

# SYSTEM ACCESSORIES

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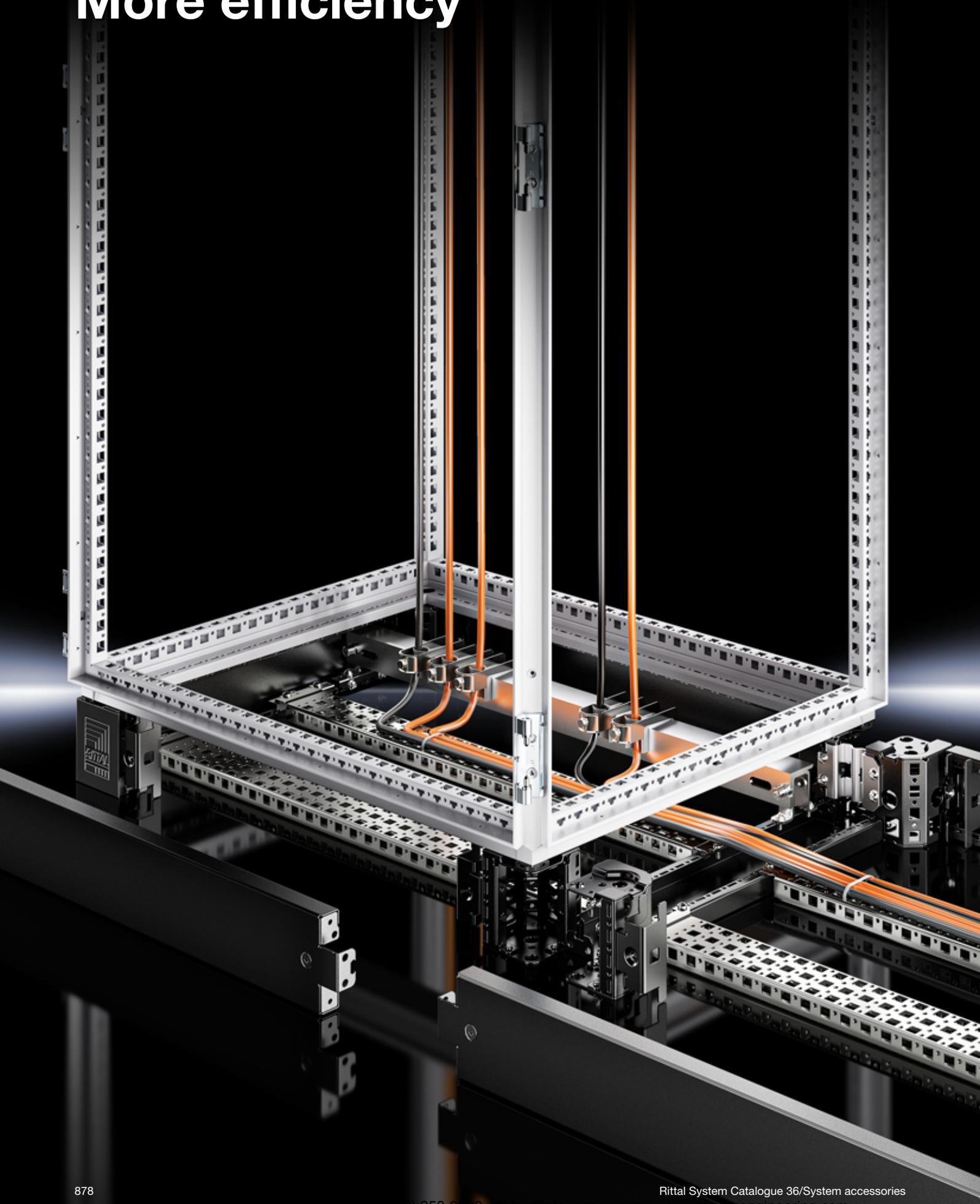
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# Base/plinth system VX – More efficiency



## Integral centring aid

- The centring aid for base/plinth mounting on the enclosure frame ensures precise positioning of the enclosure on the base/plinth



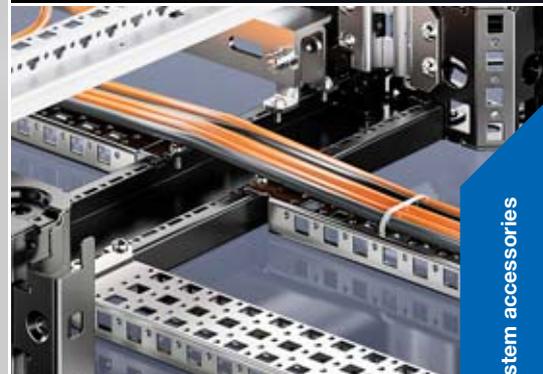
## Enclosure attachment

- The nuts integrated into the base/plinth corner piece allow screw-fastening directly from above, through the stable base frame, or from below, into the enclosure corner piece



## Simple cable management

- Secure cable attachment and cable routing via the punched section with mounting flange in the base/plinth
- Gain space with simple integration of the cable clamping rail and C rail for secure, user-friendly cable routing



# Base/plinth

## Base/plinth system VX

### Modular base/plinth diversity

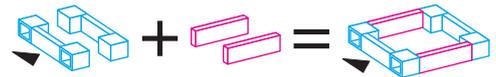
The innovative base/plinth system VX offers an unprecedented diversity of functions and applications. It combines all existing base/plinth functions in a single solution, as well as opening up many new applications. As if that isn't enough, it is also compatible with existing enclosure solutions TS, TS IT, SE, PC and IW. In short, it is a base/plinth system.

The base/plinth system VX comprises the following components:

- Base/plinth corner pieces with base/plinth trim panels, front and rear
- Base/plinth trim panels, sides

Thanks to fully symmetrical corner pieces, and by using the same base/plinth trim panels in the width and depth, the system opens up many new applications. For example, the vented trim panels and trim panels with brush strips available as accessories may now optionally be attached at the sides, or exchanged for the front/rear trim panels.

All trim panels may optionally be clipped into the corner piece, or securely screw-fastened. Depending on the application, for example, users can dispense with the trim panels between bayed enclosure suites, or a 100 mm high trim panel may be used to stabilise the base/plinth corner pieces. In combination with its extensive range of accessories, and thanks to its compatibility with enclosure accessories, the base/plinth system VX offers almost infinite possibilities in terms of siting, transportation, cable routing, cable attachment and base/plinth configuration.



One Model No. for the **base/plinth corner pieces with base/plinth trim panels, front and rear**

One Model No. for the **base/plinth trim panels, sides**

One complete **base/plinth VX**

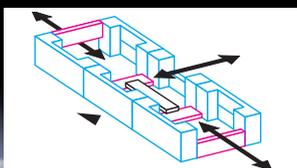
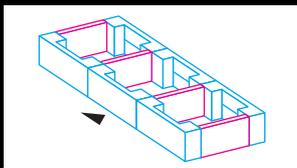
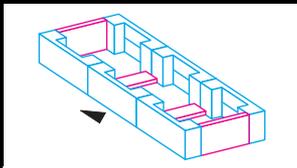
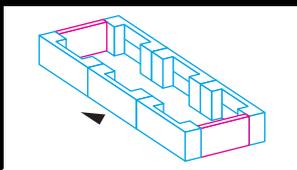
| Base/plinth height | Basic form | Cable entry options |  |  |  | Stabilisation of bayed base/plinths |
|--------------------|------------|---------------------|--|--|--|-------------------------------------|
|                    |            |                     |  |  |  |                                     |
| 100 mm             |            |                     |  |  |  |                                     |
| 200 mm             |            |                     |  |  |  |                                     |

### Configuration examples

| Order includes                                                                                                                                                                                                                                                                   | Functional benefits                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 3 packs Base/plinth corner pieces with base/plinth trim panels<br>1 pack Base/plinth trim panels, sides, 200 mm high                                                                                                                                                             | Continuous cable chamber                                                                    |
| 3 packs Base/plinth corner pieces with base/plinth trim panels<br>1 pack Base/plinth trim panels, sides, 200 mm high<br>1 pack Base/plinth trim panels, sides, 100 mm high<br>1 pack Baying brackets, internal (8617.500, packs of 6)<br>4 pc(s). are required for this solution | Additional stability during transportation with base/plinth trim panels rotated through 90° |
| 3 packs Base/plinth corner pieces with base/plinth trim panels<br>2 packs Base/plinth trim panels, sides, 200 mm high                                                                                                                                                            | Shielding of the base/plinths from one another                                              |

Other options:

- Cable entry at the side by fitting a 100 mm base/plinth trim panel with brush strip
- Cable entry from the rear by dismantling one or more trim panels from the base/plinth corner pieces and replacing them with trim panels with brush strips
- Cable routing in the base/plinth by using punched sections with mounting flanges on the base/plinth trim panels



# Base/plinth

## Base/plinth system VX

### Base/plinth corner pieces with base/plinth trim panels, front and rear

#### Sheet steel

for VX, VX IT, VX SE, TE, TopConsole, one-piece console, PC, IW

High-load capacity base/plinth corner pieces with moulded self-positioning to the enclosure, may be used with or without trim panels depending on the application. Large openings in the corner piece for optimum access to the screw-fastening point, may be concealed with a plastic corner and baying cover.

#### Material:

- Base/plinth corner piece: Sheet steel
- Base/plinth trim panel, front/rear: Sheet steel
- Corner and baying cover: Plastic

#### Colour:

- RAL 9005

#### 100 mm high supply includes:

- 4 base/plinth corner pieces, 100 mm high
- 4 corner covers
- 1 baying cover
- 2 base/plinth trim panels, front/rear, 100 mm high
- Assembly parts

#### 200 mm high supply includes:

- 4 base/plinth corner pieces, 200 mm high
- 4 corner covers
- 1 baying cover
- 1 base/plinth trim panel, front/rear, 200 mm high
- 2 base/plinth trim panels, front/rear, 100 mm high
- Assembly parts

#### 100 mm high

| For enclosure width mm | Model No. |
|------------------------|-----------|
| 300                    | 8640.000  |
| 400                    | 8640.001  |
| 600                    | 8640.002  |
| 800                    | 8640.003  |
| 850                    | 8640.004  |
| 1000                   | 8640.005  |
| 1100                   | 8640.006  |
| 1200                   | 8640.007  |
| 1600                   | 8640.008  |
| 1800                   | 8640.009  |

#### 200 mm high

| For enclosure width mm | Model No. |
|------------------------|-----------|
| 300                    | 8640.020  |
| 400                    | 8640.021  |
| 600                    | 8640.022  |
| 800                    | 8640.023  |
| 1000                   | 8640.024  |
| 1200                   | 8640.025  |
| 1600                   | 8640.026  |
| 1800                   | 8640.027  |



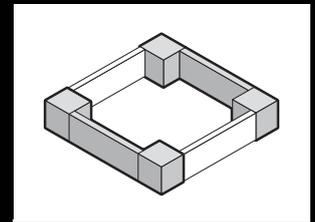
#### Also required:

- Base/plinth trim panels, sides, to finish off a unit, for additional stabilisation between base/plinths, or for interior configuration, see page 882



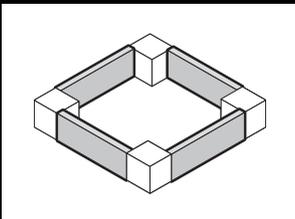
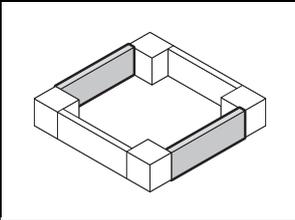
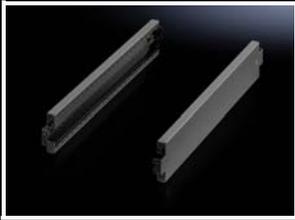
#### Accessories:

- Base/plinth trim panels with brush strip, see page 882
- Base/plinth trim panels, vented, see page 883
- Base/plinth installation bracket, see page 885
- Levelling component for base/plinth, see page 886
- Base mounting plate, see page 885
- Base/plinth adaptor for twin castors and levelling feet, see page 893
- Baying bracket, internal, see page 912
- Transport castors for base/plinth VX, see page 884
- C rails, see page 996



# Base/plinth

## Base/plinth system VX



### Base/plinth trim panels, sides

#### Sheet steel for base/plinth VX

To finish off a base/plinth unit at the sides and for additional stabilisation or for the interior configuration of bayed base/plinths. One 200 mm high or two 100 mm high trim panels may optionally be fitted on 200 mm high base/plinths.

**Material:**  
– Sheet steel

**Colour:**  
– RAL 9005

**Supply includes:**  
– 2 base/plinth trim panels  
– Assembly parts

#### 100 mm high

| For enclosure depth mm | Model No.       |
|------------------------|-----------------|
| 300                    | <b>8640.030</b> |
| 400                    | <b>8640.031</b> |
| 500                    | <b>8640.032</b> |
| 600                    | <b>8640.033</b> |
| 800                    | <b>8640.034</b> |
| 1000                   | <b>8640.035</b> |
| 1200                   | <b>8640.036</b> |

#### 200 mm high

| For enclosure depth mm | Model No.       |
|------------------------|-----------------|
| 300                    | <b>8640.040</b> |
| 400                    | <b>8640.041</b> |
| 500                    | <b>8640.042</b> |
| 600                    | <b>8640.043</b> |
| 800                    | <b>8640.044</b> |
| 1000                   | <b>8640.045</b> |
| 1200                   | <b>8640.046</b> |

#### + Accessories:

– Base/plinth installation bracket, see page 885

#### ↔ Possible alternative:

– Base/plinth trim panels with brush strip, see page 882  
– Base/plinth trim panels, vented, see page 883

### Base/plinth trim panels with brush strip

#### Sheet steel for base/plinth VX

For cable entry in the base/plinth. With a base/plinth height of 200 mm, one or two trim panels with brush strips may optionally be used. Thanks to the complete symmetry of the base/plinth system VX, the trim panels with brush strip may either be fitted at the front, rear or side on the base/plinth corner piece.

**Material:**  
– Base/plinth trim panels: Sheet steel  
– Brush strip: Plastic, self-extinguishing

**Colour:**  
– RAL 9005

**Supply includes:**  
– 2 base/plinth trim panels with brush strip  
– Assembly parts

| For enclosure width/depth mm | Model No.       |
|------------------------------|-----------------|
| 600                          | <b>8620.092</b> |
| 800                          | <b>8620.093</b> |
| 1000                         | <b>8620.094</b> |
| 1200                         | <b>8620.095</b> |

# Base/plinth

## Base/plinth system VX

### Base/plinth trim panels, vented

#### Sheet steel for base/plinth VX

For venting the enclosure via the base/plinth. Specifically in applications such as power distribution where the enclosure gland plates are not used, this can be used to achieve a higher air throughput inside the enclosure. Various solutions to raise the roof and special roof plates with vent openings are also available for enclosure venting. With a 200 mm base/plinth height, one or two vented trim panels may optionally be used. Thanks to the complete symmetry of the base/plinth system VX, the vented trim panels may either be fitted at the front, rear or side on the base/plinth corner piece.

#### Material:

- Sheet steel

#### Colour:

- RAL 9005

#### Supply includes:

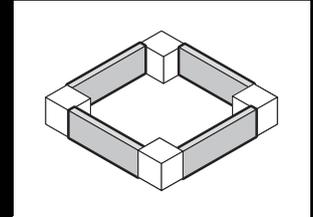
- 2 base/plinth trim panels, vented
- Assembly parts for mounting on the base/plinth corner piece

| For enclosure width/depth mm | Model No. |
|------------------------------|-----------|
| 600                          | 8620.090  |
| 800                          | 8620.091  |



#### Accessories:

- Filter mat, see page 883
- Base/plinth installation bracket, see page 885
- Spacers for lifting the roof, see page 964
- Roof plate with vent holes, see page 961



### Filter mat

#### for base/plinth trim panel, vented

The filter mat is simply inserted into the trim panel from the rear.

#### Supply includes:

- 1 pack = 2 rolls, length 2 m each, may be shortened to required length

| Packs of | Model No. |
|----------|-----------|
| 1 pc(s). | 8620.100  |



### Baying cover

#### for VX base/plinth

To neatly close the gap between two bayed base/plinths and it is required to close the gap at the rear when baying three or more base/plinths.

#### Material:

- Plastic ABS, halogen-free

#### Colour:

- RAL 9005

#### Note:

- A baying cover is already included as standard with the supply of base/plinth corner pieces with base/plinth trim panels, front and rear

| Height mm | Packs of  | Model No. |
|-----------|-----------|-----------|
| 100       | 10 pc(s). | 8620.010  |
| 200       | 10 pc(s). | 8620.011  |



# Base/plinth

## Base/plinth system VX



### Cable chamber

#### for VX, VX SE

With integral system punchings for individual system accessories.

Height: 200 mm

#### Material:

- Sheet steel

#### Colour:

- RAL 7035

#### Supply includes:

- 1 frame
- 2 trim panels front/rear
- Assembly parts for mounting on the enclosure

| For enclosures |          | Packs of | Model No.       |
|----------------|----------|----------|-----------------|
| Width mm       | Depth mm |          |                 |
| 400            | 500      | 1 pc(s). | <b>8600.455</b> |
| 400            | 600      | 1 pc(s). | <b>8600.465</b> |
| 600            | 500      | 1 pc(s). | <b>8600.655</b> |
| 600            | 600      | 1 pc(s). | <b>8600.665</b> |
| 800            | 500      | 1 pc(s). | <b>8600.855</b> |
| 800            | 600      | 1 pc(s). | <b>8600.865</b> |
| 1200           | 500      | 1 pc(s). | <b>8600.255</b> |
| 1200           | 600      | 1 pc(s). | <b>8600.265</b> |



#### Accessories:

- Side panels for cable chamber, see page 884



### Side panel

#### for cable chamber

Height: 200 mm

#### Material:

- Sheet steel

#### Colour:

- RAL 7035

#### Supply includes:

- 2 side panels
- Assembly parts

| For enclosure depth mm | Packs of | Model No.       |
|------------------------|----------|-----------------|
| 500                    | 2 pc(s). | <b>8600.510</b> |
| 600                    | 2 pc(s). | <b>8600.520</b> |



### Transport castors

#### for VX base/plinth

For locating onto the base/plinth corner piece, 100 or 200 mm high.

#### Load capacity:

- Maximum permissible load per twin castor: 750 N

#### Colour:

- RAL 9005

#### Supply includes:

- 4 twin castors, 2 x with, 2 x without locks

| Floor clearance mm | Model No.       |
|--------------------|-----------------|
| 100                | <b>8100.700</b> |



#### Accessories:

- Base/plinth trim panels, sides, sheet, for stabilisation, see page 882
- Base/plinth trim panels, sides, stainless steel, for stabilisation, see page 887

# Base/plinth

## Base/plinth system VX

### Base mounting plate

for base/plinth VX, base/plinth AX and base/plinth, complete

For attaching the base/plinth to the floor.  
For assembly screws up to 12 mm Ø.

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

| Packs of  | Model No. |
|-----------|-----------|
| 10 pc(s). | 2817.000  |



### Base/plinth installation bracket

for VX base/plinth

For configuring the base/plinth with punched sections with mounting flanges or cable clamp rails. To fit 100 and 200 mm high base/plinth trim panels in sheet steel and stainless steel.

**Material:**

- Stainless steel 1.4301 (AISI 304)

**Supply includes:**

- 2 installation brackets
- 2 mounting brackets for cable clamp rail
- Assembly parts

**Note:**

- For interior installation on upright base/plinth trim panels
- For base/plinth trim panels rotated through 90°, the installation bracket is not needed, because in this position, the system punchings of the base/plinth trim panels may be used directly

| For base/plinth trim panel Height mm | Packs of | Model No. |
|--------------------------------------|----------|-----------|
| 100                                  | 2 pc(s). | 8620.400  |
| 200                                  | 2 pc(s). |           |

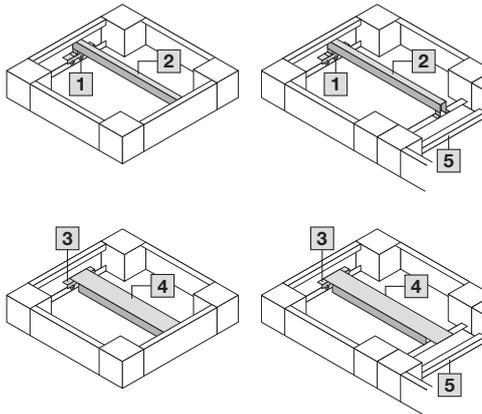


**Accessories:**

- Punched section with mounting flange, 23 x 64 mm, see page 991
- Punched section with mounting flange, 23 x 89 mm, see page 991
- Cable clamp rail, see page 1059

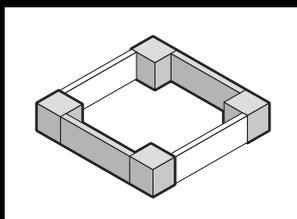


- 1 Installation bracket with mounting bracket for cable clamp rail
- 2 Cable clamp rail
- 3 Installation bracket
- 4 Punched section with mounting flange, 23 x 89 mm
- 5 Base/plinth trim panel, rotated through 90°



# Base/plinth

## Base/plinth system VX



### Levelling component

#### for VX base/plinth

For retrospective levelling on uneven floors at the installation site up to a maximum of 15 mm. Installed through the base/plinth corner piece. Adjusted using a hex spanner, width across flats 19 mm.

#### Benefits:

- A door offset caused by uneven flooring can be corrected
- Installed on the assembled enclosure, i.e. no need to plan levelling in advance

#### Load capacity:

- Max. admissible load: 2500 N per levelling component (check the load capacity of the floor)

#### Supply includes:

- Assembly parts

| For base/plinth height mm | Packs of | Model No.       |
|---------------------------|----------|-----------------|
| 100                       | 4 pc(s). | <b>8100.710</b> |
| 200                       | 4 pc(s). | <b>8100.711</b> |

### Base/plinth corner pieces with base/plinth trim panels, front and rear

#### Stainless steel for VX, VX SE, PC

High-load capacity base/plinth corner pieces with moulded self-positioning to the enclosure, may be used with or without trim panels depending on the application. Large openings in the corner piece for optimum access to the screw-fastening point, may be concealed with a plastic corner and baying cover.

#### Material:

- Base/plinth corner piece: Stainless steel 1.4301 (AISI 304)
- Base/plinth trim panel, front/rear: Stainless steel 1.4301 (AISI 304 steel)
- Corner and baying cover: Plastic

#### Surface finish:

- Trim panel: Grain size 400

#### 100 mm high supply includes:

- 4 base/plinth corner pieces, 100 mm high
- 4 corner covers
- 1 baying cover
- 2 base/plinth trim panels, front/rear, 100 mm high
- Assembly parts

#### 200 mm high supply includes:

- 4 base/plinth corner pieces, 200 mm high
- 4 corner covers
- 1 baying cover
- 1 base/plinth trim panel, front/rear, 200 mm high
- 2 base/plinth trim panels, front/rear, 100 mm high
- Assembly parts

| For enclosure width mm | Height mm | Model No.       |
|------------------------|-----------|-----------------|
| 600                    | 100       | <b>8620.050</b> |
| 800                    | 100       | <b>8620.051</b> |
| 1000                   | 100       | <b>8620.052</b> |
| 1200                   | 100       | <b>8620.053</b> |
| 600                    | 200       | <b>8620.060</b> |
| 800                    | 200       | <b>8620.061</b> |
| 1000                   | 200       | <b>8620.062</b> |
| 1200                   | 200       | <b>8620.063</b> |



#### Also required:

- Base/plinth trim panels, sides, to finish off a unit, for additional stabilisation between base/plinths, or for interior configuration, see page 887



#### Accessories:

- Base/plinth installation bracket, see page 885
- Levelling component for base/plinth, see page 886
- Base mounting plate, see page 885
- Base/plinth adaptor for twin castors and levelling feet, see page 893
- Transport castors for base/plinth, see page 884
- C rails, see page 996

# Base/plinth

## Base/plinth system VX

### Base/plinth trim panels, sides

#### Stainless steel for base/plinth VX

To finish off a base/plinth unit at the sides and for additional stabilisation or for the interior configuration of bayed base/plinths. One 200 mm high or two 100 mm high trim panels may optionally be fitted on 200 mm high base/plinths.

#### Material:

- Stainless steel 1.4301 (AISI 304)

#### Surface finish:

- Brushed, grain size 400

#### Supply includes:

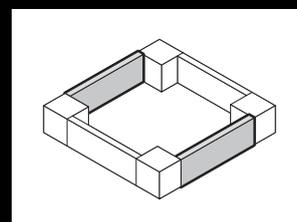
- 2 base/plinth trim panels
- Assembly parts

| For enclosure depth<br>mm | Height<br>mm | Model No.       |
|---------------------------|--------------|-----------------|
| 400                       | 100          | <b>8620.070</b> |
| 500                       | 100          | <b>8620.071</b> |
| 600                       | 100          | <b>8620.072</b> |
| 400                       | 200          | <b>8620.080</b> |
| 500                       | 200          | <b>8620.081</b> |
| 600                       | 200          | <b>8620.082</b> |



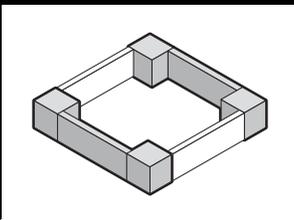
#### Accessories:

- Base/plinth installation bracket, see page 885



# Base/plinth

## Base/plinth system AX

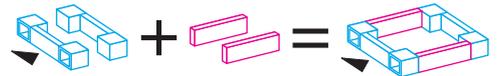


### Modular base/plinth diversity

The innovative base/plinth system AX offers an unprecedented diversity of functions and applications.

The base/plinth system AX comprises the following components:

- Base/plinth corner pieces with base/plinth trim panels, front and rear
- Base/plinth trim panels, sides



One Model No. for the **base/plinth corner pieces with base/plinth trim panels, front and rear**

One Model No. for the **base/plinth trim panels, sides**

One complete **base/plinth AX**

| Base/plinth height | Basic form | Cable entry options |  |  |  | Stabilisation of bayed base/plinths |  |
|--------------------|------------|---------------------|--|--|--|-------------------------------------|--|
|                    |            |                     |  |  |  |                                     |  |
| 100 mm             |            |                     |  |  |  |                                     |  |
| 200 mm             |            |                     |  |  |  |                                     |  |

### Base/plinth corner pieces with base/plinth trim panels, front and rear

#### Sheet steel for AX, AX IT

Base/plinth corner pieces with large opening for optimum access to the screw-fastening point, may be concealed with a plastic corner cover.

#### Material:

- Base/plinth corner piece: Sheet steel
- Base/plinth trim panel, front/rear: Sheet steel
- Corner cover: Plastic

#### Colour:

- RAL 9005

#### 100 mm high supply includes:

- 4 base/plinth corner pieces, 100 mm high
- 4 corner covers
- 2 base/plinth trim panels, front/rear, 100 mm high
- Assembly parts

#### 200 mm high supply includes:

- 4 base/plinth corner pieces, 200 mm high
- 4 corner covers
- 1 base/plinth trim panel, front/rear, 200 mm high
- 2 base/plinth trim panels, front/rear, 100 mm high
- Assembly parts

#### 100 mm high

| For enclosure width mm | Model No.       |
|------------------------|-----------------|
| 600                    | <b>2820.061</b> |
| 800                    | <b>2820.081</b> |
| 1000                   | <b>2820.101</b> |
| 1200                   | <b>2820.121</b> |

#### 200 mm high

| For enclosure width mm | Model No.       |
|------------------------|-----------------|
| 600                    | <b>2820.062</b> |
| 800                    | <b>2820.082</b> |
| 1000                   | <b>2820.102</b> |
| 1200                   | <b>2820.122</b> |



#### Also required:

- Side base/plinth trim panels, to finish off a base/plinth unit at the end or for interior configuration of the base/plinth, see page 889



#### Accessories:

- Base mounting plate, see page 885

# Base/plinth

## Base/plinth system AX

### Base/plinth trim panel, sides

#### Sheet steel for base/plinth AX

To finish off a base/plinth unit at the sides or for the interior configuration of the base/plinth.

One 200 mm high or two 100 mm high trim panels may optionally be fitted on 200 mm high base/plinths.

#### Material:

- Sheet steel

#### Colour:

- RAL 9005

#### Supply includes:

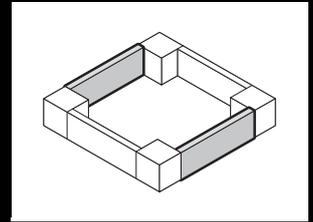
- 2 base/plinth trim panels
- Assembly parts

#### 100 mm high

| For enclosure depth<br>mm | Model No.       |
|---------------------------|-----------------|
| 300                       | <b>2820.310</b> |
| 400                       | <b>2820.410</b> |

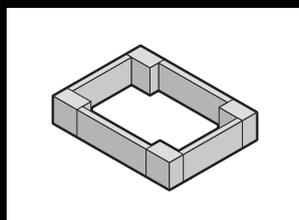
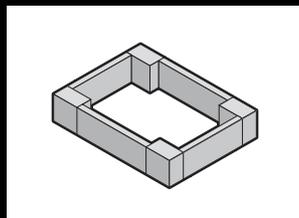
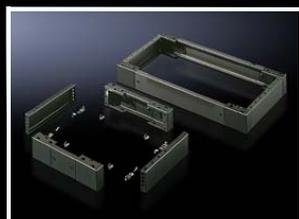
#### 200 mm high

| For enclosure depth<br>mm | Model No.       |
|---------------------------|-----------------|
| 300                       | <b>2820.320</b> |
| 400                       | <b>2820.420</b> |



# Base/plinth

## Base/plinth



### Base/plinth, complete

#### Sheet steel for TP universal console

Trim panels, front and rear with fitted corner pieces and side trim panels.

Height: 100 mm

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 7022

#### Supply includes:

- 4 corner pieces
- 2 trim panels, front/rear
- 2 trim panels, side
- Mounting accessories for mounting on the enclosure

| For consoles |          | Base/plinth depth mm | Model No.       |
|--------------|----------|----------------------|-----------------|
| Width mm     | Depth mm |                      |                 |
| 600          | 500      | 450                  | <b>2807.200</b> |

#### + Accessories:

- Fastening bolt, see page 891
- Base mounting plate, see page 885

### Base/plinth, complete

#### Stainless steel for one-piece console, stainless steel

Height: 100 mm

Where necessary, 2 base/plinths may be installed one above the other.

#### Material:

- Stainless steel 1.4301 (AISI 304)

#### Surface finish:

- Brushed

#### Supply includes:

- 2 trim panels, front/rear
- 2 trim panels, side
- Mounting accessories for mounting on the enclosure

| For enclosures / consoles |          | Model No.       |
|---------------------------|----------|-----------------|
| Width mm                  | Depth mm |                 |
| 600                       | 400      | <b>2865.000</b> |
| 800                       | 400      | <b>2869.000</b> |
| 1000                      | 400      | <b>2867.000</b> |
| 1200                      | 400      | <b>2870.000</b> |

#### + Accessories:

- Levelling feet HD, see page 223

### Base/plinth, static

#### for PC, IW

Design-coordinated with the enclosures, height 100 mm, with front projection.

#### Material:

- Sheet steel, 2.0 mm

#### Colour:

- RAL 7035
- Design component, front: RAL 7015

#### Supply includes:

- 1 design component, front
- 1 base/plinth component, rear
- 2 base/plinth trim panels, side

| For depth mm | Packs of | Model No.       |
|--------------|----------|-----------------|
| 600          | 1 pc(s). | <b>8800.920</b> |

#### + Accessories:

- Twin castors 7495.000, see page 893
- Levelling feet 4612.000, see page 892
- Fastening bolt 2819.000, see page 891

# Base/plinth

## Base/plinth

### Fastening bolts

#### for base/plinth, complete and base/plinth, static

For mounting on base/plinth trim panels, side. The lockable fastening bolt allows the installation of cable clamp rails. Tighten with hex spanner, width across flats 19 mm.

#### Material:

- Hexagonal steel

#### Surface finish:

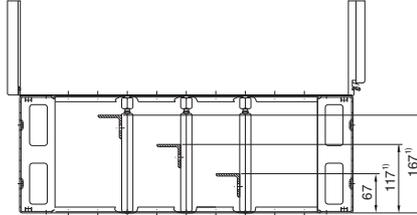
- Zinc-plated

| For base/plinth trim panel<br>Height mm | Packs of  | Model No.       |
|-----------------------------------------|-----------|-----------------|
| 100                                     | 10 pc(s). | <b>2819.000</b> |
| 200                                     | 10 pc(s). | <b>2819.200</b> |

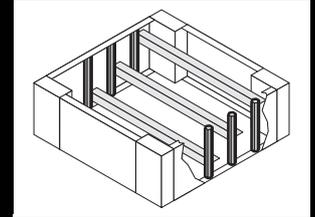


#### Accessories:

- Cable clamp rail, see page 1059



<sup>1)</sup> Only for height 200 mm



### Cross member

#### adjustable for VX, VX SE, TP, PC, IW

To increase stability, adjustable to the enclosure depth.

Height: 70 mm

To increase stability, the cross member is positioned below the base frame of the enclosure and protrudes 138 mm at the front and rear. For deeper enclosures, the rear part may be extended and screw-fastened again. For screw-fastening to the floor and enclosure with mounting hole at the sides, front and rear. The castors and levelling feet may be secured to the welded nuts M12.

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 7015

| For enclosure depth<br>mm | Model No.       |
|---------------------------|-----------------|
| 400                       | <b>8601.450</b> |
| 500                       |                 |
| 600                       | <b>8601.680</b> |
| 800                       |                 |



#### Accessories:

- Twin castors 6148.000, 7495.000, see page 893
- Levelling feet 4612.000, see page 892



#### Assembly instruction:

- Ensure sufficient stability to prevent the enclosure from tipping over



### Base/plinth

#### for FlatBox

For attachment purposes, the base/plinth may be mounted on the pre-existing thread in the base area of the FlatBox. There is a rear recess provided for cable entry.

#### Material:

- Sheet steel

#### Surface finish:

- Powder-coated

#### Colour:

- RAL 7035

#### Supply includes:

- 4 levelling feet
- Assembly parts

| For base area |             | Height<br>mm | Packs<br>of | Model No.       |
|---------------|-------------|--------------|-------------|-----------------|
| Width<br>mm   | Depth<br>mm |              |             |                 |
| 600           | 600         | 50           | 1 pc(s).    | <b>7507.750</b> |
| 700           | 700         | 50           | 1 pc(s).    | <b>7507.755</b> |



# Base

## Base



### Levelling feet

#### for VX, VX IT, VX SE, PC, IW

To compensate for height differences with floor irregularities. Mounting thread M12.

#### Load capacity:

- Max. admissible load: approx. 3000 N per levelling foot

| For enclosure   | Levelling range mm | Packs of | Model No.       |
|-----------------|--------------------|----------|-----------------|
| Sheet steel     | 18 – 43            | 4 pc(s). | <b>4612.000</b> |
| Stainless steel | 55 – 125           | 4 pc(s). | <b>8100.780</b> |



#### Also required:

- For mounting on the base/plinth:  
Base/plinth adaptor, see page 893



### Levelling feet

#### with internal adjustment, for VX IT

To compensate for floor irregularities. When used in the mounting bracket, the levelling feet are moved inwards to allow convenient operation from inside the enclosure so that the enclosure is easily levelled, even retrospectively.

#### Load capacity:

- Max. admissible static load: 6500 N per levelling foot

#### Supply includes:

- 4 levelling feet, M12, with TX30 hex socket drive
- 4 mounting brackets
- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 4 pc(s). | <b>5301.326</b> |

#### Note:

- Use levelling foot 4612.000 and base/plinth adaptor 8100.770 for mounting on the VX base/plinth



### Levelling feet

#### for FlatBox M10 x 20 mm

For screw-fastening onto the enclosure base when used as a floor-standing or desktop enclosure. Width across flats 17, mounting thread multi-tooth 30.

#### Load capacity:

- Max. admissible static load:  
5500 N per levelling foot  
700 N per enclosure

| Packs of | Model No.       |
|----------|-----------------|
| 4 pc(s). | <b>7507.740</b> |

### Levelling feet

for VX, VX SE, PC  
85 – 115 mm high

For mounting on enclosures, for easier floor cleaning and to compensate for floor irregularities ±15 mm.

**Load capacity:**

- Max. admissible load: 3,500 N per levelling foot

**Material:**

- Stainless steel 1.4301 (AISI 304)

**Supply includes:**

- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 4 pc(s). | <b>2859.000</b> |



### Twin castors

Mounting thread M12 x 20.

For:

- Baying enclosure system VX
- Network/server racks VX IT
- Free-standing enclosure system VX SE
- PC enclosure system
- Pedestal base plate
- Pedestal 6106.200/6106.300
- TopConsole pedestals
- Industrial Workstation
- Data Rack

**Supply includes:**

- Packs of 4 twin castors, 2 x with, 2 x without locks
- Assembly parts

|   |                                             |                                 |
|---|---------------------------------------------|---------------------------------|
|   | Maximum admissible static load (per castor) | 75 kg                           |
| 1 | Floor clearance                             | 85 mm                           |
|   | Colour                                      | Black with grey running surface |
|   | <b>Model No.</b>                            | <b>6148.000</b>                 |

|   |                                             |                 |
|---|---------------------------------------------|-----------------|
|   | Maximum admissible static load (per castor) | 120 kg          |
| 2 | Floor clearance                             | 125 mm          |
|   | Colour                                      | Black           |
|   | <b>Model No.</b>                            | <b>7495.000</b> |

**Note:**

For mounting on the VX base/plinth, only twin castors 7495.000 may be used in combination with the base/plinth adaptor for twin castors, see page 893



### Base/plinth adaptor

for twin castors and levelling feet

For mounting twin castors and levelling feet to the base/plinth.

| Material    | Packs of | Model No.       |
|-------------|----------|-----------------|
| Sheet steel | 4 pc(s). | <b>8100.770</b> |
|             | 4 pc(s). | <b>8100.771</b> |



**Also required:**

- When fitting twin castors, side trim panels, see page 882/887, are required.



# Base

## Base



### Transport kit

#### for VX, VX IT empty enclosures

To easily transport empty enclosures to the point of use.

#### Load capacity:

- Max. static load: 2,000 N per set of castors, including enclosure

#### Supply includes:

- 4 castors
- 4 mounting brackets
- Assembly parts

| Packs of | Model No. |
|----------|-----------|
| 1 pc(s). | 5301.515  |

#### Assembly instruction:

- The base area must be open at the mounting points



### Castor module

#### for VX, VX IT

For mobile use even with preconfigured enclosures. The castor module is screw-fastened to the structure directly underneath the base frame and is suitable for transporting configured enclosures on flat ground and inside buildings. The castor modules already have pre-integrated levelling feet, allowing the enclosure to be levelled directly on site at the point of installation. The castor module can remain underneath the enclosure.

#### Load capacity:

- Max. admissible load: Static 15,000 N
- Max. admissible load: Dynamic 10,000 N

#### Supply includes:

- 1 transport module with 2 castors
- 1 transport module with 2 castors, fixed
- Assembly parts

| For enclosure width mm | Packs of | Model No. |
|------------------------|----------|-----------|
| 600                    | 2 pc(s). | 5301.516  |
| 800                    | 2 pc(s). | 5301.518  |

#### Note:

- The maximum admissible load capacity (dynamic) of 10,000 N refers to rolling over flat ground

#### Assembly instruction:

- The base area must be open at the mounting points



### Stabiliser

#### for VX IT

If required, the optional stabiliser for the VX IT may be retrofitted in situ at any time. With the front door open, simply snap onto the vertical sections of the enclosure frame and level to match the enclosure height. This enlarges the enclosure's footprint and makes it less likely to tip over when installed components are withdrawn from the enclosure or fitted in the front. It can be used as an alternative if the enclosures cannot be screw-fastened to the floor or secured in an enclosure suite. After installation, simply remove the stabiliser again. The stabiliser may be used on the enclosure frame without bottom-mounting and in combination with levelling feet or a base/plinth up to 200 mm high. The striking signal-red spray-finish draws attention to this trip hazard.

| Packs of | Model No. |
|----------|-----------|
| 2 pc(s). | 5301.325  |

#### Load capacity:

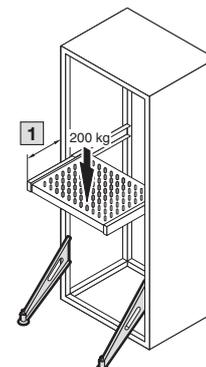
- Max. extension weight: 200 kg, point of gravity 250 mm from the enclosure front

#### Material:

- Sheet steel, spray finished in RAL 3001 (signal red)

#### Supply includes:

- 2 levelling stabilisers with fast, tool-free installation



- 1 Max. distance to the front edge of the enclosure 250 mm

### Transport castors

#### for TE

The castors may be screw-fastened in the corner areas of the base frame in place of the levelling feet. Floor clearance: 58 mm, mounting thread M10 x 20

#### Supply includes:

- Assembly parts

| Max. load capacity (static) per enclosure N | Packs of | Model No.       |
|---------------------------------------------|----------|-----------------|
| 3000                                        | 4 pc(s). | <b>7000.672</b> |



### System divider

#### for VX, VX SE

Divides the enclosure width into two zones. For example, this allows mounting plates, cable clamp rails or swing frames from 600 mm wide enclosures to be fitted in 1200 mm wide enclosures.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| Depth mm | Packs of | Model No.       |
|----------|----------|-----------------|
| 500      | 2 pc(s). | <b>8620.900</b> |
| 600      | 2 pc(s). | <b>8620.901</b> |



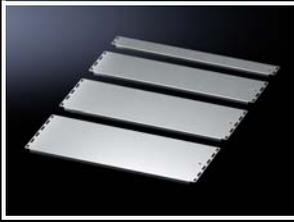
#### Accessories:

- Swing frame mounting kit, see page 1078
- Cable clamp rail, see page 1059
- Support rails 48 x 26 mm, see page 996



# Base

## Base



### Gland plates

for VX, VX IT, VX SE

For individual configuration of the floor space. Potential equalisation is provided via assembly components and earthing points.

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts

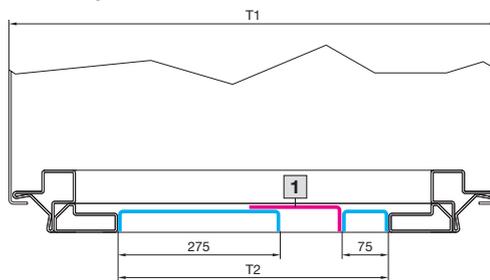
**Note:**

- At least one sliding plate is required to fully seal a base opening
- For two-door enclosures, one pack is sufficient for one half of the enclosure

**Example with enclosure depth 600 mm**

T1 (600 mm) - 148 = T2 (452 mm)

1 Sliding plate



**Accessories:**

- Sliding plate, see page 896

**For enclosure width 600 mm**

| Depth mm | Packs of | Model No.       |
|----------|----------|-----------------|
| 75       | 1 pc(s). | <b>8001.210</b> |
| 175      | 1 pc(s). | <b>8001.214</b> |
| 237.5    | 1 pc(s). | <b>8001.218</b> |
| 275      | 1 pc(s). | <b>8001.222</b> |

**For enclosure width 800 mm**

| Depth mm | Packs of | Model No.       |
|----------|----------|-----------------|
| 75       | 1 pc(s). | <b>8001.211</b> |
| 175      | 1 pc(s). | <b>8001.215</b> |
| 237.5    | 1 pc(s). | <b>8001.219</b> |
| 275      | 1 pc(s). | <b>8001.223</b> |

**For enclosure width 1000 mm**

| Depth mm | Packs of | Model No.       |
|----------|----------|-----------------|
| 75       | 1 pc(s). | <b>8001.212</b> |
| 175      | 1 pc(s). | <b>8001.216</b> |
| 237.5    | 1 pc(s). | <b>8001.220</b> |
| 275      | 1 pc(s). | <b>8001.224</b> |

**For enclosure width 1200 mm**

| Depth mm | Packs of | Model No.       |
|----------|----------|-----------------|
| 75       | 1 pc(s). | <b>8001.213</b> |
| 175      | 1 pc(s). | <b>8001.217</b> |
| 237.5    | 1 pc(s). | <b>8001.221</b> |
| 275      | 1 pc(s). | <b>8001.225</b> |



### Sliding plate

for VX, VX IT, VX SE

For variable compensation as well as a flexible opening in the base area. May be combined with gland plates.

**Sliding plate depth:**

- 65 - 115 mm

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts

| For enclosure width mm | Packs of | Model No.       |
|------------------------|----------|-----------------|
| 600                    | 1 pc(s). | <b>8001.239</b> |
| 800                    | 1 pc(s). | <b>8001.241</b> |
| 1000                   | 1 pc(s). | <b>8001.242</b> |
| 1200                   | 1 pc(s). | <b>8001.243</b> |

### Gland plate set, multi-piece, solid

#### for VX IT

Multi-piece gland plate set consisting of solid base plate modules and a sliding plate for cable entry. The solid gland plate module, depth 237.5 mm, may optionally be exchanged for gland plate module variants for cable entry.

#### Benefit:

- The sequence of individual modules may be freely selected

#### Material:

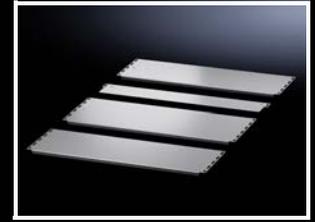
- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Gland plate set
- Sealing tape
- Assembly parts



| For enclosure width mm | For enclosure depth mm | Gland plate module, solid |              |                |              | Sliding plate depth 115 mm | Packs of | Model No.       |
|------------------------|------------------------|---------------------------|--------------|----------------|--------------|----------------------------|----------|-----------------|
|                        |                        | Depth 75 mm               | Depth 175 mm | Depth 237.5 mm | Depth 275 mm |                            |          |                 |
| 600                    | 1000                   | -                         | -            | 2              | 1            | 1                          | 1 pc(s). | <b>5301.338</b> |
| 600                    | 1200                   | -                         | -            | 4              | -            | 1                          | 1 pc(s). | <b>5301.341</b> |
| 800                    | 600                    | 1                         | 1            | -              | -            | 2                          | 1 pc(s). | <b>5301.336</b> |
| 800                    | 800                    | 1                         | -            | 2              | -            | 1                          | 1 pc(s). | <b>5301.337</b> |
| 800                    | 1000                   | -                         | -            | 2              | 1            | 1                          | 1 pc(s). | <b>5301.344</b> |
| 800                    | 1200                   | -                         | -            | 4              | -            | 1                          | 1 pc(s). | <b>5301.347</b> |

### Gland plate module, vented

#### for VX IT

For closing the base

#### Benefit:

- Large perforated section to support passive climate control of the enclosure
- Filter mat slides in from above for easy replacement

#### Gland plate depth:

- 237.5 mm

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

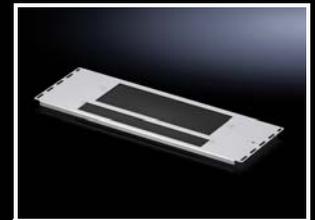
- Gland plate module, vented
- Filter mat
- Assembly parts

| For enclosure width mm | Packs of | Model No.       |
|------------------------|----------|-----------------|
| 600                    | 1 pc(s). | <b>5301.330</b> |
| 800                    | 1 pc(s). | <b>5301.331</b> |



#### Assembly instruction:

- Several gland module plates must be combined to seal the base completely in the VX IT
- The gland plate module may be combined in exchange with other base modules with a depth of 237.5 mm



### Gland plate module, one-piece, with brush strip

#### for VX IT

For targeted cable entry from below.

#### Gland plate depth:

- 237.5 mm

#### Material:

- Module plate: Sheet steel
- Brush strip: Plastic, UL 94 HB, halogen-free

#### Surface finish:

- Module plate: Zinc-plated

#### Supply includes:

- Assembly parts

| For enclosure width mm | Packs of | Model No.       |
|------------------------|----------|-----------------|
| 600                    | 1 pc(s). | <b>5301.332</b> |
| 800                    | 1 pc(s). | <b>5301.333</b> |

#### Note:

- Gland plate modules with brush strip not suitable for applications with a protection category to IEC 60 529



#### Assembly instruction:

- Several gland module plates must be combined to seal the base completely in the VX IT
- The gland plate module may be combined in exchange with other base modules with a depth of 237.5 mm



# Base

## Base



### Gland plate module, multi-piece, with brush strip, super-airtight

#### for VX IT

For targeted cable entry from below. With correct cable entry, special brush strips with alternating off-set brushes provide a more effective seal from the environment to support climate control. The two-piece design even allows retrospective fitting of the base module with the cables already installed.

#### Gland plate depth:

- 237.5 mm

#### Material:

- Module plate: Sheet steel
- Brush strip: Plastic, UL 94 HB, halogen-free

#### Surface finish:

- Module plate: Zinc-plated

#### Supply includes:

- Assembly parts

| For enclosure width mm | Packs of | Model No.       |
|------------------------|----------|-----------------|
| 600                    | 1 pc(s). | <b>5301.334</b> |
| 800                    | 1 pc(s). | <b>5301.335</b> |

#### Note:

- Gland plate modules with brush strip not suitable for applications with a protection category to IEC 60 529



#### Assembly instruction:

- Several gland module plates must be combined to seal the base completely in the VX IT
- The gland plate module may be combined in exchange with other base modules with a depth of 237.5 mm.



### Gland plate module for side cable entry

#### for VX IT

With adjustable opening and brush strips on both sides. The version which is open at the side even allows the base plate module to be retro-fitted with the cables already installed.

#### Gland plate depth:

- 237.5 mm

#### Material:

- Module plate: Sheet steel
- Brush strip: Plastic, UL 94 HB, halogen-free

#### Surface finish:

- Module plate: Zinc-plated

#### Supply includes:

- Assembly parts

| For enclosure width mm | Packs of | Model No.       |
|------------------------|----------|-----------------|
| 800                    | 1 pc(s). | <b>5301.348</b> |

#### Note:

- Gland plate modules with brush strip not suitable for applications with a protection category to IEC 60 529



#### Assembly instruction:

- Several gland module plates must be combined to seal the base completely in the VX IT
- The gland plate module may be combined in exchange with other base modules with a depth of 237.5 mm.

### Module plates

#### for TE

The base area of the TE may be varied as required using the module plates.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

#### Compensating panel design

| Width B1<br>mm | Depth T1<br>mm | For<br>enclosure<br>width mm | Model No.       |
|----------------|----------------|------------------------------|-----------------|
| 450            | 50             | 600                          | <b>7526.750</b> |
| 450            | 150            | 600                          | <b>7526.755</b> |
| 650            | 50             | 800                          | <b>7526.790</b> |
| 650            | 150            | 800                          | <b>7526.795</b> |

#### Vented design

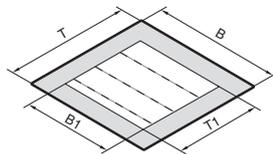
| Width B1<br>mm | Depth T1<br>mm | For<br>enclosure<br>width mm | Model No.       |
|----------------|----------------|------------------------------|-----------------|
| 450            | 200            | 600                          | <b>7526.829</b> |
| 650            | 200            | 800                          | <b>7526.834</b> |

#### Solid design

| Width B1<br>mm | Depth T1<br>mm | For<br>enclosure<br>width mm | Model No.       |
|----------------|----------------|------------------------------|-----------------|
| 450            | 200            | 600                          | <b>7526.760</b> |
| 450            | 550            | 600                          | <b>7526.770</b> |
| 450            | 750            | 600                          | <b>7526.780</b> |
| 650            | 200            | 800                          | <b>7526.800</b> |
| 650            | 550            | 800                          | <b>7526.785</b> |
| 650            | 750            | 800                          | <b>7526.820</b> |

#### Design with brush strip

| Width B1<br>mm | Depth T1<br>mm | For<br>enclosure<br>width mm | Model No.       |
|----------------|----------------|------------------------------|-----------------|
| 450            | 200            | 600                          | <b>7526.850</b> |
| 650            | 200            | 800                          | <b>7526.860</b> |



Please note the following when selecting suitable module plates:

B1 = Enclosure width (B) - 150 mm

T1 = Enclosure depth (T) - 50 mm



# Base

## Base



### Base mounting bracket

#### for VX, VX IT

To anchor the enclosure to the floor, particularly if it is top-heavy and inclined to tilt or cannot be incorporated into a suite of enclosures.

#### Material:

- Sheet steel, zinc-plated

#### Supply includes:

- Assembly parts

| Packs of | Model No. |
|----------|-----------|
| 2 pc(s). | 5301.350  |

#### Assembly instruction:

- The base area must be open at the mounting points
- Additional holes in the false base are required for mounting
- The assembly parts for connecting the enclosure to the substructure will vary according to its specific properties and are not included with the supply

### Pressure relief stopper

Especially when enclosures are exposed to changing climatic conditions, pressure differences may cause condensation to form in sealed enclosures. The integral sealing membrane in the pressure relief stopper largely prevents such pressure differences and hence eliminates condensation; additionally, it also prevents the ingress of moisture from the outside.

Installed in vertical surfaces to protect against dirt.

#### Technical specifications:

- Air permeability up to 120 litres/hour with a pressure difference of 70 mbar
- Connection thread M12 x 1.5
- For fitting in wall thicknesses up to 4 mm

| Packs of | Model No. |
|----------|-----------|
| 5 pc(s). | 2459.500  |

#### Material:

- Polyamide

#### Colour:

- Similar to RAL 9005

#### Protection category IP to IEC 60 529:

- IP X8

#### Protection category IP to DIN 40 040-9:

- IP 69K

#### Supply includes:

- Lock nut



### Condensate discharge

For reliable condensate discharge from the inside and protection against splashed water from the outside (labyrinth effect). A hole diameter of 16 mm is required (with AX sheet steel, the holes are already provided in the base).

#### Material:

- Polyamide

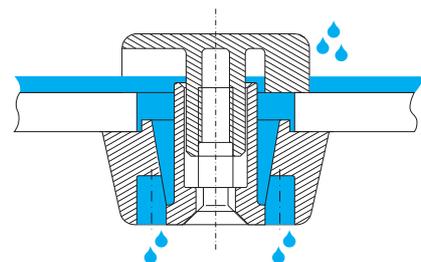
#### Colour:

- Similar to RAL 7035

#### Protection category:

- Protection from splashed water, when correctly installed at the bottom

| Packs of | Model No. |
|----------|-----------|
| 6 pc(s). | 2459.000  |



### Side panel, screw-fastened, sheet steel

#### for VX, VX IT

- Time-saving assembly thanks to clip-in side panel holders
- Automatic potential equalisation and higher EMC protection, thanks to enclosure panel holders with earthing inserts located on the inside
- Easy positioning in the height and depth with the location aid
- Simple assembly
- Earthing bolts with large, paint-free contact surface for optimum contact

#### Material:

- Sheet steel, 1.5 mm

#### Surface finish:

- Dipcoat-primed, powder-coated on the outside

#### Colour:

- RAL 7035

#### Protection category IP to IEC 60 529:

- IP 55 (in conjunction with enclosures from the VX, VX IT series)

#### Protection category NEMA:

- NEMA 12 (in conjunction with enclosures from the VX, VX IT series)

#### Supply includes:

- Assembly parts

| For enclosures |          | Packs of | Model No.       |
|----------------|----------|----------|-----------------|
| Height mm      | Depth mm |          |                 |
| 800            | 600      | 2 pc(s). | <b>8173.245</b> |
| 1200           | 500      | 2 pc(s). | <b>8115.245</b> |
| 1200           | 600      | 2 pc(s). | <b>8170.245</b> |
| 1200           | 800      | 2 pc(s). | <b>8175.245</b> |
| 1200           | 1000     | 2 pc(s). | <b>8176.245</b> |
| 1400           | 500      | 2 pc(s). | <b>8145.245</b> |
| 1600           | 500      | 2 pc(s). | <b>8165.245</b> |
| 1600           | 600      | 2 pc(s). | <b>8166.245</b> |
| 1600           | 800      | 2 pc(s). | <b>8168.245</b> |
| 1800           | 400      | 2 pc(s). | <b>8184.245</b> |
| 1800           | 500      | 2 pc(s). | <b>8185.245</b> |
| 1800           | 600      | 2 pc(s). | <b>8186.245</b> |
| 1800           | 800      | 2 pc(s). | <b>8188.245</b> |
| 2000           | 400      | 2 pc(s). | <b>8104.245</b> |
| 2000           | 500      | 2 pc(s). | <b>8105.245</b> |
| 2000           | 600      | 2 pc(s). | <b>8106.245</b> |
| 2000           | 800      | 2 pc(s). | <b>8108.245</b> |
| 2000           | 1000     | 2 pc(s). | <b>8100.245</b> |
| 2000           | 1200     | 2 pc(s). | <b>8102.245</b> |
| 2200           | 600      | 2 pc(s). | <b>8126.245</b> |
| 2200           | 800      | 2 pc(s). | <b>8128.245</b> |
| 2200           | 1000     | 2 pc(s). | <b>8120.245</b> |
| 2200           | 1200     | 2 pc(s). | <b>8122.245</b> |



#### Accessories:

- Hinge for side panel, screw-fastened, sheet steel, see page 902



### Side panel, screw-fastened, stainless steel

#### for VX

- Time-saving assembly thanks to clip-in side panel holders
- Automatic potential equalisation and higher EMC protection, thanks to enclosure panel holders with earthing inserts located on the inside
- Easy positioning in the height and depth with the location aid
- Simple assembly
- Earthing bolts with large, paint-free contact surface for optimum contact

#### Material:

- Stainless steel 1.4301 (AISI 304), 1.5 mm

#### Surface finish:

- Brushed, grain size 400

#### Protection category IP to IEC 60 529:

- IP 55 (in conjunction with enclosures from the VX series)

#### Protection category NEMA:

- NEMA 12 (in conjunction with enclosures from the VX series)

#### Supply includes:

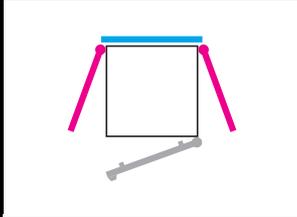
- Assembly parts

| For enclosures |          | Packs of | Model No.       |
|----------------|----------|----------|-----------------|
| Height mm      | Depth mm |          |                 |
| 1800           | 400      | 2 pc(s). | <b>8700.030</b> |
| 1800           | 500      | 2 pc(s). | <b>8700.040</b> |
| 2000           | 600      | 2 pc(s). | <b>8700.050</b> |



# Walls

## Side panels



### Hinge

#### for side panel, screw-fastened, sheet steel

The 180° opening angle allows unhindered access from the side.

#### Material:

- Die-cast zinc

#### Colour:

- RAL 7035

#### Protection category IP to IEC 60 529:

- IP 55 (in conjunction with enclosures from the VX, VX IT series)

#### Supply includes:

- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 6 pc(s). | <b>8106.260</b> |

#### Note:

- Hinge mounting (red) is only possible in the vicinity of the rear panel (blue)
- Only for use with a side panel depth of 800 mm or less

### Internal latch

#### for side panel, screw-fastened, sheet steel

Additional security is achieved via the option of latching the side panel from the inside. The side panels on the frame section are screw-fastened from the inside with latching brackets.

#### Surface finish:

- Sheet steel, zinc-plated

#### Protection category IP to IEC 60 529:

- IP 55 (in conjunction with enclosures from the VX, VX IT series)

#### Supply includes:

- 2 mounting brackets
- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 2 pc(s). | <b>5301.235</b> |



#### Assembly instruction:

- Access via the front and rear doors must be guaranteed

### Side panel, horizontally divided for VX IT

For sealing IT enclosure systems, both stand-alone and baying arrangements.

#### Benefits:

- Simple handling
- Supports tool-free installation and removal of the side wall
- Locked using security lock 3524 E
- Integral internal latch

#### Material:

- Sheet steel

#### Surface finish:

- Powder-coated

#### Colour:

- RAL 7035

#### Protection category IP to IEC 60 529:

- IP 20

#### Supply includes:

- Top piece
- Bottom piece
- 6 mounting brackets
- 2 lock components
- Assembly parts

| For enclosure height mm | For enclosure depth mm | Packs of | Model No.       |
|-------------------------|------------------------|----------|-----------------|
| 2000                    | 1000                   | 1 pc(s). | <b>5301.250</b> |
| 2000                    | 1200                   | 1 pc(s). | <b>5301.254</b> |
| 2200                    | 1000                   | 1 pc(s). | <b>5301.257</b> |
| 2200                    | 1200                   | 1 pc(s). | <b>5301.261</b> |
| 2450                    | 1000                   | 1 pc(s). | <b>5301.264</b> |
| 2450                    | 1200                   | 1 pc(s). | <b>5301.265</b> |

## Side panels

### Side panel, vertically divided for VX IT

**Benefits:**

- Simple handling
- Easy to close with snap fasteners
- Optimum access to all installed components
- Opening is only possible via internal locking elements, which requires free access via the doors, but significantly increases access security
- Individual side parts may be completely dismantled at any time without the need for tools

**Material:**

- Sheet steel

**Surface finish:**

- Powder-coated

**Colour:**

- RAL 7035

**Protection category IP to IEC 60 529:**

- IP 20

| For enclosure height mm | For enclosure depth mm | Packs of | Model No.       |
|-------------------------|------------------------|----------|-----------------|
| 2000                    | 800                    | 1 pc(s). | <b>5301.246</b> |
| 2000                    | 1000                   | 1 pc(s). | <b>5301.236</b> |
| 2000                    | 1200                   | 1 pc(s). | <b>5301.242</b> |
| 2200                    | 800                    | 1 pc(s). | <b>5301.243</b> |
| 2200                    | 1000                   | 1 pc(s). | <b>5301.244</b> |
| 2200                    | 1200                   | 1 pc(s). | <b>5301.245</b> |

**Supply includes:**

- 2 side parts
- Punched rail
- 6 hinges
- 4 quick-release fasteners
- Assembly parts



**Assembly instruction:**

- Access via the front and rear doors must be guaranteed



### Side panel for TE 8000

Simple assembly with insertion aid at the bottom and lock at the top. Earthing bolt with contact lug.

**Material:**

- Sheet steel

**Surface finish:**

- Powder-coated

**Colour:**

- RAL 7035

| For enclosure height mm | For enclosure depth mm | Packs of | Model No.       |
|-------------------------|------------------------|----------|-----------------|
| 2000                    | 800                    | 2 pc(s). | <b>7888.652</b> |
| 2000                    | 1000                   | 2 pc(s). | <b>7888.653</b> |

**Protection category IP to IEC 60 529:**

- IP 20

**Supply includes:**

- 4 cam locks including security lock 3524 E



### Corrosion protection primer

The one-component primer is suitable as corrosion protection on paint-free spots which occur due to cut-outs etc. Used to renew corrosion protection of paint-free spots in accordance with the standard IEC 61439 for low-voltage and switchgear assemblies.

**Benefits:**

- Exceptional bonding
- Passive protection from corrosion
- Very high filling force

**Colour:**

- Dark grey

|           | Contents ml | Packs of | Model No.       |
|-----------|-------------|----------|-----------------|
| Paint pen | 12          | 1 pc(s). | <b>2436.800</b> |



### Paint

For touching up and repairing powder-coated and wet-painted surfaces, air-drying.

|                    | Colour   | Model No.       |
|--------------------|----------|-----------------|
| Touch-up pen 12 ml | RAL 7035 | <b>2436.735</b> |
| Tin 1000 ml        | RAL 7035 | <b>2438.735</b> |
| Spray can 150 ml   | RAL 7035 | <b>2440.735</b> |
|                    | RAL 9005 | <b>2440.905</b> |



# Walls

## Divider panels/partitions



### Partition, one-piece, for slide-in fixing

#### for VX IT

For rack mounting, suspended between two bayed enclosures. With one Ø 40 mm hole in the left-hand and right-hand corner areas for inserting cables, conduits etc. These drilled holes may be sealed with the enclosed cover caps.

#### Benefits:

- Simply slides into position

#### Material:

- Sheet steel, zinc-plated

#### Protection category:

- IP 20 (with fitted cover caps)

#### Supply includes:

- Partition
- 2 cover caps

#### Note:

- Use baying connector, external, 3 mm
- Not suitable for use in conjunction with a baying seal
- Any baying seal that may be present must be removed prior to installation



| For enclosure height mm | For enclosure depth mm | Packs of | Model No.       |
|-------------------------|------------------------|----------|-----------------|
| 2000                    | 1000                   | 1 pc(s). | <b>5301.270</b> |
| 2000                    | 1200                   | 1 pc(s). | <b>5301.281</b> |
| 2200                    | 1000                   | 1 pc(s). | <b>5301.287</b> |
| 2200                    | 1200                   | 1 pc(s). | <b>5301.300</b> |
| 2450                    | 1000                   | 1 pc(s). | <b>5301.315</b> |
| 2450                    | 1200                   | 1 pc(s). | <b>5301.317</b> |

#### Assembly instruction:

- A baying gap of 3 mm is required to insert the partition

#### Accessories:

- Baying connector, external, 3 mm, see page 914



### Partition, vertically divided, for screw fastening

#### for VX IT

For retrospective installation/dismantling of bayed enclosures. The integrated sealing profile supports enclosure sealing for climate control or for applications with extinguisher gas. It may be fitted from the outside prior to baying the enclosure, or from the inside after baying the enclosure. As the partition is located inside the frame structure, it may be retrofitted at any time. There are no specific required baying distances between the enclosures.

#### Material:

- Sheet steel, zinc-plated

#### Supply includes:

- 2 partitioning plates
- 4 cover caps
- Punched rail
- Seal
- Assembly parts



| For enclosure height mm | For enclosure depth mm | Packs of | Model No.       |
|-------------------------|------------------------|----------|-----------------|
| 2000                    | 1000                   | 1 pc(s). | <b>5301.274</b> |
| 2000                    | 1200                   | 1 pc(s). | <b>5301.284</b> |
| 2200                    | 1000                   | 1 pc(s). | <b>5301.291</b> |
| 2200                    | 1200                   | 1 pc(s). | <b>5301.303</b> |
| 2450                    | 1000                   | 1 pc(s). | <b>5301.319</b> |
| 2450                    | 1200                   | 1 pc(s). | <b>5301.321</b> |

#### Assembly instruction:

- Assembly/removal only supported for enclosures without interior installation

#### Accessories:

- Baying connector, external, see page 912
- Baying connector, external, 3 mm, see page 914

## Divider panels/partitions

### Divider panel

#### for VX

For shielding individual enclosure cells. Thanks to the symmetry of the frame system, the divider panel can also be used at the rear. All-round, double fold for stability and to hold the seal.

#### Material:

- Sheet steel, 1.5 mm

#### Surface finish:

- Zinc-plated

#### Protection category IP to IEC 60 529:

- IP 54 (in conjunction with enclosures from the VX series)

#### Supply includes:

- Assembly parts



#### Also required:

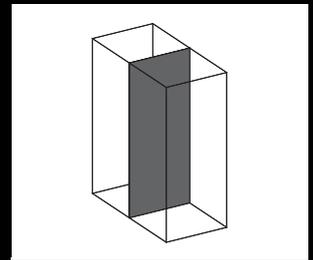
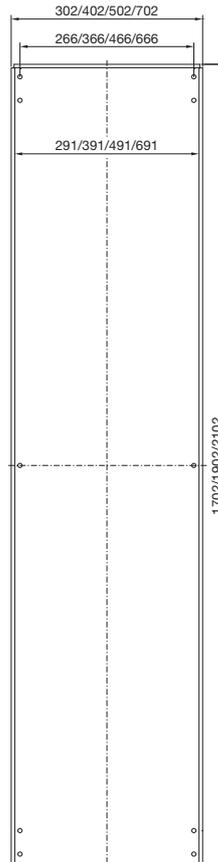
- When buying in conjunction with a divider panel:  
Baying bracket, internal 8617.500, see page 912 or  
baying connector, external 8617.502/ 8617.503, see page 912



#### Accessories:

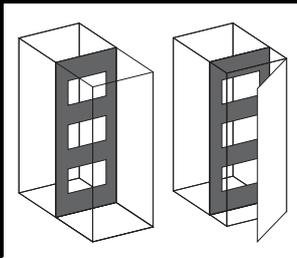
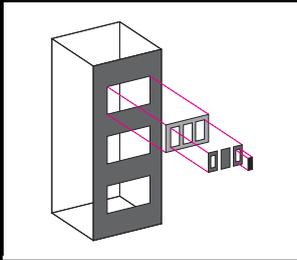
- Cover with door, see page 908

| For enclosures |          | Model No.       |
|----------------|----------|-----------------|
| Height mm      | Depth mm |                 |
| 1800           | 400      | <b>8609.200</b> |
| 1800           | 500      | <b>8609.201</b> |
| 1800           | 600      | <b>8609.202</b> |
| 2000           | 400      | <b>8609.203</b> |
| 2000           | 500      | <b>8609.204</b> |
| 2000           | 600      | <b>8609.205</b> |
| 2000           | 800      | <b>8609.206</b> |
| 2200           | 600      | <b>8609.207</b> |



# Walls

## Divider panels/partitions



### Divider panel

#### for module plates for VX

With cut-outs for the installation of module plates for connectors or for cable entry, and also for the entry of busbar systems and other installed equipment. All-round, double fold for stability and to hold the seal. The symmetry of the enclosure frame means that divider panels may also be fitted at the rear, dimensions permitting.

#### Material:

- Sheet steel, 2 mm

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Seal and assembly parts



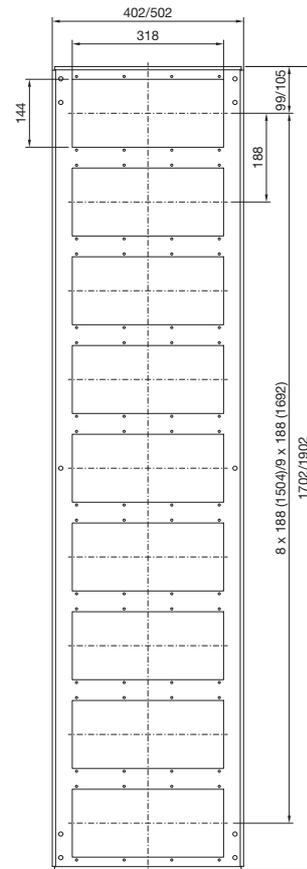
#### Also required:

- When buying in conjunction with a divider panel:  
Baying bracket, internal 8617.500, see page 912  
or  
baying connector, external 8617.502/ 8617.503,  
see page 912



#### Accessories:

- Module plates, see page 907
- Cover with door, see page 908
- Baying bracket, internal, see page 912



| For enclosures |          | Number of cut-outs | Model No.       |
|----------------|----------|--------------------|-----------------|
| Height mm      | Depth mm |                    |                 |
| 1800           | 500      | 9                  | <b>8609.210</b> |
| 1800           | 600      | 9                  | <b>8609.211</b> |
| 2000           | 500      | 10                 | <b>8609.212</b> |
| 2000           | 600      | 10                 | <b>8609.213</b> |

## Divider panels/partitions

### Module plates

**Material:**

- Sheet steel, 2 mm

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Seal

| Version                | Cut-outs | Packs of | Model No.       |
|------------------------|----------|----------|-----------------|
| Solid                  | -        | 1 pc(s). | <b>8609.160</b> |
| For 16-pole connectors | 4        | 1 pc(s). | <b>8609.150</b> |
| For 24-pole connectors | 4        | 1 pc(s). | <b>8609.140</b> |
| For cable entry        | 1        | 1 pc(s). | <b>8609.170</b> |
| With cable sleeve      | 1        | 1 pc(s). | <b>8609.390</b> |

**Solid**

For sealing unused cut-outs. Easily machined for individual cut-outs.

**For 16/24-pole connectors**

With cut-outs to accommodate connectors.



**Accessories:**

- Adaptor, cover plate, see page 908
- Connector gland for connector cut-outs, see page 1046
- Sealing frame, modular, see page 1048

**For cable entry**

For the entry of pre-assembled cables. Sealed, secure routing is achieved via adjustable angle brackets with inserted foam cable clamp strip. Fixed bracket, punched, for cable clamping.



**Accessories:**

- Cable tie for fast assembly 2597.000, see page 1061

**With cable sleeve**

For cable diameters from 10 to 65 mm. The flexible grommet adapts to the cable's bending radius



# Walls

## Divider panels/partitions



### Adaptor

#### for connector cut-outs

For using connectors with varying numbers of poles.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Seal and assembly parts

| For reduction       | Packs of | Model No.       |
|---------------------|----------|-----------------|
| From 24 to 16 poles | 5 pc(s). | <b>2479.000</b> |
| From 24 to 10 poles | 5 pc(s). | <b>2480.000</b> |
| From 24 to 6 poles  | 5 pc(s). | <b>2481.000</b> |
| From 16 to 10 poles | 5 pc(s). | <b>2401.000</b> |
| From 16 to 6 poles  | 5 pc(s). | <b>2402.000</b> |



### Cover plate

#### for connector cut-outs

For unused cut-outs.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Seal and assembly parts

| For              | Packs of  | Model No.       |
|------------------|-----------|-----------------|
| 24-pole cut-outs | 20 pc(s). | <b>2477.000</b> |
| 16-pole cut-outs | 20 pc(s). | <b>2478.000</b> |



### Cover with door

#### for VX

- To protect and finish off connectors or other installed equipment.
- Optional cable entry from above or below

#### Material:

- Cover: Sheet steel, 1.5 mm
- Door: Sheet steel, 2.0 mm

#### Surface finish:

- Dipcoat-primed, powder-coated on the outside

#### Colour:

- RAL 7035

#### Protection category IP to IEC 60 529:

- IP 55 (in conjunction with enclosures from the VX series)

#### Protection category to NEMA:

- NEMA 12 (in conjunction with enclosures from the VX series)

#### Supply includes:

- Cover
- Door with locking rod and double-bit lock insert
- 2 trim panels for top and bottom

| For enclosures |          | Model No.       |
|----------------|----------|-----------------|
| Height mm      | Depth mm |                 |
| 2000           | 500      | <b>8609.220</b> |
| 2000           | 600      | <b>8609.230</b> |



#### Accessories:

- Lock inserts, type G, see page 941
- Comfort handle VX, see page 937
- 180° hinge, see page 951

## Isolator door locking

### Isolator door cover

#### for VX

Including main door latch for safety locking of enclosures and bayed enclosure suites in accordance with UL regulations. Tested in conjunction with actuator lever for master switch from the following companies:

- Allen Bradley
- Square D
- General Electric
- Eaton
- Siemens

A detailed overview of types can be found on the Internet, together with the product description.

#### Benefits:

- Meets the requirements of UL 508 A
- In conjunction with the operating mechanism, adjacent door lock and interconnecting rods, these requirements are also met for bayed combinations
- Optional mounting on the left or right of the enclosure. With this cover, all single-door bayed enclosures may be configured as isolator door enclosures. The complete installation surface of the enclosure is retained.
- In conjunction with the integrated mounting plate infill, the mounting surface of the main enclosure can be enlarged by up to 14%.
- Two cut-outs for actuator levers on the front, for internal mounting at varying heights

#### Protection category IP to IEC 60 529:

- IP 55 (in conjunction with enclosures from the VX series)

#### Protection category to NEMA:

- NEMA 12 (in conjunction with enclosures from the VX series)

#### Supply includes:

- Main door lock, cover plate and assembly parts

#### Note:

- Cover may only be mounted on a single-door enclosure with tubular door frame



#### Also required:

For bayed suites:

- Operating mechanism 4912.000, for enclosure with isolator door cover and additionally in every fourth adjacent enclosure, see page 910
- Adjacent door latch 4911.000, 4911.100, for every adjacent enclosure, see page 910
- Interconnecting rods, for every adjacent enclosure in the appropriate enclosure width, see page 910
- Side panel, screw-fastened, see page 901



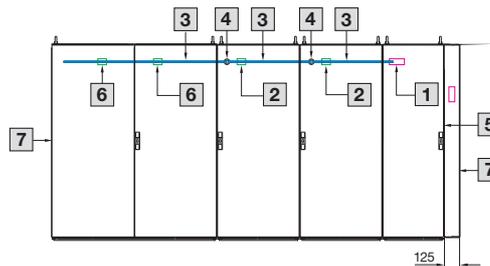
#### Accessories:

- Mounting plate infill, see page 971

#### Isolator door lock

- 1 Operating mechanism
- 2 Adjacent door latch (single-door)
- 3 Interconnecting rod
- 4 Connection component
- 5 Main door latch
- 6 Adjacent door latch (two-door)
- 7 Side panel, screw-fastened

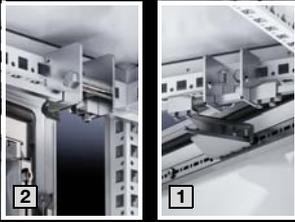
Installation to the right of the enclosure



| Width mm | Height mm | Depth mm | Material thickness mm | Surface finish          | Colour   | Model No.       |                                   |
|----------|-----------|----------|-----------------------|-------------------------|----------|-----------------|-----------------------------------|
|          |           |          |                       |                         |          | Sheet steel     | Stainless steel 1.4301 (AISI 304) |
| 103      | 1800      | 400      | 1.5                   | Powder-coated           | RAL 7035 | <b>8951.020</b> | -                                 |
| 103      | 1800      | 400      | 1.5                   | Brushed, grain size 400 | -        | -               | <b>8952.020</b>                   |
| 103      | 1800      | 500      | 1.5                   | Powder-coated           | RAL 7035 | <b>8951.030</b> | -                                 |
| 103      | 1800      | 500      | 1.5                   | Brushed, grain size 400 | -        | -               | <b>8952.030</b>                   |
| 103      | 2000      | 500      | 1.5                   | Powder-coated           | RAL 7035 | <b>8951.000</b> | -                                 |
| 103      | 2000      | 500      | 1.5                   | Brushed, grain size 400 | -        | -               | <b>8952.000</b>                   |
| 103      | 2000      | 600      | 1.5                   | Powder-coated           | RAL 7035 | <b>8951.010</b> | -                                 |
| 103      | 2000      | 600      | 1.5                   | Brushed, grain size 400 | -        | -               | <b>8952.010</b>                   |

# Walls

## Isolator door locking



### Door latch for bayed enclosure suites

In conjunction with the isolator door cover, the requirements of UL 508 A are also met for bayed enclosure suites. Depending on the baying combination, different components will be required; refer to the assembly sketch on page 909.

**Note:**

- The door latch for bayed enclosure suites can also be used without the isolator door cover and in combination with commercially available master switches. In this way, adjacent doors cannot be opened until the main door has been opened.

**1 Operating mechanism**

Fitted in the enclosure with main switch and additionally in every fourth adjacent enclosure

|                     | Packs of | Model No.       |
|---------------------|----------|-----------------|
| Operating mechanism | 1 pc(s). | <b>4912.000</b> |

**2 Adjacent door latch**

Installation in adjacent enclosure

| Adjacent door latch for | Packs of | Model No.       |
|-------------------------|----------|-----------------|
| Single-door enclosures  | 1 pc(s). | <b>4911.000</b> |
| Two-door enclosures     | 1 pc(s). | <b>4911.100</b> |

**3 Interconnecting rods**

To extend locking from the main enclosure to the adjacent enclosures of a bayed suite. One interconnecting rod corresponding to the width of the enclosure is required for each adjacent enclosure.

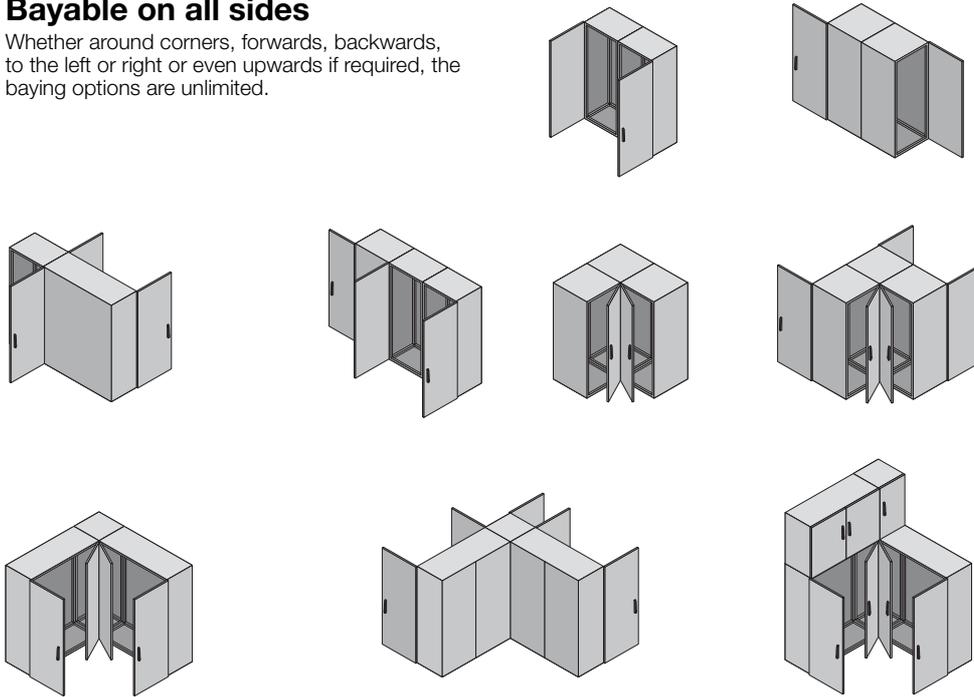
| For enclosure width mm | Packs of  | Model No.       |
|------------------------|-----------|-----------------|
| 600                    | 10 pc(s). | <b>4916.000</b> |
| 800                    | 10 pc(s). | <b>4918.000</b> |
| 1200                   | 10 pc(s). | <b>4920.000</b> |

# Baying system

## Baying

### Bayable on all sides

Whether around corners, forwards, backwards, to the left or right or even upwards if required, the baying options are unlimited.

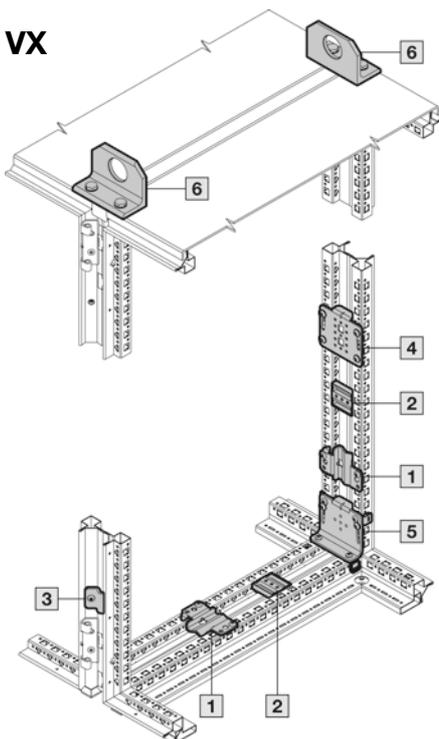


### Overview of bayed VX/VX IT

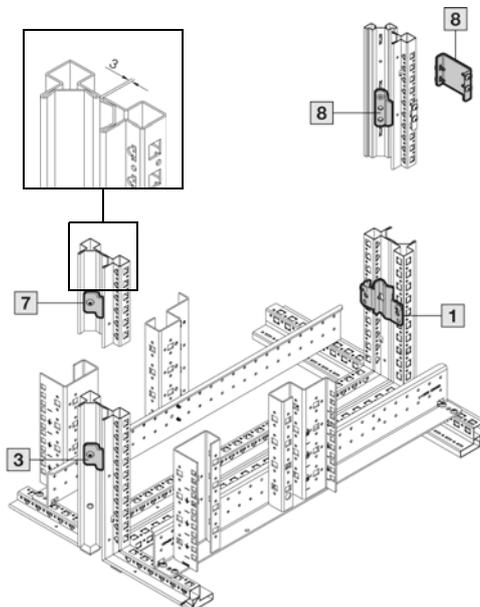
- |                                             |                                              |
|---------------------------------------------|----------------------------------------------|
| 1 Baying bracket, internal, for VX/VX IT    | 5 Angular baying bracket for VX              |
| 2 Baying block, internal, for VX            | 6 Combination angle for VX                   |
| 3 Baying connectors, external, for VX/VX IT | 7 Baying connector, external, 3 mm for VX IT |
| 4 Quick-fit baying clamp for VX             | 8 Baying connector for VX IT/TS IT           |

**Notes** on the transportation of bayed VX enclosures, see page 915.

### VX



### VX IT



# Baying system

## Baying



### Baying bracket, internal

#### for VX, VX IT

- Fast, secure installation either from the front or from the side
- For all-round installation on the baying point
- May be flexibly positioned to avoid collisions with installed equipment
- Also suitable for baying base/plinth components

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Baying bracket, internal
- Baying seal
- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 6 pc(s). | <b>8617.500</b> |

#### Note:

- 1 pack is sufficient for one baying joint
- Transportation of bayed enclosures, see page 915

#### Possible alternative:

- Baying block, internal, see page 912
- Baying connector, external 8617.502, see page 912



### Baying block, internal

#### for VX, VX IT

- Side mounting creates a flush surface to the profile, suitable for top mounting, thus avoiding collisions with installed equipment
- For all-round installation on the baying point

#### Material:

- Die-cast zinc

#### Supply includes:

- Baying block, internal
- Baying seal
- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 6 pc(s). | <b>8617.501</b> |

#### Note:

- 1 pack is sufficient for one baying joint

#### Possible alternative:

- Baying bracket, internal, see page 912
- Baying connector, external 8617.502, see page 912



### Baying connector, external

#### for VX, VX IT

For mounting on the vertical enclosure sections from the outside.

#### Supply includes:

- Baying connector, external
- Baying seal
- Assembly parts

| Material                          | Packs of | Model No.       |
|-----------------------------------|----------|-----------------|
| Sheet steel, zinc-plated          | 6 pc(s). | <b>8617.502</b> |
| Stainless steel 1.4301 (AISI 304) | 6 pc(s). | <b>8617.503</b> |

#### Note:

- 1 pack is sufficient for one baying joint

#### Possible alternative:

- Baying bracket, internal, see page 912
- Baying block, internal, see page 912

# Baying system

## Baying

### Quick-fit baying clamps

#### for VX

- For all-round installation on the baying point
- May be flexibly positioned to avoid collisions with installed equipment
- Simply tighten the screws, tap in the quick-fit baying clamp, pull the enclosures together and secure
- Additional mounting level between bayed enclosures, e.g. for mounting cable ducts

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| Packs of | Model No. |
|----------|-----------|
| 6 pc(s). | 8617.506  |

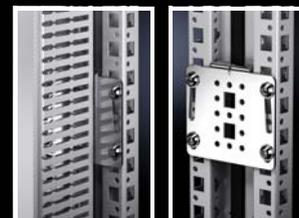
#### Note:

- 1 pack is sufficient for one baying joint



#### Accessories:

- Baying seal 8617.507, see page 914



### Angular baying bracket

#### for VX

For stable connection in the corners of bayed enclosures. Perfectly suited for aligning enclosures with one another on uneven floors

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| Packs of | Model No. |
|----------|-----------|
| 4 pc(s). | 8617.508  |

#### Note:

- 1 pack is sufficient for one baying joint
- To achieve the required protection category and transportation stability, further baying connectors should be used halfway up the enclosure



### Baying connector, external, 9 mm

#### for VX IT/VX IT with side panels

For retrospective baying of enclosures with side panels.

#### Material:

- Sheet steel

#### Colour:

- RAL 7035

#### Supply includes:

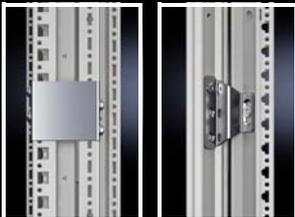
- Assembly parts

| Packs of | Model No. |
|----------|-----------|
| 4 pc(s). | 7824.540  |



# Baying system

## Baying



### Baying connector, external, 3 mm

for VX IT

#### Applications:

- For retrospectively exchanging racks or LCP devices
- For retroactive installation/removal of partitions, one-piece, slide-in

#### Benefits:

- Supports retroactive exchange of racks or LCP devices
- Guarantees the required baying distance of 3 mm for carrying out retrospective modifications

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- 4 baying connectors, external, 3 mm
- Baying seal, 8 m
- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>5301.310</b> |

#### Note:

- Within a bayed enclosure suite, the external dimension is increased by 2 mm per baying point
- The maximum achievable IP protection category to IEC 60 529 is IP 20.

### Baying clamp

for VX IT/TS IT

For baying enclosures in the VX IT series to TS IT.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- 4 baying connectors, external
- 2 baying connectors, internal
- Baying seal, 8 m
- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>5301.312</b> |

#### Note:

- The maximum achievable IP protection category to IEC 60 529 is IP 54

### Baying seal

for VX

May be used individually for baying on all existing enclosure sizes. The seal sits securely around the section edge, and is easily removed at any time without leaving any residues. It is also reusable.

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>8617.507</b> |

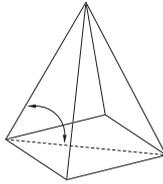
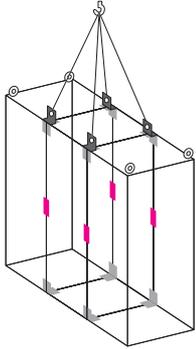
#### Material:

- EPDM

#### Supply includes:

- 8 m

### Notes on the transportation of bayed VX enclosures



When transporting bayed enclosures, for example, the baying bracket, internal (8617.500), the baying block, internal (8617.501) or the baying connector, external (8617.502 and 8617.503) may be used in conjunction with the combination angle (4540.000). The load capacity with a cable pull angle of 60° is as follows:  
 for the left-hand enclosure 7000 N,  
 for the central enclosure 14000 N,  
 for the right-hand enclosure 7000 N.

The cable pull angle between the roof plate and the cable has a significant influence on the total permissible load. The cable pull angle must not be less than 45°, and ideally not less than 60°.

### Combination angle

#### for VX

For optimum distribution of tensile forces during transportation of bayed enclosures by crane.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 4 pc(s). | <b>4540.000</b> |



#### Accessories:

- Baying cover, top, see page 915



### Baying cover, top

#### for VX, VX IT

A cover with two end caps may additionally be clipped over the seal between the two enclosures. This prevents dirt and liquid from accumulating on the baying seal.

#### Supply includes:

- Assembly parts

#### Note:

- May also be fitted in the width with enclosure suites bayed back-to-back
- May be cut to required length, if necessary.
- May also be used in conjunction with dust guard trim, see page 959

| For enclosure depth mm | Packs of | Plastic RAL 7035 | Stainless steel 1.4301 (AISI 304) | Model No.       |
|------------------------|----------|------------------|-----------------------------------|-----------------|
| 400                    | 1 pc(s). | ■                | -                                 | <b>8800.845</b> |
| 500                    | 1 pc(s). | ■                | -                                 | <b>8800.855</b> |
| 600                    | 1 pc(s). | ■                | -                                 | <b>8800.865</b> |
| 800                    | 1 pc(s). | ■                | -                                 | <b>8800.885</b> |
| 400                    | 1 pc(s). | -                | ■                                 | <b>8700.140</b> |
| 500                    | 1 pc(s). | -                | ■                                 | <b>8700.150</b> |
| 600                    | 1 pc(s). | -                | ■                                 | <b>8700.160</b> |
| 1000 - 1200            | 1 pc(s). | ■                | -                                 | <b>8800.825</b> |



# Baying system

## Baying



### Baying cover, vertical for VX

To balance out the gap between the side panels when baying back-to-back. For enclosure height 2200 mm, or may be cut to length individually for lower heights.

**Material:**

- Cover section: Plastic

**Colour:**

- RAL 7035

**Supply includes:**

- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 2 pc(s). | <b>8800.875</b> |



**Also required:**

- Baying connector, external, 8617.502, see page 912



### Baying kit, VX25 to TS 8

For extending existing TS 8 bayed enclosure suites with VX25 enclosures.

**Material:**

- Baying connector: Sheet steel

**Supply includes:**

- 8 baying connectors
- 1 seal
- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>8617.505</b> |



### Baying kit for TE/TE

For connecting individual enclosures into bayed suites at the sides. The enclosures are connected between the base and roof frame.

**Benefits:**

- Baying of TE 8000 to TE 7000 enclosures is supported

| Width mm | Packs of | Model No.       |
|----------|----------|-----------------|
| 55       | 4 pc(s). | <b>7888.640</b> |

**Material:**

- Sheet steel, spray-finished

**Colour:**

- RAL 7035

**Supply includes:**

- Assembly parts



### Baying kit for AX, KX

For baying AX/KX enclosures. The additional cut-outs are to be provided by the customer.

Special screws and nuts

- For fast, simple assembly without thread-tapping
- Compression of the seal is limited to a pre-defined level, to ensure a long-lasting, permanent seal between enclosures

Seal, self-adhesive

- Comprised of bayable sealing elements and corner pieces, for individual adaptation to various enclosure sizes

One pack is sufficient for a baying joint up to H x D = 800 x 350 mm.

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>1199.100</b> |

**Supply includes:**

- Special screws and nuts
- Sealing elements, self-adhesive



# Doors/locks

## Door variants

### Glazed door

#### for VX

Instead of a sheet steel door or rear panel.

#### Material:

- Frame: Extruded aluminium section
- Viewing window: Single-pane safety glass, 3 mm

#### Surface finish:

- Powder-coated

#### Colour:

- Frame and corner pieces: RAL 7035
- Viewing window (printed mask on the inside): RAL 9005

#### Protection category IP to IEC 60 529:

- IP 55

#### Supply includes:

- Glazed door
- Locking rod with double-bit lock insert and lock plate
- 180° hinges, 4 pc(s).

| For enclosures |           | Model No.       |
|----------------|-----------|-----------------|
| Width mm       | Height mm |                 |
| 600            | 1800      | <b>8618.000</b> |
| 800            | 1800      | <b>8618.010</b> |
| 600            | 2000      | <b>8618.020</b> |
| 800            | 2000      | <b>8618.030</b> |
| 600            | 2200      | <b>8618.040</b> |
| 800            | 2200      | <b>8618.050</b> |



#### Also required:

- When mounting instead of the rear panel or double door: Lock components for frame 8618.110, see page 917



#### Accessories:

- Comfort handle VX, see page 937
- Lock inserts, type G, see page 941



### Lock components

For retrofitting a glazed door or sheet steel door in place of a rear panel.

#### Material:

- Die-cast zinc

#### Supply includes:

- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 4 pc(s). | <b>8618.110</b> |



### Lockable and adjacent door

#### for VX

For example, if two 400 mm doors are used instead of one 800 mm wide door in order to comply with escape routes. May also be fitted instead of an 800 mm wide rear panel.

#### Material:

- Sheet steel

#### Surface finish:

- Dipcoat-primed, powder-coated on the outside

#### Colour:

- RAL 7035

#### Protection category IP to IEC 60 529:

- IP 55

#### Supply includes:

- 2 doors, including tubular door frame, hinges and lock components

| For enclosures |           | Model No.       |
|----------------|-----------|-----------------|
| Width mm       | Height mm |                 |
| 800            | 2000      | <b>8618.120</b> |



#### Accessories:

- Comfort handle VX, see page 937
- Lock inserts, type G, see page 941



# Doors/locks

## Door variants



### Glazed door

#### for VX SE

Instead of a sheet steel door.

#### Material:

- Frame: Extruded aluminium section
- Corner pieces: Die-cast zinc
- Viewing window: Single-pane safety glass, 3 mm

#### Surface finish:

- Powder-coated

#### Colour:

- Frame and corner pieces: RAL 7035
- Viewing window (printed mask on the inside): RAL 9005

#### Protection category IP to IEC 60 529:

- IP 55

#### Supply includes:

- Glazed door
- Locking rod with double-bit lock insert and lock plate
- 180° hinges, 4 pc(s).

| For enclosures |           | Model No.       |
|----------------|-----------|-----------------|
| Width mm       | Height mm |                 |
| 600            | 1800      | <b>8610.685</b> |
| 800            | 1800      | <b>8610.885</b> |
| 600            | 2000      | <b>8610.605</b> |
| 800            | 2000      | <b>8610.805</b> |



#### Accessories:

- Comfort handle, see page 938
- Lock inserts, version F, see page 941

### Handle adaptor

The handle adaptor compensates for the design chamfer in the door profile to enable installation of the comfort handle.

#### Material:

- Plastic

#### Supply includes:

- 1 adaptor plate
- 1 bolt to extend the screw-on dome
- 2 assembly screws

#### For glazed door VX SE

| Colour   | Model No.       |
|----------|-----------------|
| RAL 7035 | <b>8611.080</b> |

#### For designer door IW and PC, bottom door

| Colour   | Model No.       |
|----------|-----------------|
| RAL 7035 | <b>8611.300</b> |

### Glazed door VX IT

#### for Automatic Door Opening (ADO)

With integral vent valves for automated opening function in the event of an alarm or power failure. The glazed door for the Automatic Door Opening System replaces the standard VX IT door.

#### Benefits:

- Supports remote control via the CMC III system
- Tinted single-pane safety glass ensures a high standard of safety
- Combining the vent flaps with a tubular door frame creates exceptional stability
- The vent flaps only protrude into the escape route by 200 mm
- No adjustment to the lock systems system required
- Manual opening of the door without any effect on the vent flaps
- Automatic opening of the vent valves in the event of a power failure

#### Functional principle:

- Activation via CMC III door control module (DCM)
- Automatic, mechanical opening of the integral vertical ventilation flaps in an emergency if the cooling system fails or an extinguishing system is activated
- Depending on the room volume and temperature, the air inside the room is used for emergency cooling, or the extinguisher gas may flow directly into the IT enclosures

#### Technical specifications:

- Rated voltage: 24 V DC
- Rated current: 780 mA
- External projection of the vent flap: 200 mm (when opened)
- Internal projection of the mechanism: 52.5 mm
- Connection cable from door catch: 2.5 m
- Door hinged on the right, may be swapped to the left
- Spring damper for flap opening
- Magnets for fixing the flaps
- Valves are open at zero current

#### Protection category IP to IEC 60 529:

- IP 20 for solid vent flaps

#### Supply includes:

- Glazed door with comfort handle VX for profile half-cylinders
- Connection cable

#### Note:

- Other colours (RAL 9005) and sizes (H = 2200 mm) available on request



#### Also required:

- Door control module, see page 817
- CMC III power pack, see page 818



#### Accessories:

- CMC III Processing Unit/Compact with connection, power supply and mounting accessories, from page 804
- Lock inserts, see page 942



| Design                                        | Material                                                                                 | Colour   | Dimensions |           | Packs of | Model No.       |
|-----------------------------------------------|------------------------------------------------------------------------------------------|----------|------------|-----------|----------|-----------------|
|                                               |                                                                                          |          | Width mm   | Height mm |          |                 |
| One-part, with vent flaps                     | Frame: Extruded aluminium section<br>Viewing window:<br>Single-pane safety glass, tinted | -        | 600        | 2000      | 1 pc(s). | <b>7030.262</b> |
|                                               |                                                                                          |          | 800        | 2000      | 1 pc(s). | <b>7030.263</b> |
| One-part, with vent flaps                     | Frame: Sheet steel<br>Viewing window:<br>Single-pane safety glass, tinted                | RAL 7035 | 600        | 2000      | 1 pc(s). | <b>7030.272</b> |
|                                               |                                                                                          |          | 800        | 2000      | 1 pc(s). | <b>7030.273</b> |
| Two-part, vertically divided, with vent flaps | Frame: Sheet steel<br>Viewing window:<br>Single-pane safety glass, tinted                | RAL 7035 | 600        | 2000      | 1 pc(s). | <b>7030.282</b> |
|                                               |                                                                                          |          | 800        | 2000      | 1 pc(s). | <b>7030.283</b> |

# Doors/locks

## Door variants



### Glazed aluminium door, one-piece

#### for VX IT

To replace existing doors.

#### Material/surface finish:

- Frame: Extruded aluminium section
- Vertical extrusion: Aluminium, anodised
- Horizontal extrusion: Aluminium, spray finished
- Viewing window: Single-pane safety glass, 3 mm

#### Colour:

- Comfort handle VX, hinges, horizontal extrusion: RAL 9005
- Vertical profile: silver coloured

#### Protection category IP to IEC 60 529:

- IP 55

#### Supply includes:

- Door with comfort handle VX for profile half-cylinders with security lock 3524 E
- 3 x 180° hinges, fitted
- Assembly parts

#### Note:

- Door opening angle for stand-alone siting: max. 240°
- Door opening angle when baying: max. 105°



| For enclosures |           | Packs of | Model No.       |
|----------------|-----------|----------|-----------------|
| Width mm       | Height mm |          |                 |
| 800            | 2000      | 1 pc(s). | <b>5301.423</b> |

#### Assembly instruction:

- For a door opening angle of 180° when baying, a 180° baying hinge is required, see page 951



### Glazed sheet steel door, vertically divided

#### for VX IT

To replace existing doors. With underlaid viewing panel and 4-point locking rod. The divided design allows room-optimised siting of the enclosures coupled with the best possible access, thanks to a reduced distance between the individual bayed enclosure suites.

#### Material:

- Frame: Sheet steel
- Viewing window: Single-pane safety glass, 3 mm

#### Surface finish:

- Powder-coated

#### Colour:

- Frame: RAL 7035
- Comfort handle VX, hinges: RAL 9005

#### Protection category IP to IEC 60 529:

- IP 55

#### Supply includes:

- Door, vertically divided, with comfort handle VX for profile half-cylinders with security lock 3524 E, right
- 4 x 180° hinges, fitted on each half of the door
- Assembly parts

#### Note:

- Door opening angle for stand-alone siting: max. 240°
- Door opening angle when baying: max. 160°



| For enclosures |           | Packs of | Model No.       |
|----------------|-----------|----------|-----------------|
| Width mm       | Height mm |          |                 |
| 800            | 2000      | 1 pc(s). | <b>5301.437</b> |
| 800            | 2200      | 1 pc(s). | <b>5301.438</b> |

#### Assembly instruction:

- For a door opening angle of 180° when baying, a 180° baying hinge is required, see page 951

# Doors/locks

## Door variants

### Sheet steel door, one-piece, solid

#### for VX IT

To replace existing doors.

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- Door: RAL 7035
- Comfort handle VX: RAL 9005

#### Protection category IP to IEC 60 529:

- IP 55

#### Supply includes:

- Door with comfort handle VX for profile half-cylinders with security lock 3524 E
- 4 x 130° hinges, inside
- Assembly parts

#### Note:

- Door opening angle for stand-alone siting: max. 165°
- Door opening angle when baying: max. 110°

| For enclosures |           | Packs of | Model No.       |
|----------------|-----------|----------|-----------------|
| Width mm       | Height mm |          |                 |
| 800            | 2000      | 1 pc(s). | <b>5301.540</b> |
| 800            | 2200      | 1 pc(s). | <b>5301.542</b> |



#### Assembly instruction:

- For a door opening angle of 180° when baying, a 180° baying hinge is required, see page 951



### Sheet steel door, vertically divided, solid

#### for VX IT

To replace existing doors. Thanks to the minimal rotation radius of the individual doors, the distance between individual bayed enclosure suites may be reduced.

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- Door: RAL 7035
- Comfort handle VX, hinges: RAL 9005

#### Protection category IP to IEC 60 529:

- IP 20

#### Supply includes:

- Door, vertically divided, with comfort handle VX for profile half-cylinders with security lock 3524 E, right
- 3 x 180° hinges, fitted on each half of the door
- Assembly parts

#### Note:

- Door opening angle for stand-alone siting: max. 240°
- Door opening angle when baying: max. 160°

| For enclosures |           | Packs of | Model No.       |
|----------------|-----------|----------|-----------------|
| Width mm       | Height mm |          |                 |
| 600            | 2000      | 1 pc(s). | <b>5301.602</b> |
| 800            | 2000      | 1 pc(s). | <b>5301.612</b> |



#### Assembly instruction:

- For a door opening angle of 180° when baying, a 180° baying hinge is required, see page 951



# Doors/locks

## Door variants



### Aluminium/sheet steel door, vented

#### for VX IT

To replace existing doors. The vented surface area is approx. 85% perforated.

#### Material/surface finish:

- Frame: Extruded aluminium section
- Vent grille: Sheet steel
- Vertical extrusion: Aluminium, anodised
- Horizontal extrusion: Aluminium, spray finished

#### Colour:

- Comfort handle VX, hinges, horizontal extrusion, vent grille: RAL 9005
- Vertical profile: silver coloured

#### Supply includes:

- Door with comfort handle VX for profile half-cylinders with security lock 3524 E
- 3 x 180° hinges, fitted
- Assembly parts

#### Note:

- Door opening angle for stand-alone siting: max. 240°
- Door opening angle when baying: max. 105°

| For enclosures |           | Packs of | Model No.       |
|----------------|-----------|----------|-----------------|
| Width mm       | Height mm |          |                 |
| 600            | 2200      | 1 pc(s). | <b>5301.450</b> |
| 800            | 2000      | 1 pc(s). | <b>5301.446</b> |
| 800            | 2200      | 1 pc(s). | <b>5301.453</b> |

#### Assembly instruction:

- For a door opening angle of 180° when baying, a 180° baying hinge is required, see page 951

### Sheet steel door, one-piece, vented

#### for VX IT

To replace existing doors. The vented surface area is approx. 85% perforated.

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- Door: RAL 7035
- Comfort handle VX: RAL 9005

#### Protection category IP to IEC 60 529:

- IP 20

#### Supply includes:

- Door with comfort handle VX for profile half-cylinders with security lock 3524 E
- 3 x 130° hinges, fitted on the inside
- Assembly parts

#### Note:

- Door opening angle for stand-alone siting: max. 165°
- Door opening angle when baying: max. 110°

| For enclosures |           | Packs of | Model No.       |
|----------------|-----------|----------|-----------------|
| Width mm       | Height mm |          |                 |
| 600            | 2000      | 1 pc(s). | <b>5301.561</b> |
| 800            | 2000      | 1 pc(s). | <b>5301.571</b> |

#### Assembly instruction:

- For a door opening angle of 180° when baying, a 180° baying hinge is required, see page 951

## Door variants

### Sheet steel door, vertically divided, vented

#### for VX IT

To replace existing doors. The vented surface area is approx. 85% perforated.

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- Door: RAL 7035
- Comfort handle VX, hinges: RAL 9005

#### Protection category IP to IEC 60 529:

- IP 20

#### Supply includes:

- Door, vertically divided, with comfort handle VX for profile half-cylinders with security lock 3524 E, right
- 3 x 180° hinges, fitted on each half of the door
- Assembly parts

#### Note:

- Door opening angle for stand-alone siting: max. 240°
- Door opening angle when baying: max. 160°

| For enclosures |           | Packs of | Model No.       |
|----------------|-----------|----------|-----------------|
| Width mm       | Height mm |          |                 |
| 800            | 2000      | 1 pc(s). | <b>5301.652</b> |



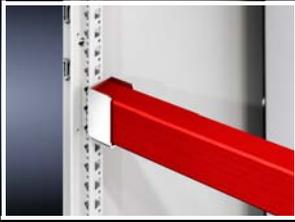
#### Assembly instruction:

- For a door opening angle of 180° when baying, a 180° baying hinge is required, see page 951



# Doors/locks

## Door variants

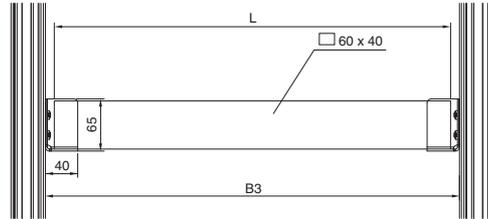


### Protective bar

As an alternative to a door, e.g. in sealed switch rooms. Prevents people from falling into the open enclosure frame. Easily removable for maintenance purposes. For 1200 mm enclosure width; may be shortened or divided for other sizes.

**Material:**

- Wood, spray-finished, RAL 3000



| For enclosure width mm | Length mm | Packs of | Model No.       |
|------------------------|-----------|----------|-----------------|
| 1200                   | 1090      | 1 pc(s). | <b>8801.010</b> |

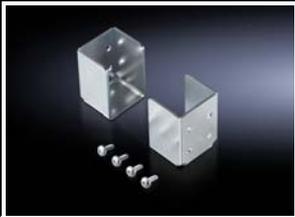
| Enclosure width mm | Clearance between the enclosure frame (B3) mm | Length of protective bar (L) mm |
|--------------------|-----------------------------------------------|---------------------------------|
| 400                | 311                                           | 290 <sup>1)</sup>               |
| 600                | 511                                           | 490 <sup>1)</sup>               |
| 800                | 711                                           | 690 <sup>1)</sup>               |
| 1000               | 911                                           | 890 <sup>1)</sup>               |
| 1200               | 1111                                          | 1090                            |

<sup>1)</sup> The protective bar 8801.010 (1090 mm) will need to be shortened



**Also required:**

- Holder 8801.000, see page 924



### Holder

**for protective bar**

For mounting on the vertical section. The protective bar is simply inserted.

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly screws

| Packs of | Model No.       |
|----------|-----------------|
| 2 pc(s). | <b>8801.000</b> |



### Variable modular climate control concept

Instead of an enclosure door in a 600 mm/800 mm/1200 mm wide and 1800 mm/2000 mm high VX enclosure, section doors with integral cooling module may be retrofitted without major assembly work.



**Possible alternative:**

- Modular climate control concept, see page 506/507

## Installation accessories for modular front design

### Modular front design

Suitable for 400 to 1200 mm wide enclosures instead of a door or rear panel.

The partial doors with and without viewing panels for the baying enclosure system VX25, see page 132/133, may be combined with one another as required. A trim panel is required at the top and bottom in each case.

The requirements for your individual front design and the considerations which must be taken into account are illustrated on the sample configuration opposite.

**Note:**

Installation accessories for modular front design, see page 926 – 927

- 1 Front trim panel, top
- 2 Front trim panel, bottom
- 3 Partial door with viewing window
- 4 Partial door



# Doors/locks

## Installation accessories for modular front design



### Partial door

#### for VX

The door may be optionally hinged on the right or left. The partial door is attached to the enclosure with no drilling required. Standard double-bit lock insert may be exchanged for lock inserts, type A.

#### Material:

- Partial door: Sheet steel, 2 mm
- Viewing window: 3 mm single-pane safety glass

#### Surface finish:

- Textured paint

#### Colour:

- RAL 7035

#### Protection category IP to IEC 60 529:

- IP 54

#### Supply includes:

- Cross member, hinges and lock components
- Assembly parts

#### Note:

- Opening angle of partial doors max. 130°



#### Also required:

- Front trim panel, top, see page 927 or top-hinged trim panel, see page 928
- Front trim panel, bottom, see page 927



#### Accessories:

- Mini-comfort handle AX for partial door from a height of 200 mm, see page 940
- Lock inserts, type A, see page 941
- Perforated mounting strip, see page 927

#### For enclosure width 400 mm

| Height mm | With viewing window | Number of locks | Packs of | Model No.       |
|-----------|---------------------|-----------------|----------|-----------------|
| 200       | -                   | 1               | 1 pc(s). | <b>9682.142</b> |
| 300       | -                   | 1               | 1 pc(s). | <b>9682.143</b> |
| 400       | -                   | 2               | 1 pc(s). | <b>9682.144</b> |
| 600       | -                   | 2               | 1 pc(s). | <b>9682.146</b> |
| 800       | -                   | 2               | 1 pc(s). | <b>9682.148</b> |
| 1000      | -                   | 3               | 1 pc(s). | <b>9682.140</b> |
| 1200      | -                   | 3               | 1 pc(s). | <b>9682.152</b> |
| 1400      | -                   | 3               | 1 pc(s). | <b>9682.154</b> |
| 1600      | -                   | 4               | 1 pc(s). | <b>9682.156</b> |
| 1800      | -                   | 4               | 1 pc(s). | <b>9682.158</b> |
| 2000      | -                   | 4               | 1 pc(s). | <b>9682.150</b> |

#### For enclosure width 600 mm

| Height mm | With viewing window | Number of locks | Packs of | Model No.       |
|-----------|---------------------|-----------------|----------|-----------------|
| 150       | -                   | 1               | 1 pc(s). | <b>9682.161</b> |
| 200       | -                   | 1               | 1 pc(s). | <b>9682.162</b> |
| 300       | -                   | 1               | 1 pc(s). | <b>9682.163</b> |
| 400       | -                   | 2               | 1 pc(s). | <b>9682.164</b> |
| 600       | -                   | 2               | 1 pc(s). | <b>9682.166</b> |
| 600       | ■                   | 2               | 1 pc(s). | <b>9682.167</b> |
| 800       | -                   | 2               | 1 pc(s). | <b>9682.168</b> |
| 800       | ■                   | 2               | 1 pc(s). | <b>9682.169</b> |
| 1000      | -                   | 3               | 1 pc(s). | <b>9682.160</b> |
| 1200      | -                   | 3               | 1 pc(s). | <b>9682.172</b> |
| 1400      | -                   | 3               | 1 pc(s). | <b>9682.174</b> |
| 1600      | -                   | 4               | 1 pc(s). | <b>9682.176</b> |
| 1800      | -                   | 4               | 1 pc(s). | <b>9682.178</b> |
| 2000      | -                   | 4               | 1 pc(s). | <b>9682.170</b> |

#### For enclosure width 800 mm

| Height mm | With viewing window | Number of locks | Packs of | Model No.       |
|-----------|---------------------|-----------------|----------|-----------------|
| 150       | -                   | 1               | 1 pc(s). | <b>9682.181</b> |
| 200       | -                   | 1               | 1 pc(s). | <b>9682.182</b> |
| 300       | -                   | 1               | 1 pc(s). | <b>9682.183</b> |
| 400       | -                   | 2               | 1 pc(s). | <b>9682.184</b> |
| 600       | -                   | 2               | 1 pc(s). | <b>9682.186</b> |
| 600       | ■                   | 2               | 1 pc(s). | <b>9682.187</b> |
| 800       | -                   | 2               | 1 pc(s). | <b>9682.188</b> |
| 1000      | -                   | 3               | 1 pc(s). | <b>9682.180</b> |
| 1200      | -                   | 3               | 1 pc(s). | <b>9682.192</b> |
| 1400      | -                   | 3               | 1 pc(s). | <b>9682.194</b> |
| 1600      | -                   | 4               | 1 pc(s). | <b>9682.196</b> |
| 1800      | -                   | 4               | 1 pc(s). | <b>9682.198</b> |
| 2000      | -                   | 4               | 1 pc(s). | <b>9682.190</b> |

#### For enclosure width 1000 mm

| Height mm | With viewing window | Number of locks | Packs of | Model No.       |
|-----------|---------------------|-----------------|----------|-----------------|
| 400       | -                   | 2               | 1 pc(s). | <b>9682.104</b> |
| 600       | -                   | 2               | 1 pc(s). | <b>9682.106</b> |
| 800       | -                   | 2               | 1 pc(s). | <b>9682.108</b> |

#### For enclosure width 1200 mm

| Height mm | With viewing window | Number of locks | Packs of | Model No.       |
|-----------|---------------------|-----------------|----------|-----------------|
| 400       | -                   | 2               | 1 pc(s). | <b>9682.124</b> |
| 600       | -                   | 2               | 1 pc(s). | <b>9682.126</b> |
| 800       | -                   | 2               | 1 pc(s). | <b>9682.128</b> |

## Installation accessories for modular front design

### Perforated mounting strip

#### for partial door

For retrospective external mounting. The perforated mounting strips have a 25 mm pitch pattern of holes and may be used for mounting individual accessories such as cable ducts, conduit holders etc. on the rear of the door.

Hole diameter of perforated mounting strip: 4.5 mm

#### Material:

- Sheet steel, 1 mm

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| For enclosure width mm | Length mm | For partial door height mm | Packs of  | Model No.       |
|------------------------|-----------|----------------------------|-----------|-----------------|
| 400                    | 198       | 200 – 800                  | 10 pc(s). | <b>9681.204</b> |
| 600                    | 398       | 150 – 800                  | 10 pc(s). | <b>9681.206</b> |
| 800                    | 598       | 150 – 800                  | 10 pc(s). | <b>9681.208</b> |

#### Note:

- For enclosure width 1000 mm you will need: 1 x 9681.204 and 1 x 9681.206
- For enclosure width 1200 mm you will need: 2 x 9681.206



### Front trim panel, top

#### for VX

To finish off the modular front design at the top when using partial doors. The front trim panels may be removed from the outside by unscrewing. The cross member required for mounting is included with the supply of the mounted partial door.

#### Material:

- Sheet steel, 1.5 mm

#### Surface finish:

- Textured paint

#### Colour:

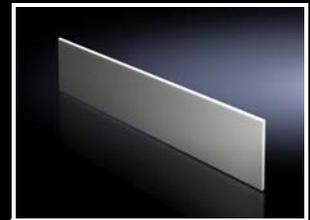
- RAL 7035

#### Supply includes:

- Front trim panel
- Assembly parts

#### Solid, protection category IP 54

| For enclosure width mm | Height mm | Packs of | Model No.       |
|------------------------|-----------|----------|-----------------|
| 400                    | 100       | 1 pc(s). | <b>9682.314</b> |
| 400                    | 300       | 1 pc(s). | <b>9682.324</b> |
| 600                    | 100       | 1 pc(s). | <b>9682.316</b> |
| 600                    | 300       | 1 pc(s). | <b>9682.326</b> |
| 800                    | 100       | 1 pc(s). | <b>9682.318</b> |
| 800                    | 300       | 1 pc(s). | <b>9682.328</b> |
| 1000                   | 300       | 1 pc(s). | <b>9682.320</b> |
| 1200                   | 300       | 1 pc(s). | <b>9682.322</b> |



### Front trim panel, bottom

#### for VX

To finish off the modular front design at the bottom when using partial doors. If version IP 2X is chosen, a roof plate with protection category IP 2X should be selected for top ventilation. The front trim panels may be removed from the outside by unscrewing.

#### Material:

- Sheet steel, 1.5 mm

#### Surface finish:

- Textured paint

#### Colour:

- RAL 7035

#### Supply includes:

- Front trim panel including cross member
- Assembly parts

#### Solid, protection category IP 54

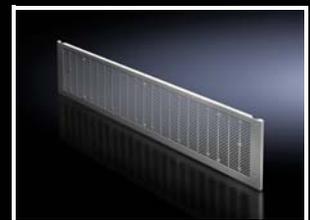
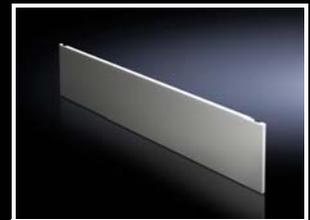
| For enclosure width mm | Height mm | Packs of | Model No.       |
|------------------------|-----------|----------|-----------------|
| 400                    | 100       | 1 pc(s). | <b>9682.334</b> |
| 400                    | 300       | 1 pc(s). | <b>9682.344</b> |
| 600                    | 100       | 1 pc(s). | <b>9682.336</b> |
| 600                    | 300       | 1 pc(s). | <b>9682.346</b> |
| 800                    | 100       | 1 pc(s). | <b>9682.338</b> |
| 800                    | 300       | 1 pc(s). | <b>9682.348</b> |
| 1000                   | 100       | 1 pc(s). | <b>9682.330</b> |
| 1000                   | 300       | 1 pc(s). | <b>9682.340</b> |
| 1200                   | 100       | 1 pc(s). | <b>9682.332</b> |
| 1200                   | 300       | 1 pc(s). | <b>9682.342</b> |

#### Vented, protection category IP 2X

| For enclosure width mm | Height mm | Packs of | Model No.       |
|------------------------|-----------|----------|-----------------|
| 400                    | 300       | 1 pc(s). | <b>9682.354</b> |
| 600                    | 300       | 1 pc(s). | <b>9682.356</b> |
| 800                    | 300       | 1 pc(s). | <b>9682.358</b> |
| 1000                   | 300       | 1 pc(s). | <b>9682.350</b> |
| 1200                   | 300       | 1 pc(s). | <b>9682.352</b> |

#### Also required:

Roof plate IP 2X, see page 961



# Doors/locks

## Installation accessories for modular front design



### Trim panel, hinged at the top

For the installation of control and display components, in conjunction with

- Modular front design
- Protective bar

**Material:**

- Sheet steel, 2 mm

**Surface finish:**

- Textured paint

**Colour:**

- RAL 7035

**Supply includes:**

- Hinges, cam locks with double-bit insert and assembly parts

| Width mm | Height mm | Packs of | Model No.       |
|----------|-----------|----------|-----------------|
| 600      | 300       | 1 pc(s). | <b>8620.500</b> |
| 800      | 300       | 1 pc(s). | <b>8620.501</b> |
| 1200     | 300       | 1 pc(s). | <b>8620.502</b> |

**+ Accessories:**

- Stay for trim panel, hinged at the top, see page 928
- Lock inserts, type A, see page 941

### Drawer

For mouse and keyboard with a maximum width of 500/700 mm. A high level of protection is retained, even with the flap open.

**Material:**

- Sheet steel

**Colour:**

- RAL 7035

**Supply includes:**

- Flap and assembly parts
- Cross member

| Height mm | Width mm | Model No.       |
|-----------|----------|-----------------|
| 200       | 600      | <b>8620.520</b> |
| 200       | 800      | <b>8620.521</b> |

**+ Accessories:**

- Lock inserts, type A, see page 941

### Support stay

**for trim panel, hinged at the top**

5 pitch pattern positions up to a maximum opening angle of approx. 85°.

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

| Packs of | Model No.       |
|----------|-----------------|
| 2 pc(s). | <b>8801.260</b> |

## Viewing window/operating panel

### System window

To cover display and operating elements or cut-outs, and to protect against dirt and liquids as well as unauthorised access.

#### Consisting of the following 2 components:

##### 1. Base frame:

- Easily screw-fastened to the door thanks to modified dimensions (tubular door frame may be used as a drilling template)
- Readily height-adjustable
- Stabilises the door cut-out
- Conceals the cut edge
- The rain canopy
  - prevents dirt from landing on the seal
  - protects the glass from being lifted out
  - prevents the ingress of dirt, and prevents moisture from running behind the window when opened
- Frame section height 30 mm or 60 mm

##### 2. Viewing window:

- Made from single-pane safety glass:
  - High level of resistance to solvents and scratches
  - Anti-static
  - Reduced risk of injury if broken
- Cam lock with double-bit insert, may be exchanged for lock inserts, type A, see page 941
- Hinge with 180° opening angle, easily inserted

##### Material:

- Extruded aluminium sections with die-cast zinc corner pieces and single-pane safety glass

##### Surface finish:

- Base frame: Powder-coated in RAL 7035
- Hinge and lock section: Natural-anodised

##### Protection category IP to IEC 60 529:

- IP 54

#### 30 section

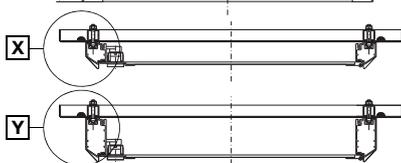
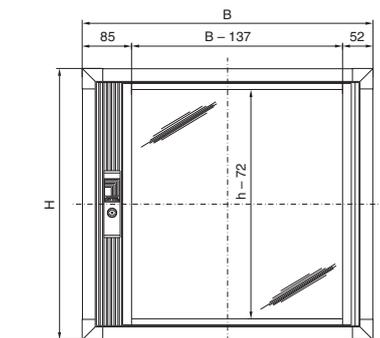
| To fit enclosure width mm | Window dimensions, external mm |     | Model No.       |
|---------------------------|--------------------------------|-----|-----------------|
|                           | W                              | H   |                 |
| 600                       | 500                            | 270 | <b>2735.500</b> |
|                           |                                | 370 | <b>2735.510</b> |
|                           |                                | 470 | <b>2735.520</b> |
|                           |                                | 570 | <b>2735.530</b> |
|                           |                                | 670 | <b>2735.540</b> |
| 800                       | 700                            | 270 | <b>2735.560</b> |
|                           |                                | 370 | <b>2735.570</b> |
|                           |                                | 470 | <b>2735.580</b> |
|                           |                                | 570 | <b>2735.590</b> |
|                           |                                | 670 | <b>2735.250</b> |

#### 60 section

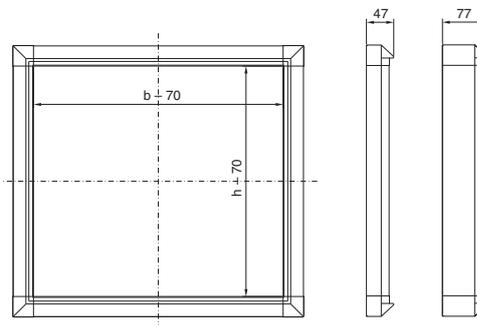
| To fit enclosure width mm | Window dimensions, external mm |     | Model No.       |
|---------------------------|--------------------------------|-----|-----------------|
|                           | W                              | H   |                 |
| 600                       | 500                            | 370 | <b>2736.510</b> |
|                           |                                | 470 | <b>2736.520</b> |
|                           |                                | 570 | <b>2736.530</b> |
|                           |                                | 670 | <b>2736.540</b> |
| 800                       | 700                            | 670 | <b>2736.500</b> |

##### Note:

- Not suitable for outdoor siting

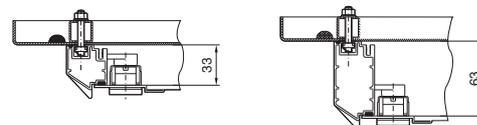


Viewing area (B-137) offset by 16.5 mm towards the hinge side



View X for section height 30

View Y for section height 60



# Doors/locks

## Viewing window/operating panel



### Viewing window

- For mounting on
- AX enclosures instead of the door
  - Surfaces

Max. installation depth: Depth - 4 mm

Visible area:  
(Width - 60 mm) x (Height - 60 mm)

#### Material:

- Frame: Aluminium, natural anodised
- Glazed panel: Acrylic

#### Protection category IP to IEC 60 529:

- IP 54

#### Supply includes:

- Plastic handle with lock insert no. 3524 E

#### Depth 36 mm

| For use as door variant with           | Width mm | Height mm | Model No.       |
|----------------------------------------|----------|-----------|-----------------|
| 1050.000, 1350.000, 1007.000, 1013.000 | 497      | 497       | <b>2733.010</b> |
| 1039.000, 1339.000, 1009.000           | 597      | 377       | <b>2730.010</b> |
| 1010.000, 1054.000, 1060.000, 1360.000 | 597      | 597       | <b>2731.010</b> |
| 1012.000, 1076.000, 1376.000           | 597      | 757       | <b>2732.010</b> |

#### Depth 62 mm

| For use as door variant with           | Width mm | Height mm | Model No.       |
|----------------------------------------|----------|-----------|-----------------|
| 1050.000, 1350.000, 1007.000           | 497      | 497       | <b>2763.010</b> |
| 1039.000, 1339.000, 1009.000           | 597      | 377       | <b>2760.010</b> |
| 1010.000, 1054.000, 1060.000, 1360.000 | 597      | 597       | <b>2761.010</b> |
| 1012.000, 1076.000, 1376.000           | 597      | 757       | <b>2762.010</b> |

### Acrylic glazed cover

With security lock, lock no. 3524 E.

#### Material:

- Frame:  
Extruded aluminium sections with die-cast corner pieces
- Glazed panel: Smoked acrylic

#### Protection category IP to IEC 60 529:

- IP 54

#### Acrylic glazed covers, 482.6 mm (19")

| U | Width mm | Height mm | Depth mm | Model No.       |
|---|----------|-----------|----------|-----------------|
| 3 | 320      | 158       | 47.5     | <b>2780.000</b> |
| 3 | 534      | 158       | 47.5     | <b>2781.000</b> |
| 6 | 534      | 291.5     | 47.5     | <b>2782.000</b> |
| 9 | 534      | 425       | 47.5     | <b>2796.000</b> |

Max. installation depth: 43 mm

Visible area:  
(Width - 40 mm) x (Height - 20.5 mm)

#### Metric acrylic glazed covers

| Width mm | Height mm | Depth mm | Model No.       |
|----------|-----------|----------|-----------------|
| 400      | 200       | 47.5     | <b>2784.000</b> |
| 400      | 400       | 47.5     | <b>2785.000</b> |
| 500      | 200       | 47.5     | <b>2786.000</b> |
| 500      | 400       | 47.5     | <b>2787.000</b> |
| 600      | 200       | 47.5     | <b>2788.000</b> |
| 600      | 400       | 47.5     | <b>2789.000</b> |

Max. installation depth: 43 mm

Visible area:  
(Width - 40 mm) x (Height - 20.5 mm)

## Viewing window/operating panel

### Viewing window

#### Stainless steel

Fitted as standard with internal 130° hinges and all-round seal. The double-bit lock insert may be exchanged for 27 mm lock inserts, type A.

#### Material:

- Stainless steel 1.4301 (AISI 304)
- Single-pane safety glass

#### Protection category IP to IEC 60 529:

- IP 54

#### Supply includes:

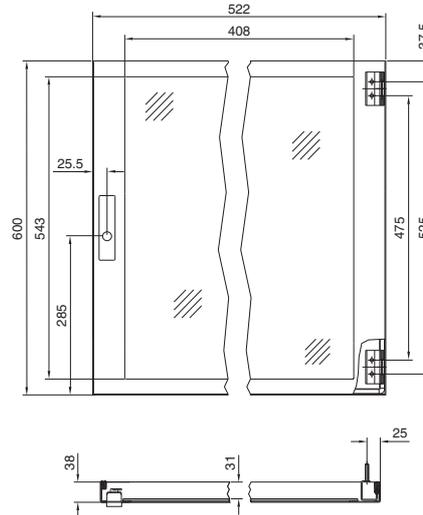
- Assembly parts

| Width mm | Height mm | Depth mm | Model No. |
|----------|-----------|----------|-----------|
| 522      | 600       | 38       | 2793.560  |



#### Accessories:

- Lock inserts 27 mm, type A, see page 941



### Operating panel

For mounting on

- AX enclosures instead of the door
- Surfaces

Frame construction with a 3 mm aluminium plate secured from the inside.

#### Material:

- Aluminium, natural anodised

#### Protection category IP to IEC 60 529:

- IP 54

#### Supply includes:

- Aluminium frame
- Display panel
- Hinges
- Brackets

| For use as door variant for AX               | Width mm | Height mm | Depth mm | Model No. |
|----------------------------------------------|----------|-----------|----------|-----------|
| 1004.000<br>1011.000<br>1031.000             | 377      | 297       | 36       | 2741.010  |
| 1006.000<br>1303.000<br>1380.000             | 377      | 377       | 36       | 2742.010  |
| 1008.000<br>1038.000<br>1338.000             | 377      | 597       | 36       | 2743.010  |
| 1007.000<br>1013.000<br>1050.000<br>1350.000 | 497      | 497       | 36       | 2745.010  |
| 1009.000<br>1039.000<br>1339.000             | 597      | 377       | 36       | 2744.010  |
| 1010.000<br>1060.000<br>1304.000<br>1360.000 | 597      | 597       | 36       | 2746.010  |
| For surfaces                                 | 197      | 297       | 36       | 2740.010  |

Area available for population:  
(Width - 70 mm) x (Height - 70 mm)

Dimensions of aluminium plate:  
(Width - 54 mm) x (Height - 54 mm)



#### Accessories:

- Cam lock 2749.100, see page 932



# Doors/locks

## Viewing window/operating panel



### Cam lock

#### for operating panel

May be retrofitted to the operating area or enclosure wall of operating panels. Standard double-bit insert may be exchanged for lock inserts, type C.

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>2749.100</b> |

#### Accessories:

- Lock inserts, type C, see page 941



### Identification strip

For individual field identifiers on the door, including transparent cover and assembly parts.

For labels:  
Width: Enclosure width - 150 mm  
Height: 29 mm  
Thickness: 0.75 mm

#### Colour:

- RAL 7035

| For enclosure width mm | Model No.       |
|------------------------|-----------------|
| 600                    | <b>8618.450</b> |
| 800                    | <b>8618.451</b> |

### Small enclosures, compact enclosures and operating housings AX, sheet steel

|                                                        |           | Enclosure series |                            |                   |                                          |                      |           |
|--------------------------------------------------------|-----------|------------------|----------------------------|-------------------|------------------------------------------|----------------------|-----------|
|                                                        |           | E-Box KX         | Compact enclosure AX/AX IT |                   | Operating housings with handle strips AX | Plastic enclosure AX | EL 3-part |
| Application                                            |           | With cam         | With cam                   | With 3-point lock | With cam                                 | With cam             | 3 – 15 U  |
|                                                        | from page | 65               | 85                         | 89                | 179                                      | 94                   | 715       |
| <b>Handle systems for enclosures</b>                   |           |                  |                            |                   |                                          |                      |           |
| <b>Comfort handle AX</b>                               |           |                  |                            |                   |                                          |                      |           |
| For lock inserts or profile half-cylinders             | 939       | -                | -                          | ■                 | -                                        | -                    | -         |
| With security lock insert E1                           | 939       | -                | -                          | ■                 | -                                        | -                    | -         |
| For padlock and lock inserts or profile half-cylinders | 939       | -                | -                          | ■                 | -                                        | -                    | -         |
| <b>Mini-comfort handle AX</b>                          |           |                  |                            |                   |                                          |                      |           |
| For lock inserts or profile half-cylinders             | 940       | ■                | ■                          | -                 | ■                                        | -                    | -         |
| For padlock and lock inserts or profile half-cylinders | 940       | ■                | ■                          | -                 | ■                                        | -                    | -         |
| <b>Mini-comfort handle for AX plastic</b>              |           |                  |                            |                   |                                          |                      |           |
| For lock inserts or profile half-cylinders             | 941       | -                | -                          | -                 | -                                        | ■                    | -         |
| <b>Mini-comfort handle for 3-part EL enclosures</b>    |           |                  |                            |                   |                                          |                      |           |
| For lock inserts                                       | 949       | -                | -                          | -                 | -                                        | -                    | ■         |
| For profile half-cylinders                             | 949       | -                | -                          | -                 | -                                        | -                    | ■         |
| <b>Lock inserts for enclosures</b>                     |           |                  |                            |                   |                                          |                      |           |
| <b>Lock inserts</b>                                    |           |                  |                            |                   |                                          |                      |           |
| Type A                                                 | 941       | ■                | ■                          | ■                 | ■                                        | ■                    | -         |

| Lock inserts for handle systems |            |              |        |                              |
|---------------------------------|------------|--------------|--------|------------------------------|
| Profile half-cylinders          |            | Lock inserts |        |                              |
| Lock and push-button inserts    | DIN 18 252 | Type A       | Type F | Lock and push-button inserts |
| 942                             | 942        | 941          | 941    | 942                          |
| ■                               | ■          | ■            | -      | -                            |
| -                               | -          | -            | -      | -                            |
| ■                               | ■          | ■            | -      | -                            |
| ■                               | ■          | ■            | -      | -                            |
| ■                               | ■          | ■            | -      | -                            |
| ■                               | -          | -            | ■      | -                            |
| ■                               | ■          | -            | -      | -                            |



### Console systems, industrial workstation, Comfort Panel and Optipanel, sheet steel

| Application | Enclosure series         |          |                      |              |                      |     |               |           |           |
|-------------|--------------------------|----------|----------------------|--------------|----------------------|-----|---------------|-----------|-----------|
|             | TopConsole TP            |          | One-piece console TP |              | Universal console TP | IW  | Comfort Panel | Optipanel | from page |
|             | Desk section and console | Pedestal | Console cover        | Console door |                      |     |               |           |           |
|             | 157                      | 157      | 161                  | 161          | 162                  | 167 | 172           | 174       |           |

| Lock inserts for handle systems |            |              |        |                              |
|---------------------------------|------------|--------------|--------|------------------------------|
| Profile half-cylinders          |            | Lock inserts |        |                              |
| Lock and push-button inserts    | DIN 18 252 | Type A       | Type F | Lock and push-button inserts |
| 942                             | 942        | 941          | 941    | 942                          |

#### Handle systems for enclosures

| Comfort handle for VX SE, PC, IW, EL                   |     |   |   |   |   |   |   |   |   |
|--------------------------------------------------------|-----|---|---|---|---|---|---|---|---|
| For lock inserts                                       | 938 | - | - | - | - | - | ■ | - | - |
| For padlock and lock inserts                           | 938 | - | - | - | - | - | ■ | - | - |
| For profile half-cylinders                             | 938 | - | - | - | - | - | ■ | - | - |
| Comfort handle AX                                      |     |   |   |   |   |   |   |   |   |
| For lock inserts or profile half-cylinders             | 939 | - | ■ | - | ■ | ■ | - | - | - |
| With lock insert, lock E1                              | 939 | - | ■ | - | ■ | ■ | - | - | - |
| For padlock and lock inserts or profile half-cylinders | 939 | - | ■ | - | ■ | ■ | - | - | - |
| T handles                                              |     |   |   |   |   |   |   |   |   |
| Type B                                                 | 943 | ■ | - | ■ | - | - | - | - | - |
| Type C                                                 | 943 | - | - | - | - | - | - | ■ | ■ |
| Plastic handles                                        |     |   |   |   |   |   |   |   |   |
| Type B                                                 | 942 | ■ | - | ■ | - | - | - | - | - |
| Type C                                                 | 942 | - | - | - | - | - | - | ■ | ■ |
| Lock inserts for enclosures                            |     |   |   |   |   |   |   |   |   |
| Lock inserts                                           |     |   |   |   |   |   |   |   |   |
| Type A                                                 | 941 | ■ | ■ | ■ | ■ | ■ | - | - | - |
| Type F                                                 | 941 | - | - | - | - | - | ■ | - | - |
| Lock cylinder inserts                                  |     |   |   |   |   |   |   |   |   |
| Type B                                                 | 943 | - | - | - | - | - | ■ | - | - |

|   |   |   |   |   |
|---|---|---|---|---|
| - | - | - | ■ | ■ |
| - | - | - | ■ | ■ |
| ■ | ■ | - | - | - |
| ■ | ■ | ■ | - | - |
| - | - | - | - | - |
| ■ | ■ | ■ | - | - |

# Doors/locks

## Allocation of lock systems

### Enclosures and cases, stainless steel

| Application | Page              | Enclosure series |               |     |                      |     |       |
|-------------|-------------------|------------------|---------------|-----|----------------------|-----|-------|
|             |                   | E-Box KX         | AX            |     | One-piece console TP | VX  | VX SE |
| With cam    | With 3-point lock |                  | Console cover |     |                      |     |       |
|             | 233               | 237              | 240           | 251 | 243                  | 249 |       |

#### Handle systems for enclosures

| Handle systems for enclosures                                               |     |   |   |   |   |   |   |
|-----------------------------------------------------------------------------|-----|---|---|---|---|---|---|
| <b>Comfort handle VX</b>                                                    |     |   |   |   |   |   |   |
| For lock inserts, stainless steel, precision-cast                           | 937 | - | - | - | - | ■ | - |
| For profile half-cylinders, stainless steel, precision-cast                 | 937 | - | - | - | - | ■ | - |
| <b>Comfort handle for VX SE, PC, IW, EL</b>                                 |     |   |   |   |   |   |   |
| For lock inserts, matt chrome                                               | 938 | - | - | - | - | - | ■ |
| For profile half-cylinders, matt chrome                                     | 938 | - | - | - | - | - | ■ |
| <b>Comfort handle AX</b>                                                    |     |   |   |   |   |   |   |
| For lock inserts or profile half-cylinders, stainless steel, precision-cast | 939 | - | - | ■ | - | - | - |
| <b>Mini-comfort handle AX</b>                                               |     |   |   |   |   |   |   |
| For lock inserts or profile half-cylinders                                  | 940 | ■ | ■ | - | - | - | - |
| For padlock and lock inserts or profile half-cylinders                      | 940 | ■ | ■ | - | - | - | - |
| <b>Plastic handle</b>                                                       |     |   |   |   |   |   |   |
| Type C                                                                      | 942 | - | - | - | ■ | - | - |
| <b>T handle</b>                                                             |     |   |   |   |   |   |   |
| Type C                                                                      | 943 | - | - | - | ■ | - | - |
| <b>Lock inserts for enclosures</b>                                          |     |   |   |   |   |   |   |
| <b>Lock inserts</b>                                                         |     |   |   |   |   |   |   |
| Type A                                                                      | 941 | ■ | ■ | ■ | - | - | - |
| Type C                                                                      | 941 | - | - | - | ■ | - | - |
| Type F                                                                      | 941 | - | - | - | - | - | ■ |
| Type G                                                                      | 941 | - | - | - | - | ■ | - |
| <b>Cam lock, stainless steel</b>                                            |     |   |   |   |   |   |   |
| With double-bit insert, stainless steel 1.4404 (AISI 316L)                  | 943 | ■ | ■ | - | - | - | - |
| <b>Lock cylinder inserts</b>                                                |     |   |   |   |   |   |   |
| Type C                                                                      | 943 | - | - | - | ■ | - | - |

| Lock inserts for handle systems |            |              |        |        |                              |
|---------------------------------|------------|--------------|--------|--------|------------------------------|
| Profile half-cylinders          |            | Lock inserts |        |        |                              |
| Lock and push-button inserts    | DIN 18 252 | Type A       | Type F | Type G | Lock and push-button inserts |
| 942                             | 942        | 941          | 941    | 941    | 942                          |

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| - | - | - | - | ■ | ■ |
| ■ | ■ | - | - | - | - |
| - | - | - | ■ | - | ■ |
| ■ | ■ | - | - | - | - |
| ■ | ■ | ■ | - | - | - |
| ■ | ■ | ■ | - | - | - |

### Comfort handle VX

#### for VX, VX IT

As the handle does not take up any swing space, due to its folding action, the door surface area available for installed equipment is maximised. Simple assembly, thanks to the snap-mounted handle system.

Prepared for the installation of lock inserts, lock and push-button inserts or for the installation of standard commercially available 40 or 45 mm profile half-cylinders.



|                                            |  |  |  |  |  |
|--------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                            | For lock inserts                                                                  | For padlock and lock inserts                                                      | With security lock insert E1 <sup>1)</sup>                                        | For profile half-cylinders                                                        | Prepared for ASSA lock system                                                      |
|                                            | <b>Model No.</b>                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                    |
| Die-cast zinc RAL 7035                     | <b>8618.200</b>                                                                   | <b>8618.230</b>                                                                   | <b>8618.240</b>                                                                   | <b>8618.250</b>                                                                   | <b>8618.270</b>                                                                    |
| Die-cast zinc RAL 9005                     | <b>8618.201</b>                                                                   | <b>8618.231</b>                                                                   | –                                                                                 | <b>8618.251</b>                                                                   | –                                                                                  |
| Precision-cast stainless steel             | <b>8618.220</b>                                                                   | –                                                                                 | –                                                                                 | <b>8618.280</b>                                                                   | –                                                                                  |
| <b>Lock inserts, type G</b>                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |
| 7 mm square                                | 8618.300                                                                          | 8618.300                                                                          | –                                                                                 | –                                                                                 | –                                                                                  |
| 8 mm square                                | 8618.301                                                                          | 8618.301                                                                          | –                                                                                 | –                                                                                 | –                                                                                  |
| 7 mm triangular                            | 8618.302                                                                          | 8618.302                                                                          | –                                                                                 | –                                                                                 | –                                                                                  |
| 8 mm triangular                            | 8618.303                                                                          | 8618.303                                                                          | –                                                                                 | –                                                                                 | –                                                                                  |
| Screwdriver                                | 8618.304                                                                          | 8618.304                                                                          | –                                                                                 | –                                                                                 | –                                                                                  |
| Daimler insert                             | 8618.305                                                                          | 8618.305                                                                          | –                                                                                 | –                                                                                 | –                                                                                  |
| 3 mm double-bit                            | 8618.306                                                                          | 8618.306                                                                          | –                                                                                 | –                                                                                 | –                                                                                  |
| Fiat                                       | 8618.307                                                                          | 8618.307                                                                          | –                                                                                 | –                                                                                 | –                                                                                  |
| 6.5 mm triangular                          | 8618.308                                                                          | 8618.308                                                                          | –                                                                                 | –                                                                                 | –                                                                                  |
| <b>Lock and push-button inserts</b>        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |
| Lock insert, lock no. 3524 E <sup>2)</sup> | 8611.180                                                                          | 8611.180                                                                          | –                                                                                 | 2467.000                                                                          | –                                                                                  |
| Push-button insert                         | 8611.190                                                                          | 8611.190                                                                          | –                                                                                 | 2468.000                                                                          | –                                                                                  |
| Push-button and lock insert <sup>2)</sup>  | 8611.200 <sup>3)</sup>                                                            | 8611.200 <sup>3)</sup>                                                            | –                                                                                 | 2469.000 <sup>4)</sup>                                                            | –                                                                                  |
| <b>Profile half-cylinders</b>              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |
| To DIN 18 252 <sup>5)</sup>                | –                                                                                 | –                                                                                 | –                                                                                 | 9785.040 <sup>7)</sup>                                                            | –                                                                                  |
|                                            | –                                                                                 | –                                                                                 | –                                                                                 | 9785.042 <sup>6)</sup>                                                            | –                                                                                  |

<sup>1)</sup> Only for use with VW, Audi, SEAT, SkodaAuto, supplied without key

<sup>2)</sup> With 2 keys

<sup>3)</sup> Lock no. 12321, no other lock is possible

<sup>4)</sup> Lock no. 2123, no other lock is possible

<sup>5)</sup> With 3 keys for each lock insert

<sup>6)</sup> Packs of two, simultaneous locking within the same pack, no simultaneous locking for different packs

<sup>7)</sup> Lock-specific key

### Locking bar latch to CNOMO<sup>1)</sup>

#### for VX

To fit all locking bars in doors and glazed doors with standard lock or comfort handle VX. The latch prevents the locking bars from moving when the door is open.

<sup>1)</sup> CNOMO is a French automobile industry standard. For safety reasons, it must not be possible to lock the handle whilst the door is open.

| Packs of  | Model No.       |
|-----------|-----------------|
| 10 pc(s). | <b>8618.460</b> |



#### Also required:

- For CNOMO<sup>1)</sup> lock inserts, type G, 6.5 mm triangular insert 8618.308, see page 941



# Doors/locks

## Lock systems



### Comfort handle

for VX SE, PC, IW, EL

As the handle does not take up any swing space, due to its folding action, the door surface area available for installed equipment is maximised.

Prepared for the installation of lock inserts, lock and push-button inserts or for the installation of standard commercially available 40 or 45 mm profile half-cylinders.



#### Also required:

- Handle adaptor, see page 918, for mounting on glazed door for VX SE, PC bottom door, IW designer door

#### Note:

- When replacing the comfort handle in the wall-mounted enclosure EL, 3-part with 21 U, please note that the handle can only be replaced as a complete system (handle including lock insert)
- The comfort handle 8611.020 is included with the supply of the enclosure

|                                            |  |  |  |
|--------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                            | For lock inserts                                                                   | For padlock and lock inserts                                                        | For profile half-cylinders                                                          |
|                                            | <b>Model No.</b>                                                                   |                                                                                     |                                                                                     |
| Die-cast zinc RAL 7035                     | <b>8611.020</b>                                                                    | <b>8611.290</b>                                                                     | <b>8611.070</b>                                                                     |
| Matt chrome                                | <b>8611.330</b>                                                                    | –                                                                                   | <b>8611.340</b>                                                                     |
| <b>Lock inserts, type F</b>                |                                                                                    |                                                                                     |                                                                                     |
| 7 mm square                                | 8611.100                                                                           | 8611.100                                                                            | –                                                                                   |
| 8 mm square                                | 8611.110                                                                           | 8611.110                                                                            | –                                                                                   |
| 7 mm triangular                            | 8611.120                                                                           | 8611.120                                                                            | –                                                                                   |
| 8 mm triangular                            | 8611.130                                                                           | 8611.130                                                                            | –                                                                                   |
| Screwdriver                                | 8611.140                                                                           | 8611.140                                                                            | –                                                                                   |
| Daimler insert                             | 8611.150                                                                           | 8611.150                                                                            | –                                                                                   |
| 3 mm double-bit                            | 8611.160                                                                           | 8611.160                                                                            | –                                                                                   |
| Fiat                                       | 8611.170                                                                           | 8611.170                                                                            | –                                                                                   |
| 6.5 mm triangular                          | 8611.220                                                                           | 8611.220                                                                            | –                                                                                   |
| <b>Lock and push-button inserts</b>        |                                                                                    |                                                                                     |                                                                                     |
| Lock insert, lock no. 3524 E <sup>1)</sup> | 8611.180                                                                           | 8611.180                                                                            | 2467.000                                                                            |
| Push-button insert                         | 8611.190                                                                           | 8611.190                                                                            | 2468.000                                                                            |
| Push-button and lock insert <sup>1)</sup>  | 8611.200 <sup>2)</sup>                                                             | 8611.200 <sup>2)</sup>                                                              | 2469.000 <sup>3)</sup>                                                              |
| <b>Profile half-cylinders</b>              |                                                                                    |                                                                                     |                                                                                     |
| to DIN 18 252 <sup>4)</sup>                | –                                                                                  | –                                                                                   | 9785.040 <sup>6)</sup>                                                              |
|                                            | –                                                                                  | –                                                                                   | 9785.042 <sup>5)</sup>                                                              |

<sup>1)</sup> With 2 keys

<sup>2)</sup> Lock no. 12321, no other lock is possible

<sup>3)</sup> Lock no. 2123, no other lock is possible

<sup>4)</sup> With 3 keys for each lock insert

<sup>5)</sup> Packs of two, simultaneous locking within the same pack, no simultaneous locking for different packs

<sup>6)</sup> Lock-specific key

### Comfort handle AX

#### for compact enclosures AX with 3-point lock system, TE, TP, swing frame, large

The unlocked handle folds out forwards, and the lock is opened by swivelling.

Prepared for the installation of lock inserts or for the installation of standard commercially available 40 or 45 mm profile half-cylinders, as well as lock and push-button inserts.

|                                            |  |  |  |
|--------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                            | For lock inserts or profile half-cylinders                                        | With security lock insert E1 <sup>1)</sup>                                        | For padlocks and lock inserts or profile half-cylinders                            |
|                                            | <b>Model No.</b>                                                                  |                                                                                   |                                                                                    |
| Die-cast zinc RAL 7035                     | <b>2435.100</b>                                                                   | <b>2435.200</b>                                                                   | <b>2435.400</b>                                                                    |
| Precision-cast stainless steel             | <b>2435.300</b>                                                                   | -                                                                                 | -                                                                                  |
| <b>Lock inserts, type A</b>                |                                                                                   |                                                                                   |                                                                                    |
| 7 mm square                                | 2460.000                                                                          | -                                                                                 | 2460.000                                                                           |
| 8 mm square                                | 2461.000                                                                          | -                                                                                 | 2461.000                                                                           |
| 7 mm triangular                            | 2462.000                                                                          | -                                                                                 | 2462.000                                                                           |
| 8 mm triangular                            | 2463.000                                                                          | -                                                                                 | 2463.000                                                                           |
| Screwdriver                                | 2464.000                                                                          | -                                                                                 | 2464.000                                                                           |
| Daimler insert                             | 2465.000                                                                          | -                                                                                 | 2465.000                                                                           |
| 3 mm double-bit                            | 2466.000                                                                          | -                                                                                 | 2466.000                                                                           |
| Fiat                                       | 2307.000                                                                          | -                                                                                 | 2307.000                                                                           |
| 6.5 mm triangular                          | 2460.650                                                                          | -                                                                                 | 2460.650                                                                           |
| <b>Lock and push-button inserts</b>        |                                                                                   |                                                                                   |                                                                                    |
| Lock insert, lock no. 3524 E <sup>2)</sup> | 2467.000                                                                          | -                                                                                 | 2467.000                                                                           |
| Push-button insert                         | 2468.000                                                                          | -                                                                                 | 2468.000                                                                           |
| Push-button and lock insert <sup>2)</sup>  | 2469.000 <sup>3)</sup>                                                            | -                                                                                 | 2469.000 <sup>3)</sup>                                                             |
| <b>Profile half-cylinders</b>              |                                                                                   |                                                                                   |                                                                                    |
| to DIN 18 252 <sup>4)</sup>                | 9785.040 <sup>6)</sup>                                                            | -                                                                                 | 9785.040 <sup>6)</sup>                                                             |
|                                            | 9785.042 <sup>5)</sup>                                                            | -                                                                                 | 9785.042 <sup>5)</sup>                                                             |

<sup>1)</sup> Only for use with VW, Audi, SEAT, SkodaAuto, supplied without key

<sup>2)</sup> With 2 keys.

<sup>3)</sup> Lock no. 2123; no other lock is possible

<sup>4)</sup> With 3 keys for each lock insert

<sup>5)</sup> Packs of two, simultaneous locking within the same pack, no simultaneous locking for different packs

<sup>6)</sup> Lock-specific key



# Doors/locks

## Lock systems



### Mini-comfort handle AX

for AX/AX IT with cam lock, KX with cam lock, partial doors for modular front design

The lock is opened by swivelling the unlocked handle.

Prepared for the installation of lock inserts or for the installation of standard commercially available 40 or 45 mm profile half-cylinders, as well as lock and push-button inserts.

|                                            |  |  |
|--------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                            | For lock inserts or profile half-cylinders                                         | For padlocks and lock inserts or profile half-cylinders                             |
|                                            | <b>Model No.</b>                                                                   |                                                                                     |
| Die-cast zinc RAL 7035                     | <b>2537.100</b>                                                                    | <b>2537.300</b>                                                                     |
| <b>Lock inserts, type A</b>                |                                                                                    |                                                                                     |
| 7 mm square                                | 2460.000                                                                           | 2460.000                                                                            |
| 8 mm square                                | 2461.000                                                                           | 2461.000                                                                            |
| 7 mm triangular                            | 2462.000                                                                           | 2462.000                                                                            |
| 8 mm triangular                            | 2463.000                                                                           | 2463.000                                                                            |
| Screwdriver                                | 2464.000                                                                           | 2464.000                                                                            |
| Daimler insert                             | 2465.000                                                                           | 2465.000                                                                            |
| 3 mm double-bit                            | 2466.000                                                                           | 2466.000                                                                            |
| Fiat                                       | 2307.000                                                                           | 2307.000                                                                            |
| 6.5 mm triangular                          | 2460.650                                                                           | 2460.650                                                                            |
| <b>Lock and push-button inserts</b>        |                                                                                    |                                                                                     |
| Lock insert, lock no. 3524 E <sup>1)</sup> | 2467.000                                                                           | 2467.000                                                                            |
| Push-button insert                         | 2468.000                                                                           | 2468.000                                                                            |
| Push-button and lock insert <sup>1)</sup>  | 2469.000 <sup>2)</sup>                                                             | 2469.000 <sup>2)</sup>                                                              |
| <b>Profile half-cylinders</b>              |                                                                                    |                                                                                     |
| to DIN 18 252 <sup>3)</sup>                | 9785.040 <sup>5)</sup>                                                             | 9785.040 <sup>5)</sup>                                                              |
|                                            | 9785.042 <sup>4)</sup>                                                             | 9785.042 <sup>4)</sup>                                                              |

<sup>1)</sup> With 2 keys.

<sup>2)</sup> Lock no. 2123; no other lock is possible

<sup>3)</sup> With 3 keys for each lock insert

<sup>4)</sup> Packs of two, simultaneous locking within the same pack, no simultaneous locking for different packs

<sup>5)</sup> Lock-specific key

### Mini-comfort handle AX

#### for AX plastic

The lock is opened by swivelling the unlocked handle.

Prepared for the installation of lock inserts or for the installation of standard commercially available 40 or 45 mm profile half-cylinders, as well as lock and push-button inserts.

| Packs of                                   | Model No.              |
|--------------------------------------------|------------------------|
| 1 pc(s).                                   | <b>1485.600</b>        |
| <b>Lock inserts, type A</b>                |                        |
| 7 mm square                                | 2460.000               |
| 8 mm square                                | 2461.000               |
| 7 mm triangular                            | 2462.000               |
| 8 mm triangular                            | 2463.000               |
| Screwdriver                                | 2464.000               |
| Daimler insert                             | 2465.000               |
| 3 mm double-bit                            | 2466.000               |
| Fiat                                       | 2307.000               |
| 6.5 mm triangular                          | 2460.650               |
| <b>Lock and push-button inserts</b>        |                        |
| Lock insert, lock no. 3524 E <sup>1)</sup> | 2467.000               |
| Push-button insert                         | 2468.000               |
| Push-button and lock insert <sup>1)</sup>  | 2469.000 <sup>2)</sup> |
| <b>Profile half-cylinders</b>              |                        |
| to DIN 18 252 <sup>3)</sup>                | 9785.040 <sup>5)</sup> |
|                                            | 9785.042 <sup>4)</sup> |

<sup>1)</sup> With 2 keys.

<sup>2)</sup> Lock no. 2123; no other lock is possible

<sup>3)</sup> With 3 keys for each lock insert

<sup>4)</sup> Packs of two, simultaneous locking within the same pack, no simultaneous locking for different packs

<sup>5)</sup> Lock-specific key



### Lock inserts

#### for handles and enclosures



#### Accessories:

- Enclosure key, see page 945

| Type              | A                                                                                   | C                                                                                   | F                                                                                   | G                                                                                    |
|-------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                   |  |  |  |  |
| Material          | Die-cast zinc                                                                       | Die-cast zinc                                                                       | Die-cast zinc                                                                       | Die-cast zinc                                                                        |
| Length            | 27 mm                                                                               | 41 mm                                                                               |                                                                                     |                                                                                      |
|                   | <b>Model No.</b>                                                                    |                                                                                     |                                                                                     |                                                                                      |
| 7 mm square       | <b>2460.000</b>                                                                     | <b>2523.000</b>                                                                     | <b>8611.100</b>                                                                     | <b>8618.300</b>                                                                      |
| 8 mm square       | <b>2461.000</b>                                                                     | <b>2526.000</b>                                                                     | <b>8611.110</b>                                                                     | <b>8618.301</b>                                                                      |
| 7 mm triangular   | <b>2462.000</b>                                                                     | <b>2527.000</b>                                                                     | <b>8611.120</b>                                                                     | <b>8618.302</b>                                                                      |
| 8 mm triangular   | <b>2463.000</b>                                                                     | <b>2528.000</b>                                                                     | <b>8611.130</b>                                                                     | <b>8618.303</b>                                                                      |
| Screwdriver       | <b>2464.000</b>                                                                     | -                                                                                   | <b>8611.140</b>                                                                     | <b>8618.304</b>                                                                      |
| Daimler insert    | <b>2465.000</b>                                                                     | <b>2522.000</b>                                                                     | <b>8611.150</b>                                                                     | <b>8618.305</b>                                                                      |
| 3 mm double-bit   | <b>2466.000</b>                                                                     | <b>2483.000</b>                                                                     | <b>8611.160</b>                                                                     | <b>8618.306</b>                                                                      |
| Fiat              | <b>2307.000</b>                                                                     | -                                                                                   | <b>8611.170</b>                                                                     | <b>8618.307</b>                                                                      |
| 6.5 mm triangular | <b>2460.650</b>                                                                     | -                                                                                   | <b>8611.220</b>                                                                     | <b>8618.308</b>                                                                      |



# Doors/locks

## Lock systems

### Lock inserts

for installation in comfort handle,  
mini-comfort handle



#### Lock and push-button inserts

##### Installation options:

- In comfort handle VX for lock inserts
- In mini-comfort handle for VX SE, IW, PC for lock inserts
- In mini-comfort handle for EL for lock inserts

|                                                     | Model No.                    |
|-----------------------------------------------------|------------------------------|
| Security lock insert, lock no. 3524 E <sup>1)</sup> | <b>8611.180</b>              |
| Push-button insert                                  | <b>8611.190</b>              |
| Push-button and lock insert <sup>1)</sup>           | <b>8611.200<sup>2)</sup></b> |

<sup>1)</sup> With two keys

<sup>2)</sup> Lock no. 12321; no other lock is possible



#### Lock and push-button inserts and profile half-cylinders

##### Installation options:

- In comfort handle VX for profile half-cylinders
- In comfort handle AX
- In mini-comfort handle AX
- In mini-comfort handle AX for AX plastic
- In mini-comfort handle for EL for profile half-cylinder

|                                                     | Model No.                    |
|-----------------------------------------------------|------------------------------|
| Security lock insert, lock no. 3524 E <sup>1)</sup> | <b>2467.000</b>              |
| Push-button insert                                  | <b>2468.000</b>              |
| Push-button and lock insert <sup>1)</sup>           | <b>2469.000<sup>2)</sup></b> |
| Profile half-cylinders to DIN 18 252 <sup>3)</sup>  | <b>9785.040<sup>5)</sup></b> |
|                                                     | <b>9785.042<sup>4)</sup></b> |

<sup>1)</sup> With two keys

<sup>2)</sup> Lock no. 2123; no other lock is possible

<sup>3)</sup> With 3 keys for each lock insert

<sup>4)</sup> Packs of two, simultaneous locking within the same pack, no simultaneous locking for different packs

<sup>5)</sup> Lock-specific key



### Plastic handles

With or without lock cylinder insert.

#### Supply includes:

- Assembly parts and seal

| Type            | B                                                                                   |                                                                                      | C                                                                                     |                                                                                       |
|-----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                 |  |  |  |  |
|                 | With lock cylinder insert, lock no. 3524 E <sup>1)</sup>                            | Without lock cylinder insert                                                         | With lock cylinder insert, lock no. 3524 E <sup>1)</sup>                              | Without lock cylinder insert                                                          |
| Installation in | Console lid TP, sheet steel                                                         |                                                                                      | Console lid TP, stainless steel<br>Comfort Panel<br>Optipanel                         |                                                                                       |
|                 | <b>Model No.</b>                                                                    |                                                                                      |                                                                                       |                                                                                       |
| RAL 9011        | <b>2576.000</b>                                                                     | <b>2533.000</b>                                                                      | <b>2485.000</b>                                                                       | <b>2485.100</b>                                                                       |

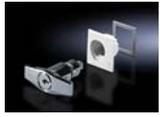
<sup>1)</sup> With two keys

### T handles

With or without lock cylinder insert.

**Supply includes:**

- Seal

| Type            | B                                                                                 |                                                                                   | C                                                                                 |                                                                                    |
|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                 |  |  |  |  |
|                 | With lock cylinder insert <sup>1)</sup>                                           | Without lock cylinder insert                                                      | With lock cylinder insert <sup>1)</sup>                                           | Without lock cylinder insert                                                       |
| Installation in | Console lid TP, sheet steel                                                       |                                                                                   | Console lid TP, stainless steel<br>Comfort Panel<br>Optipanel                     |                                                                                    |
|                 | <b>Model No.</b>                                                                  |                                                                                   |                                                                                   |                                                                                    |
|                 | <b>2575.000<sup>2)</sup></b>                                                      | <b>2572.000</b>                                                                   | <b>2535.000<sup>2)</sup></b>                                                      | <b>2536.000</b>                                                                    |

<sup>1)</sup> With 2 keys

<sup>2)</sup> Lock no. 3524 E



### Cam lock, stainless steel

for AX, KX E-Box

With double-bit insert.

**Material:**

- Made entirely from stainless steel 1.4404 (AISI 316L)

| For      | Packs of | Model No.       |
|----------|----------|-----------------|
| AX       | 1 pc(s). | <b>2304.100</b> |
| KX E-Box | 1 pc(s). | <b>2309.110</b> |



**Accessories:**

- Lock inserts, type A, see page 941



### Lock cylinder inserts

| Type            | B                                                                                   | C                                                                                    |
|-----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                 |  |  |
|                 | With lock no. 3524 E <sup>1)</sup>                                                  | With lock no. 3524 E <sup>1)</sup>                                                   |
| Installation in | IW                                                                                  | Console lid TP, stainless steel                                                      |
| Material        | Die-cast zinc                                                                       | Die-cast zinc                                                                        |
|                 | <b>Model No.</b>                                                                    |                                                                                      |
|                 | <b>2571.000</b>                                                                     | <b>2525.000</b>                                                                      |

<sup>1)</sup> With two keys



# Doors/locks

## Lock systems



### Multiple lock

#### for 6 padlocks

The ideal solution in cases where several people need individual access for maintenance and repair purposes.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

| Packs of | Model No. |
|----------|-----------|
| 2 pc(s). | 2493.500  |



### Lock cover

#### for AX/AX IT, prepared for a lead seal

For retrospective mounting on all compact enclosures AX, sheet steel, with cam lock.

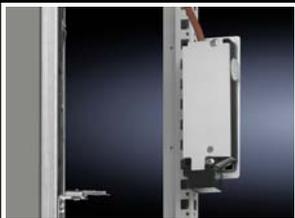
#### Material:

- Polyamide

#### Colour:

- RAL 7035

| Packs of | Model No. |
|----------|-----------|
| 2 pc(s). | 2476.100  |



### Safety lock

Fitted to doors, to protect against contact with live electrical equipment whilst the master switch is ON.

#### Function:

- Locks the door when the master switch is ON.
- Mains power (voltage) is only enabled whilst the door is closed.
- Monitoring of the lock magnet via an additional closing contact.

#### Supply includes:

- Lock
- Actuator
- Angle bracket
- Assembly parts

| Connection voltage for lock magnet | Model No. |
|------------------------------------|-----------|
| 230 V AC 11 VA                     | 2416.000  |
| 24 V DC 8 W                        | 2418.000  |
| 120 V AC 8 VA                      | 2419.000  |



#### Also required:

- For twin-door enclosures (for the overlapping door, to indicate "enclosure door closed"): Door-operated switch 4127.010, see page 1024

### Enclosure key

For lock inserts. Enclosure, case and lock systems are supplied as standard with matching keys.

|                          |  |  |  |  |
|--------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                          | <b>Model No.</b>                                                                  |                                                                                   |                                                                                   |                                                                                    |
|                          | -                                                                                 | -                                                                                 | <b>2549.000</b>                                                                   | <b>2549.500<sup>2)3)</sup></b>                                                     |
| Double-bit no. 5         | <b>2531.000</b>                                                                   | -                                                                                 | ■                                                                                 | ■                                                                                  |
| Security lock no. 3524 E | -                                                                                 | <b>2532.000<sup>1)</sup></b>                                                      | -                                                                                 | -                                                                                  |
| 7 mm triangular          | <b>2545.000</b>                                                                   | -                                                                                 | -                                                                                 | ■                                                                                  |
| 8 mm triangular          | <b>2546.000</b>                                                                   | -                                                                                 | ■                                                                                 | ■                                                                                  |
| 7 mm square              | <b>2547.000</b>                                                                   | -                                                                                 | -                                                                                 | ■                                                                                  |
| 8 mm square              | <b>2548.000</b>                                                                   | -                                                                                 | ■                                                                                 | ■                                                                                  |
| For HD locks             | <b>2549.600</b>                                                                   | -                                                                                 | -                                                                                 | -                                                                                  |
| For Daimler              | <b>2521.000</b>                                                                   | -                                                                                 | -                                                                                 | -                                                                                  |
| For Fiat                 | <b>2308.000</b>                                                                   | -                                                                                 | -                                                                                 | -                                                                                  |

<sup>1)</sup> Packs of 2

<sup>2)</sup> With bit adaptor and reversible bit for: Multi-tooth size 25 and 30

<sup>3)</sup> Bit 2549.510 for HD lock insert, see page 224



# Doors/locks

## Lock systems



### Comfort handle VX

#### with numerical code, for VX, VX IT

Flexible access opportunities with individual 4-digit code.

#### Benefits:

- Enhanced security by automatically wiping the code after use
- Emergency opening and overwriting of the code is possible with a 40 mm profile half-cylinder to DIN 18 252

#### Functional principle:

- The 4-digit code may be set individually by the user
- Programming mode can only be accessed via the set code
- Once the code has been entered or used, it is automatically reset to the digits "0000" and thus cannot be read by a third person once the handle has been opened
- May be opened in an emergency situation or if the code is forgotten using the master key function with key

#### Dimensions:

- W x H x D: 41 x 386 x 46 mm, door-mounted

#### Material:

- Die-cast zinc
- Plastic

#### Colour:

- RAL 9005

#### Protection category IP to IEC 60 529:

- IP 30

| Packs of | Model No. |
|----------|-----------|
| 1 pc(s). | 7030.601  |

#### Supply includes:

- Comfort handle for profile half-cylinders
- Handle adaptor for VX IT aluminium glazed door and VX IT aluminium sheet steel door, vented (door hinge on right/left)
- Assembly parts



#### Also required:

- Profile half-cylinders, see page 942



#### Accessories:

- Mounting adaptor for TS 8 doors, see page 948



### CMC III online comfort handle VX

#### with master key function for VX, VX IT

For door locking, handle lever monitoring and status display. It can be opened directly via a 24 V DC supply voltage or connected to the CMC III via the CMC III Access Control.

#### Benefits:

- Remote control and an extensive range of functions for automated access control by linking to the CMC III, e.g. activation via an optional coded lock or transponder reader
- Optical LED status display of the handle or superordinate CMC III system in the rack
- Individual activation and colour selection configurable via the CMC III
- Prepared for use of a 40 mm profile half-cylinder to DIN 18 252

#### Technical specifications:

- Rated voltage: 24 V DC
- Rated current: 100 mA

#### Dimensions:

- W x H x D: 41 x 386 x 42 mm, door-mounted

#### Material:

- Die-cast zinc
- Plastic

#### Colour:

- RAL 9005

#### Protection category IP to IEC 60 529:

- IP 30

| Packs of | Model No. |
|----------|-----------|
| 1 pc(s). | 7030.611  |

#### Supply includes:

- Comfort handle for profile half-cylinders
- Connection cable RJ12, 2.9 m
- Handle adaptor for VX IT aluminium glazed door and VX IT aluminium sheet steel door, vented (door hinge on right/left)
- Assembly parts



#### Also required:

- Profile half-cylinders, see page 942



#### Accessories:

- CMC III access control, see page 812
- CMC III Processing Unit/Compact, from page 804
- CMC III coded lock VX, see page 813
- CMC III transponder reader VX, see page 813

### Radio comfort handle VX

#### with card reader for VX, VX IT

Battery operated radio handle for door locking, handle lever/rack door monitoring and status display.

#### Benefits:

- Supports remote control via radio by linking to CMC III
- Stand-alone operation supported
- Easily retrofitted without any machining thanks to radio technology
- Optical LED status display of the handle or superordinate CMC III system in the rack
- Individual activation and colour selection configurable via CMC III
- Service life of the integral batteries is up to 2 years.
- Supports use of the handle without radio technology, connection to CMC III via optional online adaptor
- High standard of security thanks to encrypted radio transmission of security-relevant signals using Advanced Encryption Standard 128 Bit (AES 128)

#### Functional principle:

- Battery operation: EnOcean 868 MHz radio technology with encryption
- Operation with CMC III: Up to 128 radio handles on one CMC III system
- Stand-alone operation: Handle settings via master card or Android app "Access Control VX" with NFC-enabled smartphone
- Supports emergency opening via an integral USB-C-slot, transponder handle and external power supply
- Integral transponder card reader for Legic Advant, HID, FeliCa and NFC via Android app (Legic Prime available on request)
- Integral monitoring of lever handle
- Integral rack door monitoring of the handle position with a compass signal or infrared sensor

#### Dimensions:

- W x H x D: 41 x 377 x 27 mm, door-mounted

#### Material:

- Die-cast zinc
- Plastic

#### Colour:

- RAL 9005

#### Protection category IP to IEC 60 529:

- IP 30

#### Supply includes:

- Handle
- 2 batteries, type CR123A
- Handle adaptor for VX IT aluminium glazed door and VX IT aluminium sheet steel door, vented (door hinge on right/left)
- 1 Mifare classic transponder card
- Assembly parts

|          |                  |
|----------|------------------|
| Packs of | <b>Model No.</b> |
| 1 pc(s). | <b>7030.621</b>  |

#### Max. number of radio comfort handles/sensors

|                |                         |                 |
|----------------|-------------------------|-----------------|
| Wireless Units | Processing Unit Compact | Processing Unit |
| 16             | 0                       | 128             |

#### Operating modes/transponder cards

|                   |                           |                                      |
|-------------------|---------------------------|--------------------------------------|
| Operating mode    | Setting of user cards     | Max. number of user cards per handle |
| Stand-Alone       | Master card               | 10                                   |
| Stand-Alone       | Android App + Master card | 50                                   |
| CMC III via radio | CMC III                   | 1000                                 |



#### Also required:

- Only for remote control via the CMC III: CMC III Wireless Unit, see page 815  
CMC III Processing Unit/-Compact, from page 804



#### Accessories:

- Transponder card, see page 814
- Online adaptor for radio comfort handle, see page 948
- VX mounting adaptor for TS 8 doors, see page 948



# Doors/locks

## Lock systems



### Mounting adaptor

**for comfort handle VX with numerical code,  
radio comfort handle VX**

For mounting VX handles on doors

**Colours:**

- RAL 9005

**Supply includes:**

- Adaptor
- Coupling element
- Adaptor for TS glazed aluminium door
- Assembly parts

| To fit enclosure type | Packs of | Model No.       |
|-----------------------|----------|-----------------|
| TS 8                  | 1 pc(s). | <b>7030.692</b> |



### Online adaptor

**for radio comfort handle VX**

For converting the VX radio comfort handle to a wired solution. The adaptor is inserted into the VX radio comfort handle instead of the batteries.

**Application:**

- Deactivation of radio technology

**Functional principle:**

- Control via connection cable and 24 V DC power supply instead of batteries
- Connection to CMC III access control system is also optionally supported

**Technical specifications:**

- Rated voltage: 24 V DC
- Rated current: 100 mA

**Dimensions:**

- W x H x D: 34 x 33 x 21 mm

**Material:**

- Plastic

**Supply includes:**

- Connection cable RJ12, 2.9 m

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>7030.624</b> |



**Also required:**

- Radio comfort handle VX, see page 947



**Accessories:**

- CMC III access control, see page 812
- CMC III Processing Unit/Compact, from page 804



### Cable routing kit for doors

**VX, VX IT**

For optimised cable routing on the inside of the VX enclosure system doors when using a CMC III handle.

**Benefits:**

- The duct cover and the ring cable holder may be shortened to any desired length

**Functional principle:**

- When installing handles or reader units with cables, these will need to be laid close to the inside of the door. The cables are routed in the aluminium extrusion of the doors.
- To close the duct, the duct cover simply snaps onto the profile.
- For cable routing with ventilated or sheet steel doors, the ring cable holder is glued to the inside of the door.

**Material:**

- Plastic

**Colour:**

- Pale grey

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>7030.695</b> |

**Supply includes:**

- Duct cover, 2 m
- 4 ring cable holders, 0.5 m
- Assembly parts

### Mini-comfort handle

for EL 3-part, 3 – 15 U

Prepared for the installation of lock inserts or for the installation of standard commercially available 40 or 45 mm profile half-cylinders, as well as lock and push-button inserts.

|                                            |  |  |
|--------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                            | For lock inserts                                                                  | For profile half-cylinders                                                         |
|                                            | <b>Model No.</b>                                                                  |                                                                                    |
| Die-cast zinc RAL 7035                     | <b>7705.110</b>                                                                   | <b>7705.120</b>                                                                    |
| <b>Lock inserts, type F<sup>6)</sup></b>   |                                                                                   |                                                                                    |
| 7 mm square                                | 8611.100                                                                          | –                                                                                  |
| 8 mm square                                | 8611.110                                                                          | –                                                                                  |
| 7 mm triangular                            | 8611.120                                                                          | –                                                                                  |
| 8 mm triangular                            | 8611.130                                                                          | –                                                                                  |
| Screwdriver                                | 8611.140                                                                          | –                                                                                  |
| Daimler insert                             | 8611.150                                                                          | –                                                                                  |
| 3 mm double-bit                            | 8611.160                                                                          | –                                                                                  |
| Fiat                                       | 8611.170                                                                          | –                                                                                  |
| 6.5 mm triangular                          | 8611.220                                                                          | –                                                                                  |
| <b>Lock and push-button inserts</b>        |                                                                                   |                                                                                    |
| Lock insert, lock no. 3524 E <sup>1)</sup> | 8611.180                                                                          | 2467.000                                                                           |
| Push-button insert                         | 8611.190                                                                          | 2468.000                                                                           |
| Push-button and lock insert <sup>1)</sup>  | 8611.200 <sup>2)</sup>                                                            | 2469.000 <sup>3)</sup>                                                             |
| <b>Profile half-cylinders</b>              |                                                                                   |                                                                                    |
| to DIN 18 252 <sup>4)</sup>                | –                                                                                 | 9785.040 <sup>7)</sup>                                                             |
|                                            | –                                                                                 | 9785.042 <sup>5)</sup>                                                             |

<sup>1)</sup> With 2 keys

<sup>2)</sup> Lock no. 12321, no other lock is possible

<sup>3)</sup> Lock no. 2123, no other lock is possible

<sup>4)</sup> With 3 keys for each lock insert

<sup>5)</sup> Packs of two, simultaneous locking within the same pack, no simultaneous locking for different packs

<sup>6)</sup> Replacement of the complete system only (handle including lock inserts)

<sup>7)</sup> Lock-specific key

### Ergoform-S handle

with numerical code, for TE

Flexible access options thanks to individual 3-digit numerical code without key, or via the master key function with the additional use of 40 or 45 mm profile half-cylinders to DIN 18 252, independently of the code.

| Colour   | Packs of | Model No.       |
|----------|----------|-----------------|
| RAL 7035 | 1 pc(s). | <b>7200.810</b> |

#### Accessories:

- Profile half-cylinders, see page 942
- Lock inserts, type A, see page 941



# Doors/locks

## Lock systems



### Ergoform-S handle

#### electromagnetic, for TE

For door locking and handle lever monitoring.

If the 24 V DC voltage supply is applied, the handle cannot be opened with the push-button insert.

The handle may be connected to the CMC III via the CMC III access control and activated in this way.

The push-button insert may be replaced with a lock insert or a profile half-cylinder, 40 or 45 mm to DIN 18 252.

#### Technical specifications:

- Rated voltage: 24 V DC
- Rated current: 100 mA

#### Supply includes:

- Handle including cable 0.4 m
- Push-button insert
- Connection cable RJ12, 3 m

| Colour   | Packs of | Model No. |
|----------|----------|-----------|
| RAL 7035 | 1 pc(s). | 7320.700  |

#### + Accessories:

- Profile half-cylinders, see page 942
- Lock inserts, type A, see page 941
- CMC III access control, see page 812
- CMC III Processing Unit/Compact, see page 804



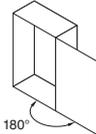
### 180° hinges

**Supply includes:**

- Assembly parts

**Note:**

- The protection category of the enclosure may be reduced
- Door hinge remains the same within a bayed enclosure suite

| Enclosure type                                   | Door variant                                                  | Material                        | Colour               | Packs of |  |  |
|--------------------------------------------------|---------------------------------------------------------------|---------------------------------|----------------------|----------|------------------------------------------------------------------------------------|--|
|                                                  |                                                               |                                 |                      |          | Model No.                                                                          |  |
| VX25                                             | Sheet steel door                                              | Steel/precision-cast            | RAL 7035             | 4 pc(s). | <b>8618.330<sup>1)</sup></b>                                                       |  |
|                                                  | Stainless steel door                                          | Stainless steel/precision-cast  | –                    | 4 pc(s). | <b>8618.335<sup>1)</sup></b>                                                       |  |
| VX SE                                            | Sheet steel door                                              | Die-cast zinc                   | RAL 7035             | 4 pc(s). | <b>8800.190</b>                                                                    |  |
|                                                  |                                                               |                                 | Matt nickel-plated   |          | <b>8701.180</b>                                                                    |  |
| VX SE                                            | Doors with high dynamic loads, door installations up to 900 N | Precision casting/die-cast zinc | RAL 7035             | 4 pc(s). | <b>8800.710</b>                                                                    |  |
| VX IT bayed enclosure suites with comfort handle | Sheet steel doors                                             | Die-cast zinc                   | RAL 7035<br>RAL 9005 | 4 pc(s). | <b>5301.400</b>                                                                    |  |
|                                                  | Aluminium doors                                               | Die-cast zinc                   | RAL 9005             |          | <b>5301.401</b>                                                                    |  |
| AX/AX IT                                         | Sheet steel door                                              | Die-cast zinc                   | –                    | 3 pc(s). | <b>2449.010</b>                                                                    |  |

<sup>1)</sup> May be mounted without machining the door, suitable for door installations up to 900 N

### Cover hinge

**for terminal boxes KX**

The cover hinge is simply screw-fastened to the enclosure protection channel and to the edge fold. The position of the installation holes is prepunched, so no need to measure and mark out.

**Supply includes:**

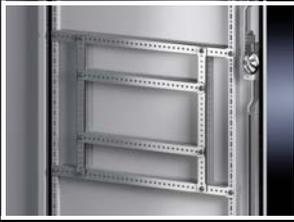
- Cover hinge
- Stoppers
- Assembly parts

| Material                           | Packs of | Model No.       |
|------------------------------------|----------|-----------------|
| Die-cast zinc                      | 6 pc(s). | <b>1592.200</b> |
| Stainless steel 1.4404 (AISI 316L) | 2 pc(s). | <b>1592.210</b> |



# Doors/locks

## Door, internal



### Support strip

For attachment of

- Cable ducts
- Cable conduit holders
- Contact hazard protection covers
- Equipment installed on the door
- Cable clamping and attachment

4.5 mm diameter hole on a 25 mm DIN pitch pattern

### For VX, VX SE, AX plastic, TP, PC, IW

#### Installation options:

- In VX, VX SE, PC, IW on tubular door frame
- TP on perforated door strip
- In AX plastic on mounting boss in the door

### For AX

#### Installation options:

- In AX sheet steel in the enclosure door with cam lock
- In AX stainless steel in enclosure door with cam lock in conjunction with perforated door strip

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts



#### Accessories:

- Screws and self-tapping screws M5, see page 1004

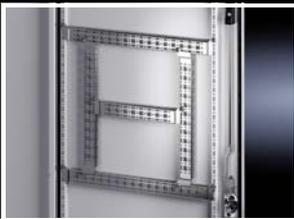
| For door width mm | Distance between attachment points mm | Packs of  | Model No.       |
|-------------------|---------------------------------------|-----------|-----------------|
| 400               | 275                                   | 20 pc(s). | <b>4594.000</b> |
| 500               | 375                                   | 20 pc(s). | <b>4309.000</b> |
| 600               | 475                                   | 20 pc(s). | <b>4596.000</b> |
| 800               | 675                                   | 20 pc(s). | <b>4598.000</b> |
| 900               | 775                                   | 20 pc(s). | <b>4579.000</b> |
| 1000              | 875                                   | 20 pc(s). | <b>4599.000</b> |

| For door width mm | Distance between attachment points mm | Packs of  | Model No.       |
|-------------------|---------------------------------------|-----------|-----------------|
| 380               | 305                                   | 20 pc(s). | <b>4599.100</b> |
| 400               | 325                                   | 20 pc(s). | <b>4694.000</b> |
| 500               | 425                                   | 20 pc(s). | <b>4695.000</b> |
| 600               | 525                                   | 20 pc(s). | <b>4696.000</b> |
| 760               | 685                                   | 20 pc(s). | <b>4599.200</b> |
| 800               | 725                                   | 20 pc(s). | <b>4697.000</b> |



#### Also required:

- For installation in AX stainless steel: AX perforated door strip, stainless steel, see page 953



### Punched section with mounting flange, 14 x 39 mm

for door installation, for VX, VX SE, AX, AX plastic, PC, IW

Secure location and fast mounting on the tubular door frame.

For attaching

- Cable ducts
- Cable conduit holders
- Equipment installed on the door, etc.

#### Installation options:

- In VX, VX SE, PC, IW on tubular door frame
- In AX sheet steel in the enclosure door with 3-point lock system in the lockable door
- In AX stainless steel in enclosure door with 3-point lock system in the lockable door in conjunction with perforated door strip
- In AX plastic on mounting boss in the door

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| For door width mm | Distance between attachment points mm | Packs of | Model No.       |
|-------------------|---------------------------------------|----------|-----------------|
| 400               | 275                                   | 4 pc(s). | <b>8619.700</b> |
| 500               | 375                                   | 4 pc(s). | <b>8619.710</b> |
| 600               | 475                                   | 4 pc(s). | <b>8619.720</b> |
| 800               | 675                                   | 4 pc(s). | <b>8619.730</b> |
| 900               | 775                                   | 4 pc(s). | <b>8619.740</b> |
| 1000              | 875                                   | 4 pc(s). | <b>8619.750</b> |



#### Also required:

- For installation in AX stainless steel: AX perforated door strip, stainless steel, see page 953



#### Accessories:

- Screws and self-tapping screws M5 for configuring the customer's own components on the punched section with mounting flange, see page 1004

# Doors/locks

## Door, internal

### Spacers

The universal assembly component for all situations where a distance from the mounting level is required. With self-tapping thread for 4.5 mm diameter holes. The following components may be attached to the rear using 5.5 x 13 mm screws:

- Top-hat / cross rails
- Contact hazard protection covers
- Master switch trim panels
- Cable clamp rails
- etc.

**Material:**

- Hexagonal steel (SW8)

**Surface finish:**

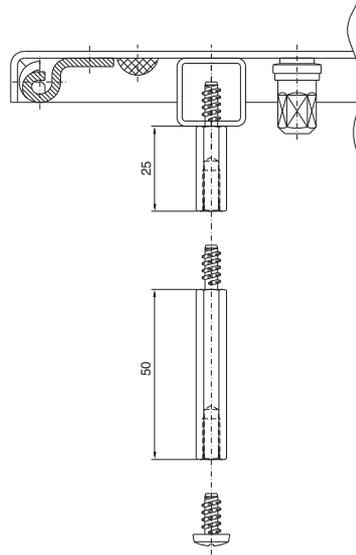
- Zinc-plated



**Accessories:**

- Screws 5.5 x 13 mm, see page 1004

| Length mm | Packs of  | Model No.       |
|-----------|-----------|-----------------|
| 25        | 12 pc(s). | <b>2311.225</b> |
| 50        | 12 pc(s). | <b>2311.250</b> |



### Perforated door strip

**for AX stainless steel**

For vertical mounting on the threaded bolts of the door.

For attaching

- Support strips
- Punched section with mounting flange, 14 x 39 mm
- Door stay

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

| For door height mm | Packs of | Model No.       |
|--------------------|----------|-----------------|
| 760                | 2 pc(s). | <b>2311.076</b> |
| 1000               | 2 pc(s). | <b>2311.100</b> |
| 1200               | 2 pc(s). | <b>2311.120</b> |



**Accessories:**

- Support strip, see page 952
- Punched section with mounting flange, 14 x 39 mm, see page 952
- Door stay, see page 956
- Screws, see page 1004



### Utility lectern

**for VX, VX SE, TP, PC**

For programming units etc., prepared for mounting on the tubular door frame. When required for servicing, it folds out quickly with a maximum support area, and after use is lowered between the tubular door frames in a space-saving design.

**Load capacity:**

- Max. 300 N

**Material:**

- Sheet steel

**Colour:**

- RAL 7035

| Support area |          | For door width mm | Model No.       |
|--------------|----------|-------------------|-----------------|
| Width mm     | Depth mm |                   |                 |
| 413          | 400      | 600               | <b>4638.600</b> |
| 613          | 400      | 800               | <b>4638.800</b> |



# Doors/locks

## Door, internal



### Wiring plan lectern

for VX, VX SE, TP, PC

Holds wiring plans during fault-finding and maintenance work. Wiring plan lecterns may be bayed in line with the door width. For mounting on the tubular door frame.

**Material:**

- Utility lectern: Polypropylene
- Mounting bracket: Die-cast zinc

**Colour:**

- Similar to RAL 7035

**Supply includes:**

- Wiring plan lectern (width 210 mm)
- Assembly parts

|          |                  |
|----------|------------------|
| Packs of | <b>Model No.</b> |
| 1 pc(s). | <b>4120.000</b>  |

| For door width mm | Required/possible number of wiring plan lecterns |      |
|-------------------|--------------------------------------------------|------|
|                   | min.                                             | max. |
| 400               | 1                                                | 1    |
| 500               | 1                                                | 1    |
| 600               | 2                                                | 2    |
| 800               | 2                                                | 3    |
| 1000              | 3                                                | 3    |



### Storage box

For fixing to all flat, clean surfaces with double-sided adhesive tape. Secure storage of CDs/DVDs, small parts such as fuses etc.

**Capacity:**

- Max. 10 CDs/DVDs

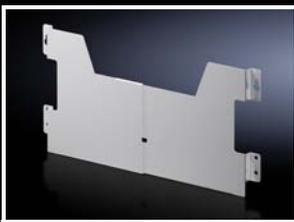
**Material:**

- Polyamide

**Colour:**

- RAL 7035

|          |                  |
|----------|------------------|
| Packs of | <b>Model No.</b> |
| 1 pc(s). | <b>2446.000</b>  |



### Wiring plan pocket, sheet steel

width-variable, for AX

For fastening to the perforated door strip at any height. Variable and easily adjustable in the width.

Depth: 35 mm

**Colour:**

- RAL 7035

**Supply includes:**

- Assembly screws

| To fit door width mm | Clearance opening mm |        | <b>Model No.</b> |
|----------------------|----------------------|--------|------------------|
|                      | Width                | Height |                  |
| 400, 500             | 325 - 425            | 210    | <b>2515.200</b>  |
| 600                  | 475 - 575            | 210    | <b>2515.300</b>  |
| 760, 800             | 625 - 725            | 210    | <b>2515.400</b>  |



**Also required:**

- For installation in AX stainless steel: AX perforated door strip, stainless steel, see page 953



# Doors/locks

## Door, internal

### Wiring plan pocket, sheet steel

for VX, VX SE, TP pedestal, PC

For fastening to tubular door frames at any height.

**Colour:**

– RAL 7035

**Supply includes:**

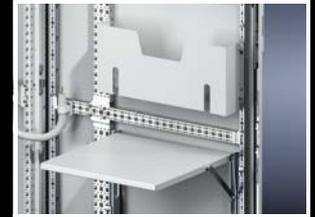
– Assembly parts

**D = 90 mm**

| To fit door width<br>mm | Clearance opening<br>mm |     | Model No.       |
|-------------------------|-------------------------|-----|-----------------|
|                         | W                       | H   |                 |
| 400                     | 255                     | 210 | <b>4114.000</b> |
| 500                     | 355                     | 210 | <b>4115.000</b> |
| 600                     | 455                     | 210 | <b>4116.000</b> |
| 800                     | 655                     | 210 | <b>4118.000</b> |
| 900                     | 755                     | 210 | <b>4123.000</b> |
| 1000                    | 855                     | 210 | <b>4124.000</b> |

**D = 35 mm**

| To fit door width<br>mm | Clearance opening<br>mm |     | Model No.       |
|-------------------------|-------------------------|-----|-----------------|
|                         | W                       | H   |                 |
| 500                     | 355                     | 210 | <b>4115.500</b> |
| 600                     | 455                     | 210 | <b>4116.500</b> |
| 800                     | 655                     | 210 | <b>4118.500</b> |



### Plastic wiring plan pocket

For adhering to surfaces.

**Material:**

– Polystyrene with self-adhesive fastening strips

**Colour:**

– Similar to RAL 7035

| For format   | Clearance opening<br>mm |     |    | Model No.       |
|--------------|-------------------------|-----|----|-----------------|
|              | W                       | H   | D  |                 |
| A3 landscape | 438                     | 286 | 45 | <b>2513.000</b> |
| A4 portrait  | 228                     | 254 | 17 | <b>2514.000</b> |
| A5 landscape | 228                     | 174 | 17 | <b>2515.000</b> |



### Wiring plan pocket with transparent pouch

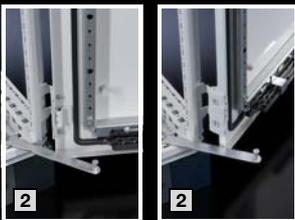
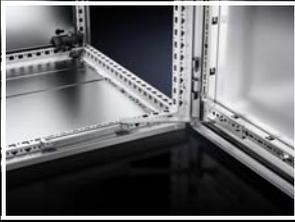
With welded-on transparent pouch and self-adhesive backing.

| For format | Model No.       |
|------------|-----------------|
| A4         | <b>2510.000</b> |
| A3         | <b>2512.000</b> |



# Doors/locks

## Door, internal



### Door stay

To secure the door in the open position. May be fitted without machining the enclosure/housing.

**Supply includes:**

- Assembly parts

| For                                   | Mounting | Packs of | Model No.       |
|---------------------------------------|----------|----------|-----------------|
| VX                                    | bottom   | 1 pc(s). | <b>8618.430</b> |
| VX SE,<br>TP universal console,<br>PC | bottom   | 5 pc(s). | <b>4583.000</b> |
| TP                                    | top      | 2 pc(s). | <b>2519.200</b> |
| AX sheet steel<br>AX stainless steel  | top      | 1 pc(s). | <b>2519.010</b> |



**Also required:**

- For installation in AX sheet steel:  
AX rail for interior installation in the appropriate depth, see page 989
- For installation in AX stainless steel:  
AX perforated door strip, stainless steel, see page 953

### Door stay for escape routes

In an emergency situation, conventional door stays could block the escape route. The stay is activated automatically by pressure, releasing the door in both directions. In conjunction with 180° hinges, this ensures that no escape routes are blocked by open doors in the event of an emergency.

**Supply includes:**

- Assembly parts

| For                | Packs of | Model No.       |
|--------------------|----------|-----------------|
| <b>1</b> VX        | 1 pc(s). | <b>8618.425</b> |
| <b>2</b> VX SE, PC | 1 pc(s). | <b>4583.500</b> |



**Accessories:**

- 180° hinge, see page 951

### Ride-up roller

**for door VX, VX SE, PC**

Lifts up the door when there is heavy installed equipment (e.g. cooling unit) as a closing aid. For attaching to the tubular door frame.

| For                | Packs of  | Model No.       |
|--------------------|-----------|-----------------|
| <b>1</b> VX        | 10 pc(s). | <b>8618.420</b> |
| <b>2</b> VX SE, PC | 10 pc(s). | <b>4538.000</b> |

# Doors/locks

## Door, internal

### Shipping brace

#### for door VX

To stabilise the door when transporting from an additional weight load of 15 kg.

**Material:**

- Plastic

**Colour:**

- RAL 7035

**Supply includes:**

- Assembly parts

| Packs of  | Model No. |
|-----------|-----------|
| 10 pc(s). | 8618.410  |



### Transport and mounting handle

#### for doors VX, VX SE

For safe installation and removal of the door and during relocation in the workshop.

| Packs of | Model No. |
|----------|-----------|
| 1 pc(s). | 2415.100  |



### Document clip, magnetic

For simple attachment of installation documentation as a reminder or for flexible accommodation of a wide range of documents, measurement records, test reports etc. May be attached to any magnet-compatible surface via a permanent magnet.

**Material:**

- Plastic

**Colour:**

- Clip: Transparent
- Handle pieces: Black

| Packs of | Model No. |
|----------|-----------|
| 2 pc(s). | 7950.200  |



### Alternate frame, magnetic

For individual marking or labelling of the existing network infrastructure. The magnetic surface facilitates flexible mounting on all magnet compatible surfaces. Adhesive strips are supplied for non-magnetic surfaces. The maximum size of the labels is 130 x 50 mm.

| Packs of  | Model No. |
|-----------|-----------|
| 10 pc(s). | 7950.150  |



# Roof/wall mounting

## Roof



### Outdoor housing

#### for compact enclosures AX

- For use outdoors
- For creating an enclosure-within-an-enclosure concept
- Cut-out at the bottom and integrated louvres in the side and base for optimum enclosure ventilation

#### Material:

- Aluminium AlMg3

#### Surface finish:

- Powder-coated

#### Note:

- Depending on the application/environment, a sheet steel or stainless steel enclosure may be built into the housing

| Housing<br>W x H x D mm | For AX enclosures<br>W x H x D mm | Packs<br>of | ModelNo.        |
|-------------------------|-----------------------------------|-------------|-----------------|
| 421 x 550 x 308         | 300 x 400 x 210                   | 1 pc(s).    | <b>9792.055</b> |
| 621 x 650 x 308         | 500 x 500 x 210                   | 1 pc(s).    | <b>9792.065</b> |
| 721 x 750 x 448         | 600 x 600 x 350                   | 1 pc(s).    | <b>9792.075</b> |



#### Also required:

- Wall mounting bracket for AX, sheet steel, see page 966
- or wall mounting bracket for AX, stainless steel, see page 967



#### Accessories:

- Pole clamp, see page 968

### Protective roof

#### for AX

The sloping protective roof reliably protects the enclosure from standing moisture and other soiling from above.

#### Material:

- Stainless steel 1.4301 (AISI 304)

#### Surface finish:

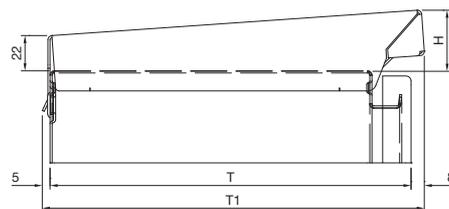
- Brushed, grain size 240

#### Supply includes:

- Assembly parts

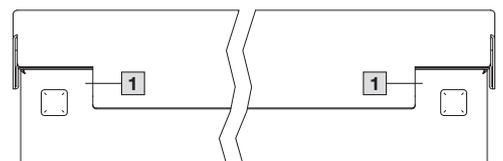
| For                   |                         | H<br>mm | Model No.       |
|-----------------------|-------------------------|---------|-----------------|
| Enclosure width<br>mm | Enclosure depth T<br>mm |         |                 |
| 300                   | 210                     | 37      | <b>2361.010</b> |
| 380                   | 210                     | 37      | <b>2472.010</b> |
| 500                   | 210                     | 37      | <b>2362.010</b> |
| 600                   | 210                     | 37      | <b>2473.010</b> |
| 600                   | 350                     | 47      | <b>2476.010</b> |
| 760                   | 300                     | 43      | <b>2474.010</b> |
| 800                   | 300                     | 43      | <b>2475.010</b> |
| 1000                  | 300                     | 43      | <b>2363.010</b> |

Side view



$T1 = \text{Enclosure depth } T + 13 \text{ mm}$

Rear view



**1** Recess for wall mounting bracket

# Roof/wall mounting

## Roof

### Dust guard trim

#### for AX, KX

To protect against deposits on the upper edge of the door and between the enclosure and the door/cover. Cut the dust guard trim to length according to the enclosure width. Drill the enclosure and fit the dust guard trim using the adhesive strips and screws.

#### Material:

- Plastic, UV-resistant

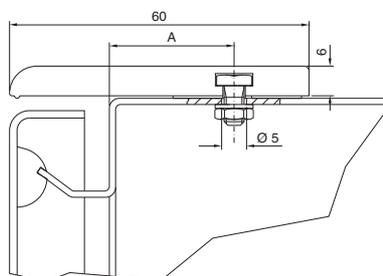
#### Colour:

- Similar to RAL 7024

#### Supply includes:

- Assembly parts

| For enclosure | Length mm | A mm | Model No. |
|---------------|-----------|------|-----------|
| AX            | 1200      | 21.5 | 2426.500  |
| KX            |           | 21   |           |



### Dust guard trim

#### for VX, VX SE

To protect against dust deposits on the upper edge of the door and between the door and upper horizontal enclosure section. The dust guard trim provides space for texts or company logos.

#### Colour:

- RAL 7035

#### Supply includes:

- Clear plastic strip for text labels (height 29.5 mm)
- Assembly parts

| Length mm | Model No. |
|-----------|-----------|
| 600       | 2424.100  |
| 800       | 2425.100  |
| 1000      | 2427.100  |
| 1200      | 2426.100  |

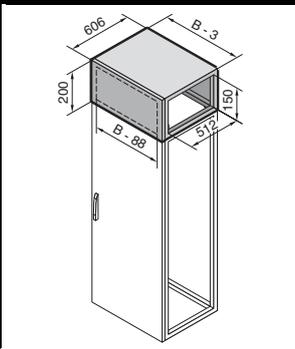
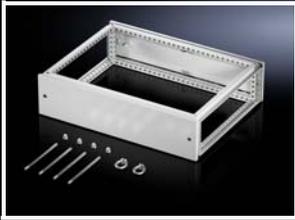
#### Note:

- Also suitable for use in conjunction with top baying cover, see page 915



# Roof/wall mounting

## Roof



### Top-mounting module

As a cable chamber for cable infeed from above, or for power distribution with busbar systems across bayed enclosures. The cover plate supplied as standard is used to finish off at the top. The enclosure height is increased by 200 mm with the top-mounting module fitted. Installation accessories for top and bottom, see diagram and explanations below.

**Material:**

- Sheet steel, 1.5 mm

**Surface finish:**

- Spray-finished, textured paint

**Colour:**

- RAL 7035

**Protection category IP to IEC 60 529:**

- IP 55

**Protection category NEMA:**

- NEMA 12

| For enclosures |          | Packs of | Model No.       |
|----------------|----------|----------|-----------------|
| Width (B) mm   | Depth mm |          |                 |
| 600            | 600      | 1 pc(s). | <b>8618.501</b> |
| 800            | 600      | 1 pc(s). | <b>8618.511</b> |
| 1000           | 600      | 1 pc(s). | <b>8618.521</b> |
| 1200           | 600      | 1 pc(s). | <b>8618.531</b> |

**Supply includes:**

- 1 frame module
- 2 trim panels (front and rear)
- 8 retainers with automatic potential equalisation
- Assembly parts



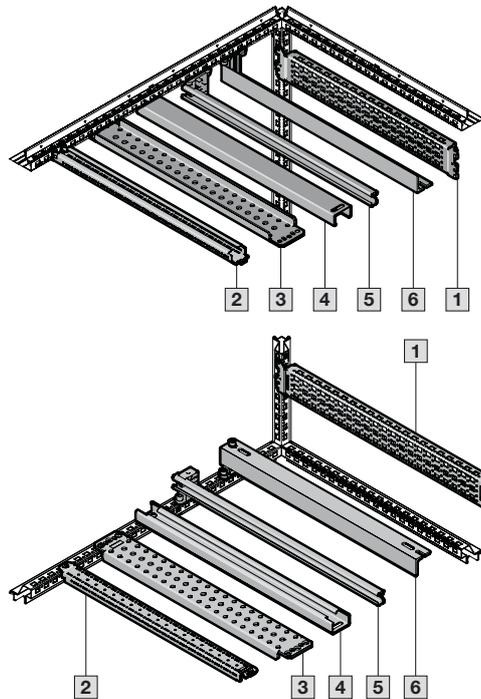
**Also required:**

- Side panel for top-mounting module 8618.541, see page 960



**Accessories:**

| Description                                                                    | Page |
|--------------------------------------------------------------------------------|------|
| <b>1</b> Punched section with mounting flange 23 x 64 mm (for the inner level) | 991  |
| <b>2</b> Punched rail 18 x 39 mm                                               | 993  |
| <b>3</b> Support rail 75 x 20 mm                                               | 996  |
| <b>4</b> Support rail 48 x 26 mm                                               | 996  |
| <b>5</b> C rail 30/15                                                          | 996  |
| <b>6</b> Cable clamp rail                                                      | 1059 |



### Side panel

**for top-mounting module**

To finish off the side of a top-mounting module or bayed suite.

**Material:**

- Sheet steel, 1.5 mm

**Surface finish:**

- Spray-finished, textured paint

**Colour:**

- RAL 7035

**Supply includes:**

- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 2 pc(s). | <b>8618.541</b> |

# Roof/wall mounting

## Roof

### Roof plate IP 55, solid

for VX, VX IT

For enclosures without roof plate and in exchange for the standard roof.

**Material:**

- Sheet steel, 1.5 mm

**Surface finish:**

- Textured paint

**Colour:**

- RAL 7035

**Protection category IP to IEC 60 529:**

- IP 55

**Supply includes:**

- Assembly parts

| For enclosures |          | Packs of | Model No.       |
|----------------|----------|----------|-----------------|
| Width mm       | Depth mm |          |                 |
| 400            | 600      | 1 pc(s). | <b>9681.646</b> |
| 400            | 800      | 1 pc(s). | <b>9681.648</b> |
| 600            | 600      | 1 pc(s). | <b>9681.666</b> |
| 600            | 800      | 1 pc(s). | <b>9681.668</b> |
| 600            | 1000     | 1 pc(s). | <b>9681.660</b> |
| 600            | 1200     | 1 pc(s). | <b>9681.662</b> |
| 800            | 600      | 1 pc(s). | <b>9681.686</b> |
| 800            | 800      | 1 pc(s). | <b>9681.688</b> |
| 800            | 1000     | 1 pc(s). | <b>9681.680</b> |
| 800            | 1200     | 1 pc(s). | <b>9681.682</b> |



**+** **Accessories:**

- Pressure stoppers, see page 962
- Eyebolt, see page 964

### Roof plate IP 2X with ventilation hole

for VX, VX IT

For enclosures without roof plate and in exchange for the standard roof.

**Material:**

- Sheet steel, 1.5 mm

**Surface finish:**

- Textured paint

**Colour:**

- RAL 7035

**Protection category IP to IEC 60 529:**

- IP 2X

**Supply includes:**

- Assembly parts

| For enclosures |          | Build height mm | Packs of | Model No.       |
|----------------|----------|-----------------|----------|-----------------|
| Width mm       | Depth mm |                 |          |                 |
| 400            | 600      | 72              | 1 pc(s). | <b>9681.846</b> |
| 400            | 800      | 72              | 1 pc(s). | <b>9681.848</b> |
| 600            | 600      | 72              | 1 pc(s). | <b>9681.866</b> |
| 600            | 800      | 72              | 1 pc(s). | <b>9681.868</b> |
| 800            | 600      | 72              | 1 pc(s). | <b>9681.886</b> |
| 800            | 800      | 72              | 1 pc(s). | <b>9681.888</b> |
| 1000           | 600      | 72              | 1 pc(s). | <b>9681.806</b> |
| 1000           | 800      | 72              | 1 pc(s). | <b>9681.808</b> |
| 1200           | 600      | 72              | 1 pc(s). | <b>9681.826</b> |
| 1200           | 800      | 72              | 1 pc(s). | <b>9681.828</b> |



### Roof plate for cable entry glands

for VX, VX IT

For enclosures without roof plate and in exchange for the standard roof.

**Material:**

- Sheet steel, 1.5 mm

**Surface finish:**

- Textured paint

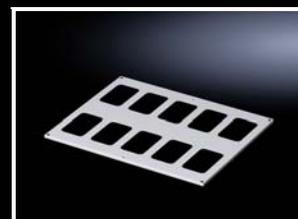
**Colour:**

- RAL 7035

**Supply includes:**

- Assembly parts

| For enclosures |          | Required no. of glands | Packs of | Model No.       |
|----------------|----------|------------------------|----------|-----------------|
| Width mm       | Depth mm |                        |          |                 |
| 400            | 600      | 3                      | 1 pc(s). | <b>9681.546</b> |
| 400            | 800      | 4                      | 1 pc(s). | <b>9681.548</b> |
| 600            | 400      | 2                      | 1 pc(s). | <b>9681.564</b> |
| 600            | 600      | 4                      | 1 pc(s). | <b>9681.566</b> |
| 600            | 800      | 8                      | 1 pc(s). | <b>9681.568</b> |
| 800            | 600      | 8                      | 1 pc(s). | <b>9681.586</b> |
| 800            | 800      | 8                      | 1 pc(s). | <b>9681.588</b> |
| 850            | 400      | 3                      | 1 pc(s). | <b>9681.594</b> |
| 850            | 600      | 6                      | 1 pc(s). | <b>9681.596</b> |
| 1100           | 400      | 4                      | 1 pc(s). | <b>9681.514</b> |
| 1100           | 600      | 8                      | 1 pc(s). | <b>9681.516</b> |

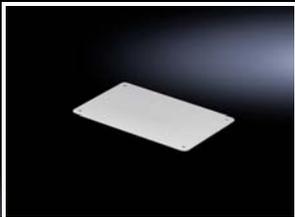
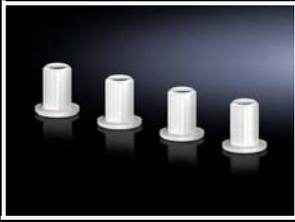


**!** **Also required:**

- Cable entry gland, see page 962
- Eyebolt, see page 964

# Roof/wall mounting

## Roof



### Pressure stoppers

#### for roof plate

For converting the IP 55 roof plate into a roof plate with pressure relief function. The pressure relief function is essential for compliance with health and safety regulations for arc-proofing to IEC/TR 61 641. After fitting the pressure stopper, a protection category of IP 54 is achieved.

#### Material:

- Polyamide

#### Supply includes:

- 2 warning stickers

#### Note:

- 2 pressure stoppers and 1 warning sticker are required for one roof plate
- The arc-proofing compliance limits are dependent on the busbar system used

| Packs of | Model No.       |
|----------|-----------------|
| 4 pc(s). | <b>9674.790</b> |

### Cable entry gland

#### for roof plate

For simple, secure cable entry in the roof zone.

#### Colour:

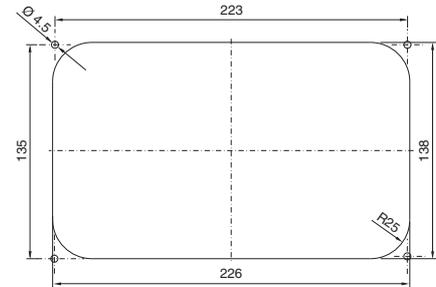
- RAL 7035

#### Protection category IP to IEC 60 529:

- IP 55

#### Supply includes:

- Seal



Cut-out dimensions for 9665.750 to 9665.785

| Version                                                                              | Material                       | Width mm | Depth mm | Packs of | Model No.       |
|--------------------------------------------------------------------------------------|--------------------------------|----------|----------|----------|-----------------|
| 14 x M25/32                                                                          | Insulating material            | 250      | 160      | 1 pc(s). | <b>9665.750</b> |
| 2 x M25/32/40,<br>1 x M32/40/50,<br>2 x M40/50/63                                    | Insulating material            | 250      | 160      | 1 pc(s). | <b>9665.760</b> |
| With sealing membranes<br>32 x Ø 7 – 16 mm,<br>4 x Ø 10 – 20 mm,<br>3 x Ø 14 – 26 mm | Insulating material            | 250      | 160      | 1 pc(s). | <b>9665.770</b> |
| With entry fittings<br>up to Ø 66 mm                                                 | Insulating material            | 250      | 160      | 1 pc(s). | <b>9665.780</b> |
| Solid                                                                                | Sheet steel,<br>spray-finished | 250      | 160      | 4 pc(s). | <b>9665.785</b> |

# Roof/wall mounting

## Roof

### Roof plate, two-piece

#### for cable entry for VX, VX IT

In exchange for the standard roof. Equipped with a sliding angular bracket in the rear section. Rubber cable clamp strip on both sides for attaching cable bundles and bunched cables.

Due to the symmetrical design of the VX frame, side cable entry can also be achieved by rotating the roof plate. The two-piece design allows convenient retrofitting.

#### Material:

- Sheet steel

#### Colour:

- RAL 7035

| For enclosures |          | Packs of | Model No.       |
|----------------|----------|----------|-----------------|
| Width mm       | Depth mm |          |                 |
| 600            | 600      | 1 pc(s). | <b>7826.665</b> |
| 600            | 800      | 1 pc(s). | <b>7826.685</b> |
| 600            | 1000     | 1 pc(s). | <b>7826.605</b> |
| 800            | 600      | 1 pc(s). | <b>7826.865</b> |
| 800            | 800      | 1 pc(s). | <b>7826.885</b> |
| 800            | 1000     | 1 pc(s). | <b>7826.805</b> |
| 800            | 1200     | 1 pc(s). | <b>7826.825</b> |

#### Protection category IP to IEC 60 529:

- IP 20

#### Supply includes:

- Assembly parts



### Brush kit for cable entry in the roof

#### for TE

For cable entry in the roof plate.

#### Benefits:

- For simple top-mounting on the cut-out edge

#### Material:

- Plastic support with brushes
- Brush strip: Plastic UL 94-V0
- Bristles: Plastic UL 94-HB

| For enclosure width mm | Bristle length mm | Width mm | Length mm | Packs of | Model No.       |
|------------------------|-------------------|----------|-----------|----------|-----------------|
| 600                    | 30                | 19       | 390       | 2 pc(s). | <b>7888.610</b> |
| 800                    | 30                | 19       | 590       | 2 pc(s). | <b>7888.612</b> |

### Cable organiser

#### for TE open

Cable routing plate for targeted routing of cables.

#### Applications:

- Optionally on the roof plate of the TE open

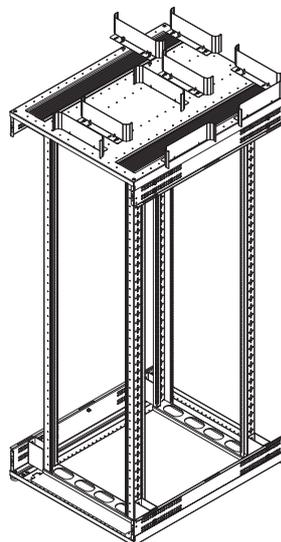
#### Material:

- Sheet steel, spray-finished

#### Colour:

- RAL 7035

| Packs of | Model No.       |
|----------|-----------------|
| 4 pc(s). | <b>7888.950</b> |



# Roof/wall mounting

## Roof



### Spacers

#### for roof plate

To raise the roof for ventilation purposes, in three different heights.

Thread: M12

#### Material:

- Hexagonal sectional steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| Height mm | Packs of | Model No.       |
|-----------|----------|-----------------|
| 10        | 4 pc(s). | <b>2422.000</b> |
| 20        | 4 pc(s). | <b>2423.000</b> |
| 50        | 4 pc(s). | <b>7967.000</b> |



### Eyebolt

#### for VX, VX SE

For transporting enclosures by crane.

Thread: M12

#### Supply includes:

- 4 eyebolts M12
- 4 serrated sealing washers A 12.5

| Material                          | Packs of | Model No.       |
|-----------------------------------|----------|-----------------|
| Sheet steel, zinc-plated, C 15E   | 4 pc(s). | <b>4568.000</b> |
| Stainless steel 1.4301 (AISI 304) | 4 pc(s). | <b>4568.500</b> |



### Eyebolt

#### for AX

For crane transportation of enclosures, with reinforcement plate to be inserted underneath.

Thread: M12

#### Supply includes:

- 2 eyebolts
- 2 reinforcement plates

| Packs of | Model No.       |
|----------|-----------------|
| 2 pc(s). | <b>2509.010</b> |



# Roof/wall mounting

## Wall mounting

### Wall mounting bracket

for **AX sheet steel, KX sheet steel, AX IT, EL**

For the attachment of sheet steel enclosures.

**Benefits:**

- Screw-fastened directly from the rear with a self-tapping screw in the enclosure eyelet

**Supply includes:**

- Assembly parts

| Material                 | Wall distance mm | Packs of | Model No.       |
|--------------------------|------------------|----------|-----------------|
| Sheet steel, zinc-plated | 10               | 4 pc(s). | <b>1590.010</b> |



### Wall mounting bracket

for **AX stainless steel, KX stainless steel, stainless steel switch housing**

For the attachment of stainless steel enclosures.

**Supply includes:**

- Assembly parts

**Note:**

- For hygiene reasons, and in view of the protection category, the stainless steel enclosures do not have any drilled holes for the wall mounting bracket.

| Material                          | Wall distance mm | Packs of | Model No.       |
|-----------------------------------|------------------|----------|-----------------|
| Stainless steel 1.4301 (AISI 304) | 10               | 4 pc(s). | <b>1594.010</b> |



# Roof/wall mounting

## Wall mounting



### Wall mounting bracket

for AX sheet steel, KX sheet steel, AX IT, EL  
Ideal for convenient one-person assembly of wall-mounted enclosures, even in confined spaces.

#### Benefits:

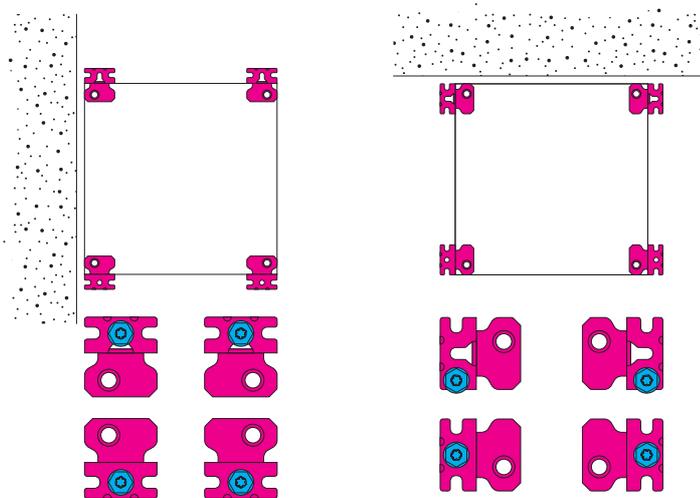
- Screw-fastened directly from the rear with a self-tapping screw in the enclosure eyelet
- Simply suspend the wall mounting bracket 2508.020, which is equipped with an additional suspension contour, from a screw in the wall
- Different mounting positions allow the wall mounting bracket to be tailored to local conditions on site
- If necessary, the support may be finished with a stylish cover cap
- Additional option of attaching with a nut for dynamic applications

#### Supply includes:

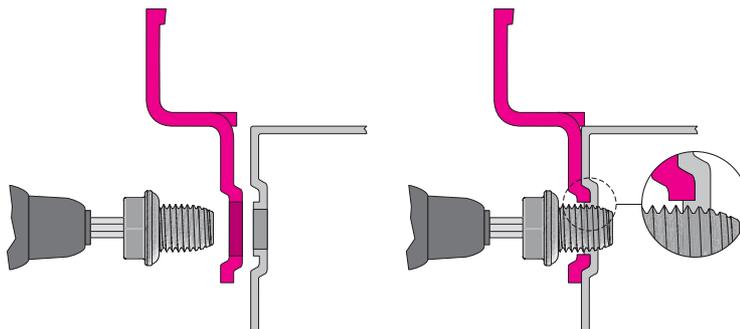
- Wall mounting bracket
- Cover cap
- Assembly parts

| Material                 | Wall distance mm | Packs of | Model No.       |
|--------------------------|------------------|----------|-----------------|
| Sheet steel, zinc-plated | 20               | 4 pc(s). | <b>2508.020</b> |
|                          | 40               | 4 pc(s). | <b>2503.020</b> |

### Sample applications



Attachment with self-tapping screw



# Roof/wall mounting

## Wall mounting

### Wall mounting bracket

for AX stainless steel, KX stainless steel

For the attachment of AX and KX stainless steel enclosures.

#### Benefits:

- Simply suspend the wall-mounted bracket from a screw in the wall
- Different mounting positions allow the wall mounting bracket to be tailored to local conditions on site
- If necessary, the support may be finished with a stylish cover cap

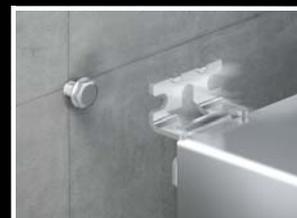
#### Supply includes:

- Wall mounting bracket
- Cover cap
- Assembly parts

#### Note:

- For hygiene reasons, and in view of the protection category, the stainless steel enclosures do not have any drilled holes for the wall mounting brackets

| Material                           | Wall distance mm | Packs of | Model No.       |
|------------------------------------|------------------|----------|-----------------|
| Stainless steel 1.4301 (AISI 304)  | 20               | 4 pc(s). | <b>2433.010</b> |
| Stainless steel 1.4404 (AISI 316L) | 20               | 4 pc(s). | <b>2433.510</b> |



### Wall angle

for AX, KX, AX IT

For the attachment of sheet steel and stainless steel enclosures.

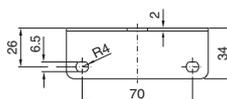
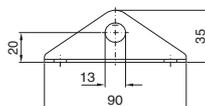
#### Supply includes:

- Assembly parts for mounting on the enclosure

#### Note:

- Additional holes required in the enclosure

| Material                          | Colour   | Packs of | Model No.       |
|-----------------------------------|----------|----------|-----------------|
| Sheet steel                       | RAL 7035 | 4 pc(s). | <b>2505.510</b> |
| Stainless steel 1.4301 (AISI 304) | -        | 4 pc(s). | <b>2583.010</b> |



### Wall bracket

for VX, VX SE, VX IT

For attaching enclosures with a shallow depth and e.g. heavy components on the door or a built-in swing frame, to a wall at the top.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

| Packs of | Model No.       |
|----------|-----------------|
| 4 pc(s). | <b>4595.000</b> |



# Roof/wall mounting

## Wall mounting



### Pole clamp

for AX, KX, AX plastic, AX IT

For reliable, convenient fastening to round or square poles.

- For pole diameter / size:
- Ø from 40 to 170 mm
  - □ from 50 to 150 mm

#### Material:

- Mounting angles, clamping section: Sheet steel
- Clamping strap: Stainless steel 1.4301 (AISI 304)

#### Surface finish:

- Mounting angle, clamping section: Zinc-plated

#### Supply includes:

- 2 mounting angles, 600 mm long
- 4 clamping sections
- 2 clamping straps
- 4 clamping brackets
- Assembly parts

| Packs of | Model No. |
|----------|-----------|
| 2 pc(s). | 2584.100  |

#### Note:

- The pole clamp cannot be used in conjunction with a protective roof for AX

### Enclosure connectors

#### Adjustable

Between command panels, terminal boxes, compact enclosures and horizontal or vertical surfaces. Pre-mount the connector halves on both sides, screw together and secure with a locking screw, and/or adjust the angle of rotation.

#### Rotation range:

- ±105° adjustable in 7.5° stepped increments

#### Material:

- Die-cast zinc

#### Surface finish:

- Powder-coated

#### Colour:

- RAL 7035

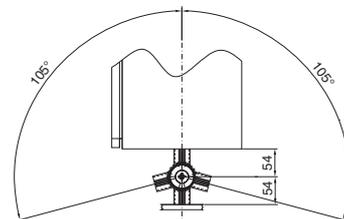
#### Supply includes:

- Assembly parts for both sides

| Packs of | Model No. |
|----------|-----------|
| 2 pc(s). | 6016.200  |

#### Note:

- The locking screws may be exchanged for standard, commercially available clamping levers (M10 x 50 mm)



# Roof/wall mounting

## Wall mounting

### Frame connector, adjustable

#### for Comfort Panel

Between the command panel and keyboard housing and horizontal or vertical surfaces.

#### Rotation range:

– Adjustable in 8° stepped increments, see drawing

#### Material:

– Die-cast zinc

#### Surface finish:

– Powder-coated

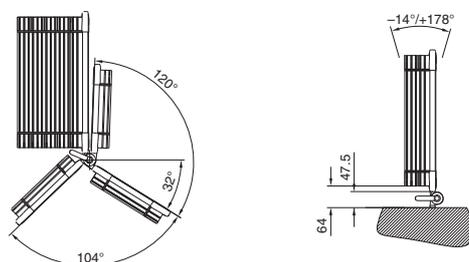
#### Colour:

– RAL 7024

#### Supply includes:

– Assembly parts and clamping levers for both sides

| Packs of | Model No. |
|----------|-----------|
| 2 pc(s). | 6005.500  |



### Wall mounting

#### Vertically hinged

Between the Compact Panel and horizontal or vertical surfaces.

#### Rotation range:

– 180° adjustable on a 7.2° pitch pattern

#### Material:

– Wall mounting: Sheet steel

– Knurled screw: Steel with plastic knurled handle

#### Supply includes:

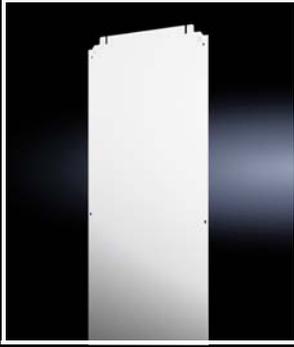
– Knurled screw and assembly parts for mounting on the Compact Panel

| Packs of | Model No. |
|----------|-----------|
| 2 pc(s). | 6341.000  |



# Interior installation

## Mounting plates



### Mounting plate

for terminal boxes KX, bus enclosures KX,  
terminal boxes HD, Ex enclosures

For component installation outside of the enclosure.  
Assembly screws included as accessories with the enclosure.

**Material:**

- Sheet steel, 2 mm

**Surface finish:**

- Zinc-plated



**Accessories:**

- Self-tapping screws 2487.000, see page 1004



**Possible alternative:**

- Support rail, see page 997

| For size mm | For Model No.                                                                  | Model No.       |
|-------------|--------------------------------------------------------------------------------|-----------------|
| 150 x 150   | 1500.000, 1514.000, 1560.000, 1564.000, 1670.600, 1671.600, 9301.000           | <b>1560.800</b> |
| 200 x 150   | 1528.000, 1529.000                                                             | <b>1575.800</b> |
| 300 x 150   | 1501.000, 1515.000, 1530.000, 1561.000, 9302.000                               | <b>1561.800</b> |
| 400 x 150   | 1589.000                                                                       | <b>1576.800</b> |
| 200 x 200   | 1502.000, 1516.000, 1562.000, 1565.000, 1672.600, 9303.000                     | <b>1562.800</b> |
| 300 x 200   | 1503.000, 1517.000, 1531.000, 1563.000, 1566.000, 1674.600, 1583.000, 9304.000 | <b>1563.800</b> |
| 400 x 200   | 1504.000, 1518.000, 1532.000, 1568.000, 1585.000, 1610.000, 1675.600, 9305.000 | <b>1564.800</b> |
| 500 x 200   | 1505.000, 1533.000                                                             | <b>1565.800</b> |
| 600 x 200   | 1506.000, 1586.000                                                             | <b>1566.800</b> |
| 800 x 200   | 1527.000                                                                       | <b>1574.800</b> |
| 300 x 300   | 1507.000, 1535.000, 1567.000, 9306.000                                         | <b>1567.800</b> |
| 400 x 300   | 1508.000, 1536.000, 1569.000, 1611.000, 1676.600                               | <b>1568.800</b> |
| 500 x 300   | 1509.000, 1537.000                                                             | <b>1569.800</b> |
| 600 x 300   | 1510.000, 1538.000, 1612.000                                                   | <b>1570.800</b> |
| 800 x 300   | 1613.000                                                                       | <b>1570.810</b> |
| 400 x 400   | 1511.000, 1539.000                                                             | <b>1571.800</b> |
| 600 x 400   | 1512.000, 1540.000                                                             | <b>1572.800</b> |
| 800 x 400   | 1513.000, 1541.000                                                             | <b>1573.800</b> |

# Interior installation

## Mounting plates

### Mounting plate infill

#### for VX

For a continuous mounting surface in bayed suites where the mounting plate is set forward.

#### Material:

- Sheet steel, 2 mm

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| For enclosure height mm | Packs of | Model No.       |
|-------------------------|----------|-----------------|
| 1800                    | 1 pc(s). | <b>4590.700</b> |
| 2000                    | 1 pc(s). | <b>4591.700</b> |
| 2200                    | 1 pc(s). | <b>4592.700</b> |



| Detail | Mounting position of mounting plate                                                                                             | Benefits                                                                                         |
|--------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|        | <p>Set forward from the enclosure frame on a 25 mm pitch pattern</p> <p>Position:<br/>-25 mm<br/>-50 mm<br/>-75 mm<br/>etc.</p> | <p>The usable mounting width is enlarged by up to 25%, depending on the enclosure selection.</p> |

### Mounting plate attachment

#### Type A, for VX

To reduce vibrations in the mounting plate, e.g. in dynamic applications and when transporting with heavy assemblies. Simple mounting directly on the enclosure frame. During installation, the mounting plate latches automatically into the mounting plate attachment. The mounting plate attachment type A keeps the front of the mounting plate completely free for unrestricted use. Populated mounting plates may be mounted from the front without dismantling the rear panel.

| Packs of | Model No.       |
|----------|-----------------|
| 5 pc(s). | <b>8617.353</b> |

#### Material:

- Spring steel

#### Supply includes:

- Safety clip
- Assembly parts



| Detail | Mounting position of mounting plate                                                                       | Installation option                                                      | Attachment to the mounting plate |
|--------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------|
|        | <p>Flush with the enclosure frame</p> <p>Position:<br/><math>\pm 0</math> mm,<br/>fitted at the rear</p>  | <p>Fitted on the left and right of the mounting plate</p>                | <p>Latched home</p>              |
|        | <p>Flush with the enclosure frame</p> <p>Position:<br/><math>\pm 0</math> mm,<br/>fitted at the front</p> | <p>Fitted on the left and right of the mounting plate at half height</p> | <p>Latched home</p>              |

# Interior installation

## Mounting plates



### Mounting plate attachment

#### Type B, for VX

To reduce vibrations in the mounting plate, e.g. in dynamic applications and when transporting with heavy assemblies. Simple mounting directly on the enclosure frame or on the punched section with mounting flange 23 x 64 mm. The mounting plate may optionally be screw-fastened with the mounting plate attachment, or form-fit connected.

Depending on the installation situation, the mounting plate attachment type B either minimally surrounds the mounting plate, or keeps the front of the mounting plate completely free for unrestricted use. May be mounted from the front or the rear, depending on the situation.

|           |                  |
|-----------|------------------|
| Packs of  | <b>Model No.</b> |
| 10 pc(s). | <b>8617.351</b>  |

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated, passivated

#### Supply includes:

- Assembly parts



#### Accessories:

- Punched section with mounting flange 23 x 64 mm for the inner level, see page 991

| Detail | Mounting position of mounting plate                                          | Installation option                                                                                                                                                                                  | Attachment to the mounting plate |
|--------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|        | Set forward from the enclosure frame<br>Position: -50 mm                     | <b>1</b> 2 pc(s), per enclosure/mounting plate, at the side, half-way up the mounting plate                                                                                                          | Screw-fastened                   |
|        | Set forward from the enclosure frame<br>Position: -50 mm                     | <b>2</b> All-round between the enclosure and mounting plate in any quantity                                                                                                                          | Connected                        |
|        | Set forward from the enclosure frame<br>Position: -75 mm                     | <b>1</b> 2 pc(s), per enclosure/mounting plate, at the side, half-way up the mounting plate                                                                                                          | Screw-fastened                   |
|        | Set forward from the enclosure frame<br>Position: -75 mm                     | <b>2</b> All-round between the enclosure and mounting plate in any quantity                                                                                                                          | Connected                        |
|        | Set forward from the enclosure frame<br><b>1</b> Position: -100 mm or larger | All-round between the enclosure and mounting plate in any quantity. One punched section with mounting flange 23 x 64 mm to match the enclosure depth is required for each mounting plate attachment. | Connected                        |
|        | <b>2</b> Position: -25 mm or larger                                          |                                                                                                                                                                                                      |                                  |

# Interior installation

## Mounting plates

### Mounting plate attachment

#### Type C, for VX

To reduce vibrations in the mounting plate, e.g. in dynamic applications and when transporting with heavy assemblies. Simple mounting directly on the enclosure frame. The mounting plate may be form-fit connected and clamped with the mounting plate attachment. The mounting plate attachment type C keeps the front of the mounting plate completely free for unrestricted use. With the mounting plate installed and the rear panel dismantled, it can be fitted from the rear.

| Packs of  | Model No. |
|-----------|-----------|
| 10 pc(s). | 8617.352  |

#### Material:

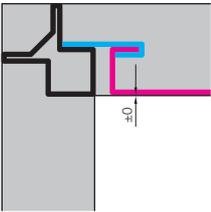
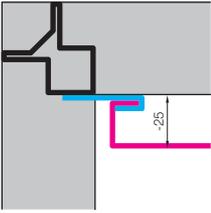
- Sheet steel

#### Surface finish:

- Zinc-plated, passivated

#### Supply includes:

- Assembly parts

| Detail                                                                             | Mounting position of mounting plate                         | Installation option                                                | Attachment to the mounting plate |
|------------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------|
|   | Flush with the enclosure frame<br>Position:<br>± 0 mm       | All-round between the enclosure and mounting plate in any quantity | Connected, clamped               |
|  | Set forward from the enclosure frame<br>Position:<br>-25 mm | All-round between the enclosure and mounting plate in any quantity | Connected, clamped               |

### VX installation kit

#### for back-to-back mounting plates

The minimum spacing between the mounting plates facilitates maximum assemblies on both mounting plates.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated, passivated

| Packs of | Model No. |
|----------|-----------|
| 1 pc(s). | 8617.360  |



#### Also required:

- Second mounting plate, to fit the enclosure dimensions, refer to Rittal list of spares at [www.rittal.com](http://www.rittal.com)



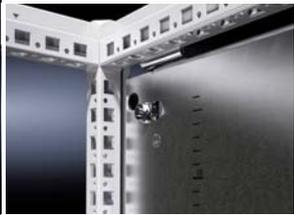
#### Accessories:

- For enclosures with a rear panel, following may be used for optimum access to the rear mounting plate:  
Glazed door instead of rear panel, see page 917  
Lockable and adjacent door 8618.120, for enclosure dimensions W x H = 800 x 2000 mm, see page 917



# Interior installation

## Mounting plates



### Multi-function mounting kit VX for mounting plate

#### For installing the mounting plate from the rear of the enclosure

- Mounting position flush with the enclosure frame, position  $\pm 0$  mm
- The mounting plate is removable from the front and rear for servicing
- For 20 mm more installation depth in the enclosure
- Mounting position set back behind the enclosure frame, position  $\pm 20$  mm

#### For additional screw-fastening of the mounting plate

- For all mounting positions

| Packs of | Model No. |
|----------|-----------|
| 1 pc(s). | 8617.370  |

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated, passivated

#### Supply includes:

- Assembly parts



### Slide rail

#### for mounting plates, for VX, VX SE

For sliding the mounting plate in from the side. For mounting in a set-forward position.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| For enclosure width mm | Packs of | Model No. |
|------------------------|----------|-----------|
| 600                    | 2 pc(s). | 8617.400  |
| 800                    | 2 pc(s). | 8617.401  |
| 1200                   | 2 pc(s). | 8617.402  |



### Cross-brace

#### for mounting plates, for VX, VX SE

Additional horizontal rigidity for vibration damping and/or retrospective stabilisation of wide mounting plates. This brace may also be used as an attachment aid for heavy components.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- 2 sections
- 4 clamping sections
- 4 grub screws M10 x 16 mm

| For enclosure width mm | Model No. |
|------------------------|-----------|
| 1200                   | 4333.120  |
| 1600                   | 4333.160  |
| 1800                   | 4333.180  |

# Interior installation

## Mounting plates

### Partial mounting plate VX

for VX, VX SE, PC, IW

To accommodate additional components inside the enclosure. Partial mounting plates are extremely versatile, providing a platform for a diverse range of applications.

For optional installation either upright as a vertical mounting surface, or flat as a horizontal base. For attachment either directly to the enclosure section or, with a set-forward construction, for example, to any mounting level in the enclosure using punched sections with mounting flanges. For multi-level installation one behind the other, partial mounting plates may be vertically hinged, via hinge attachment 8617.650, to allow rapid access to the levels behind.

#### Material:

- Sheet steel, 2.5 mm

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

#### Note:

- Depending on the mounting situation, additional parts such as punched sections with mounting flanges may be required, see installation example on page 976



#### Also required:

- For the installation in VX SE, PC, IW:  
Adaptor rail VX, see page 995



#### Accessories:

- Punched section with mounting flange  
18 x 64 mm for the outer level, see page 990
- Punched section with mounting flange  
23 x 64 mm for the inner level, see page 991
- Hinge attachment 8617.650, see page 977

#### Installation examples:

See page 976



| For installation in |     |     |      |      |                           |     |     |     |      | Door width mm | Dimensions mm | Packs of        | Model No. |
|---------------------|-----|-----|------|------|---------------------------|-----|-----|-----|------|---------------|---------------|-----------------|-----------|
| Enclosure width mm  |     |     |      |      | Enclosure depth (side) mm |     |     |     |      |               |               |                 |           |
| 400                 | 600 | 800 | 1000 | 1200 | 400                       | 500 | 600 | 800 |      |               |               |                 |           |
| ■                   | ■   | -   | -    | -    | ■                         | -   | ■   | -   | 600  | 500 x 300     | 1 pc(s).      | <b>8617.510</b> |           |
| -                   | ■   | -   | -    | -    | -                         | ■   | ■   | -   | 600  | 500 x 400     | 1 pc(s).      | <b>8617.520</b> |           |
| -                   | ■   | -   | -    | -    | -                         | -   | ■   | -   | 600  | 500 x 500     | 1 pc(s).      | <b>8617.530</b> |           |
| -                   | ■   | ■   | -    | -    | -                         | -   | ■   | ■   | 600  | 500 x 700     | 1 pc(s).      | <b>8617.540</b> |           |
| -                   | ■   | -   | -    | -    | -                         | -   | ■   | -   | 600  | 500 x 775     | 1 pc(s).      | <b>8617.550</b> |           |
| ■                   | -   | ■   | -    | -    | ■                         | -   | -   | ■   | 800  | 700 x 300     | 1 pc(s).      | <b>8617.560</b> |           |
| -                   | -   | ■   | -    | -    | -                         | ■   | -   | ■   | 800  | 700 x 400     | 1 pc(s).      | <b>8617.570</b> |           |
| -                   | -   | ■   | -    | -    | -                         | -   | -   | ■   | 800  | 700 x 700     | 1 pc(s).      | <b>8617.580</b> |           |
| ■                   | -   | -   | ■    | -    | ■                         | -   | -   | -   | 1000 | 900 x 300     | 1 pc(s).      | <b>8617.590</b> |           |
| -                   | -   | -   | ■    | -    | -                         | ■   | -   | -   | 1000 | 900 x 400     | 1 pc(s).      | <b>8617.600</b> |           |
| -                   | ■   | -   | ■    | -    | -                         | -   | ■   | -   | 1000 | 900 x 500     | 1 pc(s).      | <b>8617.610</b> |           |
| ■                   | -   | -   | -    | ■    | ■                         | -   | -   | -   | -    | 1100 x 300    | 1 pc(s).      | <b>8617.620</b> |           |
| -                   | -   | -   | -    | ■    | -                         | ■   | -   | -   | -    | 1100 x 400    | 1 pc(s).      | <b>8617.630</b> |           |
| -                   | ■   | -   | -    | ■    | -                         | -   | ■   | -   | -    | 1100 x 500    | 1 pc(s).      | <b>8617.640</b> |           |

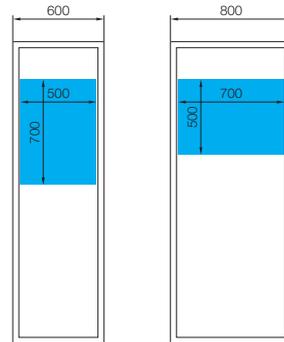
# Interior installation

## Mounting plates

### Partial mounting plates VX, installation examples

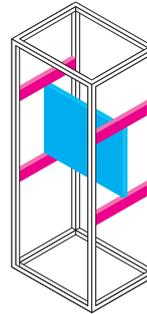
#### Full installation in the width/depth

Choose a partial mounting plate 100 mm smaller than the nominal size of the enclosure.  
For example, a partial mounting plate with dimensions 500 x 700 mm can be installed in enclosures with nominal dimensions of 600 and 800 mm.



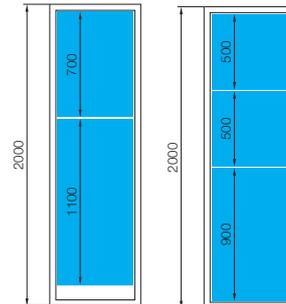
#### Full installation, set forward in the width/depth

For set-forward installation, punched sections with mounting flanges are required for the inner or outer mounting level, according to the enclosure depth.



#### Full installation in the height

The sum total of partial mounting plates 100 mm should be smaller than the nominal size of the enclosure. For example, in a 2000 mm high enclosure, the sum total of partial mounting plates should not exceed 1900 mm.

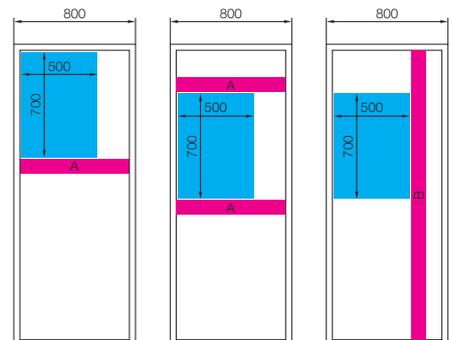


#### Partial installation



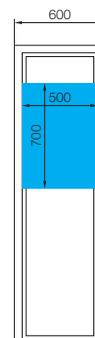
#### Also required:

- Punched section with mounting flange 23 x 64 mm **(A)** to match the enclosure width or depth, see page 991
- Punched section with mounting flange 23 x 64 mm **(B)** to match the enclosure height, see page 991



#### Door installation

Choose a partial mounting plate 100 mm smaller than the nominal size of the enclosure.  
For example, a partial mounting plate with dimensions 500 x 700 mm can be installed on the tubular door frame of enclosures with a nominal size of 600 mm.



# Interior installation

## Mounting plates

### Hinge attachment

#### for partial mounting plate VX

In conjunction with the mounting kit for swing frames, small, the partial mounting plate VX can be hinged to allow access to the components behind it for servicing.

#### Installation options:

- At the front, on the frame section
- Set back, in the enclosure depth
- At the side, in conjunction with the hinged side panel

#### Material:

- Steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| Packs of | Model No. |
|----------|-----------|
| 1 pc(s). | 8617.650  |

#### ! Also required:

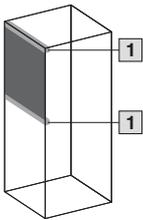
- Installation kit for swing frame, small, for enclosure width 600 mm (8619.600) or 800 mm (8619.610), see page 1076
- Punched section with mounting flange 23 x 64 mm according to the enclosure depth, see page 991



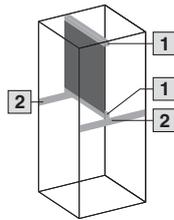
### Examples

#### In the highest or lowest position

Front



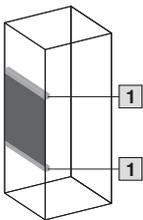
Set back



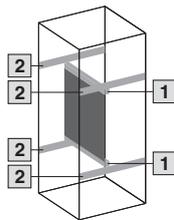
- 1 Installation kit for swing frame, small
- 2 Punched section with mounting flange 23 x 64 mm in accordance with the enclosure depth

#### In a central position

Front



Set back



# Interior installation

## Mounting plates



### Partial mounting plate holder for partial mounting plate VX

The partial mounting plate may be fitted set back by 20 mm behind the enclosure frame using the partial mounting plate holder, and also fastened directly to the frame from the outside. The partial mounting plate is also removable from the inside for servicing.

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated, passivated

**Supply includes:**

- Assembly parts

| Packs of | Model No. |
|----------|-----------|
| 4 pc(s). | 8617.655  |

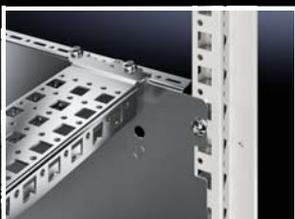
# Partial mounting plate VX

Provides flexible and individual interior installation,  
see page 980



# Interior installation

## Mounting plates



### Partial mounting plate VX

#### for VX, VX SE

To accommodate additional components inside the enclosure. Partial mounting plates are extremely versatile, providing a platform for a diverse range of applications. They are attached directly to the enclosure section. For individual interior installation, system punchings are additionally provided in the edge fold.

#### Material:

- Sheet steel, 1.5 mm

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

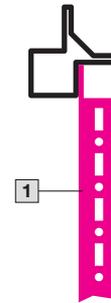
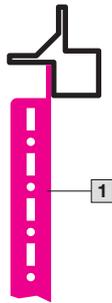
| Dimensions mm | Packs of | Model No.       |
|---------------|----------|-----------------|
| 500 x 400     | 1 pc(s). | <b>8617.660</b> |
| 500 x 600     | 1 pc(s). | <b>8617.661</b> |
| 600 x 400     | 1 pc(s). | <b>8617.662</b> |
| 600 x 600     | 1 pc(s). | <b>8617.663</b> |
| 800 x 400     | 1 pc(s). | <b>8617.664</b> |
| 800 x 600     | 1 pc(s). | <b>8617.665</b> |



#### Also required:

- For the installation in VX SE: Adaptor rail VX, see page 995

Outer mounting level



Inner mounting level



1

2

1



1 Partial assembly plate

2 Punched section with mounting flange, 23 x 64 mm

# Interior installation

## Mounting plates

### Transport handle

for mounting plate,  
for VX, VX SE

For use at any given position in the side C-fold.

Benefits include:

- Adapts to users of different heights
- Optimised force transmission
- Simple handling

| Packs of | Model No. |
|----------|-----------|
| 2 pc(s). | 2415.500  |



### Mounting plate

for Outdoor Basic enclosure

For the configuration of mounting levels.

The mounting plates are depth-adjustable on a 25 mm pitch pattern.

**Material:**

- Aluminium, 3 mm

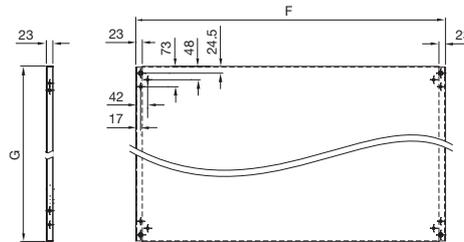
**Supply includes:**

- Assembly parts

**Note:**

- For an enclosure width of 1200 mm, partial installation with one or two 600 mm wide mounting plates is possible

| For enclosure |           | F mm | G mm | Model No. |
|---------------|-----------|------|------|-----------|
| Width mm      | Height mm |      |      |           |
| 600           | 1200      | 499  | 1096 | 9765.092  |
| 800           | 1200      | 699  | 1096 | 9765.095  |
| 1200          | 1200      | 1099 | 1096 | 9765.191  |



### Mounting plate attachment

for TP one-piece console, TP pedestal  
for high dynamic loads

To reduce vibrations in the mounting plate.

**Applications:**

- During transportation with heavy assemblies
- For dynamic applications, if a direct connection between the mounting plate and the enclosure is required for mobile use (e.g. with accompanying enclosures in crane systems, etc.)

Tested as per DIN EN 60 721

Severity 3 M4, with a weight of 150 kg evenly distributed over the mounting plate.

Simply screw-fasten to the existing holes in the mounting plate to pre-assemble for:

**1 Wall mounting from the inside**

Direct using a bracket and wall / support mounted enclosure.

**2 Wall mounting from the outside**

Screws for wall mounting brackets can easily be screwed into the square nut from the outside

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts

| Packs of | Model No. |
|----------|-----------|
| 1 pc(s). | 5001.075  |



# Interior installation

## Mounting plates



### Partial mounting plate, locatable

#### for TP

For installation in

- Console and desk unit on the interior installation system rails
- Punched sections with mounting flanges or support strips fitted to the side of the pedestal in the depth

For easy mounting on pre-fitted assembly screws. Bayable by screw-fastening at the sides.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

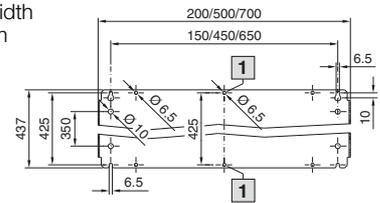
#### Supply includes:

- Assembly parts

| Width mm | Height mm | Packs of | Model No.       |
|----------|-----------|----------|-----------------|
| 200      | 437       | 1 pc(s). | <b>6730.310</b> |
| 500      | 437       | 1 pc(s). | <b>6730.330</b> |
| 700      | 437       | 1 pc(s). | <b>6730.340</b> |

| For console/desk unit width mm | Max. partial mounting plates that may be installed |
|--------------------------------|----------------------------------------------------|
| 600                            | 1 x 6730.330                                       |
| 800                            | 1 x 6730.340                                       |
| 1200                           | 2 x 6730.310<br>1 x 6730.340                       |
| 1600                           | 1 x 6730.330<br>1 x 6730.340                       |

1 From width 500 mm



# Interior installation

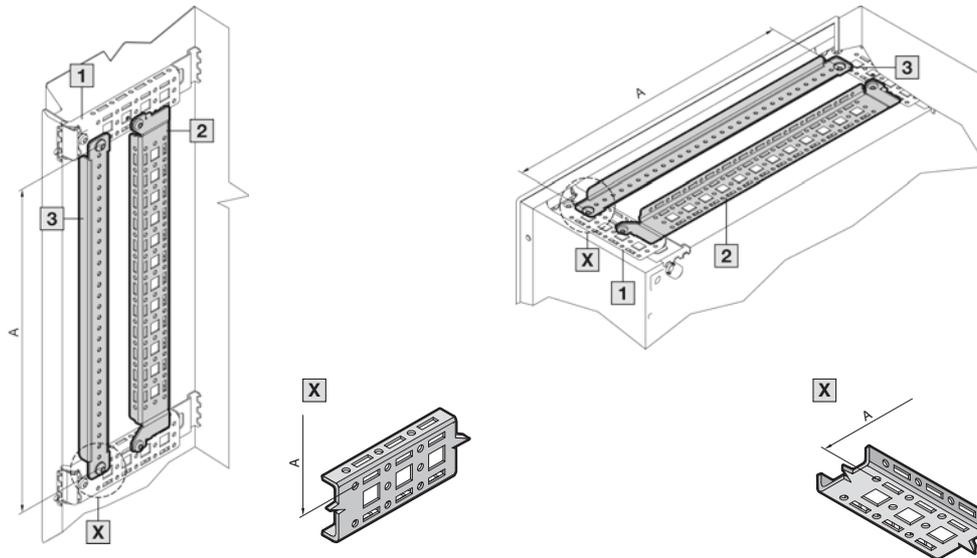
## Rail systems

### AX installation examples with system rails

| Preparing for installation           |          |                        |          |          |          |          |      |
|--------------------------------------|----------|------------------------|----------|----------|----------|----------|------|
| 1) Rail for interior installation AX | Packs of | For enclosure depth mm |          |          |          |          | Page |
|                                      |          | 210                    | 250      | 300      | 350      | 400      |      |
| <b>Model No.</b>                     | 4 pc(s). | 2393.210               | 2393.250 | 2393.300 | 2393.350 | 2393.400 | 989  |

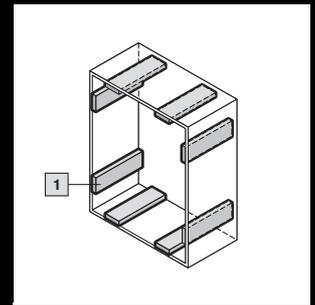
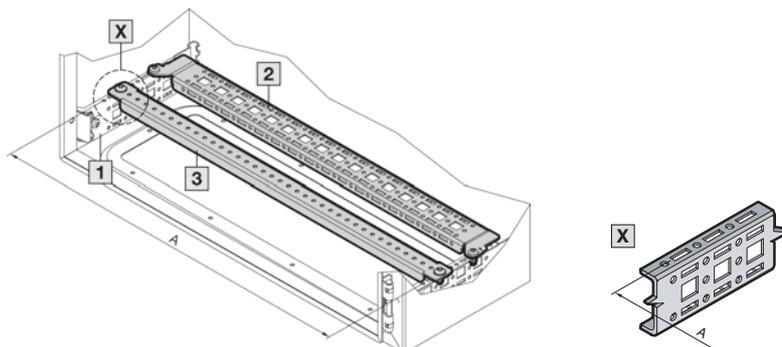
| Installation of support strip and punched section with mounting flange 14 x 39 mm in enclosure height/width |                    |                                                     |           |      |                  |           |      |
|-------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------|-----------|------|------------------|-----------|------|
| For enclosure height/width mm                                                                               | A <sup>1)</sup> mm | 2) Punched section with mounting flange, 14 x 39 mm |           | Page | 3) Support strip |           | Page |
|                                                                                                             |                    | Packs of                                            | Model No. |      | Packs of         | Model No. |      |
| 400                                                                                                         | 275                | 4 pc(s).                                            | 8619.700  | 990  | 20 pc(s).        | 4594.000  | 994  |
| 500                                                                                                         | 375                | 4 pc(s).                                            | 8619.710  |      | 20 pc(s).        | 4309.000  |      |
| 600                                                                                                         | 475                | 4 pc(s).                                            | 8619.720  |      | 20 pc(s).        | 4596.000  |      |
| 700                                                                                                         | 575                | 4 pc(s).                                            | 8619.760  |      | 20 pc(s).        | 8800.130  |      |
| 760                                                                                                         | 635                | 4 pc(s).                                            | 8619.790  |      | 20 pc(s).        | -         |      |
| 800                                                                                                         | 675                | 4 pc(s).                                            | 8619.730  |      | 20 pc(s).        | 4598.000  |      |
| 1000                                                                                                        | 875                | 4 pc(s).                                            | 8619.750  |      | 20 pc(s).        | 4599.000  |      |
| 1200                                                                                                        | 1075               | 4 pc(s).                                            | 8619.770  |      | 20 pc(s).        | -         |      |
| 1,400                                                                                                       | 1275               | 4 pc(s).                                            | 8619.780  |      | 20 pc(s).        | -         |      |

<sup>1)</sup> A = Rail mounting distance



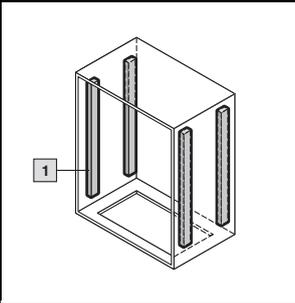
| Installation of support strip and punched section with mounting flange 14 x 39 mm in enclosure width |                    |                                                     |           |      |                  |           |      |
|------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------|-----------|------|------------------|-----------|------|
| For enclosure width mm                                                                               | A <sup>1)</sup> mm | 2) Punched section with mounting flange, 14 x 39 mm |           | Page | 3) Support strip |           | Page |
|                                                                                                      |                    | Packs of                                            | Model No. |      | Packs of         | Model No. |      |
| 300                                                                                                  | 275                | 4 pc(s).                                            | 8619.700  | 990  | 20 pc(s).        | 4594.000  | 994  |
| 400                                                                                                  | 375                | 4 pc(s).                                            | 8619.710  |      | 20 pc(s).        | 4309.000  |      |
| 500                                                                                                  | 475                | 4 pc(s).                                            | 8619.720  |      | 20 pc(s).        | 4596.000  |      |
| 600                                                                                                  | 575                | 4 pc(s).                                            | 8619.760  |      | 20 pc(s).        | 8800.130  |      |
| 700                                                                                                  | 675                | 4 pc(s).                                            | 8619.730  |      | 20 pc(s).        | 4598.000  |      |
| 800                                                                                                  | 775                | 4 pc(s).                                            | 8619.740  |      | 20 pc(s).        | 4579.000  |      |

<sup>1)</sup> A = Rail mounting distance



# Interior installation

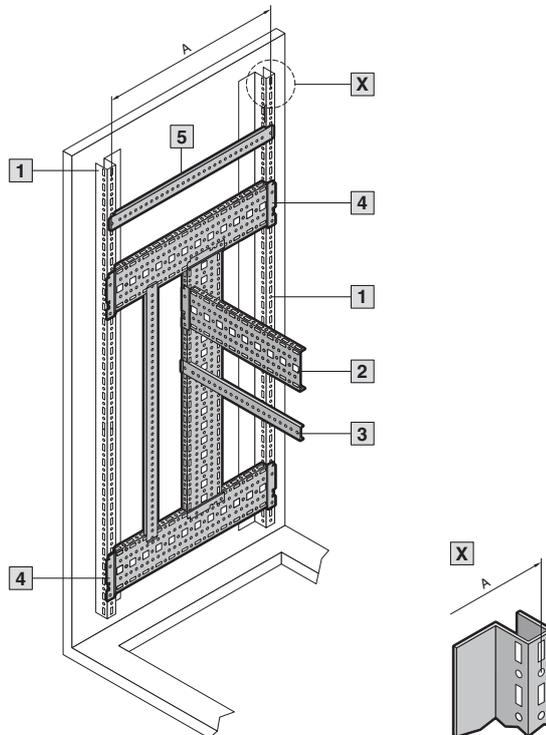
## Rail systems



### TP pedestal/one-piece console Installation examples with system rails

| Preparing for installation                                     |           |                         |                    |          |                  |          |          |          |     |
|----------------------------------------------------------------|-----------|-------------------------|--------------------|----------|------------------|----------|----------|----------|-----|
| 1 Rail for interior installation                               | Packs of  | For enclosure height mm |                    |          |                  |          | Page     |          |     |
|                                                                |           | 675                     | 960                |          |                  |          |          |          |     |
| <b>Model No.</b>                                               | 4 pc(s).  | 5001.050                | 5001.051           |          |                  |          | 995      |          |     |
| Installation in the width                                      |           |                         |                    |          |                  |          |          |          |     |
|                                                                | Packs of  | <b>Model No.</b>        |                    |          |                  |          |          |          |     |
| For enclosure width mm                                         |           | 600                     | 800                | 1000     | 1200             | 1600     |          |          |     |
| A <sup>1)</sup> mm                                             |           | 575                     | 775                | 975      | 1175             | 1575     |          |          |     |
| 1 Punched section with mounting flange, 17 x 73 mm             | 4 pc(s).  | 8612.060                | -                  | -        | -                | -        | 992      |          |     |
| 3 Support strip                                                | 20 pc(s). | 8800.130                | 4579.000           | -        | -                | -        | 994      |          |     |
| Installation in the depth                                      |           |                         |                    |          |                  |          |          |          |     |
|                                                                |           | For enclosure depth mm  | A <sup>1)</sup> mm | Packs of | <b>Model No.</b> |          |          |          |     |
| 4 Punched section with mounting flange 17 x 73 mm              | 4 pc(s).  | 400                     | 325                | 8612.140 | 8612.140         | 8612.140 | 8612.140 | 8612.140 | 992 |
|                                                                |           | 500                     | 425                | 8612.150 | 8612.150         | 8612.150 | 8612.150 | 8612.150 |     |
| 5 Support strip                                                | 20 pc(s). | 400                     | 325                | 4694.000 | 4694.000         | 4694.000 | 4694.000 | 4694.000 | 994 |
|                                                                |           | 500                     | 425                | 4695.000 | 4695.000         | 4695.000 | 4695.000 | 4695.000 |     |
| Installation in the height (individual installation e.g. with) |           |                         |                    |          |                  |          |          |          |     |
| Punched section with mounting flange, 17 x 73 mm               |           |                         |                    |          | see page 992     |          |          |          |     |
| Support strip                                                  |           |                         |                    |          | see page 994     |          |          |          |     |

<sup>1)</sup> A = Rail mounting distance



### TP console Installation examples with system rails

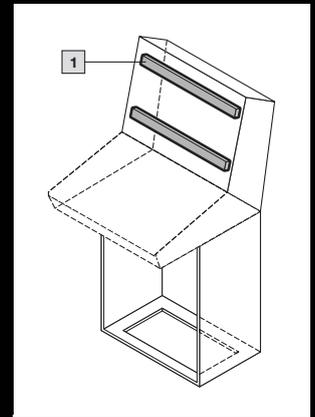
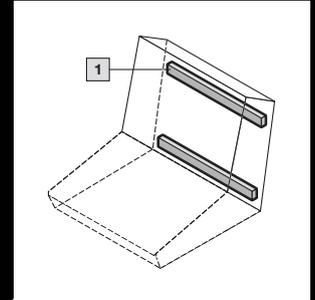
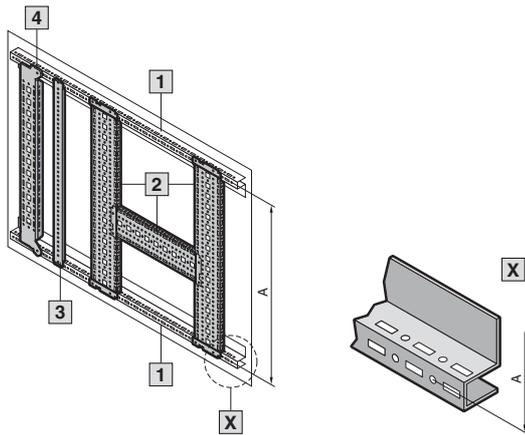
| Preparing for installation       |          |                        |          |          |          |      |  |
|----------------------------------|----------|------------------------|----------|----------|----------|------|--|
| 1 Rail for interior installation | Packs of | For enclosure width mm |          |          |          | Page |  |
|                                  |          | 600                    | 800      | 1200     | 1600     |      |  |
| <b>Model No.</b>                 | 4 pc(s). | 5001.050               | 5001.051 | 5001.053 | 5001.054 | 995  |  |

| Installation in the height                         |                    |           |           |          |          |          |     |
|----------------------------------------------------|--------------------|-----------|-----------|----------|----------|----------|-----|
|                                                    | A <sup>1)</sup> mm | Packs of  | Model No. |          |          |          |     |
| For enclosure width mm                             |                    |           | 600       | 800      | 1200     | 1600     |     |
| 1 Punched section with mounting flange, 17 x 73 mm |                    |           |           |          |          |          |     |
| For cover                                          | 375                | 4 pc(s).  | 8612.040  | 8612.040 | 8612.040 | 8612.040 | 992 |
| For enclosure                                      | 425                | 4 pc(s).  | 8612.150  | 8612.150 | 8612.150 | 8612.150 | 992 |
| 3 Support strip                                    |                    |           |           |          |          |          |     |
| For cover                                          | 375                | 20 pc(s). | 4309.000  | 4309.000 | 4309.000 | 4309.000 | 994 |
| For enclosure                                      | 425                | 20 pc(s). | 4695.000  | 4695.000 | 4695.000 | 4695.000 | 994 |
| 4 Punched section with mounting flange 14 x 39 mm  |                    |           |           |          |          |          |     |
| For enclosure                                      | 375                | 4 pc(s).  | 8619.710  | -        | -        | -        | 990 |

<sup>1)</sup> A = Rail mounting distance

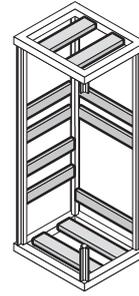
Console/console lid



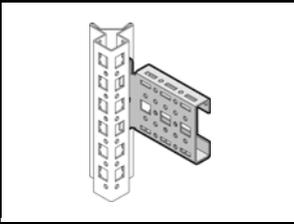
# Interior installation

## Rail systems

### VX/ VX SE installation examples with system rails

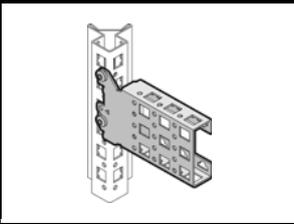


|  | Installation in the roof and base frame in the width/depth |       | Installation between vertical sections in the width/depth |       |             |       |
|--|------------------------------------------------------------|-------|-----------------------------------------------------------|-------|-------------|-------|
|  | VX                                                         | VX SE | Inner level                                               |       | Outer level |       |
|  |                                                            |       | VX                                                        | VX SE | VX          | VX SE |
|  |                                                            |       |                                                           |       |             |       |



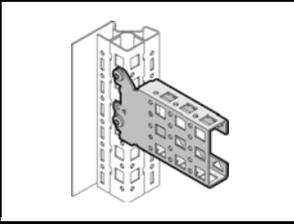
| Punched section with mounting flange 18 x 64 mm, installation in VX |          |                    |                         |           |                         |           |      |
|---------------------------------------------------------------------|----------|--------------------|-------------------------|-----------|-------------------------|-----------|------|
| For enclosure width/height/depth mm                                 | Packs of | A <sup>1)</sup> mm | Model No. <sup>2)</sup> | Model No. | Model No. <sup>2)</sup> | Model No. | Page |
| 300                                                                 | 4 pc(s). | 225                | 8617.000                | -         | -                       | 8617.000  | 990  |
| 400                                                                 | 4 pc(s). | 325                | 8617.010                | -         | -                       | 8617.010  |      |
| 500                                                                 | 4 pc(s). | 425                | 8617.020                | -         | -                       | 8617.020  |      |
| 600                                                                 | 4 pc(s). | 525                | 8617.030                | -         | -                       | 8617.030  |      |
| 800                                                                 | 4 pc(s). | 725                | 8617.040                | -         | -                       | 8617.040  |      |
| 1000                                                                | 4 pc(s). | 925                | 8617.050                | -         | -                       | 8617.050  |      |
| 1200                                                                | 4 pc(s). | 1125               | 8617.060                | -         | -                       | 8617.060  |      |

<sup>1)</sup> A = Rail mounting distance  
<sup>2)</sup> Only suitable for installation in the roof



| Punched section with mounting flange 23 x 64 mm, installation in VX, VX SE |          |                    |                         |                         |           |      |
|----------------------------------------------------------------------------|----------|--------------------|-------------------------|-------------------------|-----------|------|
| For enclosure width/height/depth mm                                        | Packs of | A <sup>1)</sup> mm | Model No. <sup>2)</sup> | Model No. <sup>2)</sup> | Model No. | Page |
| 300                                                                        | 4 pc(s). | 225                | 8617.100                | 8617.100                | -         | 991  |
| 400                                                                        | 4 pc(s). | 325                | 8617.110                | 8617.110                | -         |      |
| 500                                                                        | 4 pc(s). | 425                | 8617.120                | 8617.120                | -         |      |
| 600                                                                        | 4 pc(s). | 525                | 8617.130                | 8617.130                | -         |      |
| 800                                                                        | 4 pc(s). | 725                | 8617.140                | 8617.140                | -         |      |
| 1000                                                                       | 4 pc(s). | 925                | 8617.150                | 8617.150                | -         |      |
| 1200                                                                       | 4 pc(s). | 1125               | 8617.160                | 8617.160                | -         |      |
| 1,400                                                                      | 4 pc(s). | 1325               | 8617.170                | 8617.170                | -         |      |
| 1600                                                                       | 4 pc(s). | 1525               | 8617.180                | 8617.180                | -         |      |
| 1800                                                                       | 4 pc(s). | 1725               | 8617.190                | 8617.190                | -         |      |
| 2000                                                                       | 4 pc(s). | 1925               | 8617.200                | 8617.200                | -         |      |
| 2200                                                                       | 4 pc(s). | 2125               | 8617.210                | 8617.210                | -         |      |

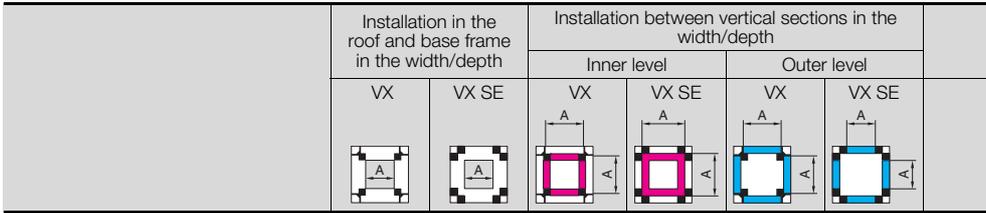
<sup>1)</sup> A = Rail mounting distance  
<sup>2)</sup> For the installation on the vertical section of the VX SE, the adaptor rail VX is required, see page 995



# Interior installation

## Rail systems

### VX/VX SE installation examples with system rails

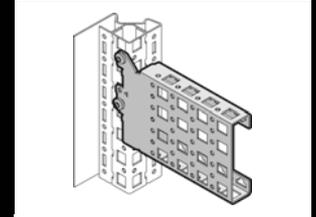
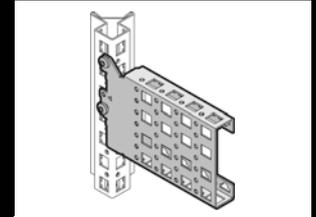


#### Punched section with mounting flange 23 x 89 mm, stainless steel, installation in VX, VX SE

| For enclosure width/depth mm | Packs of | A <sup>1)</sup> mm | Model No. <sup>2)</sup> | Model No. <sup>2)</sup> | Model No. | Page |
|------------------------------|----------|--------------------|-------------------------|-------------------------|-----------|------|
| 400                          | 2 pc(s). | 325                | 8100.730                | 8100.730                | -         | 991  |
| 500                          | 2 pc(s). | 425                | 8100.731                | 8100.731                | -         |      |
| 600                          | 2 pc(s). | 525                | 8100.732                | 8100.732                | -         |      |
| 800                          | 2 pc(s). | 725                | 8100.733                | 8100.733                | -         |      |

<sup>1)</sup> A = Rail mounting distance

<sup>2)</sup> For the installation on the vertical section of the VX SE, the adaptor rail VX is required, see page 995

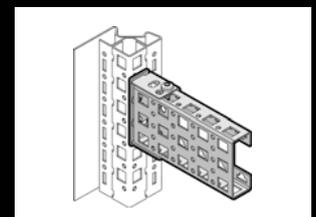
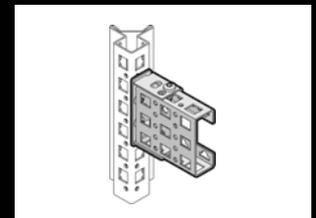


#### Punched section without mounting flange 23 x 64 mm, installation in VX, VX SE

| For enclosure width/height/depth mm | Packs of | A <sup>1)</sup> mm | Model No. <sup>2)</sup> | Model No. <sup>2)</sup> | Model No. | Page |
|-------------------------------------|----------|--------------------|-------------------------|-------------------------|-----------|------|
| 400                                 | 2 pc(s). | 325                | 8100.740                | 8100.740                | -         | 993  |
| 500                                 | 2 pc(s). | 425                | 8100.741                | 8100.741                | -         |      |
| 600                                 | 2 pc(s). | 525                | 8100.742                | 8100.742                | -         |      |
| 800                                 | 2 pc(s). | 725                | 8100.743                | 8100.743                | -         |      |
| 1200                                | 2 pc(s). | 1125               | 8100.745                | 8100.745                | -         |      |

<sup>1)</sup> A = Rail mounting distance

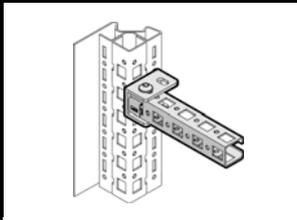
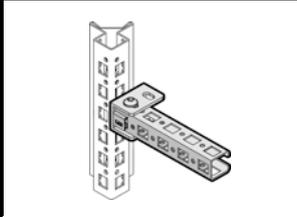
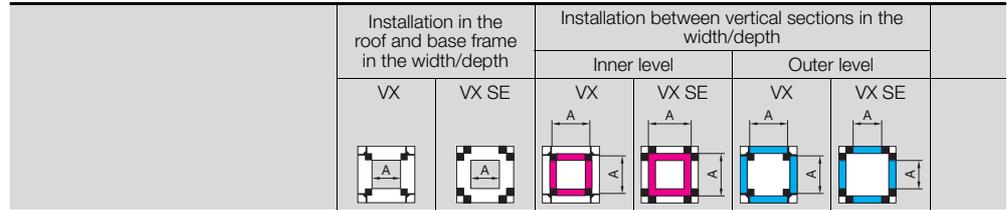
<sup>2)</sup> For the installation on the vertical section of the VX SE, the adaptor rail VX is required, see page 995



# Interior installation

## Rail systems

### VX/VX SE installation examples with system rails



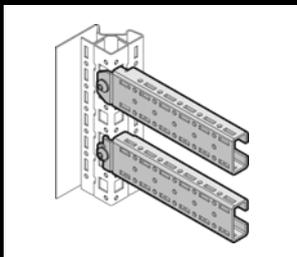
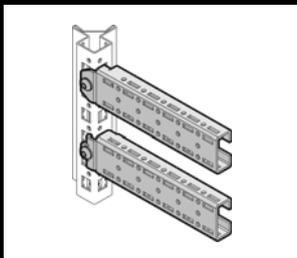
#### Punched rail 23 x 23 mm, installation in VX, VX SE

| For enclosure width/height/depth mm | Packs of  | A <sup>1)</sup> mm | Model No. <sup>2) 3)</sup> | Model No. <sup>2) 3)</sup> | Model No. | Page |
|-------------------------------------|-----------|--------------------|----------------------------|----------------------------|-----------|------|
| 400                                 | 12 pc(s). | 325                | 4169.000                   | 4169.000                   | -         | 994  |
| 500                                 | 12 pc(s). | 425                | 4170.000                   | 4170.000                   | -         |      |
| 600                                 | 12 pc(s). | 525                | 4171.000                   | 4171.000                   | -         |      |
| 800                                 | 12 pc(s). | 725                | 4172.000                   | 4172.000                   | -         |      |
| 1000                                | 12 pc(s). | 925                | 4173.000                   | 4173.000                   | -         |      |
| 1200                                | 6 pc(s).  | 1125               | 4174.000                   | 4174.000                   | -         |      |
| 1400                                | 6 pc(s).  | 1325               | 4393.000                   | 4393.000                   | -         |      |
| 1600                                | 6 pc(s).  | 1525               | 4175.000                   | 4175.000                   | -         |      |
| 1800                                | 6 pc(s).  | 1725               | 4176.000                   | 4176.000                   | -         |      |
| 2000                                | 6 pc(s).  | 1925               | 4177.000                   | 4177.000                   | -         |      |
| 2200                                | 6 pc(s).  | 2125               | 4178.000                   | 4178.000                   | -         |      |

<sup>1)</sup> A = Rail mounting distance

<sup>2)</sup> For the installation on the vertical section of the VX SE, the adaptor rail VX is required, see page 995

<sup>3)</sup> For the installation in VX and VX SE, the mounting bracket 4182.000 and a U nut are required, see page 1002/1003



#### Punched rail 18 x 39 mm, installation in VX, VX SE

| For enclosure width/depth mm | Packs of | A <sup>1)</sup> mm | Model No. <sup>2)</sup> | Model No. <sup>2)</sup> | Model No. | Page |
|------------------------------|----------|--------------------|-------------------------|-------------------------|-----------|------|
| 400                          | 4 pc(s). | 325                | 8617.700                | 8617.700                | -         | 993  |
| 500                          | 4 pc(s). | 425                | 8617.710                | 8617.710                | -         |      |
| 600                          | 4 pc(s). | 525                | 8617.720                | 8617.720                | -         |      |
| 800                          | 4 pc(s). | 725                | 8617.730                | 8617.730                | -         |      |

<sup>1)</sup> A = Rail mounting distance

<sup>2)</sup> For the installation on the vertical section of the VX SE, the adaptor rail VX is required, see page 995

# Interior installation

## Rail systems

### Rail for interior installation AX

For mounting in the enclosure, no machining required. Suitable for mounting on the side, base and roof using the locators integrated into the enclosure.

Variable with 2 rows of system punchings, creates additional mounting space e.g. for:

- Punched section with mounting flange, 14 x 39 mm
- Enclosure lights
- Door-operated switch
- Door stay
- Cable conduit holder

#### Benefits:

- Only one screw for attaching the rail inside the enclosure
- Including adaptor for door-operated switch
- Compatibility with VX25 accessories
- Enclosure protection category is retained (no machining required)
- Automatic potential equalisation
- May be retro-fitted even with the mounting plate in situ, suitable for installation via gland plates

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

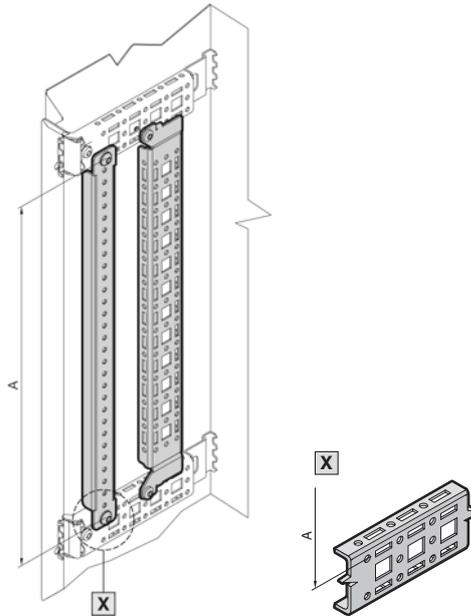


#### Also required:

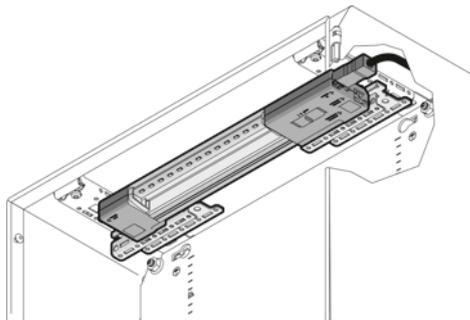
- For installing LED system light: Mounting bracket for interior installation, see page 1000

| For enclosure depth mm | Packs of | Model No.       |
|------------------------|----------|-----------------|
| 210                    | 4 pc(s). | <b>2393.210</b> |
| 250                    | 4 pc(s). | <b>2393.250</b> |
| 300                    | 4 pc(s). | <b>2393.300</b> |
| 350                    | 4 pc(s). | <b>2393.350</b> |
| 400                    | 4 pc(s). | <b>2393.400</b> |

#### Configuration examples:



A = Rail mounting distance



Mounting of LED system light



# Interior installation

## Rail systems



### Punched section with mounting flange, 14 x 39 mm

#### for AX

Interior installation in the enclosure height and width  
Locates securely onto the interior installation rail AX.

For the attachment of

- Cable ducts
- Cable conduit holder

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| For enclosure height/width mm | Distance between attachment points mm | Packs of | Model No.       |
|-------------------------------|---------------------------------------|----------|-----------------|
| 400                           | 275                                   | 4 pc(s). | <b>8619.700</b> |
| 500                           | 375                                   | 4 pc(s). | <b>8619.710</b> |
| 600                           | 475                                   | 4 pc(s). | <b>8619.720</b> |
| 700                           | 575                                   | 4 pc(s). | <b>8619.760</b> |
| 760                           | 635                                   | 4 pc(s). | <b>8619.790</b> |
| 800                           | 675                                   | 4 pc(s). | <b>8619.730</b> |
| 1000                          | 875                                   | 4 pc(s). | <b>8619.750</b> |
| 1200                          | 1075                                  | 4 pc(s). | <b>8619.770</b> |
| 1400                          | 1275                                  | 4 pc(s). | <b>8619.780</b> |



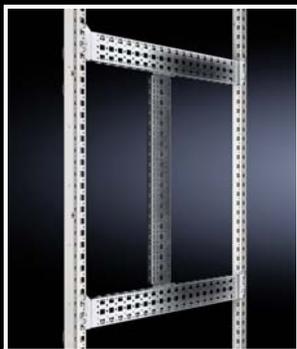
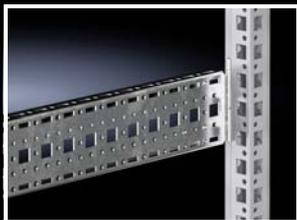
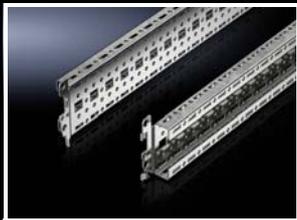
#### Also required:

- Interior installation rail AX for configuration in the enclosure height and width, see page 989



#### Accessories:

- Screws and self-tapping screws M5 for configuring the customer's own components on the punched section with mounting flange, see page 1004



### Punched section with mounting flange, 18 x 64 mm

#### for VX

For variable, individual interior installation of the enclosure frame on the outer mounting level. Simply locate into the system punchings from the outside and screw-fasten. System punchings on all four sides. With bayed enclosures, the punched sections with mounting flanges may also be fitted from the inside of the enclosure.

#### Installation options:

- On the outer mounting level, on the enclosure section
- On the outer mounting level, between two punched sections with mounting flanges 23 x 64 mm

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| For enclosure width/height/depth mm | Packs of | Model No.       |
|-------------------------------------|----------|-----------------|
| 300                                 | 4 pc(s). | <b>8617.000</b> |
| 400                                 | 4 pc(s). | <b>8617.010</b> |
| 500                                 | 4 pc(s). | <b>8617.020</b> |
| 600                                 | 4 pc(s). | <b>8617.030</b> |
| 800                                 | 4 pc(s). | <b>8617.040</b> |
| 1000                                | 4 pc(s). | <b>8617.050</b> |
| 1200                                | 4 pc(s). | <b>8617.060</b> |



#### Accessories:

- Screws, see page 1004
- Cable tie 2597.000, see page 1061

### Punched section with mounting flange, 23 x 64 mm

#### for VX, VX IT, VX SE, AX plastic

For variable and individual interior installation. Simply locate into punchings and screw-fasten. System punchings on all four sides. With slots at the top and bottom for cage nuts, for attaching your own components via metric screws.

#### Installation options:

VX/VX IT

- On the inner mounting level, on the enclosure section VX

VX SE

- On the vertical section of the VX SE with adaptor rail VX

AX plastic

- In the width and height of the enclosure in conjunction with universal bracket

System accessories

- On identical punched sections with mounting flanges
- In the base/plinth system VX in the width and depth, combined with a base/plinth installation bracket

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| For enclosure width/height/depth mm | Packs of | Model No.       |
|-------------------------------------|----------|-----------------|
| 300                                 | 4 pc(s). | <b>8617.100</b> |
| 400                                 | 4 pc(s). | <b>8617.110</b> |
| 500                                 | 4 pc(s). | <b>8617.120</b> |
| 600                                 | 4 pc(s). | <b>8617.130</b> |
| 800                                 | 4 pc(s). | <b>8617.140</b> |
| 1000                                | 4 pc(s). | <b>8617.150</b> |
| 1200                                | 4 pc(s). | <b>8617.160</b> |
| 1400                                | 4 pc(s). | <b>8617.170</b> |
| 1600                                | 4 pc(s). | <b>8617.180</b> |
| 1800                                | 4 pc(s). | <b>8617.190</b> |
| 2000                                | 4 pc(s). | <b>8617.200</b> |
| 2200                                | 4 pc(s). | <b>8617.210</b> |



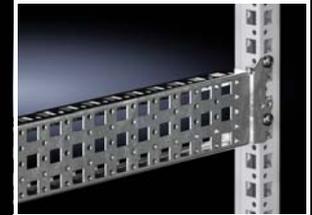
#### Also required:

- For VX SE: Adaptor rail VX, see page 995
- For AX plastic: Universal bracket 1485.200, see page 97



#### Accessories:

- Screws, see page 1004
- Cable tie 2597.000, see page 1061
- Cage nut, see page 1002
- Base/plinth installation bracket, see page 885



### Punched section with mounting flange, 23 x 89 mm

#### Stainless steel for VX, VX SE

For variable, individual interior installation of the enclosure frame on the inner mounting level. Simply locate into punchings and screw-fasten. System punchings on all four sides. With slots at the top and bottom for cage nuts, for attaching your own components via metric screws. Especially for cable routing in the base/plinth system VX, stainless steel and for the installation of busbar supports (non-magnetic stainless steel).

#### Installation options:

VX

- On the inner mounting level, on the enclosure section VX

VX SE

- On the vertical section of the VX SE with adaptor rail VX

System accessories

- On identical punched sections with mounting flanges
- In the base/plinth system VX, stainless steel, in the width and depth, combined with a base/plinth installation bracket

#### Material:

- Stainless steel

#### Supply includes:

- Assembly parts

| For enclosure width/depth mm | Packs of | Model No.       |
|------------------------------|----------|-----------------|
| 400                          | 2 pc(s). | <b>8100.730</b> |
| 500                          | 2 pc(s). | <b>8100.731</b> |
| 600                          | 2 pc(s). | <b>8100.732</b> |
| 800                          | 2 pc(s). | <b>8100.733</b> |



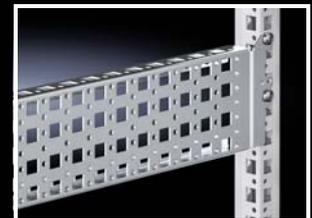
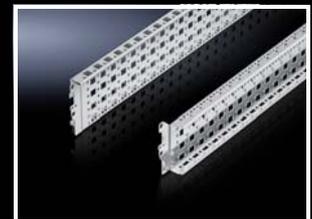
#### Also required:

- For VX SE: Adaptor rail VX, see page 995



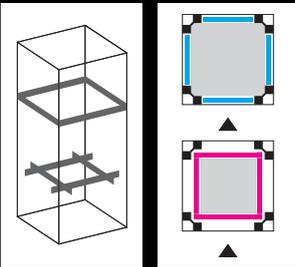
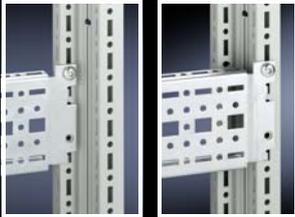
#### Accessories:

- Screws, see page 1004
- Cable tie 2597.000, see page 1061
- Cage nut, see page 1002
- Base/plinth installation bracket, see page 885



# Interior installation

## Rail systems



### Punched section with mounting flange, 17 x 73 mm

#### for VX SE, TP, PC, IW

For universal skeleton structures or partial assembly. Simply locate onto the punchings and secure.

#### Installation options:

##### VX SE, PC, IW

- On the vertical enclosure section
  - On the outer mounting level, all-round, at the same height
  - On the inner mounting level, all-round, height-offset

##### VX SE, PC

- On the horizontal enclosure extrusion
  - May be mounted on the top horizontal section in the depth

##### TP

- Via rail for interior installation
  - In the depth, for outer mounting level
  - In the width, for inner mounting level

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly screws



#### Also required:

- For installation in TP: Rail for interior installation, see page 995



#### Accessories:

- Screws, see page 1004
- Cable tie for fast assembly 2597.000, see page 1061.

#### For the outer mounting level

| For enclosure width/depth mm | Packs of | Model No.       |
|------------------------------|----------|-----------------|
| 300                          | 4 pc(s). | <b>8612.130</b> |
| 400                          | 4 pc(s). | <b>8612.140</b> |
| 500                          | 4 pc(s). | <b>8612.150</b> |
| 600                          | 4 pc(s). | <b>8612.160</b> |

#### For the inner mounting level

| For enclosure width/depth mm | Length mm | Packs of | Model No.       |
|------------------------------|-----------|----------|-----------------|
| 300                          | 290       | 4 pc(s). | <b>8612.030</b> |
| 400                          | 390       | 4 pc(s). | <b>8612.040</b> |
| 500                          | 490       | 4 pc(s). | <b>8612.050</b> |
| 600                          | 590       | 4 pc(s). | <b>8612.060</b> |

# Interior installation

## Rail systems

### Punched section without mounting flanges, 23 x 64 mm

#### for VX, VX SE

For variable, individual interior installation of the enclosure frame on the inner mounting level. Mounted flush with enclosure frame. The additional mounting brackets mean it can also be used with a pre-installed mounting plate, and is also prepared for cutting to any required length. System punchings on all four sides. With slots at the top and bottom for cage nuts, for attaching your own components via metric screws.

#### Installation options:

VX  
– On the inner mounting level, on the enclosure section

VX SE  
– On the vertical section of the VX SE with adaptor rail VX

#### System accessories

– Between two punched sections with mounting flanges for the inner mounting level  
– As installation kit for component shelves

#### Material:

– Sheet steel

#### Surface finish:

– Zinc-plated

#### Supply includes:

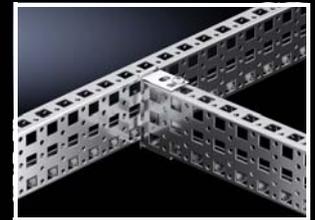
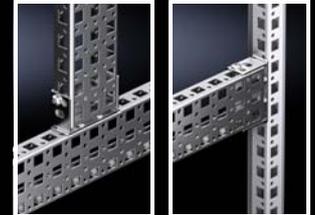
– 1 pack =  
2 punched sections without mounting flanges 23 x 64 mm  
4 mounting brackets

| For enclosure width/height/depth mm | Packs of | Model No.       |
|-------------------------------------|----------|-----------------|
| 400                                 | 2 pc(s). | <b>8100.740</b> |
| 500                                 | 2 pc(s). | <b>8100.741</b> |
| 600                                 | 2 pc(s). | <b>8100.742</b> |
| 800                                 | 2 pc(s). | <b>8100.743</b> |
| 1200                                | 2 pc(s). | <b>8100.745</b> |



#### Also required:

– For VX SE: Adaptor rail VX, see page 995



### Punched rail 18 x 39 mm

#### for VX, VX SE

For variable, individual interior installation of the enclosure frame on the inner mounting level, may also be used in conjunction with other punched sections. Prepared at the rear to accommodate cable clamps for optimum cable routing inside the enclosure

#### Installation options:

VX  
– On the inner mounting level, on the enclosure section

VX SE  
– On the vertical section of the VX SE with adaptor rail VX

#### Material:

– Sheet steel

#### Surface finish:

– Zinc-plated

#### Supply includes:

– Assembly parts

| For enclosure width/depth mm | Packs of | Model No.       |
|------------------------------|----------|-----------------|
| 400                          | 4 pc(s). | <b>8617.700</b> |
| 500                          | 4 pc(s). | <b>8617.710</b> |
| 600                          | 4 pc(s). | <b>8617.720</b> |
| 800                          | 4 pc(s). | <b>8617.730</b> |

#### Note:

– In enclosures with a mounting plate, two punched rails (as mounting plate slide rails) are already included with the supply



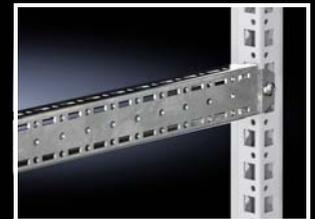
#### Also required:

– For VX SE: Adaptor rail VX, see page 995



#### Accessories:

– Screws, see page 1004  
– Cable tie 2597.000, see page 1061  
– Cable clamps, see page 1060



# Interior installation

## Rail systems



### Punched rail 23 x 23 mm for VX, VX SE

#### Installation options:

**VX**  
– To the vertical and horizontal enclosure sections via mounting brackets

#### VX SE

– To the vertical enclosure section via mounting brackets in conjunction with adaptor rail VX  
– To the horizontal section/in roof via mounting brackets in conjunction with adaptor rail VX in the depth

#### Material:

– Sheet steel

#### Surface finish:

– Zinc-plated

| Length mm | For WHD mm | Packs of  | Model No.       |
|-----------|------------|-----------|-----------------|
| 295       | 400        | 12 pc(s). | <b>4169.000</b> |
| 395       | 500        | 12 pc(s). | <b>4170.000</b> |
| 495       | 600        | 12 pc(s). | <b>4171.000</b> |
| 695       | 800        | 12 pc(s). | <b>4172.000</b> |
| 895       | 1000       | 12 pc(s). | <b>4173.000</b> |
| 1095      | 1200       | 6 pc(s).  | <b>4174.000</b> |
| 1295      | 1400       | 6 pc(s).  | <b>4393.000</b> |
| 1495      | 1600       | 6 pc(s).  | <b>4175.000</b> |
| 1695      | 1800       | 6 pc(s).  | <b>4176.000</b> |
| 1895      | 2000       | 6 pc(s).  | <b>4177.000</b> |
| 2095      | 2200       | 6 pc(s).  | <b>4178.000</b> |



#### Also required:

- For VX SE: Adaptor rail VX, see page 995
- U nuts, see page 1003
- Mounting bracket 4182.000, see page 1002



#### Accessories:

- Cable attachment, see page 1061
- Screws, see page 1004
- Cable tie for fast assembly 2597.000, see page 1061



### Support strip

#### for VX, VX SE

For simple cable routing from the mounting plate to the door.

#### Installation options:

– On the inner and outer mounting level, on the enclosure section

#### Material:

– Sheet steel

#### Surface finish:

– Zinc-plated

#### Supply includes:

– Assembly parts

#### Note:

- Installation options for TP interior installation, see page 984/985
- VX, VX SE, AX, TP, PC, IW door installation, see page 952



#### Accessories:

- Screws, see page 1004
- Cable tie 2597.000, see page 1061

| For enclosure width/depth mm | For enclosure system, inner level | For enclosure system, outer level | Rail mounting distance mm | Packs of  | Model No.       |
|------------------------------|-----------------------------------|-----------------------------------|---------------------------|-----------|-----------------|
| 400                          | VX                                | VX, VX SE                         | 325                       | 20 pc(s). | <b>4694.000</b> |
|                              | VX SE                             | –                                 | 375                       | 20 pc(s). | <b>4309.000</b> |
| 500                          | VX                                | VX, VX SE                         | 425                       | 20 pc(s). | <b>4695.000</b> |
|                              | VX SE                             | –                                 | 475                       | 20 pc(s). | <b>4596.000</b> |
| 600                          | VX                                | VX, VX SE                         | 525                       | 20 pc(s). | <b>4696.000</b> |
|                              | VX SE                             | –                                 | 575                       | 20 pc(s). | <b>8800.130</b> |
| 800                          | VX                                | VX, VX SE                         | 725                       | 20 pc(s). | <b>4697.000</b> |
|                              | VX SE                             | –                                 | 775                       | 20 pc(s). | <b>4579.000</b> |

# Interior installation

## Rail systems

### Adaptor rail VX

#### for VX compatibility for VX SE

To create compatibility of the interior installation between VX SE and VX25. The adaptor rail VX can be cut to length for customised configurations.

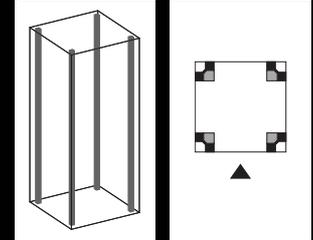
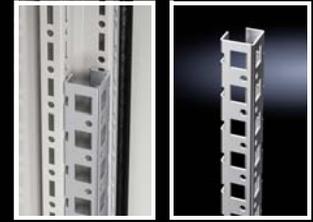
#### Installation options:

- On the vertical enclosure section of the VX SE (over the full installation height or in sub-sections)
- On the horizontal roof section of the VX SE, in the width

#### Supply includes:

- 4 adaptor rails
- Assembly parts

| For enclosure height mm | Length mm | Packs of | Model No.       |
|-------------------------|-----------|----------|-----------------|
| -                       | 200       | 4 pc(s). | <b>8617.760</b> |
| 1800                    | -         | 4 pc(s). | <b>8617.750</b> |
| 2000                    | -         | 4 pc(s). | <b>8617.751</b> |



### Rail for interior installation

#### for TP, compact enclosures HD

For mounting on the existing threaded bolts. With system punchings on three sides.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| For enclosure width mm | For enclosure height mm | For enclosure height mm | Packs of | Model No.       |
|------------------------|-------------------------|-------------------------|----------|-----------------|
| TP <sup>1)</sup>       | TP <sup>2)</sup>        | HD                      |          |                 |
| 600                    | 675                     | 650                     | 4 pc(s). | <b>5001.050</b> |
| 800                    | 960                     | -                       | 4 pc(s). | <b>5001.051</b> |
| 1000                   | -                       | 1050                    | 4 pc(s). | <b>5001.052</b> |
| 1200                   | -                       | 1250                    | 4 pc(s). | <b>5001.053</b> |
| 1600                   | -                       | -                       | 4 pc(s). | <b>5001.054</b> |

- <sup>1)</sup> Only with TP console and desk unit (cover or rear panel/base), one-piece console in cover  
<sup>2)</sup> Only with TP pedestal/one-piece console

#### Note:

- Installation options TP, see page 984/985
- Installation options HD, see page 225



### Base configuration rail

#### for TP

For mounting in the enclosure depth, on the existing threaded bolts, no machining required. System punchings on 2 sides. Creates additional installation options.

#### Material:

- Sheet steel

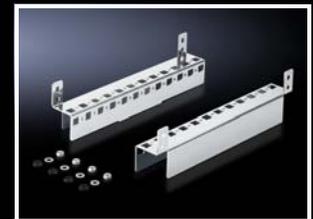
#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| For enclosure depth mm | Packs of | Model No.       |
|------------------------|----------|-----------------|
| 400                    | 2 pc(s). | <b>5001.370</b> |



# Interior installation

## Rail systems



### C rail 30/15 to EN 60 715, for VX, VX SE

- Installation options:**
- On the inner mounting level, on the enclosure section
  - In the base/plinth VX

- Material:**
- Sheet steel

- Surface finish:**
- Zinc-plated

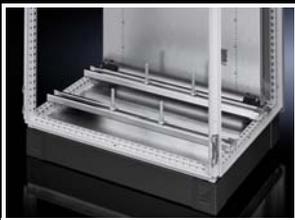
| For enclosure width/depth mm | Length mm | Packs of | Model No.       |
|------------------------------|-----------|----------|-----------------|
| 500                          | 455       | 6 pc(s). | <b>4943.000</b> |
| 600                          | 555       | 6 pc(s). | <b>4944.000</b> |
| 800                          | 755       | 6 pc(s). | <b>4945.000</b> |
| 1000                         | 955       | 6 pc(s). | <b>4946.000</b> |
| 1200                         | 1155      | 6 pc(s). | <b>4947.000</b> |

#### + Accessories:

- Cable clamps, see page 1060
- Support bracket or spacer, see page 1001
- Quick-assembly block, see page 1001

#### ⇒ Possible alternative:

- Rail for EMC shielding bracket and strain relief, see page 1029



### Support rail 48 x 26 mm for VX, VX SE

For heavy installed equipment such as transformers. T-head screw and slots in the support rail accommodate all mounting dimensions.

- Installation options:**
- VX
- On the inner mounting level, on the enclosure section

- VX SE
- On the inner mounting level, on the enclosure section in conjunction with adaptor rail VX

- Material:**
- Sheet steel

- Surface finish:**
- Zinc-plated

- Supply includes:**
- Assembly parts

| For enclosure width mm | Packs of | Model No.       |
|------------------------|----------|-----------------|
| 600                    | 2 pc(s). | <b>8617.800</b> |
| 800                    | 2 pc(s). | <b>8617.810</b> |
| 1000                   | 2 pc(s). | <b>8617.820</b> |
| 1200                   | 2 pc(s). | <b>8617.830</b> |

#### ! Also required:

- For VX SE: Adaptor rail VX, see page 995

#### + Accessories:

- Punched section with mounting flange 23 x 64 mm for height-offset installation, see page 991



### Support rail 75 x 20 mm for VX, VX SE

For heavy installed equipment such as base isolators or transformers.

- Installation options:**
- VX
- On the inner mounting level, on the enclosure section

- VX SE
- On the inner mounting level, on the enclosure section in conjunction with adaptor rail VX

- Material:**
- Sheet steel

- Surface finish:**
- Zinc-plated

- Supply includes:**
- Assembly parts

| For enclosure width/depth mm | Packs of | Model No.       | Model No.       |
|------------------------------|----------|-----------------|-----------------|
|                              |          | Slotted         | Unslotted       |
| 400                          | 4 pc(s). | <b>4394.000</b> | –               |
| 500                          | 4 pc(s). | <b>4395.000</b> | –               |
| 600                          | 4 pc(s). | <b>4396.000</b> | <b>4396.500</b> |
| 800                          | 4 pc(s). | <b>4398.000</b> | <b>4398.500</b> |

#### ! Also required:

- For VX SE: Adaptor rail VX, see page 995

# Interior installation

## Rail systems

### Support rail 65 x 42 mm

#### for VX, VX SE

For heavy installed equipment such as base isolators or transformers.

#### Installation options:

VX

- On the inner mounting level, on the enclosure section

VX SE

- On the inner mounting level, on the enclosure section in conjunction with adaptor rail VX

#### Material:

- Steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

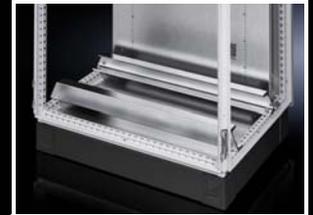
- Assembly parts

| For enclosure width mm | Packs of | Model No.       |
|------------------------|----------|-----------------|
| 600                    | 2 pc(s). | <b>8612.960</b> |
| 800                    | 2 pc(s). | <b>8612.980</b> |



#### Also required:

- For VX SE: Adaptor rail VX, see page 995



### Support rails TS 35/15

#### to EN 60 715

#### for VX, VX SE

Mounting on the vertical section via

- threaded block M8, 4163.000, see page 1003

| For enclosure width/depth mm | Support rail length mm | Packs of | Model No.       |
|------------------------------|------------------------|----------|-----------------|
| 500                          | 455                    | 6 pc(s). | <b>4933.000</b> |
| 600                          | 555                    | 6 pc(s). | <b>4934.000</b> |
| 800                          | 755                    | 6 pc(s). | <b>4935.000</b> |
| 1200                         | 1155                   | 6 pc(s). | <b>4937.000</b> |
| -                            | 2000                   | 6 pc(s). | <b>2313.150</b> |

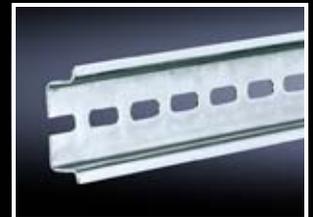


### Support rails TS 35/7.5 and TS 35/15

#### to EN 60 715

#### for KX, AX, terminal box HD

| For enclosure width mm | Support rail length mm | Version   | Packs of  | Model No.       |
|------------------------|------------------------|-----------|-----------|-----------------|
| 150                    | 137                    | TS 35/7.5 | 10 pc(s). | <b>2314.000</b> |
| 200                    | 187                    |           | 10 pc(s). | <b>2315.000</b> |
| 300                    | 287                    |           | 10 pc(s). | <b>2316.000</b> |
| 400                    | 387                    |           | 10 pc(s). | <b>2317.000</b> |
| -                      | 2000                   |           | 6 pc(s).  | <b>2313.750</b> |
| 500                    | 487                    | TS 35/15  | 10 pc(s). | <b>2318.000</b> |
| 600                    | 587                    |           | 10 pc(s). | <b>2319.000</b> |



### Mounting clip

For fast, secure attachment of:

- Cable ducts
- Mounting plates
- Mounting angles

on support rail TS 35/7.5 and 35/15 to EN 60 715.

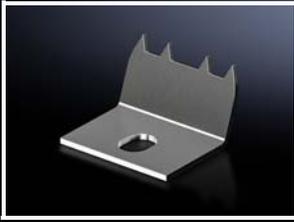
Simply pre-assemble the mounting clip on the part to be installed, then snap into position on the support rail.

| Packs of  | Model No.       |
|-----------|-----------------|
| 30 pc(s). | <b>2309.000</b> |



# Interior installation

## Rail systems



### Mounting claw for second mounting level

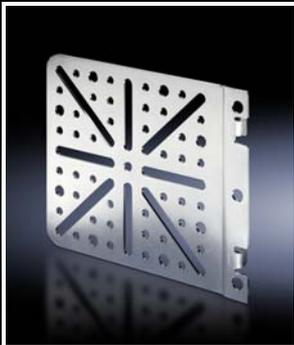
#### for terminal boxes KX, bus enclosures KX

For fixing top hat rails directly onto the rear panel of KX terminal boxes and KX bus enclosures. Creates an additional mounting level with an extra 10 mm of installation depth without having to machine the enclosure.

| Packs of  | Model No. |
|-----------|-----------|
| 20 pc(s). | 2309.100  |

#### Accessories:

- Support rails TS 35/7.5 to EN 60 715, see page 997



### Mounting plate

#### Locatable for AX, VX, VX SE

#### Installation options:

- On the inner and outer mounting level, on the enclosure section
- On punched sections with mounting flanges
- On rail for interior installation AX
- On the perforated door strip AX

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

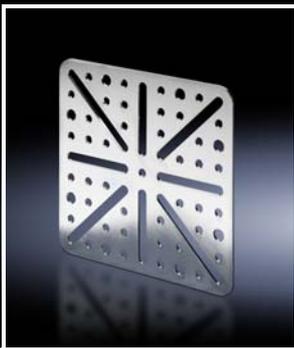
#### Supply includes:

- Assembly screws

| Packs of | Model No. |
|----------|-----------|
| 4 pc(s). | 8612.400  |

#### Accessories:

- Screws, see page 1004
- Cable tie 2597.000, see page 1061



### Mounting plate

#### Screw-fastened, large for AX, VX, VX SE, AX plastic

#### Installation options:

- On all enclosures and mounting parts with system punchings on a 25 mm pitch pattern
- On the perforated door strip AX

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly screws

| Packs of | Model No. |
|----------|-----------|
| 4 pc(s). | 8612.410  |

#### Accessories:

- Screws, see page 1004
- Cable tie 2597.000, see page 1061

# Interior installation

## Rail systems

### Mounting plate

**Screw-fastened, small for AX, VX, VX SE, AX plastic**

**Installation options:**

- On all enclosures and mounting parts with system punchings on a 25 mm pitch pattern
- On the perforated door strip AX

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

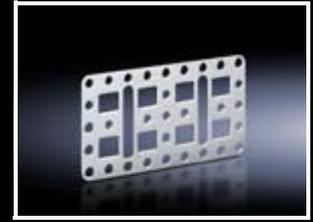
- Assembly screws

| Packs of | Model No. |
|----------|-----------|
| 4 pc(s). | 4532.000  |



**Accessories:**

- Screws, see page 1004
- Cable tie 2597.000, see page 1061



### Mounting plate

**with integral top hat rail for AX, VX, VX SE, AX IT, VX IT, TE**

For direct snap-mounting of components such as speed control, enclosure internal thermostat and hygrostat.

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts

| Packs of | Model No. |
|----------|-----------|
| 1 pc(s). | 7526.964  |



### Mounting bracket

**Installation options:**

- On all enclosures and mounting parts with system punchings on a 25 mm pitch pattern

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

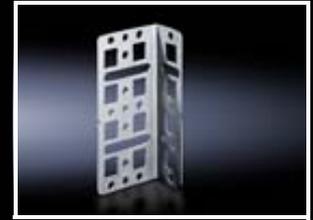
- Assembly screws

| Packs of | Model No. |
|----------|-----------|
| 4 pc(s). | 4597.000  |



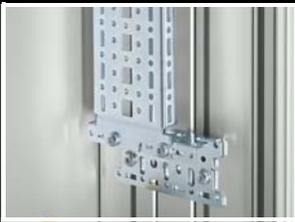
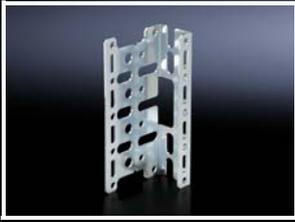
**Accessories:**

- Screws, see page 1004
- Cable tie 2597.000, see page 1061



# Interior installation

## Rail systems



### Mounting bracket

#### for interior installation

For installing punched sections with mounting flanges and support strips in

- Comfort Panel horizontal/vertical from 74 mm installation depth

or for installing in:

- Optipanel from an installation depth of 100 mm

For installing the LED system light in

- compact enclosures AX in conjunction with the rail for interior installation AX, see page 989, without machining and without the use of tools

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 4 pc(s). | <b>6205.100</b> |

### Mounting options in Comfort Panel/Optipanel

|                                      |            | Front panel width 482.6 mm (19") | Page |
|--------------------------------------|------------|----------------------------------|------|
| Punched section with mounting flange | Horizontal | 8612.150                         | 992  |
|                                      | Vertical   |                                  |      |
| Support strips                       | Horizontal | 4695.000                         | 994  |
|                                      | Vertical   |                                  |      |

# Interior installation

## Assembly components

### Bracket/spacer

For flexible attachment of C rails, punched rails or cable clamp rails (angle piece). On the sides, to accommodate square sections or tubes ( $\varnothing$  20 mm). Attachment points with M8 thread.

#### Installation options:

- On vertical and horizontal VX, VX SE enclosure section
- On punched sections with mounting flanges for the inner mounting level
- On enclosures and rails with rectangular system punching 12.5 x 11 mm

#### Material:

- Die-cast zinc

#### Supply includes:

- 1 pc(s). =
  - 1 bracket/spacer
  - 2 screws M8 x 16 mm
  - 2 spring lock washers
  - 2 cage nuts M8
  - 2 screws

| Packs of | Model No. |
|----------|-----------|
| 6 pc(s). | 4199.000  |



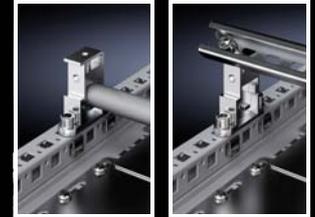
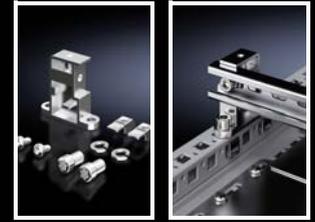
#### Also required:

- For VX SE: Adaptor rail VX, see page 995



#### Accessories:

- Angle piece 4134.000, see page 1001



### Quick-assembly block

for a variety of installation options.

#### Installation options:

- On vertical and horizontal VX, VX SE enclosure section
- On punched sections with mounting flanges for the inner mounting level
- On enclosures and rails with rectangular system punching 12.5 x 11 mm

#### Material:

- Die-cast zinc

#### Supply includes:

- 12 quick-assembly blocks
- 12 threaded blocks M8
- 24 screws M8 x 12 mm
- 24 square nuts M8

| Packs of  | Model No. |
|-----------|-----------|
| 12 pc(s). | 4133.000  |



#### Also required:

- For VX SE: Adaptor rail VX, see page 995



#### Accessories:

- Angle piece 4134.000, see page 1001



### Angle piece

For assembling mounting surfaces with a 45° incline. Optimum positioning of cable clamp rails, etc.

With two mounting options as standard:

- Conductively connected to the subsurface
- Insulated from the mounting surface

#### Installation options:

- On vertical and horizontal VX, VX SE enclosure section
- On punched sections with mounting flanges for the inner mounting level
- On the bracket/spacer
- On the quick-assembly block
- On enclosures and rails with rectangular system punching 12.5 x 11 mm

#### Material:

- Angle pieces: Die-cast zinc
- Insulating pieces: Plastic

#### Supply includes:

- 1 pc(s). =
  - 1 angle piece
  - 1 insulating piece
  - 1 insulating screw
  - 2 assembly screws
  - 1 threaded block M8

| Packs of  | Model No. |
|-----------|-----------|
| 12 pc(s). | 4134.000  |



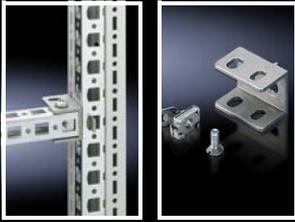
#### Also required:

- For VX SE: Adaptor rail VX, see page 995



# Interior installation

## Assembly components



### Mounting bracket

#### for VX, VX SE

For variable attachment of punched rail 23 x 23 mm.

#### Installation options:

- Optionally flush with the outer edge of the enclosure or the enclosure clearance width
- On the vertical VX, VX SE enclosure section
- On the horizontal VX enclosure section
- On the horizontal VX SE enclosure section, bottom
- On the horizontal VX SE enclosure section, top in the width and depth
- On enclosures and rails with rectangular system punching 12.5 x 11 mm

#### Material:

- Die-cast zinc

#### Supply includes:

- 1 pc(s). =
- 1 mounting bracket
- 1 screw M6 x 12 mm,
- 1 cage nut M6

| Packs of  | Model No.       |
|-----------|-----------------|
| 24 pc(s). | <b>4182.000</b> |



#### Also required:

- U nut (recommended: M6), see page 1003
- Multi-tooth screws M6 x 12 mm, see page 1004
- For VX SE: Adaptor rail VX, see page 995



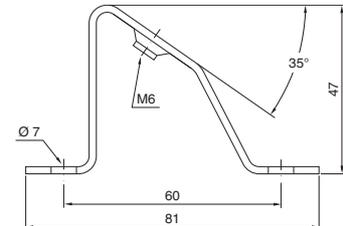
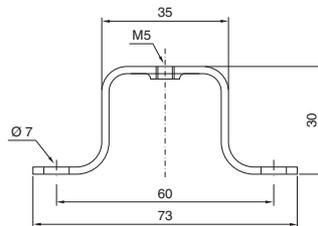
### Rail mounting bracket

For individual mounting of rails at a distance from the mounting surface.

#### Material:

- Sheet steel, zinc-plated

| Rail mounting bracket | Packs of  | Model No.       |
|-----------------------|-----------|-----------------|
| Flat                  | 20 pc(s). | <b>2365.000</b> |
| Inclined              | 20 pc(s). | <b>2366.000</b> |



### Cage nut

For all-round metric mounting on the enclosure section.

#### Benefits:

- For all-round mounting on the enclosure section
- The compression spring, designed as an insertion aid, ensures reliable mechanical and electrical connection in the system punchings.
- Simply slides in from the side
- Safely and easily released with a screwdriver

#### Installation options:

- On vertical and horizontal VX, VX SE enclosure section
- On punched sections with mounting flanges, 23 x 64 mm
- On punched sections with mounting flanges, 23 x 89 mm, stainless steel
- On punched rails 23 x 23 mm
- On punched section without mounting flanges, 23 x 64 mm
- On enclosures and rails with rectangular system punching 12.5 x 11 mm

| Thread | Packs of  | Model No.       |
|--------|-----------|-----------------|
| M5     | 20 pc(s). | <b>4166.500</b> |
| M6     | 20 pc(s). | <b>4164.500</b> |
| M8     | 20 pc(s). | <b>4165.500</b> |



#### Also required:

- For VX SE: Adaptor rail VX, see page 995



# Interior installation

## Assembly components

### U nut

#### for punched rail 23 x 23 mm

For mounting punched rails and punched sections without mounting flanges on mounting brackets, we recommend U nuts with M6 thread 4179.000.

| Thread | Packs of  | Model No. |
|--------|-----------|-----------|
| M4     | 20 pc(s). | 4119.000  |
| M5     | 20 pc(s). | 4157.000  |
| M6     | 20 pc(s). | 4179.000  |
| M8     | 20 pc(s). | 4180.000  |



#### Accessories:

- Multi-tooth screws M6 x 12 mm, for 4179.000, see page 1004



### Threaded block

For all-round metric mounting in the enclosure section. With snap-off insertion aid, made from die-cast zinc.

#### Installation options:

- On vertical and horizontal VX, VX SE enclosure section
- On punched sections with mounting flanges, 23 x 64 mm
- On punched sections with mounting flanges, 23 x 89 mm, stainless steel
- On punched rails 23 x 23 mm
- On punched section without mounting flanges, 23 x 64 mm
- On enclosures and rails with rectangular system punching 12.5 x 11 mm

| Thread | Packs of  | Model No. |
|--------|-----------|-----------|
| M6     | 50 pc(s). | 4162.000  |
| M8     | 50 pc(s). | 4163.000  |



#### Also required:

- For VX SE: Adaptor rail VX, see page 995



### Spring nut M5

For

- Comfort Panel from an installation depth of 74 mm
- Optipanel from an installation depth of 100 mm
- Compact Panel

The spring ensures reliable protection against unintentional displacement.

Other interior installation, e.g. with

- Mounting bracket 4597.000, see page 999 or
- mounting bracket components for interior installation 6205.100, see page 1000

#### Material:

- Steel, zinc-plated

| Packs of  | Model No. |
|-----------|-----------|
| 50 pc(s). | 6108.000  |



# Interior installation

## Assembly components



### Universal bracket

For the installation of

- Enclosure lights in
  - Compact enclosures AX
- Door-operated switches in
  - Compact enclosures AX
  - TopConsole system TP
- Cable conduit holders 2593.000 and 2591.000 in
  - Compact enclosures AX
- Support rails for terminals in
  - Operating housings and operating housings with door

Mounting screws are concealed when the door is closed. Offers variable mounting options in compact enclosures, command panels and consoles.

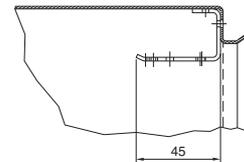
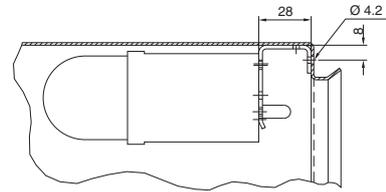
#### Material:

- Sheet steel, zinc-plated

#### Supply includes:

- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 6 pc(s). | <b>2373.000</b> |



### Multi-tooth screw

M6 x 12 to fit:

- Cage nuts 4164.500
- U nuts 4179.000
- Threaded blocks 4162.000

M8 x 12 to fit:

- Cage nuts 4165.500
- U nuts 4180.000
- Threaded blocks 4163.000

Multi-tooth drive for optimum transmission of torques, an extended tool life and increased safety and reliability when tightening and loosening screw connections.

| Type of screw                                | Dimensions mm      | Packs of                 | ModelNo.                           |
|----------------------------------------------|--------------------|--------------------------|------------------------------------|
| Multi-tooth screws                           | M6 x 12<br>M8 x 12 | 300 pc(s).<br>300 pc(s). | <b>2504.500</b><br><b>2504.800</b> |
| Metal multi-tooth screws                     | 5.5 x 13           | 300 pc(s).               | <b>2486.600</b>                    |
| Metal multi-tooth screws for stainless steel | 5 x 13             | 300 pc(s).               | <b>2486.400</b>                    |
| Self-tapping screws                          |                    |                          |                                    |
| - Hex screws                                 | M5 x 10            | 500 pc(s).               | <b>2504.000</b>                    |
| - Posidrive raised countersunk screws        | M5 x 12            | 500 pc(s).               | <b>2488.000</b>                    |
| - Pan-head screws, posidrive                 | M5 x 12            | 500 pc(s).               | <b>2489.000</b>                    |
| - Multi-tooth pan-head screws                | M5 x 12            | 500 pc(s).               | <b>2489.500</b>                    |
| Self-tapping screws                          | ST 4.8 x 16        | 300 pc(s).               | <b>2487.000</b>                    |



### Metal multi-tooth screw

For the round holes Ø 4.5 mm in the enclosure section, punched rails and punched sections without mounting flanges.



### Self-tapping screw

For the round holes Ø 4.5 mm in the enclosure section, punched rails and punched sections without mounting flanges.



### Self-tapping screw

Mark, drill and tighten in a single operation using electric or pneumatic tools.

For metal thickness: 0.8 – 3 mm  
Length: 16 mm  
Usable length: 9.5 mm  
Width across flats: 8 mm

# Interior installation

## Assembly components

### Connection kit

#### for separated frame VX IT

Every VX IT frame is easily converted to a rack suitable for dismantling. To this end, the frame sections in the roof and base frame must be separated, optionally in the width or depth. The four connection components are inserted into the frame section and screw-fastened. The external dimensions of the frame remain unchanged.

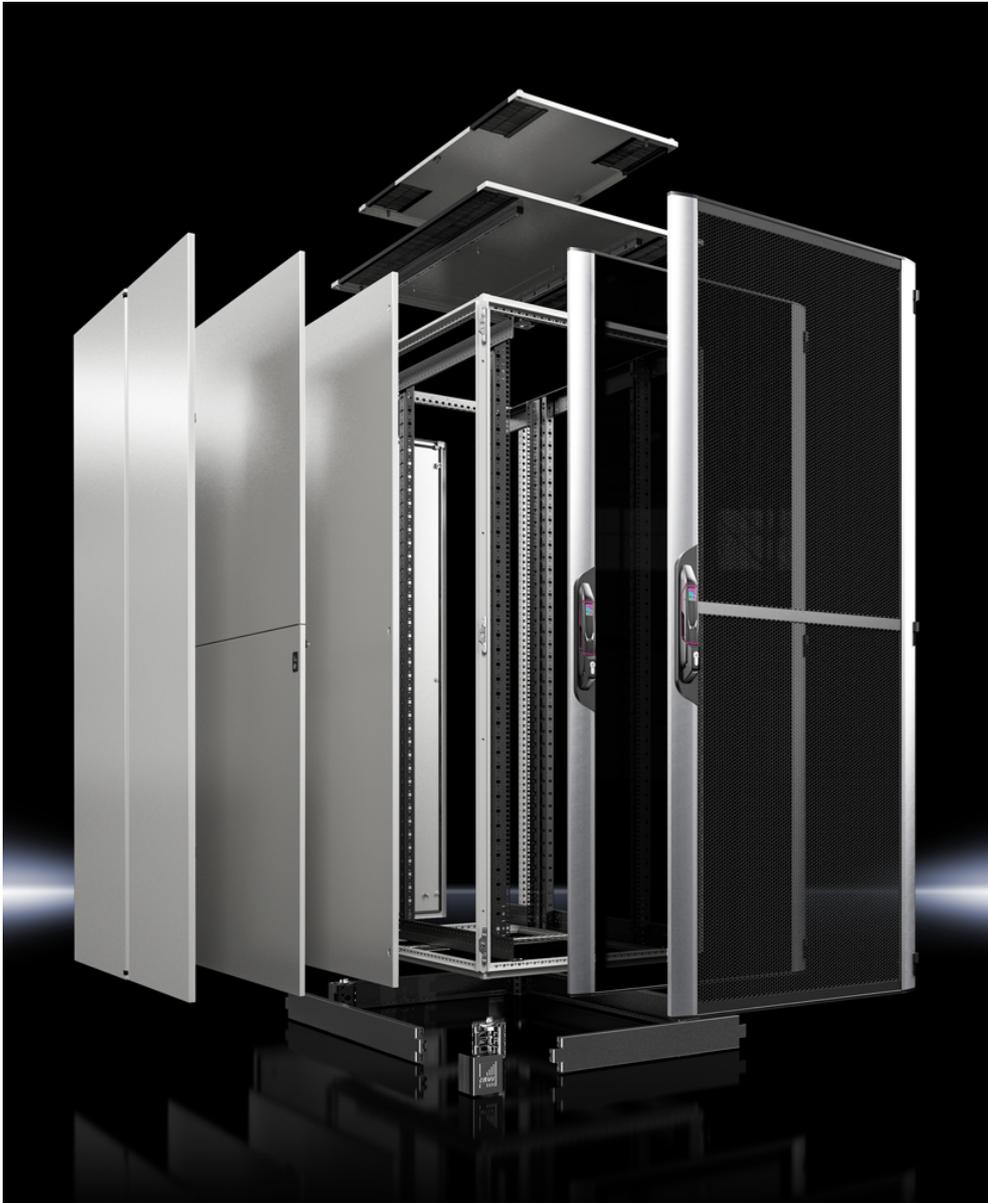
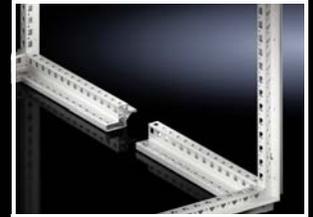
#### Supply includes:

- 4 connection components, internal
- 4 connection components, external
- Earth strap
- Assembly parts

#### Note:

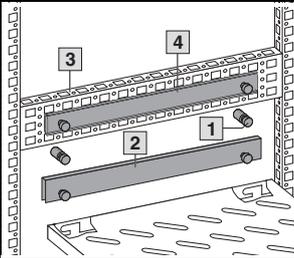
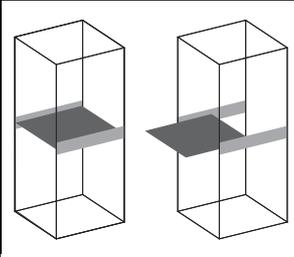
- The maximum achievable IP protection category is restricted by separation of the frame
- The static load capacity of the frame structure is reduced to 8000 N

| Packs of | Model No. |
|----------|-----------|
| 4 pc(s). | 5302.037  |



# Interior installation

## Component shelves for frame attachment



- 1** Assembly bolts
- 2** Mounting rails
- 3** Punched sections without mounting flanges
- 4** Telescopic slides

### Component shelf for frame attachment

**for empty enclosures VX and VX IT with enclosure width 600 and 800 mm**

For installation in enclosures **without** 482.6 mm (19") accommodation.  
Max. depth of component shelves = Enclosure depth - 100 mm.

#### Technical specifications:

- Mounting bolts or mounting rails may be installed on a 25 mm pitch pattern in the enclosure depth
- Mounting hole for handles provided.
- Component shelf, vented

#### Installation options:

- Static installation: Component shelf, 50 kg with fixing bolts on punched section without mounting flange
- Static installation: Component shelf, 100 kg with mounting rails on punched sections without mounting flange
- Depth variable: Component shelf with telescopic slides on punched sections without mounting flange

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 7035

#### 500 N version supply includes:

- Component shelf, vented
- 4 fixing bolts

#### 1000 N version supply includes:

- Component shelf, vented
- 2 mounting rails

#### Enclosure width 600 mm

|                                       |                 |                 |                 |                 |                 |                 |                 |                 |
|---------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Load capacity N (static surface load) | 500             | 500             | 500             | 500             | 1000            | 1000            | 1000            | 1000            |
| Component shelf width mm              | 471             | 471             | 471             | 471             | 471             | 471             | 471             | 471             |
| Component shelf depth mm              | 400             | 500             | 600             | 700             | 400             | 500             | 600             | 700             |
| Component shelf height mm             | 29              | 29              | 29              | 29              | 45              | 45              | 45              | 45              |
| <b>Model No.</b>                      | <b>7164.035</b> | <b>7165.035</b> | <b>7166.035</b> | <b>7166.735</b> | <b>7464.035</b> | <b>7465.035</b> | <b>7466.035</b> | <b>7466.735</b> |

#### Enclosure width 800 mm

|                                       |                 |                 |                 |                 |                 |                 |                 |                 |
|---------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Load capacity N (static surface load) | 500             | 500             | 500             | 500             | 1000            | 1000            | 1000            | 1000            |
| Component shelf width mm              | 671             | 671             | 671             | 671             | 671             | 671             | 671             | 671             |
| Component shelf depth mm              | 400             | 500             | 600             | 700             | 400             | 500             | 600             | 700             |
| Component shelf height mm             | 29              | 29              | 29              | 29              | 45              | 45              | 45              | 45              |
| <b>Model No.</b>                      | <b>7184.035</b> | <b>7185.035</b> | <b>7186.035</b> | <b>7186.735</b> | <b>7484.035</b> | <b>7485.035</b> | <b>7486.035</b> | <b>7486.735</b> |

#### Accessories:

|                                                                               |       | Model No. |          |          |          |          |          |          |          |
|-------------------------------------------------------------------------------|-------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Telescopic slides                                                             |       | 7061.000  | 7081.000 | 7161.000 | 7161.700 | 7064.000 | 7065.000 | 7066.000 | 7066.700 |
| Handles for component shelves                                                 |       | 5501.730  | 5501.730 | 5501.730 | 5501.730 | 5501.730 | 5501.730 | 5501.730 | 5501.730 |
| Cable support, hinged, with anti-kink device and clamp for enclosure depth mm | ≤ 600 | 7163.560  | 7163.560 | 7163.560 | 7163.560 | 7163.560 | 7163.560 | 7163.560 | 7163.560 |
|                                                                               | > 600 | 7163.565  | 7163.565 | 7163.565 | 7163.565 | 7163.565 | 7163.565 | 7163.565 | 7163.565 |

#### Also required:

|                                                                                                            |           | Model No. |
|------------------------------------------------------------------------------------------------------------|-----------|-----------|
| Punched section without mounting flange, 23 x 64 mm, as installation kit for enclosure depth, see page 993 | 500       | 8100.741  |
|                                                                                                            | 600       | 8100.742  |
|                                                                                                            | 800       | 8100.743  |
|                                                                                                            | 1000/1200 | 8100.745  |

# Interior installation

## Component shelves for frame attachment

### Component shelf, pull-out

#### for VX SE, PC, IW

For direct mounting on the vertical enclosure section.

#### Load capacity:

- 300 N surface load, static

#### Material:

- Sheet steel

#### Colour:

- RAL 7015

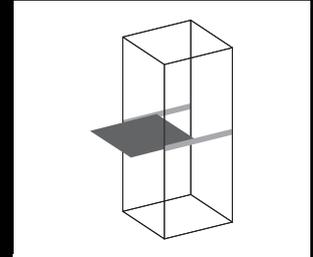
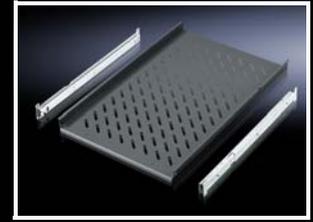
#### Supply includes:

- 2 telescopic slides

| For enclosures <sup>1)</sup> |          | Support area |          | Model No.                    |
|------------------------------|----------|--------------|----------|------------------------------|
| Width mm                     | Depth mm | Width mm     | Depth mm |                              |
| 600                          | 600      | 465          | 545      | <b>6902.960<sup>2)</sup></b> |
| 600                          | 800      | 465          | 745      | <b>6902.980</b>              |

<sup>1)</sup> For enclosures without a mounting plate

<sup>2)</sup> May also be installed in 800 mm deep enclosures (pull-out rear attachment)



### Component shelf, static installation

#### for VX SE, PC, IW

#### prepared for fan expansion kit

For direct mounting on the vertical enclosure section. Simply locate into 4 pre-fitted screws and secure.

#### Load capacity:

- 400 N surface load, static

#### Material:

- Sheet steel

#### Colour:

- RAL 7015

#### Supply includes:

- Assembly parts

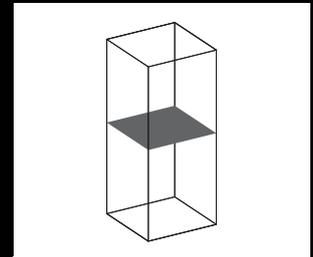
| For enclosures <sup>1)</sup> |          | Support area |          | Model No.       |
|------------------------------|----------|--------------|----------|-----------------|
| Width mm                     | Depth mm | Width mm     | Depth mm |                 |
| 600                          | 600      | 507          | 550      | <b>8800.900</b> |
| 600                          | 800      | 507          | 750      | <b>8800.910</b> |

<sup>1)</sup> For enclosures without a mounting plate



#### Accessories:

- Fan expansion kit 7980.XXX, see page 790



### Drawer tray

#### for IW, PC

#### pull-out

Width 600 mm and depth 600 – 800 mm  
Tray height: 800 mm

#### Load capacity:

- 400 N surface load, static

#### Material:

- Sheet steel

#### Colour:

- RAL 7035

#### Supply includes:

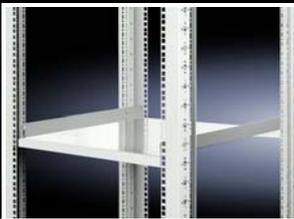
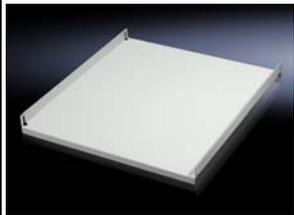
- 2 telescopic slides

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>6902.700</b> |



# Interior installation

## Component shelves for attachment to the 482.6 mm (19") system



### Component shelf, static installation

#### 482.6 mm (19"), depth-variable for VX IT, TE

For static installation between two 482.6 mm (19") mounting levels.

- Contact width: 489 mm
- Depth-variable to adapt to individual distances between levels
- Tool-free, time-saving one-man assembly

**Material:**

- Sheet steel

**Surface finish:**

- Spray-finished

**Colour:**

- RAL 9005

**Supply includes:**

- Assembly parts

| Distance between levels mm | Load capacity, static kg | Height U | Packs of | Model No.       |
|----------------------------|--------------------------|----------|----------|-----------------|
| 400 - 600                  | 50                       | ½        | 1 pc(s). | <b>5501.655</b> |
| 600 - 900                  | 50                       | ½        | 1 pc(s). | <b>5501.665</b> |
| 400 - 600                  | 100                      | 1        | 1 pc(s). | <b>5501.695</b> |
| 600 - 900                  | 100                      | 1        | 1 pc(s). | <b>5501.705</b> |

### Component shelf, static installation

#### for TE

The component shelf is attached directly at the side to the front and rear 482.6 mm (19") mounting frames for TE.

**Material:**

- Sheet steel

**Colour:**

- RAL 7035

**Supply includes:**

- Assembly parts

**Note:**

- Not suitable for combination with telescopic slides

|                                           |                 |
|-------------------------------------------|-----------------|
| Contact surface, width mm                 | 505             |
| Contact surface, depth mm                 | 410             |
| Distance between 482.6 mm (19") levels mm | 495             |
| Load capacity (static) N                  | 300             |
| Packs of                                  | 1 pc(s).        |
| <b>Model No.</b>                          | <b>7000.620</b> |

### Component shelf, pull-out

#### 482.6 mm (19") for VX IT, TE

For mounting between two 482.6 mm (19") mounting levels.

- Contact width: 419 mm
- Depth-variable to adapt to individual distances between levels
- Tool-free, time-saving one-man assembly from the enclosure front
- Self-locking
- Full withdrawal

**Material:**

- Sheet steel

**Surface finish:**

- Component shelf: Spray-finished
- Mounting kit/telescopic slides: Zinc-plated

**Colour:**

- Component shelf: RAL 9005

**Supply includes:**

- Component shelf, slotted
- Telescopic slide with mounting kit
- Assembly parts

| Distance between levels mm | Load capacity, static kg | Height U | Depth mm | Packs of | Model No.       |
|----------------------------|--------------------------|----------|----------|----------|-----------------|
| 400 - 600                  | 50                       | 1        | 500      | 1 pc(s). | <b>5501.675</b> |
| 600 - 900                  | 50                       | 1        | 700      | 1 pc(s). | <b>5501.685</b> |
| 400 - 600                  | 100                      | 1½       | 500      | 1 pc(s). | <b>5501.715</b> |
| 600 - 900                  | 100                      | 1½       | 700      | 1 pc(s). | <b>5501.725</b> |



**Accessories:**

- Handle for component shelf 5501.730, see page 1011

# Interior installation

## Component shelves for attachment to the 482.6 mm (19") system

### Component shelf, pull-out

#### for TE

For mounting between two 482.6 mm (19") mounting levels.

#### Benefits:

- Depth-variable to adjust to the distance between 482.6 mm (19") levels in a 25 mm pitch pattern
- Full withdrawal

#### Material:

- Base: Sheet steel

#### Surface finish:

- Base: Spray-finished
- Mounting kit/telescopic slides: Zinc-plated

#### Colour:

- RAL 7035

#### Supply includes:

- Component shelf, vented
- Telescopic slides with mounting kit

|                                           |                 |
|-------------------------------------------|-----------------|
| Contact surface, width mm                 | 409             |
| Contact surface, depth mm                 | 500             |
| Distance between 482.6 mm (19") levels mm | 395 – 645       |
| Load capacity (static) N                  | 500             |
| Packs of                                  | 1 pc(s).        |
| <b>Model No.</b>                          | <b>7000.625</b> |



### Component shelf 1 U, static installation

482.6 mm (19")

for one 482.6 mm (19") mounting level

The ideal support surface for small active components such as modems or mini-hubs.

#### Load capacity:

- 10 kg surface load, static

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 7035

#### Note:

- Usable height inside the U approx. 35 mm

| Component shelf depth mm | Packs of | Model No.       |
|--------------------------|----------|-----------------|
| 140                      | 1 pc(s). | <b>7119.140</b> |



#### Also required:

- Cage nuts, see page 1002
- Screws, see page 1004



# Interior installation

## Component shelves for attachment to the 482.6 mm (19") system



### Component shelf 2 U, static installation

#### 482.6 mm (19") for one 482.6 mm (19") mounting level

The ideal support surface for small active components such as modems or mini-hubs.

**Load capacity:**  
– 25 kg surface load, static

**Material:**  
– Sheet steel

**Surface finish:**  
– Spray-finished

| Component shelf depth mm | Colour   | Packs of | Model No.       |
|--------------------------|----------|----------|-----------------|
| 250                      | RAL 7035 | 1 pc(s). | <b>7119.250</b> |
|                          | RAL 9005 | 1 pc(s). | <b>5501.615</b> |
| 400                      | RAL 7035 | 1 pc(s). | <b>7119.400</b> |
|                          | RAL 9005 | 1 pc(s). | <b>5501.625</b> |



#### Also required:

- Cage nuts, see page 1002
- Screws, see page 1004

### Component shelf, pull-out, 2 U

#### for one 482.6 mm (19") mounting level

For simple, front installation of wall-mounted or floor-standing enclosures with at least one 482.6 mm (19") mounting level. This complete set comprises the pre-configured variant including telescopic slides, moulded handle, flange and locking pins.

**Benefits:**  
– Simple tool-free assembly  
– Full withdrawal  
– Self-locking

**Material:**  
– Sheet steel

**Surface finish:**  
– Spray-finished

**Colour:**  
– RAL 9005

**Supply includes:**  
– Component shelf, pre-configured  
– Assembly parts

| Contact surface, width mm | Contact surface, depth mm | Load capacity (static) N | Packs of | Model No.       |
|---------------------------|---------------------------|--------------------------|----------|-----------------|
| 430                       | 300                       | 250                      | 1 pc(s). | <b>5501.635</b> |

# Interior installation

## Accessories for component shelves

### Telescopic slide

#### for component shelf for frame attachment

Static component shelves are easily converted to full withdrawal by exchanging the existing assembly bolts or mounting rails (heavy-duty version) for telescopic slides.

#### Technical specifications:

- For installation and locking on a 25 mm pitch pattern in the enclosure depth

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

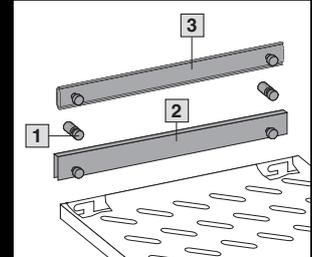
#### Load capacity 50 kg

| For component shelf depth mm | Packs of | Model No.       |
|------------------------------|----------|-----------------|
| 400                          | 2 pc(s). | <b>7061.000</b> |
| 500                          | 2 pc(s). | <b>7081.000</b> |
| 600                          | 2 pc(s). | <b>7161.000</b> |
| 700                          | 2 pc(s). | <b>7161.700</b> |

#### Load capacity 100 kg

| For component shelf depth mm | Packs of | Model No.       |
|------------------------------|----------|-----------------|
| 400                          | 2 pc(s). | <b>7064.000</b> |
| 500                          | 2 pc(s). | <b>7065.000</b> |
| 600                          | 2 pc(s). | <b>7066.000</b> |
| 700                          | 2 pc(s). | <b>7066.700</b> |

- 1** Assembly bolts
- 2** Mounting rails
- 3** Telescopic slides



### Cable support

#### Hinged, with anti-kink device and quick-release fastener

For secure routing of connection cables from the component shelves with telescopic pull-out to the clamping point. Kink-free cable routing in the central part via mobile chain links. The attachment may be released on both sides, thanks to the quick-release fastener.

#### Material:

- Sheet steel, zinc-plated
- Central part: Plastic

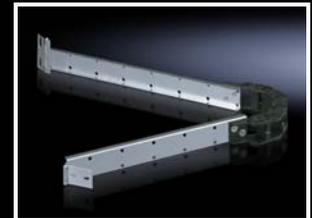
#### Supply includes:

- Cable support
- 2 mounting brackets
- Assembly parts

| For enclosure depth mm | Packs of | Model No.       |
|------------------------|----------|-----------------|
| ≤ 600                  | 1 pc(s). | <b>7163.560</b> |
| > 600                  | 1 pc(s). | <b>7163.565</b> |

#### Note:

- Max. depth of component shelves = Enclosure depth - 200 mm



### Handle

#### for pull-out component shelves

The component shelves are prepared for the attachment of handles.

#### Material:

- Die-cast zinc

#### Surface finish:

- Spray-finished

| Packs of | Model No.       |
|----------|-----------------|
| 2 pc(s). | <b>5501.730</b> |

#### Colour:

- Silver grey

#### Supply includes:

- Assembly parts



### Fastening bolts

#### for slotted component shelves

For non-slip attachment of your components. The bolts are screwed into the longitudinal slots of the component shelf support surface. Consequently, they are infinitely adjustable and can be adapted to suit any appliance.

| Packs of | Model No.       |
|----------|-----------------|
| 4 pc(s). | <b>7115.000</b> |

#### Material:

- Steel

#### Surface finish:

- Clear-chromated



# LED system light – Sensationally bright



## Optimum illumination

- Innovative LED technology for even more light into the very last corner
- Intelligent lighting, tailored to the geometry of the enclosure, thanks to a special optical cover with Fresnel structure
- Optical cover with two different Fresnel structures
- The cover is easily rotated – to adapt the light distribution to the current installation situation
- Enormous luminous intensity up to 1200 lumens, directed selectively into the enclosure

## Simple assembly

- Fast, tool-free assembly thanks to a latching hook system on a 25 mm pitch pattern of holes; simply latch and secure
- Optional screw-fastening also available, or opt for complete flexibility with a magnetic attachment freely positionable inside the enclosure
- May be fitted horizontally and vertically with no loss of space in the enclosure; existing rails and sections can simply be covered
- Lights with motion detectors are equipped with a rotating LED board as standard, allowing the direction of light to be perfectly adapted to any installation situation

## Flexible connection

- Rotating connectors support installation in the most confined spaces
- Simple through-wiring based on the plug & play system
- Variants with integral motion detectors eliminate the need for installing separate door-operated switches
- If additionally equipped with a socket, electricity will be available whenever it is needed for maintenance work
- Suitable for immediate, global use with wide-range voltage 100 – 240 V (AC) and 24 V (DC)

## New – socket box as a plug-in system

- The alternative to the LED system light with integrated socket
- Easier planning for international projects – same light, but with a country-specific socket
- No additional wiring required, thanks to simple connection technology and integration of the LED system light into the circuit
- Socket modules can be easily replaced to suit the user market via plug and play



# LED system light



**Baying enclosure system VX25** Page 116 **Free-standing enclosure system VX SE** Page 142 **Compact enclosures AX** Page 84

## Benefits:

- Optimum illumination of the entire enclosure
- Optionally with clip, screw or magnetic attachment
- Equipment to suit every application

## Material:

- Plastic
- Aluminium

## Colour:

- Enclosure: RAL 7016

## Protection class:

- II (all-insulated)

## Light colour:

- 4000 K (neutral white)

## Supply includes:

- Assembly screws

## Note:

- Connection accessories should be ordered separately

| Model No.                      | 2500.300                                    | 2500.310             | 2500.311                | 2500.312                | 2500.313                | Page                    |
|--------------------------------|---------------------------------------------|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Output (lumens)                | 1200                                        | 1200                 | 1200                    | 1200                    | 1200                    |                         |
| Length (mm)                    | 437                                         | 437                  | 437                     | 437                     | 437                     |                         |
| Motion sensor                  | ■                                           | ■                    | ■                       | ■                       | ■                       |                         |
| Rated operating voltage        | 100 – 240 V AC                              | ■                    | ■                       | ■                       | ■                       |                         |
|                                | 24 V DC                                     | –                    | –                       | –                       | –                       |                         |
| Equipment                      | Socket                                      | –                    | D, earthing-pin         | GB                      | F/B                     | CH                      |
|                                | 90° rotating connector                      | ■                    | ■                       | ■                       | ■                       | ■                       |
|                                | Adjustable light direction                  | ■                    | ■                       | ■                       | ■                       | ■                       |
|                                | Adjustable light distribution               | ■                    | ■                       | ■                       | ■                       | ■                       |
| Approvals                      | UL/cUL                                      | ■                    | –                       | –                       | –                       | –                       |
|                                | CSA                                         | ■                    | –                       | –                       | –                       | –                       |
|                                | CCC                                         | ■                    | –                       | –                       | –                       | –                       |
|                                | ENEC                                        | ■                    | ■                       | ■                       | ■                       | ■                       |
| Installation type              | Screw-fastening                             | ■                    | ■                       | ■                       | ■                       | ■                       |
|                                | Clip attachment                             | ■                    | ■                       | ■                       | ■                       | ■                       |
|                                | Magnetic attachment to surfaces (accessory) | ■                    | –                       | –                       | –                       | –                       |
| Connection options             | Infeed                                      | 3-pole               | 3-pole                  | 3-pole                  | 3-pole                  | 3-pole                  |
|                                | Through-wiring                              | 3-pole               | 3-pole                  | 3-pole                  | 3-pole                  | 3-pole                  |
|                                | Door-operated switch (accessory)            | –                    | –                       | –                       | –                       | –                       |
| Mounting options <sup>1)</sup> | Enclosures with a 25 mm pitch pattern       | Screw fastening/clip | Directly on the profile |

## Accessories

|                                   |          |          |          |          |          |      |
|-----------------------------------|----------|----------|----------|----------|----------|------|
| Rail for interior installation AX | see page | 989  |
| Mounting bracket                  | 6205.100 | 6205.100 | 6205.100 | 6205.100 | 6205.100 | 1000 |
| Mounting kit magnet               | 2500.490 | –        | –        | –        | –        | 1024 |
| Door-operated switch              | –        | –        | –        | –        | –        |      |
| Door-operated switch, UL          | –        | –        | –        | –        | –        |      |

## Connection accessories

|                            |          |          |          |          |          |      |
|----------------------------|----------|----------|----------|----------|----------|------|
| Infeed, 2-pole             | –        | –        | –        | –        | –        |      |
| Infeed, 2-pole, UL         | –        | –        | –        | –        | –        |      |
| Infeed, 3-pole             | 2500.400 | 2500.400 | 2500.400 | 2500.400 | 2500.400 | 1023 |
| Infeed, 3-pole, UL         | 2500.500 | –        | –        | –        | –        | 1023 |
| Through-wiring, 2-pole     | –        | –        | –        | –        | –        |      |
| Through-wiring, 2-pole, UL | –        | –        | –        | –        | –        |      |
| Through-wiring, 3-pole     | 2500.430 | 2500.430 | 2500.430 | 2500.430 | 2500.430 | 1023 |
| Through-wiring, 3-pole, UL | 2500.530 | –        | –        | –        | –        | 1023 |

<sup>1)</sup> The internal mounting rail AX and the mounting bracket are required when installing in compact enclosures AX

# LED system light

|                                |  |  |  |  |  |                         |
|--------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------|
| Model No.                      | 2500.314                                                                          | 2500.320                                                                          | 2500.200                                                                           | 2500.210                                                                            | 2500.211                                                                            | Page                    |
| Output (lumens)                | 1200                                                                              | 1200                                                                              | 900                                                                                | 900                                                                                 | 900                                                                                 |                         |
| Length (mm)                    | 437                                                                               | 437                                                                               | 437                                                                                | 437                                                                                 | 437                                                                                 |                         |
| Motion sensor                  | ■                                                                                 | ■                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   |                         |
| Rated operating voltage        | 100 – 240 V AC                                                                    | 100 – 125 V AC                                                                    | -                                                                                  | ■                                                                                   | ■                                                                                   |                         |
|                                | 24 V DC                                                                           | -                                                                                 | ■                                                                                  | -                                                                                   | -                                                                                   |                         |
| Equipment                      | Socket                                                                            | USA / CDN                                                                         | -                                                                                  | -                                                                                   | D, earthing-pin                                                                     | GB                      |
|                                | 90° rotating connector                                                            | ■                                                                                 | ■                                                                                  | ■                                                                                   | ■                                                                                   | ■                       |
|                                | Adjustable light direction                                                        | ■                                                                                 | ■                                                                                  | -                                                                                   | -                                                                                   | -                       |
|                                | Adjustable light distribution                                                     | ■                                                                                 | ■                                                                                  | ■                                                                                   | ■                                                                                   | ■                       |
| Approvals                      | UL/cUL                                                                            | ■                                                                                 | ■                                                                                  | ■                                                                                   | -                                                                                   | -                       |
|                                | CSA                                                                               | ■                                                                                 | -                                                                                  | ■                                                                                   | -                                                                                   | -                       |
|                                | CCC                                                                               | -                                                                                 | ■                                                                                  | ■                                                                                   | -                                                                                   | -                       |
|                                | ENEC                                                                              | ■                                                                                 | -                                                                                  | ■                                                                                   | ■                                                                                   | ■                       |
| Installation type              | Screw-fastening                                                                   | ■                                                                                 | ■                                                                                  | ■                                                                                   | ■                                                                                   | ■                       |
|                                | Clip attachment                                                                   | ■                                                                                 | ■                                                                                  | ■                                                                                   | ■                                                                                   | ■                       |
|                                | Magnetic attachment to surfaces (accessory)                                       | -                                                                                 | ■                                                                                  | ■                                                                                   | -                                                                                   | -                       |
| Connection options             | Infeed                                                                            | 3-pole                                                                            | 2-pole                                                                             | 3-pole                                                                              | 3-pole                                                                              | 3-pole                  |
|                                | Through-wiring                                                                    | 3-pole                                                                            | 2-pole                                                                             | 3-pole                                                                              | 3-pole                                                                              | 3-pole                  |
|                                | Door-operated switch (accessory)                                                  | -                                                                                 | -                                                                                  | ■                                                                                   | ■                                                                                   | ■                       |
| Mounting options <sup>1)</sup> | Enclosures with a 25 mm pitch pattern                                             |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                         |
|                                | Screw fastening/clip                                                              | Directly on the profile                                                           | Directly on the profile                                                            | Directly on the profile                                                             | Directly on the profile                                                             | Directly on the profile |

## Accessories

|                                   |          |          |          |          |          |      |
|-----------------------------------|----------|----------|----------|----------|----------|------|
| Rail for interior installation AX | see page | 989  |
| Mounting bracket                  | 6205.100 | 6205.100 | 6205.100 | 6205.100 | 6205.100 | 1000 |
| Mounting kit magnet               | -        | 2500.490 | 2500.490 | -        | -        | 1024 |
| Door-operated switch              | -        | -        | 2500.460 | 2500.460 | 2500.460 | 1024 |
| Door-operated switch, UL          | -        | -        | 2500.470 | -        | -        | 1024 |

## Connection accessories

|                            |          |          |          |          |          |      |
|----------------------------|----------|----------|----------|----------|----------|------|
| Infeed, 2-pole             | -        | -        | -        | -        | -        |      |
| Infeed, 2-pole, UL         | -        | 2500.410 | -        | -        | -        | 1023 |
| Infeed, 3-pole             | -        | -        | 2500.400 | 2500.400 | 2500.400 | 1023 |
| Infeed, 3-pole, UL         | 2500.500 | -        | 2500.500 | -        | -        | 1023 |
| Through-wiring, 2-pole     | -        | -        | -        | -        | -        |      |
| Through-wiring, 2-pole, UL | -        | 2500.440 | -        | -        | -        | 1023 |
| Through-wiring, 3-pole     | -        | -        | 2500.430 | 2500.430 | 2500.430 | 1023 |
| Through-wiring, 3-pole, UL | 2500.530 | -        | 2500.530 | -        | -        | 1023 |

<sup>1)</sup> The internal mounting rail AX and the mounting bracket are required when installing in compact enclosures AX

Rittal – The System.



## Connection accessories

see page 1023

System accessories

# LED system light

|                                |  |  |  |  |                         |
|--------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------|
| Model No.                      | 2500.212                                                                          | 2500.213                                                                           | 2500.214                                                                            | 2500.220                                                                            | Page                    |
| Output (lumens)                | 900                                                                               | 900                                                                                | 900                                                                                 | 900                                                                                 |                         |
| Length (mm)                    | 437                                                                               | 437                                                                                | 437                                                                                 | 437                                                                                 |                         |
| Motion sensor                  | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   |                         |
| Rated operating voltage        | 100 – 240 V AC                                                                    | ■                                                                                  | ■                                                                                   | 100 – 125 V AC                                                                      | -                       |
|                                | 24 V DC                                                                           | -                                                                                  | -                                                                                   | -                                                                                   | ■                       |
| Equipment                      | Socket                                                                            | F/B                                                                                | CH                                                                                  | USA / CDN                                                                           | -                       |
|                                | 90° rotating connector                                                            | ■                                                                                  | ■                                                                                   | ■                                                                                   | ■                       |
|                                | Adjustable light direction                                                        | -                                                                                  | -                                                                                   | -                                                                                   | -                       |
|                                | Adjustable light distribution                                                     | ■                                                                                  | ■                                                                                   | ■                                                                                   | ■                       |
| Approvals                      | UL/cUL                                                                            | -                                                                                  | -                                                                                   | ■                                                                                   | ■                       |
|                                | CSA                                                                               | -                                                                                  | -                                                                                   | ■                                                                                   | ■                       |
|                                | CCC                                                                               | -                                                                                  | -                                                                                   | -                                                                                   | ■                       |
|                                | ENEC                                                                              | ■                                                                                  | ■                                                                                   | ■                                                                                   | ■                       |
| Installation type              | Screw-fastening                                                                   | ■                                                                                  | ■                                                                                   | ■                                                                                   | ■                       |
|                                | Clip attachment                                                                   | ■                                                                                  | ■                                                                                   | ■                                                                                   | ■                       |
|                                | Magnetic attachment to surfaces (accessory)                                       | -                                                                                  | -                                                                                   | -                                                                                   | ■                       |
| Connection options             | Infeed                                                                            | 3-pole                                                                             | 3-pole                                                                              | 3-pole                                                                              | 2-pole                  |
|                                | Through-wiring                                                                    | 3-pole                                                                             | 3-pole                                                                              | 3-pole                                                                              | 2-pole                  |
|                                | Door-operated switch (accessory)                                                  | ■                                                                                  | ■                                                                                   | ■                                                                                   | ■                       |
| Mounting options <sup>1)</sup> | Enclosures with a 25 mm pitch pattern                                             |                                                                                    |                                                                                     |                                                                                     |                         |
|                                | Screw fastening/clip                                                              | Directly on the profile                                                            | Directly on the profile                                                             | Directly on the profile                                                             | Directly on the profile |

## Accessories

|                                   |          |          |          |          |      |
|-----------------------------------|----------|----------|----------|----------|------|
| Rail for interior installation AX | see page | see page | see page | see page | 989  |
| Mounting bracket                  | 6205.100 | 6205.100 | 6205.100 | 6205.100 | 1000 |
| Mounting kit magnet               | -        | -        | -        | 2500.490 | 1024 |
| Door-operated switch              | 2500.460 | 2500.460 | 2500.460 | 2500.460 | 1024 |
| Door-operated switch, UL          | -        | -        | 2500.470 | 2500.470 | 1024 |

## Connection accessories

|                            |          |          |          |          |      |
|----------------------------|----------|----------|----------|----------|------|
| Infeed, 2-pole             | -        | -        | -        | -        |      |
| Infeed, 2-pole, UL         | -        | -        | -        | 2500.410 | 1023 |
| Infeed, 3-pole             | 2500.400 | 2500.400 | -        | -        | 1023 |
| Infeed, 3-pole, UL         | -        | -        | 2500.500 | -        | 1023 |
| Through-wiring, 2-pole     | -        | -        | -        | -        |      |
| Through-wiring, 2-pole, UL | -        | -        | -        | 2500.440 | 1023 |
| Through-wiring, 3-pole     | 2500.430 | 2500.430 | -        | -        | 1023 |
| Through-wiring, 3-pole, UL | -        | -        | 2500.530 | -        | 1023 |

<sup>1)</sup> The internal mounting rail AX and the mounting bracket are required when installing in compact enclosures AX

Rittal – The System.



## Socket box

see page 1022

# LED system light

|                                |  |  |  |  |                         |
|--------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------|
| Model No.                      | 2500.100                                                                          | 2500.104                                                                           | 2500.110                                                                            | 2500.114                                                                            | Page                    |
| Output (lumens)                | 400                                                                               | 400                                                                                | 600                                                                                 | 600                                                                                 |                         |
| Length (mm)                    | 262                                                                               | 262                                                                                | 337                                                                                 | 337                                                                                 |                         |
| Motion sensor                  | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   |                         |
| Rated operating voltage        | 100 – 240 V AC                                                                    | ■                                                                                  | ■                                                                                   | ■                                                                                   |                         |
|                                | 24 V DC                                                                           | -                                                                                  | -                                                                                   | -                                                                                   |                         |
| Equipment                      | Socket                                                                            | -                                                                                  | -                                                                                   | -                                                                                   |                         |
|                                | 90° rotating connector                                                            | -                                                                                  | -                                                                                   | -                                                                                   |                         |
|                                | Adjustable light direction                                                        | -                                                                                  | -                                                                                   | -                                                                                   |                         |
|                                | Adjustable light distribution                                                     | -                                                                                  | -                                                                                   | -                                                                                   |                         |
| Approvals                      | UL/cUL                                                                            | -                                                                                  | ■                                                                                   | -                                                                                   | ■                       |
|                                | CSA                                                                               | -                                                                                  | ■                                                                                   | -                                                                                   | ■                       |
|                                | CCC                                                                               | ■                                                                                  | ■                                                                                   | ■                                                                                   | ■                       |
|                                | ENEC                                                                              | ■                                                                                  | ■                                                                                   | ■                                                                                   | ■                       |
| Installation type              | Screw-fastening                                                                   | ■                                                                                  | ■                                                                                   | ■                                                                                   | ■                       |
|                                | Clip attachment                                                                   | ■                                                                                  | ■                                                                                   | ■                                                                                   | ■                       |
|                                | Magnetic attachment to surfaces (accessory)                                       | ■                                                                                  | ■                                                                                   | ■                                                                                   | ■                       |
| Connection options             | Infeed                                                                            | 2-pole                                                                             | 2-pole                                                                              | 2-pole                                                                              | 2-pole                  |
|                                | Through-wiring                                                                    | 2-pole                                                                             | 2-pole                                                                              | 2-pole                                                                              | 2-pole                  |
|                                | Door-operated switch (accessory)                                                  | ■                                                                                  | ■                                                                                   | ■                                                                                   | ■                       |
| Mounting options <sup>1)</sup> | Enclosures with a 25 mm pitch pattern                                             |                                                                                    | Directly on the profile                                                             | Directly on the profile                                                             | Directly on the profile |
|                                | Screw fastening/clip                                                              |                                                                                    | Directly on the profile                                                             | Directly on the profile                                                             | Directly on the profile |

## Accessories

|                                   |          |          |          |          |      |
|-----------------------------------|----------|----------|----------|----------|------|
| Rail for interior installation AX | see page | see page | see page | see page | 989  |
| Mounting bracket                  | 6205.100 | 6205.100 | 6205.100 | 6205.100 | 1000 |
| Mounting kit magnet               | 2500.490 | 2500.490 | 2500.490 | 2500.490 | 1024 |
| Door-operated switch              | 2500.460 | -        | 2500.460 | -        | 1024 |
| Door-operated switch, UL          | -        | 2500.470 | -        | 2500.470 | 1024 |

## Connection accessories

|                            |          |          |          |          |      |
|----------------------------|----------|----------|----------|----------|------|
| Infeed, 2-pole             | 2500.420 | -        | 2500.420 | -        | 1023 |
| Infeed, 2-pole, UL         | -        | 2500.520 | -        | 2500.520 | 1023 |
| Infeed, 3-pole             | -        | -        | -        | -        |      |
| Infeed, 3-pole, UL         | -        | -        | -        | -        |      |
| Through-wiring, 2-pole     | 2500.450 | -        | 2500.450 | -        | 1023 |
| Through-wiring, 2-pole, UL | -        | 2500.550 | -        | 2500.550 | 1023 |
| Through-wiring, 3-pole     | -        | -        | -        | -        |      |
| Through-wiring, 3-pole, UL | -        | -        | -        | -        |      |

<sup>1)</sup> The internal mounting rail AX and the mounting bracket are required when installing in compact enclosures AX

Rittal – The System.



## IT LED system light

see page 1027

System accessories

# Socket box – The plug-in system



## A global player

- Socket modules in all standard, country-specific variants
- UL variant for the North American market
- Socket modules can be easily replaced to suit the user market via plug and play



## Simple assembly

- Easy to screw securely to the round holes in the enclosure profile
- No loss of space thanks to perfect integration into the profile
- No obstruction when installing and removing the mounting plate
- Supports flexible installation throughout the entire enclosure and on the tubular door frame



## Fast connection

- Connection ready to plug in without any wiring work
- Direct integration of the LED system light into the circuit
- Same connection accessories as for LED system light
- Multiple socket boxes can be cascaded with numerous LED system lights



# Interior installation

## LED system light



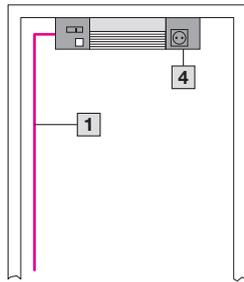
### The optimum system solution for improved flexibility

The socket box turns the LED system light into an all-in-one system, making it possible to easily install additional sockets in six country-specific variants anywhere in the enclosure.

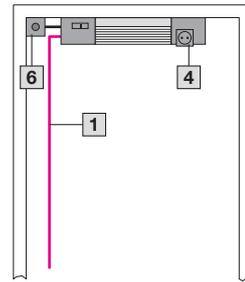
A key advantage of this solution is that the appropriate socket for the end user's particular country can be easily installed via plug and play when the system is delivered. There is no need to replace the LED system light with one that has a suitable socket. All components are ready to plug in and can be installed without manual wiring.

### Configuration examples

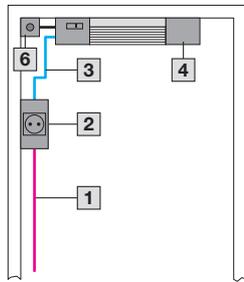
**Free-standing enclosure**  
LED system light with socket and motion detector



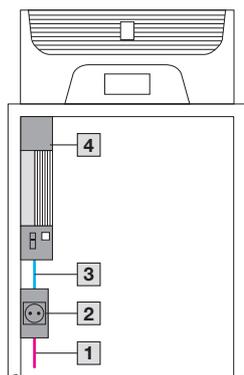
**Free-standing enclosure**  
LED system light with socket and additional door-operated switch



**Free-standing enclosure**  
LED system light without socket or motion sensor, but with additional door-operated switch and additional socket box



**Free-standing enclosure**  
LED system light fastened to the side with motion detector and additional socket box

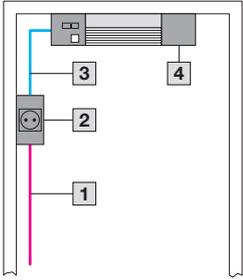


# Interior installation

## LED system light

### Free-standing enclosure

LED system light with motion detector and additional socket box



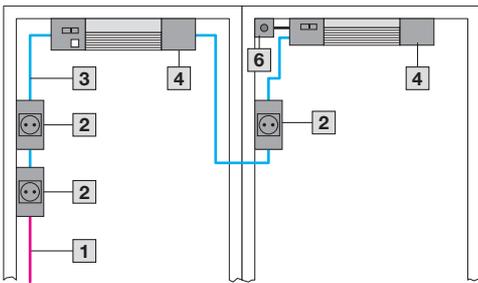
### Bayed enclosure with through-wiring via socket box

Enclosure 1:

LED system light with motion detector and additional socket boxes

Enclosure 2:

LED system light without socket or motion detector, but with additional door-operated switch and additional socket box



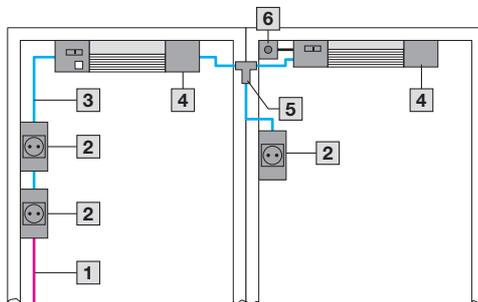
### Bayed enclosure with through-wiring via T distributor

Enclosure 1:

LED system light with motion detector and additional socket boxes

Enclosure 2:

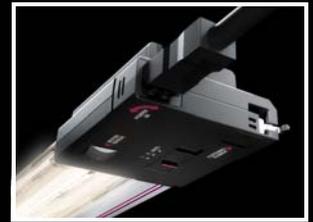
LED system light without socket or motion detector, but with additional door-operated switch and additional socket box



- 1 Infeed
- 2 Socket box
- 3 Through-wiring
- 4 LED system light (various types)
- 5 T distributor
- 3 Door-operated switch with connection cable

### Completely UL-compliant construction

The entire system can be constructed in full compliance with UL requirements if UL-approved components (infeed, LED system light, through-wiring and socket box) are used.



# Interior installation

## LED system light



### Socket box

#### for LED system light

In combination with the LED system light, the socket box creates a flexible modular system for international use.

#### Benefits:

- Identical connection accessories as for LED system light
- Cascadable with LED system light
- Supports flexible installation throughout the entire enclosure and on the tubular door frame
- No additional wiring required, thanks to simple connection technology and integration of the LED system light into the circuit

#### Material:

- Plastic

#### Colour:

- RAL 7016

#### Supply includes:

- Assembly parts

#### Configuration examples:

See from page 1020.

- 1 Infeed
- 2 Socket box
- 3 Through-wiring
- 4 LED system light
- 5 T distributor

| Socket                                                                             | UL              | Packs of | Model No.                |
|------------------------------------------------------------------------------------|-----------------|----------|--------------------------|
|  | D, earthing-pin | -        | 1 pc(s). <b>2500.710</b> |
|  | GB              | -        | 1 pc(s). <b>2500.711</b> |
|  | F/B             | -        | 1 pc(s). <b>2500.712</b> |
|  | CH              | -        | 1 pc(s). <b>2500.713</b> |
|  | US              | ■        | 1 pc(s). <b>2500.714</b> |
|  | CN              | -        | 1 pc(s). <b>2500.715</b> |



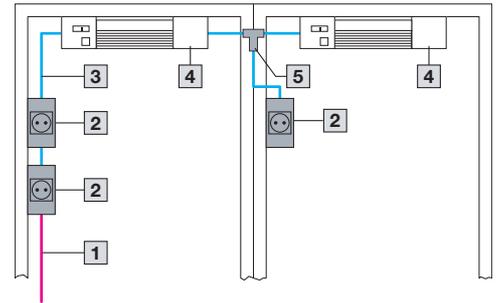
#### Also required:

- Depending on the application, through-wiring or a 3-pole infeed may be required, see page 1023



#### Accessories:

- T distributor, see page 1023
- Through-wiring, 3-pole, see page 1023
- Infeed, 3-pole, see page 1023



# Interior installation

## LED system light

### Connection accessories

#### for LED system light

The following components can be used for time-saving, easy installation of the lights:

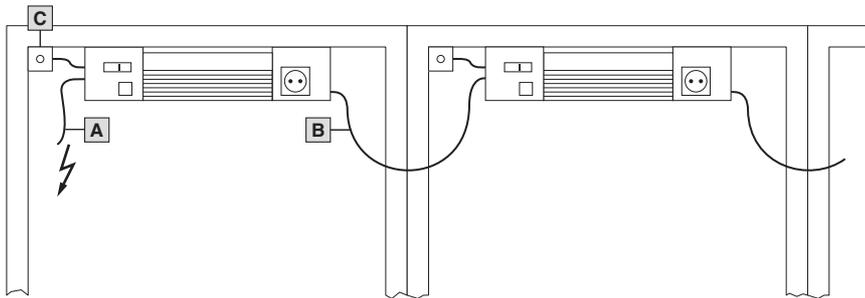


#### Accessories:

- Cable ties for quick assembly, see page 1061

| Connection cable for                     | ENEC | UL | Length mm | Packs of | Model No. |          |
|------------------------------------------|------|----|-----------|----------|-----------|----------|
|                                          |      |    |           |          | orange    | black    |
| 1 Infeed, 3-pole, 100 – 240 V AC         | ■    | ■  | 3000      | 1 pc(s). | 2500.500  | -        |
|                                          | ■    | -  | 3000      | 5 pc(s). | 2500.400  | -        |
| 2 Infeed, 2-pole, 100 – 240 V AC         | -    | ■  | 3000      | 1 pc(s). | 2500.520  | -        |
|                                          | ■    | -  | 3000      | 5 pc(s). | 2500.420  | -        |
| 3 Infeed, 2-pole, 24 V DC                | ■    | ■  | 3000      | 5 pc(s). | -         | 2500.410 |
| 4 Through-wiring, 3-pole, 100 – 240 V AC | ■    | -  | 200       | 1 pc(s). | 2500.435  | -        |
|                                          | ■    | ■  | 1000      | 1 pc(s). | 2500.530  | -        |
| 5 Through-wiring, 3-pole, 100 – 240 V AC | ■    | -  | 1000      | 5 pc(s). | 2500.430  | -        |
|                                          | -    | ■  | 3000      | 1 pc(s). | 2500.550  | -        |
| 6 Through-wiring, 2-pole, 100 – 240 V AC | ■    | -  | 1000      | 5 pc(s). | 2500.450  | -        |
|                                          | ■    | ■  | 1000      | 5 pc(s). | -         | 2500.440 |

- A** Connection cable for infeed
- B** Connection cable for through-wiring
- C** Door-operated switch with connection cable (not required for LED system light with integral motion sensor)



### T distributor

#### with two sockets and one connector

For creating safe, shock-hazard-protected junctions when wiring LED system lights and socket boxes.

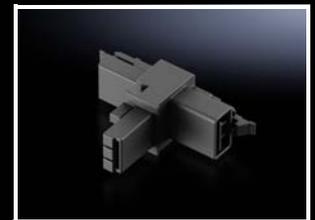
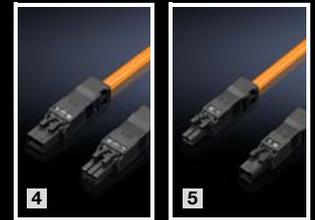
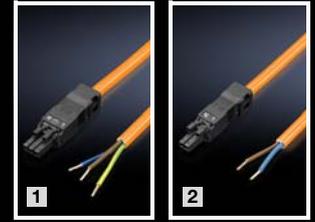
| Packs of | Model No. |
|----------|-----------|
| 5 pc(s). | 2500.680  |

### Connection accessories for self-assembly

#### for LED system light

For individual wiring with commercially available cables.

| Connector/jack    | Type        | Input voltage | UL       | Packs of | Model No. |
|-------------------|-------------|---------------|----------|----------|-----------|
| Jack, 3-pole      | 100 – 240 V | ■             | 5 pc(s). | 2500.600 |           |
| Jack, 2-pole      | 24 V DC     | ■             | 5 pc(s). | 2500.610 |           |
| Jack, 2-pole      | 100 – 240 V | ■             | 5 pc(s). | 2500.620 |           |
| Connector, 3-pole | 100 – 240 V | ■             | 5 pc(s). | 2500.630 |           |
| Connector, 2-pole | 24 V DC     | ■             | 5 pc(s). | 2500.640 |           |
| Connector, 2-pole | 100 – 240 V | ■             | 5 pc(s). | 2500.650 |           |



# Interior installation

## LED system light



### Door-operated switch

with connection cable for LED system light

Supply includes:

- Assembly parts

|                  | ENEC | UL | Length mm | To fit                | Packs of | Model No.       |
|------------------|------|----|-----------|-----------------------|----------|-----------------|
|                  |      |    |           |                       |          | Black           |
| Connection cable | ■    | -  | 800       | 230 V AC/24 V DC, 1 A | 1 pc(s). | <b>2500.460</b> |
|                  | -    | ■  | 800       |                       | 1 pc(s). | <b>2500.470</b> |



### Door-operated switch

without connection cable for self-assembly

- With normally closed contact and normally open contact
- Custom wiring of the LED system light when combined with the connection cable for door-operated switch
- Can be used to control the various Rittal climate control solutions when combined with standard cables

| Technical specifications                                 | UL | Packs of | Model No.       |
|----------------------------------------------------------|----|----------|-----------------|
| 240 V, 6 A<br>125 V DC, 8 A<br>24 V, 6 A<br>24 V DC, 6 A | ■  | 1 pc(s). | <b>4127.010</b> |



**Also required:**

- For the installation in TE: Mounting kit **7888.615**

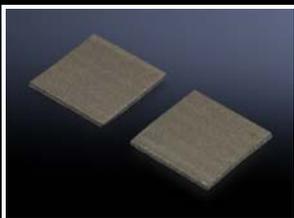


### Connection cable

for door-operated switch for LED system light

Connection cable with pre-assembled connector for simple, fast connection of the LED system light. With open end for cutting the connection cable to the required individual length.

| Length mm | UL | Packs of | Model No.       |
|-----------|----|----------|-----------------|
| 3000      | -  | 1 pc(s). | <b>2500.660</b> |
| 3000      | ■  | 1 pc(s). | <b>2500.670</b> |



### Mounting kit magnet

for LED system light

For sticking onto the rear of lights without a socket.

| Packs of | Model No.       |
|----------|-----------------|
| 2 pc(s). | <b>2500.490</b> |

# Interior installation

## LED compact system light

### LED compact system light in 24 V (DC) version

- Max. EMC compatibility
- Protected, as it operates within the safety extra-low voltage range
- Door operated switch connection supported
- Integral through-wiring
- Vertically hinged light cone

#### Material:

- Light body: Extruded aluminium
- Light cover: Polycarbonate (halogen-free)
- Light ends: PC-ABS

#### Colour:

- Similar to RAL 7035

#### Protection category IP to IEC 60 529:

- IP 20

#### Supply includes:

- LED compact system light with clip and screw mounting kits, assembly parts

| Model No.                                   | 4140.810                                  | 4140.820 | 4140.830 | 4140.840 |
|---------------------------------------------|-------------------------------------------|----------|----------|----------|
| Rated voltage                               | <b>24 V (DC) (±10%)</b>                   |          |          |          |
| Number of LEDs                              | 10                                        | 20       | 30       | 40       |
| Degree of protection                        | <b>III (SELV)</b>                         |          |          |          |
| Width (B1) mm                               | 230                                       | 330      | 430      | 530      |
| Mounting distance CLIP (B2) mm              | 175                                       | 275      | 375      | 475      |
| Mounting distance, screw attachment (B3) mm | 250                                       | 350      | 450      | 550      |
| Rated current A <sup>1)</sup>               | 0.04                                      | 0.08     | 0.12     | 0.16     |
| Switch                                      | Integral on/off/door-operated switch mode |          |          |          |

<sup>1)</sup> Maximum buying up to a total rated current strength of 2 amps

#### ! Also required:

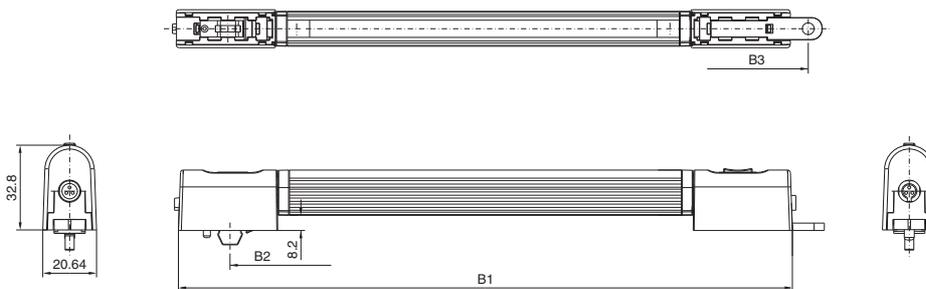
- LED connection cable, see page 1026 or
- Door-operated switch with LED connection cable, see page 1026

#### + Accessories:

- Mounting kit magnet for LED compact system light, see page 1025
- Door-operated switch with LED connection cable, see page 1026
- LED connection cable, see page 1026
- Adaptor power pack, see page 1026

#### Note:

- Only intended for use in enclosures and sealed cases!
- When using on customer-supplied power packs, it is important to obtain the requisite approvals depending on the application.



### Mounting kit magnet

#### for LED compact system light

For reliable adhesion on all sheet steel surfaces.

| Packs of | Model No.       |
|----------|-----------------|
| 2 pc(s). | <b>4140.000</b> |



# Interior installation

## LED compact system light

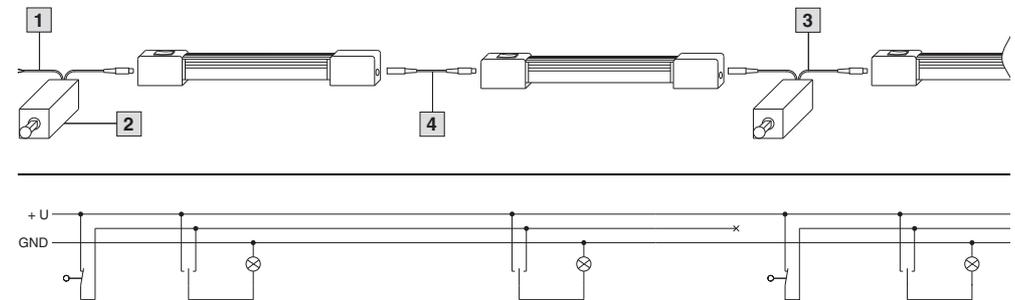


### Connection accessories for LED compact system light

|                       | Connection cable               | Length<br>mm                                           | Packs of             | Model No.             |
|-----------------------|--------------------------------|--------------------------------------------------------|----------------------|-----------------------|
| 1                     | LED connection cable           | 3000                                                   | 1 pc(s).             | 4315.800              |
| Door-operated switch  |                                |                                                        |                      |                       |
| 2                     | With LED connection cable      | 3000                                                   | 1 pc(s).             | 4315.810              |
| 3                     | With LED interconnecting cable | 1000                                                   | 1 pc(s).             | 4315.820              |
| Interconnecting cable |                                |                                                        |                      |                       |
| 4                     | LED interconnecting cable      | 600                                                    | 1 pc(s).             | 4315.830              |
|                       |                                | 1000                                                   | 1 pc(s).             | 4315.840              |
|                       |                                | 3000                                                   | 1 pc(s).             | 4315.850              |
| Adaptor power pack    |                                |                                                        |                      |                       |
| 5                     | Adaptor power pack             | Technical specifications<br>100 – 230 V/24 V (DC), 1 A | Packs of<br>1 pc(s). | Model No.<br>4315.860 |

### Layout diagram for LED compact system light 24 V (DC):

- 1 Connection cable
- 2 Door-operated switch with LED connection cable (open end/cable bush)
- 3 Door-operated switch with LED interconnecting cable
- 4 LED interconnecting cable for through-wiring



# IT LED system light



Network/server racks VX IT Page 686 Network racks TE 8000 Page 704 Wall-mounted enclosures AX/EL from page 715

### Benefits:

- Plug and play compatibility system
- Optimum illumination of the entire IT rack
- Optionally with clip, screw or magnetic attachment
- Equipment to suit every application
- Ready to use immediately, thanks to plug-in connection cable
- Attachment with no loss of U in the rack

### Type:

- All-insulated, with internal fuse (T 2A) for operation with Europlug (to CEE 7/16) and IEC 320 connector

### Material:

- Plastic
- Aluminium

### Colour:

- Enclosure: RAL 7016

### Protection class:

- II (all-insulated)

### Light colour:

- 4000 K (neutral white)

### Supply includes:

- Mounting kit magnet
- Assembly screws

### Note:

- Connection accessories should be ordered separately
- The two plug-in connection cables should only be used with the IT LED system light. Use with all other Rittal system lights or external products is inadmissible.
- Cascading of multiple IT LED system lights is not possible

| Model No.                                    |                                                                                                                                                                     |                      |  |      |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------|------|
|                                              |                                                                                                                                                                     |                      | <b>7859.000</b>                                                                       | Page |
| Output (lumens)                              |                                                                                                                                                                     |                      | 600                                                                                   |      |
| Length (mm)                                  |                                                                                                                                                                     |                      | 337                                                                                   |      |
| Motion sensor                                |                                                                                                                                                                     |                      | -                                                                                     |      |
| Rated operating voltage                      | 100 – 240 V AC, 50/60 Hz                                                                                                                                            |                      | ■                                                                                     |      |
| Equipment                                    | Socket                                                                                                                                                              |                      | -                                                                                     |      |
|                                              | 90° rotating connector                                                                                                                                              |                      | ■                                                                                     |      |
|                                              | Adjustable light direction                                                                                                                                          |                      | ■                                                                                     |      |
|                                              | Adjustable light distribution                                                                                                                                       |                      | ■                                                                                     |      |
| Approvals                                    | UL/cUL                                                                                                                                                              |                      | ■                                                                                     |      |
|                                              | CSA                                                                                                                                                                 |                      | ■                                                                                     |      |
|                                              | CCC                                                                                                                                                                 |                      | ■                                                                                     |      |
| Installation type                            | Screw-fastening                                                                                                                                                     |                      | ■                                                                                     |      |
|                                              | Clip attachment                                                                                                                                                     |                      | ■                                                                                     |      |
|                                              | Magnetic attachment to surfaces                                                                                                                                     |                      | ■                                                                                     |      |
| Connection options                           | Infeed                                                                                                                                                              |                      | 2-pole                                                                                |      |
|                                              | Door-operated switch (accessory)                                                                                                                                    |                      | ■                                                                                     |      |
| Installation options                         | Enclosures with a 25 mm pitch pattern                                                                                                                               | Screw fastening/clip | Directly on the profile                                                               |      |
|                                              | TE 8000, IT enclosure based on AX/EL                                                                                                                                | Mounting kit magnet  | ■                                                                                     |      |
| <b>Accessories</b>                           |                                                                                                                                                                     |                      |                                                                                       |      |
| Door-operated switch                         |                                                                                                                                                                     |                      | 2500.460                                                                              | 1024 |
| Door-operated switch, UL                     |                                                                                                                                                                     |                      | 2500.470                                                                              | 1024 |
| <b>Also required: Connection accessories</b> |                                                                                                                                                                     |                      |                                                                                       |      |
| 1                                            | Connection cable with Europlug EN 50075, CEE 7/16, type: H05VV-F, 2 x 0.75 mm <sup>2</sup> , ready for connection, black, length 2 m, packs of 1                    |                      | <b>7859.010</b>                                                                       |      |
| 2                                            | Connection cable with IEC 60 320 C18 connector, UL version, to fit IEC 60 320 C13 sockets type: SJT 2 x 18 60D, ready for connection, black, length 2 m, packs of 1 |                      | <b>7859.020</b>                                                                       |      |



**Connection cable with Europlug EN 50075**



**Connection cable with IEC 60 320 C18 connector**

# Interior installation

## EMC



### EMC side panel

**for VX**

Automatic potential equalisation via assembly components, and a high level of EMC protection thanks to a special EMC seal.

**Material:**

- Sheet steel, 1.5 mm

**Surface finish:**

- Magnesium zinc coated, powder-coated on the outside

**Colour:**

- RAL 7035

**Protection category IP to IEC 60 529:**

- IP 55

**Supply includes:**

- Assembly parts

| For enclosures |          | Packs of | Model No.       |
|----------------|----------|----------|-----------------|
| Height mm      | Depth mm |          |                 |
| 2000           | 600      | 2 pc(s). | <b>8106.760</b> |
| 2000           | 800      | 2 pc(s). | <b>8108.760</b> |



### EMC shielding seal

**for VX**

For EMC-compliant shielding of the baying point in conjunction with external baying connector.

**Protection category IP to IEC 60 529:**

- IP 55 in conjunction with external baying connector

**Supply includes:**

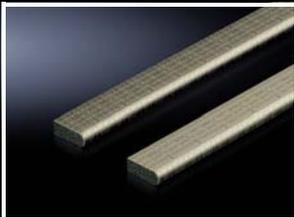
- 8 m

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>8800.695</b> |



**Also required:**

- Baying connector, external, page 912



### EMC divider panel seal

**for VX**

With bayed EMC enclosure systems and when using a zinc-plated divider panel, this seal ensures optimum contact and shield attenuation.

**Material:**

- PU foam with electrically conductive sheathing

**Supply includes:**

- 6 m

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>4348.500</b> |

### Rail

#### for EMC shielding bracket and strain relief

Combined rail for strain relief and EMC contacting of inserted cables.

#### Design:

- C rail to accommodate cable clamps
- T-head cut-outs on a 40 mm pitch pattern for cable clamping using cable ties

#### Benefits:

- Additional contacting on the left or right of the rail via existing holes (9 mm diameter)
- Prepared for tool-free mounting of EMC shielding brackets

#### Installation options:

- On the horizontal/vertical VX, VX SE, PC enclosure section
- On the mounting plate, may also be fitted without a retaining bracket

#### Material:

- Extruded aluminium section

#### Surface finish:

- Chrome-free passivated

#### Supply includes:

- 1 rail
- 2 retaining brackets
- Assembly parts

| For enclosure width mm | Length mm | Packs of | Model No.       |
|------------------------|-----------|----------|-----------------|
| 600                    | 553       | 1 pc(s). | <b>2388.650</b> |
| 800                    | 753       | 1 pc(s). | <b>2388.850</b> |
| 1000                   | 953       | 1 pc(s). | <b>2388.050</b> |
| 1200                   | 1153      | 1 pc(s). | <b>2388.125</b> |



#### Also required:

- EMC shielding bracket, see page 1029
- Cable clamps, see page 1060



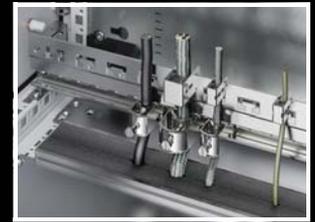
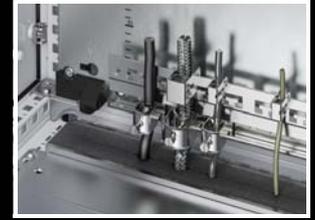
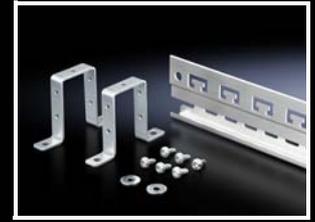
#### Accessories:

- Support bracket or spacer, see page 1001
- Quick-assembly block, see page 1001
- Angle piece, see page 1001
- Earth straps, see page 1033
- Earthing braid, see page 1033



#### Possible alternative:

- C rails 30/15, see page 996



### EMC shielding bracket

Quick assembly without the use of tools: Press the EMC shielding bracket against the cable shield and clip into the rail. Diameter changes are compensated in full by the spring of the EMC shielding bracket.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

| For shield diameter mm | Packs of  | Model No.       |
|------------------------|-----------|-----------------|
| 3 - 10                 | 10 pc(s). | <b>2388.100</b> |
| 4 - 15                 | 10 pc(s). | <b>2388.150</b> |
| 10 - 20                | 10 pc(s). | <b>2388.200</b> |
| 15 - 28                | 10 pc(s). | <b>2388.280</b> |



### EMC gland plate

#### for VX, VX SE

For shielded cables with a maximum diameter of 20 mm. Combined EMC/IP seal provides low-resistance contact between cable shield and gland plate. For all 400, 500, 600 and 800 mm deep enclosures in conjunction with standard gland plates.

#### Material:

- Sheet steel

#### Surface finish:

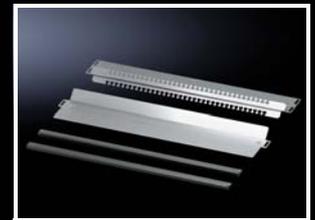
- Zinc-plated

#### Supply includes:

- 1 gland plate with twin hammer-head punching
- 1 sliding base plate
- 2 EMC/IP seals

| Width mm | Packs of | Model No.                    |
|----------|----------|------------------------------|
| 600      | 1 pc(s). | <b>8618.820</b>              |
| 800      | 1 pc(s). | <b>8618.821</b>              |
| 1000     | 1 pc(s). | <b>8618.822<sup>1)</sup></b> |
| 1200     | 1 pc(s). | <b>8618.823<sup>1)</sup></b> |

<sup>1)</sup> For one enclosure half only



# Interior installation

## EMC



### EMC cable gland

The cable sheathing may optionally be interrupted at the contact point or removed completely inside the enclosure. The cable shielding in the enclosure is retained. The supplied lock nut cuts automatically into the paint when screwed down, thus creating a conductive connection.

#### Protection category IP to IEC 60 529:

- IP 68

#### Possible alternative:

- Cable gland Hygienic Design, see page 1057

#### Cable gland, metric

| Size | Cable diameter mm | Minimum <sup>1)</sup> shield diameter mm | Packs of | Model No.       |
|------|-------------------|------------------------------------------|----------|-----------------|
| M16  | 4.5 – 10          | 3                                        | 5 pc(s). | <b>2843.160</b> |
| M20  | 6 – 12            | 5                                        | 5 pc(s). | <b>2843.200</b> |
| M25  | 11 – 17           | 8                                        | 5 pc(s). | <b>2843.250</b> |
| M32  | 15 – 21           | 10                                       | 1 pc(s). | <b>2843.320</b> |
| M40  | 19 – 28           | 15                                       | 1 pc(s). | <b>2843.400</b> |
| M50  | 27 – 38           | 19                                       | 1 pc(s). | <b>2843.500</b> |
| M63  | 34 – 44           | 30                                       | 1 pc(s). | <b>2843.630</b> |

<sup>1)</sup> Minimum shield diameter = cable diameter minus cable sheathing



### EMC shield bus

Made of corrosion-proof steel strip, 75 mm<sup>2</sup> cross section, for cable shield contact.

#### Supply includes:

- Assembly parts

| Rail length mm | Connections | Packs of | Model No.       |
|----------------|-------------|----------|-----------------|
| 375            | 10          | 1 pc(s). | <b>2413.375</b> |
| 550            | 16          | 1 pc(s). | <b>2413.550</b> |



### EMC earth clamp

The clamps may be used directly on the device or operating equipment on the mounting plate for cable shield contact.

#### Material:

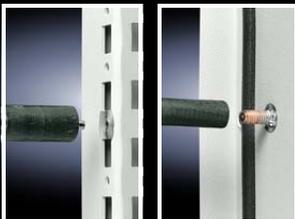
- Sheet steel

#### Surface finish:

- Zinc-plated

| Size mm | Packs of  | Model No.                    |
|---------|-----------|------------------------------|
| 4       | 50 pc(s). | <b>2367.040</b>              |
| 6       | 50 pc(s). | <b>2367.060</b>              |
| 8       | 50 pc(s). | <b>2367.080</b>              |
| 12      | 50 pc(s). | <b>2367.120</b>              |
| 16      | 50 pc(s). | <b>2367.160</b>              |
| 20      | 25 pc(s). | <b>2367.200<sup>1)</sup></b> |

<sup>1)</sup> 2 mounting brackets



### Contact cutter

The contact cutter enables EMC-compatible preparation of the contact point e.g. for earthing braids. Plastic-bound abrasive with guide pin for round system punchings. With location point for drill, grinder etc.

| For                          | Model No.       |
|------------------------------|-----------------|
| Frame section                | <b>2414.000</b> |
| Earthing bolts <sup>1)</sup> | <b>2414.500</b> |

<sup>1)</sup> Not necessary with VX, VX SE



### Contact paint

Contact paint prevents the corrosion of conductive, unprotected contact points.

#### Contents:

- 12 ml

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>2415.000</b> |

# Interior installation

## VX25 for areas at risk of earthquakes

The versions listed have been tested and meet the requirements to Telcordia GR 63-CORE. They should be seen as a comparative variable to the customer's own plant, since empty enclosures cannot be certified.

**Note:**

- Further information can be found in the white paper "Earthquake protection for switchgear systems" on the Internet

**VX25 for earthquake zone 1 and 2 to Telcordia GR 63-CORE**

VX 8806.000:  
W x H x D: 800 x 2000 x 600 mm,  
see page 125

Fitted with:

- Side panels, see page 901
- Base/plinth VX (corner pieces with base/plinth trim panels, front and rear and side base/plinth trim panels, 100 mm high), see page 881/882

**VX25 for earthquake zone 3 to Telcordia GR 63-CORE**

VX 8806.000:  
W x H x D: 800 x 2000 x 600 mm,  
see page 125

Fitted with:

- Side panels, see page 901
- Comfort handle VX, see page 937
- Earthquake base/plinth, see page 1032

**VX25 for earthquake zone 4 to Telcordia GR 63-CORE**

VX 8806.000:  
W x H x D: 800 x 2000 x 600 mm,  
see page 125

Fitted with:

- Side panels, see page 901
- Comfort handle VX, see page 937
- Earthquake base/plinth, see page 1032
- Earthquake kit, see page 1032



# Interior installation

## VX25 for areas at risk of earthquakes



### Earthquake base/plinth

for VX  
Height 100 mm

- For stable attachment of the earthquake-resistant enclosure to the subsurface.
- External metric M6 thread for a stable connection to the subsurface from the outside

**Material:**

- Corner piece: Sheet steel, 5 mm
- Trim panels: Sheet steel, 2 mm

**Surface finish:**

- Powder-coated

**Colour:**

- RAL 7022

**Supply includes:**

- 1 pc(s) =  
4 corner pieces,  
2 depth stays,  
1 trim panel each front and rear  
Fully assembled.

| For enclosures<br>W x D<br>mm | Packs of | Model No.       |
|-------------------------------|----------|-----------------|
| 800 x 600                     | 1 pc(s). | <b>8601.860</b> |



### Earthquake kit

for VX

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- 1 pc(s) =  
2 side reinforcements, bottom  
4 bracing struts, sides  
6 gusset plates  
2 door safety brackets  
4 punched sections with  
mounting flanges 23 x 64 mm  
2 mounting rails 18 x 39 mm  
8 angle plates  
Mounting plate attachment  
Assembly parts

| For enclosures<br>W x H x D<br>mm | Packs of | Model No.       |
|-----------------------------------|----------|-----------------|
| 800 x 2000 x 600                  | 1 pc(s). | <b>8618.600</b> |

# Interior installation

## Earthing

### Earth straps

For configuring a reliable earthing connection with perfect contact

- With ring terminals in M6 and M8 to match the earthing screws
- Length-optimised and ready to install

| Enclosure | Connection option |           |                |
|-----------|-------------------|-----------|----------------|
|           | Door/cover        | Enclosure | Mounting plate |
| KX        | M6                | M6        | M6             |
| AX        | M8                | M8        | M8             |
| VX        | M8                | M8        | M8             |
| Ex        | M8                | M8        | M8             |
| TP        | M6                | M8        | M8             |
| VX SE     | M8                | M8        | M8             |
| PC        | M8                | M8        | -              |

| Connection | Cross-section mm <sup>2</sup> | Length mm | Packs of | Model No.       |
|------------|-------------------------------|-----------|----------|-----------------|
| M8 – M8    | 4                             | 170       | 5 pc(s). | <b>2564.000</b> |
| M8 – M8    | 16                            | 170       | 5 pc(s). | <b>2565.000</b> |
| M8 – M8    | 25                            | 170       | 5 pc(s). | <b>2566.000</b> |
| M6 – M6    | 10                            | 200       | 5 pc(s). | <b>2565.100</b> |
| M8 – M8    | 4                             | 300       | 5 pc(s). | <b>2567.000</b> |
| M6 – M8    | 10                            | 300       | 5 pc(s). | <b>2565.110</b> |
| M8 – M8    | 10                            | 300       | 5 pc(s). | <b>2565.120</b> |
| M8 – M8    | 16                            | 300       | 5 pc(s). | <b>2568.000</b> |
| M8 – M8    | 25                            | 300       | 5 pc(s). | <b>2569.000</b> |
| M6 – M6    | 10                            | 350       | 5 pc(s). | <b>2565.050</b> |



**!** **Also required:**

- Assembly parts for earth straps, see page 1033

### Earthing braid

Tin-plated copper, in various lengths and cross-sections with press-fitted contact rings. Earthing braids counteract the current displacement effect at high frequencies, whilst at the same time offering highly flexible connection opportunities.

**Approvals:**

- UR, cUR

| For | Cross-section mm <sup>2</sup> | Length mm | Packs of  | Model No.       |
|-----|-------------------------------|-----------|-----------|-----------------|
| M6  | 10                            | 200       | 10 pc(s). | <b>2412.210</b> |
| M8  | 16                            | 200       | 10 pc(s). | <b>2412.216</b> |
| M8  | 25                            | 200       | 10 pc(s). | <b>2412.225</b> |
| M6  | 10                            | 300       | 10 pc(s). | <b>2412.310</b> |
| M8  | 16                            | 300       | 10 pc(s). | <b>2412.316</b> |
| M8  | 25                            | 300       | 10 pc(s). | <b>2412.325</b> |



**!** **Also required:**

- Assembly parts for earth straps, see page 1033

### Assembly parts

**for earth straps**

For fastening the earth straps and earthing braids to:

- Horizontal and vertical enclosure sections
- Punched section with mounting flange, 23 x 64 mm
- Punched section without mounting flanges, 23 x 64 mm
- Gland plates

| Size | Packs of  | Model No.       |
|------|-----------|-----------------|
| M6   | 10 pc(s). | <b>2570.000</b> |
| M8   | 10 pc(s). | <b>2559.000</b> |

**!** **Also required:**

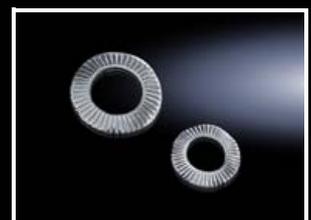
- For mounting on horizontal and vertical enclosure sections: Cage nuts, see page 1002



### Contact washer

Serrated contact washers facilitate the secure connection of PE conductors, so there is no need to manually strip paint in the connection area.

| Size | Packs of   | Model No.       |
|------|------------|-----------------|
| M5   | 100 pc(s). | <b>2343.000</b> |
| M6   | 100 pc(s). | <b>2334.000</b> |
| M8   | 100 pc(s). | <b>2335.000</b> |



# Interior installation

## Earthing



### Earthing plate

- For installation in
- Comfort Panel
  - Optipanel
  - VX
  - VX SE
  - PC

One earthing cable can be screw-fastened to the threaded bolt and connected to up to 8 components with earth straps via 6.3 mm flat-pin connectors.

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>2570.500</b> |

#### Supply includes:

- Assembly parts



### Central earthing point

- For connecting
- Earth straps
  - Earthing braids
- to the vertical and horizontal enclosure sections. The connection bracket is connected to the enclosure frame with 2 screws and is securely contacted. Earth connection is via the threaded bolt M8 x 20 mm.

#### Material:

- Sheet steel

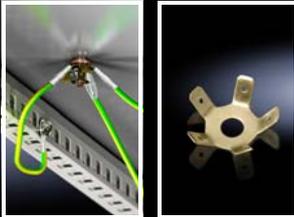
#### Surface finish:

- Zinc-plated

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>7829.200</b> |

#### Supply includes:

- 1 connection bracket
- 2 assembly screws for mounting on the enclosure section
- 2 serrated washers
- 1 nut M8
- 1 contact washer M8
- 1 washer



### Potential equalisation star

#### for 8 mm earthing bolt

The earthing connector is used for simple potential equalisation on an 8 mm earthing bolt, or in conjunction with central earthing point 7829.200. Up to five flat-pin connectors (6.3 mm) may be contacted on one earthing point.

| Packs of  | Model No.       |
|-----------|-----------------|
| 10 pc(s). | <b>7548.210</b> |

#### Supply includes:

- 10 earthing connectors
- Assembly parts

### Potential equalisation kit

#### for VX IT

Central earthing point on the enclosure frame for simple connection of the enclosure to the earthing/potential equalisation network (rack bonding conductor (RBC) connection point).

#### Application:

- To create seamless central potential equalisation between all installed components and/or to ensure functional earthing to EN 50 310

#### Functional principle:

- Contact between all enclosure panels and the enclosure frame as central earthing point plus contact with all installed components to the same potential, via a conductive attachment or separate earth strap

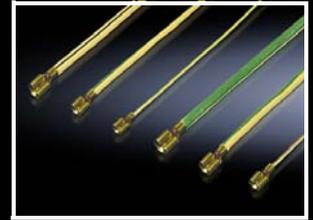
#### Supply includes:

- 7 earth straps (4 mm<sup>2</sup>), for doors and optional side panels
- Central earthing point
- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>5302.027</b> |

#### Note:

- If a risk assessment of the ultimate application has been carried out by a qualified electrician and no extended risk potential has been identified, no protective earthing measures are required



### Earthing extension kits

To supplement the existing earthing or potential equalisation sets for integrating additional installation components into the potential equalisation system. For targeted contact of installation components with the enclosure frame. The earth conductors are pre-assembled with connectors ready for connection and cut to the correct length.

#### Application:

- For extending the existing potential equalisation set

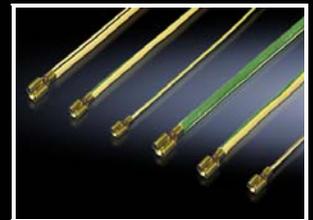
| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>7829.150</b> |

#### Supply includes:

- 8 earth straps, UL style 1015 AWG 12
- Connection accessories

#### Approvals:

- UL



### Potential equalisation kit, Plus version

#### for VX IT

For improved EMC.

#### Benefits:

- All enclosure elements are connected via earthing braids to a central, vertical potential equalisation rail (rack bonding busbar, RBB) via the frame structure as central consolidation point

#### Application:

- Ensures continuous potential equalisation and/or functional earthing
- Improved protection from high-frequency interfering radiation to EN 50 310

#### Functional principle:

- Potential equalisation rail for central potential equalisation of all installed equipment on the enclosure and components connected to the potential equalisation

#### Supply includes:

- 6 earthing braids (M8), 10 mm<sup>2</sup>, for sheet steel doors, side panels, potential equalisation rail
- Potential equalisation rail, length 1545 mm, for height 1800 – 2000 mm
- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>5302.028</b> |

#### Note:

- If a risk assessment of the ultimate application has been carried out by a qualified electrician and no extended risk potential has been identified, no protective earthing measures are required
- To ensure an increased shielding effect of the enclosure, use of an enclosure with an all-round sealed body is advisable, similar to that used in IP enclosure variants with a solid sheet steel door at the front (as configuration only), solid roof plate, screw-fastened side panels and solid base



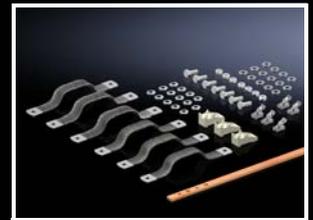
#### Assembly instruction:

- The specific connection cables between the installed equipment and the potential equalisation rail must be supplied by the user



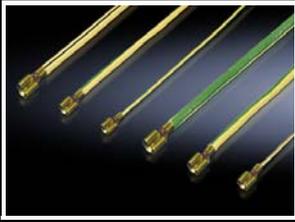
#### Accessories:

- Conductor connection clamp, see page 349



# Interior installation

## Earthing



### Complete earthing kit

#### for TE

For system-compatible earthing of all housing parts on the housing frame. The earth conductors are pre-assembled with connectors ready for connection and cut to the correct length.

#### Supply includes:

- 4 earth straps, 300 mm
- 4 earth straps, 350 mm
- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>7000.675</b> |

#### Note:

- If a risk assessment of the ultimate application has been carried out by a qualified electrician and no extended risk potential has been identified, no protective earthing measures are required



### PE busbar

699 mm long PE busbar with 42 pre-fitted screws, including terminal clamps up to 6 mm<sup>2</sup> (fine wire conductors), 10 mm<sup>2</sup> (single wire or multi-wire conductors) and main terminal clamp up to 35 mm<sup>2</sup>.

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>2364.000</b> |



#### Accessories:

- Cable retainer, see page 1002



### Earth rail, horizontal

#### for VX, VX SE, VX IT

#### Supply includes:

- Earth rail made from E-Cu 57 to DIN EN 12 163, DIN EN 13 601, 15 x 5 mm
- 20 connection points with M5 screws
- 2 earth connections 25 mm<sup>2</sup>
- 2 isolators
- Assembly parts

| For enclosure width mm | Width mm | Height mm | Length mm | Packs of | Model No.       |
|------------------------|----------|-----------|-----------|----------|-----------------|
| 600, 800               | 15       | 5         | 450       | 1 pc(s). | <b>7113.000</b> |



### Earth rail, vertical

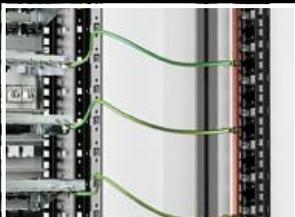
#### for VX, VX IT

Easily fitted to the 25 mm DIN pitch pattern of distributors or to the 482.6 mm (19") mounting angles. The supplied earth conductors facilitate star earthing of the cable clamp straps in the patch panels. The earth terminals are fully adjustable. Current carrying capacity of rail approx. 200 A.

#### Supply includes:

- Earth rail made from E-Cu 57 to DIN EN 12 163, DIN EN 13 601, 15 x 5 mm
- 16 push-in conductor connection clamps, 1.5 - 16 mm<sup>2</sup>
- 15 earthing leads 6 mm<sup>2</sup>, L = 500 mm
- Assembly parts

| For enclosure height mm | Length mm | Packs of | Model No.       |
|-------------------------|-----------|----------|-----------------|
| 800                     | 545       | 1 pc(s). | <b>7541.000</b> |
| 1000                    | 745       | 1 pc(s). | <b>7542.000</b> |
| 1200                    | 945       | 1 pc(s). | <b>7543.000</b> |
| 1400                    | 1145      | 1 pc(s). | <b>7544.000</b> |
| 1600                    | 1345      | 1 pc(s). | <b>7545.000</b> |
| 1800                    | 1545      | 1 pc(s). | <b>7546.000</b> |
| 2000                    | 1745      | 1 pc(s). | <b>7547.000</b> |
| 2200                    | 1945      | 1 pc(s). | <b>7548.000</b> |



# Interior installation

## Earthing

### Extension kit

#### for earth rail, vertical

For system-compatible expansion of the star earthing on the vertical potential equalisation rail.

#### Supply includes:

- Earthing leads 6 mm<sup>2</sup>, L = 500 mm
- Preassembled, with ring terminal and wire end ferrule
- Push-in conductor connection clamps 1.5 – 16 mm<sup>2</sup>
- Assembly parts

| Packs of  | Model No. |
|-----------|-----------|
| 10 pc(s). | 7549.000  |



### ESD connection point

Dangerously high potential differences can occur during maintenance or conversion work on the enclosure. To protect sensitive electronic components, this standardised connection point (push-button) provides potential equalisation between service engineer and enclosure. The connection point is directly conductively connected to the enclosure frame via two screws.

| Packs of | Model No. |
|----------|-----------|
| 1 pc(s). | 7752.950  |

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts



# Interior installation

## Earthing



### PE/PEN busbar E-Cu

for VX

With integral punchings.

**Material:**

– E-Cu

**Standards:**

– DIN EN 13601



**Accessories:**

- PE/PEN angle bracket, see page 1038
- PE/PEN baying bracket E-Cu, see page 1039

#### Dimension 30 x 5 mm

| For enclosure width mm | Length mm | Hole Ø mm | Packs of | Model No.       |
|------------------------|-----------|-----------|----------|-----------------|
| 400                    | 300       | 11.5      | 2 pc(s). | <b>9686.524</b> |
| 600                    | 500       | 11.5      | 2 pc(s). | <b>9686.526</b> |
| 800                    | 700       | 11.5      | 2 pc(s). | <b>9686.528</b> |
| 1000                   | 900       | 11.5      | 2 pc(s). | <b>9686.520</b> |
| 1200                   | 1100      | 11.5      | 2 pc(s). | <b>9686.522</b> |

#### Dimension 30 x 10 mm

| For enclosure width mm | Length mm | Hole Ø mm | Packs of | Model No.       |
|------------------------|-----------|-----------|----------|-----------------|
| 400                    | 300       | 11.5      | 2 pc(s). | <b>9686.534</b> |
| 600                    | 500       | 11.5      | 2 pc(s). | <b>9686.536</b> |
| 800                    | 700       | 11.5      | 2 pc(s). | <b>9686.538</b> |
| 1000                   | 900       | 11.5      | 2 pc(s). | <b>9686.530</b> |
| 1200                   | 1100      | 11.5      | 2 pc(s). | <b>9686.532</b> |

#### Dimension 40 x 10 mm

| For enclosure width mm | Length mm | Hole Ø mm | Packs of | Model No.       |
|------------------------|-----------|-----------|----------|-----------------|
| 400                    | 300       | 11.5      | 2 pc(s). | <b>9686.544</b> |
| 600                    | 500       | 11.5      | 2 pc(s). | <b>9686.546</b> |
| 800                    | 700       | 11.5      | 2 pc(s). | <b>9686.548</b> |
| 1000                   | 900       | 11.5      | 2 pc(s). | <b>9686.540</b> |
| 1200                   | 1100      | 11.5      | 2 pc(s). | <b>9686.542</b> |

#### Dimension 80 x 10 mm

| For enclosure width mm | Length mm | Hole Ø mm | Packs of | Model No.       |
|------------------------|-----------|-----------|----------|-----------------|
| 400                    | 300       | 11.5      | 2 pc(s). | <b>9686.584</b> |
| 600                    | 500       | 11.5      | 2 pc(s). | <b>9686.586</b> |
| 800                    | 700       | 11.5      | 2 pc(s). | <b>9686.588</b> |
| 1000                   | 900       | 11.5      | 2 pc(s). | <b>9686.580</b> |
| 1200                   | 1100      | 11.5      | 2 pc(s). | <b>9686.582</b> |



### PE/PEN angle bracket

for VX

For attaching the PE/PEN busbar to the enclosure section.

**Material:**

– Sheet steel, 3.0 mm

**Supply includes:**

– Assembly parts

| For busbar mm | Packs of | Model No.       |
|---------------|----------|-----------------|
| 30 x 5        | 2 pc(s). | <b>9686.350</b> |
| 30 x 10       |          |                 |
| 40 x 10       |          |                 |
| 80 x 10       |          |                 |

# Interior installation

## Earthing

### PE/PEN baying bracket E-Cu for VX

For connecting the busbars from enclosure to enclosure.

**Material:**

- E-Cu

**Standards:**

- DIN EN 13601

| Size mm | Length mm | Packs of | Model No.       |
|---------|-----------|----------|-----------------|
| 30 x 5  | 180       | 2 pc(s). | <b>9686.529</b> |
| 30 x 10 | 180       | 2 pc(s). | <b>9686.539</b> |
| 40 x 10 | 180       | 2 pc(s). | <b>9686.549</b> |
| 80 x 10 | 180       | 2 pc(s). | <b>9686.589</b> |



### Busbar support

**N conductor**

For assembling 1-pole neutral or PEN conductors. The busbar holder is mounted onto the enclosure section.

**Material:**

- Polyamide
- Fire protection corresponding to UL 94-HB

**Colour:**

- Similar to RAL 7016

**Supply includes:**

- Assembly parts

| For busbar mm | Packs of | Model No.       |
|---------------|----------|-----------------|
| 50 x 10       | 2 pc(s). | <b>9686.300</b> |



**Also required:**

- Busbars E-Cu, see page 342.



**Assembly instruction:**

- For the installation of max. 4 busbars (sub-conductors) per phase



**Accessories:**

- Longitudinal connector E-Cu, see page 397



### Inserted screw nut M12

Self-holding nuts with knurled ring for busbars E-Cu.

Hole diameter: 14.5 mm

| Packs of  | Model No.       |
|-----------|-----------------|
| 30 pc(s). | <b>3591.060</b> |



# Power supply

## Socket strips

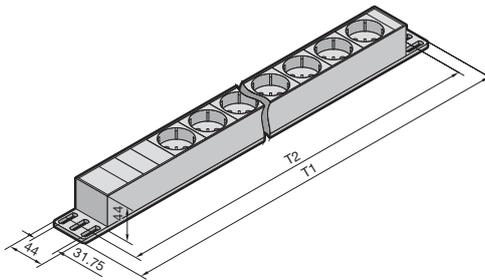


### Socket strips

#### in an aluminium duct

The socket strips are available in various lengths with different functional elements. Special attention has been devoted to practical, universal fastening: Variable attachment facilities have been created with an angle bracket which may be inserted in four positions. Hence, for example, the 482 mm long socket strip may optionally be mounted on 482.6 mm (19") mounting angles, the 482.6 mm (19") mounting frame, on the enclosure frame, or in the rear section of the wall-mounted distributor. Without additional mounting accessories, the socket strip may be inserted into all sections with a 25 mm hole pattern. This makes selection much easier, as well as providing additional flexibility and saving on warehousing. Provision has also been made for cable routing of the infeed, and when mounting in the 482.6 mm (19") section there is adequate space to route the infeed between the socket strip and the profile rail without kinks.

The arrangement of the IEC 320 sockets at a 45° angle allows unrestricted use of angular connectors.



#### Technical specifications:

##### Earthing-pin socket strips

- Connector type F (CEE 7/3)
- Rated operating voltage: 250 V
- Connection cable: 2 m long H05VV-F3G1.5 without connector, [5] with connector

##### Belgium/France (UTE) socket strips

- Connector type E (CEE 7/5)
- Rated operating voltage: 250 V
- Connection cable: 2 m long H05VV-F3G1.5 with wire end ferrules

##### Equipment connector strips (IEC 60 320-1/C13) socket strips

- Rated operating voltage: 250 V
- Input: With C14 connector (H05VV-F3G1.0) or without connector (H05VV-F3G1.5), depending on the variant

#### Material:

- Aluminium section: Natural anodised
- Socket inserts: Polycarbonate

#### Supply includes:

- Socket strip
- 2 mounting brackets
- Assembly parts

#### Standards:

- Earthing-pin socket: DIN 49 440
- IEC 320 socket: EN 60 320-2-2
- Overvoltage protection: DIN EN 61 643-11 (VDE 0675 Part 6-11)

#### Approvals:

- CE
- RoHS

#### Note:

- Depending on the application, we recommend use of a charging current reserve to prevent incorrect activation due to starting-current spikes

#### Earthing-pin connector type

| Version                                                                                | Rated current A | Con-nection | No. of sockets | Attachment |                                           |                      | Length (T1) mm | Mount- ing dimen- sion (T2) mm <sup>1)</sup> | Packs of | Model No.       |
|----------------------------------------------------------------------------------------|-----------------|-------------|----------------|------------|-------------------------------------------|----------------------|----------------|----------------------------------------------|----------|-----------------|
|                                                                                        |                 |             |                | Frame      | Wall- mounted distribu- tor, hori- zontal | 482.6 mm (19") level |                |                                              |          |                 |
| [1] Without rocker switch                                                              | 16              | Cable       | 3              | ■          | -                                         | -                    | 262.6          | 232.5                                        | 1 pc(s). | <b>7240.110</b> |
|                                                                                        |                 |             | 7              | ■          | ■                                         | ■                    | 482.6          | 452.5                                        | 1 pc(s). | <b>7240.210</b> |
|                                                                                        |                 |             | 12             | ■          | -                                         | -                    | 658.6          | 628.5                                        | 1 pc(s). | <b>7240.310</b> |
| [2] With rocker switch                                                                 | 16              | Cable       | 3              | ■          | -                                         | -                    | 306.6          | 276.5                                        | 1 pc(s). | <b>7240.120</b> |
|                                                                                        |                 |             | 7              | ■          | ■                                         | ■                    | 482.6          | 452.5                                        | 1 pc(s). | <b>7240.220</b> |
| [3] Overvoltage protection, type 3 and interference suppressor filter                  | 16              | Cable       | 5              | ■          | ■                                         | ■                    | 482.6          | 452.5                                        | 1 pc(s). | <b>7240.230</b> |
|                                                                                        |                 |             | 9              | ■          | -                                         | -                    | 658.6          | 628.5                                        | 1 pc(s). | <b>7240.330</b> |
| [4] Circuit-breaker, type B, 16 A, 2-pole                                              | 16              | Cable       | 5              | ■          | ■                                         | ■                    | 482.6          | 452.5                                        | 1 pc(s). | <b>7240.240</b> |
| [5] UPS strip, connection cable with 10 A IEC 320 connector, type E, with G fuse, 10 A | 10              | C14         | 7              | ■          | ■                                         | ■                    | 482.6          | 452.5                                        | 1 pc(s). | <b>7240.260</b> |
| [6] FI switch, 0.03 A, 2-pole, type A                                                  | 16              | Cable       | 5              | ■          | ■                                         | ■                    | 482.6          | 452.5                                        | 1 pc(s). | <b>7240.280</b> |
| UTE sockets, type E with earthing pin (Belgium/France)                                 | 16              | Cable       | 7              | ■          | ■                                         | ■                    | 482.6          | 452.5                                        | 1 pc(s). | <b>7240.510</b> |

<sup>1)</sup> Variable attachment distance within a range of 25 mm, the distance given is hole centre - hole centre of mounting bracket

#### C13 connector type

| Version                                   | Rated current A | Con-nection | No. of sockets | Attachment |                                           |                      | Length (T1) mm | Mount- ing dimen- sion (T2) mm <sup>1)</sup> | Packs of | Model No.       |
|-------------------------------------------|-----------------|-------------|----------------|------------|-------------------------------------------|----------------------|----------------|----------------------------------------------|----------|-----------------|
|                                           |                 |             |                | Frame      | Wall- mounted distribu- tor, hori- zontal | 482.6 mm (19") level |                |                                              |          |                 |
| For IEC 320 connectors                    | 16              | Cable       | 12             | ■          | ■                                         | ■                    | 482.6          | 452.5                                        | 1 pc(s). | <b>7240.200</b> |
| For IEC 320 connectors with IEC 320 input | 10              | C14         | 9              | ■          | ■                                         | ■                    | 482.6          | 452.5                                        | 1 pc(s). | <b>7240.201</b> |

<sup>1)</sup> Variable attachment distance within a range of 25 mm, the distance given is hole centre - hole centre of mounting bracket

# Power supply

## Socket strips

### Socket strip

#### Earthing-pin, with plastic housing

Robust 8-way earthing-pin socket strip in a plastic housing. The strip may be mounted vertically on the enclosure frame or in the 482.6 mm (19") section. 2.5 U are required for 482.6 mm (19") installation. The earthing-pin inserts are arranged at an angle of 45° so that angular connectors are also easily used. The connection cable is attached to a terminal connection (behind a removable cover) in the socket strip. The socket strip has a terminal for an external earthing connection.

#### Technical specifications:

- Connector type F (CEE 7/3)
- Rated operating voltage: 230 V
- Rated current: 16 A
- Connection cable: Type H05WW-F3G1.5 (black) with wire end ferrules
- Length: 2 m
- Dimensions:  
W x H x D: 483 x 74 x 45 mm

| Socket strip        | Packs of | Model No. |
|---------------------|----------|-----------|
| 8-way, earthing-pin | 1 pc(s). | 7000.630  |

#### Supply includes:

- Socket strip
- Assembly parts

#### Material:

- Plastic (grey/black)

#### Approvals:

- CE
- RoHS



### Socket strip

#### with power measurement

The socket strip 7x CEE 7/3 (type F - earthing-pin socket) with integrated display measures the power consumed by all connected equipment. The 482.6 mm (19") long socket strip may optionally be mounted on the 482.6 mm (19") mounting angles, on the enclosure frame or in the rear section of wall-mounted distributors. The installation bracket may be mounted in four different positions for variable mounting. Without additional mounting accessories, the socket strip may be inserted into all sections with a 25 mm hole pattern.

#### Installation options:

- Components with a 25 mm pitch pattern
- 482.6 mm (19") level
- Enclosure frame
- IT rack, at the rear, horizontal (adequate width provided)

#### Benefits:

- Measurement accuracy of  $\pm 5\%$

#### Functions:

- Measurement of current, voltage, frequency, active power, active energy and phase shift

#### Material:

- Aluminium section: Natural anodised
- Socket inserts: Polycarbonate

#### Colour:

- Socket: RAL 7035

#### Supply includes:

- Socket strip
- 2 mounting brackets
- 3 m connection cable with wire end ferrules
- Assembly parts



| Version      | No. of sockets | Socket/jack (type)                | Height mm | Length mm | Depth mm | Mounting dimension mm | Rated voltage | Phase current A | Packs of | Model No. |
|--------------|----------------|-----------------------------------|-----------|-----------|----------|-----------------------|---------------|-----------------|----------|-----------|
| With display | 7              | D, earthing-pin (type F, CEE 7/3) | 45        | 482.6     | 50       | 464.1                 | 230 V AC      | 16              | 1 pc(s). | 7240.301  |

# Power supply

## Socket strips



### Junction box

#### with multi-functional bracket

The angle bracket can be installed in all network enclosures in a system-compatible design. The junction box serves as a transfer point for the power supply to all equipment (fans, lights and socket strips). As well as being used as a junction box or interchange point, the bracket can also accommodate the enclosure internal thermostat 3110.000 or the hygrostat 3118.000, thanks to its integral holes.

#### Material:

- Sheet steel

#### Colour:

- RAL 7035

#### Supply includes:

- Junction box
- Bracket
- 6 m connection cable 3 x 1.5 mm<sup>2</sup> (flexible)

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>7280.035</b> |



### Socket

- For mounting on support rails TS 35/7.5 and TS 35/15 to EN 60 715
- Uniform screw terminals from one side
- Enclosure width: 45 mm

#### Technical specifications:

- Rated voltage: 250 V AC
- Rated current: 16 A

#### Material:

- Polyamide

#### Colour:

- Grey

#### Approvals:

- VDE

| Version              | Packs of | Model No.       |
|----------------------|----------|-----------------|
| Earthing-pin/CEE 7/3 | 2 pc(s). | <b>2506.120</b> |



### Service socket

#### for enclosure frame attachment/16 A

Integration of a service socket within a separate supply circuit, independently of the IT network and UPS. Simple installation via an angle bracket for attaching to the enclosure frame.

Type: Earthing contact/CEE 7/3

#### Material:

- Angle bracket: Sheet steel
- Socket: Plastic

#### Surface finish:

- Angle bracket: Zinc-plated

#### Supply includes:

- Service socket
- Angle bracket
- Damp-proof socket (IP 44)
- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>7280.100</b> |



# Power supply

## Socket strips

### Energy-Box, 3 U, 482.6 mm (19")

#### Technical specifications:

- Depth-adjustable top hat rail for installed equipment to DIN 43 880, sizes 1 – 3 (e.g. to accommodate built-in sockets, circuit-breakers etc.)
- Cable clamping at the rear, one N and one PE rail on an insulated plinth.
- Plastic hood including extension cover (UL 94-V0)
- Maximum accommodation capacity of 22 HP (22 x 18 mm = 396 mm).
- Enclosure height: 3 U
- Enclosure depth: 155 mm
- Overall installation depth with C rail: 155 mm
- Dimensions: W x H x D: 483 x 132.5 x 155 mm

#### Colour:

- RAL 7035

#### Supply includes:

- Energy-Box with fitted N and PE rails and brush strip
- 4 connection clamps, 35 mm<sup>2</sup>
- 18 connection clamps, 16 mm<sup>2</sup>
- 2 blanking covers
- 12 clips for cable strain relief
- Identification strips, self-adhesive

| U | Packs of | Model No. |
|---|----------|-----------|
| 3 | 1 pc(s). | 7480.035  |

Photo shows a configuration example with equipment not included in the scope of supply



### Energy-Box, 3 U, 482.6 mm (19")

#### Pull-out

#### Technical specifications:

- Depth-adjustable top hat rail for snap-in attachment of installed equipment to DIN 43 880 in sizes 1 – 3 (e.g. to accommodate built-in sockets, circuit-breakers etc.) or entire installation assemblies.
- Cable clamping at rear
- Two power distribution rails with connection clamps on insulated base/plinth
- Plastic hood including extension cover
- Maximum accommodation capacity of 22 HP (22 x 18 mm = 396 mm).
- Enclosure height: 3 U
- Enclosure depth: 223 mm
- Maximum extension: 220 mm
- Dimensions: W x H x D: 483.5 x 132 x 223 mm

#### Colour:

- RAL 7035

#### Supply includes:

- Energy-Box with fitted N and PE rails and brush strip
- 4 connection clamps, 35 mm<sup>2</sup>
- 18 connection clamps, 16 mm<sup>2</sup>
- 2 blanking covers
- 12 clips for cable strain relief
- Identification strips, self-adhesive

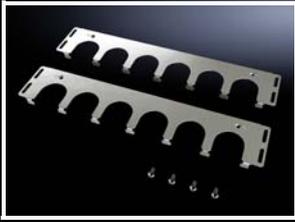
| U | Packs of | Model No. |
|---|----------|-----------|
| 3 | 1 pc(s). | 7480.300  |

Photo shows a configuration example with equipment not included in the scope of supply



# Cable management

## Cable entry



### Cable entry plate

#### for VX, VX SE

- Cable entry grommet
  - Connector grommet
- instead of segments from the standard divided gland plates

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Protection category IP to IEC 60 529:

- IP 55 in conjunction with cable entry grommets or connector grommets

#### Supply includes:

- Assembly parts

| Enclosure width mm | Cut-outs per plate | Packs of | Model No.       |
|--------------------|--------------------|----------|-----------------|
| 600                | 6                  | 2 pc(s). | <b>8619.800</b> |
| 800                | 8                  | 2 pc(s). | <b>8619.801</b> |
| 1000               | 5                  | 4 pc(s). | <b>8619.802</b> |
| 1200               | 6                  | 4 pc(s). | <b>8619.803</b> |

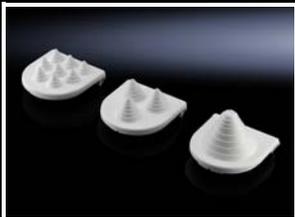
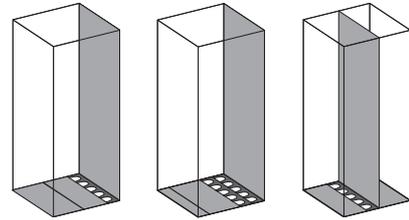


#### Also required:

- Cable entry grommet, see page 1044 or
- Connector grommet, see page 1044

### Three examples from a wide range of possibilities

The diagrams show three examples for positioning cable entry plates instead of segments from the three-piece gland plates supplied as standard. In this way, they can be positioned to fit the mounting plate. Thanks to the enclosure symmetry, where dimensions permit, cable entry plates may also be inserted in the enclosure depth, right and left, analogous to the gland plates.



### Cable entry grommet

In conjunction with the cable entry plate, supports simple, fast sealing of cables inserted into the base area of enclosures.

#### Material:

- Body: Polypropylene
- Cover: Thermoplastic elastomer

#### Protection category IP to IEC 60 529:

- IP 55 if installed correctly

| Cables per grommet | Max. Ø mm | Packs of  | Model No.       |
|--------------------|-----------|-----------|-----------------|
| 8                  | 13        | 25 pc(s). | <b>4316.000</b> |
| 3                  | 21        | 25 pc(s). | <b>4317.000</b> |
| 1                  | 47        | 25 pc(s). | <b>4318.000</b> |

### Connector grommets

Suitable for cable diameters from 8 to 36 mm.

#### Material:

- Outer cover: Polypropylene covered with thermoplastic elastomer
- Seal: Cellular rubber

#### Protection category IP to IEC 60 529:

- IP 55 if installed correctly

| Packs of  | Model No.       |
|-----------|-----------------|
| 10 pc(s). | <b>4311.000</b> |

# Cable management

## Cable entry

### Section for cable entry, centre for VX, VX SE

For top-mounting on gland plates.

**Material:**

- Extruded aluminium section
- Seal: PU foam
- Cross-section: 30 x 25 mm

**Protection category IP to IEC 60 529:**

- IP 55 if installed correctly

**Supply includes:**

- Plug-in sections, incl. foam rubber clamp strips

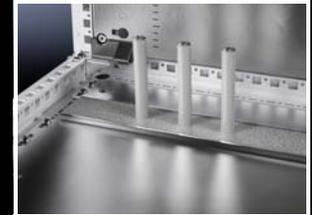
**Note:**

- You will need two pieces per cable entry point.
- From an enclosure width of 1000 mm, the base assembly is divided into two sections in the width. Two cable entry points (left/right) may be used.

| For enclosure width mm | Packs of | Model No.       |
|------------------------|----------|-----------------|
| 600                    | 2 pc(s). | <b>8618.800</b> |
| 800                    | 2 pc(s). | <b>8618.801</b> |
| 1000                   | 4 pc(s). | <b>8618.802</b> |
| 1200                   | 4 pc(s). | <b>8618.803</b> |
| 1600                   | 4 pc(s). | <b>8618.804</b> |

**+ Accessories:**

- Cable clamp rail, see page 1059



### Section for cable entry, rear for VX, VX SE

For top-mounting on the gland plate and enclosure frame.

**Material:**

- Extruded aluminium section
- Seal: PU foam
- Cross-section: 30 x 25 mm

**Protection category IP to IEC 60 529:**

- IP 55 if installed correctly

**Supply includes:**

- Plug-in sections, incl. foam rubber clamp strips

**Note:**

- You will need two pieces per cable entry point.
- From an enclosure width of 1000 mm, the base assembly is divided into two sections in the width. Two cable entry points (left/right) may be used.

| For enclosure width mm | Packs of | Model No.       |
|------------------------|----------|-----------------|
| 600                    | 2 pc(s). | <b>8618.810</b> |
| 800                    | 2 pc(s). | <b>8618.811</b> |
| 1000                   | 4 pc(s). | <b>8618.812</b> |
| 1200                   | 4 pc(s). | <b>8618.813</b> |
| 1600                   | 4 pc(s). | <b>8618.814</b> |

**+ Accessories:**

- Cable clamp rail, see page 1059



### Foam rubber cable clamp strip

For sealing the cable entry between the gland plates. Particularly suitable for identical cable cross-sections.

**Material:**

- PU foam
- Cross-section: 30 x 30 mm

**Protection category IP to IEC 60 529:**

- IP 55 if installed correctly

| Packs of | Model No.       |
|----------|-----------------|
| 3 m      | <b>2573.000</b> |



# Cable management

## Cable entry



### EMC gland plates

see page 1029



### Connector gland

#### for connector cut-outs (24-pole)

For inserting 2 pre-assembled cables through the connector cut-out, without dismantling the cable connector.

Cable diameters: 8 – 36 mm

#### Material:

- Enclosure: Plastic
- Clamps: Sheet steel

#### Surface finish:

- Clamps: Zinc-plated

#### Supply includes:

- 1 pc(s). = 2 half-shells, including seals, with fastening clamp

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>2400.000</b> |



### Cable gland

#### for IW worktops

To fit drilled holes  $\varnothing$  60 mm. For the entry of cables with pre-assembled connectors, the rotating flap and cover are easily removed.

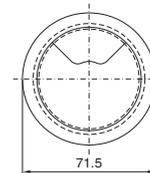
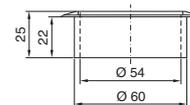
#### Material:

- Plastic

#### Colour:

- RAL 7035

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>6902.770</b> |



# Cable management

## Cable entry

### Edge protection

For covering sharp edges of cut-outs. Provides protection of injuries and prevents damage to inserted cables. The edge protector is suitable for material thicknesses of approx. 1.0 – 2.0 mm, and may be cut to length individually.

**Material:**

– Plastic PVC

**Colour:**

– Black

| Packs of | Model No.       |
|----------|-----------------|
| 10 m     | <b>7072.100</b> |



### Connector gland, small

For pre-assembled cables with connectors. For use with material thickness of up to 4 mm. Strain relief of the pre-assembled cables can be achieved with cable ties.

**Material:**

– Plastic

**Colour:**

– RAL 9005

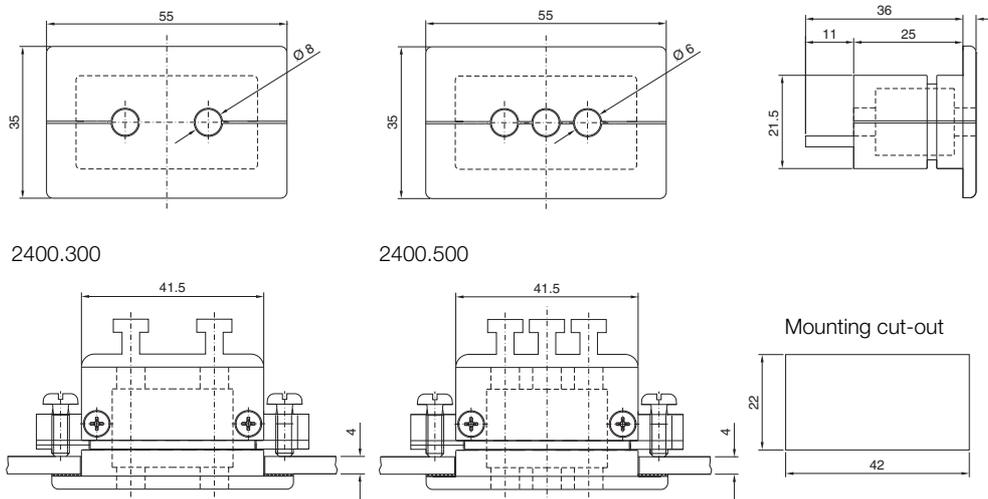
**Protection category IP to IEC 60 529:**

– IP 65 if installed correctly

**Supply includes:**

– Assembly parts

| To fit                 | Packs of | Model No.       |
|------------------------|----------|-----------------|
| 2 cables<br>Ø 6 – 8 mm | 1 pc(s). | <b>2400.300</b> |
| 3 cables<br>Ø 4 – 6 mm | 5 pc(s). | <b>2400.500</b> |



2400.300

2400.500

Mounting cut-out

# Cable management

## Cable entry



### Cable gland module

#### for support arm connection Ø 130 mm

Use of the mounting cut-out for support arm connection Ø 130 mm, round, with enclosures mounted on the wall, for sealed cable entry. May also be mounted retrospectively with the cables already inserted. Fitted with T-heads for cable clamping. Particularly well-suited to cables with identical cross-sections.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

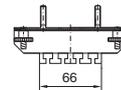
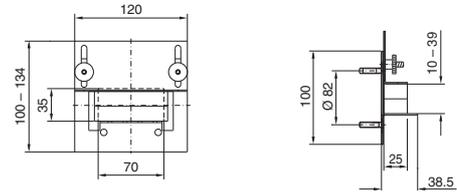
#### Supply includes:

- Assembly parts

#### Protection category IP to IEC 60 529:

- IP 55 with correct installation and cable entry

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>6052.500</b> |



### Stepped collar

#### for wall thicknesses from 1.5 to 4.5 mm

For cable entry, simply cut off at the required level to match the cable diameter.

#### Material:

- Plastic to UL 94-HB

#### Protection category IP to IEC 60 529:

- IP 54 with careful cable entry

| For hole | Sealing range mm | Packs of   | Model No.       |
|----------|------------------|------------|-----------------|
| M20      | 5 - 16           | 100 pc(s). | <b>2899.200</b> |
| M25      | 5 - 21           | 50 pc(s).  | <b>2899.250</b> |
| M32      | 13 - 26.5        | 25 pc(s).  | <b>2899.320</b> |
| M40      | 13 - 34          | 20 pc(s).  | <b>2899.400</b> |

### Sealing frame, modular

For the universal use on all surfaces and walls, for feeding through pre-fabricated cables with connectors. Can also be mounted onto 24-pole or 16-pole connector cut-outs.

#### Material:

- Plastic

#### Colour:

- Black

#### Protection category IP to IEC 60 529:

- IP 66

#### Supply includes:

- Sealing frame
- Locking frame

| Number of small seal inserts | For cut-out mm       | Model No.       |
|------------------------------|----------------------|-----------------|
| 10                           | 113.5 x 46 (24-pole) | <b>2583.100</b> |
| 8                            | 91 x 46 (16-pole)    | <b>2583.080</b> |



#### Also required:

- Inlay for plastic gland plate, modular and sealing frame, modular, see page 1051
- Seal inserts for cable gland plates, modular and sealing frame, modular, see page 1051

# Cable management

## Gland plates

### Plastic gland plate, modular and sealing frame, modular

The plastic gland plate, modular and the sealing frame, modular, offer extensive flexibility with the entry of assembled and unassembled cables, with or without connectors. Depending on the cable cross-section, suitable modules are selected to retain the high protection category of IP 66 after cable entry.

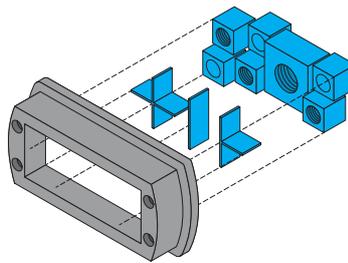
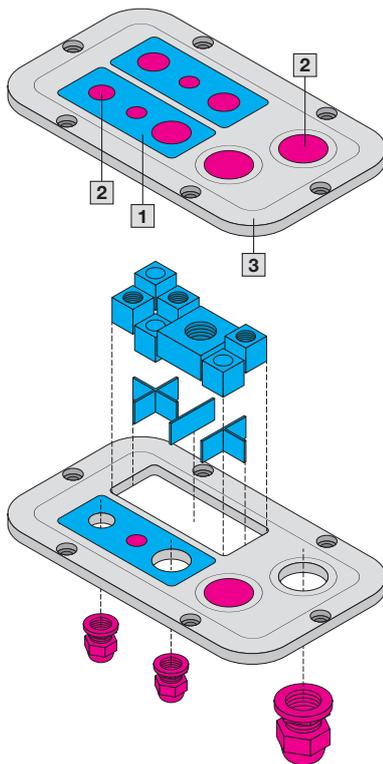
The gland plate design also supports mixed use with standard cable glands and inlays with seal inserts. In this way, cables prefitted with connectors may be safely inserted into the enclosure retrospectively. Seven different gland plate sizes are available. The sealing frame design may be used on any sufficiently large surface.



Plastic gland plate, modular for AX

- 1 Rectangular cut-outs for inlays and seal inserts, see page 1051
- 2 Metric knockouts for cable glands, see page 1056
- 3 Plastic gland plates, modular, see page 1050

Sealing frame, modular for AX, KX



# Cable management

## Gland plates



### Plastic gland plate, modular with metric knockouts, for AX

Simply pierce the plastic knockouts, and pull through the cable. Additional rectangular cut-outs and reinforcement frame allow the inlays and seal inserts to be installed directly.

#### Temperature range:

– Suitable for use from -40 °C...+80 °C

#### Material:

– Plastic to UL 94-V0

#### Colour:

– RAL 7035

#### Protection category IP to IEC 60 529:

– IP 66 if installed correctly

#### Note:

– The applicable size may be taken from the relevant product ordering page

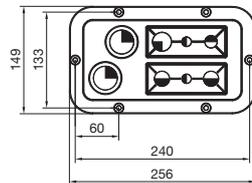


#### Accessories:

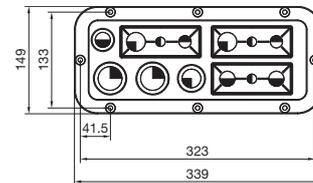
- Inlay, see page 1051
- Seal inserts, see page 1051
- Cable glands, see page 1056

| Model No.            | 2561.200    | 2562.200  | 2563.200                | 2564.200  | 2565.200  | 2566.200  | 2567.200  |
|----------------------|-------------|-----------|-------------------------|-----------|-----------|-----------|-----------|
| Packs of             | 1 pc(s).    | 1 pc(s).  | 1 pc(s).                | 1 pc(s).  | 1 pc(s).  | 1 pc(s).  | 1 pc(s).  |
| Gland plate          | Size 1      | Size 2    | Size 3                  | Size 4    | Size 5    | Size 6    | Size 7    |
| Dimensions W x D mm  | 256 x 149   | 339 x 149 | 447 x 149               | 534 x 149 | 301 x 221 | 401 x 221 | 436 x 221 |
|                      | Diameter mm |           | Number of cable entries |           |           |           |           |
|                      | M12         | 2         | 3                       | 4         | 5         | 4         | 4         |
|                      | M16         | 1         | 2                       | 3         | 4         | 4         | 5         |
|                      | M20         | 2         | 3                       | 5         | 6         | 4         | 5         |
|                      | M25         | 1         | 3                       | 3         | 5         | 3         | 4         |
|                      | M32         | 2         | 2                       | 1         | 1         | 1         | 1         |
|                      | M40         | –         | –                       | 1         | 1         | 1         | 1         |
|                      | M50         | –         | –                       | –         | –         | –         | 1         |
| Rectangular cut-outs | 2           | 3         | 4                       | 6         | 5         | 6         | 6         |

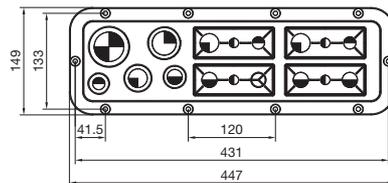
Size 1



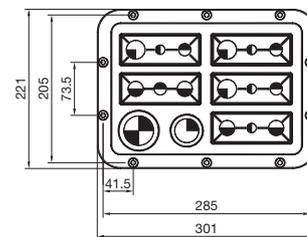
Size 2



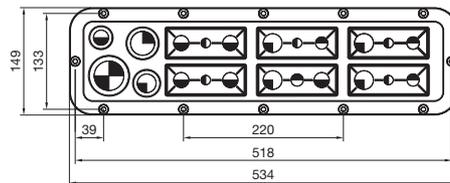
Size 3



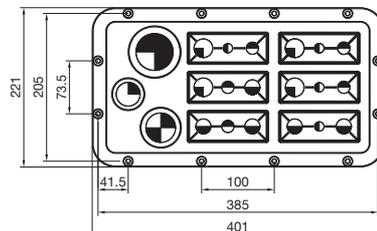
Size 5



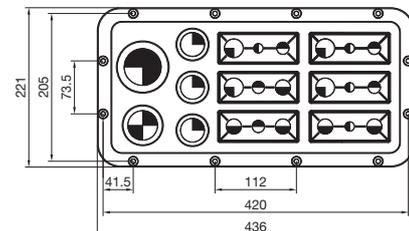
Size 4



Size 6



Size 7



# Cable management

## Gland plates

### Inlay

#### for plastic gland plate, modular and sealing frame, modular

Individual inserts to subdivide the cut-outs in the modular plastic gland plate and the modular sealing frame.

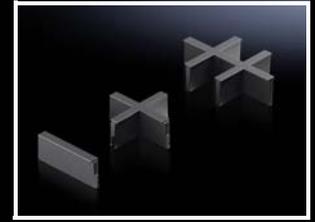
**Material:**

– Plastic

**Colour:**

– Black

| Version | Packs of | Model No.       |
|---------|----------|-----------------|
| 1 slot  | 5 pc(s). | <b>2582.100</b> |
| 2 slots | 5 pc(s). | <b>2582.200</b> |
| 4 slots | 5 pc(s). | <b>2582.400</b> |
| 6 slots | 5 pc(s). | <b>2582.600</b> |



### Seal inserts

#### for plastic gland plate, modular and sealing frame, modular

In conjunction with the inlays, the seal inserts allow individual cable entry, even with preassembled cables.

**Material:**

– Plastic

**Colour:**

– RAL 7035

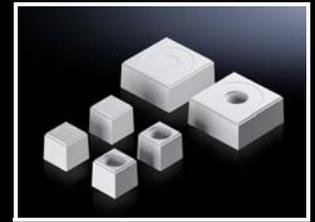


**Accessories:**

– When using as a gland plate, modular: Locking clip for seal inserts, see page 1051

#### Seal inserts, small

| For cable diameter | Packs of  | Model No.       |
|--------------------|-----------|-----------------|
| Solid              | 10 pc(s). | <b>2580.000</b> |
| 3 mm               | 10 pc(s). | <b>2580.003</b> |
| 4 mm               | 10 pc(s). | <b>2580.004</b> |
| 5 mm               | 10 pc(s). | <b>2580.005</b> |
| 6 mm               | 10 pc(s). | <b>2580.006</b> |
| 7 mm               | 10 pc(s). | <b>2580.007</b> |
| 8 mm               | 10 pc(s). | <b>2580.008</b> |
| 9 mm               | 10 pc(s). | <b>2580.009</b> |
| 10 mm              | 10 pc(s). | <b>2580.010</b> |
| 11 mm              | 10 pc(s). | <b>2580.011</b> |
| 12 mm              | 10 pc(s). | <b>2580.012</b> |
| 13 mm              | 10 pc(s). | <b>2580.013</b> |
| 14 mm              | 10 pc(s). | <b>2580.014</b> |



#### Seal inserts, large

| For cable diameter | Packs of | Model No.       |
|--------------------|----------|-----------------|
| Solid              | 5 pc(s). | <b>2580.100</b> |
| 15 mm              | 5 pc(s). | <b>2580.115</b> |
| 16 mm              | 5 pc(s). | <b>2580.116</b> |
| 17 mm              | 5 pc(s). | <b>2580.117</b> |
| 18 mm              | 5 pc(s). | <b>2580.118</b> |
| 19 mm              | 5 pc(s). | <b>2580.119</b> |
| 20 mm              | 5 pc(s). | <b>2580.120</b> |
| 21 mm              | 5 pc(s). | <b>2580.121</b> |
| 22 mm              | 5 pc(s). | <b>2580.122</b> |
| 23 mm              | 5 pc(s). | <b>2580.123</b> |
| 24 mm              | 5 pc(s). | <b>2580.124</b> |
| 25 mm              | 5 pc(s). | <b>2580.125</b> |

### Locking clip

#### for seal inserts

In conjunction with the plastic gland plate, modular, the locking clips ensure the seal inserts are held securely and cannot be accidentally pushed into the enclosure.

**Material:**

– Plastic

| Packs of  | Model No.       |
|-----------|-----------------|
| 10 pc(s). | <b>2583.120</b> |



# Cable management

## Gland plates



### Plastic gland plate

#### with membranes, for AX

Simply pierce the plastic with a sharp object, and pull through the cable.

#### Material:

– Plastic to UL 94-V0

#### Colour:

– Similar to RAL 7035

#### Protection category IP to IEC 60 529:

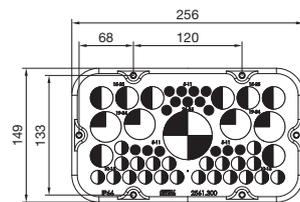
– IP 66 if installed correctly

#### Note:

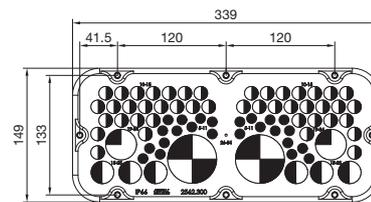
– The applicable size may be taken from the relevant product ordering page

| Model No.           | 2561.300    | 2562.300  | 2563.300                | 2564.300  | 2565.300  | 2566.300  | 2567.300  |
|---------------------|-------------|-----------|-------------------------|-----------|-----------|-----------|-----------|
| Packs of            | 1 pc(s).    | 1 pc(s).  | 1 pc(s).                | 1 pc(s).  | 1 pc(s).  | 1 pc(s).  | 1 pc(s).  |
| Gland plate         | Size 1      | Size 2    | Size 3                  | Size 4    | Size 5    | Size 6    | Size 7    |
| Dimensions W x D mm | 256 x 149   | 339 x 149 | 447 x 149               | 534 x 149 | 301 x 221 | 401 x 221 | 436 x 221 |
|                     | Diameter mm |           | Number of cable entries |           |           |           |           |
| ●                   | 5 – 11      | 15        | 24                      | 36        | 28        | 30        | 30        |
| ◐                   | 10 – 15     | 22        | 44                      | 46        | 48        | 40        | 50        |
| ◑                   | 15 – 25     | 8         | 6                       | 8         | 8         | 5         | 8         |
| ◒                   | 19 – 34     | 4         | 2                       | 2         | 2         | 2         | 2         |
| ◓                   | 26 – 35     | –         | –                       | 4         | 2         | –         | 2         |
| ◔                   | 26 – 54     | 1         | 2                       | 2         | 2         | 2         | 2         |
| ○                   | 50 – 110    | –         | –                       | –         | 1         | 1         | 1         |

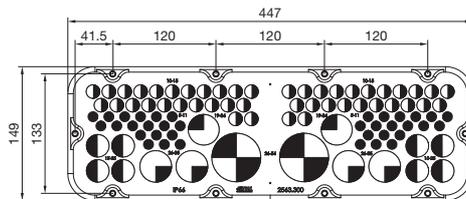
Size 1



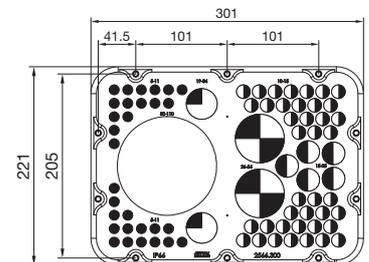
Size 2



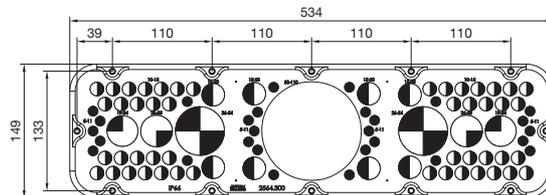
Size 3



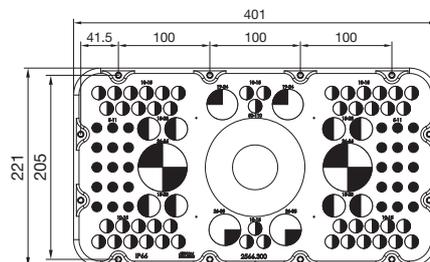
Size 5



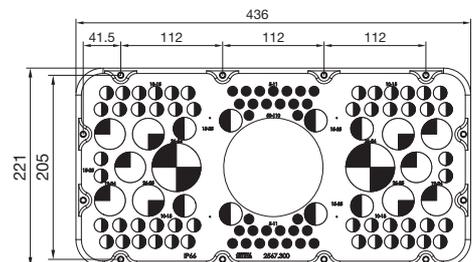
Size 4



Size 6



Size 7



# Cable management

## Gland plates

### Metal gland plate

#### with metric knockouts, for AX

Simply knock out the holes for the cable glands using a screwdriver.

#### Material:

– Sheet steel

#### Colour:

– RAL 7035

#### Protection category IP to IEC 60 529:

– IP 66 if installed correctly

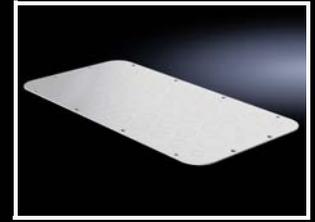
#### Note:

– The applicable size may be taken from the relevant product ordering page



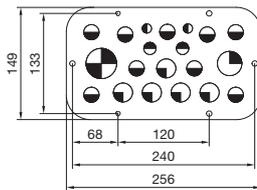
#### Accessories:

– Cable glands made from polyamide or brass, see page 1056

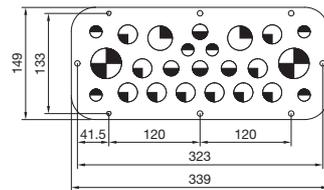


| Model No.           | 2571.100  | 2572.100  | 2573.100                | 2574.100  | 2575.100  | 2576.100  | 2577.100  |    |
|---------------------|-----------|-----------|-------------------------|-----------|-----------|-----------|-----------|----|
| Packs of            | 1 pc(s).  | 1 pc(s).  | 1 pc(s).                | 1 pc(s).  | 1 pc(s).  | 1 pc(s).  | 1 pc(s).  |    |
| Gland plate         | Size 1    | Size 2    | Size 3                  | Size 4    | Size 5    | Size 6    | Size 7    |    |
| Dimensions W x D mm | 256 x 149 | 339 x 149 | 447 x 149               | 534 x 149 | 301 x 221 | 401 x 221 | 436 x 221 |    |
|                     | Diameter  |           | Number of cable entries |           |           |           |           |    |
|                     | M12       | 2         | –                       | 4         | 1         | 2         | 2         | 6  |
|                     | M16       | 2         | 6                       | 4         | 6         | 10        | 10        | 10 |
|                     | M20       | 9         | 4                       | 7         | 8         | 8         | 8         | 8  |
|                     | M25       | 5         | 10                      | 15        | 11        | 10        | 18        | 20 |
|                     | M32       | 1         | 2                       | 2         | 6         | 2         | 4         | 4  |
|                     | M40       | 1         | 2                       | 2         | 4         | 4         | 4         | 4  |

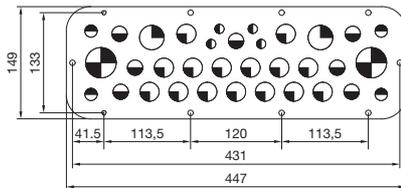
Size 1



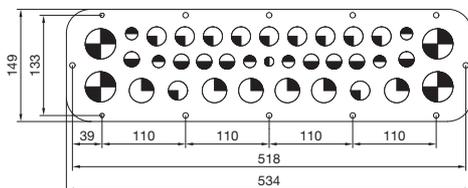
Size 2



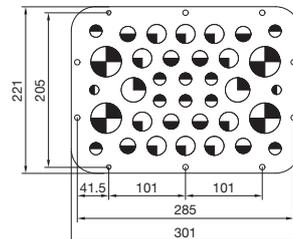
Size 3



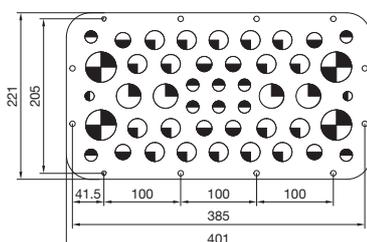
Size 4



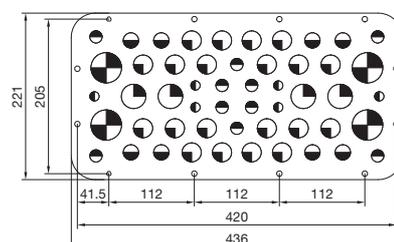
Size 5



Size 6

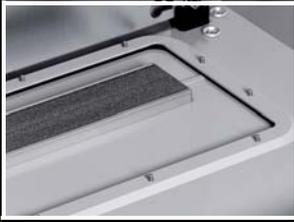


Size 7



# Cable management

## Gland plates



### Gland plate

#### with foam rubber cable clamp strip, for AX

For feeding through pre-fabricated cables when the gland plate has already been fitted to the enclosure. Split gland plates can be sealed using movable plates with a foam rubber cable clamp strip.

#### Material:

– Gland plate: Sheet steel

#### Colour:

– RAL 7035

| Gland plate size | Dimensions mm | Packs of | Model No.       |
|------------------|---------------|----------|-----------------|
| 5                | 301 x 221     | 1 pc(s). | <b>2565.400</b> |
| 6                | 401 x 221     | 1 pc(s). | <b>2566.400</b> |
| 7                | 436 x 221     | 1 pc(s). | <b>2567.400</b> |



### Metal gland plate

#### with metric knockouts, for KX

Simply knock out the holes for the cable glands using a screwdriver.

#### Material:

– Sheet steel

#### Colour:

– RAL 7035

#### Protection category IP to IEC 60 529:

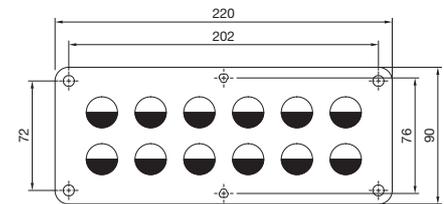
– IP 55 if installed correctly

| Diameter | Packs of | Model No.       |
|----------|----------|-----------------|
| M20      | 1 pc(s). | <b>1581.200</b> |



#### Accessories:

– Cable glands made from polyamide or brass, see page 1056



### Gland plate

#### for metric cable glands, for EL

Folded gland plate with foamed-in seal and pre-punched, knock-out holes for metric cable glands M12, M20, M25, M32, M40.

#### Material:

– Sheet steel, 1.5 mm

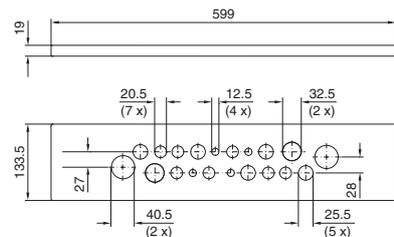
#### Colour:

– RAL 7035

#### Protection category IP to IEC 60 529:

– IP 55

| Width mm | Depth mm | Cable entry (quantity x Ø)                          | Packs of | Model No.       |
|----------|----------|-----------------------------------------------------|----------|-----------------|
| 599      | 133.5    | 4 x M12<br>7 x M20<br>5 x M25<br>2 x M32<br>2 x M40 | 1 pc(s). | <b>7705.235</b> |



# Cable management

## Gland plates

### Gland plate

#### with brush insert, for EL

Folded gland plate with foamed-in seal and plastic brush inserts for simple cable entry.

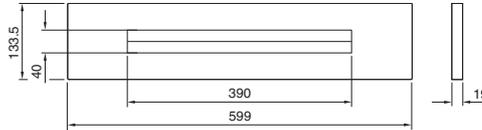
#### Material:

- Sheet steel, 1.5 mm

#### Colour:

- RAL 7035

| Packs of | Model No. |
|----------|-----------|
| 1 pc(s). | 7705.035  |



### Brush strip

For individual installation of enclosure panels, gland plates and panels. Cut-outs for cable routing at any position in the side panel, rear panel, doors, roof and base plate may be finished off attractively by simply attaching the brush strip.

#### Material:

- Plastic, UL 94-HB

| Packs of | Model No. |
|----------|-----------|
| 2 m      | 7072.200  |

#### Technical specifications:

- For metal thickness: 0.6 – 1.5 mm
- Bristle length: 30 mm
- Plastic sheath: 18 mm
- Snap-on surface: 10 mm
- Maximum cut-out height: 38 mm



### Brush strip, super-airtight

For individual installation of enclosure panels, gland plates and panels. Cut-outs for cable routing at any position in the side panel, rear panel, doors, roof and base plate.

These special brush strips may be used to create airtight entries for cable sections and conductors. The brush strips arranged in an offset configuration ensure good sealing from the routed cables even with large quantities of cables. In this way, unwanted flow losses may be reduced to a minimum.

| Packs of | Model No. |
|----------|-----------|
| 2 x 1 m  | 7825.375  |

#### Technical specifications:

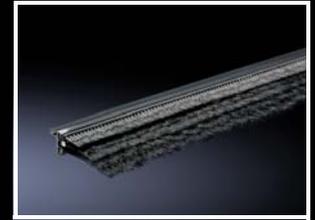
- For metal thickness: 1.5 – 2 mm
- Bristle length: 58 mm
- Plastic sheath: 14 mm
- Snap-on surface: 11.5 mm
- Cut-out width: 88 – 90 mm

#### Material:

- Plastic, fire protection to UL 94-HB

#### Supply includes:

- 1 brush strip right-hand version
- 1 brush strip left-hand version



# Cable management

## Cable glands



### Cable gland, brass

**Benefits:**

- Because the gland and lock nut are sold together in a single pack, this saves additional ordering and storage
- Clamping membranes for even tightening and strain relief to protect the cables

**Material:**

- Brass
- Seal: CR/NBR

**Surface finish:**

- Nickel-plated

**Protection category IP to IEC 60 529:**

- IP 68 (5 bar, 30 min.)

**Approvals:**

- VDE, UR, cUR

| Size      | Packs of  | Model No.       |
|-----------|-----------|-----------------|
| M12 x 1.5 | 15 pc(s). | <b>2411.801</b> |
| M16 x 1.5 | 15 pc(s). | <b>2411.811</b> |
| M20 x 1.5 | 10 pc(s). | <b>2411.821</b> |
| M25 x 1.5 | 10 pc(s). | <b>2411.831</b> |
| M32 x 1.5 | 5 pc(s).  | <b>2411.841</b> |
| M40 x 1.5 | 4 pc(s).  | <b>2411.851</b> |
| M50 x 1.5 | 2 pc(s).  | <b>2411.861</b> |
| M63 x 1.5 | 1 pc(s).  | <b>2411.871</b> |

 **Possible alternative:**

- Cable gland Hygienic Design, see page 1057



### Cable gland, polyamide

**Benefits:**

- Because the gland and lock nut are sold together in a single pack, this saves additional ordering and storage
- Clamping membranes for even tightening and strain relief to protect the cables

**Material:**

- Polyamide 6
- Seal: CR

**Colour:**

- RAL 7035

**Protection category IP to IEC 60 529:**

- IP 68 (5 bar, 30 min.)

**Approvals:**

- VDE, UL, cUL, CSA

| Size      | Packs of  | Model No.       |
|-----------|-----------|-----------------|
| M12 x 1.5 | 50 pc(s). | <b>2411.601</b> |
| M16 x 1.5 | 50 pc(s). | <b>2411.611</b> |
| M20 x 1.5 | 50 pc(s). | <b>2411.621</b> |
| M25 x 1.5 | 25 pc(s). | <b>2411.631</b> |
| M32 x 1.5 | 15 pc(s). | <b>2411.641</b> |
| M40 x 1.5 | 5 pc(s).  | <b>2411.651</b> |
| M50 x 1.5 | 5 pc(s).  | <b>2411.661</b> |
| M63 x 1.5 | 3 pc(s).  | <b>2411.671</b> |



### EMC cable gland

see page 1030

# Cable management

## Cable glands

### Cable gland HD

**More compact design and the lock nut is included with the supply.**

**Applications:**

- Manufacturing and packaging of foodstuffs etc.
- Clean room technology (e.g. pharmaceuticals)
- Biotechnology
- Chemical industry

**Benefits:**

- Smooth, solid exterior surfaces effectively prevent the depositing of harmful micro-organisms
- Much easier, therefore cheaper, cleaning compared with conventional cable glands

**Material:**

- Cap nut: Stainless steel 1.4305 (AISI 303)
- Seal: Compliant with FDA 21 CFR 177.2600

**Protection category IP to IEC 60 529:**

- IP 69
- IP X8 (5 bar, 30 min.)

**Supply includes:**

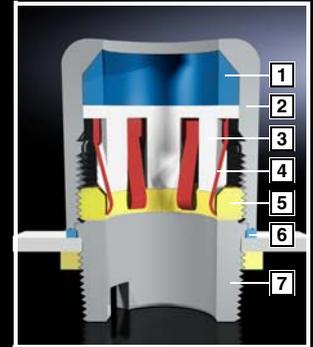
- HD cable gland
- Lock nut

**Standard version**

| Size      | Cable diameter mm | Packs of | Model No.       |
|-----------|-------------------|----------|-----------------|
| M12 x 1.5 | 3 – 6.5           | 5 pc(s). | <b>2410.001</b> |
| M16 x 1.5 | 5 – 10            | 5 pc(s). | <b>2410.011</b> |
| M20 x 1.5 | 6 – 12            | 5 pc(s). | <b>2410.021</b> |
| M25 x 1.5 | 12 – 17           | 5 pc(s). | <b>2410.031</b> |

**EMC version**

| Size      | Cable diameter mm | Packs of | Model No.       |
|-----------|-------------------|----------|-----------------|
| M16 x 1.5 | 5 – 10            | 5 pc(s). | <b>2410.111</b> |
| M20 x 1.5 | 6 – 12            | 5 pc(s). | <b>2410.121</b> |
| M25 x 1.5 | 12 – 17           | 5 pc(s). | <b>2410.131</b> |

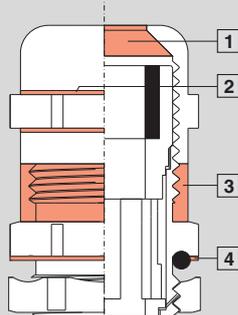


- 1 Seal
- 2 Cap nut
- 3 Gripper jaws
- 4 Shield spring (EMC version only)
- 5 Clamping ring
- 6 Enclosure seal
- 7 Base with locator for assembly tool

**Why use hygienic cable glands?**

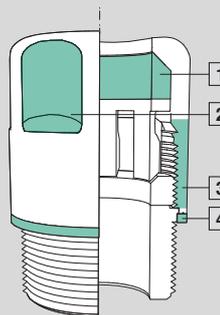
**Critical points with conventional solutions**

- 1 Cable entry in front of seal
- 2 No minimum radii on the hexagon
- 3 External threads
- 4 Gap caused by O-ring on the enclosure surface



**Hygienic design features**

- 1 Seal directly at the cable entry
- 2 Compliance with minimum radii on the hexagon
- 3 No external threads
- 4 Flush termination between the cap nut and the enclosure



### Assembly tool

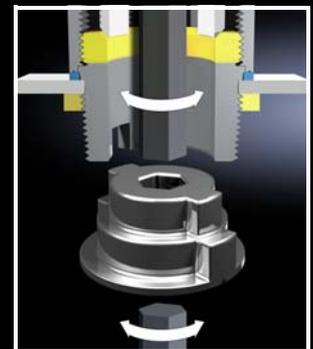
**for cable gland HD**

For attaching HD cable glands in an internal thread or using lock nuts. This can be achieved either from the inside or from the outside using an Allen key.

**Supply includes:**

- 1 pc(s). = Adaptor for sizes from M12 – M25

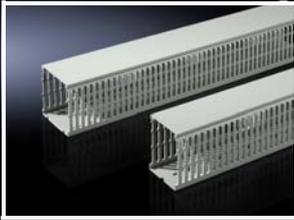
| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>2410.290</b> |



System accessories

# Cable management

## Cable routing inside the enclosure



### Cable duct

- With special DIN punchings for direct mounting on the enclosure section or on surfaces such as mounting plates.
- If the mounting plate is installed flush with the enclosure frame at the rear (installation position  $\pm 0$  mm), the horizontally mounted cable ducts are aligned with the cable ducts mounted on the enclosure section.
- Cable duct 50 mm wide for individually sited VX25 enclosures with side panel on the vertical section, on the left and right adjacent to the mounting plate.
- Cable duct 100 mm for mounting on the vertical enclosure frame with bayed enclosures.

#### Technical specifications:

- Depth: 80 mm
- Length: 2000 mm, may be cut to length
- Bar width: 5.5 mm
- Slot width: 4.5 mm

#### Material:

- Hard PVC
- Flame-resistant, self-extinguishing
- Temperature resistant to +60 °C

| Width (B) mm | Packs of  | Model No.       |
|--------------|-----------|-----------------|
| 30           | 24 pc(s). | <b>8800.750</b> |
| 40           | 20 pc(s). | <b>8800.751</b> |
| 50           | 18 pc(s). | <b>8800.755</b> |
| 60           | 18 pc(s). | <b>8800.752</b> |
| 80           | 12 pc(s). | <b>8800.753</b> |
| 100          | 12 pc(s). | <b>8800.754</b> |

#### Colour:

- Similar to RAL 7030



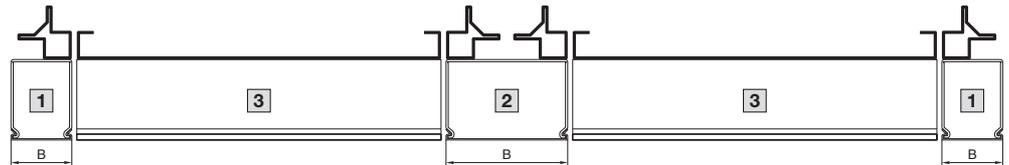
#### Accessories:

- Metal multi-tooth screw 5.5 x 13 mm, see page 1004
- Isolator cap, see page 1058

1 = W 50 mm

2 = W 100 mm

3 = W 30 to 100 mm



### Isolator cap

#### for screw head

To isolate screw heads within the cable duct.

#### Material:

- Plastic

| Packs of   | Model No.       |
|------------|-----------------|
| 100 pc(s). | <b>8800.770</b> |

# Cable management

## Cable routing inside the enclosure

### Cable clamp rail

#### Right-angle section for VX, VX SE, PC, TP, VX base/plinth

For strain relief with cable entry. Depth-variable mounting on a 25 mm pitch pattern on the horizontal enclosure section or in the base/plinth.

#### Material:

– Steel

#### Surface finish:

– Zinc-plated

#### Supply includes:

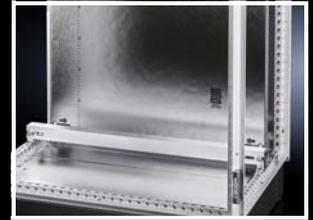
– Assembly parts

| Enclosure width mm | Packs of | Model No.       |
|--------------------|----------|-----------------|
| 400                | 2 pc(s). | <b>8619.400</b> |
| 600                | 2 pc(s). | <b>8619.410</b> |
| 800                | 2 pc(s). | <b>8619.420</b> |
| 1000               | 2 pc(s). | <b>8619.430</b> |
| 1200               | 2 pc(s). | <b>8619.440</b> |
| 1600               | 2 pc(s). | <b>8619.450</b> |
| 1800               | 2 pc(s). | <b>8619.460</b> |



#### Accessories:

– Base/plinth installation bracket, see page 885



### Cable clamp

#### for cable clamp rails

For fastening the cables to the cable clamp rails.

#### Material:

– Sheet steel

#### Surface finish:

– Zinc-plated

#### Supply includes:

– Plastic insert

| For cable diameter mm | Packs of  | Model No.       |
|-----------------------|-----------|-----------------|
| 6 – 12                | 25 pc(s). | <b>2350.000</b> |
| 12 – 16               | 25 pc(s). | <b>2351.000</b> |
| 14 – 18               | 25 pc(s). | <b>2352.000</b> |
| 18 – 22               | 25 pc(s). | <b>2353.000</b> |
| 22 – 26               | 25 pc(s). | <b>2354.000</b> |
| 26 – 30               | 25 pc(s). | <b>2355.000</b> |
| 30 – 34               | 25 pc(s). | <b>2356.000</b> |
| 34 – 38               | 25 pc(s). | <b>2357.000</b> |
| 38 – 42               | 25 pc(s). | <b>2358.000</b> |
| 42 – 46               | 25 pc(s). | <b>2359.000</b> |
| 46 – 50               | 25 pc(s). | <b>2360.000</b> |



#### Possible alternative:

– Rail for EMC shielding bracket and strain relief, see page 1029



### Cable clamp rail

#### C rail, for mounting plates for VX, VX SE, TP

For strain relief with cable entry. The length of the cable clamp rail is tailored to the width of the mounting plate. The mounting bracket included with the supply supports three different installation situations on the mounting plate:

- 1 Straight, at a distance of 23 mm from the mounting plate
- 2 Straight, at a distance of 10 mm from the mounting plate
- 3 Tilted towards the mounting plate

#### Material:

– Sheet steel

#### Surface finish:

– Zinc-plated

#### Supply includes:

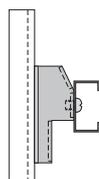
– Two mounting brackets and assembly screws

| For enclosure width mm | Length mm | Packs of | Model No.       |
|------------------------|-----------|----------|-----------------|
| 600                    | 499       | 1 pc(s). | <b>5001.080</b> |
| 800                    | 699       | 1 pc(s). | <b>5001.081</b> |
| 1000                   | 899       | 1 pc(s). | <b>5001.082</b> |
| 1200                   | 1099      | 1 pc(s). | <b>5001.083</b> |

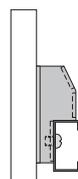


#### Accessories:

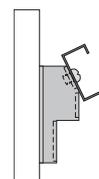
– Cable clamp for C rails, see page 1060



1



2



3



# Cable management

## Cable routing inside the enclosure



### Cable clamping bracket

For installation in command panels with mounting cut-out □ 120 x 65 mm and Ø 130 mm. Cable clamping optionally via:

- Cable clamps
  - or
  - Cable ties 2597.000
  - Standard commercially available cable ties
- Bracket height = 25 mm with fitted C rail 40 mm

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

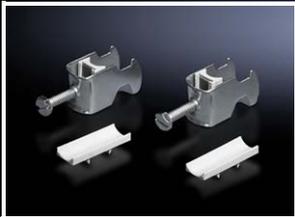
**Supply includes:**

- C rail and assembly screws

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>6052.000</b> |

**+ Accessories:**

- Cable clamp, see page 1060
- Cable ties, see page 1061



### Cable clamp

#### for C rail, combination rail

For attaching cables to the C rail.

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Plastic insert

| For cable diameter mm | Packs of  | Model No.       |
|-----------------------|-----------|-----------------|
| 6 – 14                | 25 pc(s). | <b>7077.000</b> |
| 12 – 18               | 25 pc(s). | <b>7078.000</b> |
| 18 – 22               | 25 pc(s). | <b>7097.000</b> |
| 22 – 26               | 25 pc(s). | <b>7097.220</b> |
| 26 – 30               | 25 pc(s). | <b>7097.260</b> |
| 30 – 34               | 25 pc(s). | <b>7097.300</b> |
| 34 – 38               | 25 pc(s). | <b>7097.340</b> |
| 38 – 42               | 25 pc(s). | <b>7098.000</b> |
| 42 – 56               | 25 pc(s). | <b>7098.100</b> |
| 56 – 64               | 25 pc(s). | <b>7099.000</b> |

**+ Accessories:**

- C rail, see from page 996
- Combination rail, see page 1063



### Cable conduit and cable conduit holder

For secure cable routing e.g. from the enclosure or mounting plate to the door. An attachment facility for standard commercially available cable ties is provided on the cable conduit holder, so that cables may be attached upon entry to/exit from the cable conduit.

**Material:**

- Cable conduit: Polyethylene
- Cable conduit holder: Polyamide

**Cable conduit**

| Internal Ø mm | Packs of | Model No.       |
|---------------|----------|-----------------|
| 16            | 25 m     | <b>2595.000</b> |
| 29            | 25 m     | <b>2589.000</b> |
| 36            | 25 m     | <b>2596.000</b> |
| 48            | 25 m     | <b>2590.000</b> |

**Cable conduit holder**

| For cable conduit Ø mm | Packs of  | Model No.       |
|------------------------|-----------|-----------------|
| 16                     | 20 pc(s). | <b>2593.000</b> |
| 29                     | 20 pc(s). | <b>2591.000</b> |
| 36                     | 20 pc(s). | <b>2594.000</b> |
| 48                     | 20 pc(s). | <b>2592.000</b> |

**! Also required:**

- For the installation in AX: Rail for interior installation AX, see page 989 or punched section with mounting flange 14 x 39 mm, see page 952/990



# Cable management

## Cable routing inside the enclosure

### Cable attachment

For professional, secure fastening of cables and conduits.

For fastening:

- Slide into the punched rail 23 x 23 mm,
- Screw-fasten onto the round punchings of the enclosures, as well as all punched rails and punched sections

#### Material:

- Polyamide

#### Note:

- As the attachments are bayable, several attachments, even those of different sizes, can be assembled using just 2 screws

| For cable diameter from – to mm | Packs of  | Model No.       |
|---------------------------------|-----------|-----------------|
| 6 – 9                           | 50 pc(s). | <b>4319.090</b> |
| 9 – 12                          | 50 pc(s). | <b>4319.120</b> |
| 12 – 16                         | 50 pc(s). | <b>4319.160</b> |
| 16 – 20                         | 50 pc(s). | <b>4319.200</b> |



#### Also required:

- Posidrive raised countersunk screw M5 x 12 mm, 2488.000, for screw-fastening to the round system punchings, see page 1004



#### Accessories:

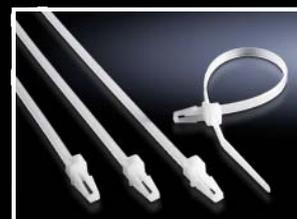
- Punched rail 23 x 23 mm, see page 994



### Cable tie

The super-fast solution for fastening cables to the enclosure profile or mounting system parts. Simply clip into the round system punchings.

| Length mm | Packs of   | Model No.       |
|-----------|------------|-----------------|
| 150       | 100 pc(s). | <b>2597.000</b> |



### Nylon loop

With the nylon loop, secured cables are easily released, allowing individual cables to be added or removed. Ideal for sensitive data cables (fibre-optic/Cu), as it avoids indentations on the cable sheathing. In addition, the nylon loop may be screw-fastened to the round system punchings or attached using a quick-release fastener.

#### Colour:

- Black

#### Supply includes:

- Quick-release fasteners

| Width mm | Length mm | Max. cable diameter mm | Packs of  | Model No.       |
|----------|-----------|------------------------|-----------|-----------------|
| 20       | 130       | 30                     | 10 pc(s). | <b>7072.220</b> |
| 20       | 200       | 50                     | 10 pc(s). | <b>7072.230</b> |
| 20       | 300       | 90                     | 10 pc(s). | <b>7072.240</b> |



#### Also required:

- Screw 2486.600 for screw-fastening to the round system punchings, see page 1004



### Nylon tape

For tidy cable routing. Supplied on a reel for cutting to the required length.

Unlike cable ties, nylon tape

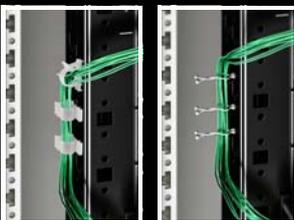
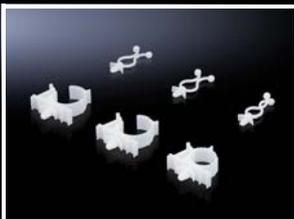
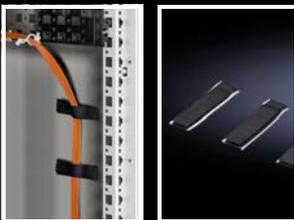
- protects the cable sheathing
- is easily reopened and
- is reusable

| Length mm | Width mm | Packs of | Model No.       |
|-----------|----------|----------|-----------------|
| 5000      | 16       | 1 pc(s). | <b>2203.400</b> |



# Cable management

## Cable routing inside the enclosure



### Nylon tape holder

- For simple, fast cable attachment
- Tool-free mounting in the system punchings with 10.5 x 12.5 mm, with a quarter rotation
- Direct use on the horizontal VX frame section, on the support strips and mounting angles of the VX IT 482.6 mm (19") interior installation, on the cable route or on punched sections with mounting flanges
- Length of nylon tape: 400 mm

**Material:**

- Plastic

**Supply includes:**

- 10 nylon tapes
- 10 holders

| Packs of  | Model No.       |
|-----------|-----------------|
| 10 pc(s). | <b>5502.155</b> |

### Nylon loop cable holder

**Self-adhesive**

Universally suitable for use in all network enclosures and server racks, wall-mounted enclosures, mounting plates and gland plates.

**Material:**

- Woven polyamide 6.6

**Colour:**

- Black

| Size length x width mm | Packs of  | Model No.       |
|------------------------|-----------|-----------------|
| 70 x 16                | 10 pc(s). | <b>7111.350</b> |

### Snap-in cable routing

**for clipping into the system punchings**

Cable routing suitable for universal use, for tool-free, fast assembly, in two variants:

For locking

- User-friendly opening for cable management via locating points
- For cable diameters 14 – 19 mm
- For system punchings 6.2 mm

For twisting

- User-friendly opening for cable management
- For cable diameters 10.2 – 12.7 mm
- For system punchings 4.7 mm

**Material:**

- Polyamide 6.6, self-extinguishing to UL 94-V2

**Colour:**

- Natural

| Version                                   | Packs of  | Model No.       |
|-------------------------------------------|-----------|-----------------|
| For locking, for system punchings 6.2 mm  | 10 pc(s). | <b>7111.300</b> |
| For twisting, for system punchings 4.7 mm | 10 pc(s). | <b>7111.310</b> |

# Cable management

## Cable routing inside the enclosure

### Combination rail

#### for VX IT

Combination of a C rail for cable clamping with cable clamps and a cable guide rail with T-heads for cable routing. The cables can optionally be secured to the combination rail with cable clamps, cable ties or velcro fasteners to be relieved of strain.

#### Applications:

- For cable routing and strain relief of routed cables on the VX frame structure

#### Benefits:

- May be installed on either the outside or inside of the enclosure frame

#### Installation options:

- Direct screw-fastening between the vertical uprights of the enclosure frame

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| For enclosures |          | Packs of | Model No.       |
|----------------|----------|----------|-----------------|
| Width mm       | Depth mm |          |                 |
| 600            | 600      | 4 pc(s). | <b>5302.020</b> |
| 800            | 800      | 4 pc(s). | <b>5302.021</b> |
| 1000           | 1000     | 4 pc(s). | <b>5302.022</b> |
| 1200           | 1200     | 4 pc(s). | <b>5302.025</b> |



#### Accessories:

- Cable ties, see page 1061
- Nylon loop, see page 1061
- Angle bracket for combination rail, see page 1063



### Angle bracket

#### for combination rail

For variable mounting of combination rails between two punched sections with mounting flanges in the enclosure interior.

#### Applications:

- Cascaded cable routing

#### Benefits:

- Simple clip attachment or optionally screw-fastened

| Packs of | Model No.       |
|----------|-----------------|
| 8 pc(s). | <b>5302.038</b> |



### Cable clamp rail, depth-variable

#### for VX IT, TE

For cable routing on the enclosure frame and for strain relief of the routed cables. The cables can be attached to the cable clamp rails with cable ties or velcro fasteners.

The cable clamp rails can be located horizontally at the rear directly onto a 482.6 mm (19") mounting level or in the enclosure depth between two mounting levels. An additional screw fastening secures the unit.

The depth variability of the rails allows their length to be flexibly adapted to the given mounting distance between the two 482.6 mm (19") mounting levels.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| Mounting dimension <sup>1)</sup> mm | Packs of | Model No.       |
|-------------------------------------|----------|-----------------|
| 325 - 575                           | 1 pc(s). | <b>5302.044</b> |

<sup>1)</sup> Mounting dimensions + 152 mm = distance between 482.6 mm (19") levels



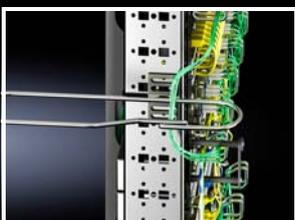
#### Accessories:

- Cable ties, see page 1061
- Nylon loop, see page 1061



# Cable management

## Cable routing inside the enclosure



### Cable manager

**Applications:**

- For vertical cable routing and strain relief with network and server applications

**Benefits:**

- Simple assembly with tool-free quick-release fastening
- Alternatively suitable for screw-fastening
- Integral multifunctional punching for attaching cable routing components
- Integral mounting holes for fixing the PDUs in a 7 U pitch pattern via a keyhole recess

**Material:**

- Plastic, UL 94-V0

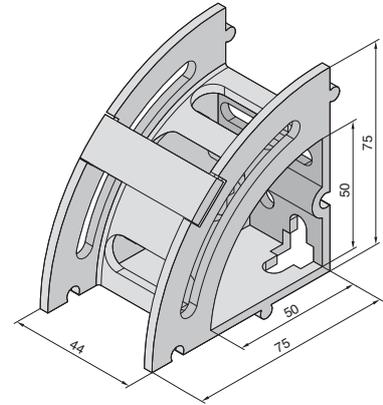
**Colour:**

- RAL 9005

**Supply includes:**

- Mounting clips and assembly parts

|          | Packs of  | Model No.       |
|----------|-----------|-----------------|
| Maxi-kit | 20 pc(s). | <b>5502.405</b> |



### Cable shunting ring

For flexible, system-compatible cable routing at the side of the 482.6 mm (19") mounting angles.

**Material:**

- Steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts

| Dimensions mm | Packs of  | Model No.       |
|---------------|-----------|-----------------|
| 125 x 85      | 10 pc(s). | <b>7111.900</b> |
| 125 x 65      | 10 pc(s). | <b>7111.000</b> |
| 85 x 43       | 10 pc(s). | <b>7112.000</b> |

### Shunting ring

To accommodate large quantities of cables. Shunting ring for side attachment to 482.6 mm (19") sections in 800 mm wide network enclosures. The ring is attached asymmetrically providing approx.

110 mm free space in front of the 482.6 mm (19") level. This allows even large quantities of cables to be effectively managed.

**Material:**

- Steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts

| Dimensions mm | Packs of | Model No.       |
|---------------|----------|-----------------|
| 330 x 90/70   | 4 pc(s). | <b>7220.600</b> |

# Cable management

## Cable routing inside the enclosure

### Fibre-optic shunting rings

Fibre-optic shunting or jumper cables can be inserted into the grooves of the inner body. A rubber ring holds different fibre-optic cables up to Ø 4.5 mm. Strain relief and bending radius are ensured.

Length: 120 mm

**Material:**

- 2K plastic

**Colour:**

- Exterior: RAL 7035
- Interior: Black

**Supply includes:**

- 2 rubber rings
- Baying kit
- Assembly parts

**Assembly:**

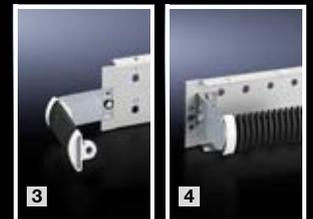
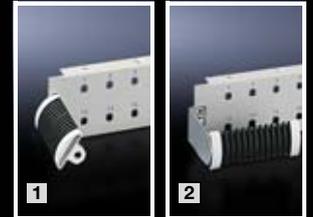
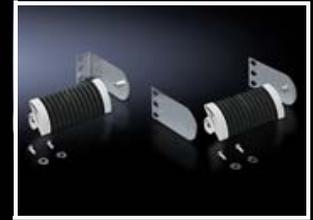
The supplied mounting brackets are suitable for universal use; the fibre-optic cables can be routed to the patch panel in all directions in various mounting positions:

- 1 At the side, directly on the patch panel
- 2 In front of the patch panel
- 4 At the side next to the patch panel
- 4 Behind the patch panel

| Packs of | Model No. |
|----------|-----------|
| 2 pc(s). | 7116.500  |

**Possible alternative:**

- Fibre-optic cable management panel, 1 U, see page 1065



### Fibre-optic cable management panel , 1 U

482.6 mm (19")

The four fibre-optic cable shunting rings integrated into the front permit optimum management of individual fibres while allowing for minimum baying radii.

**Material:**

- Panel: Sheet steel
- Ring: 2K plastic

**Colour:**

- Panel: RAL 9005
- Cable shunting rings on the outside: RAL 7035, Body: RAL 9005

| U | Packs of | Model No. |
|---|----------|-----------|
| 1 | 1 pc(s). | 5302.203  |

**Possible alternative:**

- Fibre-optic cable shunting ring, see page 1065



### System supports for cable routes

for VX, VX IT

The depth-variable support system may be attached to all 800 – 1200 mm deep VX enclosures with external screw-fastening of the roof plate. The integral system punchings, for screws or captive nuts, support the attachment of most common cable route systems.

- May be combined with VX IT fan mounting plate
- In combination with punched rail, suitable for accommodating additional cable routing rails or pipelines.
- Support height: 102 mm

**Material:**

- Sheet steel

**Surface finish:**

- Powder-coated

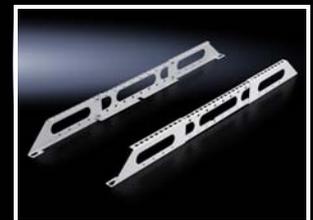
**Colour:**

- RAL 7035

| Packs of | Model No. |
|----------|-----------|
| 2 pc(s). | 7831.472  |

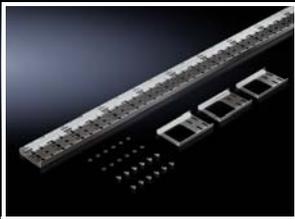
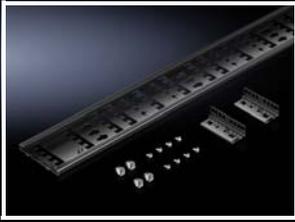
**Accessories:**

- Metal multi-tooth screws 5.5 x 13 mm, 2486.600, see page 1004



# Cable management

## Cable routing inside the enclosure



### Cable route for VX, VX IT

#### Applications:

- For vertical cable routing and strain relief with network and server applications

#### Installation options:

- On the VX IT frame between the roof and base frames, all-round
- In 800 mm wide VX IT racks, alternatively, screw-fastening between the upper and lower depth stays is supported

#### Benefits:

- Simple assembly with tool-free quick-release fastening
- Alternatively suitable for screw-fastening
- Integral multifunctional punching for attaching cable routing components
- Integral mounting holes for fixing the PDUs in a 7 U pitch pattern via a keyhole recess

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 9005

#### Supply includes:

- Assembly parts

| Width mm | Height mm   | Packs of | Model No.       |
|----------|-------------|----------|-----------------|
| 145      | 2000        | 1 pc(s). | <b>5302.120</b> |
| 145      | 2200        | 1 pc(s). | <b>5302.122</b> |
| 265      | 2000 – 2200 | 1 pc(s). | <b>5302.322</b> |



#### Accessories:

- Cable ties, see page 1061
- Nylon tape, see page 1061
- Nylon tape holder, see page 1062
- Wall-mounted enclosures, see page 1064
- Cable routing bars, see page 1067

### Cable route

#### for TE

For vertical cable entry at the side of the 482.6 mm (19") mounting frame for TE, independently from the enclosure frame.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| Width mm | Height mm | Packs of | Model No.       |
|----------|-----------|----------|-----------------|
| 100      | 1700      | 1 pc(s). | <b>7000.685</b> |

### Surplus cable holder

For fastening at the rear area of the enclosure, or at the side of network enclosures. The surplus cable holder can be attached to all depth stays or to punched sections and rails with a 25 mm pitch pattern – mounting dimension 150 mm.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Colour:

- RAL 7035

#### Supply includes:

- Assembly parts

| W x H x D mm   | Packs of | Model No.       |
|----------------|----------|-----------------|
| 280 x 151 x 75 | 1 pc(s). | <b>7220.500</b> |

# Cable management

## Cable routing 19"

### Cable routing bars, 482.6 mm (19") attachment

For structured routing of entire cable bundles, the cable bars may be secured to a variety of different positions inside the enclosure.

**Applications:**

- For horizontal cable routing within the distributor level. Thanks to their open mounting holes, they can also be retrospectively slotted onto the 482.6 mm (19") system punchings of the mounting level at any time and secured with the existing mounting screws of the installed components.

**Material:**

- Support: Sheet steel
- Cable routing bars, connection combs: Plastic UL 94-V0

**Colour:**

- RAL 9005

**Supply includes:**

- Cable routing bars
- Connection combs

**Note:**

- Size of individual chambers (WxD) approx. 34 x 100 mm

| Units U | Number of connection combs | Packs of  | Model No.       |
|---------|----------------------------|-----------|-----------------|
| 4       | 2                          | 4 pc(s).  | <b>7111.224</b> |
| 1       | 8                          | 10 pc(s). | <b>7111.214</b> |



### Cable routing bars for universal use

For structured routing of entire cable bundles, the cable bars may be secured to a variety of different positions inside the enclosure.

**Applications:**

- All-round attachment for universal use for vertical and horizontal cable routing inside the enclosure or within the distributor level.

**Material:**

- Support: Sheet steel
- Cable routing bars, connection combs: Plastic UL 94-V0

**Colour:**

- RAL 9005

**Supply includes:**

- Cable routing bars
- Connection combs

**Note:**

- Size of individual chambers (WxD) approx. 34 x 100 mm

| Units U | Number of connection combs | Packs of  | Model No.       |
|---------|----------------------------|-----------|-----------------|
| 4       | 2                          | 4 pc(s).  | <b>7111.222</b> |
| 1       | 5                          | 10 pc(s). | <b>7111.212</b> |



# Cable management

## Cable routing 19"



### Cable duct

#### for VX IT, TE

Cable duct for concealed cable routing. Convenient access to the cabling at any time via the hinged duct cover, optionally removable. The duct has cable entry options to the enclosure interior and through the rear panel of the duct. The cable retaining bars enclosed with the duct are snap-mounted onto the cable fingers of the duct with variable depth to support cable routing. Alternatively, the cable duct may also be screw-fastened. For optimum air routing, it may be combined with the brush kit for VX IT.

#### Benefits:

- Simple assembly with tool-free quick-release fastening
- High packing density due to U-based cable routing
- Suitable for back-to-back baying
- Cable duct may be used as a shielding element to prevent air short-circuits within cold aisle containment
- Lockable cable glands, may be fitted with installation components on the 1 U mounting standard

#### Material:

- Sheet steel
- Plastic to UL 94-HB

#### Colour:

- RAL 9005

#### Supply includes:

- Cable duct
- 2 covers
- 14 cable fingers, 6 U
- 10 cable retaining bars
- Assembly parts



#### Accessories:

- Brush kit, see page 1068
- Cable management panel with brush strip, see page 1074
- Blanking panel, 482.6 mm (19"), see page 1093

| For enclosure                 | For enclosure width mm | For enclosure height mm | Units U | Packs of | Model No.       |
|-------------------------------|------------------------|-------------------------|---------|----------|-----------------|
| VX IT<br>TE 8000<br>Data Rack | 800                    | 1800<br>2000<br>1900    | 38      | 1 pc(s). | <b>5302.051</b> |
| VX IT<br>Data Rack            | 800                    | 2000<br>2122            | 42      | 1 pc(s). | <b>5302.052</b> |
| VX IT                         | 800                    | 2200                    | 47      | 1 pc(s). | <b>5302.053</b> |



### Brush kit

#### for cable duct VX IT

For all-round shielding of the 482.6 mm (19") mounting level and targeted routing of the cold air flow to the installed equipment.

#### Applications:

- The brush kit is designed for combining two vertical cable ducts on both sides of the 482.6 mm (19") mounting level. The brush kit may be combined with a cable duct and used as an alternative to the air baffle plate.
- A combination with air baffle plate and cable duct is also possible as partial installation

#### Benefits:

- Simple assembly with tool-free quick-release fastening
- Alternatively suitable for screw-fastening
- Tailored to the maximum enclosure height 47 U for cutting to the required individual length

#### Functions:

- The brush kit consists of vertical brush strips for the area between the cable duct and side panel as well as horizontal air baffle plates with brush strips for sealing in the roof and floor area on the 482.6 mm (19") mounting level

#### Installation options:

- 482.6 mm (19") mounting angles, standard
- 482.6 mm (19") mounting angles, dynamic

#### Material:

- Brush strip: Plastic, UL 94-V0
- Bristles: Plastic, UL 94-HB
- Air baffle plates: Sheet steel, spray finished

| For enclosure width mm | Bristle length mm | Packs of | Model No.       |
|------------------------|-------------------|----------|-----------------|
| 800                    | 48                | 1 pc(s). | <b>5302.036</b> |

#### Colour:

- RAL 9005

#### Supply includes:

- 2 brush strips, vertical
- 2 air baffle plates, horizontal, including brush strip
- Assembly parts



#### Also required:

- Blanking panel, 482.6 mm (19"), see page 1093



#### Assembly instruction:

- When using the cable duct combined with the brush kit as an air routing component, the cable entry openings in the cable duct must be closed or covered with a cable management panel with brush strip



#### Accessories:

- Cable management panel with brush strip, see page 1074

# Cable management

## Cable routing 19"

### Cable finger

#### for VX IT

For structured cable routing on the 482.6 mm (19") mounting level in 1 U increments.

#### Benefits:

- Simple, tool-free installation by snap-mounting directly into the 482.6 mm (19") mounting angle

#### Installation options:

- Installation is possible both on the front and on the side of the mounting angles at the front and rear

#### Material:

- Plastic to UL 94-V0

#### Colour:

- RAL 9005

#### Note:

- Cable routing in conjunction with air baffle plates is supported

| Units U | Design                                                      | Packs of  | Model No.       |
|---------|-------------------------------------------------------------|-----------|-----------------|
| 6       | for VX IT<br>482.6 mm (19")<br>mounting angles,<br>dynamic  | 14 pc(s). | <b>5302.046</b> |
| 6       | for VX IT<br>482.6 mm (19")<br>mounting angles,<br>standard | 14 pc(s). | <b>5502.115</b> |



### Complete CAT 6 system

#### for Network Cable Organizer

Modern network infrastructures rely on maximum performance and the greatest possible flexibility in cabling. A useful component here is the Network Cable Organizer (NCO). The robust 1 U mounting frame is pre-configured with 24 cable cassettes and revolutionises conventional structured cabling with 8 times faster installation.

#### Applications:

- For use in all network racks from a depth of 800 mm.

#### Benefits:

- Minimise cable chaos - Prevent obstructions to the air circulation in the vicinity of network switches
- Always the right length: Surplus cable lengths - whether CAT 6 or fibre-optic - are simply withdrawn with a spring balancer
- Every cable is 100% tested and supplied with a corresponding measurement record
- Front access - Ideal for retrofitting into racks with a depth of 800 mm or more

#### Functions:

- Attachment to the front and rear 482.6 mm (19") level

#### Technical specifications:

- CAT 6 cable STP
- 2 x RJ 45 connectors per cable
- Shielded RJ 45 connector with gold-coated pins
- Usable cable length per cassette: 1.6 m
- ISO/IEC 11801:2002, AWG 36, 100% copper, 250 MHz

#### Material:

- Mounting frame: Sheet steel
- Cassettes: Stainless steel, plastic (POM)

#### Colour:

- Mounting frame: RAL 9005

#### Supply includes:

- Complete CAT 6 system
- 24 CAT 6 cassettes
- Installation kit
- Assembly parts



#### Accessories:

- Mounting frame, see page 1070
- Blanking cover, see page 1071
- Identification labels, see page 1071



| Units U | Width mm | Height mm | Depth mm | Colour        | Operating temperature range | Packs of | Model No.       |
|---------|----------|-----------|----------|---------------|-----------------------------|----------|-----------------|
| 1       | 450      | 44        | 600      | Cable: black  | +10 °C...+45 °C             | 1 pc(s). | <b>7044.110</b> |
| 1       | 450      | 44        | 600      | Cable: blue   | +10 °C...+45 °C             | 1 pc(s). | <b>7044.120</b> |
| 1       | 450      | 44        | 600      | Cable: red    | +10 °C...+45 °C             | 1 pc(s). | <b>7044.130</b> |
| 1       | 450      | 44        | 600      | Cable: yellow | +10 °C...+45 °C             | 1 pc(s). | <b>7044.140</b> |
| 1       | 450      | 44        | 600      | Cable: green  | +10 °C...+45 °C             | 1 pc(s). | <b>7044.150</b> |
| 1       | 450      | 44        | 600      | Cable: violet | +10 °C...+45 °C             | 1 pc(s). | <b>7044.160</b> |
| 1       | 450      | 44        | 600      | Cable: white  | +10 °C...+45 °C             | 1 pc(s). | <b>7044.170</b> |

# Cable management

## Cable routing 19"



### Mounting frame

#### for Network Cable Organizer

Robust 1 U mounting frame for 24 cable cassettes. For individual configuration of the Network Cable Organizer.

#### Applications:

- For use in all network racks from a depth of 800 mm.
- Attachment to the front and rear 482.6 mm (19") level

#### Benefits:

- Minimise cable chaos – Prevent obstructions to the air circulation in the vicinity of network switches
- Always the right length: Surplus cable lengths – whether CAT 6 or fibre-optic – are simply withdrawn with a spring balancer
- Front access – Ideal for retrofitting into racks with a depth of 800 mm or more

#### Material:

- Mounting frame: Sheet steel

#### Colour:

- Mounting frame: RAL 9005

#### Supply includes:

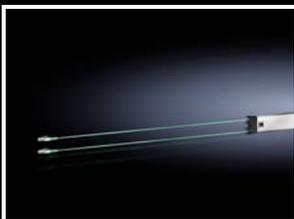
- Robust, 1 U sheet steel mounting frame for 24 cable cassettes
- Installation kit
- Assembly parts



#### Accessories:

- Blanking cover, see page 1071
- Identification labels, see page 1071
- CAT 6 cassettes, see page 1070
- Fibre-optic cassettes, see page 1071

| Units U | Width mm | Height mm | Depth mm | Design                                                | Operating temperature range | Packs of | Model No.       |
|---------|----------|-----------|----------|-------------------------------------------------------|-----------------------------|----------|-----------------|
| 1       | 450      | 44        | 600      | Item is configurable, options available for selection | +10 °C...+45 °C             | 1 pc(s). | <b>7044.010</b> |



### CAT 6 cassettes

#### for Network Cable Organizer

CAT 6 cassettes for self-configuration in the complete Network Cable Organizer system and for independent assembly in the Network Cable Organizer mounting frame.

#### Applications:

- Network Cable Organizer
- Mounting frame

#### Material:

- Cassettes: Stainless steel, plastic (POM)

| Colour        | Packs of | Model No.       |
|---------------|----------|-----------------|
| Cable: black  | 3 pc(s). | <b>7044.113</b> |
| Cable: blue   | 3 pc(s). | <b>7044.123</b> |
| Cable: red    | 3 pc(s). | <b>7044.133</b> |
| Cable: yellow | 3 pc(s). | <b>7044.143</b> |
| Cable: green  | 3 pc(s). | <b>7044.153</b> |
| Cable: violet | 3 pc(s). | <b>7044.163</b> |
| Cable: white  | 3 pc(s). | <b>7044.173</b> |

# Cable management

## Cable routing 19"

### Fibre-optic cassettes

#### for Network Cable Organizer

Fibre-optic cassettes for Network Cable Organizer mounting frame.

#### Benefits:

- Always the right length: Surplus cable lengths – whether CAT 6 or fibre-optic – are simply withdrawn with a spring balancer
- Every cable is 100% tested and supplied with a corresponding measurement record
- Secure locking – Each cable cassette has a cable attachment to avoid mechanical strain on the cable

#### Material:

- Cassettes: Stainless steel, plastic (POM)

| Cable version                                                                                                                            | Colour        | Packs of | Model No.       |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|-----------------|
| Connector type 1: LC duplex / connector type 2: LC duplex<br>Fibre-optic cable, OS2 RBS 9 µ/125 µ<br>Single mode, ISO/IEC 11801 EN 50173 | Cable: yellow | 3 pc(s). | <b>7044.210</b> |
| Connector type 1: LC duplex / connector type 2: SC duplex<br>Fibre-optic cable, OS2 RBS 9 µ/125 µ<br>Single mode, ISO/IEC 11801 EN 50173 | Cable: yellow | 3 pc(s). | <b>7044.211</b> |
| Connector type 1: LC duplex / connector type 2: LC duplex<br>Fibre-optic cable, OM3 RBS 50 µ/125 µ<br>Multi mode, ISO/IEC 11801 EN 50173 | Cable: aqua   | 3 pc(s). | <b>7044.230</b> |
| Connector type 1: LC duplex / connector type 2: SC duplex<br>Fibre-optic cable, OM3 RBS 50 µ/125 µ<br>Multi mode, ISO/IEC 11801 EN 50173 | Cable: aqua   | 3 pc(s). | <b>7044.231</b> |
| Connector type 1: LC duplex / connector type 2: LC duplex<br>Fibre-optic cable, OM4 RBS 50 µ/125 µ<br>Multi mode, ISO/IEC 11801 EN 50173 | Cable: violet | 3 pc(s). | <b>7044.240</b> |
| Connector type 1: LC duplex / connector type 2: SC duplex<br>Fibre-optic cable, OM4 RBS 50 µ/125 µ<br>Multi mode, ISO/IEC 11801 EN 50173 | Cable: violet | 3 pc(s). | <b>7044.241</b> |

### Blanking cover

#### for Network Cable Organizer

For covering unused slots in the Network Cable Organizer.

#### Material:

- Plastic POM

| Packs of  | Model No.       |
|-----------|-----------------|
| 10 pc(s). | <b>7044.020</b> |

### Identification labels

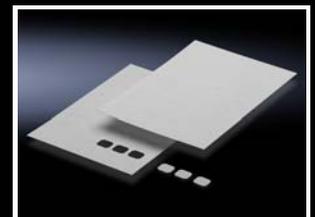
#### for Network Cable Organizer

Identification labels for Network Cable Organizer.

#### Supply includes:

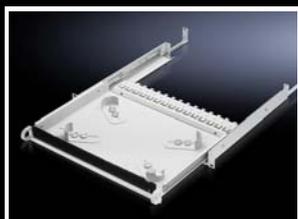
- 2 DIN A5 sheets of 48 labels

| Design                 | Packs of | Model No.       |
|------------------------|----------|-----------------|
| White, on DIN A5 sheet | 1 pc(s). | <b>7044.178</b> |



# Cable management

## Cable routing 19"



### Drawer 482.6 mm (19")

#### to accommodate surplus cables

The 1 U drawer offers a convenient opportunity for storing surplus cables in an organised, compact and secure way within the 482.6 mm (19") levels.

#### Applications:

- May be fitted between two 482.6 mm (19") levels
- For mounting on L-shaped mounting angles, cranked mounting angles or mounting frames

#### Benefits:

- With brush strip at the front for cable entry
- T-head rail in the rear section for cable clamping
- Ring-shaped kink-free routing of the conductors on adjustable elements in the interior

#### Material:

- Sheet steel

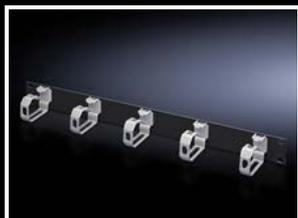
#### Colour:

- RAL 7035

#### Supply includes:

- Drawer
- Telescopic slides
- Assembly parts

| Units U | Distance between levels mm | Packs of | Model No.       |
|---------|----------------------------|----------|-----------------|
| 1       | 435 - 750                  | 1 pc(s). | <b>7063.200</b> |



### Cable management panel

#### with plastic rings

For horizontal management of the patch cables, with 5 cable shunting rings.

#### Width:

- 482.6 mm

#### Material:

- Panel: Sheet steel
- Ring: Plastic UL 94-V0

#### Supply includes:

- Cable management panel
- Cable shunting rings (supplied loose)

#### Note:

- The sizes given are external dimensions.

| Units U | Ring size mm | Colour   | Packs of | Model No.       |
|---------|--------------|----------|----------|-----------------|
| 1       | 70 x 44      | RAL 9005 | 1 pc(s). | <b>7159.017</b> |



### Cable management panel

#### with steel rings

For horizontal management of the patch cables, with 5 cable shunting rings.

#### Width:

- 482.6 mm

#### Material:

- Panel: Sheet steel
- Ring: Steel

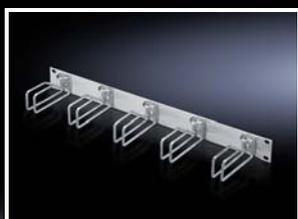
#### Surface finish:

- Panel: Spray-finished
- Ring: Zinc-plated

#### Note:

- The sizes given are external dimensions.

| Units U | Ring size mm | Colour   | Packs of | Model No.       |
|---------|--------------|----------|----------|-----------------|
| 1       | 105 x 43     | RAL 7035 | 1 pc(s). | <b>7257.035</b> |
| 1       | 55 x 43      | RAL 7035 | 1 pc(s). | <b>7257.200</b> |
| 2       | 125 x 85     | RAL 7035 | 1 pc(s). | <b>7257.100</b> |
| 1       | 105 x 43     | RAL 9005 | 1 pc(s). | <b>7257.005</b> |
| 1       | 55 x 43      | RAL 9005 | 1 pc(s). | <b>5502.205</b> |
| 2       | 125 x 85     | RAL 9005 | 1 pc(s). | <b>7257.105</b> |



# Cable management

## Cable routing 19"

### Cable management panel

#### with cable routing bars

For horizontal management of the patch cables with 5 cable routing bars. Opening the individual cable routing bars allows user-friendly modification and extension of the cabling.

#### Width:

- 482.6 mm

#### Material:

- Panel: Sheet steel, spray finished
- Cable routing bars: Plastic

| Units U | Bar depth mm | No. of bars/ U | Colour   | Packs of | Model No.       |
|---------|--------------|----------------|----------|----------|-----------------|
| 1       | 100          | 5              | RAL 9005 | 1 pc(s). | <b>5502.225</b> |



### Cable management panel

#### with front flap

The cable routing chamber has cut-outs from above, into which the patch cables can be inserted. The cable management panel is equipped with a flap and quick-release fasteners at the front, for optimum access to the cables. From the rear, the cables can be inserted via a cut-out with brush strips.

#### Width:

- 482.6 mm

#### Material:

- Sheet steel

#### Surface finish:

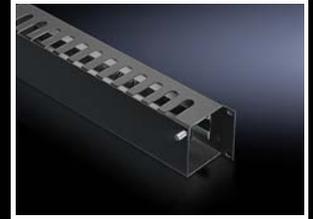
- Spray-finished

| Surface finish | Units U | Bar depth mm | Colour   | Packs of | Model No.       |
|----------------|---------|--------------|----------|----------|-----------------|
| Spray-finished | 2       | 100          | RAL 9005 | 1 pc(s). | <b>5502.235</b> |



#### Accessories:

- Cable clamp rail, see page 1063



### Cable routing channel

#### 482.6 mm (19")

To hold the patching cables.

#### Width:

- 482.6 mm

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

| Surface finish | Units U | Depth mm | Colour   | Packs of | Model No.       |
|----------------|---------|----------|----------|----------|-----------------|
| Spray-finished | 1       | 85       | RAL 9005 | 1 pc(s). | <b>5502.245</b> |



# Cable management

## Cable routing 19"



### Cable management panel with brush strip

**482.6 mm (19")**

For convenient, simple cable routing between two areas separated by a 482.6 mm (19") mounting level, for example, between the front and rear areas of the 482.6 mm (19") mounting level.

**Applications:**

- For locking and simultaneous cable routing in installation zones to the 1 U, 482.6 mm (19") mounting standard

**Benefits:**

- To make the cable entry larger, two panels are easily combined with one another

**Width:**

- 482.6 mm

**Material:**

- Sheet steel
- Brush strip: Plastic, UL 94-HB

**Surface finish:**

- Spray-finished

**Colour:**

- RAL 9005

| Units U | Packs of | Model No.       |
|---------|----------|-----------------|
| 1       | 1 pc(s). | <b>5302.202</b> |

**+ Accessories:**

- Cable clamp rail, see page 1063



### Cable tray, depth-variable

**for VX IT, TE 8000**

For protected cable routing between the front and rear installation area.

**Material:**

- Sheet steel

**Surface finish:**

- Spray-finished

**Colour:**

- RAL 9005

**Supply includes:**

- Assembly parts

| Surface finish | Mounting dimensions mm | Packs of | Model No.       |
|----------------|------------------------|----------|-----------------|
| Spray-finished | 350 - 550              | 1 pc(s). | <b>5302.043</b> |



### Combination rails

**for 482.6 mm (19")**

The combination rail offers a functional combination of a C rail for cable clamping with cable clamps and a cable guide rail with T-heads for cable routing using cable ties or nylon loops in a rail system.

**Applications:**

- For cable routing and strain relief on the 482.6 mm (19") level

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts for the combination rail, without assembly parts for fixing the cables

| Height U | Packs of | Model No.       |
|----------|----------|-----------------|
| 1        | 4 pc(s). | <b>5302.026</b> |

**+ Accessories:**

- 482.6 mm (19") fastener, 1 U, see page 1097
- Cable clip, see page 1060
- Cable ties, see page 1061
- Nylon loop, see page 1061



# 482.6 mm (19") installation system

## Swing frames

### Swing frame, small

for VX, VX SE, AX

for 600 and 800 mm wide enclosures

For mounting 482.6 mm (19") equipment.

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- 1 cam with double-bit lock insert
- 2 x 130° hinges
- Assembly parts

| U  | For enclosure/housing | From enclosure height mm | Packs of | Model No.       |
|----|-----------------------|--------------------------|----------|-----------------|
| 3  |                       | 380                      | 1 pc(s). | <b>8619.500</b> |
| 6  | VX,<br>VX SE,<br>AX   | 600                      | 1 pc(s). | <b>8619.510</b> |
| 9  |                       | 600                      | 1 pc(s). | <b>8619.520</b> |
| 12 |                       | 760                      | 1 pc(s). | <b>8619.530</b> |
| 15 | VX,<br>VX SE          | -                        | 1 pc(s). | <b>8619.540</b> |
| 18 |                       | -                        | 1 pc(s). | <b>8619.550</b> |

**Note:**

- For the installation in baying enclosure system VX, VX SE, see page 1076



**Also required:**

- The swing frame stay is required to lock the open swing frame 8619.270, see page 1078

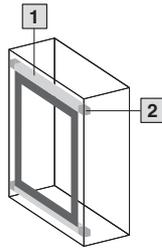


**Accessories:**

- 482.6 mm (19") fastener, 1 U, 2090.000, see page 1097

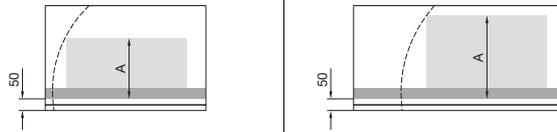


For mounting in compact enclosures AX, the following components are also required:



| [1] Installation kit | 1 pc(s). | For enclosure width mm |          | Page |
|----------------------|----------|------------------------|----------|------|
|                      |          | 600                    | 800      |      |
|                      |          | 8619.600               | 8619.610 | 1076 |
| [2] Mounting kit AX  | 4 pc(s). | 2034.010               | 2034.010 | 1076 |

### Max. installation depth for compact enclosures AX



| Enclosure dimensions mm |       | A = max. installation depth mm with internal mounting |      |
|-------------------------|-------|-------------------------------------------------------|------|
| Width                   | Depth | Centre                                                | Side |
| 600                     | 210   | 130                                                   | -    |
| 600                     | 250   | 170                                                   | -    |
| 600                     | 350   | 220                                                   | -    |
| 600                     | 400   | 220                                                   | -    |
| 600                     | 500   | -                                                     | -    |
| 600                     | 600   | -                                                     | -    |
| 600                     | 800   | -                                                     | -    |
| 800                     | 300   | 210                                                   | 210  |
| 800                     | 400   | 310                                                   | 310  |
| 800                     | 500   | -                                                     | -    |
| 800                     | 600   | -                                                     | -    |
| 800                     | 800   | -                                                     | -    |

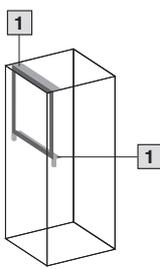
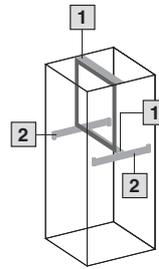
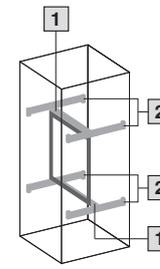
# 482.6 mm (19") installation system

## Swing frames

### Swing frame, small

for VX, VX SE, AX  
for 600 and 800 mm wide enclosures

For the installation in baying enclosure system VX, VX SE, the following components are also required:

| Installation <sup>1)</sup>                                                  |                        | Front, top/bottom                                                                  | Set back, top/bottom                                                                | Set back/front, centre                                                              |
|-----------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                             |                        |  |  |  |
| [1] Installation kit                                                        | 1 pc(s).               | For enclosure width mm                                                             |                                                                                     | Page                                                                                |
|                                                                             |                        | 600                                                                                | 800                                                                                 | 1076                                                                                |
| [2] Punched section with mounting flange 23 x 64 mm, 2 or 4 pc(s). required | For enclosure depth mm |                                                                                    |                                                                                     |                                                                                     |
|                                                                             | 400                    | 4 pc(s).                                                                           | 8617.110                                                                            | 991                                                                                 |
|                                                                             | 500                    | 4 pc(s).                                                                           | 8617.120                                                                            | 991                                                                                 |
|                                                                             | 600                    | 4 pc(s).                                                                           | 8617.130                                                                            | 991                                                                                 |
|                                                                             | 800                    | 4 pc(s).                                                                           | 8617.140                                                                            | 991                                                                                 |

<sup>1)</sup> For the installation in VX SE, the adaptor rail VX is required, see page 995

**Note:**

Product information, see page 1075



### Installation kit

#### for swing frame, small, and partial mounting plate

For mounting the small swing frame in AX, VX, VX SE or a partial mounting plate (in conjunction with a hinge for partial mounting plates).

**Installation options:**

- In VX, VX SE
  - Directly on the enclosure section in the foremost position
  - In conjunction with punched section with mounting flange 23 x 64 mm, offset in the depth

**Load capacity:**

- Up to 1500 N

**Material:**

- Sheet steel

**Surface finish:**

- Nickel-plated

**Supply includes:**

- Assembly parts

| For enclosure width mm | Packs of | Model No.       |
|------------------------|----------|-----------------|
| 600                    | 1 pc(s). | <b>8619.600</b> |
| 800                    | 1 pc(s). | <b>8619.610</b> |



**Also required:**

- For the installation in compact enclosures AX: Mounting kit AX, see page 1076
- For the installation in standalone rack VX SE: Adaptor rail VX, see page 995



### Mounting kit AX

#### for installation kit for swing frame, small

For mounting the small swing frame in compact enclosures AX.

**Supply includes:**

- 4 mounting brackets

**Note:**

- 1 pack is sufficient for mounting one small swing frame

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>2034.010</b> |

# 482.6 mm (19") installation system

## Swing frames

### Swing frame, large

for VX, VX SE

for 600, 800 and 1200 mm wide enclosures

For mounting 482.6 mm (19") equipment.

#### Material:

- Sheet steel

#### Surface finish:

- Frame: Zinc-plated  
- Trim panels: Spray finished

#### Colour:

- Trim panels: RAL 7035

#### Supply includes:

- Lock system, 130° hinge and parts for attaching to the installation kit

#### Note:

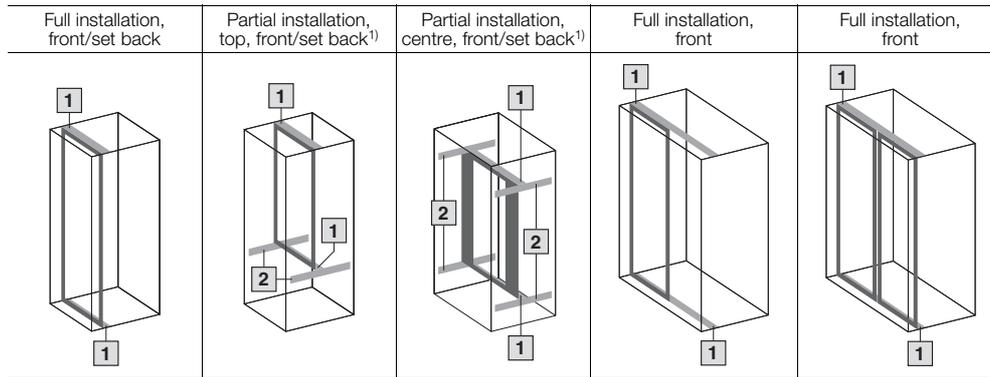
- The swing frame stay is required to lock the open swing frame 8619.270, see page 1078



#### Accessories:

- 482.6 mm (19") fastener, 1 U, 2090.000, see page 1097

#### Installation options



| Trim panel             |                              |             | Without         | One side        | Both sides      | Page |
|------------------------|------------------------------|-------------|-----------------|-----------------|-----------------|------|
|                        |                              |             |                 |                 |                 |      |
| For enclosure width mm |                              |             | 600             | 800             | 800             |      |
| U                      | For min. enclosure height mm | Packs of    | Model No.       |                 |                 |      |
| 22                     | 1200                         | 1 pc(s).    | <b>8619.010</b> | <b>8619.020</b> | <b>8619.030</b> |      |
| 31                     | 1600                         | 1 pc(s).    | <b>8619.011</b> | <b>8619.021</b> | -               |      |
| 35                     | 1800                         | 1 pc(s).    | <b>8619.012</b> | <b>8619.022</b> | <b>8619.032</b> |      |
| 40                     | 2000                         | 1 pc(s).    | <b>8619.013</b> | <b>8619.023</b> | <b>8619.033</b> |      |
| 44                     | 2200                         | 1 pc(s).    | <b>8619.014</b> | <b>8619.024</b> | <b>8619.034</b> |      |
| Lock system            |                              | Cam lock    | ■               | -               | -               |      |
|                        |                              | Locking rod | -               | ■               | ■               |      |

#### Also required

| [1] Installation kit                                                        |  | For enclosure width mm             | Packs of |          |          |      |
|-----------------------------------------------------------------------------|--|------------------------------------|----------|----------|----------|------|
|                                                                             |  | 600                                | 1 pc(s). | 8619.040 | -        | 1078 |
|                                                                             |  | 800                                | 1 pc(s). | 8619.041 | 8619.041 | 1078 |
|                                                                             |  | 1200                               | 1 pc(s). | 8619.042 | 8619.042 | 1078 |
| [2] Punched section with mounting flange 23 x 64 mm, 2 or 4 pc(s). required |  | Installation in enclosure depth mm | Packs of |          |          |      |
|                                                                             |  | 400                                | 4 pc(s). | 8617.110 | 8617.110 | 991  |
|                                                                             |  | 500                                | 4 pc(s). | 8617.120 | 8617.120 | 991  |
|                                                                             |  | 600                                | 4 pc(s). | 8617.130 | 8617.130 | 991  |
|                                                                             |  | 800                                | 4 pc(s). | 8617.140 | 8617.140 | 991  |

#### Accessories

|                                  |          |          |          |          |      |
|----------------------------------|----------|----------|----------|----------|------|
| Comfort handle AX                |          | -        | see page | see page | 939  |
| Lock inserts, type A             |          | -        | see page | see page | 939  |
| 180° hinges for VX <sup>2)</sup> | 1 pc(s). | 8619.050 | 8619.050 | 8619.050 | 1078 |

<sup>1)</sup> For the installation in VX SE, the adaptor rail VX is required, see page 995

<sup>2)</sup> Only in conjunction with 800 mm wide installation kit



# 482.6 mm (19") installation system

## Swing frames



### Installation kit

#### for swing frame, large

For mounting

- Directly on the enclosure section when installed across the entire enclosure height
- In conjunction with punched section with mounting flange 23 x 64 mm, for partial installation in the enclosure height

#### Material:

- Sheet steel, 3 mm

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 7035

#### Supply includes:

- Assembly parts

| For enclosure width mm | Load capacity N | Packs of | Model No.       |
|------------------------|-----------------|----------|-----------------|
| 600                    | 3500            | 1 pc(s). | <b>8619.040</b> |
| 800                    | 3500            | 1 pc(s). | <b>8619.041</b> |
| 1200                   | 1500            | 1 pc(s). | <b>8619.042</b> |



### Swing frame stay

Secures the swing frame in the open position.

For mounting on swing frame, large

- 8619.270 at the top of the enclosure
- 1980.200 at the bottom of the enclosure (with safety stop at 160°)

|                | Packs of | Model No.       |
|----------------|----------|-----------------|
| For 130° hinge | 1 pc(s). | <b>8619.270</b> |
| For 180° hinge | 1 pc(s). | <b>1980.200</b> |



For mounting on swing frame, small

- 8619.270, may be mounted at the top or bottom on the installation kit



### 180° hinge

#### for swing frame, large, for VX

To extend the opening angle from 130° to 180° in the foremost installation position.

Provides optimum access to the components and 482.6 mm (19") components located behind the swing frame.

#### Load capacity:

- Up to 1500 N

#### Material:

- Die-cast

#### Note:

- Only suitable for installation in VX

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>8619.050</b> |



### Slide rail

#### for swing frames

To support heavy slide-in 482.6 mm (19") electronic equipment in the swing frame.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

| For slide-in equipment with max. installation depth | Packs of  | Model No.       |
|-----------------------------------------------------|-----------|-----------------|
| < 190 mm                                            | 10 pc(s). | <b>1962.200</b> |
| > 190 mm                                            | 10 pc(s). | <b>1963.200</b> |

# 482.6 mm (19") installation system

## Accessories for Data Rack

### Second pair of mounting angles

#### for Data Rack

To accommodate 482.6 mm (19") network components or for the attachment of component shelves and slide rails. 482.6 mm (19") punched profile at the front, hole centre distance 465 mm (470 mm at the rear), tailored to the attachment of patch panels and cable routing rails. The mounting level may be positioned on a 50 mm pitch pattern. Minimum distance between levels 150 mm, maximum distance between levels 350 mm.

#### Material:

- Sheet steel, 2 mm

#### Surface finish:

- Spray-finished

#### Colour:

- Profile frame: RAL 7035
- Trim panel: RAL 5018

#### Supply includes:

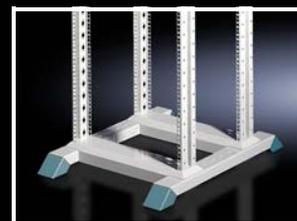
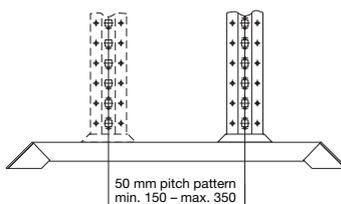
- Torsionally stiff profile frame with 482.6 mm (19") punchings
- Mounting accessories

| Units U | Packs of | Model No.       |
|---------|----------|-----------------|
| 31      | 1 pc(s). | <b>7296.000</b> |
| 36      | 1 pc(s). | <b>7297.000</b> |
| 40      | 1 pc(s). | <b>7298.000</b> |
| 45      | 1 pc(s). | <b>7299.000</b> |



#### Accessories:

- Depth stays, see page 1079



### Baying connector

#### for Data Rack

For assembling rows of distributor frames, or for cable routing between data racks.

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

| Length mm | Packs of | Model No.       |
|-----------|----------|-----------------|
| 53        | 3 pc(s). | <b>7494.000</b> |

#### Colour:

- RAL 7035

#### Supply includes:

- Assembly parts



### Depth stays

#### for Data Rack

For securing and stabilising two pairs of 482.6 mm (19") mounting angles in the Data Rack. The length of the depth stays is adjustable, and can accommodate the following spacings of mounting angles: 250, 300 and 350 mm.

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

| Packs of | Model No.       |
|----------|-----------------|
| 2 pc(s). | <b>7401.000</b> |

#### Colour:

- RAL 7035

#### Supply includes:

- Assembly parts



### Slide rail, 2 U, static installation, continuous for two pairs of 482.6 mm (19") mounting angles

To support heavy equipment in the Data Rack. The mounting dimensions of the slide rails were selected to enable them to be combined with 500 mm deep, 482.6 mm (19") component shelves. The mounting distance of the 482.6 mm (19") mounting angles is 350 mm.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Load capacity:

- 500 N, static

#### Supply includes:

- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 2 pc(s). | <b>7402.000</b> |



#### Also required:

- Second pair of mounting angles, see page 1079



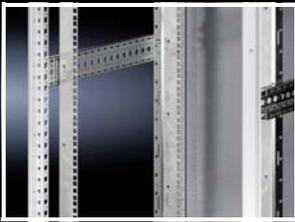
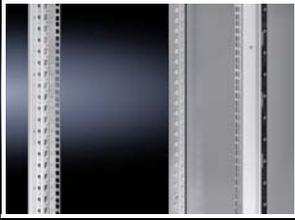
#### Accessories:

- 482.6 mm (19") fastener, 1 U, see page 1097
- Component shelf for frame attachment, see page 1006



# 482.6 mm (19") installation system

## Mounting angles



### Adaptor section, 482.6 mm (19")

for VX, VX SE, enclosure width 600 mm

For mounting electronic components, subracks and other 482.6 mm (19") equipment. Adaptor sections are easily shortened for partial assemblies.

#### Material:

- Sheet steel, 2 mm

#### Supply includes:

- Assembly parts

#### Note:

- The 482.6 mm (19") measurement applies when mounting on the frame
- Depth-offset installation is possible using punched sections with mounting flanges, 18 x 64 mm

| For enclosure height mm | U  | Packs of | Model No.                    |
|-------------------------|----|----------|------------------------------|
| 1600                    | 33 | 2 pc(s). | <b>8619.300<sup>1)</sup></b> |
| 1800                    | 38 | 2 pc(s). | <b>8619.310</b>              |
| 2000                    | 42 | 2 pc(s). | <b>8619.320<sup>1)</sup></b> |

<sup>1)</sup> For the rear of electronic enclosures, see page 130



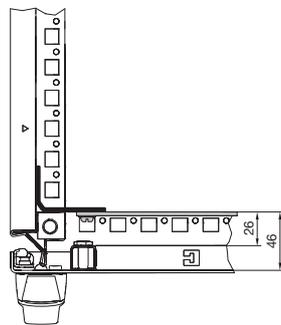
#### Accessories:

- 482.6 mm (19") fastener, 1 U, see page 1097
- Slide rail VX for adaptor section 482.6 mm (19") with attachment on one side, see page 1089
- Slide rail VX for adaptor section 482.6 mm (19") with attachment on both sides, see page 1089
- Punched section with mounting flange, 18 x 64 mm, see page 990
- Multi-tooth screws, see page 1004
- Metal multi-tooth screws, see page 1004
- Self-tapping screws, see page 1004

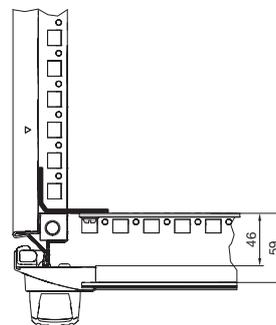
## Installation examples for VX

### Foremost installation position

In conjunction with a sheet steel door

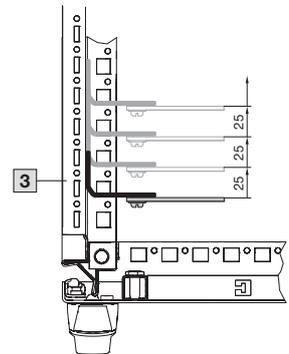


In conjunction with a glazed door



### Offset installation position

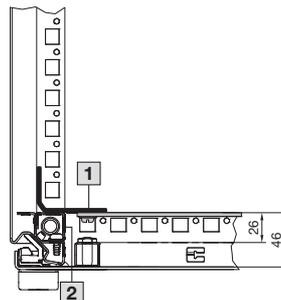
May be depth-mounted on a 25 mm pitch pattern on punched sections with mounting flanges



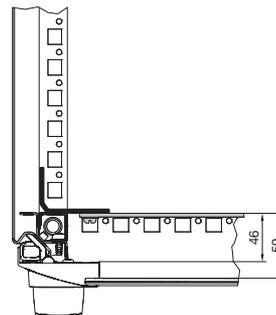
## Installation examples for VX SE

### Foremost installation position

On adaptor rail VX in conjunction with a sheet steel door



On adaptor rail VX in conjunction with a glazed door



- 1 Adaptor sections 482.6 mm (19")
- 2 Adaptor rail VX
- 3 Punched section with mounting flange 18 x 64 mm

# 482.6 mm (19") installation system

## Mounting angles

### Adaptor pieces, 482.6 mm (19") for VX, VX SE

The 1 U sub-section of adaptor sections. For the installation of subracks and other 482.6 mm (19") equipment.

#### Material:

- Sheet steel, 2 mm

#### Supply includes:

- Assembly parts

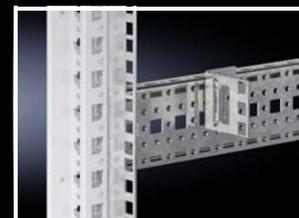
#### Note:

- The 482.6 mm (19") measurement applies when mounting on the frame of 600 mm wide enclosures
- Depth-offset installation in 600 mm wide enclosures is possible using punched sections with mounting flanges, 18 x 64 mm

| Units U | Packs of | Model No. |
|---------|----------|-----------|
| 1       | 4 pc(s). | 8619.330  |

#### + Accessories:

- 482.6 mm (19") fastener, 1 U, see page 1097
- Punched section with mounting flange, 18 x 64 mm, see page 990
- Multi-tooth screws, see page 1004
- Metal multi-tooth screws, see page 1004
- Self-tapping screws, see page 1004



### 482.6 mm (19") mounting angles, standard for VX IT

Suitable for assembling a 482.6 mm (19") mounting level or for 482.6 mm (19") partial installation. The L-shaped design directly accommodates all commercially available installation kits for server systems, which are fastened directly to the 482.6 mm (19") system punchings.

The L-shaped design directly accommodates all commercially available installation kits for server systems, which are fastened directly to the 482.6 mm (19") system punchings.

#### Applications:

- For mounting a 482.6 mm (19") mounting level within the VX IT rack system

#### Benefits:

- Integral, bidirectional U labelling
- Integral system punchings on a U pitch pattern on the front and sides, allows U-specific mounting of cable routing components for structured cabling

#### Installation options:

- Alternative installation widths from 21" - 24", depending on the mounting variant and rack dimensions selected

#### Technical specifications:

- Side punchings, round and square, on a U pitch pattern
- Potential equalisation within the mounting level and with the locating frame is achieved via the assembly components
- 482.6 mm (19") mounting hole including U centre fixing attachment to standard EIA 310 E

#### Material:

- Sheet steel, 2 mm

#### Surface finish:

- Primed

#### Colour:

- RAL 9005

#### Supply includes:

- Assembly parts

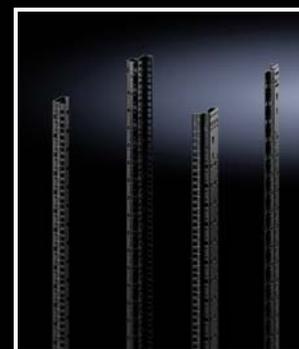
| For enclosure height U | Installation position | Packs of | Model No. |
|------------------------|-----------------------|----------|-----------|
| 15                     | front                 | 2 pc(s). | 5302.100  |
| 15                     | rear                  | 2 pc(s). | 5302.101  |
| 24                     | front                 | 2 pc(s). | 5302.102  |
| 24                     | rear                  | 2 pc(s). | 5302.103  |
| 38                     | front                 | 2 pc(s). | 5302.104  |
| 38                     | rear                  | 2 pc(s). | 5302.105  |
| 42                     | front                 | 2 pc(s). | 5302.106  |
| 42                     | rear                  | 2 pc(s). | 5302.107  |
| 47                     | front                 | 2 pc(s). | 5302.108  |
| 47                     | rear                  | 2 pc(s). | 5302.109  |

#### + Assembly instruction:

- A combination with cross-member, depth stays or mounting bracket is required for attachment
- Use of the different mounting options depends on the relevant enclosure dimensions

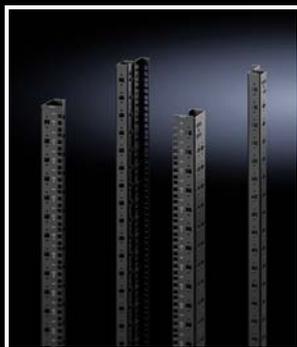
#### + Accessories:

- Cross member, see page 1083
- Mounting bracket, see page 1082
- Depth stays, see page 1083



# 482.6 mm (19") installation system

## Mounting angles



### 482.6 mm (19") mounting angles, dynamic

#### for VX IT

Suitable for assembling a 482.6 mm (19") mounting level or for 482.6 mm (19") partial installation.

The L-shaped design can directly accommodate all commercially available mounting kits for server systems, which are fastened directly to the 482.6 mm (19") system punchings.

#### Applications:

- For mounting a 482.6 mm (19") mounting level within the VX IT rack system

#### Benefits:

- Integral, bidirectional U labelling
- Integral system punchings on a U pitch pattern on the front and sides, allows U-specific mounting of cable routing components for structured cabling

#### Installation options:

- Alternative installation widths from 21" – 24", depending on the mounting variant and rack dimensions selected

#### Technical specifications:

- Side punchings, round and square, on a U pitch pattern
- Potential equalisation within the mounting level and with the locating frame is achieved via the assembly components
- 482.6 mm (19") mounting hole including U centre fixing attachment to standard EIA 310 E

#### Material:

- Sheet steel, 2.5 mm

#### Surface finish:

- Primed

#### Colour:

- RAL 9005

#### Supply includes:

- Assembly parts

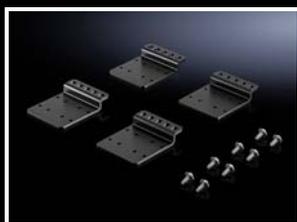
| For enclosure height U | Installation position | Packs of | Model No.       |
|------------------------|-----------------------|----------|-----------------|
| 38                     | front                 | 2 pc(s). | <b>5302.152</b> |
| 38                     | rear                  | 2 pc(s). | <b>5302.153</b> |
| 42                     | front                 | 2 pc(s). | <b>5302.154</b> |
| 42                     | rear                  | 2 pc(s). | <b>5302.155</b> |
| 47                     | front                 | 2 pc(s). | <b>5302.156</b> |
| 47                     | rear                  | 2 pc(s). | <b>5302.157</b> |

#### Assembly instruction:

- A combination with cross-member, depth stays or mounting bracket is required for attachment
- Use of the different mounting options depends on the relevant enclosure dimensions

#### Accessories:

- Mounting bracket, see page 1082
- Cross member, see page 1083
- Depth stays, see page 1083



### Mounting bracket

#### for VX IT 482.6 mm (19") mounting angles

For mounting 482.6 mm (19") mounting angles in VX IT network/server racks. For racks with a width of 600 mm, they are attached directly to the frame and for racks with a width of 800 mm to the cross-member.

#### Benefits:

- Direct potential equalisation of the mounting angles via the attachment

#### Material:

- Sheet steel

#### Surface finish:

- Clear-chromated

#### Colour:

- RAL 9005

#### Supply includes:

- Assembly parts

| Design                                             | For enclosure width mm | Packs of | Model No.       |
|----------------------------------------------------|------------------------|----------|-----------------|
| for VX IT 482.6 mm (19") mounting angles, standard | 600                    | 4 pc(s). | <b>5302.110</b> |
| for VX IT 482.6 mm (19") mounting angles, dynamic  | 600                    | 4 pc(s). | <b>5302.160</b> |
| for cross member                                   | 800                    | 4 pc(s). | <b>5302.169</b> |

#### Accessories:

- Cross member, see page 1083

# 482.6 mm (19") installation system

## Mounting angles

### Cross member

#### for VX IT mounting angles, 482.6 mm (19"), standard

For width-variable mounting of standard 482.6 mm (19") mounting angles in 800 mm wide VX IT network/server enclosures.

#### Benefits:

- Symmetrical or asymmetrical installation supported
- More space for cable routing or integration of a Liquid Cooling Unit (LCU) with one-sided, asymmetrical (laterally offset) installation
- Ideal for integrating 482.6 mm (19") mounting angles for alternative installation with 21", 23", or 24" components
- To boost the energy efficiency of an integral rack climate control system, the surrounding area around the 482.6 mm (19") mounting level can be covered with air baffle plates, enabling the more selective use of the cooling airflow and minimising exhaust airflows

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 9005

#### Load capacity:

- 4000 N

#### Supply includes:

- Assembly parts

| For enclosure width mm | Packs of | Model No. |
|------------------------|----------|-----------|
| 800                    | 2 pc(s). | 5302.167  |

#### Note:

- The maximum load capacity of one mounting level on a cross member is 4000 N per mounting level.



#### Also required:

- Mounting bracket, see page 1082



#### Assembly instruction:

- It is attached directly onto the enclosure frame
- A cross member mounting bracket is needed to screw-fasten the mounting angles to the cross member



#### Accessories:

- Air baffle plate, see page 1094



### Depth stays

#### for 482.6 mm (19") mounting angles

To accommodate 19" mounting angles.

#### Benefits:

- Particularly high load capacity up to 15,000 N
- Enhanced stability thanks to improved load distribution
- Symmetrical or asymmetrical installation supported
- More space for cable routing or integration of a Liquid Cooling Unit (LCU) with one-sided, asymmetrical (laterally offset) installation
- Ideal for integrating 482.6 mm (19") mounting angles for alternative installation with 21", 23", or 24" components

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 9005

#### Supply includes:

- 2 depth stays each for top and bottom for enclosure width > 600 mm
- Assembly parts

| Design                                                                                                  | For enclosure depth mm | For enclosure width mm | Packs of | Model No. |
|---------------------------------------------------------------------------------------------------------|------------------------|------------------------|----------|-----------|
| for VX IT 482.6 mm (19") mounting angles, standard                                                      | 1000                   | > 600                  | 1 pc(s). | 5302.111  |
| for VX IT 482.6 mm (19") mounting angles, standard                                                      | 1200                   | > 600                  | 1 pc(s). | 5302.112  |
| for VX IT 482.6 mm (19") mounting angles, dynamic                                                       | 1000                   | > 600                  | 1 pc(s). | 5302.161  |
| for VX IT 482.6 mm (19") mounting angles, dynamic                                                       | 1200                   | > 600                  | 1 pc(s). | 5302.164  |
| for VX IT 482.6 mm (19") mounting angles, standard<br>for VX IT 482.6 mm (19") mounting angles, dynamic | 1200                   | 600                    | 2 pc(s). | 5302.166  |



#### Also required:

- Support rail, see page 1084
- Mounting bracket, see page 1082



#### Assembly instruction:

- For the attachment of mounting angles in enclosures that are greater than 1000 mm deep and greater than 600 mm wide, additional mounting brackets are required
- For the attachment of mounting angles in enclosures that are greater than 1000 mm deep and greater than 600 mm wide, an additional support rail for VX IT is required



# 482.6 mm (19") installation system

## Mounting angles



### Support rail

#### for VX IT

For the attachment of mounting angles in enclosures > 1000 mm deep and 600 mm or 800 mm wide when using depth stays. The support rail improves load distribution in network/server racks.

#### Technical specifications:

- Side round and square punchings

#### Material:

- Sheet steel

#### Supply includes:

- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>5302.170</b> |

#### Assembly instruction:

- The support rail is screw-fastened onto the centre of the frame structure at right-angles below the depth stays



### Mounting angles additional fastening attachment

#### for VX IT 482.6 mm (19") mounting angles, standard

Prevents the mounting angles from twisting in case of unevenly distributed loads. Secured directly between the mounting angle and a mounting section on the outer mounting level of the VX frame structure.

#### Applications:

- For fixing the 482.6 mm (19") mounting angle, standard, onto the outer mounting level

#### Benefits:

- Can also be used as individual fastening with 482.6 mm (19") partial installation

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 9005

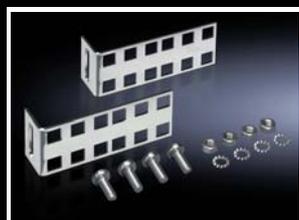
#### Supply includes:

- Assembly parts

| For enclosure width mm | Packs of | Model No.       |
|------------------------|----------|-----------------|
| 600                    | 2 pc(s). | <b>5302.123</b> |
| 800                    | 2 pc(s). | <b>5302.124</b> |

#### Also required:

- Punched section with mounting flange, 18 x 64 mm, see page 990



### Mounting kit, 2 U

#### for 482.6 mm (19") equipment

Facilitates fast, simple integration of additional 2 U mounting space within an enclosure by attaching to the enclosure frame or to the existing mounting angles at the sides. The flexible slot fastening of the brackets means that the distance between the two installation brackets may be freely selected, so that other 482.6 mm (19") attachment dimensions may be implemented. The second row of holes is used for the optional configuration of additional mounting surfaces.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| Units U | Packs of | Model No.       |
|---------|----------|-----------------|
| 2       | 2 pc(s). | <b>7246.420</b> |



# 482.6 mm (19") installation system

## Mounting angles

### Mounting angles, 482.6 mm (19")

#### for FlatBox

L-shaped bracket as 2nd attachment level

#### Material:

- Sheet steel, spray-finished

#### Colour:

- RAL 7035

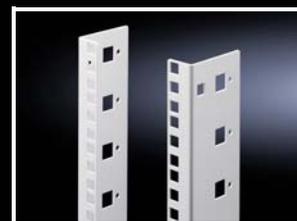
#### Supply includes:

- Assembly parts for fast, tool-free assembly.

#### Note:

- The 2nd attachment level should always be ordered in the same height as the basic enclosure
- Partial configuration is not possible

| Units U | Packs of | Model No.       |
|---------|----------|-----------------|
| 6       | 2 pc(s). | <b>7507.706</b> |
| 9       | 2 pc(s). | <b>7507.709</b> |
| 12      | 2 pc(s). | <b>7507.712</b> |
| 15      | 2 pc(s). | <b>7507.715</b> |
| 18      | 2 pc(s). | <b>7507.718</b> |
| 21      | 2 pc(s). | <b>7507.721</b> |



### Adhesive measurement strip, 482.6 mm (19")

With numerical labelling on a 482.6 mm (19") pitch pattern for clear identification of the various height units.

#### Applications:

- For retrofitting to existing 482.6 mm (19") sections
- For sticking onto the side adjacent to the system punchings

#### Benefits:

- Double-sided labelling allows the counting direction to be freely selected
- Clear documentation of the various installed components

#### Material:

- Sheet steel, spray-finished

| Design                   | Width mm | Packs of | Model No.       |
|--------------------------|----------|----------|-----------------|
| Labelling range 1 – 56 U | 6        | 1 pc(s). | <b>7950.100</b> |



### Cover, magnetic

#### for VX IT

For optionally covering the front system punchings with complete air blocking of the front, or in the absence of installed cable fingers. With additional labelling strips for bidirectional U labelling.

#### Applications:

- For retrofitting to existing 482.6 mm (19") sections

#### Benefits:

- Double-sided labelling allows the counting direction to be freely selected
- Clear documentation of the various installed components

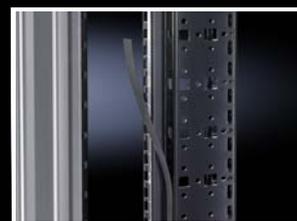
#### Material:

- Cover: PVC
- Adhesive measurement strips: Plastic

#### Supply includes:

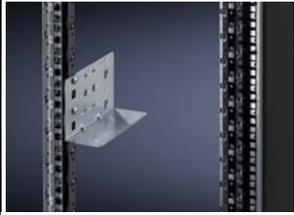
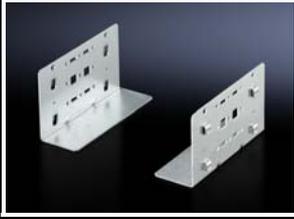
- Cover (front)
- 2 adhesive measurement strips, self-adhesive, bi-directional

| Design                   | Length m | Width mm | Packs of | Model No.       |
|--------------------------|----------|----------|----------|-----------------|
| Labelling range 1 – 56 U | 5        | 15       | 1 pc(s). | <b>5501.895</b> |



# 482.6 mm (19") installation system

## Slide rails



### Slide rail, 2 U, static installation for VX IT

System punchings for mounting accessories and cooling active components.

**Applications:**

- For mounting on a 482.6 mm (19") mounting level

**Installation options:**

- for 482.6 mm (19") mounting angles, standard
- for 482.6 mm (19") mounting angles, dynamic

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

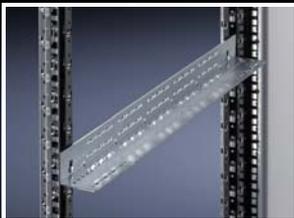
**Load capacity:**

- 300 N, static

**Supply includes:**

- Assembly parts

| Units U | Length mm | Packs of | Model No.       |
|---------|-----------|----------|-----------------|
| 2       | 150       | 2 pc(s). | <b>5501.400</b> |



### Slide rail, 1 U, static installation for VX IT

Side system punchings for mounting accessories and cooling components that expel to the side.

**Applications:**

- For mounting on the front mounting level
- To support heavy installed equipment

**Benefits:**

- Simply locate into the system punchings of the 482.6 mm (19") mounting brackets after adjusting the required 482.6 mm (19") distance between levels

**Installation options:**

- for 482.6 mm (19") mounting angles, standard

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Load capacity:**

- 800 N, static

**Supply includes:**

- Assembly parts

**Note:**

- Effective contact surface 35 mm per side

| Units U | Length mm | Distance between 482.6 mm (19") levels mm | Packs of | Model No.       |
|---------|-----------|-------------------------------------------|----------|-----------------|
| 1       | 275       | 345                                       | 2 pc(s). | <b>5501.410</b> |
| 1       | 375       | 445                                       | 2 pc(s). | <b>5501.420</b> |
| 1       | 475       | 545                                       | 2 pc(s). | <b>5501.430</b> |
| 1       | 575       | 645                                       | 2 pc(s). | <b>5501.440</b> |
| 1       | 675       | 745                                       | 2 pc(s). | <b>5501.450</b> |

 **Assembly instruction:**

- The 482.6 mm (19") spacing between levels in the VX IT must be adjusted accordingly prior to installation

# 482.6 mm (19") installation system

## Slide rails

### Slide rail, 2 U, static installation, heavy duty for VX IT

Side system punchings for mounting accessories and cooling components that expel to the side.

#### Applications:

- For mounting on the front mounting level
- To support heavy installed equipment

#### Benefits:

- Simply locate into the system punchings of the 482.6 mm (19") mounting brackets after adjusting the required 482.6 mm (19") distance between levels

#### Installation options:

- 482.6 mm (19") mounting angles, standard
- 482.6 mm (19") mounting angles, dynamic

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Load capacity:

- 2000 N, static

#### Supply includes:

- Assembly parts

#### Note:

- Effective contact surface 35 mm per side

| 482.6 mm (19") distance between levels, standard mm | 482.6 mm (19") distance between levels, dynamic mm | Packs of | Model No.       |
|-----------------------------------------------------|----------------------------------------------------|----------|-----------------|
| 320                                                 | 325                                                | 2 pc(s). | <b>5302.030</b> |
| 420                                                 | 425                                                | 2 pc(s). | <b>5302.031</b> |
| 520                                                 | 525                                                | 2 pc(s). | <b>5302.032</b> |
| 620                                                 | 625                                                | 2 pc(s). | <b>5302.033</b> |
| 720                                                 | 725                                                | 2 pc(s). | <b>5302.034</b> |



### Slide rail, heavy-duty for TE

For L-shaped mounting angles with a preconfigured clearance between levels of 740 mm. Easily and quickly installed due to locating brackets for the rear level.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

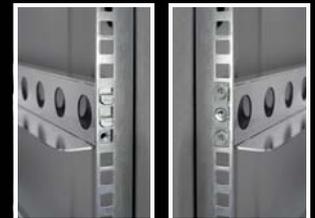
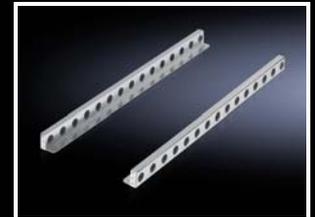
#### Load capacity (static):

- 1000 N

#### Supply includes:

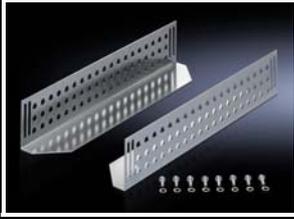
- Assembly parts

| Distance between 482.6 mm (19") levels mm | Contact surface, width mm | Contact surface, depth mm | Packs of | Model No.       |
|-------------------------------------------|---------------------------|---------------------------|----------|-----------------|
| 745                                       | 50                        | 734                       | 2 pc(s). | <b>7063.740</b> |



# 482.6 mm (19") installation system

## Slide rails



### Slide rail

#### for TE

For mounting between the front and rear 482.6 mm (19") mounting levels. The slide rails can be used to support heavy 482.6 mm (19") components.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Load capacity (static):

- 800 N

#### Supply includes:

- Assembly parts

| Distance between 482.6 mm (19") levels mm | Contact surface, width mm | Contact surface, depth mm | Packs of | Model No.       |
|-------------------------------------------|---------------------------|---------------------------|----------|-----------------|
| 395                                       | 85                        | 324                       | 2 pc(s). | <b>7963.310</b> |
| 495                                       | 85                        | 424                       | 2 pc(s). | <b>7963.410</b> |
| 595                                       | 85                        | 524                       | 2 pc(s). | <b>7963.510</b> |
| 695                                       | 85                        | 624                       | 2 pc(s). | <b>7963.610</b> |
| 795                                       | 85                        | 724                       | 2 pc(s). | <b>7963.710</b> |



### Slide rail, 1 U, depth-variable

#### for VX IT, TE

#### Applications:

- For mounting on the front mounting level
- To support heavy installed equipment
- To adapt to individual distances between 482.6 mm (19") levels

#### Benefits:

- Tool-free, time-saving one-man assembly from the enclosure front
- All three mounting holes in the EIA system punchings are available for screw-fastening the equipment.
- Alternatively, direct screw fastening in the TE 8000 to the 482.6 mm (19") system punchings is also possible

#### Installation options:

- 482.6 mm (19") L mounting angles, front and rear
- 482.6 mm (19") mounting frames front and rear
- for VX IT 482.6 mm (19") mounting angles, standard
- for VX IT 482.6 mm (19") mounting angles, dynamic

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

#### Note:

- Effective contact surface 25 mm per side

| Distance between 482.6 mm (19") levels mm | Load capacity (static) | Packs of | Model No.       |
|-------------------------------------------|------------------------|----------|-----------------|
| 600 - 900                                 | 800 N                  | 2 pc(s). | <b>5302.035</b> |
| 400 - 600                                 | 800 N                  | 2 pc(s). | <b>5501.460</b> |



# 482.6 mm (19") installation system

## Slide rails

### Slide rail, 1 U, depth-variable for VX IT, TE

For direct attachment to the 482.6 mm (19") system punchings on the mounting angles. The slide rails are pulled out to the required length and secured between the front and rear mounting level on the 482.6 mm (19") pitch pattern.

**Applications:**

- For mounting on the front mounting level

**Benefits:**

- No loss of U
- Thanks to the thin support surface of only around 0.8 mm thickness, exceeding the U pitch pattern is generally avoided, provided the components do not exceed a maximum height of 43.5 mm. In this way, several units may be easily arranged on top of one another without offset.

**Installation options:**

- For attachment between the front and rear 482.6 mm (19") mounting level

| Distance between 482.6 mm (19") levels mm | Packs of | Model No.       |
|-------------------------------------------|----------|-----------------|
| 390 - 550                                 | 2 pc(s). | <b>7063.750</b> |
| 550 - 750                                 | 2 pc(s). | <b>7063.752</b> |

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Load capacity:**

- 20 kg static load

**Supply includes:**

- Assembly parts

**Note:**

- Effective contact surface 30 mm per side



### Slide rail VX

#### for adaptor section 482.6 mm (19") with attachment on both sides

Mounting between the 482.6 mm (19") front and rear adaptor sections or 482.6 mm (19") adaptor pieces.

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts

| For enclosure depth mm | Packs of  | Model No.       |
|------------------------|-----------|-----------------|
| 500                    | 10 pc(s). | <b>8613.151</b> |
| 600                    | 10 pc(s). | <b>8613.161</b> |
| 800                    | 10 pc(s). | <b>8613.181</b> |



### Slide rail VX

#### for adaptor section 482.6 mm (19") with attachment on one side

Mounted on the adaptor section, 482.6 mm (19").

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts

| Length mm | Packs of  | Model No.       |
|-----------|-----------|-----------------|
| 270       | 10 pc(s). | <b>4531.001</b> |



# 482.6 mm (19") installation system

## 482.6 mm (19") installation



### Server telescopic slides

Facilitate optimum accessibility to the servers, even when built-in. For servers with a maximum width of 426 mm.

**Material:**

- Sheet steel

**Load capacity:**

- 30 kg

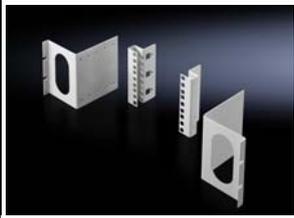
**Supply includes:**

- Telescopic slide with mounting kit
- Assembly parts

**Note:**

- Only in conjunction with L-shaped mounting angles

| Design                                       | Extension length mm | For enclosure depth mm | Packs of | Model No.       |
|----------------------------------------------|---------------------|------------------------|----------|-----------------|
| For 468.6 - 687.4 mm distance between levels | 511.2               | 600                    | 2 pc(s). | <b>3659.180</b> |
| For 559.0 - 789.0 mm distance between levels | 596.4               | 800                    | 2 pc(s). | <b>3659.190</b> |



### Adaptor kit, 3 U

**for 800 mm wide VX enclosures**

For fastening individual 482.6 mm (19") components, or as an additional mounting facility at the rear of the enclosure. The mounting level in the adaptor angle can be adjusted in 25 mm increments by up to 100 mm in the depth, leaving sufficient space for baying where patch panels or splicing boxes are used. Attachment is on the inner mounting level of the frame section or a suitable chassis in the enclosure depth.

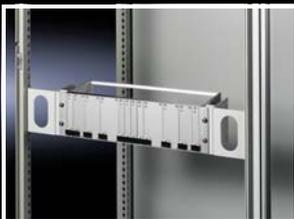
**Material:**

- Sheet steel

**Colour:**

- RAL 7035

| Units U | Design                        | Packs of | Model No.       |
|---------|-------------------------------|----------|-----------------|
| 3       | Installation position, centre | 2 pc(s). | <b>7246.100</b> |



### Adaptor, 3 U

**Depth offset 100 mm**

This adaptor is used to recess 482.6 mm (19") mounting of equipment inside enclosures with 482.6 mm (19") installation in the foremost position, such as server or electronic enclosures. In this way, sufficient space can be gained in front of the mounting equipment to integrate patch panels or switches, whilst at the same time exploiting the maximum enclosure depth.

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts

| Units U | Packs of | Model No.       |
|---------|----------|-----------------|
| 3       | 2 pc(s). | <b>7246.400</b> |



# 482.6 mm (19") installation system

## 482.6 mm (19") installation

### Adaptor, metric to 21"/19"

| Units U | Height SU | Packs of | Model No.       |
|---------|-----------|----------|-----------------|
| 1       | 2         | 2 pc(s). | <b>7246.010</b> |
| 3       | 6         | 2 pc(s). | <b>7246.030</b> |
| 6       | 11        | 2 pc(s). | <b>7246.060</b> |

With this adaptor, 482.6 mm (19") assemblies may be fastened to metric (535 mm) mounting angles, or combined systems may be configured.

#### Material:

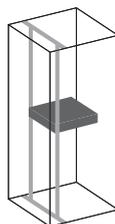
- Extruded aluminium section



### Drawer

#### for one 482.6 mm (19") mounting level

For front attachment to mounting angles, 482.6 mm (19"). With cover and telescopic slides to accommodate assignment lists, operating manuals and small parts. The small version of the 2 U variant is also suitable for mounting inside a swing frame.



#### Material:

- Sheet steel

#### Supply includes:

- Fully assembled
- Security lock 12321
- Assembly parts



| Units U | Width | Clearance openings, width mm | Clearance openings, depth mm | Installation depth mm | Colour   | Packs of | Model No.       |
|---------|-------|------------------------------|------------------------------|-----------------------|----------|----------|-----------------|
| 2       | 19"   | 411                          | 419                          | 427                   | RAL 7035 | 1 pc(s). | <b>7282.035</b> |
| 2       | 19"   | 411                          | 244                          | 250                   | RAL 7035 | 1 pc(s). | <b>7282.135</b> |
| 3       | 19"   | 411                          | 419                          | 427                   | RAL 7035 | 1 pc(s). | <b>7283.035</b> |
| 2       | 19"   | 411                          | 419                          | 427                   | RAL 9005 | 1 pc(s). | <b>5502.305</b> |
| 3       | 19"   | 411                          | 419                          | 427                   | RAL 9005 | 1 pc(s). | <b>5502.325</b> |

### Small equipment box, 4 U, shielded

#### for one 482.6 mm (19") mounting level

For accommodation of small equipment and other accessories within a partitioned 482.6 mm (19") installation level. The small equipment box contains an adjustable mounting base which can be used to further sub-divide the box.

#### Material:

- Sheet steel
- Brush strip: Plastic, UL 94-HB

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 9005

#### Load capacity:

- 200 N surface load, static

#### Supply includes:

- Small equipment box with brush strip
- 1 shelf



| Contact surface, width mm | Contact surface, depth mm | Height mm | Width mm | Depth mm | Packs of | Model No.       |
|---------------------------|---------------------------|-----------|----------|----------|----------|-----------------|
| 405                       | 300                       | 170       | 427      | 400      | 1 pc(s). | <b>5501.900</b> |

# 482.6 mm (19") installation system

## 482.6 mm (19") installation



### 482.6 mm (19") installation aid for Network Cable Organizer

For easier mounting of 482.6 mm (19") installed components within the mounting level.

**Applications:**

- To support heavy installed equipment

**Installation options:**

- For mounting on the front mounting level

**Material:**

- Sheet steel

**Colour:**

- RAL 9005

**Load capacity:**

- max. 150 N

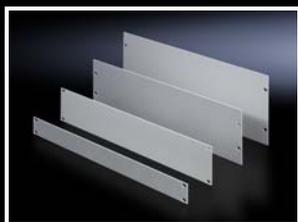
**Supply includes:**

- Assembly parts

**Note:**

- Effective contact surface 35 mm per side

| Packs of | Model No. |
|----------|-----------|
| 1 pc(s). | 5502.110  |



### Blanking plate, 482.6 mm (19")

For installation in electronic enclosures or housings.

**Benefits:**

- To neatly finish off free locations within the mounting level.

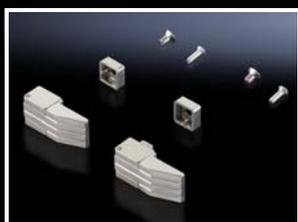
**Material:**

- Aluminium, 3 mm

**Surface finish:**

- Natural anodised

| Units U | Packs of | Model No. |
|---------|----------|-----------|
| 1       | 3 pc(s). | 1931.200  |
| 2       | 3 pc(s). | 1932.200  |
| 3       | 3 pc(s). | 1933.200  |
| 4       | 3 pc(s). | 1934.200  |
| 6       | 3 pc(s). | 1936.200  |
| 7       | 3 pc(s). | 1935.200  |
| 9       | 3 pc(s). | 1939.200  |
| 12      | 3 pc(s). | 1937.200  |



### Hinge for blanking plates

**Material:**

- Die-cast zinc

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts

| Packs of | Model No. |
|----------|-----------|
| 2 pc(s). | 1950.000  |

# 482.6 mm (19") installation system

## 482.6 mm (19") installation

### Blanking panel, 482.6 mm (19")

As an extension cover or for population as required.

**Width:**  
– 482.6 mm

**Material:**  
– Sheet steel

#### Colour RAL 7035

| Units U | Installation height mm | Width | Packs of | Model No.       |
|---------|------------------------|-------|----------|-----------------|
| 1       | 44                     | 19"   | 2 pc(s). | <b>7151.035</b> |
| 1.5     | 66                     | 19"   | 2 pc(s). | <b>7157.035</b> |
| 2       | 88                     | 19"   | 2 pc(s). | <b>7152.035</b> |
| 3       | 132.5                  | 19"   | 2 pc(s). | <b>7153.035</b> |
| 6       | 266                    | 19"   | 2 pc(s). | <b>7156.035</b> |

#### Colour RAL 9005

| Units U | Installation height mm | Width | Packs of | Model No.       |
|---------|------------------------|-------|----------|-----------------|
| 1       | 44                     | 19"   | 2 pc(s). | <b>7151.005</b> |
| 2       | 88                     | 19"   | 2 pc(s). | <b>7152.005</b> |
| 3       | 132.5                  | 19"   | 2 pc(s). | <b>7153.005</b> |
| 6       | 266                    | 19"   | 2 pc(s). | <b>7156.005</b> |



### Blanking panel, 482.6 mm (19")

#### Tool-free attachment

The blanking panel is used to seal unused areas within the 482.6 mm (19") mounting level. Quick tool-free attachment means that it is easily integrated anywhere, and can also be removed again if necessary. The consistent use of blanking panels ensures targeted air routing in partially populated racks.

**Material:**  
– Plastic  
– Fire protection: Self-extinguishing, to UL 94 HB, halogen-free

**Colour:**  
– RAL 9005

**Supply includes:**  
– Blanking panel, 1 U, with integral quick-fastening

| Installation height U | Width | Packs of  | Model No.       |
|-----------------------|-------|-----------|-----------------|
| 1                     | 19"   | 10 pc(s). | <b>5302.200</b> |



### Vent trim panel, 482.6 mm (19")

For targeted air infeed from the front zone into the 482.6 mm (19") level.

#### Applications:

– Targeted routing of cold air from the raised floor via the front to the rear for cooling separate components

#### Benefits:

– Vented surface area approx. 85 % perforated

**Material:**  
– Sheet steel

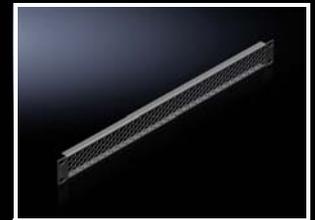
**Surface finish:**  
– Spray-finished

**Colour:**  
– RAL 9005

| Units U | Packs of | Model No.       |
|---------|----------|-----------------|
| 1       | 1 pc(s). | <b>5302.201</b> |

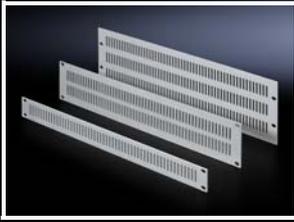
#### ! Also required:

– 482.6 mm (19") fastener, 1 U, see page 1097  
– Multi-tooth screws, see page 1098



# 482.6 mm (19") installation system

## 482.6 mm (19") installation



### Ventilated front panels

**Width 482.6 mm (19")**

For venting enclosures and housings.

**Material:**

- Aluminium

**Surface finish:**

- Natural anodised

| Units U | Packs of | Model No.       |
|---------|----------|-----------------|
| 1       | 3 pc(s). | <b>2231.000</b> |
| 2       | 3 pc(s). | <b>2232.000</b> |
| 3       | 3 pc(s). | <b>2233.000</b> |



### Air baffle plate

for VX IT 482.6 mm (19") mounting angles, standard

**Applications:**

- To separate the hot/cold zones within an enclosure with aisle containment or when using an LCP system.

**Benefits:**

- For selectively boosting the energy efficiency of a climate control system
- Vertical brush strip for collision-free shielding with installed rail systems on the outer mounting level

**Material:**

- Sheet steel
- Blanking panel: Plastic, UL 94-HB, halogen-free
- Brush strip: Plastic, UL 94-HB

**Surface finish:**

- Spray-finished

**Colour:**

- RAL 9005

**Supply includes:**

- 2 vertical trim panels
- 2 horizontal trim panels
- 4 brush strips
- 4 cellular PU foam pieces
- Assembly parts

 **Assembly instruction:**

- The vertical trim panels with brush strip may be fitted on both the front and rear 482.6 mm (19") mounting angles for partitioning.
- The horizontal trim panels with brush strips can only be mounted on the front 482.6 mm (19") mounting angles.
- 482.6 mm (19") mounting cut-outs integrated within the partitioning areas may optionally be sealed with the supplied blanking panels, or used to install additional components or for cable routing. Please see the product-specific scope of supply.

 **Accessories:**

- 482.6 mm (19") fastener, 1 U, see page 1097



| For enclosure width mm | For enclosure height mm | Product-specific scope of supply       | Packs of | Model No.       |
|------------------------|-------------------------|----------------------------------------|----------|-----------------|
| 600                    | 1200                    | -                                      | 1 pc(s). | <b>5302.010</b> |
| 800                    | 1200                    | 4 blanking panels, 482.6 mm (19"), 1 U | 1 pc(s). | <b>5302.011</b> |
| 600                    | 1800                    | -                                      | 1 pc(s). | <b>5302.012</b> |
| 800                    | 1800                    | 6 blanking panels, 482.6 mm (19"), 1 U | 1 pc(s). | <b>5302.013</b> |
| 600                    | 2000                    | -                                      | 1 pc(s). | <b>5302.016</b> |
| 800                    | 2000                    | 6 blanking panels, 482.6 mm (19"), 1 U | 1 pc(s). | <b>5302.014</b> |
| 600                    | 2200                    | -                                      | 1 pc(s). | <b>5302.017</b> |
| 800                    | 2200                    | 6 blanking panels, 482.6 mm (19"), 1 U | 1 pc(s). | <b>5302.015</b> |

# 482.6 mm (19") installation system

## 482.6 mm (19") installation

### Air baffle plate

#### for VX IT 482.6 mm (19") mounting angles, dynamic

For selectively boosting the energy efficiency of a climate control system.

#### Applications:

- To separate the hot/cold zones within an enclosure with aisle containment or when using an LCP system.

#### Benefits:

- Vertical brush strip for collision-free shielding with installed rail systems on the outer mounting level

#### Material:

- Sheet steel
- Blanking panel: Plastic, UL 94-HB, halogen-free
- Brush strip: Plastic, UL 94-HB

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 9005

#### Supply includes:

- 2 vertical trim panels
- 2 horizontal trim panels
- 4 brush strips
- 4 cellular PU foam pieces
- Assembly parts



#### Assembly instruction:

- The vertical trim panels with brush strip may be fitted on both the front and rear 482.6 mm (19") mounting angles for partitioning.
- The horizontal trim panels with brush strips can only be mounted on the front 482.6 mm (19") mounting angles.
- 482.6 mm (19") mounting cut-outs integrated within the partitioning areas may optionally be sealed with the supplied blanking panels, or used to install additional components or for cable routing. Please see the product-specific scope of supply.



#### Accessories:

- 482.6 mm (19") fastener, 1 U, see page 1097



| For enclosure width mm | For enclosure height mm | Product-specific scope of supply       | Packs of | Model No.       |
|------------------------|-------------------------|----------------------------------------|----------|-----------------|
| 600                    | 1200                    | -                                      | 1 pc(s). | <b>5302.000</b> |
| 800                    | 1200                    | 4 blanking panels, 482.6 mm (19"), 1 U | 1 pc(s). | <b>5302.001</b> |
| 600                    | 1800                    | -                                      | 1 pc(s). | <b>5302.002</b> |
| 800                    | 1800                    | 6 blanking panels, 482.6 mm (19"), 1 U | 1 pc(s). | <b>5302.003</b> |
| 600                    | 2000                    | -                                      | 1 pc(s). | <b>5302.004</b> |
| 800                    | 2000                    | 6 blanking panels, 482.6 mm (19"), 1 U | 1 pc(s). | <b>5302.005</b> |
| 600                    | 2200                    | -                                      | 1 pc(s). | <b>5302.006</b> |
| 800                    | 2200                    | 6 blanking panels, 482.6 mm (19"), 1 U | 1 pc(s). | <b>5302.007</b> |
| 600                    | 2450                    | -                                      | 1 pc(s). | <b>5302.008</b> |
| 800                    | 2450                    | 6 blanking panels, 482.6 mm (19"), 1 U | 1 pc(s). | <b>5302.009</b> |

### 482.6 mm (19") air duct

#### for horizontal air routing

Air duct, passive, for cold air supply to 482.6 mm (19") IT equipment installed at the rear of server racks; air is drawn in from the front.

#### Benefits:

- For superior air infeed to the rear 482.6 mm (19") components
- Integral brush strip for cable entry of 482.6 mm (19") IT equipment
- Supports front-to-back air routing
- Depth-variable

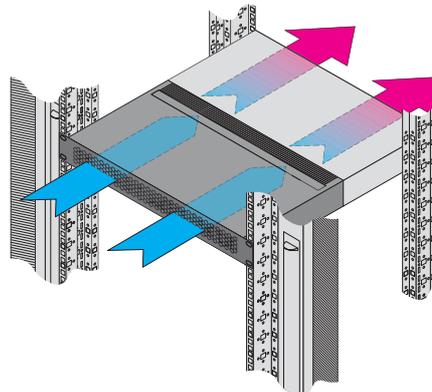
#### Material:

- Sheet steel, spray-finished
- Brush strip: Plastic, UL 94-HB

#### Colour:

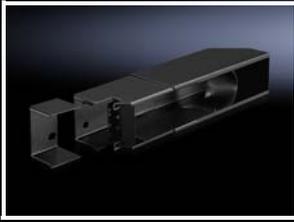
- RAL 9005

| Width mm | Height U | Depth mm  | Packs of | Model No.       |
|----------|----------|-----------|----------|-----------------|
| 482.6    | 1        | 223 - 356 | 1 pc(s). | <b>3301.391</b> |



# 482.6 mm (19") installation system

## 482.6 mm (19") installation



### Air duct

#### for side air routing

Air duct, passive, for cold air intake to 482.6 mm (19") IT equipment with side air inlet. Suitable for use in conjunction with all-round partitioning around the mounting level via air baffle plates and targeted management of the airflow through the air duct.

#### Benefits:

- For superior air infeed to the rear 482.6 mm (19") equipment with side air routing
- Integral membrane cover allows cable entry to the rear
- Depth-variable

#### Installation options:

- for 482.6 mm (19") mounting angles, standard

#### Material:

- Sheet steel

#### Surface finish:

- Spray-finished

#### Colour:

- RAL 9005

#### Supply includes:

- Air duct
- Adaptor for attaching to 482.6 mm (19") mounting angles
- Magnetic strip to cover the remaining vertical openings in the air baffle plate

| Height U | Depth mm  | For enclosure width mm | Packs of | Model No.       |
|----------|-----------|------------------------|----------|-----------------|
| 2        | 275 - 418 | 800                    | 1 pc(s). | <b>3301.392</b> |



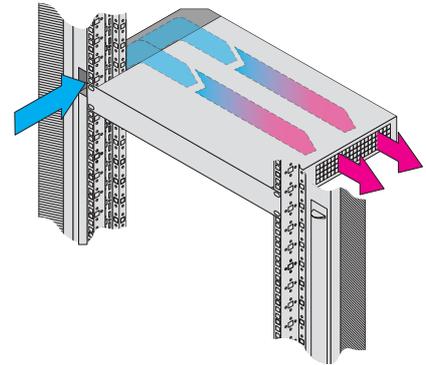
#### Also required:

- Air baffle plate, see page 1094



#### Assembly instruction:

- Only suitable for fitting on the front 482.6 mm (19") installation level
- Can only be mounted in the area of the vertical 19" openings of the air baffle plate



### Brush strip, vertical

#### for VX IT

Within the network distributor, this serves as a flexible infill panel which stylishly conceals the cable management area to the side of the 482.6 mm (19") mounting level. The brush strip facilitates convenient cable routing from the side and rear distributor area to the front connection level. The clearance required in front of the mounting level is at least 75 mm. The brush strip is mounted at the side on the vertical frame section, on horizontal or vertical punched sections.

#### Material:

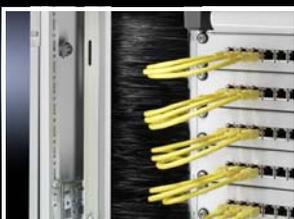
- Aluminium section, natural anodised
- Brush strip: Plastic, UL 94-HB

| Length mm | Bristle length mm | For enclosure height mm | Packs of | Model No.       |
|-----------|-------------------|-------------------------|----------|-----------------|
| 950       | 95                | 2000                    | 4 pc(s). | <b>7827.544</b> |



#### Assembly instruction:

- The brush strip will need to be shortened when mounting on 482.6 mm (19") mounting angles.



# 482.6 mm (19") installation system

## 482.6 mm (19") installation

### Mounting panel, 482.6 mm (19")

For fast integration of smaller mounting units within the 482.6 mm (19") level, such as potential equalisation rails, distributor boxes, small electrical components etc. Simple screw-fastening of the components to the integral 25 mm system punchings.

**Material:**

- Sheet steel



**Also required:**

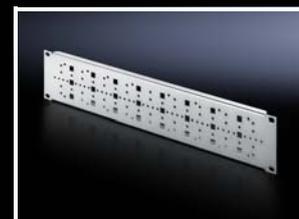
- 482.6 mm (19") fastener, 1 U, see page 1097
- Multi-tooth screws, see page 1098



**Accessories:**

- 482.6 mm (19") fastener, 1 U, see page 1097

| Units U | Mounting surface width mm | Colour   | Surface finish | Packs of | Model No.       |
|---------|---------------------------|----------|----------------|----------|-----------------|
| 2       | 450                       | -        | Zinc-plated    | 1 pc(s). | <b>7151.300</b> |
| 1       | 450                       | RAL 9005 | Spray-finished | 1 pc(s). | <b>5302.204</b> |



### Support

**for small appliances**

For secure attachment of non-482.6 mm (19")-conforming small appliances such as modems, power packs, routers etc. Angular support for mounting in the free space at the side between the 482.6 mm (19") level and the side panel on mounting angles or punched sections. Attachment of the components and connection cables can be achieved quickly and easily using nylon tape or cable ties. Also suitable for cable routing in the enclosure depth.

| Height mm | Width mm | Depth mm | Packs of | Model No.       |
|-----------|----------|----------|----------|-----------------|
| 150       | 350      | 97       | 1 pc(s). | <b>7246.500</b> |

**Material:**

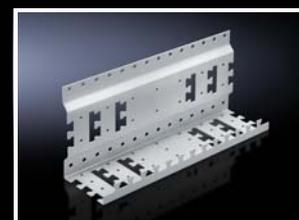
- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts



### 482.6 mm (19") fastener, 1 U

**with contact**

For simple screw connection of installation components within the 482.6 mm (19") mounting level. Simply slide onto the mounting angle from the inside and lock home.

**Benefits:**

- Fast positioning and installation instead of using individual cage nuts
- Integral contacting for potential equalisation
- Preconfigured 1 U support with 3 cage nuts, including centre attachment to standard EIA 310
- Supports multiple dismantling and reuse

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

| Thread | Packs of  | Model No.       |
|--------|-----------|-----------------|
| M5     | 24 pc(s). | <b>2090.000</b> |

**Note:**

- All enclosures in the Rittal range have already been tested within their tolerances for the use of 482.6 mm (19") fasteners. Suitability for use in enclosures from other manufacturers cannot be guaranteed.



**Also required:**

- Multi-tooth screws, see page 1098



# 482.6 mm (19") installation system

## 482.6 mm (19") installation



### Captive nuts

For the attachment of rack-mounted electronic equipment, 482.6 mm (19") installed equipment and blanking plates to mounting angles, 482.6 mm (19"). For use with metal thickness from 0.8 – 2.5 mm. Optionally with or without contact of the installed equipment to the 482.6 mm (19") section/enclosure.

| Thread | Design          | For metal thickness mm | Packs of  | Model No.       |
|--------|-----------------|------------------------|-----------|-----------------|
| M5     | without contact | 0.8 - 2.5              | 50 pc(s). | <b>2092.500</b> |
| M5     | with contact    | 0.8 - 2.5              | 50 pc(s). | <b>2094.500</b> |
| M6     | without contact | 0.8 - 2.5              | 50 pc(s). | <b>2092.200</b> |
| M6     | with contact    | 0.8 - 2.5              | 50 pc(s). | <b>2094.200</b> |

 **Possible alternative:**

- 482.6 mm (19") fastener, 1 U, see page 1097



### Assembly screws

For electronic equipment, 482.6 mm (19") installed components and blanking plates.

- Supply includes:**
- Plastic washers

| Thread | Thread length mm | Design              | Packs of  | Model No.       |
|--------|------------------|---------------------|-----------|-----------------|
| M5     | 16               | Phillips-head screw | 50 pc(s). | <b>7094.120</b> |
| M5     | 16               | Multi-tooth 25      | 50 pc(s). | <b>7094.130</b> |
| M6     | 16               | Phillips-head screw | 50 pc(s). | <b>7094.100</b> |
| M6     | 16               | Slot-head screw     | 50 pc(s). | <b>7094.110</b> |
| M6     | 16               | Multi-tooth 30      | 50 pc(s). | <b>7094.140</b> |

 **Assembly instruction:**

- Max. tightening torque 3 Nm



### Front-mounting cage nut, 482.6 mm (19")

The cage nut consists of an expanding nut which is simply inserted into the square attachment hole at the front and then secured with the assembly screw. When tightening the screw, the cage expands and thus secures the required components. Clamping range from 1.2 – 4.5 mm. Multi-tooth screw head, bit size T 30.

- Material:**
- Sheet steel

- Surface finish:**
- Zinc-plated

- Supply includes:**
- Pan-head screws
  - Expanding nuts
  - Plastic washers

| Thread | Thread length mm | Design                             | Packs of  | Model No.       |
|--------|------------------|------------------------------------|-----------|-----------------|
| M6     | 16               | Size of mounting hole 9.5 x 9.5 mm | 50 pc(s). | <b>2094.400</b> |



# 482.6 mm (19") installation system

## 482.6 mm (19") installation

### Spring nuts with screws

#### for T-slot mounting angle

The spring nuts ensure flexible, secure mounting of accessory components on the T-slot mounting angles.

#### Supply includes:

- Spring nuts
- Screws, self-locking

| Thread | Thread length mm | Design              | Packs of  | Model No. |
|--------|------------------|---------------------|-----------|-----------|
| M6     | 10               | Phillips-head screw | 50 pc(s). | 7000.990  |



### Fibre-optic splicing box, depth-variable

The 482.6 mm (19") splicing box is designed to accommodate splicing cassettes and can be installed in any network distributor with 482.6 mm (19") accommodation and used as a fibre-optic termination or distributor. The variable cassette fixture permits twist-proof installation of all standard splicing cassettes. The rear section of the splicing box is completely open for cable entry; a rubber cable clamp strip provides protection against dust. The fibre-optic cables can be secured with cable ties or cable clamps. The splicing box is infinitely depth-adjustable up to 100 mm within the 482.6 mm (19") flanges. In addition, the splicing box may be fully withdrawn from the 482.6 mm (19") flanges. Two strain relief clips and cable routing clips for the fibre stock provide a solution to suit any fibre-optic wiring system.

#### Material:

- Sheet steel

#### Colour:

- RAL 7035

#### Supply includes:

- Splicing box
- Cable routing clips
- Cassette cover
- Mounting accessories for patch panel

#### Note:

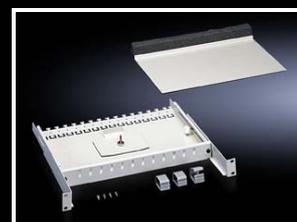
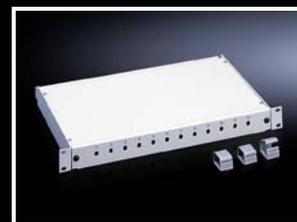
- Supplied without patch panels and splicing cassettes

| Units U | Maximum no. of splicing cassettes | Installation depth mm | Packs of | Model No. |
|---------|-----------------------------------|-----------------------|----------|-----------|
| 1       | 2                                 | 302                   | 1 pc(s). | 7241.005  |



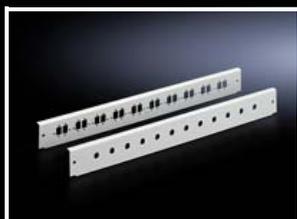
#### Also required:

- Patch panels, see page 1100



# 482.6 mm (19") installation system

## 482.6 mm (19") installation



### Patch panels

#### for fibre-optic splicing box, depth-variable, and fibre-optic breakout box, 1 U

With cut-outs for population with fibre-optic couplings.

#### Applications:

- for fibre-optic splicing box, depth-variable, and fibre-optic breakout box, 1 U

#### Material:

- Sheet steel

#### Colour:

- RAL 7035

| Units U | For couplings                              | Number of locations | Packs of | Model No.       |
|---------|--------------------------------------------|---------------------|----------|-----------------|
| 1       | E-2000<br>E-2000 duplex<br>SC<br>LC duplex | 24                  | 1 pc(s). | <b>7241.024</b> |
| 1       | SC duplex<br>LC quad                       | 12                  | 1 pc(s). | <b>7241.045</b> |



### Fibre-optic splicing box with telescopic pull-out

#### lockable

The 482.6 mm (19") splicing box is designed to accommodate splicing cassettes and can be installed in any network distributor with 482.6 mm (19") accommodation and used as a fibre-optic termination or distributor. The rear section of the splicing box is completely open for cable entry; a rubber cable clamp strip provides protection against dust. The fibre-optic cables can be secured with cable ties or cable clamps; two strain relief clips and cable routing clips for the fibre stock provide a solution to suit any fibre-optic wiring system.

#### Benefits:

- The telescopic pull-out provides optimum access to the splicing cassettes and cable clamp
- The variable cassette fixture permits twist-proof installation of all standard splicing cassettes
- The security lock fitted at the front protects against unauthorised access

#### Material:

- Sheet steel

#### Colour:

- RAL 7035

#### Supply includes:

- Splicing box
- Cable routing clips
- Security lock
- Cassette cover
- Mounting accessories for patch panel

#### Note:

- Supplied without patch panels and splicing cassettes

| Units U | Maximum no. of splicing cassettes | Installation depth mm | Packs of | Model No.       |
|---------|-----------------------------------|-----------------------|----------|-----------------|
| 1       | 2                                 | 363                   | 1 pc(s). | <b>7170.535</b> |
| 2       | 4                                 | 363                   | 1 pc(s). | <b>7470.535</b> |



#### Also required:

- Patch panel, see page 1101

# 482.6 mm (19") installation system

## 482.6 mm (19") installation

### Patch panel

#### for fibre-optic splicing box, lockable

For splicing boxes, there is a choice of multiple panels with corresponding cut-outs for the installation of single or duplex fibre-optic couplings.

#### Material:

– Sheet steel

#### Colour:

– RAL 7035

| Units U | For couplings                                    | Number of locations | Packs of | Model No.       |
|---------|--------------------------------------------------|---------------------|----------|-----------------|
| 2       | E-2000<br>E-2000 duplex<br>SC<br>LC duplex       | 24                  | 1 pc(s). | <b>7478.535</b> |
| 1       | E-2000<br>E-2000 duplex<br>SC<br>LC<br>LC duplex | 20                  | 1 pc(s). | <b>7178.535</b> |
| 1       | SC duplex<br>LC quad                             | 12                  | 1 pc(s). | <b>7169.535</b> |
| 2       | ST                                               | 24                  | 1 pc(s). | <b>7474.535</b> |

### Patch panels for small fibre-optic distributors

Various patch panels with different connector types are available for individual configuration of small fibre-optic distributors.

#### Material:

– Sheet steel

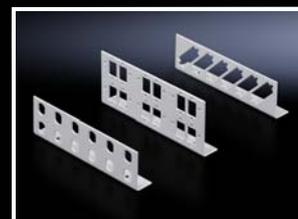
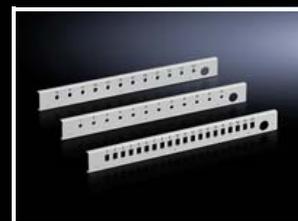
#### Colour:

– RAL 7035

#### Supply includes:

– Patch panel  
– Assembly parts

| For couplings                 | Number of locations single/duplex | Max. no. of patch panels per housing | Packs of | Model No.       |
|-------------------------------|-----------------------------------|--------------------------------------|----------|-----------------|
| ST                            | 12                                | 2                                    | 2 pc(s). | <b>7462.000</b> |
| SC<br>E-2000<br>E-2000 duplex | 12 / 6                            | 2                                    | 2 pc(s). | <b>7463.100</b> |
| SC duplex                     | 6                                 | 2                                    | 2 pc(s). | <b>7463.200</b> |



# 482.6 mm (19") installation system

## LSA connection system



### Support unit, 3 U

#### for LSA-Plus strips, max. 150 paired wires

To accommodate a maximum of 15 LSA-Plus strips (each with 10 paired wires). 3 x 5 LSA-Plus connection strips 2/10, series 2, may be installed horizontally. Strip length 124 mm, height pitch pattern 22.5 mm. The support unit may be integrated in all 482.6 mm (19") mounting levels. The mounting level is recessed 75 mm behind the 482.6 mm (19") flanges. Integral shunting rings enable tidy routing and distribution of the telecommunication cables.

**Material:**

- Stainless steel

**Supply includes:**

- Support unit, 8 shunting rings

| Units U | Model No. |
|---------|-----------|
| 3       | 7050.100  |



### Accommodation system, 2 U

#### for LSA installation kit

To accommodate LSA support systems within the 482.6 mm (19") mounting level.

**Material:**

- Sheet steel

**Surface finish:**

- Spray-finished

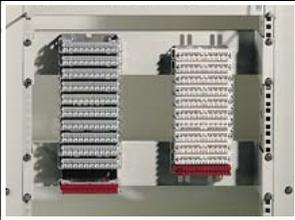
**Colour:**

- RAL 7035

**Supply includes:**

- Assembly parts

| Units U | Depth mm | Packs of | Model No. |
|---------|----------|----------|-----------|
| 2       | 98.5     | 2 pc(s). | 7050.035  |



## Handle set

### for Comfort Panel

For external mounting on corner pieces, also suitable for retro-fitting.

#### Material:

- Handle tube: Aluminium
- Handle holder: Die-cast zinc
- Covers: Polyamide

#### Surface finish:

- Handle tube: Natural anodised
- Handle holder: Powder-coated

#### Colour:

- Handle holder: RAL 7024
- Covers: Similar to RAL 7024

#### Supply includes:

- Handle tube, Ø 20 mm
- 2 handle holders
- 2 covers
- Assembly parts

#### For horizontal mounting

| With front panel width | Packs of | Model No.       |
|------------------------|----------|-----------------|
| 482.6 mm (19")         | 1 pc(s). | <b>6375.010</b> |

#### Note:

- Shorter heights and widths can be achieved by cutting the handle tube to length
- For enclosures with 74 mm installation depth, cannot be mounted on the same side as the support arm connection



#### Accessories:

- Clipboard, see page 1106
- Display board, see page 1106



## Handle set

### for Optipanel

For external mounting on corner pieces, also suitable for retro-fitting.

#### Material:

- Handle tube: Aluminium
- Handle holder: Die-cast zinc
- Covers: Polyamide

#### Surface finish:

- Handle tube: Natural anodised
- Handle holder: Powder-coated

#### Colour:

- Handle holder: RAL 7035
- Covers: RAL 7024

#### Supply includes:

- Handle tube, Ø 25 mm
- 2 handle holders
- 2 covers
- Assembly parts

#### For horizontal mounting

| With front panel width | Packs of | Model No.       |
|------------------------|----------|-----------------|
| 482.6 mm (19")         | 1 pc(s). | <b>6385.010</b> |

#### Note:

- Shorter heights and widths can be achieved by cutting the handle tube to length
- For enclosures with 100 mm installation depth, cannot be mounted on the same side as the support arm connection



#### Accessories:

- Clipboard, see page 1106
- Display board, see page 1106



# Handles



## Handle set

For vertical and horizontal mounting on all surfaces.

Overall length: 420 mm

### Material:

- Handle tube: Aluminium
- Tube holder: Die-cast zinc

### Surface finish:

- Handle tube: Natural anodised

### Colour:

- Tube holder: RAL 7035

### Supply includes:

- 4 tube holders
- 2 handle tubes

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>2389.000</b> |



### Accessories:

- Clipboard, see page 1106
- Display board, see page 1106



## TP aluminium strip

For retrofitting externally on:

- TP three-part/two-part
- TP one-piece console
- May be mounted on all enclosures/covers with 20 mm fold height (max. metal thickness 2 mm)

Length: 1750 mm (easily cut to length for other dimensions)

Sufficient for desk sections and consoles:

- 3 x width 600 mm
- 2 x width 800 mm
- 1 x width 1000 mm + 1 x width 600 mm
- 1 x width 1200 mm
- 1 x width 1600 mm

| Length mm | Model No.       |
|-----------|-----------------|
| 1750      | <b>6731.120</b> |

### Material:

- Aluminium strip: Extruded aluminium section
- Cover caps: Plastic

### Surface finish:

- Aluminium strip: Natural anodised

### Colour:

- Cover caps: RAL 7035

### Supply includes:

- 1 aluminium section
- 6 plastic cover caps
- Drilling template
- Assembly parts

## Handles

For horizontal or vertical attachment to the enclosure panel of:

- Comfort Panel
- Optipanel
- Other enclosures or
- Surfaces

Mounting holes and surfaces without fins are required for assembly purposes.

For the Comfort Panel version with fins, selectable via configurators at [www.rittal.com/configurators](http://www.rittal.com/configurators), corresponding milling work may be carried out. To this end, please specify "Prepared for handle set 6107.XXX" for the command panel.

### Material:

- Handle holder: Die-cast zinc
- Cover bungs: Plastic
- Handle tube: Aluminium

### Surface finish:

- Handle tube: Powder-coated

### Colour:

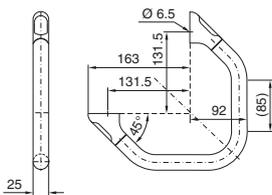
- Handle holder: RAL 7035
- Cover bungs: Similar to RAL 7035
- Handle tube: Similar to RAL 9006

## Corner handle

### Supply includes:

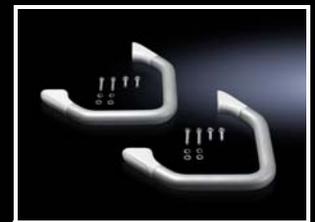
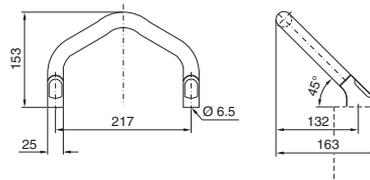
- 4 handle holders
- 2 handle tubes
- Assembly parts

Mounting on enclosure corner



| Packs of | Model No.       |
|----------|-----------------|
| 2 pc(s). | <b>6107.000</b> |

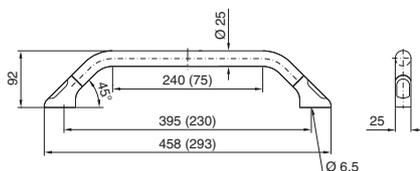
External mounting on straight surface (90° rotation of handle holder)



## U handle

### Supply includes:

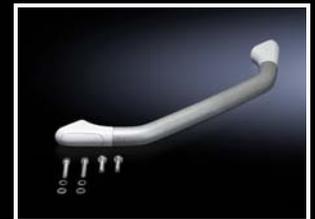
- 2 handle holders
- 1 handle tube
- Assembly parts



| For front panel size | Packs of | Model No.       |
|----------------------|----------|-----------------|
| ≥ 7 U                | 1 pc(s). | <b>6107.100</b> |
| 482.6 mm (19")       | 1 pc(s). | <b>6107.200</b> |

### Accessories:

- For 6107.200: Clipboard, see page 1106
- For 6107.200: Display board, see page 1106



### Note:

- Dimensions in brackets for front size 7 U

# External mounting accessories



## Clipboard

For securing operating instructions or plans (A4 size) at eye level. Prepared for mounting on the right-hand side; mounting on the left is also possible by unscrewing and moving the clip part. For mounting purposes, a straight tube length of  $\geq 200$  mm,  $\varnothing 20$  mm or  $\varnothing 25$  mm is required.

### Material:

- Clipboard: Sheet steel
- Clip part: Aluminium

### Surface finish:

- Clip part: Natural anodised

### Colour:

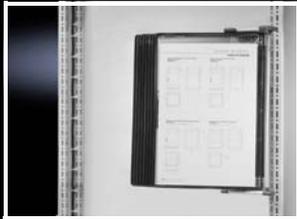
- RAL 7035

| Width mm | Height mm | Packs of | Model No.       |
|----------|-----------|----------|-----------------|
| 225      | 315       | 1 pc(s). | <b>6013.000</b> |



### Also required:

- Handle set 2389.000, see page 1104 or
- Handle set for Comfort Panel, see page 1103 or
- Handle set for Optipanel, see page 1103 or
- U handle 6107.200, see page 1105



## Display board

### with wall bracket

To accommodate test plans, documents etc. in A4 format.

### Mounting

- On surfaces
- On a 25 mm pitch pattern of the enclosure frame or rail system
- On handle set  $\varnothing 20$  mm or  $\varnothing 25$  mm

### Supply includes:

- Display board
- Wall bracket
- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>6013.100</b> |



### Accessories:

- Handle set 2389.000, see page 1104 or
- Handle set for Comfort Panel, see page 1103 or
- Handle set for Optipanel, see page 1103 or
- U handle 6107.200, see page 1105

# Front assembly

## Front panel

for Comfort Panel and Optipanel

**Material:**

- Aluminium, 3 mm

**Surface finish:**

- Natural anodised

**Note:**

- Mounting kits included with the supply of 520 mm wide standard enclosures.

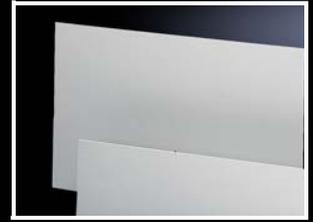
**With threaded bolts M5**

| Width mm    | Height mm     | Model No.       |
|-------------|---------------|-----------------|
| 482.6 (19") | 155.0 (3.5 U) | <b>6027.010</b> |
| 482.6 (19") | 310.3 (7 U)   | <b>6028.010</b> |
| 520         | 400           | <b>6028.014</b> |
| 520         | 500           | <b>6028.015</b> |
| 520         | 600           | <b>6028.016</b> |



**Also required:**

- Mounting kit for Comfort Panel 6053.800, see page 1108
- Mounting kit for Optipanel 6053.000/.500, see page 1108



## Front panel

for Compact Panel

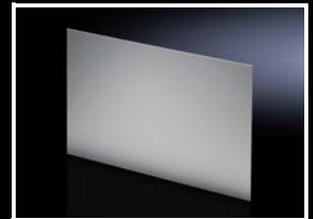
**Material:**

- Aluminium, 3 mm

**Surface finish:**

- Natural anodised

| Size W x H mm | To fit Compact Panel | Model No.       |
|---------------|----------------------|-----------------|
| 178 x 200     | 6340.000             | <b>6028.500</b> |
| 178 x 350     | 6340.100             | <b>6028.510</b> |
| 252 x 200     | 6340.300             | <b>6028.530</b> |
| 252 x 350     | 6340.400             | <b>6028.540</b> |



## Cover plate

for support arm connection

For secure sealing of an unrequired support arm connection in the enclosure.

**Material:**

- Sheet steel

**Supply includes:**

- Seal and assembly parts

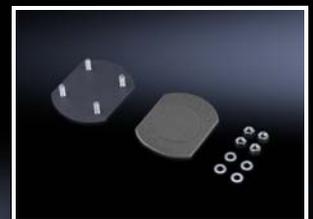
**Note:**

With

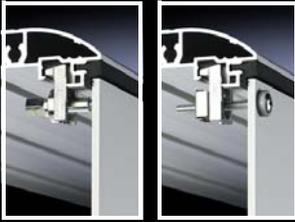
- Comfort Panel
- Optipanel
- Compact Panel

If there are already 2 support arm cut-outs provided, a cover plate is included with the supply of the enclosure

| Support arm connection | Surface finish             | Model No.       |
|------------------------|----------------------------|-----------------|
| □ 90 x 71 mm           | Spray finished in RAL 7024 | <b>6505.200</b> |
| ∅ 130 mm               | Zinc-plated, passivated    | <b>6505.500</b> |
| □ 120 x 65 mm          | Zinc-plated, passivated    | <b>6505.100</b> |



# Front assembly



## Mounting kit

### for Optipanel

- For installation of
- Aluminium front panels
  - Command panels
  - Keyboards

### for drilled holes

#### Supply includes:

- Packs of 30 retaining claws, cage nuts, screws and sealing washers

### for threaded bolts

#### Supply includes:

- Packs of 10 retaining claws and cap screws

### for screw clamp

#### Supply includes:

- Packs of 4 pressure plates, 4 attachment strips

#### Note:

- The command panels MP 377 12" Touch, MP 377 15" Touch are installed using an adaptor plate

| For front panels  | Thread | Model No.       |
|-------------------|--------|-----------------|
| Other             | M4     | <b>6058.000</b> |
| Rittal and others | M5     | <b>6053.000</b> |

| For front panels  | Thread | Model No.                    |
|-------------------|--------|------------------------------|
| Other             | M4     | <b>6058.500</b>              |
| Rittal and others | M5     | <b>6053.500<sup>1)</sup></b> |

<sup>1)</sup> For the installation of TFT monitors 15", 17" and 19"

| For direct installation of                                                                                                                                                                         | Model No.       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Siemens Sinumerik:<br>OP 010, OP 010C, OP 012, OP 015,<br>OP 019, MCP 483, PP 012, Qwerty 19",<br>KB 483C, TP 015A                                                                                 | <b>6053.210</b> |
| Siemens Simatic:<br>Panel PC 477C, 577C, 677C:<br>12.1"-Touch, 15.1"-Touch,<br>12.1"-Key, 15.1"-Key, 19"-Touch <sup>1)</sup> ,<br>22"-Touch <sup>1)</sup> , Flat Panel <sup>1)</sup> 12", 15", 19" |                 |
| Industrial Flat Panel:<br>IFP 1200 Touch, IFP 1500 Touch,<br>IFP 1200 Key, IFP 1500 Key,<br>IFP 1900 Touch, IFP 2200 Touch                                                                         |                 |
| Industrial Thin Client:<br>ITC 1200, ITC 1500, ITC 1900,<br>ITC 2200                                                                                                                               |                 |

The mounting set can only be installed vertically  
<sup>1)</sup> 2 packs are required



## Mounting kit

### for Comfort Panel

For the installation of aluminium front panels, command panels and keyboards.

#### Supply includes:

- 6053.800:  
20 each of retaining claws, cage nuts, screws, nuts and sealing washers
- 6053.300:  
8 medium retaining claws, 8 short retaining claws, 4 long retaining claws.

#### Note:

- The command panels listed are merely a reduced selection of standard units from various manufacturers which support direct installation into the Comfort Panel.

**1** 6053.800

**2** 6053.300

### For drilled holes/bolts/front panel mounting from behind

| Thread | Model No.       |
|--------|-----------------|
| M5     | <b>6053.800</b> |

### For direct installation of e.g. operating fronts, monitors, panel PCs

| For installation of                                                                                                                                             | Model No.       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Siemens Sinumerik:<br>OP 010, OP 010 C, OP 012,<br>OP 015, OP 015 A, OP 019,<br>MCP 483 C, MCP 483, PP 012,<br>PP 012 Erweiterung, MCP,<br>KB 483 C, Qwerty 19" | <b>6053.300</b> |
| Siemens Simatic:<br>TP 1500 Comfort, TP 1900 Comfort,<br>TP 2200 Comfort, KP 900 Comfort,<br>KP 1200 Comfort, KTP 1000 Basic,<br>KTP 1500 Basic                 |                 |
| Panel PC 477C, 577C, 677C:<br>12.1" Key, 12.1" Touch, 15.1" Key,<br>15.1" Touch, 19" Touch, 22" Touch <sup>1)</sup>                                             |                 |
| MP 377 12" Touch, MP 377 15" Touch,<br>MP 377 19" Touch                                                                                                         |                 |
| Industrial Flat Panel:<br>IFP 1200 Touch, IFP 1500 Touch,<br>IFP 1200 Key, IFP 1500 Key,<br>IFP 1900 Touch, IFP 2200 Touch                                      |                 |
| Industrial Thin Client:<br>ITC 1200, ITC 1500, ITC 1900,<br>ITC 2200                                                                                            |                 |
| B & R:<br>Automation Panel, Panel PC                                                                                                                            |                 |

<sup>1)</sup> 2 packs are required

## TFT monitor

Installation variant for surfaces and command panels.

### Benefits:

- High-quality industrial design
- Reduced installation work thanks to integral front frame
- No additional ventilation required
- Very small installation depth (45 mm)

### Material:

- Front frame: Aluminium

### Surface finish:

- Powder-coated

### Colour:

- RAL 7035

### Protection category IP to IEC 60 529:

- IP 65 (at the front)

### Supply includes:

- Seal, hex nuts (for installation in surfaces), VGA cables, threaded bolts M5 for rear mounting.
- Touch variants additionally with integral connection cable and driver CD-ROM.

| Size | Width mm | Height mm | Model No.             |                 |
|------|----------|-----------|-----------------------|-----------------|
|      |          |           | Touch                 |                 |
|      |          |           | Without <sup>1)</sup> | resistive, USB  |
| 15"  | 430      | 343       | <b>6450.010</b>       | <b>6450.070</b> |
| 17"  | 482.6    | 354.8     | <b>6450.020</b>       | -               |
| 19"  | 482.6    | 399.3     | <b>6450.170</b>       | -               |

<sup>1)</sup> With anti-reflection coated safety glass screen

### Note:

- Other variants as resistive touchscreen with serial or USB interface are also possible



### Also required:

- Mounting kit 6053.800 (when installing in Comfort Panel), see page 1108
- Mounting kit 6053.500 (when installing in Optipanel), see page 1108
- Power pack 6450.050, see page 1109 and
- Connection cable 6450.060, see page 1109

| Technical specifications                                   | 15"                               | 17"                                  | 19"                               |
|------------------------------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|
| Resolution of display (max. pixels)                        | 1024 x 768                        | 1280 x 1024                          | 1280 x 1024                       |
| Resolution of controller/million colours                   | VGA-XGA/16.7 <sup>1)</sup>        | VGA-SXGA/16.7                        | VGA-SXGA/16.7                     |
| Brightness cd/m <sup>2</sup>                               | 400                               | 350                                  | 350                               |
| Contrast ratio                                             | 700:1                             | 1000:1                               | 1000:1                            |
| H-Sync. kHz/V-Sync. Hz                                     | 31.4 - 80/60 - 75                 | 31.4 - 80/60 - 75                    | 31.5 - 80/60 - 75                 |
| Reading angle horizontal (right/left)                      | 80°/80°                           | 85°/85°                              | 85°/85°                           |
| Reading angle vertical (top/bottom)                        | 70°/70°                           | 80°/80°                              | 85°/85°                           |
| Backlight/operating time h                                 | LED/min. 50000                    |                                      |                                   |
| On-screen display (OSD)                                    | Operating buttons on the rear     |                                      |                                   |
| VGA input/DVI-D                                            | VGA (D-SUB HD 15-pole)/DVI-D jack |                                      |                                   |
| Rated voltage V (DC)                                       | 12                                |                                      |                                   |
| Power consumption (W)                                      | 15                                | 20                                   | 20                                |
| Operating temperature/storage temperature                  | 0 °C...+50 °C/<br>-40 °C...+85 °C | 0 °C...+50 °C/<br>-30 °C...+85 °C    | 0 °C...+50 °C/<br>-20 °C...+60 °C |
| Max. humidity during operation and storage, non-condensing | 90% relative humidity for 240 h   | 80% rel. humidity for 300 h at 50 °C | 80 % relative humidity            |

<sup>1)</sup> For 6450.070: 16.2

## Power pack

### for TFT monitor

- With IEC 60 320 connector C14 for C13 connection
- Integral cable (1.5 m) for connecting to the TFT monitor

Dimensions, W x H x D: 112 x 31 x 47 mm

### Technical specifications:

- Input voltage: 100 - 240 V
- Output voltage: 12 V (DC)
- Operating temperature: +10 °C...+40 °C
- Storage temperature: -10 °C...+80 °C

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>6450.050</b> |

### Material:

- Enclosure: Plastic

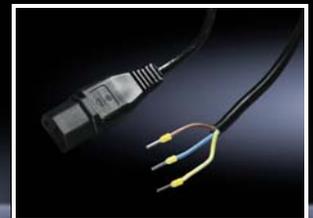
## Connection cable

### for power pack

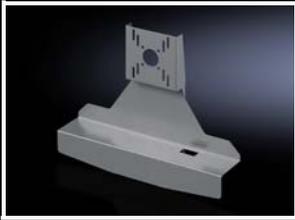
With IEC 320 socket C13 at one end for C14 connectors.

Length: 1.5 m

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>6450.060</b> |



# Keyboards, supports and drawers



## TFT holder

Suitable for mounting TFTs with VESA 75/100 adaptation up to 21" on

- Attachment CP 40, 6501.070, see page 187
- Attachment CP 60 for support arm connection
  - 120 x 65 mm, 6206.360, see page 195
- Vertical support arm via tilting adaptor +100°/-60°, 6206.460, see page 209

### Material:

- Sheet steel

### Surface finish:

- Spray-finished

### Colour:

- RAL 7024

| Dimensions mm     | Packs of | Model No.       |
|-------------------|----------|-----------------|
| 477 x 372 x 110.5 | 1 pc(s). | <b>2383.030</b> |

## Keyboard, pull-out

### with integral trackball

Super-slimline keyboard with cursor keys and trackball. The handle also serves as a hand rest. The 10° angled pullout ensures ergonomic working.

For installation in:

- Any sufficiently large surface (e.g. door, side panel)
- Front panels
- Directly in a suitably sized Comfort Panel and Optipanel, selectable via configurators at [www.rittal.com/configurators](http://www.rittal.com/configurators)

### Technical specifications:

Keyboard:

- 84 short-stroke keys, IBM-AT compatible (MF2), incl. cursor keys
- With integral trackball
- Interface: 2 x USB
- Operating temperature: +5 °C...+50 °C
- Storage temperature: -10 °C...+60 °C
- Humidity: max. 95 % (non-condensing)

| Keyboard layout | Packs of | Model No.       |
|-----------------|----------|-----------------|
| German          | 1 pc(s). | <b>6002.130</b> |

### Material:

- Sheet steel

### Surface finish:

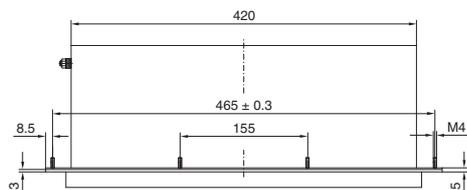
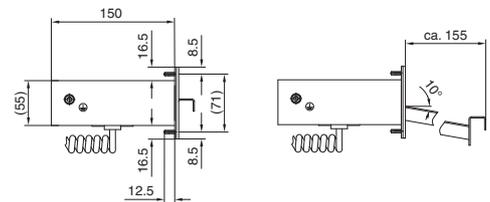
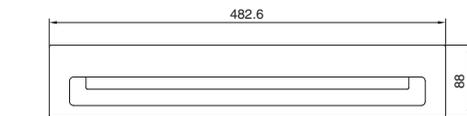
- Front panel: Powder-coated

### Colour:

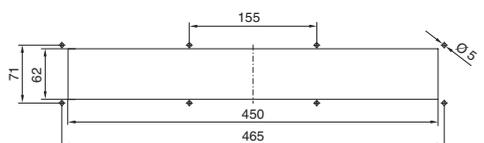
- RAL 7035

### Protection category IP to IEC 60 529:

- IP 65 (at the front, sealed)



Mounting cut-out



# Keyboards, supports and drawers

## Built-in keyboard 482.6 mm (19")/4 U

### with integral touchpad

The integral touchpad eliminates the need to install an additional, correct protection category mouse, which in turn reduces cabling. The short stroke keys are easily identified by edge embossing, less force is required to operate them, and they have a good tactile action

#### Benefits:

- The separate number pad enables the parameters to be entered quickly
- Sealed, wipeable surface finish
- High level of mechanical and chemical resistance as per DIN 42 115.

#### Technical specifications:

- Number of keys: 105
- Front panel dimensions: 482.6 x 177.0 mm (19" x 4 U)
- Keyboard depth: 30 mm
- Installation depth: 27 mm
- 12 M5 x 20 threaded bolts at the rear
- Actuation travel/force: 0.3 mm/2.6 N
- Service life: 3 million switching cycles
- Operating temperature: -40 °C...+90 °C
- Touchpad resolution, capacitive: 40 pixels/mm
- Interface: USB

#### Material:

- Front panel: Aluminium

#### Protection category IP to IEC 60 529:

- IP 65 (at the front)

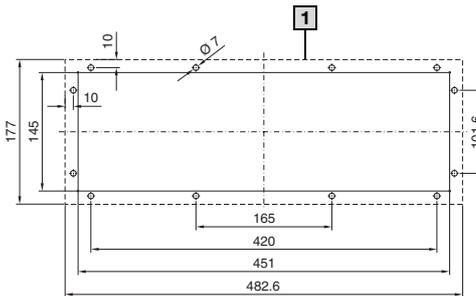
#### Supply includes:

- USB connection cable, length 1.8 m
- Seal
- Drilling template
- Assembly parts for surfaces

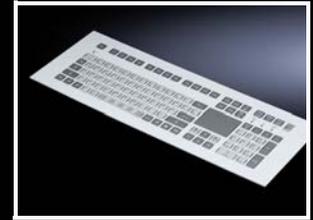
| Keyboard layout | Packs of | Model No. |
|-----------------|----------|-----------|
| German          | 1 pc(s). | 6446.030  |

#### ! Also required:

- Mounting kit 6053.800 (when installing in Comfort Panel), see page 1108
- Mounting kit 6053.500 (when installing in Optipanel), see page 1108



1 Support surface



## Fold-out tray

### for keyboard and mouse

For installation in

- 600 and 800 mm wide doors
- 482.6 mm (19") swing frames and enclosures

Standard double-bit lock insert may be exchanged for 41 mm lock inserts, type C, see page 941

#### Material:

- Flap: Sheet steel
- Side parts: Cast aluminium
- Tray: Extruded aluminium section
- Double-bit lock insert: Stainless steel

#### Surface finish:

- Flap, side parts: Textured paint
- Tray: Natural anodised

#### Colour:

- Flap, side parts: RAL 7035

#### Protection category IP to IEC 60 529:

- IP 55

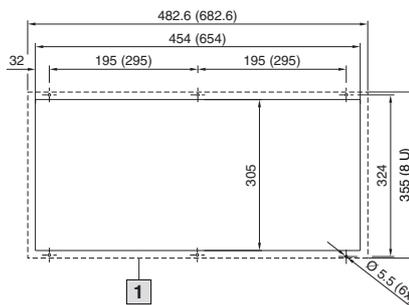
#### Protection category NEMA:

- NEMA 12

#### + Accessories:

- Mousepad support, pull-out, see page 1112

#### Mounting cut-out



1 Support surface



| For door width mm | External dimensions W x H x D mm | Installation depth mm | Max. keyboard dimensions W x H x D mm                                          | Model No. |
|-------------------|----------------------------------|-----------------------|--------------------------------------------------------------------------------|-----------|
| 600               | 482.6 (19") x 355 (8 U) x 126    | 93                    | 405 x 45 x 245<br>405 x 45 x 190 <sup>1)</sup>                                 | 2379.600  |
| 800               | 682.6 x 355 (8 U) x 126          | 93                    | 605 x 45 x 245<br>605 x 45 x 190 <sup>1)</sup><br>475 <sup>1)</sup> x 45 x 245 | 2379.800  |

<sup>1)</sup> Maximum keyboard size with holder for mouse

# Keyboards, supports and drawers



## Support for mousepad, pull-out with mouse holder

For screw-fastening into the fold-out tray 2379.600/2379.800, see page 1111. To fit all standard mousepads up to 250 x 205 mm.

**Colour:**

- RAL 7035

**Supply includes:**

- Assembly parts

| Packs of | Model No.       |
|----------|-----------------|
| 1 pc(s). | <b>2379.900</b> |



## Utility bar, vertically hinged

To support standard keyboards during programming and servicing work. Mounting distance of utility bars for problem-free insertion: at least 300 mm. Depth adequate for keyboards up to max. 210 mm.

For mounting beneath

- Comfort Panel<sup>1)</sup>
- Optipanel<sup>2)</sup>
- Any sufficiently large surface, such as:
  - Worktops IW
  - Command panel AX with handle strips

on

- Vertical surfaces (doors/side panels)

Min. front panel width

<sup>1)</sup> 385 mm

<sup>2)</sup> 405 mm

After use, the utility bars fit securely and neatly under the mounting surface, thus giving the operator more space to move around.

| Packs of | Model No.       |
|----------|-----------------|
| 2 pc(s). | <b>6514.200</b> |

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts



# Keyboards, supports and drawers

## Drawer 482.6 mm (19")/2 U for keyboard and mouse

For installation in:

- Any sufficiently large surface (e.g. door, side panel)
- 482.6 mm (19") system punchings
- Front panels
- Directly in a suitably sized Comfort Panel and Optipanel, selectable via configurators at [www.rittal.com/configurators](http://www.rittal.com/configurators)

Suitable for:

- Accommodation of keyboards up to max. 390 x 32 x 139 mm
- Support of standard commercially-available mouse or trackball

**Version:**

- Drawer: With stay
- Front panel: With security lock (lock no. 12321) and handle strip

| Width mm    | U | Depth mm | Model No. |
|-------------|---|----------|-----------|
| 482.6 (19") | 2 | 150      | 6002.000  |

**Material:**

- Drawer housing: Sheet steel
- Drawer and front panel: Aluminium

**Surface finish:**

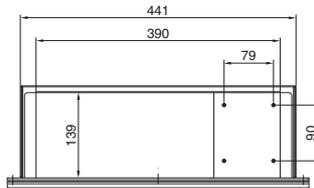
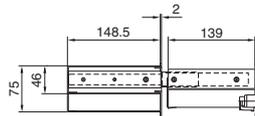
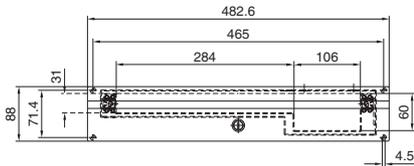
- Drawer housing: Zinc-plated
- Drawer and front panel: Natural anodised

**Protection category IP to IEC 60 529:**

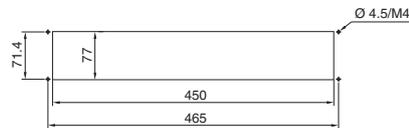
- IP 54

**Supply includes:**

- Assembly parts for installation in Comfort Panel/Optipanel command panels



Mounting cut-out  
(for installation in surfaces)



# Keyboards, supports and drawers



## Drawer for keyboard and mouse

### with mousepad support

- For installation in:
- Any sufficiently large surface (e.g. door, side panel)
  - Front panels

- Suitable for accommodating:
- Keyboards up to a maximum of 460 x 42 x 170 mm
  - Standard mouse and mousepad

### Version:

- Drawer and housing: With side pull-out mousepad support and tray
- Front panel: With 3 mm double-bit lock insert, folds out as handrest

| Packs of | Model No. |
|----------|-----------|
| 1 pc(s). | 6003.000  |

### Material:

- Drawer and housing: Sheet steel
- Front panel: Aluminium

### Surface finish:

- Drawer and housing: Spray-finished
- Front panel: Natural anodised

### Protection category IP to IEC 60 529:

- IP 54

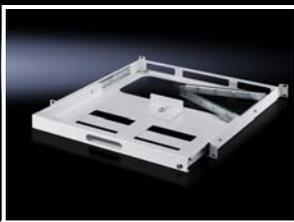
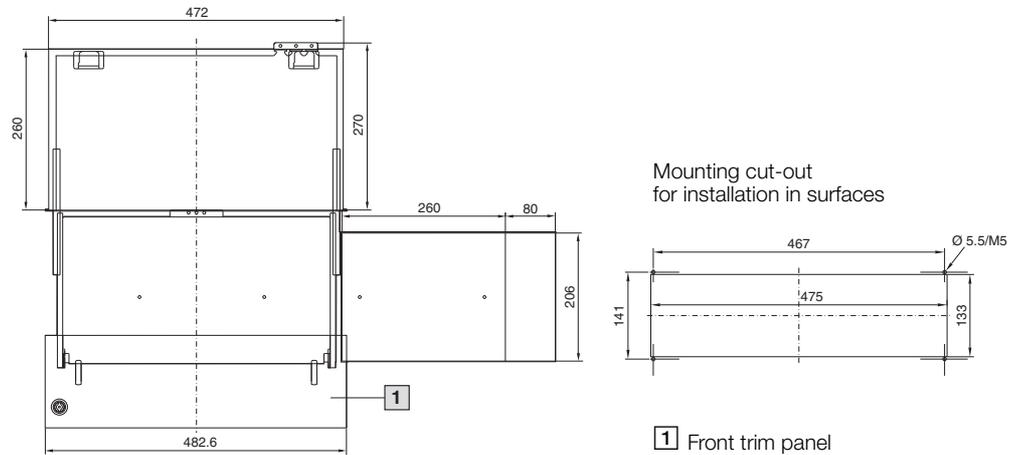
### Supply includes:

- Assembly parts



### Accessories:

- Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, see page 941



## Keyboard drawer 1 U

### for two 482.6 mm (19") mounting levels

This space-saving keyboard drawer is screw-fastened to the front and rear 482.6 mm (19") mounting angles. The installation spacing is infinitely adjustable from 460 – 750 mm. It is fully extendible, lockable, with strain relief and hinged cable support. The drawer is suitable for accommodating 482.6 mm (19") keyboards.

### Interior dimensions:

- W x H x D: approx. 420 x 40 x 220 mm

### Material:

- Sheet steel

### Colour:

- RAL 7035

### Supply includes:

- Assembly parts, excluding keyboard

### Note:

- Monitor/keyboard unit, 1 U, see page 822

| Distance between levels mm | Model No. |
|----------------------------|-----------|
| 460 – 750                  | 7281.200  |

# Keyboards, supports and drawers

## Keyboard drawer 2 U

### for one 482.6 mm (19") mounting level

For keyboards up to 430 mm wide and 250 mm deep with the front panel folded over.

Height: 2 U

#### Material:

- Sheet steel with aluminium front

#### Surface finish:

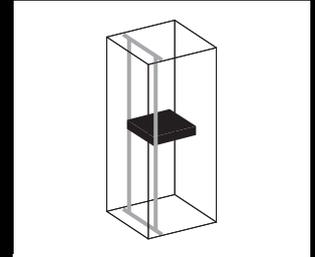
- Spray-finished

#### Supply includes:

- Lockable drawer with handles
- Folding front
- Pull-out mousepad
- Mouse support
- Practical cable entry and strain relief

| Colour   | Packs of | Model No.       |
|----------|----------|-----------------|
| RAL 7035 | 1 pc(s). | <b>7281.035</b> |
| RAL 9005 | 1 pc(s). | <b>5302.205</b> |

Installation depth: 390 mm



## Support for mousepad

### for command panels and surfaces

The angle of the mousepad support is individually adjustable. Two holes are needed on the enclosure for attachment purposes.

#### Material:

- Sheet steel

#### Surface finish:

- Zinc-plated

#### Supply includes:

- Assembly parts

| Weight kg | Packs of | Model No.       |
|-----------|----------|-----------------|
| 1.0       | 1 pc(s). | <b>2381.000</b> |



#### Accessories:

- Holder for mouse, see page 1116



## Keyboard support

### for command panels or surfaces

#### Benefits:

- Adjustable to different keyboard depths via a simple slide function
- Connection to command panels with support arm connection at the top or bottom
- Easily adjustable tilt angle
- Open support at the side prevents dirt from being deposited

#### Installation options:

- Operating housing AX with handle strips
- Operating housing AX for desktop TFT up to 24"
- External mounting on vertical surfaces and beneath horizontal surfaces

#### Technical specifications:

- Support surface fully depth adjustable from 128 – 228 mm

#### Material:

- Sheet steel
- Hand rest: Extruded aluminium section

#### Surface finish:

- Textured paint
- Handrest: Natural anodised

#### Colour:

- RAL 7035

| Width mm | Weight kg | Packs of | Model No.       |
|----------|-----------|----------|-----------------|
| 430      | 3.0       | 1 pc(s). | <b>6321.010</b> |

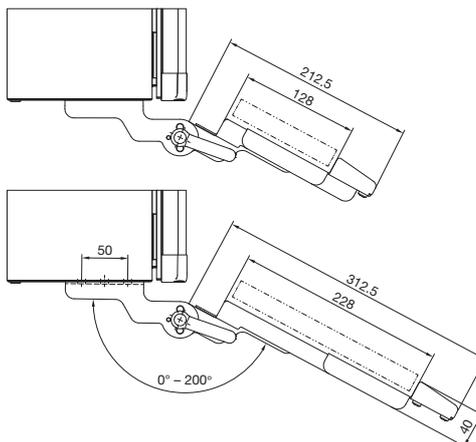
#### Supply includes:

- Support fully preassembled
- Nylon tape for attaching the keyboard
- Assembly parts



#### Accessories:

- Mousepad support, vertically hinged, see page 1116



# Keyboards, supports and drawers



## Mousepad support, vertically hinged

For mounting on the left/right, beneath the keyboard support. Latches home automatically, both when retracted and extended. With mounting holes for holder for mouse 2382.000.

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

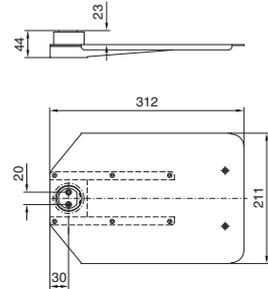
**Supply includes:**

- Assembly parts and mousepad, stuck on with adhesive

| Packs of | Model No. |
|----------|-----------|
| 1 pc(s). | 2383.020  |

**+** **Accessories:**

- Holder for mouse, see page 1116



## Holder for mouse

To fit mousepad support and for secure accommodation of a standard mouse.

**Material:**

- Sheet steel

**Surface finish:**

- Zinc-plated

**Supply includes:**

- Assembly parts

| Packs of | Model No. |
|----------|-----------|
| 1 pc(s). | 2382.000  |



## Paper removal flap

**For installation in surfaces**

Facilitates easy removal of pages from the printer without opening the enclosure door. Acrylic glazed flap with magnetic lock.

| Paper removal flap | Colour   | Packs of | Model No. |
|--------------------|----------|----------|-----------|
| A4                 | RAL 7015 | 1 pc(s). | 6903.200  |



## Base

**for tubular door frame**

The space-saving alternative to component shelves for accommodating tower PCs (maximum 20 kg). For screw-fastening to the tubular door frame of 600 mm wide enclosures.

**Load capacity:**

- 20 kg

**Material:**

- Sheet steel

**Surface finish:**

- Spray-finished

**Colour:**

- RAL 7015

**Supply includes:**

- Retaining strap and assembly parts

| Width x height x depth mm | Packs of | Model No. |
|---------------------------|----------|-----------|
| 445 x 159 x 230           | 1 pc(s). | 6902.950  |

**!** **Also required:**

- Support strip for direct screw-fastening to the tubular door frame, see page 952

## Interface extension with wall connection and built-in RJ45 module

For extending the internal enclosure interfaces – e.g. of industrial PCs and switches – up to the outside of the enclosure. The wall connection only needs the same space as a switch.

### Benefits:

- Rapid access for maintenance work
- The protection category of the enclosure is preserved
- The lock nut cuts automatically into the spray-finish or eloxal layer, thereby creating a conductive connection
- Captive protective cap

### Material:

- Housing: Brass
- Cover: Aluminium
- Seal: Polyamide

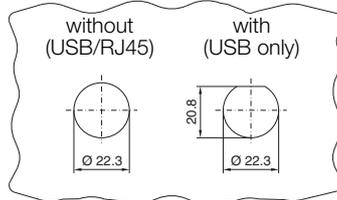
### Surface finish:

- Housing: Nickel-plated
- Cover: Natural anodised

### Protection category IP to IEC 60 529:

- IP 66/67 (with protective cap closed)

Anti-twist guard



Material thickness: 1 – 6 mm



| Version | Wall connection | Inside           | Length<br>m | Packs of | Model No.       |
|---------|-----------------|------------------|-------------|----------|-----------------|
| USB 2.0 | Type A jack     | Type A connector | 0.5         | 1 pc(s). | <b>2482.210</b> |
|         |                 |                  | 1.0         | 1 pc(s). | <b>2482.220</b> |
|         |                 |                  | 2.0         | 1 pc(s). | <b>2482.230</b> |
| RJ45    | Jack            | Connector        | 0.5         | 1 pc(s). | <b>2482.700</b> |
|         |                 |                  | 1.0         | 1 pc(s). | <b>2482.710</b> |
|         |                 |                  | 2.0         | 1 pc(s). | <b>2482.720</b> |
| RJ45    | Jack            | Jack             | –           | 1 pc(s). | <b>2482.730</b> |

## Interface flap

### for RC circuit-breakers

According to standard EN 60 204-1, all circuits with a rated current of  $\leq 20$  A that supply sockets in or on machine enclosures must be fused with a residual-current circuit-breaker with a rated differential current of  $\leq 30$  mA. Prepared for the installation of standard, 2-pole RCBO circuit-breakers.

### Applications:

- As programming interface for controllers
- As maintenance access for networks
- For temporary connection of additional equipment
- For quick connection to existing network structures
- For programming and maintenance of integral components

### Version:

- Spring-action terminals max. 2 x 2.5 mm, connection at rear

### Benefits:

- Protection against fault currents and overload
- Standard-compliant fuse to EN 60 204
- The RC switch may be reset without opening the enclosure
- Spring mechanism raises the unlocked cover by 30°, ensuring that you do not forget to close the cover

### Functions:

- A snap fastener ensures reliable sealing. This may be locked if required.

### Material:

- Mounting frame: Plastic PBT (black)
- Plastic flap: Polycarbonate (semi-transparent)

### Protection category IP to IEC 60 529:

- IP 65

### Supply includes:

- Interface flap, complete, consisting of plastic frame, socket (VDE), RJ45 (jack/jack, Cat 5e) and cut-out for RC circuit-breaker
- Knockout provided for USB A (jack/jack)
- 3 mm double-bit with slot-in rotary knob

### Note:

- Interface flap may only be used with fitted RC circuit-breaker



| Width<br>mm | Height<br>mm | Required<br>mounting cut-out<br>mm | Installation<br>depth<br>mm | Rated operating<br>voltage<br>V, ~, Hz | Rated current<br>A | Packs of | Model No.       |
|-------------|--------------|------------------------------------|-----------------------------|----------------------------------------|--------------------|----------|-----------------|
| 131         | 127          | 117 x 91                           | 70                          | 250, 1~, 50/60                         | 10 - 16            | 1 pc(s). | <b>2482.600</b> |

# Interfaces



## Interface flap, modular

For universal use in all situations where rapid access to interfaces and sockets is needed. The affected enclosure remains closed and is therefore protected from ambient influences and unauthorised access.

Space-saving installation e.g.

- in **small enclosures and compact enclosures** as a programming interface for controllers
- in **IT and industrial distributors** as maintenance access for networks
- in **PC enclosures and console systems** for the temporary connection of additional equipment
- in mobile **industrial workstations** for rapid connection to existing network structures
- in **command panel systems** for programming and maintenance of integral components.

The mounting frame has a flap which snaps into position at various opening angles from 90 to 180°. A snap fastener ensures reliable sealing. This may be locked if required.

### Material:

- Mounting frame and metal flap: Die-cast zinc
- Plastic flap: Polycarbonate (semi-transparent)
- Lock: Polycarbonate, RAL 7024

### Surface finish:

- Mounting frame and metal flap: Matt nickel-plated

### Colour:

- Lock: RAL 7024

### Protection category IP to IEC 60 529:

- IP 65 (with sealed flap and proper assembly)

| Description                                                                                                                                           | cUR | UR | Packs of | Model No.                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----------|------------------------------|
| <b>Mounting frame<sup>1)</sup></b>                                                                                                                    |     |    |          |                              |
| [1] Single, with plastic flap (semi-transparent)                                                                                                      | –   | –  | 1 pc(s). | <b>2482.300</b>              |
| Double, with plastic flap (semi-transparent)                                                                                                          | –   | –  | 1 pc(s). | <b>2482.310</b>              |
| [2] Single, with metal flap                                                                                                                           | ■   | ■  | 1 pc(s). | <b>2482.320</b>              |
| [3] Double, with metal flap                                                                                                                           | ■   | ■  | 1 pc(s). | <b>2482.330</b>              |
| <b>Socket modules</b>                                                                                                                                 |     |    |          |                              |
| [4] Germany (VDE), spring-action terminals max. 2 x 2.5 mm <sup>2</sup> , connection at rear                                                          | –   | –  | 1 pc(s). | <b>2482.400<sup>3)</sup></b> |
| [5] Germany (VDE), screw terminals max. 6 mm <sup>2</sup> , connection at rear, colour: yellow (RAL 1016), for installation in front of master switch | –   | –  | 1 pc(s). | <b>2482.410<sup>3)</sup></b> |
| <b>Interface inserts</b>                                                                                                                              |     |    |          |                              |
| [6] 2 x SUB-D9 (jack/pin)                                                                                                                             | ■   | ■  | 1 pc(s). | <b>2482.500</b>              |
| [7] SUB-D9 (jack/jack)                                                                                                                                | ■   | ■  | 1 pc(s). | <b>2482.510</b>              |
| [8] 2 x USB A (jack/jack)                                                                                                                             | ■   | ■  | 1 pc(s). | <b>2482.540<sup>2)</sup></b> |
| [9] RJ45 (jack/jack, Cat. 5e), SUB-D9 (jack/jack), SUB-D9 (pin/pin)                                                                                   | ■   | ■  | 1 pc(s). | <b>2482.550</b>              |
| [10] 2 x RJ45 (jack/jack, Cat. 5e)                                                                                                                    | ■   | ■  | 1 pc(s). | <b>2482.560<sup>2)</sup></b> |
| [11] USB A (jack/jack), RJ45 (jack/jack, Cat. 5e), SUB-D9 (jack/pin)                                                                                  | ■   | ■  | 1 pc(s). | <b>2482.570<sup>2)</sup></b> |
| [12] Blanking plate (slimline), for individual population, usable area: 45 x 75 mm                                                                    | ■   | ■  | 1 pc(s). | <b>2482.590</b>              |

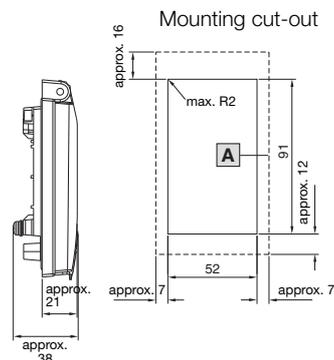
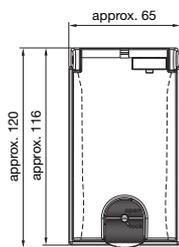
<sup>1)</sup> Electrically conductive

<sup>2)</sup> Conductively linked to mounting frame

<sup>3)</sup> Rated voltage: 250 V, Rated current: 10 – 16 A

All SUB-D interfaces may be rotated while in use

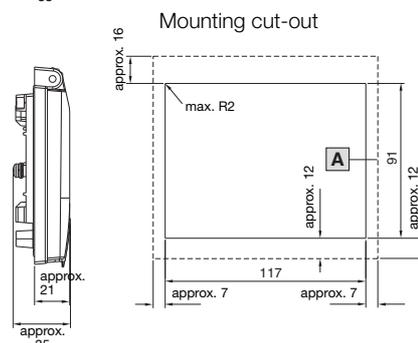
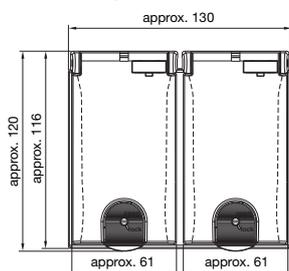
Interface flap, single



Permissible material thickness: 1 – 5 mm

**A** Contact surface

Interface flap, double



# Signal pillars

For real-time display of operating statuses



# Signal pillars at a glance

## Plug-and-play system



### Signal pillar, 3-way LED



For wall/base mounting



For conduit mounting

| Model No. |          |
|-----------|----------|
| 2372.102  | 2372.101 |

- 1 LED steady light component 24 V AC/DC, < 35 mA
- 2 LED steady light component 230 V, < 35 mA
- 3 LED flashing light component 24 V AC/DC
- 4 LED flashing light component 230 V
- 5 Stroboscopic light component 24 V (DC), < 35 mA
- 6 Acoustic component 24 V AC/DC, 95 – 105 dB (continuous tone or pulsating)
- 7 Acoustic component 24 V AC/DC, 102 dB (adjustable volume and choice of 8 sounds)
- 8 Acoustic component 230 V, 95 – 105 dB (continuous tone or pulsating)

- 9 Acoustic component 230 V, 102 dB (adjustable volume and choice of 8 sounds)
- 10 Mounting component for support arm system CP 40, steel – angle piece 90° 6501.140
- 11 Mounting component for support arm system CP 60 – Angle adaptor 90° for support arm combination CP 60 to CP 40 6206.640 – Angle coupling 90° 6206.380 – Angle piece 90° 6206.600 – Intermediate hinge 6206.620 – Wall-mounted hinge 6206.740 – Top-mounted joint 6206.700

- 12 Mounting component for support arm system CP 120 – Angle coupling 90° 6212.380 – Angle piece 90° 6212.600 – Intermediate hinge 6212.620 – Wall-mounted hinge 6212.740 – Top-mounted joint 6212.700
- 12 Mounting component for support arm system CP 180 – Angle piece 90° 6218.600 – Top-mounted joint 6218.700

### Label panel



Model No.

2374.150

### Mounting component for conduit mounting



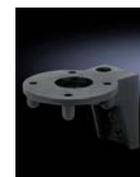
Base with integral conduit, Ø 25 mm, 110 mm long



Individual base



Individual conduit, 250 mm long



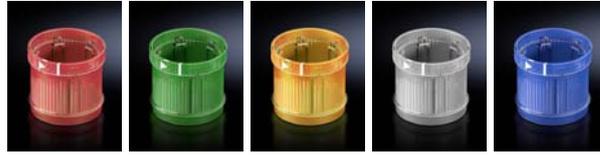
Angle bracket for conduit mounting

| Model No. |          |          |          |          |
|-----------|----------|----------|----------|----------|
| 2374.000  | 2374.010 | 2374.020 | 2374.030 | 2374.050 |

## Modular system



### Optical component for signal pillar, modular



Red      Green      Yellow      Clear      Blue

|   | Model No. |          |          |          |          |
|---|-----------|----------|----------|----------|----------|
| 1 | 2372.001  | 2372.011 | 2372.021 | 2372.031 | 2372.041 |
| 2 | 2370.151  | 2370.161 | 2370.171 | -        | -        |
| 3 | 2370.501  | 2370.511 | 2370.521 | 2370.531 | 2370.541 |
| 4 | 2370.551  | -        | 2370.571 | -        | -        |
| 5 | 2371.001  | -        | 2371.021 | -        | -        |

### Acoustic component



|   | Model No. |
|---|-----------|
| 6 | 2376.001  |
| 7 | 2376.011  |
| 8 | 2376.021  |
| 9 | 2376.031  |

### Connection component for signal pillar, modular



For conduit mounting



For wall/base mounting

|  | Model No. |          |
|--|-----------|----------|
|  | 2368.001  | 2368.002 |

### Mounting component for support arm systems



10

11

12

|  | Model No. |          |          |
|--|-----------|----------|----------|
|  | 2375.030  | 6206.900 | 6212.900 |

### Mounting component for wall/base mounting



Bracket for connection component



For side cable outlet

|  | Model No. |          |
|--|-----------|----------|
|  | 2374.040  | 2374.080 |

# Signal pillars



## Signal pillar, 3-way LED

### Benefits:

- Complete plug-and-pay solution
- Extremely long service life of the LEDs (max. 100,000 hours, therefore maintenance-free)
- Minimal assembly work and warehousing costs

### Technical specifications:

- 3-stage: red, yellow and green
- Operating voltage: 24 V AC/DC
- Electrical connection: Screwless spring terminals
- Lamp: LED
- Transmission angle: 3 x 120°
- Operating temperature: -20 °C...+50 °C
- Flashing function: Controllable via PLC
- Cable entry: Metric screwed cable gland M12 x 1.5 for cable diameter 3.0 – 6.5 mm

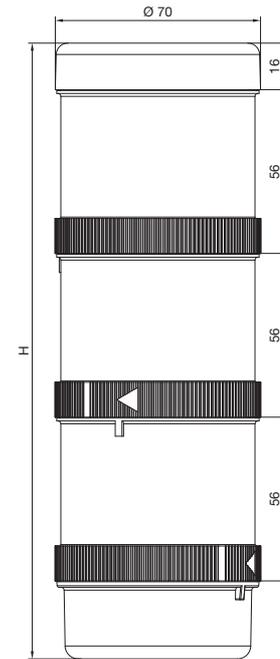
### Protection category IP to IEC 60 529:

- IP 65

| Design               | Packs of | H mm  | Model No.       |
|----------------------|----------|-------|-----------------|
| for conduit mounting | 1 pc(s). | 210.5 | <b>2372.101</b> |
| for base mounting    | 1 pc(s). | 212.0 | <b>2372.102</b> |

### + Accessories:

- Mounting component, see page 1125/1126
- Label panel, see page 1127



## Signal pillar, modular

### Benefits:

- Simple assembly and contact using bayonet fastener
- Configuration of up to five components with the same voltage
- Flashing and stroboscopic light component including lamp, for direct use
- Components available in a range of colours and voltages

For modular configuration of

- Connection components
- Optical components
- Acoustic components
- Label panel



## Connection component

### for signal pillar, modular

- Optionally for conduit or wall/base mounting
- Screwless spring terminals in the connection component
- With cover for optical components
- Contact hazard protection to VDE
- 12 – 230 V AC/DC

### Material:

- Polyamide enclosure

### Colour:

- Black

### Protection category IP to IEC 60 529:

- IP 65

| Connection component   | Model No.       |
|------------------------|-----------------|
| for conduit mounting   | <b>2368.001</b> |
| for wall/base mounting | <b>2368.002</b> |

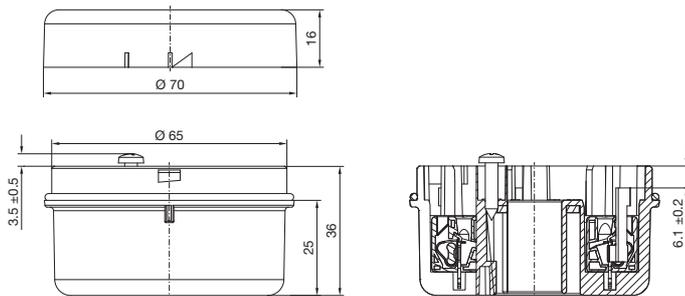


### Accessories:

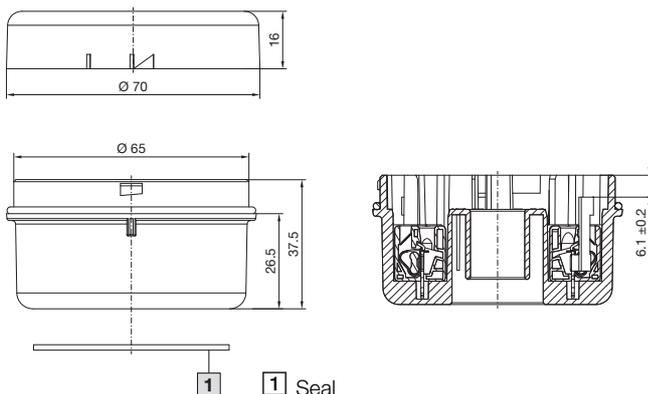
- Mounting component, see page 1125/1126



Connection component for conduit mounting 2368.001



Connection component for wall/base mounting



# Signal pillars



## Optical component

### for signal pillar, modular

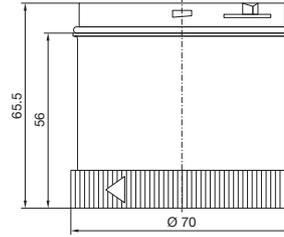
- With 360° signal transmission thanks to optimised prism system
- No. of potential stages = 5 components, with identical voltage

### Material:

- Enclosure: Polyamide
- Spherical cap: Transparent polycarbonate

### Protection category IP to IEC 60 529:

- IP 65, provided a cover or acoustic component is fitted at the top



### LED steady light component 24 V AC/DC, < 35 mA

| Model No. |          |          |          |          |
|-----------|----------|----------|----------|----------|
| Red       | Green    | Yellow   | Clear    | Blue     |
| 2372.001  | 2372.011 | 2372.021 | 2372.031 | 2372.041 |

### LED steady light component 230 V, < 35 mA

| Model No. |          |          |       |      |
|-----------|----------|----------|-------|------|
| Red       | Green    | Yellow   | Clear | Blue |
| 2370.151  | 2370.161 | 2370.171 | -     | -    |

### LED flashing light component 24 V AC/DC, < 30 mA

| Model No. |          |          |          |          |
|-----------|----------|----------|----------|----------|
| Red       | Green    | Yellow   | Clear    | Blue     |
| 2370.501  | 2370.511 | 2370.521 | 2370.531 | 2370.541 |

### LED flashing light component 230 V, < 35 mA

| Model No. |       |          |       |      |
|-----------|-------|----------|-------|------|
| Red       | Green | Yellow   | Clear | Blue |
| 2370.551  | -     | 2370.571 | -     | -    |

### Stroboscopic light component 24 V (DC), < 35 mA

| Model No. |       |          |       |      |
|-----------|-------|----------|-------|------|
| Red       | Green | Yellow   | Clear | Blue |
| 2371.001  | -     | 2371.021 | -     | -    |

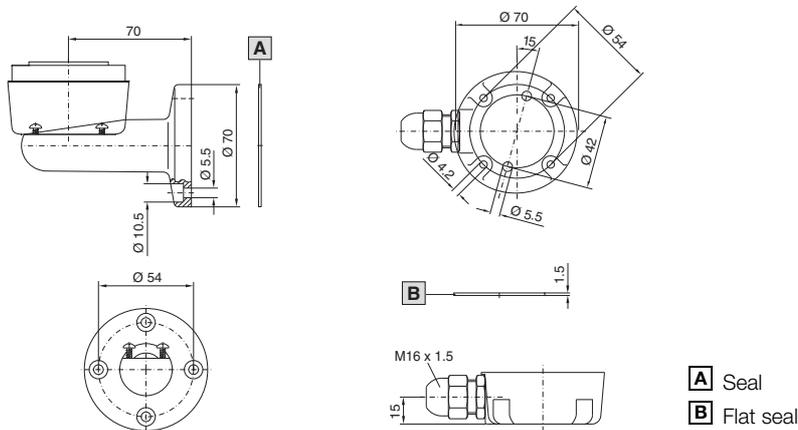
## Mounting component for wall/base mounting

| Fig. | Mounting component               | Colour | Model No. |
|------|----------------------------------|--------|-----------|
| 1    | Bracket for connection component | Black  | 2374.040  |
| 2    | For side cable outlet            | Black  | 2374.080  |

### ! Also required:

- With the modular system for wall/base mounting:  
Connection component 2368.002,  
see page 1123

Bracket for connection component      For side cable outlet



## Mounting component for support arm systems

For external mounting of a signal pillar on the plastic cover of support arm components.

| Fig. | Mounting component                                                                                                                                                                                                                                                       | Colour                      | Model No. |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------|
| 3    | For support arm system CP 40, steel<br>– Angle piece 90° 6501.140                                                                                                                                                                                                        | RAL 7024<br>(graphite grey) | 2375.030  |
| 4    | For support arm system CP 60<br>– Angle adaptor 90° for support arm combination CP 60 to CP 40 6206.640<br>– Angle coupling 90° 6206.380<br>– Angle piece 90° 6206.600<br>– Intermediate hinge 6206.620<br>– Wall mounted hinge 6206.740<br>– Top mounted joint 6206.700 | RAL 7024<br>(graphite grey) | 6206.900  |
| 5    | For support arm system CP 120<br>– Angle coupling 90° 6212.380<br>– Angle piece 90° 6212.600<br>– Intermediate hinge 6212.620<br>– Wall-mounted hinge 6212.740<br>– Top-mounted joint 6212.700                                                                           | RAL 7024<br>(graphite grey) | 6212.900  |
|      | For support arm system CP 180<br>– Angle piece 90° 6218.700,<br>– Top-mounted joint 6218.700                                                                                                                                                                             | RAL 7024<br>(graphite grey) | 6212.900  |

### ! Also required:

- With the modular system for conduit mounting:  
Connection component 2368.001,  
see page 1123



# Signal pillars



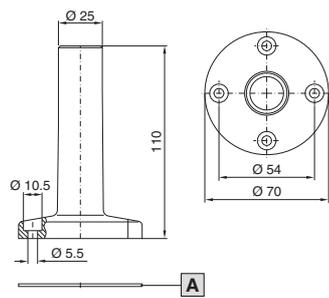
## Mounting component for conduit mounting

| Fig. | Mounting component                               | Colour    | Model No. |
|------|--------------------------------------------------|-----------|-----------|
| 6    | Base with integral conduit, Ø 25 mm, 110 mm long | Black     | 2374.000  |
| 7    | Individual base                                  | Black     | 2374.010  |
| 8    | Individual conduit, 250 mm long                  | Aluminium | 2374.020  |
|      | Individual conduit, 400 mm long                  | Aluminium | 2374.030  |
| 9    | Angle bracket for conduit mounting               | Black     | 2374.050  |

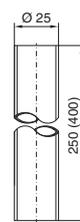
### ! Also required:

- With the modular system for conduit mounting:  
Connection component 2368.001,  
see page 1123

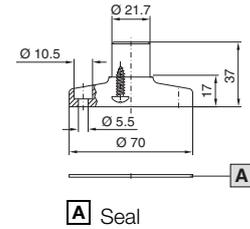
Base with integral conduit



Individual conduit

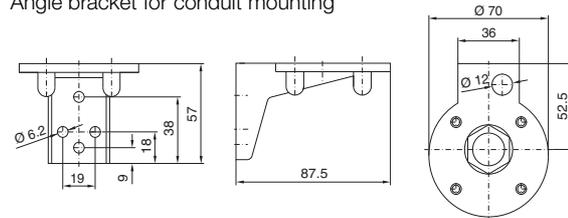


Individual base, plastic



A Seal

Angle bracket for conduit mounting



# Signal pillars

## Acoustic component

### for signal pillar, modular

To indicate warnings or malfunctions.

#### Material:

– Enclosure: Polyamide

#### Colour:

– Black

#### Protection category IP to IEC 60 529:

– IP 65

#### Note:

– For mounting only on the upper end of the optical components or directly onto the connection component

### 24 V AC/DC

| Acoustic components  | Packs of | Model No.       |
|----------------------|----------|-----------------|
| 105 dB <sup>1)</sup> | 1 pc(s). | <b>2376.001</b> |
| 102 dB <sup>2)</sup> | 1 pc(s). | <b>2376.011</b> |

<sup>1)</sup> Continuous tone or pulsating

<sup>2)</sup> Adjustable volume and choice of 8 sounds

### 230 V

| Acoustic components  | Packs of | Model No.       |
|----------------------|----------|-----------------|
| 105 dB <sup>1)</sup> | 1 pc(s). | <b>2376.021</b> |
| 102 dB <sup>2)</sup> | 1 pc(s). | <b>2376.031</b> |

<sup>1)</sup> Continuous tone or pulsating

<sup>2)</sup> Adjustable volume and choice of 8 sounds



## Label panel

### for signal pillar, 3-way LED and signal pillar, modular

For adding texts on up to 5 optical components, with break point for any fields that are not required (50 x 150 mm), including clamping section for base / conduit with Ø 25 mm.

#### Material:

– Acrylic, transparent

| Label panel              | Model No.       |
|--------------------------|-----------------|
| for 5 optical components | <b>2374.150</b> |

