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The Rittal Base/Plinth System Flex-Block



Saves time

- Fast assembly as base/plinth components clip together easily
- Easy to bay thanks to tool-free baying clip
- Easy to transport enclosure in empty and unconfigured state by removing base/plinth trim panel



Easy to install

- Tool-free assembly of all base/plinth components
- Tool-free assembly of accessories, e.g., baying and leveling feet
- Symmetrical enclosure widths and depths
- A combination of 100 and 200 mm high trim panels can be used with 200 mm high Flex-Block



Large mounting surface

- Space-saving cable routing in base/plinth, allowing more space for enclosure fittings
- Expansion using punched rail – can be clipped in either from the inside or from the outside
- Flexible configuration: punched rail with 25 mm hole pattern



Base/Plinth

Flex-Block Base/Plinth System

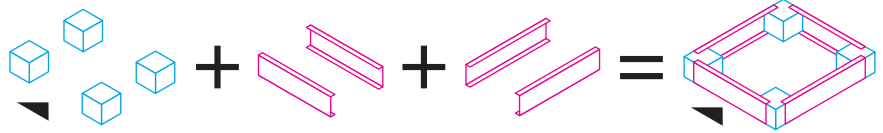


The Rittal Base/Plinth System

Flex-Block

Flexible base/plinth system for practically every application. Thanks to separate package units of corner pieces and trim panels, the system can be arranged individually for every scenario.

The weight of the enclosure is supported by the corner pieces so that the trim panels can be easily clipped in or out at any time. The base/plinth trim panels are symmetrical and can be freely interchanged with one another in both width and depth. This results in never-before seen levels of flexibility and promises major savings when enlarging bases/plinths.



One model number for the **Flex-Block corner pieces** at the front and back

One model number for the **Flex-Block trim panels** at the front and back

One model number for the **Flex-Block trim panels** at the side

A complete **Flex-Block base/plinth**

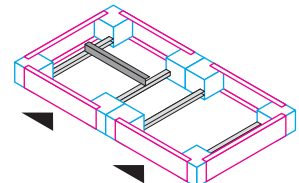
Base/plinth, height 4" (100 mm)							
Base/plinth, height 8" (200 mm) with 8" (200 mm) panels							
Base/plinth, height 8" (200 mm) Combination 4" (100 mm) and 8" (200 mm) trim panels							

Function and Cost Benefits

Order scope	Beneficial features	High potential for savings with Flex-Block 4" (100 mm) in comparison to complete Flex-Block base/plinth
3 packs of Flex-Block corner pieces	The enclosures are sturdily supported on the corner pieces. Can be transported by high-lift truck or lift truck when used with individual enclosures.	12 trim panels
3 packs of Flex-Block corner pieces 4 packs of Flex-Block corner pieces	Completely closed row of bases/plinths, no panels between the enclosure fields. This results in more space for installation and cable entry.	4 trim panels
3 packs of Flex-Block corner pieces 2 packs of Flex-Block trim panels	Trim panels are only needed in visible areas, no panels between the enclosure fields. This results in more space for installation and cable entry.	8 trim panels

Other options:

- Individual cable clamping solutions can be fitted in any enclosure field using system accessories
- Depending on the requirement, either 4" (100 mm) high trim panels or 8" (200 mm) high trim panels can be used with 8" (200 mm) Flex-Block corner pieces



Flex-Block Base/Plinth System

Flex-Block Corner Pieces

for TS, TS IT, SE, PC

High-strength plastic corner pieces for individual tool-free assembly with Flex-Block trim panels and accessories.

Material:

- Corner pieces: Fiberglass-reinforced plastic
- Cover caps: ABS

Color:

- RAL 9005

Supply includes:

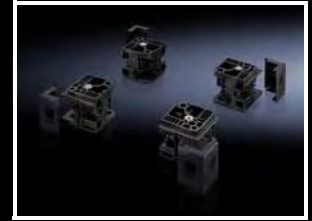
- 1 set =
4 corner pieces
4 cover caps
Assembly components for mounting on the enclosure

Height of corner pieces inches (mm)	Model No.
4 (100)	8100.000
8 (200)	8200.000



Accessories:

- Flex-Block trim panels, see page 425
- Punched rail 23 x 23 mm, see page 527
- Baying clip 8000.100, see page 425
- Adapter sleeve 8000.500, see page 437
- Base mounting plate 2817.000, see page 430



Flex-Block Trim Panels

for Flex-Block corner pieces

For tool-free assembly. With symmetrical enclosure dimensions, trim panels have identical width and depth.

Material:

- Carbon steel

Color:

- RAL 9005

Supply includes:

- 1 set = 2 trim panels

4" (100 mm) high, solid

For enclosure width and depth in inches (mm)	Model No.
12 (300)	8100.300
16 (400)	8100.400
20 (500)	8100.500
24 (600)	8100.600
32 (800)	8100.800
39 (1000)	8100.010
47 (1200)	8100.120
63 (1600)	8100.160
71 (1800)	8100.180

8" (200 mm) high, solid

For enclosure width and depth in inches (mm)	Model No.
12 (300)	8200.300
16 (400)	8200.400
20 (500)	8200.500
24 (600)	8200.600
32 (800)	8200.800
39 (1000)	8200.010
47 (1200)	8200.120

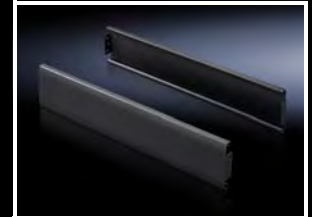
4" (100 mm) high, vented

For enclosure width and depth in inches (mm)	Model No.
24 (600)	8100.602
32 (800)	8100.802



Accessories:

- Filter mats for vented Flex-Block trim panels 7583.500, see page 431



Baying Clip

for baying the Flex-Block corner pieces

Tool-free baying of Flex-Block base/plinths using a simple clip system.

Material:

- Fiberglass-reinforced plastic

Color:

- RAL 9005

Packs of	Model No.
12 pc(s).	8000.100



Base/Plinth

TS Base/Plinth

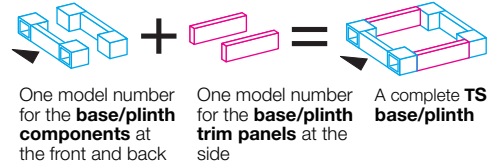
The Variety of a Modular Base/Plinth System

Regardless of the enclosure depth:

The front and rear base/plinth components, prefitted with corner pieces, are always the same for the chosen width.

You only have to choose the side trim panels to match the enclosure width and the desired base/plinth configuration. Thanks to the modular concept, considerable benefits in cost and function can be achieved.

Mounting onto the enclosure can be easily effected from the outside. The space inside the base/plinth offers a range of options for the cable management mounting levels.



Base/ plinth height inches (mm)	Basic form	Cable routing options				
4 (100)					Stabilization of bayed bases/ plinths	
8 (200)						

Function and Cost Benefits

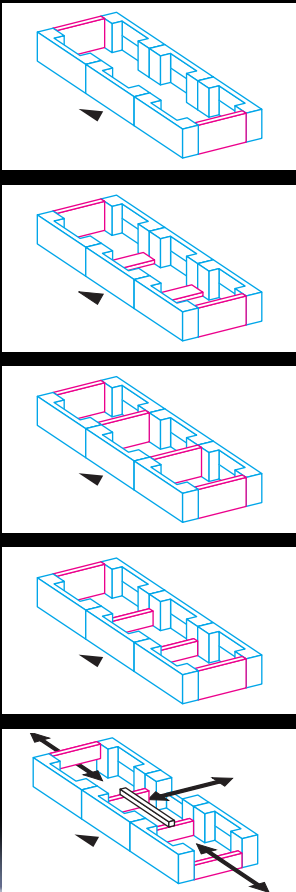
Fewer parts, more possibilities, lower costs for procurement, warehousing and assembly – the formula behind the modular base/plinth system.

The following table shows just five of the multitude of possible solutions on three bayed bases/plinths (200 mm high) and the potential savings on trim panels in comparison to a 200 mm base/plinth system each with two 100 mm high side panels.

Order scope	Beneficial features	Potential saving instead of 12x 4" (100 mm) trim panels
3 packs of base/plinth components 1 pack of base/plinth trim panels, 8" (200 mm) high	Continuous cable chamber	2x 8" (200 mm) trim panels
3 packs of base/plinth components 1 pack of base/plinth trim panels, 8" (200 mm) high 1 pack of base/plinth trim panels, 4" (100 mm) high 1 pack of base/plinth baying brackets 8601.100 (packs of 20 pieces) 4 pcs are needed for this solution	Additional stabilization for transport through base/plinth trim panels turned through 90°	2x 8" (200 mm) trim panels 2x 4" (100 mm) trim panels
3 packs of base/plinth components 2 packs of base/plinth trim panels, 8" (200 mm) high	Base/plinth partitioned from each other	4x 8" (200 mm) trim panels
3 packs of base/plinth components 1 pack of base/plinth trim panels, 8" (200 mm) high 1 pack of base/plinth trim panels, 4" (100 mm) high	Additional base/plinth connection	2x 8" (200 mm) trim panels 2x 4" (100 mm) trim panels

Other options:

- Cable entry at side by fitting a 4" (100 mm) base/plinth trim panel (top or bottom)
- Cable entry from rear by removing one or more trim panels of the base/plinth components
- Cable clamp rail fitted on the 4" (100 mm) high trim panels



Base/Plinth Components, Front and Rear

Carbon steel for TS, TS IT, SE, CM, TP, PC

Base/plinth component consisting of one trim panel and two prefitted corner pieces. On 200 mm high base/plinth components, one trim panel is in two parts to allow for cable entry.

Material:

- Base/plinth components: Carbon steel
- Cover caps: Plastic

Surface finish:

- Spray-finished

Color:

- Cover caps: RAL 9005/7035

Supply includes:

- 1 set =
2 base/plinth components, 4 cover caps,
4 screws and captive nuts M12 for mounting
on the enclosure



Also required:

- Depending on application/load, base/plinth trim panels, side, see page 428

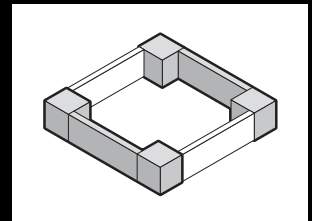
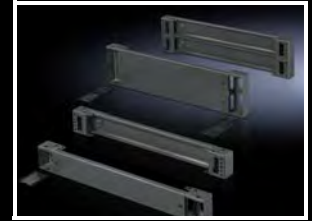


Accessories:

- Base mounting plate 2817.000, see page 430

Technical details:

Available on the Internet



4" (100 mm) high, color: RAL 7022

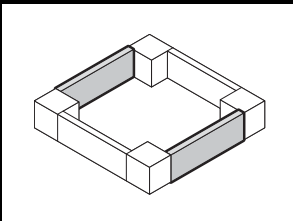
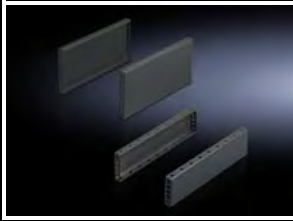
For enclosure width inches (mm)	Version	Model No.
12 (300)	Solid	8601.915
16 (400)	Solid	8601.400
20 (500)	Solid	8601.500
24 (600)	Solid	8601.600
32 (800)	Solid	8601.800
33 (850)	Solid	8601.850
39 (1000)	Solid	8601.000
43 (1100)	Solid	8601.300
47 (1200)	Solid	8601.200
63 (1600)	Solid	8601.920
71 (1800)	Solid	8601.980

8" (200 mm) high, color: RAL 7022

For enclosure width inches (mm)	Version	Model No.
12 (300)	Solid	8602.915
16 (400)	Solid	8602.400
20 (500)	Solid	8602.500
24 (600)	Solid	8602.600
32 (800)	Solid	8602.800
33 (850)	Solid	8602.850
39 (1000)	Solid	8602.000
43 (1100)	Solid	8602.100
47 (1200)	Solid	8602.200
63 (1600)	Solid	8602.920
71 (1800)	Solid	8602.980

Base/Plinth

TS Base/Plinth



Base/Plinth Trim Panels, Side

Carbon steel

for base/plinth components, front and rear

To mount between the base/plinth components. For height 200 mm, two 100 mm base/plinth trim panels can be used. Base/plinth panels (100 mm) can be installed turned through 90° to provide stabilization for bayed base/plinth components.

Material:

- Carbon steel

Surface finish:

- Spray-finished

Supply includes:

- 1 set =
2 base/plinth trim panels including parts for attaching to the base/plinth components



Also required:

- Base/plinth baying brackets 8601.100, see page 428, when fitting base/plinth trim panels turned through 90°



Accessories:

- Fastening bolts for base/plinth, see page 430

Technical details:

Available on the Internet

4" (100 mm) high, color: RAL 7022

For enclosure depth inches (mm)	Model No.
12 (300)	8601.030
16 (400)	8601.040
20 (500)	8601.050
24 (600)	8601.060
32 (800)	8601.080

8" (200 mm) high, color: RAL 7022

For enclosure depth inches (mm)	Model No.
12 (300)	8602.030
16 (400)	8602.040
20 (500)	8602.050
24 (600)	8602.060
32 (800)	8602.080

Base/Plinth Baying Brackets

for TS base/plinth

Essential where trim panels are mounted turned through 90° for additional stabilization when bayed enclosures are moved.

Additional brackets required for each panel: 2 pcs.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Screws M8 x 16 mm



Packs of	Model No.
20 pc(s).	8601.100

Cable Chamber

for TS, SE

With unique hole profile for individual system accessories.

Height: 200 mm

Material:

– Carbon steel

Color:

– RAL 7035

Supply includes:

- Carbon steel trim panels front and rear
- Assembly components for mounting on the enclosure

For enclosures		Model No.
Width inches (mm)	Depth inches (mm)	
16 (400)	20 (500)	8600.455
16 (400)	24 (600)	8600.465
24 (600)	20 (500)	8600.655
24 (600)	24 (600)	8600.665
32 (800)	20 (500)	8600.855
32 (800)	24 (600)	8600.865
47 (1200)	20 (500)	8600.255
47 (1200)	24 (600)	8600.265



Accessories:

- Side panels for cable chamber, see page 429

Technical details:

Available on the Internet



Sidewalls

for cable chamber

Height: 200 mm

Material:

– Carbon steel

Color:

– RAL 7035

Supply includes:

- Assembly components

For enclosure depth inches (mm)	Packs of	Model No.
20 (500)	2 pc(s).	8600.510
24 (600)	2 pc(s).	8600.520



Transport Castors

for TS base/plinth

Locate onto the base/plinth corner piece, height 100 or 200 mm.

Load capacity:

- Max. permitted load per twin castor:
Static 100 kg

Supply includes:

- 1 set =
4 twin castors, 2 x with, 2 x without locks

Color:

– RAL 7022

Floor clearance inches (mm)	Model No.
4 (100)	8800.390



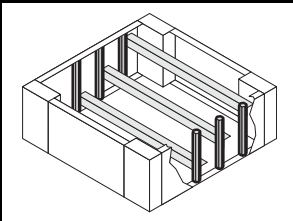
Also required:

- Base/plinth trim panels, side, see page 428



Base/Plinth

TS Base/Plinth



Base Mounting Plate

for

- TS Base/Plinth
- Flex-Block Base/Plinth System
- Base/Plinth, Complete

To fasten the base/plinth to the floor without moving the enclosure or bayed enclosure suite. For assembly screws up to 12 mm Ø.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

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

Fastening Bolts

for

- TS Base/Plinth
- Base/Plinth, Complete
- Base/Plinth, Stationary

Mounted on base/plinth trim panels, side. The fastening bolt is clamped into place to allow the installation of cable clamp rails. Tighten using hex wrench, width across flats 19 mm (0.74").

Material:

- Hexagon steel section

Surface finish:

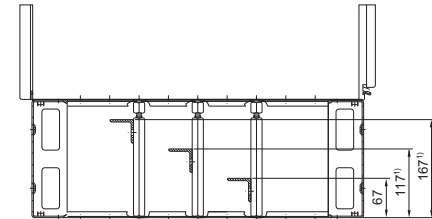
- Zinc-plated

For base/plinth trim panel Height inches (mm)	Packs of	Model No.
4 (100)	10 pc(s).	2819.000
8 (200)	10 pc(s).	2819.200



Accessories:

- Cable clamping rail, see page 574



¹⁾ Only with height 200 mm (8")

Leveling Component

for TS base/plinth

For retrospective leveling on uneven floors at the installation site up to a maximum of 15 mm. Installed through the corner piece of the base/plinth component. Adjust using hex wrench, width across flats 19 mm (0.74").

Advantages:

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

Load capacity:

- Max. permitted static load:
2500 N per leveling component (check the load capacity of the floor)

Supply includes:

- Assembly components

For base/plinth height inches (mm)	Packs of	Model No.
4 (100)	4 pc(s).	2891.000
8 (200)	4 pc(s).	2892.000

Cover Cap

for TS base/plinth components

As a replacement.

Material:

- Plastic ABS

Color:

- RAL 9005

For base/plinth height inches (mm)	Packs of	Model No.
4 (100)	4 pc(s).	8601.130
8 (200)	4 pc(s).	8601.140



Base/Plinth, Stationary

for PC

Design matches the housing, height 100 mm, with front projection.

Material:

- Carbon steel, 2.0 mm

Color:

- 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 inches (mm)	Model No.
24 (600)	8800.920



Accessories:

- Twin castors 7495.000, see page 436
- Leveling feet 4612.000, see page 435
- Fastening bolts for cable clamping rails 2819.000, see page 430
- Support bracket 4183.000, see page 535

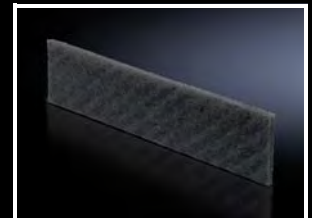


Filter Mat

for Flex-Block, vented version

To cover the trim panel in the Flex-Block. The filter mat is simply pushed into the trim panel from the rear. Can be shortened to required length.

For enclosure width inches (mm)	Packs of	Model No.
24/32 (600/800)	4 pc(s).	7583.500



Base/Plinth

TS Base/Plinth



Base/Plinth Components, Front and Rear

Stainless steel for TS, SE

Material:

- Stainless steel 1.4301 (AISI 304)

Surface finish:

- Brushed, grain 400

Supply includes:

- Mounting accessories for mounting on the enclosure

100 mm high:

- 2 trim panels front/rear

200 mm high:

- 2 corner pieces with removable trim panel
- 1 trim panel front/rear



Base/Plinth Trim Panels, Side

Stainless steel

for base/plinth components, front and rear

To mount between the base/plinth components. For height 200 mm, two 100 mm base/plinth trim panels can be used. Base/plinth panels (100 mm high) can be installed turned through 90° to provide stabilization for bayed base/plinth components.

Material:

- Stainless steel 1.4301 (AISI 304)

Surface finish:

- Brushed, grain 400

Supply includes:

- 2 base/plinth trim panels including parts for attaching to the base/plinth components



Base/Plinth Trim, Modular

for

■ TS Base/Plinth, Stainless Steel

■ Base/Plinth, Complete, Stainless Steel

For secure cable routing in the base/plinth between the floor and the enclosure.

Width: 175 mm

Material:

- Stainless steel 1.4301 (AISI 304)

Supply includes:

- 4 base/plinth trim panels

Note:

- One base/plinth trim is needed per 200 mm base/plinth width

For enclosure width inches (mm)	Height inches (mm)	Model No.
24 (600)	4 (100)	8701.600
32 (800)	4 (100)	8701.800
39 (1000)	4 (100)	8701.000
47 (1200)	4 (100)	8701.200
24 (600)	8 (200)	8702.600
32 (800)	8 (200)	8702.800
39 (1000)	8 (200)	8702.000
47 (1200)	8 (200)	8702.200



Accessories:

- Base/plinth trim, modular (perforated plate), see page 432

For enclosure depth inches (mm)	Height inches (mm)	Model No.
16 (400)	4 (100)	8701.040
20 (500)	4 (100)	8701.050
24 (600)	4 (100)	8701.060
32 (800)	4 (100)	8701.080
16 (400)	8 (200)	8702.040
20 (500)	8 (200)	8702.050
24 (600)	8 (200)	8702.060



Also required:

- Base/plinth baying brackets 8601.100, see page 428, when fitting base/plinth trim panels turned through 90°



Accessories:

- Fastening bolts for base/plinth, see page 430

Technical details:

Available on the Internet

For enclosure depth inches (mm)	Packs of	Model No.
16 (400)	4 pc(s).	2907.000
20 (500)	4 pc(s).	2908.000
24 (600)	4 pc(s).	2913.000



Accessories:

- Cable tie 2597.000, see page 576

Base/Plinth, Complete**Carbon steel
for AE**

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

Material:

- Carbon steel

Surface finish:

- Spray-finished

Color:

- RAL 7022

Supply includes:

- Mounting accessories for mounting on the enclosure

100 mm high:

- 4 corner pieces
- 2 trim panels front/rear
- 2 trim panels side

200 mm high:

- 4 corner pieces
- 1 trim panel front/rear x 200 mm
- 2 trim panel front/rear x 100 mm
- 4 trim panels side

Base/plinth for AE, 4" (100 mm) high

For enclosures		Base/plinth depth inches (mm)	Model No.
Width inches (mm)	Depth inches (mm)		
24 (600)	12 (300)	11 (279)	2816.200
32 (800)	12 (300)	11 (279)	2818.200
39 (1000)	12 (300)	11 (279)	2801.200

Base/plinth for AE, 8" (200 mm) high

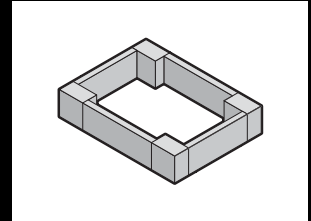
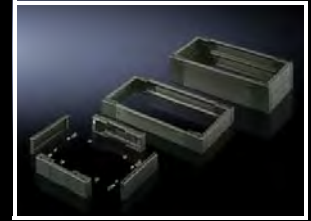
For enclosures		Base/plinth depth inches (mm)	Model No.
Width inches (mm)	Depth inches (mm)		
24 (600)	12 (300)	11 (279)	2826.200
32 (800)	12 (300)	11 (279)	2828.200
39 (1000)	12 (300)	11 (279)	2802.200

**Accessories:**

- Fastening bolts, see page 430
- Base mounting plate, see page 430

Technical details:

Available on the Internet

**Base/Plinth, Complete****Stainless steel
for one-piece consoles, stainless steel**

Height: 100 mm

Where necessary, two base/plinths can be installed one above the other.

Material:

- Stainless steel 1.4301 (AISI 304)

Surface finish:

- Brushed

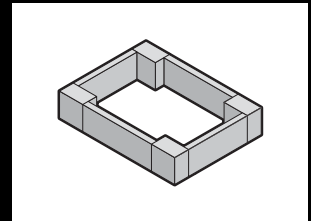
Supply includes:

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

For enclosures/consoles		Model No.
Width inches (mm)	Depth inches (mm)	
24 (600)	16 (400)	2865.000
32 (800)	16 (400)	2869.000
39 (1000)	16 (400)	2867.000
47 (1200)	16 (400)	2870.000

**Accessories:**

- Leveling feet, see page 434
- Base/plinth trim, modular (perforated plate), see page 432



Base/Plinth

Base/Plinth



Leveling Feet

Mounted directly underneath the TS base/plinth and complete base/plinth. For unhindered access e.g. when cleaning the floor, and to even out for floor irregularities.

Load capacity:

- Max. permitted static load: 400 kg per leveling foot

Adjustment range:

- M12: 55 – 125 mm
- M16: 45 – 120 mm

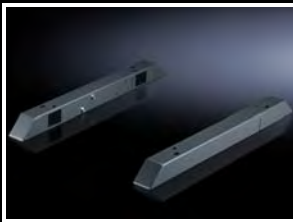
Material:

- Stainless steel 1.4301 (AISI 304)

Thread	Packs of	Model No.
M12	4 pc(s).	2889.000
M16	4 pc(s).	2890.000

**Possible alternative:**

- Hygienic Design leveling feet, see page 164



Cross Member

for TS, SE, CM, TP, PC adjustable

- To increase stability
- Height 70 mm
- Adjustable to the housing depth

To increase stability, the cross members project 138 mm beyond the enclosure base frame at the front and rear. The rear part can be extended and re-screwed for deeper enclosures. For screw-fastening to base and enclosure with side, front and rear mounting holes. The castors and leveling feet may be secured to the M12 welded nuts.

Material:

- Carbon steel

Surface finish:

- Spray-finished

Color:

- RAL 7015

For housing depth inches (mm)	Packs of	Model No.
16 (400)	1 set(s)	8601.450
20 (500)		
24 (600)	1 set(s)	8601.680
32 (800)		

**Accessories:**

- Twin castors 6148.000, 7495.000, see page 436
- Leveling feet 4612.000, 7493.100, see page 435

Technical details:

Available on the Internet



Stabilizer

for TS IT

The pull-out stabilizer is quickly and easily retrofitted to the lower frame of the server racks and only extended when necessary.

Load capacity:

- Up to max. 150 kg static load

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

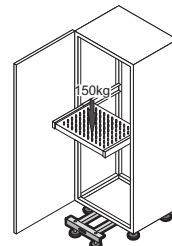
Note:

- The stabilizer cannot be used together with base plates, base frames or bases/plinths

Enclosure depth inches (mm)	Model No.
39 (1000)	7825.250

**Accessories:**

- Leveling feet, see page 435 and/or
- Transport kit, see page 436



Leveling feet**for TS, TS IT, SE, PC**

To compensate for floor irregularities. M12 fastening screw thread.

Optionally with hex socket for adjustment from the inside of the enclosure.

Load capacity:

- Max. permitted static load:
approx. 300 kg per leveling foot

Hex socket	Adjustment height inches (mm)	Packs of	Model No.
without	0.7 – 1.7 (18 – 43)	4 pc(s).	4612.000

**Also required:**

- When mounting on a TS base/plinth:
8800.220 base/plinth adapter, see page 437

Technical details:

Available on the Internet

**Leveling feet****for TS, TS IT**

To compensate for floor irregularities. Can be mounted on the enclosure and on the base/plinth.

Length of thread: 51 mm

Thread type: M12

Load capacity:

- Max. permitted static load:
363 kg per leveling foot

Packs of	Model No.
4 pc(s).	9961.504

**Leveling feet****85 – 115 mm high**

Mounted on TS, SE and PC enclosures, for easier floor cleaning and to compensate for floor irregularities of ± 15 mm.

Height: 100 mm

Load capacity:

- Max. permitted static load:
350 kg per leveling foot

Material:

- Stainless steel 1.4301 (AISI 304)

Supply includes:

- Mounting accessories for the enclosure

Packs of	Model No.
4 pc(s).	2859.000

**Possible alternative:**

- Hygienic Design leveling feet, see page 164



Base

Base



Twin castors

M12 x 20 assembly screw thread.

For:

- TS 8 baying system
- SE 8 free-standing enclosure system
- PC enclosure system
- Pedestal base plate
- 6106.200/6106.300 pedestal
- TopConsole pedestals
- Industrial workstations
- Data racks



Also required:

- When mounting on a TS base/plinth:
Base/plinth adapter for 8800.290 twin castors,
see page 437

	Max. permitted static load (per castor)	165 lb (75 kg)
	Floor clearance	3" (85 mm)
[1]	Lock	2 with, 2 without
	Packs of	1 set(s)
	Color	black with gray running surface
	Model No.	6148.000

	Max. permitted static load (per castor)	265 lb (120 kg)
	Floor clearance	5" (125 mm)
[2]	Lock	2 with, 2 without
	Packs of	1 set(s)
	Color	black
	Model No.	7495.000



Bolt down kit

To anchor the enclosure at any position of the base frame. With slot for a range of vertical positions.

Material:

- Carbon steel

Surface finish:

- Primed

Note:

- Additional holes are required in the base for mounting
- Cannot be used with leveling feet or transport castors

Packs of	Model No.
4 pc(s).	9970.989



Transport kit

for TS IT

Floor clearance: approx. 40 mm

Load capacity:

- Max. permitted static load:
750 kg per enclosure

Supply includes:

- 1 set = 4 castors (2 steerable)
Assembly components

Packs of	Model No.
1 set(s)	7825.900

Note:

- Only for enclosures without base plates and base tray/base mount

Technical details:

Available on the Internet



Transport kit

The transport kit allows for easy transportation of the enclosure over even surfaces. Easy to mount.

Load capacity:

- Permissible dynamic load of 1020 kg per enclosure

Supply includes:

- 1 set = 4 castors (2 steerable)
Assembly components

Packs of	Model No.
1 set(s)	9968.751

Adapter sleeve**for Flex-Block**

To stack base/plinth corner pieces.

Material:

- Steel

Surface finish:

- Zinc-plated

Supply includes:

- 12 adapter sleeves
- 8 M12 screws
- 8 washers

Packs of	Model No.
12 pc(s).	8000.500

**Base/plinth adapter****for leveling feet**

Connection component for fastening M12 leveling feet to the TS base/plinth.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Packs of	Model No.
4 pc(s).	8800.220

**Accessories:**

- Leveling feet 4612.000, 7493.100, see page 435

**Base/plinth adapter****for twin castors**

Connection component for mounting twin castors on the TS base/plinth.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Packs of	Model No.
4 pc(s).	8800.290

**Also required:**

- Base/plinth trim panels, side, see page 428, wherever a twin castor is fitted



Base

Base



Width divider

Divides 1200 mm wide TS and SE enclosures into two halves.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- 1 set =
 - 1 bracket for right/left, 2 compensating plates for the top, mounting accessories.

Packs of	Model No.
1 set(s)	8800.200



Also required:

- TS punched rail 18 x 38 mm, see page 525
- PS punched section without mounting flange 23 x 73 mm, see page 527 depending on the installation configuration



1st installation configuration:

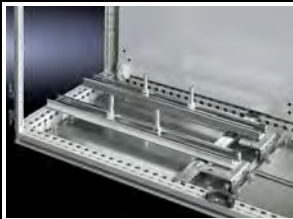
Two mounting plates side by side.

Two mounting plates (for 600 mm wide enclosures) in a 1200 mm wide enclosure allow independent positioning and easy handling.



Also required:

- 4 x TS punched rails 18 x 38 mm at the bottom, to suit the enclosure depth, see page 525
- 1 x PS punched section without mounting flange 23 x 73 mm at the top, to suit the enclosure depth, see page 527



2nd installation configuration:

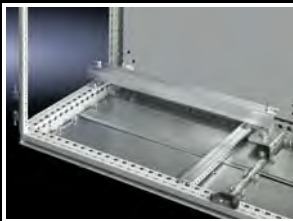
System support rails, fitted on the left.

While heavy installed equipment rests on the system support rails, the remaining floor space is free, e.g. for unhindered cable entry.



Also required:

- 2 x 4361.000 system support rails, see page 529
- 1 x TS punched rail 18 x 38 mm to suit the enclosure depth (included in the scope of supply of the standard enclosure)



3rd installation configuration:

Cable clamp rail, installed on the left.

With 1200 mm wide enclosures, the width divider allows cable entry and cable clamping to be arranged differently on the left and right of the enclosure.



Also required:

- 1 x 4191.000 cable clamp rail, see page 574
- 1 x TS punched rail 18 x 38 mm to suit the enclosure depth (included in the scope of supply of the standard enclosure)

Reinforcement bracket

for TS, SE

For use as an additional stabilizer to the clamping straps when populated enclosures are screw-fastened via the base tray to the base/plinth or pallet for transportation purposes.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
4 pc(s).	8800.830



Base mount

for TS IT

To accommodate base plate modules.

- Tool-free mounting or screw-fastening
- Easily retrofitted and can be combined with the stabilizer

Material:

- Carbon steel

Surface finish:

- Spray-finished

Color:

- RAL 7035

Supply includes:

- 2 mounting rails including assembly components

For enclosure depth inches (mm)	Packs of	Model No.
24 (600)	2 pc(s).	5501.300
32 (800)	2 pc(s).	5501.310
39 (1000)	2 pc(s).	5501.320
47 (1200)	2 pc(s).	5501.350



Clips

for base plates

As replacement and additional base plate fixture for TS, SE, CM, TP.

Material:

- Carbon steel

Surface finish:

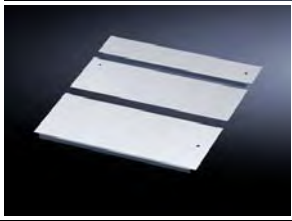
- Zinc-plated

Packs of	Model No.
50 pc(s).	8800.075



Base

Base



Base plate

for CM, TP

Equipotential bonding is provided via assembly components and grounding points.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:


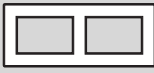
- Assembly components

Note:

- For greater stability and universal cable entry, the base opening is divided in the width for 1000, 1200 and 1600 mm wide enclosures, and is suitable for various configurations



For enclosure depth 16" (400 mm), complete module groups

	For enclosure/console width inches (mm)								
	One-piece base opening 				Two-piece base opening 				
For housing width	Packs of	Packs required	24 (600)	32 (800)	Packs of	Packs required	39 (1000)	47 (1200)	63 (1600)
Cable entry module groups			Model No.				Model No.		

Clamping profile, center

Base plate, Depth 2" (50 mm)	1 pc(s).	1	5001.210	5001.211	1 pc(s).	2	5001.212	5001.213	5001.233
Base plate, Depth 6" (150 mm)	1 pc(s).	1	5001.218	5001.219	1 pc(s).	2	5001.220	5001.221	5001.235
Profile for cable entry, center	1 set(s)	1	8802.060	8802.080	2 set(s)	1	8802.100	8802.120	8802.160

Clamping profile, rear

Base plate, Depth 4" (100 mm)	1 pc(s).	2	5001.214	5001.215	1 pc(s).	4	5001.216	5001.217	5001.234
Profile for cable entry, rear	1 set(s)	1	8802.065	8802.085	2 set(s)	1	8802.105	8802.125	8802.165

Clamping profile, center and rear

Base plate, Depth 2" (50 mm)	1 pc(s).	1	5001.210	5001.211	1 pc(s).	2	5001.212	5001.213	5001.233
Base plate, Depth 4" (100 mm)	1 pc(s).	1	5001.214	5001.215	1 pc(s).	2	5001.216	5001.217	5001.234
Profile for cable entry, center	1 set(s)	1	8802.060	8802.080	2 set(s)	1	8802.100	8802.120	8802.160
Profile for cable entry, rear	1 set(s)	1	8802.065	8802.085	2 set(s)	1	8802.105	8802.125	8802.165

Grommets, 1 x

Base plate, Depth 6" (150 mm)	1 pc(s).	1	5001.218	5001.219	1 pc(s).	2	5001.220	5001.221	5001.235
Cable entry plates for grommets	1 pc(s).	1	5001.226	5001.227	1 pc(s).	2	5001.228	5001.229	5001.237

Cable entry grommets and connector grommets, see page 562

Grommets, 2 x

Base plate, Depth 2" (50 mm)	1 pc(s).	1	5001.210	5001.211	1 pc(s).	2	5001.212	5001.213	5001.233
Cable entry plates for grommets	1 pc(s).	2	5001.226	5001.227	1 pc(s).	4	5001.228	5001.229	5001.237

Cable entry grommets and connector grommets, see page 562

EMC

EMC base plate	1 set(s)	1	8800.660	8800.680	1 set(s)	2	8800.600	8800.620	–
Base plate, Depth 4" (100 mm)	1 pc(s).	1	5001.214	5001.215	1 pc(s).	2	5001.216	5001.217	–

Cable entry grommets and connector grommets, see page 562

For cable glands

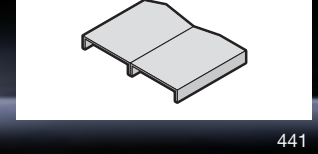
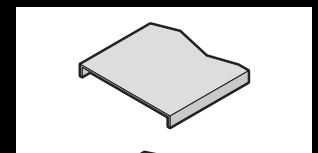
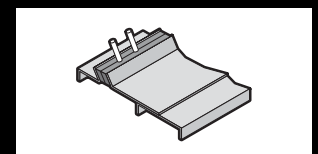
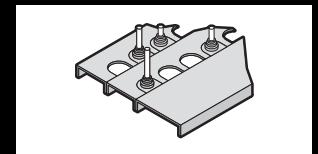
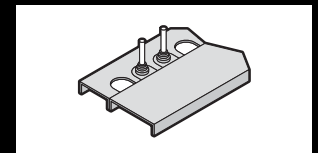
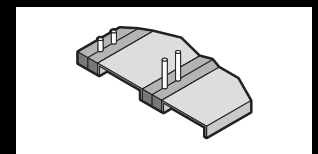
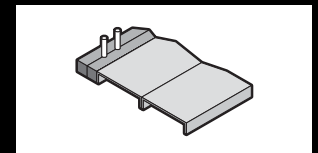
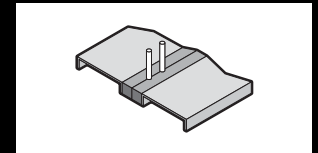
One-piece

Base plate, Depth 10" (250 mm)	1 pc(s).	1	5001.222	5001.223	1 pc(s).	2	5001.224	5001.225	5001.236
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Two-piece

Base plate, Depth 6" (150 mm)	1 pc(s).	1	5001.218	5001.219	1 pc(s).	2	5001.220	5001.221	5001.235
Base plate, Depth 4" (100 mm)	1 pc(s).	1	5001.214	5001.215	1 pc(s).	2	5001.216	5001.217	5001.234



Cable glands, see page 568



Base

Base

For enclosure depth 20" (500 mm), complete module groups

	For enclosure/console width inches (mm)								
	One-piece base opening				Two-piece base opening				
									
For housing width	Packs of	Packs required	24 (600)	32 (800)	Packs of	Packs required	39 (1000)	47 (1200)	63 (1600)
Cable entry module groups			Model No.				Model No.		

Clamping profile, center									
Base plate, Depth 2" (50 mm)	1 pc(s).	1	5001.210	5001.211	1 pc(s).	2	5001.212	5001.213	5001.233
Base plate, Depth 10" (250 mm)	1 pc(s).	1	5001.222	5001.223	1 pc(s).	2	5001.224	5001.225	5001.236
Profile for cable entry, center	1 set(s)	1	8802.060	8802.080	2 set(s)	1	8802.100	8802.120	8802.160

Clamping profile, rear									
Base plate, Depth 6" (150 mm)	1 pc(s).	2	5001.218	5001.219	1 pc(s).	4	5001.220	5001.221	5001.235
Profile for cable entry, rear	1 set(s)	1	8802.065	8802.085	2 set(s)	1	8802.105	8802.125	8802.165

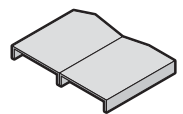
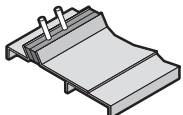
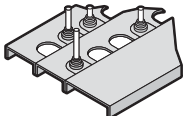
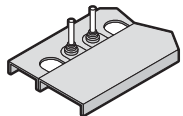
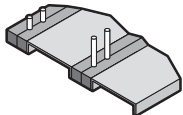
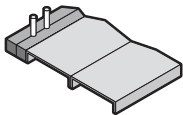
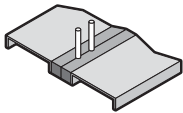
Clamping profile, center and rear									
Base plate, Depth 2" (50 mm)	1 pc(s).	1	5001.210	5001.211	1 pc(s).	2	5001.212	5001.213	5001.233
Base plate, Depth 4" (100 mm)	1 pc(s).	2	5001.214	5001.215	1 pc(s).	4	5001.216	5001.217	5001.234
Profile for cable entry, center	1 set(s)	1	8802.060	8802.080	2 set(s)	1	8802.100	8802.120	8802.160
Profile for cable entry, rear	1 set(s)	1	8802.065	8802.085	2 set(s)	1	8802.105	8802.125	8802.165

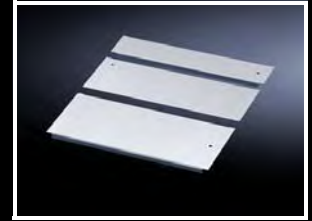
Grommets, 1 x									
Base plate, Depth 10" (250 mm)	1 pc(s).	1	5001.222	5001.223	1 pc(s).	2	5001.224	5001.225	5001.236
Cable entry plates for grommets	1 pc(s).	1	5001.226	5001.227	1 pc(s).	2	5001.228	5001.229	5001.237
Cable entry grommets and connector grommets, see page 562									

Grommets, 2 x									
Base plate, Depth 6" (150 mm)	1 pc(s).	1	5001.218	5001.219	1 pc(s).	2	5001.220	5001.221	5001.235
Cable entry plates for grommets	1 pc(s).	2	5001.226	5001.227	1 pc(s).	4	5001.228	5001.229	5001.237
Cable entry grommets and connector grommets, see page 562									

EMC									
EMC base plate	1 set(s)	1	8800.660	8800.680	1 set(s)	2	8800.600	8800.620	-
Base plate, Depth 4" (100 mm)	1 pc(s).	2	5001.214	5001.215	1 pc(s).	4	5001.216	5001.217	-
Cable entry grommets and connector grommets, see page 562									

For cable glands, two-piece									
Base plate, Depth 4" (100 mm)	1 pc(s).	1	5001.214	5001.215	1 pc(s).	2	5001.216	5001.217	5001.234
Base plate, Depth 10" (250 mm)	1 pc(s).	1	5001.222	5001.223	1 pc(s).	2	5001.224	5001.225	5001.236
Cable glands, see page 568									





Base plate

for TS IT

Equipotential bonding is provided via assembly components and grounding points.

■ Base plate kit

To conceal the entire base opening

■ Base plate modules

Select module to suit the application

Material:

– Carbon steel

Surface finish:

– Zinc-plated

Supply includes:

– Assembly components



Accessories:

– Clips for base plates, see page 439

For enclosure depth 24" (600 mm)

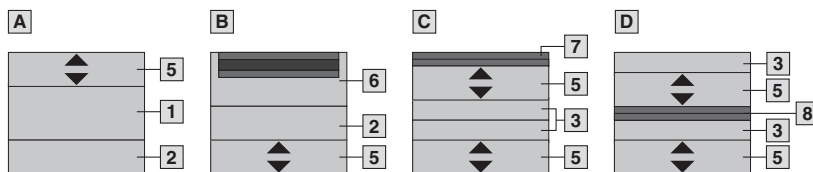
A Base plate kit	Packs of	Packs required	For enclosure width inches (mm)	
			24 (600)	32 (800)
			Model No.	
Base plate, solid, with sliding panel, multi-piece	1 set(s)	1	–	5502.510

Base plate modules	Packs of	Packs required	For enclosure width inches (mm)	
			24 (600)	32 (800)

B 1 module plate as required			Model No.	
Base plate, depth 6" (150 mm)	1 pc(s).	1	5001.218	5001.219
Sliding plate, depth 6" (150 mm)	1 pc(s).	1	5001.239	5001.240
Module plate, Depth 9.4" (237.5 mm)	Cable entry with brush strip	1 pc(s).	–	7825.381
	Vented		7825.360	7825.380
	Cable entry with brush strip, super-airtight		–	7825.387

C Cable entry rear or front			Model No.	
Base plate, depth 4" (100 mm)	1 pc(s).	2	5001.214	5001.215
Sliding plate, depth 6" (150 mm)	1 pc(s).	2	5001.239	5001.240
Self-adhesive foam cable clamp strip	118" (3 m)	1	2573.000	2573.000

D Cable entry center			Model No.	
Base plate, depth 4" (100 mm)	1 pc(s).	2	5001.214	5001.215
Sliding plate, depth 6" (150 mm)	1 pc(s).	2	5001.239	5001.240
Profile for cable entry, center	1 set(s)	1	8802.060	8802.080



- 1 Base plate, depth 10" (250 mm)
- 2 Base plate, depth 6" (150 mm)
- 3 Base plate, depth 4" (100 mm)
- 4 Base plate, depth 2" (50 mm)
- 5 Sliding plate, depth 6" (150 mm)
- 6 Module plate, depth 9.4" (237.5 mm)
- 7 Self-adhesive foam cable clamp strip
- 8 Profile for cable entry, center

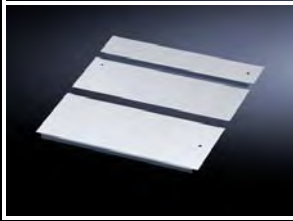


Also required:

– Base mount, see page 439

Base

Base



For enclosure depth 32" (800 mm)

A Base plate kit	Packs of	Packs required	For enclosure width inches (mm)	
			24 (600)	32 (800)
			Model No.	
Base plate, solid, with sliding panel, multi-piece	1 set(s)	1	–	5502.530

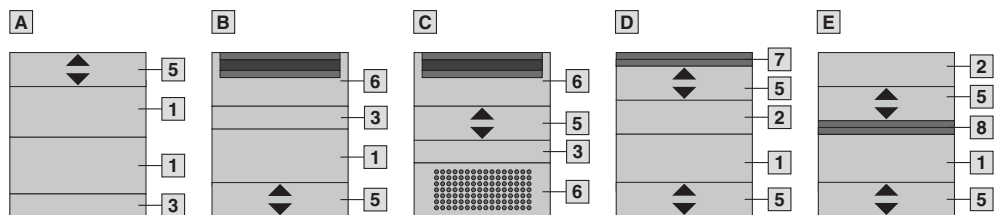
Base plate modules	Packs of	Packs required	For enclosure width inches (mm)	
			24 (600)	32 (800)

B 1 module plate as required			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	1	5001.222	5001.223
Base plate, depth 4" (100 mm)	1 pc(s).	1	5001.214	5001.215
Sliding plate, depth 6" (150 mm)	1 pc(s).	1	5001.239	5001.240
Module plate, Depth 9.4" (237.5 mm)	1 pc(s).	1	–	7825.381
			7825.360	7825.380
			–	7825.387

C 2 module plates as required			Model No.	
Base plate, depth 6" (150 mm)	1 pc(s).	1	5001.218	5001.219
Sliding plate, depth 6" (150 mm)	1 pc(s).	1	5001.239	5001.240
Module plate, Depth 9.4" (237.5 mm)	1 pc(s).	2	–	7825.381
			7825.360	7825.380
			–	7825.387

D Cable entry rear or front			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	1	5001.222	5001.223
Base plate, depth 6" (150 mm)	1 pc(s).	1	5001.218	5001.219
Sliding plate, depth 6" (150 mm)	1 pc(s).	2	5001.239	5001.240
Self-adhesive foam cable clamp strip	118" (3 m)	1	2573.000	2573.000

E Cable entry center			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	1	5001.222	5001.223
Base plate, depth 6" (150 mm)	1 pc(s).	1	5001.218	5001.219
Sliding plate, depth 6" (150 mm)	1 pc(s).	2	5001.239	5001.240
Profile for cable entry, center	1 set(s)	1	8802.060	8802.080

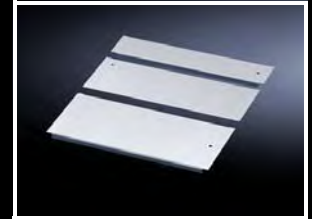


- 1 Base plate, depth 10" (250 mm)
- 2 Base plate, depth 6" (150 mm)
- 3 Base plate, depth 4" (100 mm)
- 4 Base plate, depth 2" (50 mm)
- 5 Sliding plate, depth 6" (150 mm)
- 6 Module plate, depth 9.4" (237.5 mm)
- 7 Self-adhesive foam cable clamp strip
- 8 Profile for cable entry, center



Also required:

- Base mount, see page 439



For enclosure depth 39" (1000 mm)

A Base plate kit	Packs of	Packs required	For enclosure width inches (mm)	
			24 (600)	32 (800)
			Model No.	
Base plate, solid, with sliding panel, multi-piece	1 set(s)	1	5502.540	5502.550

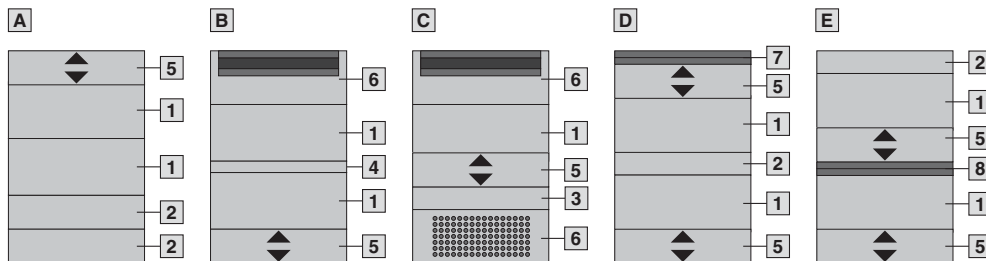
Base plate modules	Packs of	Packs required	For enclosure width inches (mm)	
			24 (600)	32 (800)

B 1 module plate as required			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	2	5001.222	5001.223
Base plate, depth 2" (50 mm)	1 pc(s).	1	5001.210	5001.211
Sliding plate, depth 6" (150 mm)	1 pc(s).	1	5001.239	5001.240
Module plate, Depth 9.4" (237.5 mm)	1 pc(s).	1	–	7825.381
			7825.360	7825.380
			–	7825.387

C 2 module plates as required			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	1	5001.222	5001.223
Base plate, depth 4" (100 mm)	1 pc(s).	1	5001.214	5001.215
Sliding plate, depth 6" (150 mm)	1 pc(s).	1	5001.239	5001.240
Module plate, Depth 9.4" (237.5 mm)	1 pc(s).	2	–	7825.381
			7825.360	7825.380
			–	7825.387

D Cable entry rear or front			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	2	5001.222	5001.223
Base plate, depth 4" (100 mm)	1 pc(s).	1	5001.214	5001.215
Sliding plate, depth 6" (150 mm)	1 pc(s).	2	5001.239	5001.240
Self-adhesive foam cable clamp strip	118" (3 m)	1	2573.000	2573.000

E Cable entry center			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	2	5001.222	5001.223
Base plate, depth 4" (100 mm)	1 pc(s).	1	5001.214	5001.215
Sliding plate, depth 6" (150 mm)	1 pc(s).	2	5001.239	5001.240
Profile for cable entry, center	1 set(s)	1	8802.060	8802.080



- 1 Base plate, depth 10" (250 mm)
- 2 Base plate, depth 6" (150 mm)
- 3 Base plate, depth 4" (100 mm)
- 4 Base plate, depth 2" (50 mm)
- 5 Sliding plate, depth 6" (150 mm)
- 6 Module plate, depth 9.4" (237.5 mm)
- 7 Self-adhesive foam cable clamp strip
- 8 Profile for cable entry, center

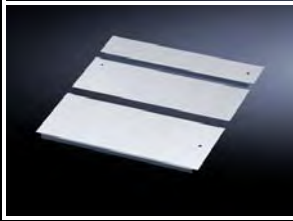


Also required:

- Base mount, see page 439

Base

Base



For enclosure depth 47" (1200 mm)

A Base plate kit	Packs of	Packs required	For enclosure width inches (mm)	
			24 (600)	32 (800)
			Model No.	
Base plate, solid, with sliding panel, multi-piece	1 set(s)	1	5502.560	5502.570

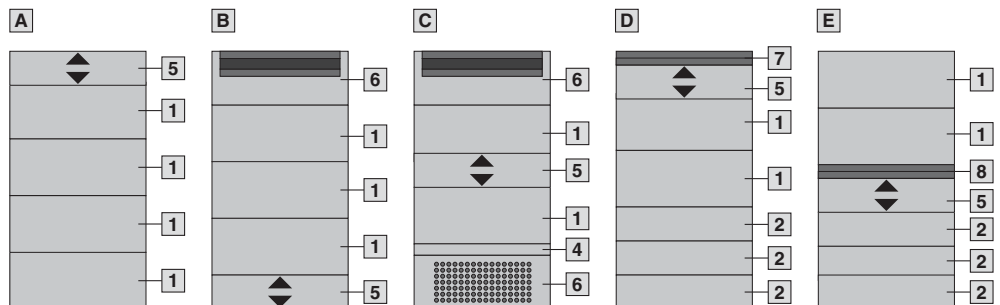
Base plate modules	Packs of	Packs required	For enclosure width inches (mm)	
			24 (600)	32 (800)

B 1 module plate as required			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	3	5001.222	5001.223
Sliding plate, depth 6" (150 mm)	1 pc(s).	1	5001.239	5001.240
Module plate, Depth 9.4" (237.5 mm)	Cable entry with brush strip	1 pc(s).	-	7825.381
	Vented		7825.360	7825.380
	Cable entry with brush strip, super-airtight		-	7825.387

C 2 module plates as required			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	2	5001.222	5001.223
Base plate, depth 2" (50 mm)	1 pc(s).	1	5001.210	5001.211
Sliding plate, depth 6" (150 mm)	1 pc(s).	1	5001.239	5001.240
Module plate, Depth 9.4" (237.5 mm)	Cable entry with brush strip	1 pc(s).	-	7825.381
	Vented		7825.360	7825.380
	Cable entry with brush strip, super-airtight		-	7825.387

D Cable entry rear or front			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	2	5001.222	5001.223
Base plate, depth 6" (150 mm)	1 pc(s).	3	5001.218	5001.219
Sliding plate, depth 6" (150 mm)	1 pc(s).	1	5001.239	5001.240
Self-adhesive foam cable clamp strip	118" (3 m)	1	2573.000	2573.000

E Cable entry center			Model No.	
Base plate, depth 10" (250 mm)	1 pc(s).	2	5001.222	5001.223
Base plate, depth 6" (150 mm)	1 pc(s).	3	5001.218	5001.219
Sliding plate, depth 6" (150 mm)	1 pc(s).	1	5001.239	5001.240
Profile for cable entry, center	1 set(s)	1	8802.060	8802.080



- 1 Base plate, depth 10" (250 mm)
- 2 Base plate, depth 6" (150 mm)
- 3 Base plate, depth 4" (100 mm)
- 4 Base plate, depth 2" (50 mm)
- 5 Sliding plate, depth 6" (150 mm)
- 6 Module plate, depth 9.4" (237.5 mm)
- 7 Self-adhesive foam cable clamp strip
- 8 Profile for cable entry, center



Also required:

- Base mount, see page 439

Closure plate**for CM, TP**

To cover the entire base opening for CM or as a cover for the TP pedestal.

Material:

- Carbon steel

Surface finish:

- Textured paint

Color:

- RAL 7035

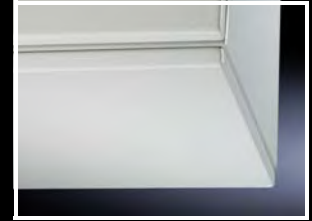
Protection category IP to IEC 60 529:

- IP 55

Supply includes:

- Assembly components

For enclosure		Model No.
Width inches (mm)	Depth inches (mm)	
24 (600)	16 (400)	5001.130
32 (800)	16 (400)	5001.140
39 (1000)	16 (400)	5001.150
47 (1200)	16 (400)	5001.160
63 (1600)	16 (400)	6730.030
32 (800)	20 (500)	6730.110
47 (1200)	20 (500)	6730.120
63 (1600)	20 (500)	6730.130

**Base plate module, vented****for TS, TS IT, SE**

Large perforated section for passive enclosure ventilation.

Base plate depth:

- 237.5 mm

Supply includes:

- Filter mat and hook and loop tape

For enclosure width inches (mm)	Model No.
24 (600)	7825.360
32 (800)	7825.380

**Also required:**

- Base mount for installation in TS IT, see page 439
- Base plates for installation in TS IT, see page 443

**Base plate module, one-piece, with brush strip****for TS, TS IT, SE**

For simple, sealed cable entry.

Base plate depth:

- 237.5 mm

For enclosure width inches (mm)	Model No.
32 (800)	7825.381

**Also required:**

- Base mount for installation in TS IT, see page 439
- Base plates for installation in TS IT, see page 443

**Base plate module, two-piece, with brush strip****for TS, TS IT, SE**

Special brush strips with alternate offset brushes for optimum protection of correct cable entry. The two-piece design even allows retrospective fitting of the base module with the cables already installed.

Base plate depth:

- 237.5 mm

Material:

- Module plate: Carbon steel
- Brush strip: Plastic, UL 94-V0

Surface finish:

- Module plate: zinc-plated

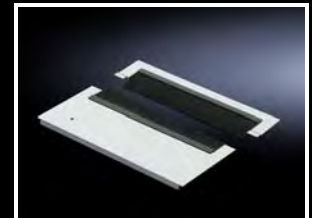
Supply includes:

- Assembly components

For enclosure width inches (mm)	Packs of	Model No.
32 (800)	1 pc(s).	7825.387

**Also required:**

- Base mount for installation in TS IT, see page 439
- Base plates for installation in TS IT, see page 443



Base

Base



Pressure relief plugs

Pressure differences can cause condensation to form in sealed housings, especially when the housing is exposed to changing climatic conditions (e.g. with outdoor siting). The integrated sealing membrane largely prevents these pressure differences and the build-up of condensate, as well as protecting against the penetration of moisture from outside. Installation is in vertical surfaces, to protect against dirt.

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

Technical specifications:

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

Material:

- Polyamide

Color:

- Similar to RAL 9005

Protection category IP to IEC 60 529:

- IP 66, 68

Protection category IP to DIN 40 050-9:

- 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).

Required hole diameter 16 mm.

(In AE carbon steel, the hole is already present in the base.)

Material:

- Polyamide

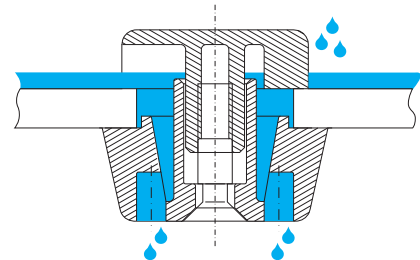
Color:

- Similar to RAL 7035

Protection category:

- Splash-proof at the bottom when installed per instructions

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



Oiltight hole seals

To seal open holes, openings, cut-outs for switches, hoses or cables. Seals opening with minimum diameter 0.19" and can be used with material thickness of up to 0.31".

Material:

- Carbon steel: RAL 7035
- Stainless steel 1.4301 (AISI 304)

Protection category NEMA:

- Carbon steel: NEMA 12, 3R, 4
- Stainless steel: NEMA 12, 3R, 4X



Carbon steel

Description	Packs of	Model No.	Model No. US
Cut-out for oilproof switch 22.5 mm (IEC)	1 pc(s).	8018.234	OHSMPBC
0.50" hole for cable conduit	1 pc(s).	8018.236	OHS050C
0.75" hole for cable conduit	1 pc(s).	8018.238	OHS075C
Standard cut-out for oilproof switch 30.5 mm (NEMA)	1 pc(s).	8018.240	OHSSPBC
1.00" hole for cable conduit	1 pc(s).	8018.242	OHS100C
1.25" hole for cable conduit	1 pc(s).	8018.244	OHS125C
1.50" hole for cable conduit	1 pc(s).	8018.246	OHS150C
2.00" hole for cable conduit	1 pc(s).	8018.250	OHS200C
2.50" hole for cable conduit	1 pc(s).	8018.252	OHS250C
3.00" hole for cable conduit	1 pc(s).	8018.254	OHS300C
3.50" hole for cable conduit	1 pc(s).	8018.256	OHS350C
4.00" hole for cable conduit	1 pc(s).	8018.258	OHS400C

Stainless steel 1.4301 (AISI 304))

Description	Packs of	Model No.	Model No. US
0.50" hole for cable conduit	1 pc(s).	8018.237	OHS0506
0.75" hole for cable conduit	1 pc(s).	8018.239	OHS0756
1.00" hole for cable conduit	1 pc(s).	8018.243	OHS1006
1.25" hole for cable conduit	1 pc(s).	8018.245	OHS1256
1.50" hole for cable conduit	1 pc(s).	8018.247	OHS1506
2.00" hole for cable conduit	1 pc(s).	8018.251	OHS2006

Walls

Sidewalls



Sidewalls, screw-fastened, carbon steel

for TS, TS IT

- Automatic potential equalization and higher EMC protection thanks to enclosure panel holders with grounding insert
- Easy positioning with the location aid
- Grounding bolt with contact surface

Material:

- Carbon steel, 1.5 mm

Surface finish:

- Dipcoat-primed, powder-coated on the outside

Protection category IP to IEC 60 529:

- IP 55

Supply includes:

- Assembly components

Note:

- Enclosure panel holders may be fitted either from the inside or outside of the enclosure
- Area available for population:
External dimension -100 mm



Accessories:

- Ground straps, see page 555
- Enclosure panel holders, internal, see page 451, with heavy installed components and high dynamic loads

For enclosures		Color		Packs of	Model No.
Height inches (mm)	Depth inches (mm)	RAL 7035	RAL 9005		
32 (800)	24 (600)	■	–	2 pc(s).	8173.235
39 (1000)	24 (600)	■	–	2 pc(s).	8174.235
47 (1200)	20 (500)	■	–	2 pc(s).	8115.235
47 (1200)	24 (600)	■	–	2 pc(s).	8170.235
47 (1200)	32 (800)	■	–	2 pc(s).	8175.235
47 (1200)	39 (1000)	■	–	2 pc(s).	8176.235
55 (1400)	20 (500)	■	–	2 pc(s).	8145.235
55 (1400)	24 (600)	■	–	2 pc(s).	8146.235
55 (1400)	32 (800)	■	–	2 pc(s).	8148.235
63 (1600)	20 (500)	■	–	2 pc(s).	8165.235
63 (1600)	24 (600)	■	–	2 pc(s).	8166.235
63 (1600)	32 (800)	■	–	2 pc(s).	8168.235
71 (1800)	16 (400)	■	–	2 pc(s).	8184.235
71 (1800)	20 (500)	■	–	2 pc(s).	8185.235
71 (1800)	24 (600)	■	–	2 pc(s).	8186.235
71 (1800)	32 (800)	■	–	2 pc(s).	8188.235
71 (1800)	39 (1000)	■	–	2 pc(s).	8180.235
79 (2000)	16 (400)	■	–	2 pc(s).	8104.235
79 (2000)	20 (500)	■	–	2 pc(s).	8105.235
79 (2000)	24 (600)	■	–	2 pc(s).	8106.235
79 (2000)	32 (800)	■	–	2 pc(s).	8108.235
79 (2000)	32 (800)	–	■	2 pc(s).	9969.916
79 (2000)	35 (900)	–	■	2 pc(s).	9968.597
79 (2000)	39 (1000)	■	–	2 pc(s).	8100.235
79 (2000)	39 (1000)	–	■	2 pc(s).	9968.596
79 (2000)	47 (1200)	■	–	2 pc(s).	9969.955
79 (2000)	47 (1200)	–	■	2 pc(s).	9969.956
87 (2200)	24 (600)	■	–	2 pc(s).	8126.235
87 (2200)	32 (800)	■	–	2 pc(s).	8128.235
87 (2200)	39 (1000)	–	■	2 pc(s).	9968.594

Sidewalls, screw-fastened, stainless steel

for TS

- Automatic potential equalization and higher EMC protection thanks to enclosure panel holders
- Easy positioning with the location aid
- Grounding bolt with contact surface

Material:

- Stainless steel 1.4301 (AISI 304), 1.5 mm

Surface finish:

- Brushed, grain 400

Protection category IP to IEC 60 529:

- IP 55

Supply includes:

- Assembly components

For enclosures		Packs of	Model No.
Height inches (mm)	Depth inches (mm)		
71 (1800)	16 (400)	2 pc(s).	8700.840
71 (1800)	20 (500)	2 pc(s).	8700.850
79 (2000)	24 (600)	2 pc(s).	8700.060



Accessories:

- Enclosure panel holders, internal, see page 451, with heavy installed components and high dynamic loads



Baying frame, IP 66/NEMA 4, NEMA 4X

for TS

To bay enclosure systems.

- Automatic potential equalization and higher EMC protection thanks to enclosure panel holders
- Easy positioning with the location aid
- Foamed-in on both sides

Material:

- Stainless steel 1.4301 (AISI 304), 1.5 mm

Surface finish:

- Brushed, grain 400

Protection category IP to IEC 60 529:

- IP 66

Protection category NEMA:

- NEMA 4
- NEMA 4X

Supply includes:

- Assembly components

For enclosures		Packs of	Model No.
Height inches (mm)	Depth inches (mm)		
79 (2000)	24 (600)	1 pc(s).	8700.010



Enclosure panel holders, internal

for TS

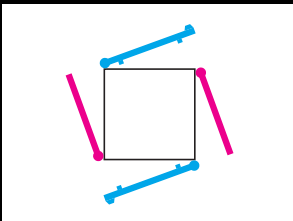
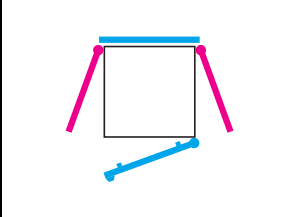
Additional fixing for side or rear walls with heavy installed components and high dynamic loads.

Packs of	Model No.
10 pc(s).	8800.071



Walls

Sidewalls



Hinges

for side panel, screw-fastened, carbon steel

The 180° opening angle allows unhindered access. Can be installed either from the inside or outside of the enclosure. A hinge can be used in place of three enclosure panel holders. The enclosure retains the same protection category when a hinge is used.

Material:

- Die-cast zinc

Supply includes:

- Assembly components

Version	Packs of	Model No.
RAL 7035	6 pc(s).	8800.110

Note:

- Side panel and door hinges (see page 492) may only be installed on the same enclosure section when using a 180° door hinge
- Important: Hinged and non-hinged red surfaces (side panels) must always be opposite one another, blue surfaces (doors/rear walls) must always be opposite one another
- Only one surface may be hinged on each vertical enclosure section

Split sidewalls

for TS IT

- Easy handling and tool-free assembly
- Quick-release fastener including 3524 E security lock
- Internal latch included (no key required)
- Lock with chassis, cable clamp rail may be top-mounted on the outer mounting level
- Suitable for IT climate control and rack extinguishing

Material:

- Carbon steel

Surface finish:

- Powder-coated

Color:

- RAL 9005

Supply includes:

- 1 top piece
- 1 bottom piece
- Ground conductor
- Assembly components

For enclosures		Packs of	Model No.
Height inches (mm)	Depth inches (mm)		
71 (1800)	32 (800)	1 pc(s).	5501.005
79 (2000)	24 (600)	1 pc(s).	5501.015
79 (2000)	32 (800)	1 pc(s).	5501.025
79 (2000)	39 (1000)	1 pc(s).	5501.035
79 (2000)	47 (1200)	1 pc(s).	5501.045
87 (2200)	32 (800)	1 pc(s).	5501.055
87 (2200)	39 (1000)	1 pc(s).	5501.065
87 (2200)	47 (1200)	1 pc(s).	5501.075

Paint

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

	RAL color	Model No.
12 ml touch-up applicator	7035	9095.006
1000 ml paint tin	7035	9094.006
150 ml aerosol	7035	9093.006

Partition walls

Partition wall

with cable management for TS, TS IT

For side partitioning of bayed TS enclosures.
Can be fitted without tools or additional hardware.
With 112 mm holes for cable routing.

Material:

- Carbon steel

Surface finish:

- Textured paint

Color:

- Black

Supply includes:

- Grommets for cable routing

Height inches (mm)	Depth inches (mm)	Model No.
79 (2000)	47 (1200)	9971.044
87 (2200)	47 (1200)	9971.048

Note:

- Use baying connector 8800.490
- Not suitable for use in conjunction with a baying seal
- Can be fitted and removed without moving the enclosure



Partition wall, solid

for TS, TS IT

For side partitioning of bayed TS enclosures.
Can be fitted without tools or additional hardware.

Material:

- Carbon steel

Surface finish:

- Textured paint

Color:

- Black

Height inches (mm)	Depth inches (mm)	Model No.
79 (2000)	39 (1000)	9978.378
79 (2000)	41 (1050)	9978.379
79 (2000)	47 (1200)	9978.380
87 (2200)	41 (1050)	9978.383
87 (2200)	47 (1200)	9978.384

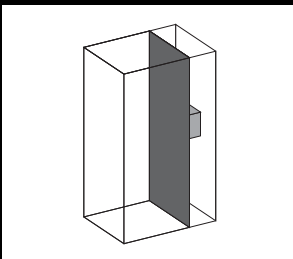
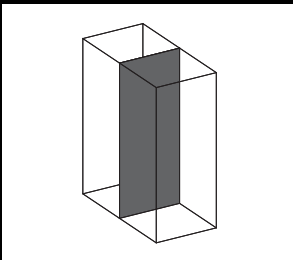
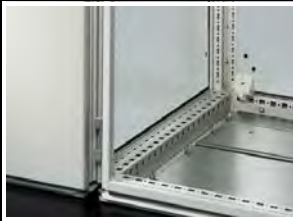
Note:

- Use baying connector 8800.490
- Not suitable for use in conjunction with a baying seal
- Can be fitted and removed without moving the enclosure



Walls

Partition walls



Partition wall

for TS

To shield individual enclosure cells. The symmetry of the frame system means the partition wall can also be used at the rear. All-round, double edging for stability and to accommodate the seal.

Notches in the corners and half-way up the sides permit the use of angular baying brackets and baying brackets, even with a divider panel fitted. Mounted on the outer mounting level. The inner level remains free for further expansion.

Material:

- Carbon steel, 1.5 mm

Surface finish:

- Zinc-plated

Protection category IP to IEC 60 529:

- IP 54

Supply includes:

- Assembly components

Note:

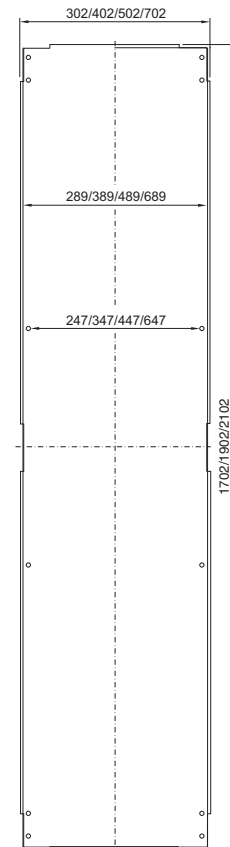
- The divider panel may also be fitted at the rear to allow, e.g. frequency converters for heat dissipation to be installed in a divider panel with the cooling units facing outwards and protected/concealed with a cover (see page 457)



Accessories:

- Cover with door, see page 457
- Baying attachment, vertical 8800.470 for enclosures with divider panel fitted, see page 464

For enclosures		Model No.
Height inches (mm)	Depth inches (mm)	
71 (1800)	16 (400)	8609.840
71 (1800)	20 (500)	8609.850
71 (1800)	24 (600)	8609.860
79 (2000)	16 (400)	8609.040
79 (2000)	20 (500)	8609.050
79 (2000)	24 (600)	8609.060
79 (2000)	32 (800)	8609.080
87 (2200)	24 (600)	8609.260



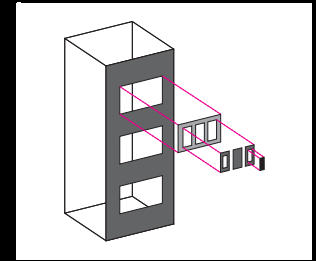
The partition wall and module plate system

More options:

The divider panel cut-outs are individually equipped with module plates for 16-pole or 24-pole connectors, with module plates for cable entry and with solid module plates.

Faster assembly:

Usually only some of the total number of connector cut-outs are used. Thanks to the new divider panel technique, the cut-outs do not need to be covered individually. The solid module plate is used instead. The benefit: Fewer plates, fewer screws, less assembly work.



Partition wall

for TS module plates

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 edging for stability and to accommodate the seal. The symmetry of the enclosure frame means divider panels of the appropriate dimensions can also be fitted at the rear. Mounted on the outer mounting level. In this way the inner level remains free for further enclosure expansion.

Material:

- Carbon steel, 2 mm

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components and M5 x 12 mm multi-tooth screws for mounting the module plates

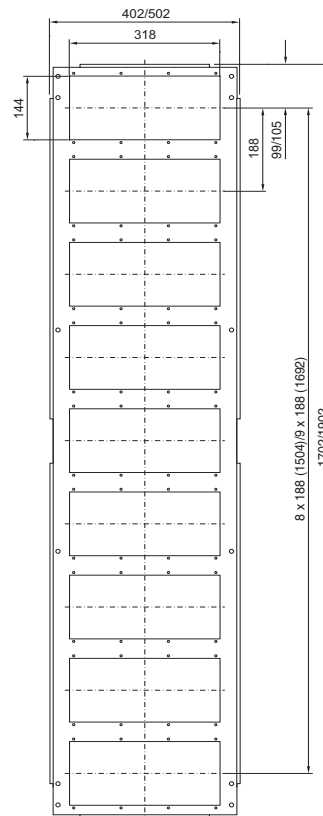
Note:

- Notches in the corners and half-way up the sides permit the use of angular baying brackets and baying brackets, even with a divider panel fitted

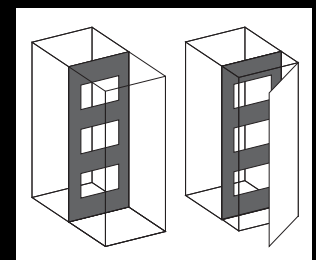


Accessories:

- Module plates, see page 456
- Cover with door, see page 457
- Baying attachment 8800.470 for enclosures with divider panel fitted, see page 464



For enclosures		Number of cut-outs	Model No.
Height inches (mm)	Depth inches (mm)		
71 (1800)	20 (500)	9	8609.100
71 (1800)	24 (600)	9	8609.110
79 (2000)	20 (500)	10	8609.120
79 (2000)	24 (600)	10	8609.130



Walls

Partition walls

Module plates

Material:

- Carbon steel, 2 mm

Surface finish:

- Zinc-plated

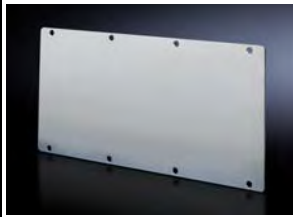
Supply includes:

- Seal

Version	Cut-outs	Packs of	Model No.
Solid	–	1 pc(s).	8609.160
For 16-pole connectors	4	1 pc(s).	8609.150
For 24-pole connectors	4	1 pc(s).	8609.140
For cable entry	1	1 pc(s).	8609.170
With cable grommet	1	1 pc(s).	8609.390

Solid

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



For 16/24-pole connectors

With cut-outs to accommodate connectors. In addition to mounting on divider panels, module plates may also be attached to the 25 mm hole pattern of the enclosure and to the rails of the TS/PS system.



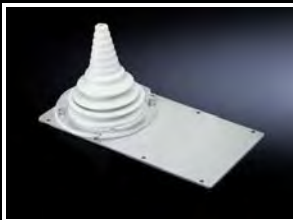
For cable entry

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



With cable grommet

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



Accessories:

- Adapter, cover plate, see page 456
- Connector gland for connector cut-outs, see page 569
- Connector gland sealing frame and sealing module, see page 570



Accessories:

- Cable ties for quick mounting 2597.000, see page 576

Adapter

for connector cut-outs

To use connectors with varying numbers of poles.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Seal and assembly components

For reduction	Packs of	Model No.
from 24 to 16 poles	5 pc(s).	2479.000
from 24 to 10 poles	5 pc(s).	2480.000
from 24 to 6 poles	5 pc(s).	2481.000
from 16 to 10 poles	5 pc(s).	2401.000
from 16 to 6 poles	5 pc(s).	2402.000



Partition walls

Cover plate

for connector cut-outs

For unused cut-outs.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Seal and assembly components

For	Packs of	Model No.
24-pole cut-outs	20 pc(s).	2477.000
16-pole cut-outs	20 pc(s).	2478.000



Cover with door

for TS

- To protect and conceal connectors or other installed equipment
- Cable entry optionally from above or below

Material:

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

Color:

- RAL 7035

Supply includes:

- Cover
- Door with locking rod and double-bit lock insert
- 1 cover plate for top or bottom

For enclosures		Model No.
Height inches (mm)	Depth inches (mm)	
79 (2000)	20 (500)	8609.020
79 (2000)	24(600)	8609.030



Accessories:

- Lock inserts, type F, see page 488
- Comfort handle, see page 482
- 180° hinge, see page 492



Interconnect kit



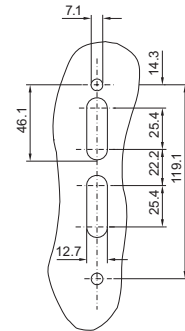
Interconnect kit

To securely lock enclosures and enclosure suites in combination with circuit breakers up to 200 A.

- Allen Bradley 1494 F-M1/P1/S1 and 140 U-K-FCX04
- Square D 9422 A1
- ITE Siemens Max-Flex series/FHOH (only available in the USA)
- General Electric TDA Type 1 and 2
- Eaton Cutler Hammer C361/C371
- Allen Bradley 140 U

Please order 4911.000 (see page 459) and the appropriate interconnecting rods for bayed enclosures to complete the assembly kit.

Cut-out for main switch

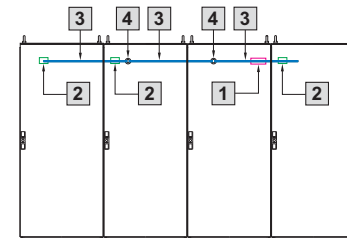


Main door lock	Model No.
For TS	8611.310

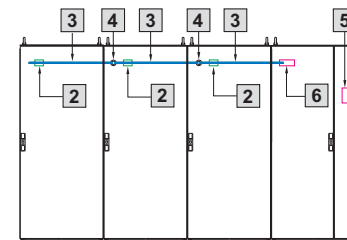
Note:

- The operating mechanism is included in the scope of supply 8611.310 (4912.000 see page 459)
 - Included in the scope of supply of the FMD main enclosure
- 1 Operating mechanism, installation in enclosure with main switch
 - 2 Adjacent door lock, installation in an adjacent enclosure
 - 3 Interconnecting rod
 - 4 Connection component (included in the interconnecting rod scope of supply)
 - 5 FMD main door lock
 - 6 Operating mechanism, installation in main enclosure (included in the scope of supply for the FMD main door lock item 5)

without lock kit



with lock kit



Interconnect kit

TS isolator door cover (USA version)

Incl. main door lock to securely lock enclosures and enclosure suites, meets US requirements, only in combination with actuator lever for master switch:

- Allen Bradley 1494 F-M1/P1/S1 and 140 U-K-FCX04
- Square D 9422 A1
- Siemens actuator for Max-Flex drives for SENTRON series molded-case circuit-breakers (ED, FD, LD, JD; not for Siemens 3VL circuit breakers) US model no.: FHOH
- General Electric TDA type 1 and 2
- Moeller NZM-XSHGVR 12-NA.

Advantages:

- When used in combination with
 - Operating mechanism
 - Adjacent door lock
 - Interconnecting rods
 fulfils the requirements of UL 508 A
- Compact design with 125 mm width, may optionally be fitted on the left or right of the enclosure. With this cover, all single-door standard TS 8 enclosures may be configured as isolator door enclosures. The complete installation surface of the enclosure is retained.
- In conjunction with the integratable TS mounting plate infill, see page 507, the mounting surface of the main enclosure can be enlarged by around 14%
- Cover may only be mounted on a single-door enclosure with tubular door frame

Material:

- Carbon steel

Surface finish:

- Powder-coated

Color:

- RAL 7035

Protection category to IEC 60 529:

- IP 55

Protection category NEMA:

NEMA 12

Supply includes:

- Main door lock, cover plate and assembly components

Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.
71 (1800)	4 (100)	16 (400)	8950.840
71 (1800)	4 (100)	20 (500)	8950.850
79 (2000)	4 (100)	20 (500)	8950.050
79 (2000)	4 (100)	24 (600)	8950.060



Also required:

- Operating mechanism, 4912.000, for enclosure with isolator door cover and additionally in every fourth adjacent enclosure, see page 459
- Adjacent door lock, 4911.000, 4911.100, for each adjacent enclosure, see page 459
- Interconnecting rods, for each adjacent enclosure in relevant enclosure width, see page 459
- TS side panel, screw-fastened, see page 450

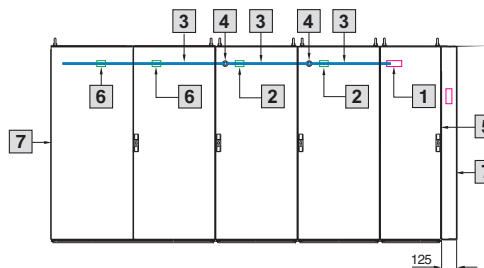


Accessories:

- Mounting plate infill, see page 507

Disconnecting switch lock (USA version)

- 1 Operating mechanism
- 2 Adjacent door lock (single door)
- 3 Interconnecting rod
- 4 Connection component
- 5 Main door lock
- 6 Adjacent door lock (double door)
- 7 TS side panel, screw-fastened



Technical details:

Available on the Internet



Door latch for bayed enclosure suites

To extend **conventional master switch** door locks to TS bayed enclosures. Main door must be opened before the other doors can be opened.

1 Operating mechanism

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

2 Adjacent door lock

Fitted in adjacent enclosure

3 Interconnecting rods

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

	Packs of	Model No.
Operating mechanism	1 pc(s).	4912.000

	Packs of	Model No.
Adjacent door lock for Single-door enclosures	1 pc(s).	4911.000
Double-door enclosures	1 pc(s).	4911.100

For enclosure width inches (mm)	Packs of	Model No.
24 (600)	10 pc(s).	4916.000
32 (800)	10 pc(s).	4918.000
47 (1200)	10 pc(s).	4920.000

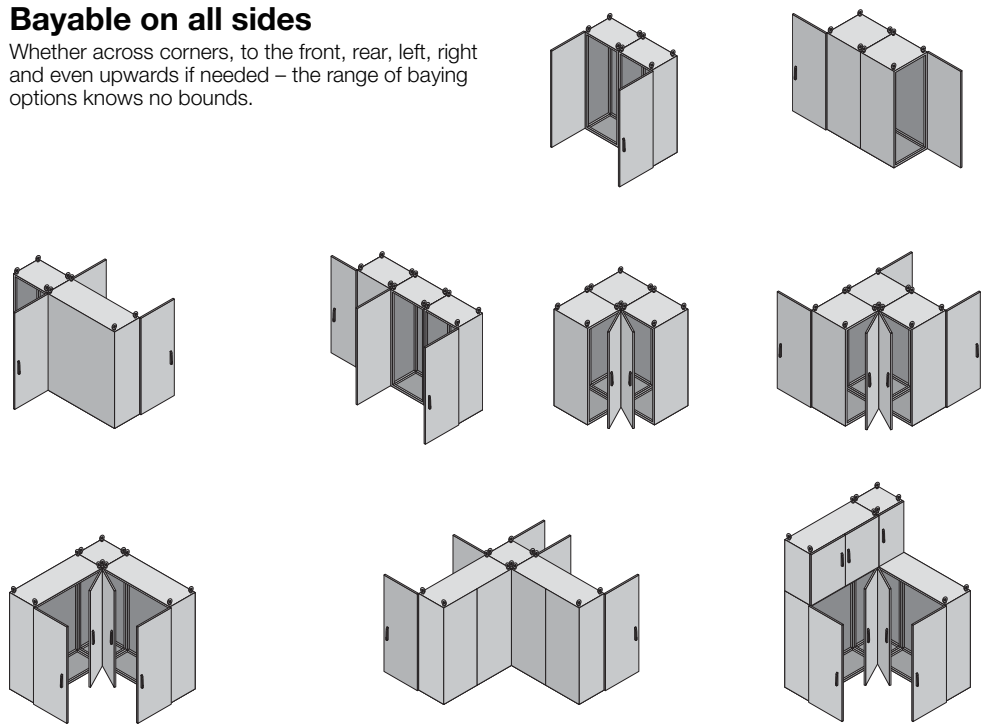


Baying Systems

Baying

Bayable on all sides

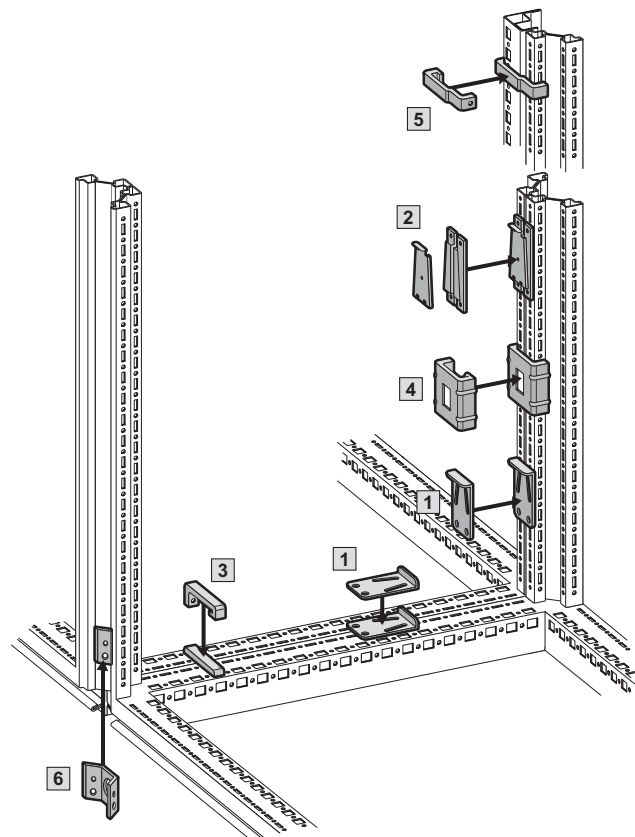
Whether across corners, to the front, rear, left, right and even upwards if needed – the range of baying options knows no bounds.



For baying at the installation site or temporary assembly in the workshop

- 1 Quick-fit baying connector, one-piece
- 2 Quick-fit baying connector, three-piece
- 3 Baying clamp, horizontal
- 4 Baying clamp, vertical, for TS/TS
- 5 Baying clamp, vertical, for TS/PS
- 6 Baying connector, external

Notes on transporting bayed enclosures, see page 462.



1 Quick-Fit Baying Connector, One-Piece

for TS/TS

Simply attach the screws, insert the quick-release baying connector, tap in with a hammer and secure.

Material:

- Carbon steel

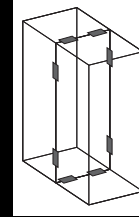
Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
6 pc(s).	8800.500



2 Quick-Fit Baying Connector, Three-Piece

for TS/TS

Simply slot in place, connect using the lock plate and secure.

Material:

- Carbon steel

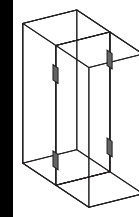
Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
6 pc(s).	8800.590



3 Baying Clamp, Horizontal

for TS/TS, TS/PS

To mount on horizontal enclosure profiles.

Material:

- Cast steel

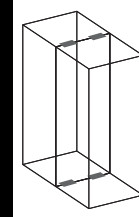
Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
4 pc(s).	8800.400



4 Baying Clamp, Vertical

for TS/TS

To mount on vertical enclosure profiles.

Material:

- Carbon steel

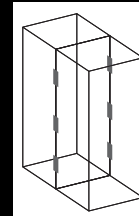
Surface finish:

- Zinc-plated

Supply includes:

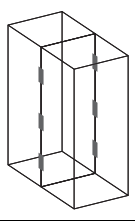
- Assembly components

Packs of	Model No.
6 pc(s).	8800.410



Baying Systems

Baying



5 Baying Clamp, Vertical

for TS/PS

To mount on vertical enclosure profiles.

Material:

- Cast steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
6 pc(s).	8800.420



6 Baying Connector, External

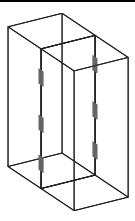
for TS/TS

To mount on vertical enclosure profiles. Locate on the exterior and screw-fasten either from the inside or the outside.

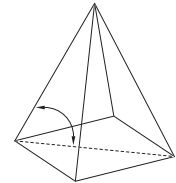
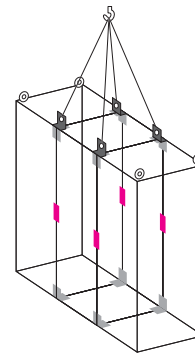
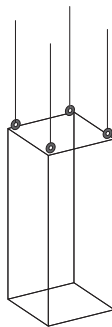
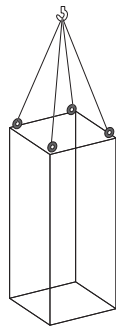
Supply includes:

- Assembly components

Material/surface	Packs of	Model No.
Carbon steel, zinc-plated	6 pc(s).	8800.490
Stainless steel 1.4301 (AISI 304)	6 pc(s).	8700.000



Notes on Transporting Bayed Enclosures



Individual enclosures are safely transported using the transportation eyebolts in the scope of supply. The following permitted total loads apply as long as loading is symmetrical:

- at 45° rope pull angle, 4,800 N
- at 60° rope pull angle, 6,400 N
- at 90° rope pull angle, 13,600 N

Note:

- The transportation eyebolts must be lined up with the rope pull direction

In the enclosure combination shown here with angular baying brackets, baying connectors and combination brackets, the loading capacity at a rope pull angle of 60° is:

- 7,000 N for the left enclosure
- 14,000 N for the middle enclosure
- 7,000 N for the right enclosure

The rope pull angle between the roof plate and the rope heavily influences the permitted total load.

The rope pull angle must never be less than 45° and angles of less than 60° should be avoided wherever possible.

For Transporting Bayed Enclosures

- 7 Angular baying brackets for TS/TS
- 8 Baying brackets for TS/TS and TS/PS

Note:

- The external baying connector (see page 462) can also be used as reinforcement
- When transporting large and heavy enclosure combinations, we recommend also using combination brackets 4540.000, see page 464

! Also required:

- For protection category IP 55:
One quick-fit baying connector at each half enclosure height, see page 461

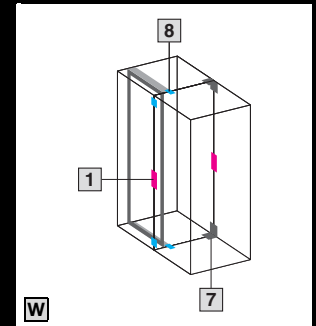
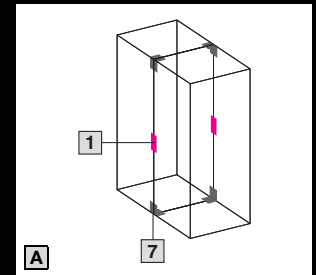
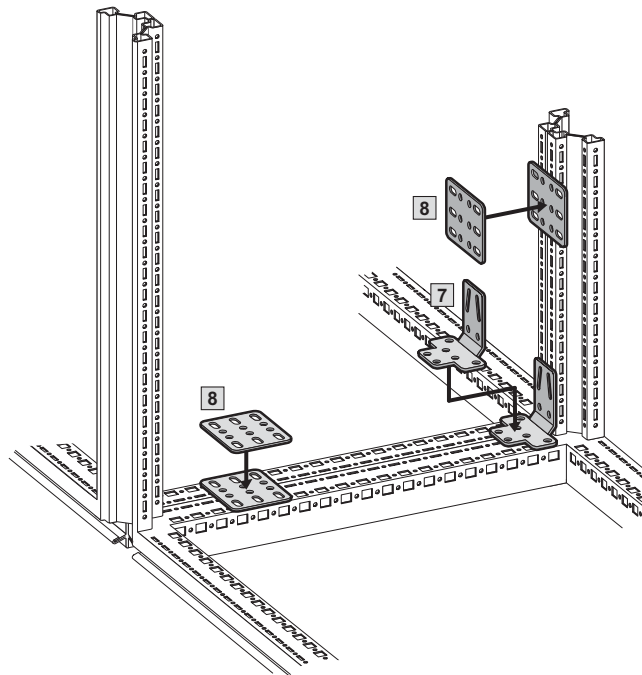
Notes on transporting bayed enclosures, see page 462

Example A

- 1 2 quick-fit baying connectors
8800.500
(see page 461)
- 7 4 angular baying brackets
8800.430
(see page 463)

Example B

- 1 2 quick-fit baying connectors
8800.500
(see page 461)
- 7 2 angular baying brackets
8800.430
(see page 463)
- 8 4 baying brackets
4582.500
(see page 464)
If the baying brackets cannot be fitted in the frontmost installation position due to attached equipment, e.g. large pivoting frame



7 Angular Baying Bracket for TS/TS

To provide a sturdy joint when transporting bayed enclosure suites.

Optional screw-fastening

- horizontal and vertical with 8 sheet metal screws
- horizontal with 2 screws and speed nuts M8, vertical with 4 sheet metal screws

Material:

- Carbon steel

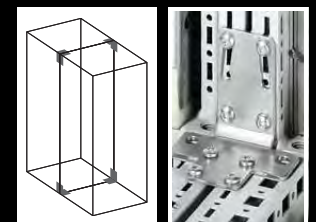
Surface finish:

- Zinc-plated

Supply includes:

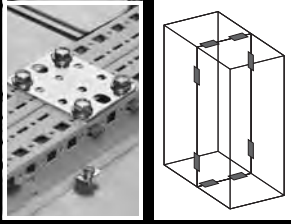
- Assembly components

Packs of	Model No.
4 pc(s).	8800.430



Baying Systems

Baying



8 Baying Brackets

for TS/TS and TS/PS

For additional stabilization or if an angular baying bracket cannot be installed due to other equipment, such as:

- Mounting plate bracket
- Pivoting frame
- Busbar supports

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
4 pc(s).	4582.500



Accessories:

- For mounting on the vertical TS enclosure profile: Snap-on nut M8, 8800.808, see page 533



Angular Baying Bracket

The alternative to baying bracket 4582.500 and for individual interior fittings.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

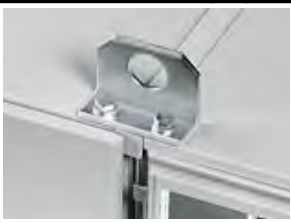
- Assembly components

Packs of	Model No.
4 pc(s).	4582.000



Also required:

- For mounting on the horizontal TS enclosure profile: Captive nuts/threaded blocks M8, see page 538
- For mounting on the vertical TS enclosure profile: Snap-on nut M8, 8800.808, see page 533



Combination Bracket

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

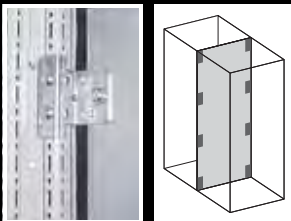
Packs of	Model No.
4 pc(s).	4540.000



Accessories:

- Top baying cover, see page 466

Notes on transporting bayed enclosures, see page 462



Baying Attachment, Vertical

for TS/TS with partition wall

Only suitable for mounting in conjunction with the divider panel angle brackets (included with the supply).

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
8 pc(s).	8800.470

Note:

- May also be used for side or rear wall attachment/fastening of enclosures. In such cases, additional holes must be drilled in the side or rear panel.

Baying Attachment, Vertical for TS/TS

For baying two populated enclosures on the vertical enclosure profile. Locate in the vertical TS punchings, secure and join the two brackets using the hex screws supplied. Using the fastening bolts, the enclosure is pulled into a defined end position, with a height or side offset of up to ± 2 mm.

Material:

- Carbon steel

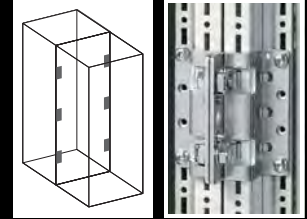
Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
6 pc(s).	8800.670



Baying Cover, Vertical

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

Material:

- Cover section: Plastic

Color:

- RAL 7035

Supply includes:

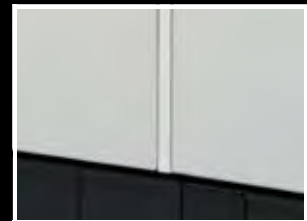
- Assembly components

Packs of	Model No.
2 pc(s).	8800.870



Also required:

- Baying connector, external, 8800.490, see page 462



Baying Connector, Horizontal for back-to-back mounting

Two-piece for in site assembly of enclosures with mounting plate in the rearmost installation position.

Material:

- Carbon steel

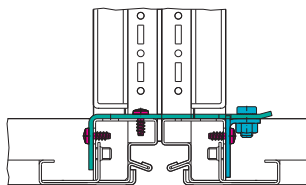
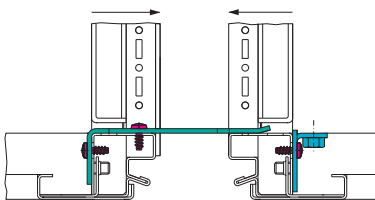
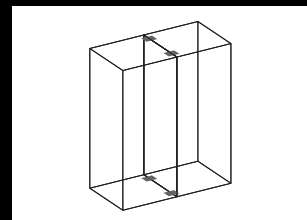
Surface finish:

- Zinc-plated

Supply includes:

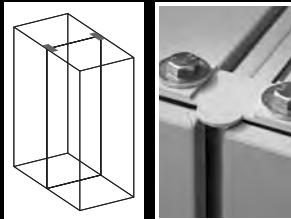
- Assembly components

Packs of	Model No.
4 pc(s).	8800.170



Baying Systems

Baying



Baying Cover, Top

A clip-in cover with two end caps is also available to cover the seal between two enclosures. This helps to prevent dirt and moisture from collecting on the baying seal.

Supply includes:

- Assembly components
- 2 end caps

Note:

- Can also be fitted along the width of enclosures bayed back-to-back.
- Can be used in conjunction with dust guard trim, see page 500

For enclosure depth inches (mm)	Packs of	Plastic RAL 7035	Stainless steel 1.4301 (AISI 304)	Model No.
16 (400)	1 pc(s).	■	–	8800.845
20 (500)	1 pc(s).	■	–	8800.855
24 (600)	1 pc(s).	■	–	8800.865
32 (800)	1 pc(s).	■	–	8800.885
47 (1200)	1 pc(s).	■	–	8800.825
16 (400)	1 pc(s).	–	■	8700.140
20 (500)	1 pc(s).	–	■	8700.150
24 (600)	1 pc(s).	–	■	8700.160

Baying Connector, External

for TS IT/TS IT with side panels

For retrospective baying of enclosures with screw-fastened or lockable side panels.

Material:

- Carbon steel

Color:

- RAL 7035

Supply includes:

- Assembly components

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

Baying Kit

for KL, AE

Special screws and nuts

- for quick and easy assembly without thread-tapping.
- keep the compression of the seal to a defined level to ensure a durable seal between the enclosures.

Seal, self-adhesive

- made up of bayable sealing components and corner pieces for individual adaptation to different housing sizes

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

Supply includes:

- Sealing elements
- Assembly components

Packs of	Model No.
1 set(s)	1199.100

Doors/Locks

Door models

Tubular door frame

for TS, TS IT, SE

Suitable for carbon steel doors that can accommodate tubular door frames.

Material:

- Pipe section: Carbon steel
- Corner connectors: Plastic

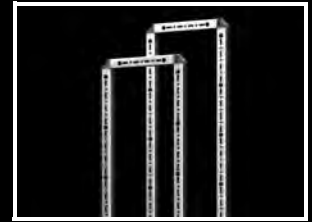
Surface finish:

- Pipe section: Zinc-plated

Supply includes:

- Assembly components

For doors		Packs of	Model No.
Height inches (mm)	Width inches (mm)		
79 (2000)	12 (300)	1 set(s)	5501.200
79 (2000)	16 (400)	1 set(s)	5501.210



Glazed door

for TS, TS IT

Alternative to a carbon steel door or rear wall.

Material:

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

Surface finish:

- Powder-coated

Color:

- 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 frame with safety glass
- Locking rod closure with double-bit lock insert
- 180° hinges (4 pcs)
- Visible area: H -160 mm, W -140 mm

For enclosures		Model No.
Height inches (mm)	Width inches (mm)	
71 (1800)	24 (600)	8610.685
71 (1800)	32 (800)	8610.885
79 (2000)	24 (600)	8610.605
79 (2000)	32 (800)	8610.805
87 (2200)	24 (600)	8610.625
87 (2200)	32 (800)	8610.825



Also required:

- When mounting instead of the rear wall: lock components for frame 8800.040, see page 468



Handle adapter

The handle adapter is fitted to the beveled door profile to provide a suitable surface for the installation of a comfort handle.

Material:

- Plastic

Supply includes:

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

For TS glazed door

Color	Model No.
RAL 7035	8611.080

For PC, lower door

Color	Model No.
RAL 7035	8611.300

Doors/Locks

Door models



Lock components

for TS, TS IT, SE

To retrofit a glazed door or carbon steel door in place of a rear wall.

Material:

- Die-cast zinc

Supply includes:

- Assembly screws

Packs of	Model No.
4 pc(s).	8800.040



Lockable and adjacent door

for TS, TS IT, SE

Where, for example, two 400 mm doors are to be used instead of one 800 mm wide door to provide for escape routes.

Material:

- Carbon steel

Surface finish:

- Dipcoat-primed, powder-coated on the outside

Supply includes:

- 2 doors incl. tubular door frame, hinges and lock components

For enclosures		Color RAL	Model No.
Height inches (mm)	Width inches (mm)		
79 (2000)	32 (800)	7035	8801.450



Accessories:

- Lock system, see page 482

Expansion accessories for TS modular front design

Modular front design

for TS 8 baying system

(see page 64)

Suitable for 400, 600 and 800 mm wide TS enclosures instead of a door or rear wall.

The partial doors with and without viewing window incl. cross members can be combined in any way you choose. A front trim panel is required at the top and bottom.

The example configuration on the right shows you what you need for your individual front design:

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



Partial doors

for TS

The door catch may be optionally located on the right or left. The partial door can be fastened to the TS enclosure without drilling. Monitor frame 2305.000 can be installed in partial doors without a viewing window (height 600 – 1000 mm). Standard double-bit lock insert may be exchanged for a type F lock insert, and for a comfort handle in systems over 600 mm high.

Material:

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

Surface finish:

- Textured paint

Color:

- RAL 7035

Supply includes:

- Cross member, hinges and lock components
- Assembly components

! Also required:

- Front trim panels, top, see page 470 or Trim panel, hinged at the top, see page 471
- Front trim panels, bottom, see page 471

+ Accessories:

- Monitor frame 2305.000, see page 476
- Lock inserts, type F, see page 488
- Comfort handle, see page 482
- Perforated mounting strips, see page 470

Technical details:

Available on the Internet

Protection category to IEC 60 529:

- IP 54, for complete enclosure

For enclosure width 16" (400 mm)

Height inches (mm)	With viewing window	Packs of	Model No.
6 (150)	–	1 pc(s).	9672.141
8 (200)	–	1 pc(s).	9672.142
12 (300)	–	1 pc(s).	9672.143
16 (400)	–	1 pc(s).	9672.144
24 (600)	–	1 pc(s).	9672.146
32 (800)	–	1 pc(s).	9672.148
39 (1000)	–	1 pc(s).	9672.140
63 (1600)	–	1 pc(s).	9672.156
71 (1800)	–	1 pc(s).	9672.158
79 (2000)	–	1 pc(s).	9672.150

For enclosure width 24" (600 mm)

Height inches (mm)	With viewing window	Packs of	Model No.
6 (150)	–	1 pc(s).	9672.161
8 (200)	–	1 pc(s).	9672.162
12 (300)	–	1 pc(s).	9672.163
16 (400)	–	1 pc(s).	9672.164
24 (600)	–	1 pc(s).	9672.166
24 (600)	■	1 pc(s).	9672.167
32 (800)	–	1 pc(s).	9672.168
32 (800)	■	1 pc(s).	9672.169
39 (1000)	–	1 pc(s).	9672.160
63 (1600)	–	1 pc(s).	9672.176
71 (1800)	–	1 pc(s).	9672.178
79 (2000)	–	1 pc(s).	9672.170

For enclosure width 32" (800 mm)

Height inches (mm)	With viewing window	Packs of	Model No.
6 (150)	–	1 pc(s).	9672.181
8 (200)	–	1 pc(s).	9672.182
12 (300)	–	1 pc(s).	9672.183
16 (400)	–	1 pc(s).	9672.184
24 (600)	–	1 pc(s).	9672.186
24 (600)	■	1 pc(s).	9672.187
32 (800)	–	1 pc(s).	9672.188
39 (1000)	–	1 pc(s).	9672.180
63 (1600)	–	1 pc(s).	9672.196
71 (1800)	–	1 pc(s).	9672.198
79 (2000)	–	1 pc(s).	9672.190



Doors/Locks

Expansion accessories for TS modular front design



Perforated mounting strips

for partial doors

For retro-fitting. The perforated mounting strips have a 25 mm hole pattern and can be used for individual mountings on the rear of the door, e.g. cable ducts, conduit holders etc.

Hole diameter of the perforated mounting strip:
4.5 mm

Material:

– Carbon steel, 1 mm

Surface finish:

– Zinc-plated

Supply includes:

– Assembly components

For enclosure width inches (mm)	Length inches (mm)	For partial door height inches (mm)	Packs of	Model No.
16 (400)	12 (298)	6 – 32 (150 – 800)	10 pc(s).	9671.204
24 (600)	20 (498)	6 – 32 (150 – 800)	10 pc(s).	9671.206
32 (800)	27 (698)	6 – 32 (150 – 800)	10 pc(s).	9671.208



Front trim panels, top

for TS

To blank off the top of the modular front when partial doors are used. The front trim panels can be removed from the outside by undoing the screws. The cross member required for mounting is included with the supply for the relevant partial door.

Material:

– Carbon steel, 2 mm

Surface finish:

– Textured paint

Color:

– RAL 7035

Protection category IP to IEC 60 529:

– IP 54

Supply includes:

– Assembly components

Height inches (mm)	For enclosure width inches (mm)	Packs of	Model No.
4 (100)	16 (400)	1 pc(s).	9672.314
12 (300)	16 (400)	1 pc(s).	9672.324
4 (100)	24 (600)	1 pc(s).	9672.316
12 (300)	24 (600)	1 pc(s).	9672.326
4 (100)	32 (800)	1 pc(s).	9672.318
12 (300)	32 (800)	1 pc(s).	9672.328

Expansion accessories for TS modular front design

Front trim panels, bottom

for TS

To blank off the bottom of the modular front when partial doors are used. The front trim panels can be removed from the outside by undoing the screws.

Material:

- Carbon steel, 2 mm

Surface finish:

- Textured paint

Color:

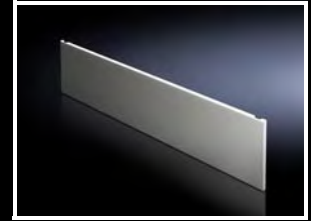
- RAL 7035

Supply includes:

- Front trim panel incl. cross member
- Assembly components

Protection category IP 54

Height inches (mm)	For enclosure width inches (mm)	Packs of	Model No.
4 (100)	16 (400)	1 pc(s).	9672.334
12 (300)	16 (400)	1 pc(s).	9672.344
4 (100)	24 (600)	1 pc(s).	9672.336
12 (300)	24 (600)	1 pc(s).	9672.346
4 (100)	32 (800)	1 pc(s).	9672.338
12 (300)	32 (800)	1 pc(s).	9672.348



Trim panel, hinged at the top

for TS

To install control and display components, in combination with

- Modular front design
- TS protective bar

Material:

- Carbon steel, 2 mm

Surface finish:

- Textured paint

Color:

- RAL 7035

Supply includes:

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

Height inches (mm)	Width inches (mm)	Packs of	Model No.
12 (300)	24 (600)	1 pc(s).	8801.230
12 (300)	32 (800)	1 pc(s).	8801.240
12 (300)	47 (1200)	1 pc(s).	8801.250

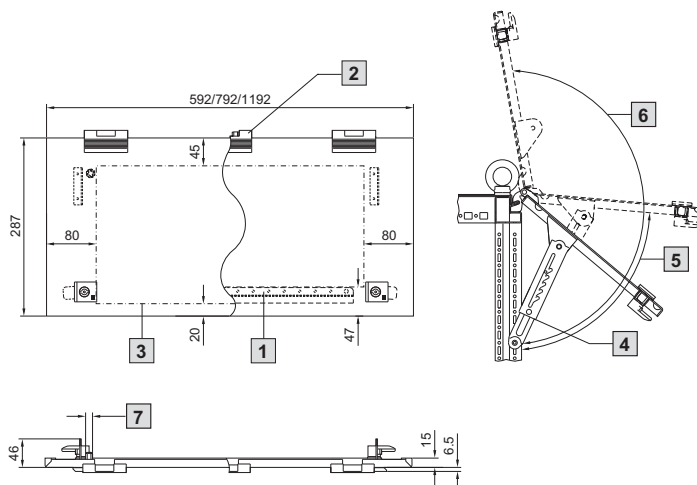
Note:

- Not in conjunction with top-mounted module for TS (see page 501)



Accessories:

- Stay for trim panel, hinged at the top, see page 472
- Lock inserts, type A, see page 488



- 1** Only for width 800 mm and 1200 mm
- 2** Only for width 1200 mm
- 3** Usable internal surface
- 4** Optional: Stay 8801.260

- 5** Max. opening angle with stay approx. 85°
- 6** Max. opening angle without stay approx. 190°
- 7** M8 grounding studs

Doors/Locks

Expansion accessories for TS modular front design



Drawer

for TS

For mouse and keyboard with a maximum width of 500/700 mm.

High level of protection, even with the flap open. Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, plastic handles, type B, and T handle, type B.

Material:

- Carbon steel

Color:

- RAL 7035

Height inches (mm)	Width inches (mm)	Model No.
8 (200)	24 (600)	8801.715
8 (200)	32 (800)	8801.915

Supply includes:

- Flap and assembly components
- Stay



Accessories:

- Lock inserts 27 mm, type A, see page 488
- Plastic handles, type B, see page 487
- T handles, type B, see page 487



Stay

for trim panel, hinged at the top

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Packs of	Model No.
2 pc(s).	8801.260

Viewing windows/operating panels

System window

To cover display and operating instruments or cut-outs, and provide protection from dirt and moisture as well as unauthorized access.

Made up of the following two 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
- Stabilizes the door cut-out
- Conceals the cut edge
- The rain canopy
 - prevents dirt from getting in the seal
 - stops the glass being lifted out
 - prevents the ingress of dirt and moisture when opening the window
- Frame profile height 30 mm or 60 mm

2. Viewing window:

- Made of single pane safety glass:
 - extremely resistant 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, and semi-cylinders in the Ergoform-S lock system (not with 2735.500 and .560)
- Hinge with 180° opening angle, easy to fit

Material:

- Extruded aluminum profile with die-cast zinc corner pieces and single-pane safety glass

Surface finish:

- Base frame: powder-coated, RAL 7035
- Hinge and lock profile: anodized, natural

Protection category to IEC 60 529:

- IP 54

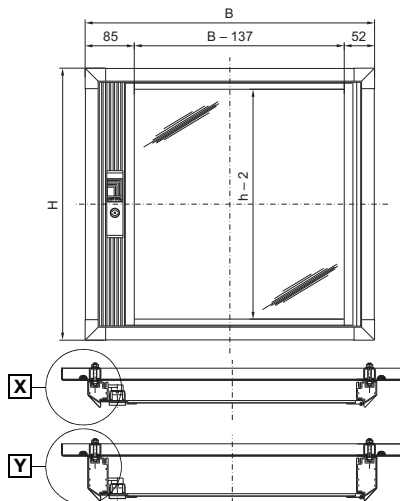
30 section

Suitable for TS, SE with width inches (mm)	Window dimensions, external inches (mm)		Model No.
	H	W	
24 (600)	11 (270)	20 (500)	2735.500
	15 (370)		2735.510
	19 (470)		2735.520
	22 (570)		2735.530
	26 (670)		2735.540
32 (800)	11 (270)	28 (700)	2735.560
	15 (370)		2735.570
	19 (470)		2735.580
	22 (570)		2735.590
	26 (670)		2735.250

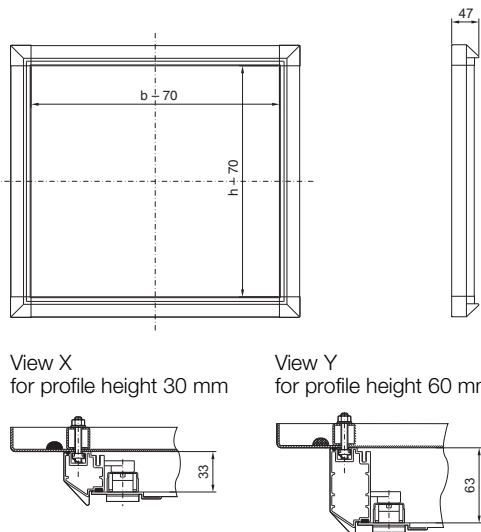
60 section

Suitable for TS, SE with width inches (mm)	Window dimensions, external inches (mm)		Model No.
	H	W	
24 (600)	15 (370)	20 (500)	2736.510
	19 (470)		2736.520
	22 (570)		2736.530
	26 (670)		2736.540
32 (800)	26 (670)	28 (700)	2736.500

Standard double-bit lock insert may be exchanged for lock inserts 27 mm, type A, see page 488 and/or for the Ergoform-S lock system, except H = 11" (270 mm), see page 486



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



Doors/Locks

Viewing windows/operating panels



Viewing window

Mounted on

- AE instead of door
- Surfaces

Max. installation depth: (depth -4 mm)

Visible area:

(height -60 mm) x (width -60 mm)

Material:

- Frame: Aluminum, natural anodized
- Glass panel: Acrylic

Protection category to IEC 60 529:

- IP 54

Supply includes:

- Plastic handle with lock insert no. 3524 E

Depth = 1.3" (34 mm)

Can be used as a door for	Height inches (mm)	Width inches (mm)	Model No.
1050.500, 1350.500 1007.600	20 (497)	20 (497)	2733.000
–	8 (197)	24 (597)	2734.000
1039.500, 1339.500 1009.600, 7641.000	15 (377)	24 (597)	2730.000
1010.500, 1054.500 1060.500, 1360.500 7643.000	24 (597)	24 (597)	2731.000
1012.500, 1076.500 1376.500, 7645.000	30 (757)	24 (597)	2732.000

Depth = 2.4" (60 mm)

Can be used as a door for	Height inches (mm)	Width inches (mm)	Model No.
1050.500, 1350.500 1007.600	20 (497)	20 (497)	2763.000
1039.500, 1339.500 1009.600, 7641.000	15 (377)	24 (597)	2760.000
1010.500, 1054.500 1060.500, 1360.500 7643.000	24 (597)	24 (597)	2761.000
1012.500, 1076.500 1376.500, 7645.000	30 (757)	24 (597)	2762.000

Packs of	Model No.
2 pc(s).	2772.000

Fold-out FT stay

A gas pressurized spring holds the viewing window securely open (top or side).

When the viewing window is closed, the gas pressurized spring disappears into the frame profile.

Clear acrylic cover

With security lock, lock no. 3524 E.

Material:

- Frame: Extruded aluminum profile with die-cast corner pieces
- Glass panel: Smoked acrylic

Protection category to IEC 60 529:

- IP 54

Clear acrylic covers, 19" (482.6 mm)

U	Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.
3	6 (158)	13 (320)	2 (47.5)	2780.000
3	6 (158)	21 (534)	2 (47.5)	2781.000
6	11 (291.5)	21 (534)	2 (47.5)	2782.000
9	17 (425)	21 (534)	2 (47.5)	2796.000

Max. installation depth: 43 mm

Visible area:

(height -20.5 mm) x (width -40 mm)

Metric acrylic covers

Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.
8 (200)	16 (400)	2 (47.5)	2784.000
16 (400)	16 (400)	2 (47.5)	2785.000
8 (200)	20 (500)	2 (47.5)	2786.000
16 (400)	20 (500)	2 (47.5)	2787.000
8 (200)	24 (600)	2 (47.5)	2788.000
16 (400)	24 (600)	2 (47.5)	2789.000

Max. installation depth: 43 mm

Visible area:

(height -20.5 mm) x (width -40 mm)

Viewing windows/operating panels

Viewing window

Stainless steel

Equipped 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, and Ergoform-S handle 2452.000.

Material:

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

Protection category to IEC 60 529:

- IP 54

Supply includes:

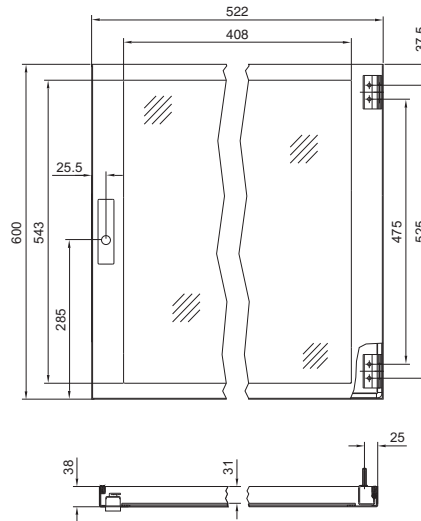
- Assembly components

Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.
24 (600)	21 (522)	2 (38)	2793.560



Accessories:

- Lock inserts 27 mm, type A, see page 488
- Ergoform-S handle 2452.000, see page 486



Window kit

Can be installed in most Rittal enclosures of suitable dimensions. The required hardware is included in the window kit. Oil-tight seals ensure a good all-round seal.

Material:

- Carbon steel: 2.0 mm
- Stainless steel 1.4301 (AISI 304): 2.0 mm

Surface finish:

- Carbon steel: Dipcoat-primed, powder-coated on the outside, textured paint
- Stainless steel: Brushed

Color:

- Carbon steel: RAL 7035

Protection category NEMA:

- Carbon steel: NEMA 12, 3R, 4
- Stainless steel: NEMA 12, 3R, 4X

Note:

- When determining the dimensions for the window, allow clearance for seals, retainers, door reinforcement, wiring plan pocket, door handles, locking rod and other parts to be fastened to the door or cover.



Window height inches (mm)	Window width inches (mm)	Frame height inches (mm)	Frame width inches (mm)	Model No.	Model No. US	Model No.	Model No. US
				Carbon steel		Stainless steel 1.4301 (AISI 304)	
5 (127)	3 (76)	8 (191)	6 (140)	8018.444	WK0503C	8018.445	WK05034
9 (229)	6 (140)	11 (292)	8 (203)	8018.447	WK0905C	8018.448	WK09054
13 (330)	8 (203)	16 (394)	11 (267)	8018.453	WK1308C	8018.454	WK13084
17 (432)	11 (279)	19 (495)	14 (343)	8018.459	WK1711C	8018.460	WK17114
23 (584)	15 (381)	26 (648)	18 (445)	8018.462	WK2315C	8018.463	WK23154

Doors/Locks

Viewing windows/operating panels



Monitor frame

for door width 600 and 800 mm

To cover a door cut-out, for all standard monitors up to 19" (482.6 mm).

Protection category to IEC 60 529:

– IP 54

Supply includes:

– Safety glass panel

Dimensions	Height inches (mm)	Width inches (mm)	Model No.
External dimensions	17 (430)	19 (470)	2305.000
Viewing area	13 (325)	15 (375)	
Cut-out required	15 (375)	16 (415)	



Labeling strips

To create individual field identifiers on the door, incl. transparent film and fixings.

For text labels:

Height: 29 mm

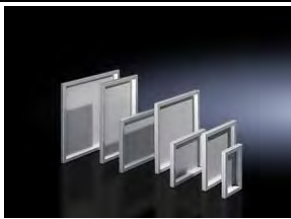
Width: Enclosure width -150 mm

Thickness: 0.75 mm

Color:

– RAL 7033

For enclosure width inches (mm)	Model No.
24 (600)	2403.000
32 (800)	2404.000



Operating panel

Mounted on

- AE instead of door
- Surfaces

Frame structure with internal corner connectors, 3 mm aluminum plate secured from the inside and sealed against the frame.

Material:

– Aluminum, natural anodized

Protection category to IEC 60 529:

– IP 54

Supply includes:

- Aluminum frame
- Display panel
- Hinges
- Brackets

Can be used as a door for AE	Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.
1001.600 1002.500 1002.600 1002.600 1032.500 1035.500	12 (297)	8 (197)	1 (34)	2740.000¹⁾
1004.600 1011.600 1030.500 1031.500				
1006.500 1006.600 1380.500	15 (377)	15 (377)	1 (34)	2742.000
1008.600 1038.500 1338.500				
1007.600 1013.600 1050.500 1350.500	20 (497)	20 (497)	1 (34)	2745.000
1009.600 1039.500 1339.500				
1010.500 1010.600 1060.500 1360.500	24 (597)	24 (597)	1 (34)	2744.000

¹⁾ With AE, only for use on the rear wall

Area available for population:
(height -70 mm) x (width -70 mm)

Dimensions of aluminum plate:
(height -54 mm) x (width -54 mm)



Accessories:

- Cam lock 2749.000, see page 477



Viewing windows/operating panels

Cam lock

Can be retrofitted to the operating area or housing wall of an operating panel.

Standard double-bit lock insert may be exchanged for type C lock inserts type C plastic handles.

Packs of	Model No.
1 pc(s).	2749.000



Accessories:

- Lock inserts, type C, see page 488
- Plastic handle, type C, see page 487



Allocation of Lock Systems

Compact Enclosures, Carbon Steel

		Housing series							
		EB	AE, AE wall-mounted housing		CM	KS		EL, 3-part	
Condition		-	with cam	with 3-point lock	-	with cam	with 3-point lock	3 – 15 U	18 – 21 U
	from page	33	42	44	52	54	55	98	98
Handle systems for housings									
Comfort handle									
For lock inserts	482	-	-	-	-	-	-	-	■
For padlock and lock inserts	482	-	-	-	-	-	-	-	■
With lock insert, lock E1	482	-	-	-	-	-	-	-	■
For semi-cylinder	482	-	-	-	-	-	-	-	■
Prepared for ASSA lock system	482	-	-	-	-	-	-	-	■
Mini comfort handle (from AE housing height 15" (380 mm), from AE housing width 12" (300 mm))									
For lock inserts	485	-	■	-	-	-	-	■	-
For semi-cylinder	485	-	■	-	-	-	-	■	-
Ergoform-S handle									
Standard	486	-	-	■	-	-	-	-	-
Special with lock insert, lock E1	486	-	-	■	-	-	-	-	-
Special, prepared for ASSA lock system	486	-	-	■	-	-	-	-	-
Standard for KS plastic enclosures	486	-	-	-	-	-	■	-	-
Folding lever handle									
For lock inserts	483	-	-	-	■	-	-	-	-
For padlock and lock inserts	483	-	-	-	■	-	-	-	-
With lock insert, lock E1	483	-	-	-	■	-	-	-	-
Semi-cylinder lock									
For AE	489	-	■	-	-	-	-	-	-
Plastic handles									
Version B	487	■	■	-	-	-	-	-	-
Version E	487	-	-	-	-	■	-	-	-
T handles									
Version B	487	■	■	-	-	-	-	-	-
Lock inserts for housing									
Lock inserts									
Version A	488	■	■	■	-	-	-	-	-
Version E	488	-	-	-	-	■	■	-	-
Version F	488	-	-	-	■	-	-	■	■
Lock cylinder inserts									
Version B	489	■	■	-	-	-	-	-	-

Lock inserts for handle systems			
Semi-cylinder	Lock inserts		
Safety and push-button lock inserts	Version A	Version F	Safety and push-button lock inserts
483	488	488	483

-	-	■	■
-	-	■	■
-	-	-	-
■	-	-	-
-	-	-	-
-	-	■	■
■	-	-	-
■	■	-	-
-	-	-	-
■	-	■	-
■	-	■	-
-	-	-	-
-	-	-	-

Allocation of Lock Systems

Large Enclosures, Carbon Steel

Condition	Housing series		
	TS, SE	PC enclosure	
		Door	For keyboard drawer or fold-out tray
	from page	64	115

Handle systems for housings

Comfort handle				
For lock inserts	482	■	■	-
For padlock and lock inserts	482	■	■	-
For semi-cylinder	482	■	■	-
With lock insert, lock E1	482	■	■	-
Prepared for ASSA lock system	482	■	■	-
With code	484	■	■ ¹⁾	-
Ergoform-S handle				
Standard	486	-	-	-
Special with lock insert, lock E1	486	-	-	-
Special, prepared for ASSA lock system	486	-	-	-

Lock inserts for housing

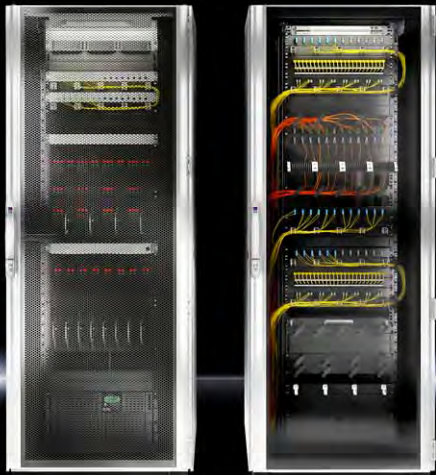
Lock inserts				
Version A	488	-	-	■
Version F	488	■	■	-

¹⁾ Can only be used with rear door

Lock inserts for handle systems			
Semi-cylinder	Lock inserts		
Safety and push-button lock inserts	Version A	Version F	Safety and push-button lock inserts
483	488	488	483

-	-	■	■
-	-	■	■
■	-	-	-
-	-	-	-
-	-	-	-
■	-	-	-
■	■	-	-
-	-	-	-
-	-	-	-

New



TS IT Network/ Server Enclosures

See page 87

Allocation of Lock Systems


Console Systems, Carbon Steel

		Housing series			
		TP TopConsole		TP one-piece console	
Condition		Desk unit and top piece	Pedestal	Console cover	Console door
	from page	109	109	113	113
Handle systems for housings					
Comfort handle					
For lock inserts	482	—	—	—	—
For padlock and lock inserts	482	—	—	—	—
For semi-cylinder	482	—	—	—	—
With lock insert, lock E1	482	—	—	—	—
Prepared for ASSA lock system	482	—	—	—	—
With code	484	—	—	—	—
Ergoform-S handle					
Standard	486	—	■	—	■
Special with lock insert, lock E1	486	—	■	—	■
Special, prepared for ASSA lock system	486	—	■	—	■
T handles					
Version B	487	■	—	■	—
Lock inserts for housing					
Lock inserts					
Version A	488	■	■	■	■
Version D	488	—	—	—	—
Version F	488	—	—	—	—
Lock cylinder inserts					
Version B	489	—	—	—	—

Lock inserts for handle systems			
Semi-cylinder	Lock inserts		
Safety and push-button lock inserts	Version A	Version F	Safety and push-button lock inserts
483	488	488	483

—	—	■	■
—	—	■	■
■	—	—	—
—	—	—	—
—	—	—	—
■	—	—	—
■	■	—	—
—	—	—	—
—	—	—	—

New



Command Panel with Handle Strips

See page 119

Allocation of Lock Systems

Housings and Enclosures, Stainless Steel


		Housing series				
		AE		One-piece console		SE
Condition		with cam	with 3-point lock	Console cover	Console door	
	Page	175/176	177	181	181	179/180
Handle systems for housings						
Comfort handle						
For lock inserts	482	–	–	–	–	■
For padlock and lock inserts	482	–	–	–	–	■
For semi-cylinder	482	–	–	–	–	■
With lock insert, lock E1	482	–	–	–	–	■
Prepared for ASSA lock system	482	–	–	–	–	■
Ergoform-S handle						
Standard	486	–	■	–	■	–
Special with lock insert, lock E1	486	–	■	–	■	–
Special, prepared for ASSA lock system	486	–	■	–	■	–
Plastic handles						
Version C	487	■ ¹⁾	–	■	–	–
T handles						
Version C	487	■ ¹⁾	–	■	–	–
Semi-cylinder lock						
for AE	489	■ ²⁾	–	–	–	–
Lock inserts for housing						
Lock inserts						
Version A	488	–	■	–	–	–
Version C	488	■	–	■	–	–
Version F	488	–	–	–	–	■
Lock cylinder inserts						
Version C	489	■	–	■	–	–

¹⁾ Not with 1018.600²⁾ Not with housings made from stainless steel 1.4401 (AISI 316L) and use of cam lock 2304.000

Lock inserts for handle systems			
Semi-cylinder	Lock inserts		
Safety and push-button lock inserts	Version A	Version F	Safety and push-button lock inserts
483	488	488	483

–	–	■	■
–	–	■	■
■	–	–	–
–	–	–	–
–	–	–	–
■	■	–	–
–	–	–	–
–	–	–	–
–	–	–	–
–	–	–	–
–	–	–	–
–	–	–	–

Accessories



Stainless Steel

See page 167

Doors/Locks

Lock systems



Comfort handle

for TS, TS IT, SE, PC

The folding lever handle leaves the surface of the door completely free allowing extra space for installed equipment.

Material:

- Die-cast zinc


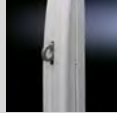



Surface finish:

- Powder-coated



Also required:

- Handle adapter, see page 467, for installation on glazed door TS, lower door PC

					
	For lock inserts	For padlock and lock inserts	With lock insert, lock E1 ¹⁾	For semi-cylinder	Prepared for ASSA lock system
	Model No.				
RAL 7035	8611.020	8611.290	8611.045	8611.070	8611.280
RAL 9005	8611.350	–	–	8611.360	–
Matt nickel-plated	8611.330	–	–	8611.340	–
Lock inserts, type F					
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 (CNOMO)	8611.220	8611.220	–	–	–
Safety and push-button lock inserts					
Lock insert, lock no. 3524 E ²⁾	8611.180	8611.180	–	2467.000	–
Push-button insert	8611.190	8611.190	–	2468.000	–
Push-button and lock insert ²⁾	8611.200 ³⁾	8611.200 ³⁾	–	2469.000 ⁴⁾	–

¹⁾ Only for use with VW, Audi, SEAT, SkodaAuto, supplied without key



²⁾ With 2 keys

³⁾ Lock no. 12321; other locks not suitable

⁴⁾ Lock no. 2123; other locks not suitable

Lock inserts

Fits in comfort handle, mini-comfort handle,
Ergoform-S standard, folding lever handle

Installation in		
	Safety and push-button lock inserts	
	Comfort handle ⁴⁾ , Mini-comfort handle ⁴⁾	Comfort handle ⁵⁾ , Mini-comfort handle ⁵⁾ , Ergoform-S standard, Folding lever handle for CM
	Model No.	
Lock insert lock no. 3524 E ¹⁾	8611.180	2467.000
Push-button insert	8611.190	2468.000
Push-button and lock insert ¹⁾	8611.200²⁾	2469.000³⁾

¹⁾ With 2 keys

²⁾ Lock no. 12321; other locks not suitable

³⁾ Lock no. 2123; other locks not suitable

⁴⁾ For lock inserts

⁵⁾ For semi-cylinder



Folding lever handle

for CM




The folding lever handle leaves the surface of the door completely free allowing extra space for installed equipment.

Dimensions:

- Length: 242 mm (when fitted)
- Width: 50 mm
- Depth: 17.5 mm

Color:

- Housing: similar to RAL 9005
- Handle: similar to RAL 9006

			
	For lock inserts	For padlock and lock inserts	With lock insert, lock E1 ¹⁾
	Model No.		
	5001.060	5001.062	5001.061

Lock inserts, type F

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 (CNOMO)	8611.220	8611.220	–

Safety and push-button lock inserts

Lock insert, lock no. 3524 E ²⁾	2467.000	2467.000	–
Push-button insert	2468.000	2468.000	–
Push-button and lock insert ²⁾	2469.000 ³⁾	2469.000 ³⁾	–

¹⁾ Only for use with VW, Audi, SEAT, SkodaAuto, supplied without key

²⁾ With 2 keys

³⁾ Lock no. 2123; other locks not suitable



Doors/Locks

Lock systems



Comfort handle

with code

for TS, TS IT, SE

Flexible access option with

- individual 3-digit number code, no key required or
- via master key function with additional use of 40 or 45 mm semi-cylinder in line with DIN 18 252, independent of number code

Color	Model No.
RAL 7035	7200.800
RAL 9005	7200.801



Accessories:

- Safety and push-button lock inserts, see page 483



Adjacent door lock

for TS

For easy operation of the adjacent door from the outside if the handle on the inside is difficult to access due to pivoting frames or 19" installed equipment. The adjacent door can easily be converted at a later date using the drilling template enclosed. The handle on the inside is no longer required.

Color:

- RAL 7035

Supply includes:

- Assembly components

Packs of	Model No.
1 pc(s).	8611.370



Accessories:

- Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, see page 488



Locking bar latch to CNOMO¹⁾

Suitable for all locking bars on TS doors and glazed doors, with standard lock or comfort handle

The latch prevents locking bars from moving when the door is open. For mounting on the bolt of the bar guide.

¹⁾ CNOMO is a specification by the French automobile industry, for safety reasons, it must not be possible to lock the handle while the door is open

Packs of	Model No.
10 pc(s).	8611.210



Also required:

- for CNOMO¹⁾
Lock inserts, type F, 6.5 mm triangular insert 8611.220, see page 488



Spring washer

When disassembling TS locking bars, the spring washers are not suitable for re-use.

Material:

- Spring steel

Surface finish:

- Zinc-plated

	Packs of	Model No.
Spring washer	100 pc(s).	8800.070

Mini-comfort handle**for AE with cam, EL 3-part**

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

Material:

– Die-cast zinc

Color:

– RAL 7035



				
	For lock inserts		For semi-cylinder	
	Model No.			
For housing system	EL	AE	EL	AE
	7705.110	2537.010	7705.120	2537.000
Lock inserts, type F				
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 (CNOMO)	8611.220	8611.220	–	–
Safety and push-button lock inserts				
Lock insert, lock no. 3524 E ¹⁾	8611.180	8611.180	2467.000	2467.000
Push-button insert	8611.190	8611.190	2468.000	2468.000
Push-button and lock insert ¹⁾	8611.200 ²⁾	8611.200 ²⁾	2469.000 ³⁾	2469.000 ³⁾

¹⁾ With 2 keys

²⁾ Lock no. 12321; other locks not suitable

³⁾ Lock no. 2123; other locks not suitable

Lock systems



Ergoform-S lock system


The unlocked handle folds out forwards and is pivoted to open the enclosure.

Material:

- Die-cast zinc

Surface finish:

- Powder-coated

			
	Standard	Standard for KS plastic enclosures	Special prepared for ASSA lock system
	Model No.		
Brown	–	–	2453.000
Matt nickel-plated	2452.000	–	–
RAL 7035	2435.000	1490.010	–
RAL 7035 with brown handle and bracket	2455.010	–	–
Lock inserts, type A			
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 (CNOMO)	2460.650	2460.650	–
Safety and push-button lock inserts			
Lock insert, lock no. 3524 E ¹⁾	2467.000	2467.000	–
Push-button insert	2468.000	2468.000	–
Push-button and lock insert ¹⁾	2469.000 ²⁾	2469.000 ²⁾	–

¹⁾ With 2 keys

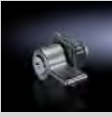






²⁾ Lock no. 2123; other locks not suitable

Plastic handles

with or without lock cylinder insert.

Supply includes:

- Assembly components and seal

Type	B		C		E		G
							
	With lock cylinder insert, lock no. 3524 E ¹⁾	Without lock cylinder insert	With lock cylinder insert, lock no. 3524 E ¹⁾	Without lock cylinder insert	With lock cylinder insert, lock no. 3524 E ¹⁾	Without lock cylinder insert	With lock cylinder insert, lock no. 3524 E ¹⁾
	Model No.						
RAL 9011	2576.000	2533.000	2485.000	2485.100	–	–	2599.000
RAL 8019	–	–	–	–	1484.000	1484.001	–

¹⁾ With 2 keys






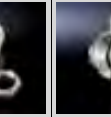


T handles

with or without lock cylinder insert.

Supply includes:

- Seal

Type	B		C		for JB, WM	
						
	With lock cylinder insert ¹⁾	Without lock cylinder insert	With lock cylinder insert ¹⁾	Without lock cylinder insert	Pad locking	Key locking
Model No.	2575.000²⁾	2572.000	2535.000²⁾	2536.000	8018.577	8018.982
Model No. US	–	–	–	–	WMQTPLS6	WMQTKLS6

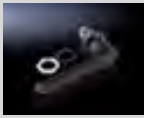


¹⁾ With 2 keys

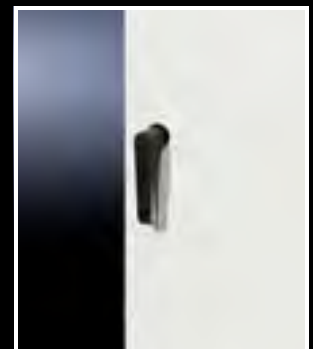
²⁾ Lock no. 3524 E



L-handle

for WM

				
		Non-locking	Pad-locking	Key-locking
Model No.	RAL 9011	8018.580	8018.581	8015.168
Model No. US		WMLHNL	WMLHPL	WMLHKL
Model No.	316 SS	8018.578	8018.579	8018.691
Model No. US		WMLHNLS6	WMLHPLS6	WMLHKLS6



Doors/Locks

Lock systems

Cam locks



						
	With double-bit insert	With lock cylinder insert ³⁾	With double-bit insert	With lock cylinder insert ³⁾	With lock insert, lock E1 ¹⁾	With double-bit insert
					RAL 7035	
Material: Housing	Die-cast zinc, nickel-plated		Fiberglass-reinforced polyamide			100% stainless steel 1.4404 (AISI 316L)
	Model No.					
	2520.000	2530.000	2420.000	2430.000	2540.500	2304.000

Lock inserts

7 mm square	2523.000	–	2460.000	–	–	–
8 mm square	2526.000	–	2461.000	–	–	–
7 mm triangular	2527.000	–	2462.000	–	–	–
8 mm triangular	2528.000	–	2463.000	–	–	–
Screwdriver	–	–	2464.000	–	–	–
Daimler insert	2522.000	–	2465.000	–	–	–
3 mm double-bit	2483.000	–	2466.000	–	–	–
Fiat	–	–	2307.000	–	–	–
6.5 mm triangular (CNOMO)	–	–	2460.650	–	–	–

Lock cylinder inserts

With lock no. 3524 E ²⁾	–	–	2571.000	–	–	–
------------------------------------	---	---	----------	---	---	---






¹⁾ Only for use with VW, Audi, SEAT, SkodaAuto, supplied without key

²⁾ With 2 keys



³⁾ Lock no. 3524 E



Lock inserts

Type	A	C	D	E	F
					
Material	Die-cast zinc	Die-cast zinc	Die-cast zinc	Plastic	Die-cast zinc
Length	27 mm	41 mm	47 mm		
	Model No.				
7 mm square	2460.000	2523.000	–	–	8611.100
8 mm square	2461.000	2526.000	–	1488.000	8611.110
7 mm triangular	2462.000	2527.000	–	–	8611.120
8 mm triangular	2463.000	2528.000	–	1486.000	8611.130
Screwdriver	2464.000	–	–	–	8611.140
Daimler insert	2465.000	2522.000	–	–	8611.150
3 mm double-bit	2466.000	2483.000	2484.000	1492.000	8611.160
Fiat	2307.000	–	–	–	8611.170
6.5 mm triangular (CNOMO)	2460.650	–	–	–	8611.220

Lock cylinder inserts

Type	B	C
		
	With lock no. 3524 E ¹⁾	With lock no. 3524 E ¹⁾
Material	Die-cast zinc	Die-cast zinc
	Model No.	
	2571.000	2525.000

¹⁾ With 2 keys



Semi-cylinder lock

for AE compact enclosures

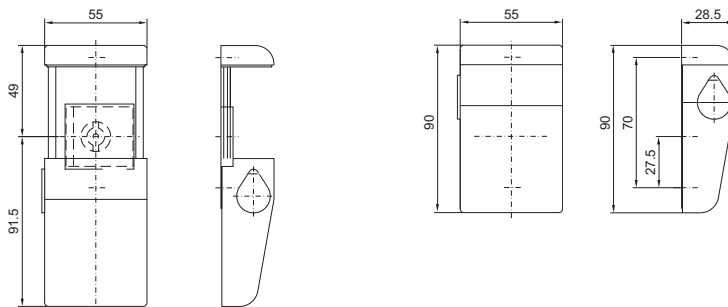
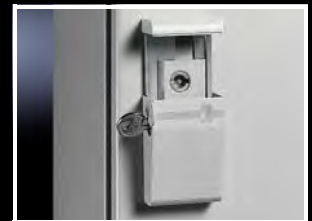
For retro-fitting to any single-door enclosure with cam lock.

The cover plate is locked with semi-cylinders measuring 40 or 45 mm overall (in line with DIN 18 252). Additional cover protects the cylinder from dirt. The protection category of the enclosure is not reduced. Supplied without semi-cylinder.

Material:

- Die-cast zinc

Type	Model No.
RAL 7035	2534.100
nickel-plated (matt)	2534.500



Lock cover

for padlocks or multiple locks

For retro-fitting to any AE compact enclosure made from carbon steel and with cam lock.

Material:

- Die-cast zinc

Surface finish:

- Nickel-plated

Packs of	Model No.
1 pc(s).	2493.000



Doors/Locks

Lock systems



Multiple lock

for 6 padlocks

The ideal solution when enclosure access is required by different maintenance and repair personnel.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

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



Safety lock

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

Function:

- Locks the door when the main switch is ON
- Mains power (voltage) is only enabled when the door is closed
- Lock magnets are monitored by an additional N.O. contact

Supply includes:

- Lock
- Actuator
- Angle bracket
- Assembly components

Supply voltage for lock magnet	Model No.
230 V AC 11 VA	2416.000
24 V DC 27 BTU (8 W)	2418.000
120 V AC 8 VA	2419.000



Also required:

- For double-door enclosures (indicating “enclosure door closed” for the overlapping door): door-operated switch 4127.010, see page 550







Padlock hasp

for EB, JB, AE, WM

Material	Model No.	Model No. US
Carbon steel	8018.973	WMPADRCS
Stainless steel 1.4301 (AISI 316)	8018.974	WMPADRS6

Enclosure key

For lock inserts (one double-bit key is supplied with every enclosure).

				
	Model No.			
	-	-	2549.000	2549.500 ²⁾³⁾
Double-bit key no. 5	2531.000	-	■	■
Security lock no. 3524 E	-	2532.000¹⁾	-	-
7 mm triangular	2545.000	-	-	■
8 mm triangular	2546.000	-	■	■
7 mm square	2547.000	-	-	■
8 mm square	2548.000	-	■	■
For HD locks	2549.600	-	-	-
For Daimler	2521.000	-	-	-
For Fiat	2308.000	-	-	-

¹⁾ Packs of 2

²⁾ With bit adapter and reversible bit for:
Multi-tooth size 25 and Phillips-head (Ph 2)

³⁾ Bit 2549.510 for HD lock insert, see page 164



Doors/Locks

Hinges



Hinges 130°/180°

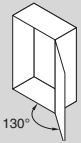
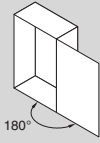
Supply includes:

- Assembly components



Also required:

- ¹⁾ Lock components for frame 8800.040, see page 468

Enclosure type	Door type	Material	Color	Packs of	 	
					Model No.	
TS 8, SE	Carbon steel door	Die-cast zinc	–	4 pc(s).	8800.020¹⁾	–
TS 8, SE	Carbon steel door	Die-cast zinc	RAL 7035	4 pc(s).	–	8800.190
			RAL 9005		–	8800.950
			Matt nickel-plated		–	8701.180
TS 8, SE	Doors with high dynamic loads, door fittings up to 900 N	Precision casting/ die-cast zinc	RAL 7035	4 pc(s).	–	8800.710
TS 8 bayed enclosure suites with comfort handle	Carbon steel door	Die-cast zinc	RAL 7035	4 pc(s).	–	7824.520
	Glazed door	Die-cast zinc	RAL 7035			7824.525²⁾
AE	Standard door	Die-cast zinc	–	2 pc(s).	–	2449.000
CM	Standard door	Die-cast zinc	RAL 9011/9006	3 pc(s).	–	5001.000

²⁾ max. 140°



Hinge pin remover

For safe and easy removal of hinge pins.

For housing	Model No.
AE/CM	2432.000



Cover hinge

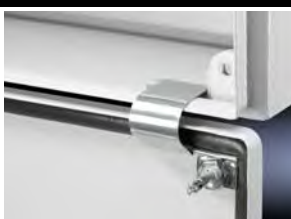
for KL

The cover hinge is screwed to the enclosure protection channel and the lip of the cover.

Supply includes:

- Assembly components

Material	Packs of	Model No.
Die-cast zinc	6 pc(s).	1592.000
Stainless steel 1.4404 (AISI 316L)	2 pc(s).	1592.010



Cover retainer

for KL

The cover retainer installs easily without drilling, and allows the covers to be opened, even when the terminal box below is bayed.

Packs of	Model No.
3 pair(s)	1591.000

Utility tray, hinged

Hinged utility tray on which to rest programming and monitoring equipment. Latches into place when folded out and can be folded away when not in use.

Material:

- Carbon steel, 2.0 mm

Surface finish:

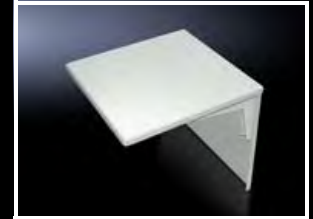
- Dipcoat-primed, powder-coated, textured paint

Color:

- RAL 7035

Supply includes:

- Assembly components



Height inches (mm)	Width inches (mm)	Depth inches (mm)	Weight lb (kg)	Packs of	Model No.	Model No. US
12 (305)	12 (305)	2 (51)	7.5 (3.4)	1 pc(s).	8018.859	FDS1212C
18 (457)	18 (457)	2 (51)	14 (6.4)	1 pc(s).	8018.860	FDS1818C

Doors/Locks

Door, Internal

Support Strips

For securing

- Cable ducts
- Cable conduit holders
- Contact hazard protection covers
- Door fittings
- Cable clampings and attachments

4.5 mm diameter hole on a 25 mm DIN hole pattern

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components



Accessories:

- Sheet metal screws and self-tapping screws M5, see page 539



For TS, SE, CM, TP



For AE

For door width inches (mm)	Length inches (mm)	Packs of	Model No.
16 (400)	11 (290)	20 pc(s).	4594.000
20 (500)	15 (390)	20 pc(s).	4309.000
24 (600)	19 (490)	20 pc(s).	4596.000
32 (800)	27 (690)	20 pc(s).	4598.000
35 (900)	31 (790)	20 pc(s).	4579.000
39 (1000)	35 (890)	20 pc(s).	4599.000

For AE enclosures	Packs of	Model No.
1018.600 ²⁾ , 1019.500 ²⁾ 1050.500 ¹⁾ , 1057.500 1100.500, 1110.500 1114.500 ¹⁾ , 1130.500 1213.500 ¹⁾ , 1350.500 ¹⁾	20 pc(s).	2325.000
1012.500 ²⁾ , 1039.500 1054.500, 1058.500 1060.500, 1076.500 1090.500, 1260.500 ¹⁾ 1339.500, 1360.500 1376.500	20 pc(s).	2326.000
1014.500 ²⁾ , 1073.500 1077.500	20 pc(s).	2327.000
1016.500 ²⁾ , 1017.500 ²⁾ 1055.500, 1180.500 1280.500 ¹⁾	20 pc(s).	2328.000

¹⁾ For these AE types, cut the support strips at the knockouts

²⁾ Only in conjunction with perforated mounting strip (see page 495)



Spacers

Utilized to mount components at an offset from mounting panel surface. Features a self-tapping thread for 4.5 mm diameter. The following components can be attached to the spacer using 5.5 x 13 mm sheet metal screws:

- Top hat/support profile rails
- Contact hazard protection covers
- Main switch trim panels
- Cable clamp rails
- etc.

Material:

- Hexagonal steel (SW8)

Surface finish:

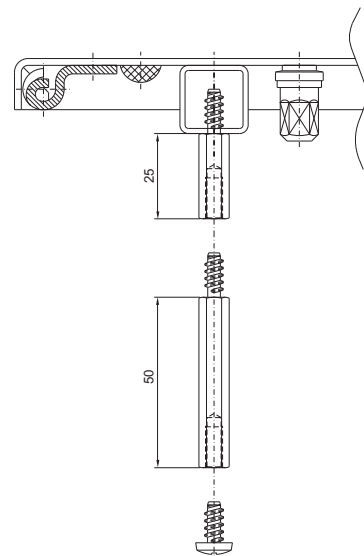
- Zinc-plated



Accessories:

- Sheet metal screws 5.5 x 13 mm, see page 539

Length inches (mm)	Packs of	Model No.
1 (25)	12 pc(s).	2311.225
2 (50)	12 pc(s).	2311.250



Door, Internal

Perforated Mounting Strip**for AE stainless steel**

For vertical attachment to the threaded bolts on the door, for securing

- Mounting strips for AE, see page 494
- Door stay 2519.000, see page 497

3.7 mm diameter hole on a 25 mm DIN hole pattern

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Packs of 20, incl. nuts and serrated washers

Suitable for AE	Length inches (mm)	Model No.
1012.600, 1014.600	27 (698)	2310.076
1016.600, 1018.600	37 (938)	2310.100
1017.600, 1019.500, 1019.600	45 (1138)	2310.120

**Accessories:**

- Sheet metal screws, see page 539

**Utility Tray**

Provides a working surface for programming devices and other equipment. Mounts to the tubular door frame of TS, SE, CM, PC or on any sufficiently large surface.

Quickly folds out during servicing while providing maximum surface space. Saves space by folding down in between tubular door frames when not in use.

Load capacity:

- max. 30 kg.

Material:

- Carbon steel

Color:

- RAL 7035

Support area		For door width inches (mm)	Model No.
Width inches (mm)	Depth inches (mm)		
16 (413)	16 (400)	24 (600)	4638.600
24 (613)	16 (400)	32 (800)	4638.800

**Wiring Plan Lectern**

Provides a working surface for wiring plans during maintenance work. The wiring plan lectern can be bayed depending on the door width. Mounted on the tubular door frame.

Material:

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

Color:

- Similar to RAL 7035

Supply includes:

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

For enclosures	Packs of	Model No.
TS, SE, CM, TP, PC	1 pc(s).	4120.000
For door width inches (mm)	Required/possible number of wiring plan lecterns	
	min.	max.
16 (400)	1	1
20 (500)	1	1
24 (600)	2	2
32 (800)	2	3
39 (1000)	3	3

**CD/DVD Box**

to be affixed to any flat, clean surface using double-sided adhesive tape.

Capacity:

- Max. 10 CDs/DVDs

Material:

- Polyamide

Color:

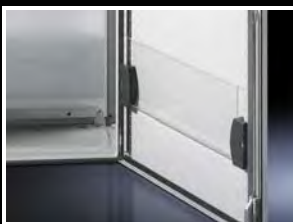
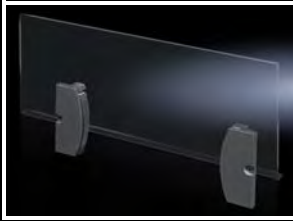
- RAL 7033

Packs of 1 pc(s).	Model No. 2446.000
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Doors/Locks

Door, Internal



Plastic Wiring Plan Pockets

for AE

See table for installation options

- B = Screw-fastened to the perforated door strip on both sides
- E = Screw-fastened on one side, glued on the other or completely glued

Supply includes:

- 2 holders with double-sided adhesive tape
- Acrylic glazed pane
- Assembly components

Note:

- The acrylic glazed pane may be shortened to any required size for shorter doors

Model No.	2514.500	2514.600	2514.800
Usable width inches (mm)	13 (340)	16 (415)	24 (615)
Usable depth inches (mm)	1 (18)	1 (18)	1 (18)
Height of acrylic glazed pane inches (mm)	7 (167)	7 (167)	7 (167)

Installation options

For model no. AE	Width inches (mm)			
1050.500	20 (500)	B	–	–
1054.500	24 (600)	E	E	–
1055.500	32 (800)	E	E	E
1057.500	20 (500)	B	–	–
1058.500	24 (600)	E	E	–
1060.500	24 (600)	E	E	–
1073.500	30 (760)	E	E	–
1076.500	24 (600)	E	E	–
1077.500	30 (760)	E	E	–
1090.500	24 (600)	E	E	–
1100.500	39 (1000)	B	–	–
1110.500	39 (1000)	B	–	–
1114.500	39 (1000)	B ¹⁾	–	–
1130.500	39 (1000)	B	–	–
1180.500	32 (800)	E	E	E
1213.500	39 (1000)	B ¹⁾	–	–
1260.500	24 (600)	E	B	–
1280.500	32 (800)	E	E	B
1350.500	20 (500)	B	–	–
1360.500	24 (600)	E	E	–
1376.500	24 (600)	E	E	–

¹⁾ Prepared for mounting on the left door; the acrylic glazed pane can be shortened for mounting on the right door



Plastic Wiring Plan Pockets

Affixed to an inside door surface.

Material:

- Polystyrene with self-adhesive fastening strips

Color:

- Similar to RAL 7035

For format	Clearance openings inches (mm)			Model No.
	H	W	D	
DIN A3 landscape	11 (286)	17 (438)	2 (45)	2513.000
DIN A4 portrait	10 (254)	9 (228)	1 (17)	2514.000
DIN A5 landscape	7 (174)	9 (228)	1 (17)	2515.000



Wiring Plan Pockets with Transparent Pouch

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

For format	Model No.
DIN A4	2510.000
DIN A3	2512.000

Door, Internal

Wiring Plan Pockets, Carbon Steel

for TS, SE, CM, TP pedestal, PC

Fastened to tubular door frames at any height.

Color:

– RAL 7035

Supply includes:

– Assembly screws

D = 3.5" (90 mm)

Suitable for door width inches (mm)	Clearance openings inches (mm)		Model No.
	H	W	
16 (400)	8 (210)	10 (255)	4114.000
20 (500)	8 (210)	14 (355)	4115.000
24 (600)	8 (210)	18 (455)	4116.000
32 (800)	8 (210)	26 (655)	4118.000
35 (900)	8 (210)	30 (755)	4123.000
39 (1000)	8 (210)	34 (855)	4124.000

D = 1.4" (35 mm)

Suitable for door width inches (mm)	Clearance openings inches (mm)		Model No.
	H	W	
20 (500)	8 (210)	14 (355)	4115.500
24 (600)	8 (210)	18 (455)	4116.500
32 (800)	8 (210)	26 (655)	4118.500



Door Stay

To secure door in open position.

Supply includes:

– Assembly components

For	Mounting	Packs of	Model No.
TS, SE, PC	Bottom	5 pc(s).	4583.000
CM, TP	Top	2 pc(s).	2519.200
AE (except 1032.500 and 1035.500) and all AE stainless steel housings ¹⁾	Top	5 pc(s).	2519.000

¹⁾ With AE stainless steel, only in conjunction with perforated mounting strips, see page 495



Door Stay for Escape Routes for TS, SE, PC

In case of emergency, a conventional door stay may block a potential escape route. This stay is automatically released when pressure is applied, the door can be opened in both directions. When used in conjunction with 180° hinges, this door stay ensures a clear escape route in the event of emergency.

Supply includes:

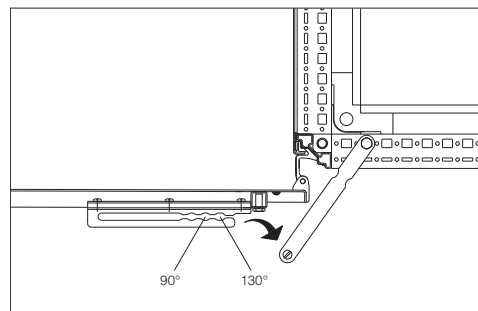
– Assembly components

Packs of	Model No.
1 pc(s).	4583.500

+ Accessories:

– 180° hinge, see page 492

180° hinge



Doors/Locks

Door, Internal



Ride-Up Roller

for TS, SE, PC

Assists in closing enclosure door when weighted down with installed equipment such as a cooling unit. Attaches to tubular door frame.

Packs of	Model No.
10 pc(s).	4538.000



Transport and Mounting Handle

for TS, SE doors

Utilized for safe installation and removal of the door and during transport. The hinge pin remover for 130° hinges is integrated, the remover for 180° hinges is supplied loose.

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

for AE, CM

Supply includes:

- Assembly components



Accessories:

- Condensate discharge, see page 448
- Pressure relief plug, see page 448
- Wall mounting bracket 2503.010 and 2508.010, see page 504

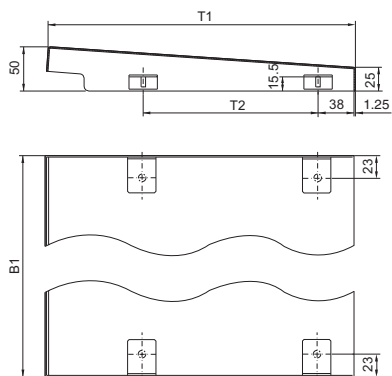
for AE, stainless steel version

Material:

- Stainless steel 1.4301 (AISI 304)

Surface finish:

- Brushed, grain 240

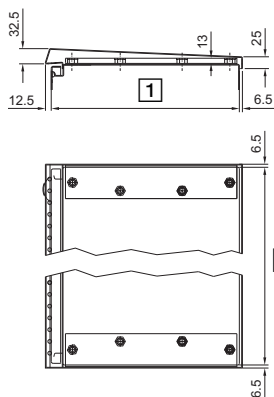


B1 = Housing width +11 mm

T1 = Housing depth +25 mm

T2 = Housing depth -90 mm, housing width 600 mm and over: Housing depth -115 mm

for CM, carbon steel version



1 Housing depth

2 Housing width

Note:

- For outdoor siting, we generally recommend a rain canopy above the housing or above the gap between the door and the housing, in order to protect against water and UV radiation
- Testing of IP protection categories for water protection (2nd code number to IEC 60 529) cannot be equated with the requirements for an enclosure sited outdoors or in similar conditions
- Additional measures should be implemented depending on the environmental conditions (see "Technical Information")

For		Model No.
Enclosure width inches (mm)	Enclosure depth inches (mm)	
8 (200)	6 (155)	2470.000
12 (300)	8 (210)	2361.000
15 (380)	6 (155)	2471.000
15 (380)	8 (210)	2472.000
20 (500)	8 (210)	2362.000
24 (600)	8 (210)	2473.000
30 (760)	12 (300)	2474.000
32 (800)	12 (300)	2475.000
39 (1000)	12 (300)	2363.000



Width inches (mm)	Depth inches (mm)	Model No.
24 (600)	16 (400)	5001.310
32 (800)	16 (400)	5001.330
39 (1000)	16 (400)	5001.350
47 (1200)	16 (400)	5001.360

Material:

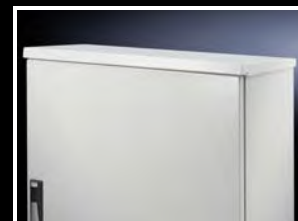
- Carbon steel

Surface finish:

- Powder-coated, textured paint

Color:

- RAL 7035



Roof/Wall Mounting

Roof



Dust guard trim

for AE, CM, EB, KL

To prevent dust from accumulating on the top edge of the door and between the housing and the door/lid. Cut dust guard trim to length according to the width of the housing. Drill holes in the housing and fit the trim using adhesive strip and screws.

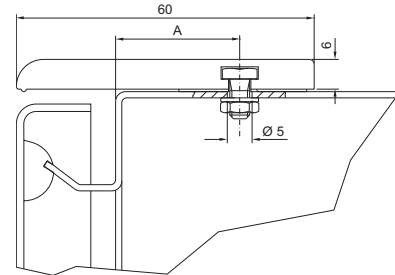
Material:

- Plastic, resistant to UV

Color:

- Similar to RAL 7024

For housing	Length inches (mm)	A inches (mm)	Model No.
AE	47 (1200)	1 (25)	2426.500
CM		0.8 (20)	
KL, EB		0.8 (20.5)	



Dust guard trim

for TS, SE

To prevent dust from accumulating on the top edge of the door and between the door and the upper horizontal enclosure profile. The dust guard provides space for text or company logos.

Color:

- RAL 7035

Supply includes:

- Clear plastic strip for text label (height 29.5 mm)

Length inches (mm)	Model No.
24 (600)	2424.100
32 (800)	2425.100
39 (1000)	2427.100
47 (1200)	2426.100

Note:

- Also suitable for use in conjunction with top baying cover 466

Roof/Wall Mounting

Roof

Top-mounted module

for TS

As a cable routing compartment for cable infeed from above or for power distribution using busbar systems across bayed enclosures. The standard TS roof plate is used to blank off the top of the enclosure. If a top-mounted module is used, the enclosure is raised by 200 mm.

The top baying cover cannot be fitted. Top and bottom expansion accessories, see diagram and explanation below.

Material:

– Carbon steel, 1.5 mm

Surface finish:

– Spray-finished, textured paint

Color:

– RAL 7035

Protection category IP to IEC 60 529:

– IP 55

Protection category NEMA:

– NEMA 12

For enclosures		Model No.
Width (W) inches (mm)	Depth inches (mm)	
24 (600)	24 (600)	
32 (800)	24 (600)	
39 (1000)	24 (600)	
47 (1200)	24 (600)	8801.765

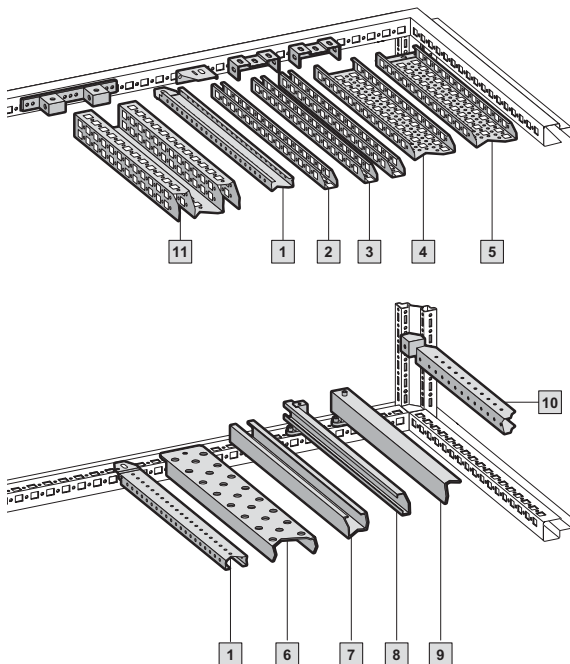
Supply includes:

- 1 frame module
- 2 trim panels (front and rear)
- 8 retainers with automatic potential equalization
- 4 threaded rods with transportation eyebolts



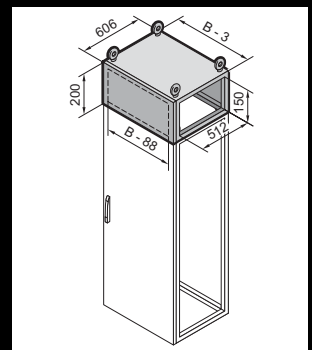
Also required:

- Side panel for top-mounted module, 8801.775, see page 501



Accessories:

Name	Page
1 TS punched rail 18 x 38 mm	525
2 PS punched rail 23 x 23 mm with angle brackets	526
3 PS punched rail 23 x 23 mm with PS support brackets	526
4 PS punched rail 23 x 73 mm with PS support brackets	527
5 PS system chassis 23 x 73 mm	528
6 Support rail	529
7 System support rails	529
8 C rail 30/15 with bracket or spacer	528
9 Cable clamp rail	574
10 TS punched rail 25 x 38 mm	524
11 TS punched section without mounting flange 45 x 88 mm	523



Side panel

for top-mounted module

To blank off the side of a top-mounted module or bayed suite.

Material:

– Carbon steel, 1.5 mm

Surface finish:

– Spray-finished, textured paint

Color:

– RAL 7035

Supply includes:

– Assembly components

Packs of	Model No.
2 pc(s).	8801.775



Roof/Wall Mounting

Roof



Roof mounting screw

To screw-fasten the roof plate in place of the transportation eyebolts. With contact washers for equipotential bonding.

Thread: M12

Material:

- Steel

Surface finish:

- Zinc-plated

Supply includes:

- 20 pan head screws M 12 x 20, hex socket
- 20 serrated lock washers A 12.5

Packs of	Model No.
20 pc(s).	4198.000



Spacers

for TS roof plate

To raise the TS roof for ventilation purposes, in three different heights.
Not suitable for crane transportation!

Thread: M12

Material:

- Hexagon section steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Height inches (mm)	Packs of	Model No.
0.4 (10)	4 pc(s).	2422.000
0.8 (20)	4 pc(s).	2423.000
2 (50)	4 pc(s).	7967.000



Transportation eyebolts

for TS, SE

For crane transportation of enclosures, where not already included in the supply.

Thread: M12

Supply includes:

- 4 transportation eyebolts M12
- 4 serrated lock washers A 12.5

Material	Packs of	Model No.
Zinc-plated carbon steel C 15E	4 pc(s).	4568.000
Stainless steel 1.4301 (AISI 304)	4 pc(s).	4568.500



Transportation eyebolts

for CM

For crane transportation of enclosures, reinforcement plate to place underneath.
Mounting via the two holes in the top of the CM.

Thread: M12

Supply includes:

- Transportation eyebolts
- Reinforcement plates

Packs of	Model No.
2 pc(s).	2509.500



Transportation eyebolts

for AE

For crane transportation of enclosures, reinforcement plate to place underneath.

Thread: M12

Supply includes:

- Transportation eyebolts
- Reinforcement plates

Packs of	Model No.
4 pc(s).	2509.000

Roof/Wall Mounting

Wall mounting

Slotted wallmount bracket

for KL, EB, JB, AE, WM

This bracket has similar functionality to a standard NEMA flange plate, in that the slot on the lower bracket can be used for installation or removal.

Supply includes:

- 1 set = 4 pc(s).

Material	Packs of	Model No.	Model No.
Zinc-plated	1 set(s)	8018.790	WMSMB
Stainless steel 316L	1 set(s)	8018.791	WMSMB6



Wall mounting bracket

To mount KL, JB, EB, BG and IT housings based on EL.

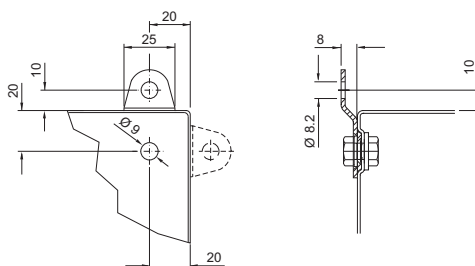
Supply includes:

- Assembly components for mounting on housing

Note:

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

Material	Wall clearance inches (mm)	Packs of	Model No.
Brass, nickel-plated	0.3 (8)	4 pc(s).	1580.000
Carbon steel, zinc-plated	0.3 (8)	4 pc(s).	1590.000
Stainless steel 1.4301 (AISI 304)	0.3 (8)	4 pc(s).	1594.000



Wall mounting bracket

for AE, WM

For external mounting on the housing. Simply insert the expandable dowel into the housing hole from the outside, and screw-fasten the wall bracket from the outside.

Material:

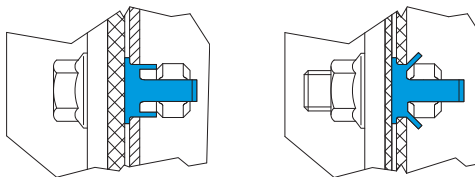
- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Wall bracket pre-fitted with seal and expandable dowel



Wall clearance inches (mm)	Packs of	Model No.
0.6 (15)	4 pc(s).	2508.100



Roof/Wall Mounting

Wall mounting



Wall mounting bracket

To mount KL, EB, BG, AE, CM, IT housings based on EL and AE, TP top pieces.

Supply includes:

- Assembly components for mounting on housing

Note:

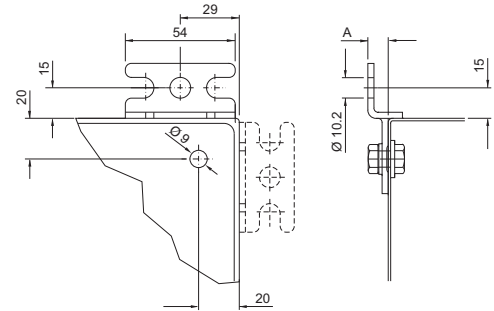
- Item 2503.010 is only suitable for use up to a depth of 600 mm

Material	Wall clearance (A) inches (mm)	Packs of	Model No.
Carbon steel, zinc-plated	1.6 (40)	4 pc(s).	2503.010
	0.4 (10)	4 pc(s).	2508.010
Stainless steel 1.4301 (AISI 304)	0.4 (10)	4 pc(s).	2433.000
Stainless steel 1.4404 (AISI 316L)	0.4 (10)	4 pc(s).	2433.500



Possible alternative:

- Hygienic Design wall spacer bracket, see page 164



Wall mounting bracket

for KS

To enable wall-mounting of the enclosure from the outside of the enclosure only.

Material:

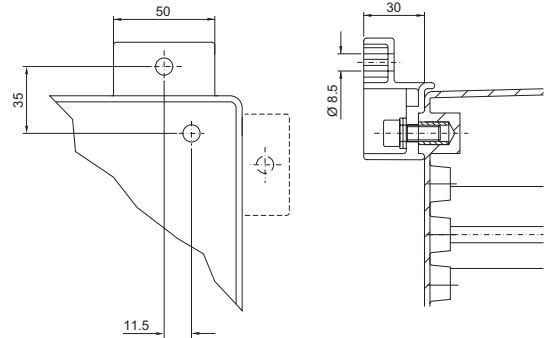
- Fiberglass-reinforced polyamide¹⁾

Supply includes:

- Assembly components for mounting on housing

Color	Packs of	Model No.
Similar to RAL 7035	4 pc(s).	1483.010
Similar to RAL 9011	4 pc(s).	9266.000¹⁾

¹⁾ With graphite additive for Ex applications



Roof/Wall Mounting

Wall mounting

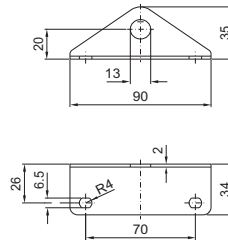
Wall mounting angle

For compact enclosures (additional holes must be drilled in the housing).

Supply includes:

- Assembly components for mounting on housing

Material	Color	Packs of	Model No.
Carbon steel	RAL 7035	4 pc(s).	2505.510
Stainless steel 1.4301 (AISI 304)	–	4 pc(s).	2583.010



Wall bracket

For wall mounting of TS and SE enclosures on the roof, suitable for enclosures with minimal depth and heavy components on the door or built-in pivoting frame.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Packs of	Model No.
4 pc(s).	4595.000



Possible alternative:

- On TS 8 inside the enclosure (without mounting plate) buying attachment 8800.470, see page 464



Pole clamp

for KL, EB, AE, KS

For reliable, convenient fastening to round or square poles.

For pole diameter/size:

- Ø from 40 to 190 mm
- □ from 50 to 150 mm

Material:

- Profile rails, clamping section: Carbon steel
- Clamping strap: Stainless steel 1.4301 (AISI 304)

Surface finish:

- Profile rail, clamping section: Zinc-plated

Supply includes:

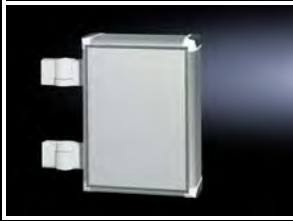
- 2 profile rails, 600 mm long
- 4 clamping sections
- 2 clamping straps
- 4 clamping brackets
- 4 screws and M8 captive nuts for mounting on the enclosure

Packs of	Model No.
1 set(s)	2584.000



Roof/Wall Mounting

Wall mounting



Housing connectors

Adjustable

Between command panels, terminal boxes, compact enclosures and horizontal or vertical surfaces. Pre-assemble the two halves of the connector, slide into one another and fasten with locking screw and/or adjust the pivot bracket.

Pivot range:

- $\pm 105^\circ$ adjustable in 7.5° stepped increments

Material:

- Die-cast zinc

Surface finish:

- Powder-coated

Color:

- RAL 7035

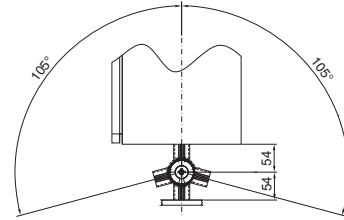
Supply includes:

- Assembly components for both sides

Packs of	Model No.
1 set(s)	6016.200

Note:

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



Frame connector, adjustable

for Comfort Panel

Between command panels and keyboard housing and horizontal or vertical surfaces.

Pivot range:

- Adjustable in 8° stepped increments, see drawing

Material:

- Die-cast zinc

Surface finish:

- Powder-coated

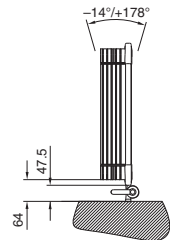
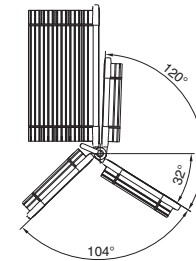
Color:

- RAL 7024

Supply includes:

- Assembly components and clamping levers for both sides

Packs of	Model No.
1 set(s)	6005.500



Mounting Plates

for KL and KL-HD

For component installation outside of the housing.
Assembly screws in the housing accessories.

Material:

- Carbon steel, 2 mm

Surface finish:

- Zinc-plated



Accessories:

- Self-tapping screws 2487.000, see page 539

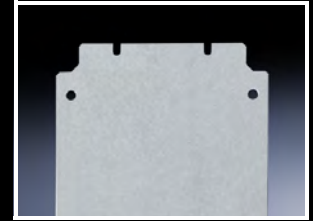


Possible alternative:

- Support rails, see page 530

Technical details:

Available on the Internet



For dimension, inches (mm)	For Model no. for KL and KL-HD	Model No.
6 x 6 (150 x 150)	1500.510, 1514.510, 1521.010, 1527.010, 1670.600, 1671.600	1560.700
8 x 6 (200 x 150)	1528.510, 1529.510	1575.700
12 x 6 (300 x 150)	1501.510, 1515.510, 1522.010, 1530.510	1561.700
16 x 6 (400 x 150)	1589.510	1576.700
8 x 8 (200 x 200)	1502.510, 1516.510, 1523.010, 1528.010, 1672.600	1562.700
12 x 8 (300 x 200)	1503.510, 1517.510, 1524.010, 1529.010, 1531.510, 1674.600	1563.700
16 x 8 (400 x 200)	1504.510, 1518.510, 1525.010, 1532.510, 1675.600	1564.700
20 x 8 (500 x 200)	1505.510, 1533.510	1565.700
24 x 8 (600 x 200)	1506.510, 1519.510, 1534.510	1566.700
32 x 8 (800 x 200)	1527.510, 1542.510	1574.700
12 x 12 (300 x 300)	1507.510, 1526.010, 1535.510	1567.700
16 x 12 (400 x 300)	1508.510, 1530.010, 1536.510, 1676.600	1568.700
20 x 12 (500 x 300)	1509.510, 1537.510	1569.700
24 x 12 (600 x 300)	1510.510, 1538.510	1570.700
16 x 16 (400 x 400)	1511.510, 1539.510	1571.700
24 x 16 (600 x 400)	1512.510, 1540.510	1572.700
32 x 16 (800 x 400)	1513.510, 1541.510	1573.700

Mounting Plate

for TS, 400 mm wide

Depth-adjustable in 25 mm stages.

Material:

- Carbon steel, 3 mm

Surface finish:

- Zinc-plated

Supply includes:

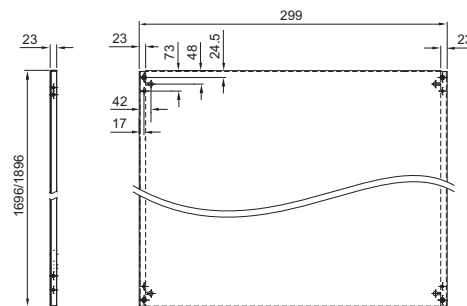
- Assembly components



Accessories:

- TS punched rail 18 x 38 mm, as mounting plate slide rail, see page 525
- TS width divider, for installation in wider enclosures, see page 438

For enclosure height inches (mm)	Model No.
71 (1800)	8614.180
79 (2000)	8614.200



Mounting Plate Infill

for TS

For a continuous mounting surface in bayed suites where the mounting plate is set forward.

Material:

- Carbon steel, 2 mm

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For enclosure height inches (mm)	Model No.
71 (1800)	4590.700
79 (2000)	4591.700
87 (2200)	4592.700



Interior Fittings

Mounting Plates

Mounting Plate Attachment

For additional clamping and to reduce potential vibration in the mounting plate. Select according to mounting position, installation type and enclosure.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

**For TS, SE**

Installation options:

- Side, at half height in conjunction with mounting plate infill
- In the penultimate position
- Set forward (supplied state)

Advantage:

No impairment to the mounting surface, but mounting is only possible from the enclosure rear

Packs of	Model No.
10 pc(s).	8800.630

**Accessories:**

- Mounting plate infill, see page 507

**For TS, SE**

Installation options:

- Side
- Rear, flush with enclosure frame

Advantage:

No impairment to the mounting surface, but mounting is only possible from the enclosure rear

Packs of	Model No.
10 pc(s).	8800.610

**For TS, SE**

Installation options:

- Side
- Rear, flush with enclosure frame
- Set forward on a 25 mm hole pattern

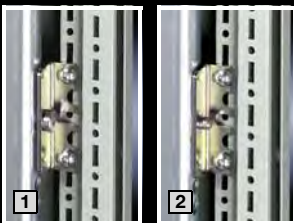
Advantage:

No impairment to the mounting surface, can be optionally used as a fastening or screw-connection

Packs of	Model No.
10 pc(s).	8800.090

**Also required:**

- System chassis 17 x 73 mm for the inner mounting level, see page 522 (with Fig. 3)



1 Mounting plate secured in rearmost installation position using screw

2 Mounting plate screw-fastened in rearmost installation position from the rear-side

3 Mounting plate secured using a screw or screw-fastened in forward position (not shown)

For TS, SE

Installation options:

- Side
- Rear, flush with enclosure frame

Slide over the plate at the side and secure with screws. Additionally, the mounting plate may be drilled and screw-fastened at the rear C-edge.

Packs of	Model No.
10 pc(s).	8800.050

Mounting Plate Attachment

For additional clamping and to reduce potential vibration in the mounting plate. Select according to mounting position, installation type and enclosure.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For TS, SE

Installation options:

- All-round
- Set forward on a 25 mm hole pattern

Slide in between the bar and plate from below or above or from the side, and secure with screws.

Packs of	Model No.
10 pc(s).	4593.000



Also required:

- Support strip (for inner level with TS), see page 525 or
- System chassis (for inner level with TS), see page 522 or
- Punched rails and punched sections, see page 526/527

For TS, SE

Installation options:

- Top and bottom to mounting plate
- Rear, flush with enclosure frame

Screw in the ring bracket behind the plate and secure with screws.

Packs of	Model No.
10 pc(s).	4576.000

Installation Kit

for mounting plates TS, SE, back-to-back

The minimal distance between the two mounting plates ensures maximum installation depth for assemblies on both sides.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Note:

Build depth front and rear, with central installation = (enclosure depth - 48 mm): 2

Example:

8806.521 = depth 600 mm

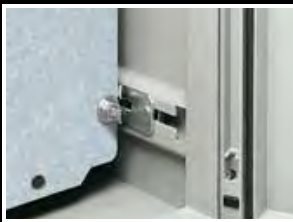
Build depth = 2 x 276 mm

Packs of	Model No.
1 set(s)	8800.280



Interior Fittings

Mounting Plates



Slide Rails

for TS mounting plate

For inserting at the sides.

- Mounting plate secured to the slide rails using captive nuts and screws.
- Slide rails mounted directly on the enclosure frame, depth-adjustable in 25 mm stages.

Technical specifications:

- Possible mounting depth T6 -25 mm, available on the Internet

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For enclosure width inches (mm)	Packs of	Model No.
24 (600)	2 pc(s).	8802.260
32 (800)	2 pc(s).	8802.280
47 (1200)	2 pc(s).	8802.220

Mounting Plate Depth Adjustment

for KS

Infinitely adjustable.

Other equipment can also be installed on a rail system in this way, rather than the mounting plate.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

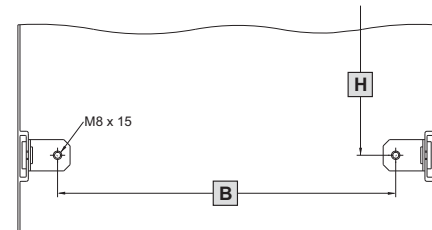
Supply includes:

- Assembly components

- H** Housing height:
– 150 mm

- B** Housing width:
– 76 mm (1481.000)
– 104 mm (1491.000)

For KS enclosures	Packs of	Model No.
1423.500, 1432.500, 1434.500, 1444.500, 1446.500, 1448.500, 1449.500, 1466.500, 1467.500	4 pc(s).	1481.000
1400.500, 1453.500, 1454.500, 1468.500, 1469.500, 1479.500, 1480.500	4 pc(s).	1491.000



Mounting Plate Attachment

for CM, TP one-piece console, TP pedestal for highly dynamic loads

Used if the mounting plate needs to be directly connected to a wall/support structure, e.g. when transporting enclosures (crane systems, etc.). Tested according to DIN EN 60 721 immunity test level 3 M4, with 150 kg weight evenly distributed on mounting plate. Simply fit in the existing holes in the prefitted mounting plate for:

Wall mounting from the inside

Direct using a bracket and wall/support-mounted housing.

Wall mounting from the outside

Screws for wall mounting brackets (see page 503) can easily be screwed into the plate nuts from the outside

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
1 set(s)	5001.075



Cross-Braces for Mounting Plates

for TS, SE

Additional horizontal cross braces to dampen vibrations and/or for retrospective stabilization of wide mounting plates. The braces can also be used as an additional aid to secure heavy structural elements.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- 2 sections
- 4 clamps
- 4 grub (set) screws M10 x 16 mm

For enclosure width inches (mm)	Model No.
47 (1200)	4333.120
63 (1600)	4333.160
71 (1800)	4333.180



Transport Handles for Mounting Plates

for TS, SE

Can be used at any given position in the side C-fold. Thus

- Suitable for use at various heights
- optimized force transmission
- easy to use

Packs of	Model No.
2 pc(s).	2415.500



Interior Fittings

Mounting Plates



Partial Mounting Plates

for TS, SE

For

- universal interior fittings also in combination with system chassis and mounting strips, faulty assemblies can be replaced quickly and easily
- additional mounting levels

Partial mounting plates are fastened directly onto the vertical enclosure profiles via the inner mounting level using the assembly components supplied loose. In this installation position (in both the width and the depth) they form one level with TS system chassis 17 x 73 mm and TS mounting strips for the inner mounting level.

Material:

- Carbon steel, 2.5 mm

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

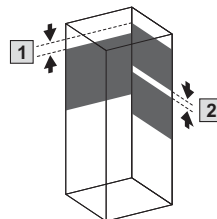


Accessories:

- TS system chassis 17 x 73 mm for the outer mounting level, see page 522
- TS support strips, see page 525
- Hinge attachment, see page 513
- Self-tapping screws, 2487.000, see page 539

For installation in									Dimensions inches (mm)	Packs of	Model No.
Enclosure width inches (mm)					Enclosure depth, side inches (mm)						
16 (400)	24 (600)	32 (800)	39 (1000)	47 (1200)	16 (400)	20 (500)	24 (600)	32 (800)			
■	■				■		■		20 x 12 (500 x 300)	1 pc(s).	8614.640
	■					■	■		20 x 16 (500 x 400)	1 pc(s).	8614.650
	■						■		20 x 20 (500 x 500)	1 pc(s).	8614.660
	■	■					■	■	20 x 28 (500 x 700)	1 pc(s).	8614.680
	■						■		20 x 31 (500 x 775)	1 pc(s).	8614.675¹⁾
■		■			■			■	28 x 12 (700 x 300)	1 pc(s).	8614.840
		■				■		■	28 x 16 (700 x 400)	1 pc(s).	8614.850
		■						■	28 x 28 (700 x 700)	1 pc(s).	8614.880
■			■		■				35 x 12 (900 x 300)	1 pc(s).	8614.040
			■			■			35 x 16 (900 x 400)	1 pc(s).	8614.050
	■		■				■		35 x 20 (900 x 500)	1 pc(s).	8614.060
■				■	■				43 x 12 (1100 x 300)	1 pc(s).	8614.240
				■		■			43 x 16 (1100 x 400)	1 pc(s).	8614.250
	■			■			■		43 x 20 (1100 x 500)	1 pc(s).	8614.260

¹⁾ Also suitable for installing in PC enclosures based on TS behind the lower front door

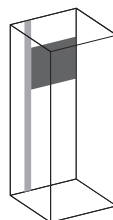


When **installing across corners** due to collision of assembly components

- 1** at least 75 mm (adjustable in 25 mm hole pattern)

Maximum utilization of space

- 2** 1 mm (adjustable in 25 mm hole pattern)



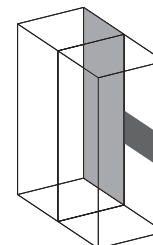
Partial installation

Partial utilization of the enclosure depth of width is also possible, in this example by using a PS punched section without mounting flange 23 x 73 mm, see page 527



Forward installation position

Achieved quickly and easily using 4 TS system chassis 17 x 73 mm for the outer mounting level, see page 522



Flush all-round

With bayed enclosures, the partial mounting plate is flush with the standard mounting plate in the rear-most installation position, which facilitates full-length population

Interior Fittings

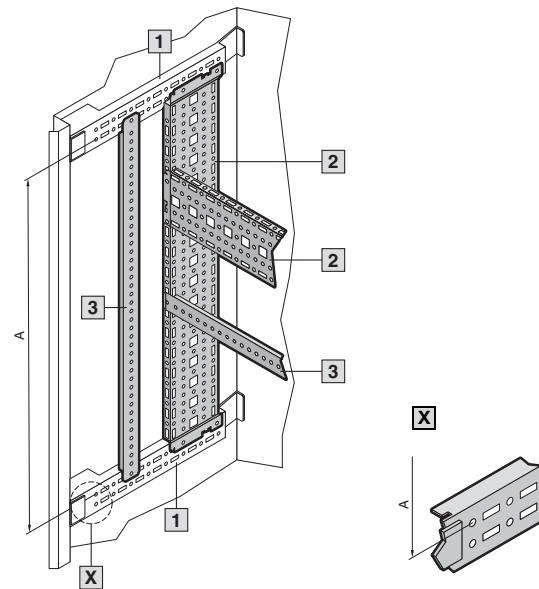
Rail systems

AE Configuration Examples with TS System Rails

1 Rails for interior fitting (preparation for configuration)					
For housing depth, inches (mm)	Packs of	8 (210)	10 (250)	12 (300)	14 (350)
Model No.	4 pc(s).	2383.210	2383.250	2383.300	2383.350
					Page
					521

Interior fitting in the height and width								
2 TS system chassis 17 x 73 mm	AE from housing height/width inches (mm)	A ¹⁾ inches (mm)	Packs of	Model No.				
	15 (380)	9 (225)	4 pc(s).	8612.130	8612.130	8612.130	8612.130	522
		13 (325)	4 pc(s).	8612.140	8612.140	8612.140	8612.140	
	20 (500)	15 (375)	4 pc(s).	8612.040	8612.040	8612.040	8612.040	
	24 (600)	17 (425)	4 pc(s).	8612.150	8612.150	8612.150	8612.150	
		19 (475)	4 pc(s).	8612.050	8612.050	8612.050	8612.050	
	30 (760)	21 (525)	4 pc(s).	8612.160	8612.160	8612.160	8612.160	
		23 (575)	4 pc(s).	8612.060	8612.060	8612.060	8612.060	
	39 (1000)	29 (725)	4 pc(s).	8612.180	8612.180	8612.180	–	
		31 (775)	4 pc(s).	8612.080	8612.080	8612.080	–	
		34 (875)	4 pc(s).	8612.090	8612.090	8612.090	–	
	47 (1200)	36 (925)	4 pc(s).	–	–	8612.100	–	
		38 (975)	4 pc(s).	–	–	8612.000	–	
	55 (1400)	44 (1125)	4 pc(s).	–	–	8612.120	–	
		46 (1175)	4 pc(s).	–	–	8612.020	–	
3 TS support strip	16 (400)	13 (325)	20 pc(s).	4694.000	4694.000	4694.000	4694.000	525
	20 (500)	17 (425)	20 pc(s).	4695.000	4695.000	4695.000	4695.000	
	24 (600)	21 (525)	20 pc(s).	4696.000	4696.000	4696.000	4696.000	
	32 (800)	29 (725)	20 pc(s).	4697.000	4697.000	4697.000	4697.000	

¹⁾ A = Rail mounting distance



CM Configuration Examples with TS System Rails

1 Rails for interior fitting (preparation for configuration)							
For housing height/width, inches (mm)	Packs of	24 (600)	32 (800)	39 (1000)	47 (1200)	55 (1400)	Page
Model No.	4 pc(s).	5001.050	5001.051	5001.052	5001.053	5001.054	521

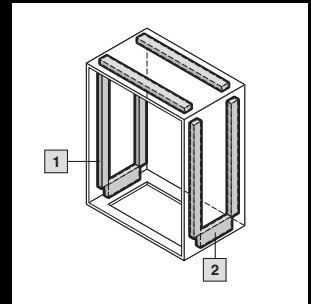
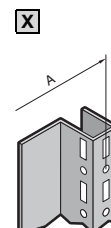
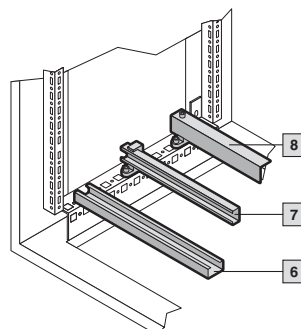
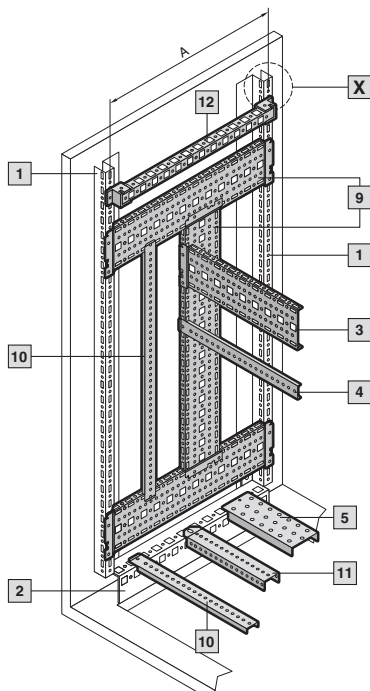
2 Base configuration rails (preparation for configuration)							
For housing depth, inches (mm)	Packs of	–	16 (400)	–	–	–	
Model No.	2 pc(s).	–	5001.370	–	–	–	524

Configuration widthways							
	Packs of	Model No.					
For housing width, inches (mm)		24 (600)	32 (800)	39 (1000)	47 (1200)	55 (1400)	
A ¹⁾ inches (mm)		23 (575)	31 (775)	38 (975)	46 (1175)	–	
3 TS system chassis 17 x 73 mm	4 pc(s).	8612.060	8612.080	8612.000	8612.020	–	522
4 TS support strips	20 pc(s).	8800.130	4579.000	–	–	–	525
5 Support rail	4 pc(s).	4396.000	4398.000	–	–	–	529
	4 pc(s).	4396.500	4398.500	–	–	–	529
6 System support rails	2 pc(s).	4361.000	4362.000	4347.000	4363.000	–	529
7 C rails 30/15	6 pc(s).	4944.000	4945.000	4946.000	4947.000	–	528
8 Cable clamping rail	2 pc(s).	4191.000	4192.000	4336.000	4196.000	–	574

Configuration in the height (individual configuration with e.g.)	
TS system chassis 17 x 73 mm	see page 522
TS support strips	see page 525

Configuration in the depth								
	For housing depth inches (mm)	A ¹⁾ inches (mm)	Packs of	Model No.				
9 TS system chassis 17 x 73 mm	12 (300)	9 (225)	4 pc(s).	8612.130	8612.130	8612.130	8612.130	8612.130
	16 (400)	13 (325)	4 pc(s).	8612.140	8612.140	8612.140	8612.140	8612.140
10 TS support strips	16 (400)	13 (325)	20 pc(s).	4694.000	4694.000	4694.000	4694.000	4694.000
11 TS punched rail 18 x 38 mm	16 (400)	13 (325)	4 pc(s).	8612.240	8612.240	8612.240	8612.240	8612.240
12 PS punched rail 23 x 23 mm	16 (400)	11 (275)	12 pc(s).	4169.000	4169.000	4169.000	4169.000	4169.000
with TS mounting bracket (2 pcs per rail)			24 pc(s).	8800.370	8800.370	8800.370	8800.370	8800.370
								534

¹⁾ A = Rail mounting distance



Interior Fittings

Rail systems

TP Pedestal/One-Piece Console Configuration Examples with TS System Rails

1 Rails for interior fitting (preparation for configuration)

For housing height, inches (mm)	Packs of	27 (675)	27 (675)	27 (675)	27 (675)	Page
For housing width, inches (mm)		24 (600)	32 (800)	47 (1200)	63 (1600)	
Model No.	4 pc(s).	5001.050	5001.050	5001.050	5001.050	521

Configuration in the height (individual configuration with e.g.)

TS support strips	see page 525
TS punched rail 18 x 38 mm	see page 525

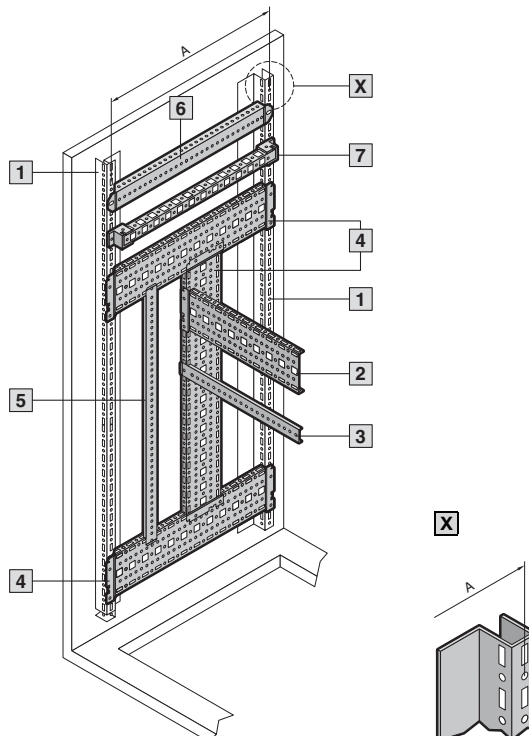
Configuration widthways

	Packs of	Model No.				
For housing width, inches (mm)		24 (600)	32 (800)	47 (1200)	63 (1600)	
A ¹⁾ inches (mm)		23 (575)	31 (775)	46 (1175)	62 (1575)	
2 TS system chassis 17 x 73 mm	4 pc(s).	8612.060	8612.080	8612.020	–	522
3 TS support strips	20 pc(s).	8800.130	4579.000	–	–	525

Configuration in the depth

	For housing depth inches (mm)	A ¹⁾ inches (mm)	Packs of	Model No.				
4 TS system chassis 17 x 73 mm	16 (400)	13 (325)	4 pc(s).	8612.140	8612.140	8612.140	8612.140	522
	20 (500)	17 (425)	4 pc(s).	8612.150	8612.150	8612.150	8612.150	
5 TS support strips	16 (400)	13 (325)	20 pc(s).	4694.000	4694.000	4694.000	4694.000	525
	20 (500)	17 (425)	20 pc(s).	4695.000	4695.000	4695.000	4695.000	
6 TS punched rail 18 x 38 mm	16 (400)	13 (325)	4 pc(s).	8612.240	8612.240	8612.240	8612.240	525
	20 (500)	17 (425)	4 pc(s).	8612.250	8612.250	8612.250	8612.250	
7 PS punched rail 23 x 23 mm	16 (400)	13 (325)	12 pc(s).	4169.000	4169.000	4169.000	4169.000	526
	20 (500)	17 (425)	12 pc(s).	4170.000	4170.000	4170.000	4170.000	
with TS mounting bracket (2 pcs per rail)			24 pc(s).	8800.370	8800.370	8800.370	8800.370	534

¹⁾ A = Rail mounting distance



TP Console Top-Section Configuration Examples with TS System Rails

1 Rails for interior fitting (preparation for configuration)							
For housing width, inches (mm)	Packs of	24 (600)	32 (800)	47 (1200)	63 (1600)	Page	
Model No.	4 pc(s).	5001.050	5001.051	5001.053	5001.054	521	

Configuration in the height							
	A ¹⁾ inches (mm)	Packs of	Model No.				
For housing width, inches (mm)			24 (600)	32 (800)	47 (1200)	63 (1600)	

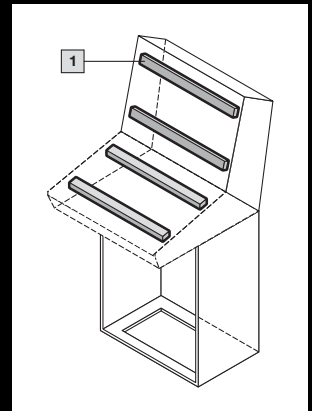
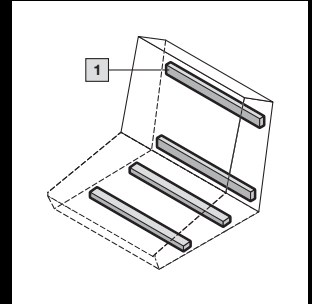
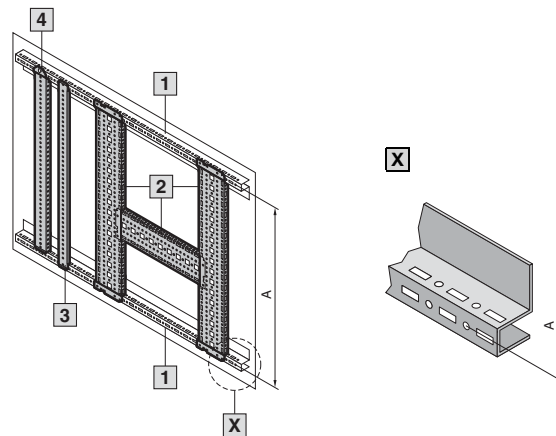
2 TS system chassis 17 x 73 mm							
For cover	15 (375)	4 pc(s).	8612.040	8612.040	8612.040	8612.040	522
For housing	17 (425)	4 pc(s).	8612.150	8612.150	8612.150	8612.150	522

3 TS support strips							
For cover	15 (375)	4 pc(s).	4309.000	4309.000	4309.000	4309.000	525
For housing	17 (425)	4 pc(s).	4695.000	4695.000	4695.000	4695.000	525

4 TS punched rail 18 x 38 mm							
For housing	17 (425)	4 pc(s).	8612.250	8612.250	8612.250	8612.250	525

¹⁾ A = Rail mounting distance

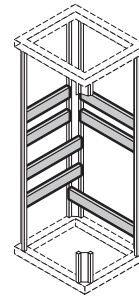
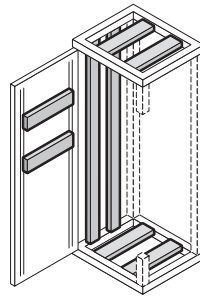
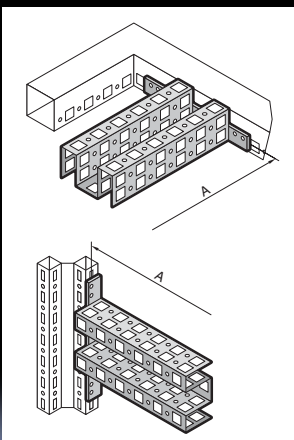
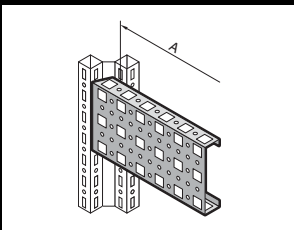
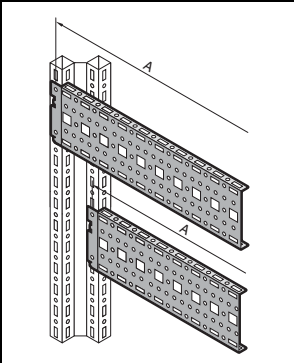
Console top-section/desk unit/console lid



Interior Fittings

Rail systems

TS/SE Configuration Examples with TS System Rails



	Installation in roof and base frames in the width/depth	Installation between vertical profiles in the width/depth	
		Inner level	Outer level

TS system chassis 17 x 73 mm								
For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
12 (300)	4 pc(s).	—	—	11 (275)	—	9 (225)	8612.130	522
16 (400)	4 pc(s).	—	—	15 (375)	8612.040	13 (325)	8612.140	
20 (500)	4 pc(s).	—	—	19 (475)	8612.050	17 (425)	8612.150	
24 (600)	4 pc(s).	—	—	23 (575)	8612.060	21 (525)	8612.160	
32 (800)	4 pc(s).	—	—	31 (775)	8612.080	29 (725)	8612.180	
39 (1000)	4 pc(s).	—	—	38 (975)	8612.000	36 (925)	8612.100	
47 (1200)	4 pc(s).	—	—	46 (1175)	8612.020	44 (1125)	8612.120	

¹⁾ A = Rail mounting distance


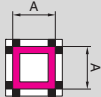
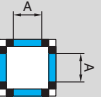
TS system chassis 23 x 73 mm								
For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
20 (500)	4 pc(s).	—	—	17 (425)	8612.550	—	—	523
24 (600)	4 pc(s).	—	—	21 (525)	8612.560	—	—	
32 (800)	4 pc(s).	—	—	29 (725)	8612.580	—	—	
39 (1000)	4 pc(s).	—	—	36 (925)	8612.500	—	—	
47 (1200)	4 pc(s).	—	—	44 (1125)	8612.520	—	—	

¹⁾ A = Rail mounting distance

TS punched section without mounting flange 45 x 88 mm								
For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
20 (500)	2 pc(s).	15 (375)	8612.650	15 (375)	8612.650	—	—	523
24 (600)	2 pc(s).	19 (475)	8612.660	19 (475)	8612.660	—	—	
32 (800)	2 pc(s).	27 (675)	8612.680	27 (675)	8612.680	—	—	

¹⁾ A = Rail mounting distance

TS/SE Configuration Examples with TS System Rails

	Installation in roof and base frames in the width/depth	Installation between vertical profiles in the width/depth	
		Inner level	Outer level
			

TS punched rail 25 x 38 mm (with snap-on nut M8)

For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
20 (500)	2 pc(s).	—	—	17 (435)	8612.750	—	—	524
24 (600)	2 pc(s).	—	—	21 (535)	8612.760	—	—	
32 (800)	2 pc(s).	—	—	29 (735)	8612.780	—	—	

¹⁾ A = Rail mounting distance

TS punched rail 18 x 38 mm

For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
16 (400)	4 pc(s).	13 (335)	8612.240	—	—	13 (325)	8612.240	525
20 (500)	4 pc(s).	17 (435)	8612.250	—	—	17 (425)	8612.250	
24 (600)	4 pc(s).	21 (535)	8612.260	—	—	21 (525)	8612.260	
32 (800)	4 pc(s).	29 (735)	8612.280	—	—	29 (725)	8612.280	

¹⁾ A = Rail mounting distance

Two TS punched rails 18 x 38 mm are included with the supply as an installation aid for enclosures with mounting plate. After installation of the mounting plate, the TS punched rail can be used as shown here.

TS support strips

For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
16 (400)	20 pc(s).	—	—	—	—	13 (325)	4694.000	525
20 (500)	20 pc(s).	—	—	—	—	17 (425)	4695.000	
24 (600)	20 pc(s).	—	—	—	—	21 (525)	4696.000	
32 (800)	20 pc(s).	—	—	—	—	29 (725)	4697.000	
16 (400)	20 pc(s).	—	—	15 (375)	4309.000	—	—	
20 (500)	20 pc(s).	—	—	19 (475)	4596.000	—	—	
24 (600)	20 pc(s).	—	—	23 (575)	8800.130	—	—	
—	20 pc(s).	—	—	27 (675)	4598.000	—	—	
32 (800)	20 pc(s).	—	—	31 (775)	4579.000	—	—	
—	20 pc(s).	—	—	34 (875)	4599.000	—	—	

¹⁾ A = Rail mounting distance

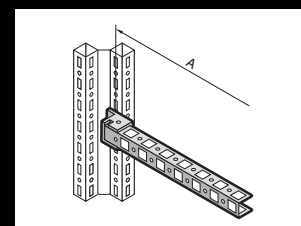
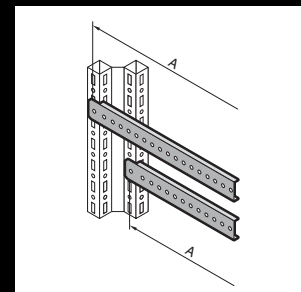
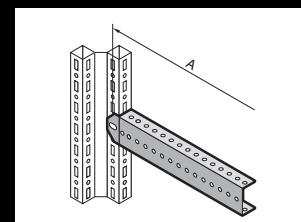
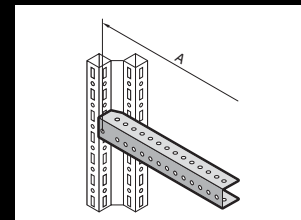
Alternatively, the TS support strip for the inner mounting level can also be used for mounting on the door.

PS punched rails 23 x 23 mm

(For installation options see TS/PS support bracket, angle bracket, mounting bracket)

For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
16 (400)	12 pc(s).	11 (275)	4169.000	11 (275)	4169.000	—	—	526
20 (500)	12 pc(s).	15 (375)	4170.000	15 (375)	4170.000	—	—	
24 (600)	12 pc(s).	19 (475)	4171.000	19 (475)	4171.000	—	—	
32 (800)	12 pc(s).	27 (675)	4172.000	27 (675)	4172.000	—	—	
39 (1000)	12 pc(s).	34 (875)	4173.000	34 (875)	4173.000	—	—	
47 (1200)	6 pc(s).	42 (1075)	4174.000	42 (1075)	4174.000	—	—	
55 (1400)	6 pc(s).	50 (1275)	4393.000	50 (1275)	4393.000	—	—	
63 (1600)	6 pc(s).	58 (1475)	4175.000	58 (1475)	4175.000	—	—	
71 (1800)	6 pc(s).	66 (1675)	4176.000	66 (1675)	4176.000	—	—	
79 (2000)	6 pc(s).	74 (1875)	4177.000	74 (1875)	4177.000	—	—	
87 (2200)	6 pc(s).	82 (2075)	4178.000	82 (2075)	4178.000	—	—	


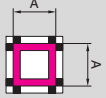
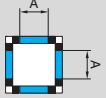
¹⁾ A = Rail mounting distance

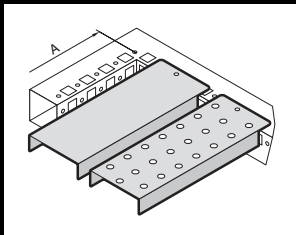
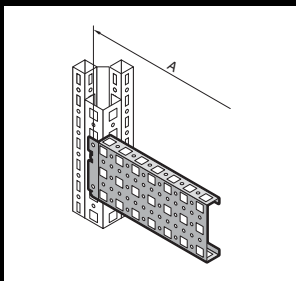
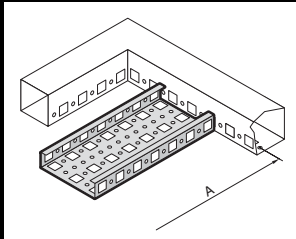
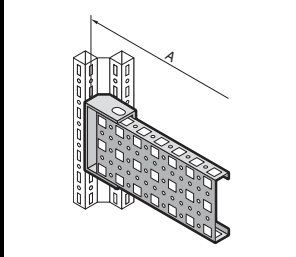


Interior Fittings

Rail systems

TS/SE Configuration Examples with TS System Rails

	Installation in roof and base frames in the width/depth	Installation between vertical profiles in the width/depth	
		Inner level	Outer level
			



PS punched section without mounting flange 23 x 73 mm (installation options with support bracket TS)								
For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
16 (400)	4 pc(s).	11 (275)	4374.000	11 (275)	4374.000	–	–	527
20 (500)	4 pc(s).	15 (375)	4375.000	15 (375)	4375.000	–	–	
24 (600)	4 pc(s).	19 (475)	4376.000	19 (475)	4376.000	–	–	
32 (800)	4 pc(s).	27 (675)	4377.000	27 (675)	4377.000	–	–	
39 (1000)	4 pc(s).	34 (875)	4382.000	34 (875)	4382.000	–	–	
47 (1200)	4 pc(s).	42 (1075)	4378.000	42 (1075)	4378.000	–	–	
71 (1800)	4 pc(s).	66 (1675)	4379.000	66 (1675)	4379.000	–	–	
79 (2000)	4 pc(s).	74 (1875)	4380.000	74 (1875)	4380.000	–	–	
87 (2200)	4 pc(s).	82 (2075)	4381.000	82 (2075)	4381.000	–	–	

¹⁾ A = Rail mounting distance

PS system chassis 23 x 73 mm (installation options with TS adapter rail for mounting on vertical TS enclosure section)								
For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
16 (400)	4 pc(s).	13 (335)	8800.640	–	8800.640	–	–	528
20 (500)	4 pc(s).	17 (435)	8800.650	–	8800.650	–	–	
24 (600)	4 pc(s).	21 (535)	4364.000	–	4364.000	–	–	
32 (800)	4 pc(s).	29 (735)	4365.000	–	4365.000	–	–	
39 (1000)	4 pc(s).	37 (935)	4373.000	–	4373.000	–	–	
47 (1200)	4 pc(s).	45 (1135)	4367.000	–	4367.000	–	–	

¹⁾ A = Rail mounting distance

Support rails, slotted								
For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
16 (400)	4 pc(s).	13 (335)	4394.000	—	—	—	—	529
20 (500)	2 pc(s).	17 (435)	4395.000	—	—	—	—	
24 (600)	2 pc(s).	21 (535)	4396.000	—	—	—	—	
32 (800)	2 pc(s).	29 (735)	4398.000	—	—	—	—	
Support rails, unslotted								
16 (400)	4 pc(s).	13 (335)	—	—	—	—	—	529
20 (500)	2 pc(s).	17 (435)	—	—	—	—	—	
24 (600)	2 pc(s).	21 (535)	4396.500	—	—	—	—	
32 (800)	2 pc(s).	29 (735)	4398.500	—	—	—	—	

¹⁾ A = Rail mounting distance

Alternatively, the slotted and unslotted support rails can also be mounted on the vertical TS enclosure section using the snap-on nut M8, the adapter rail or the TS punched rail 25 x 38 mm.

Rails for Interior Fitting

for AE

Mounted in the housing, no machining required.
Suitable for all-round mounting on the sides, base and roof areas.

Variable, with 2 rows of system punchings, provides additional mounting space for, e.g.:

- TS system chassis
- Enclosure lights
- Door-operated switch
- Door stay
- Cable conduit holder

Advantages:

- Only one screw needed to secure the rail in the housing
- Larger assembly space than with the previous rail, thanks to a separate adapter for the door-operated switch (in the scope of supply)
- Compatibility with TS 8 system accessories
- Housing protection category is retained (no machining required)
- Automatic equipotential bonding
- Can be retrofitted in spite of built-in mounting plate. Installation using flange (gland) plates possible

Material:

- Carbon steel

Surface finish:

- Zinc-plated

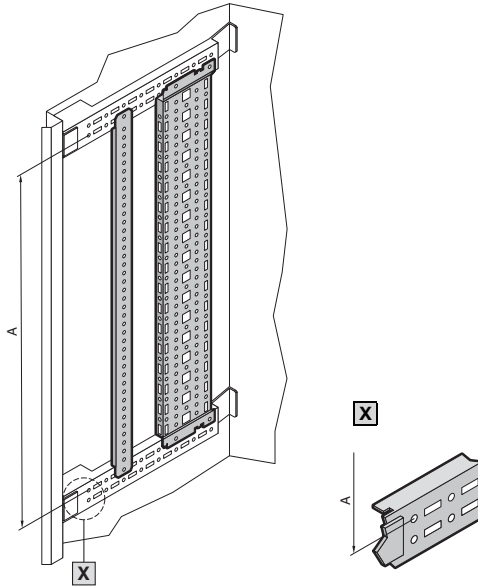
Note:

Other mounting options:

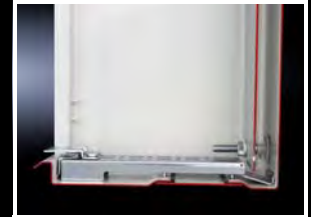
- Mounting plates, locatable, 8612.400, see page 531
- Mounting plates, screw-fastened, large, 8612.410, see page 531
- Mounting plates, screw-fastened, small, 4532.000, see page 531
- Mounting bracket, 4597.000, see page 531

For housing depth inches (mm)	Packs of	Model No.
8 (210)	4 pc(s).	2383.210
10 (250)	4 pc(s).	2383.250
12 (300)	4 pc(s).	2383.300
14 (350)	4 pc(s).	2383.350

Configuration examples:



A = rail spacing



Rails for Interior Fitting

for CM, TP

Mounted on the existing threaded bolts.
With TS system punchings on three sides.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Height inches (mm)		Width inches (mm)		Packs of	Model No.
CM	TP ²⁾	CM	TP ¹⁾		
–	27 (675)	24 (600)	24 (600)	4 pc(s).	5001.050
32 (800)	38 (960)	32 (800)	32 (800)	4 pc(s).	5001.051
39 (1000)	–	39 (1000)	39 (1000)	4 pc(s).	5001.052
47 (1200)	–	47 (1200)	47 (1200)	4 pc(s).	5001.053
55 (1400)	–	–	63 (1600)	4 pc(s).	5001.054

- ¹⁾ Only for TP console and desk unit (cover and rear panel/base), one-piece console in cover
²⁾ Only with TP pedestal, one-piece console

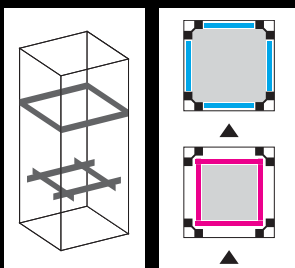
Configuration examples:

See page 515



Interior Fittings

Rail Systems



TS system chassis 17 x 73 mm

Variable, with 5 rows of holes for universal skeleton structures or partial assembly. Simply locate into the TS punchings and secure.

Installation options:

- On the vertical TS enclosure section
 - On the outer mounting level, all-round, at the same height
 - On the inner mounting level, all-round, height-offset
- In the tubular door frame for TS, SE and PC
- For SE, may additionally be mounted on the top horizontal section in the depth
- In CM and TP via rail for interior fitting
 - In the width, for inner mounting level
 - In the depth, for outer mounting level

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws



Also required:

- For installation in CM, TP:
Rail for interior fitting, see page 521



Accessories:

- Screws, see page 539
- Cable ties for quick mounting 2597.000, see page 576

For the outer mounting level

For Enclosure width/depth inches (mm)	Packs of	Model No.
12 (300)	4 pc(s).	8612.130
16 (400)	4 pc(s).	8612.140
20 (500)	4 pc(s).	8612.150
24 (600)	4 pc(s).	8612.160
32 (800)	4 pc(s).	8612.180
39 (1000)	4 pc(s).	8612.100
47 (1200)	4 pc(s).	8612.120

For the inner mounting level or for tubular door frames

For door width (for tubular door frames) inches (mm)	For enclosure width/depth (for inner mounting level) inches (mm)	Length inches (mm)	Packs of	Model No.
20 (500)	16 (400)	15 (390)	4 pc(s).	8612.040
24 (600)	20 (500)	19 (490)	4 pc(s).	8612.050
–	24 (600)	23 (590)	4 pc(s).	8612.060
32 (800)	–	27 (690)	4 pc(s).	8612.070
35 (900)	32 (800)	31 (790)	4 pc(s).	8612.080
39 (1000)	–	35 (890)	4 pc(s).	8612.090
–	39 (1000)	39 (990)	4 pc(s).	8612.000
–	47 (1200)	47 (1190)	4 pc(s).	8612.020

Configuration examples:

See from page 514

Attachment TS

for system chassis, 17 x 73 mm

Advantages:

- For attaching the TS system chassis where installed equipment, such as mounting plates, block access to the screw fastening
- May also be screw-fastened onto the system chassis or enclosure frame and used as a holder for contact hazard protection covers or main switch trim panels

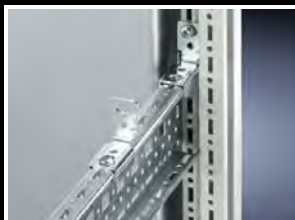
Packs of	Model No.
12 pc(s).	8612.010

Material:

- Carbon steel

Surface finish:

- Zinc-plated



TS system chassis 23 x 73 mm

The alternative to the TS 17 x 73 mm system chassis, see page 522, with punchings for captive nuts/speed nuts instead of slotted holes top and bottom. Simply locate and secure.

Installation options:

- On the vertical TS, SE enclosure section

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

For the inner mounting level

For Enclosure width/depth inches (mm)	Packs of	Model No.
20 (500)	4 pc(s).	8612.550
24 (600)	4 pc(s).	8612.560
32 (800)	4 pc(s).	8612.580
39 (1000)	4 pc(s).	8612.500
47 (1200)	4 pc(s).	8612.520

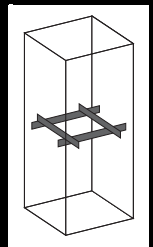
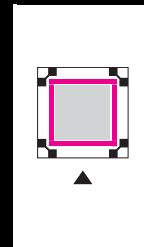


Accessories:

- Screws, see page 539
- Speed nuts, captive nuts, see page 538

Configuration examples:

See page 514



TS punched section without mounting flange 45 x 88 mm

Mounted directly on internal surfaces (e.g. roof) to support heavy assemblies. Mounted on the side or rear, the enclosure can then be screw-fastened securely to the machine. The double profile with 11 rows of holes provides many additional options for interior configuration.

Installation options:

- On the vertical and horizontal TS, SE enclosure section

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For the inner mounting level

For Enclosure width/depth inches (mm)	Packs of	Model No.
20 (500)	2 pc(s).	8612.650
24 (600)	2 pc(s).	8612.660
32 (800)	2 pc(s).	8612.680

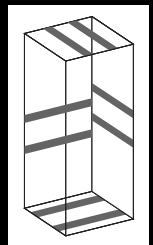
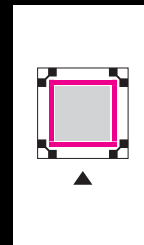


Accessories:

- Screws, see page 539
- Speed nuts, captive nuts, see page 538

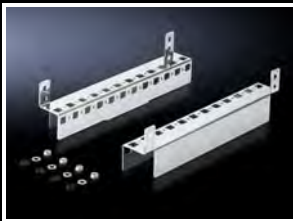
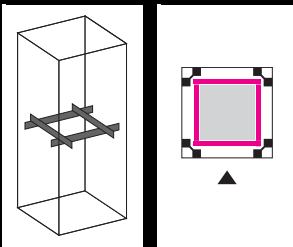
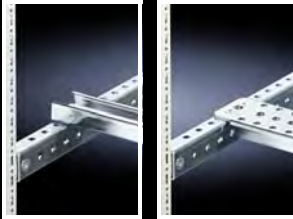
Configuration examples:

See page 514



Interior Fittings

Rail Systems



TS Punched Rail 25 x 38 mm

For heavy installed equipment, with mounting holes.

Installation options:

- On the vertical TS, SE enclosure section

With 9 mm round holes all round on a 25 mm hole pattern, for configuration of

- Support rails, see page 530
- System support rails, see page 529
- C rails 30/15, see page 528
- Cable clamping rails (angle profile), see page 574
- Own assemblies

Material:

- Carbon steel, 3.0 mm

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

For Enclosure width/depth inches (mm)	Packs of	Model No.
20 (500)	2 pc(s).	8612.750
24 (600)	2 pc(s).	8612.760
32 (800)	2 pc(s).	8612.780



Also required:

- Snap-on nut M8, 8800.808, see page 533

Note:

- In conjunction with the snap-on nut, particularly well-suited for dynamic connections

Configuration examples:

See page 514

Base Configuration Rail

for CM, TP

Mounted in the housing depth on the available threaded bolts, no machining required. TS system punchings on two sides. Provides additional mounting options.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For enclosure depth inches (mm)	Packs of	Model No.
16 (400)	2 pc(s).	5001.370
12 (300)	2 pc(s).	5001.371

TS Punched Rail 18 x 38 mm

Simply locate and secure with a screw. Location system makes installation and removal easy. Only needs to be secured on one side, but can be secured on both sides if necessary.

Installation options:

- On the vertical TS, SE enclosure section
 - On the outer mounting level
- On the horizontal TS, SE enclosure section
- On the base configuration rail for CM

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

Note:

- In enclosures with a mounting plate, two punched rails are already included in the scope of supply

For Enclosure width/depth inches (mm)	Packs of	Model No.
16 (400)	4 pc(s).	8612.240
20 (500)	4 pc(s).	8612.250
24 (600)	4 pc(s).	8612.260
32 (800)	4 pc(s).	8612.280

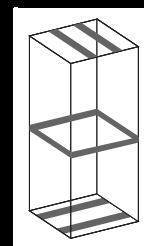
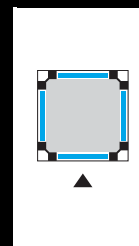


Accessories:

- Screws, see page 539
- Cable ties for quick assembly 2597.000, see page 576
- Cable clamps, see page 575

Configuration examples:

See from page 514



TS support strips

Installation options:

- On the vertical and horizontal TS, SE enclosure section
 - On the outer mounting level, all-round, at the same height
 - On the inner mounting level, all-round, height-offset
- On the TS, SE tubular door frame
- On the CM, TP perforated door strip

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

For the outer mounting level

For Enclosure width/depth inches (mm)	Length inches (mm)	Packs of	Model No.
16 (400)	13 (340)	20 pc(s).	4694.000
20 (500)	17 (440)	20 pc(s).	4695.000
24 (600)	21 (540)	20 pc(s).	4696.000
32 (800)	29 (740)	20 pc(s).	4697.000

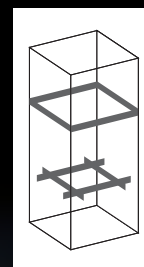
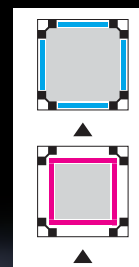


Accessories:

- Screws, see page 539
- Cable ties for quick assembly 2597.000, see page 576

Configuration examples:

See from page 514

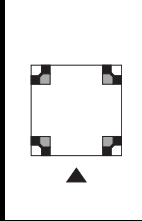


For the inner mounting level and for mounting on doors

For enclosure width/depth inches (mm)	For door width inches (mm)	Length inches (mm)	Packs of	Model No.
–	16 (400)	11 (290)	20 pc(s).	4594.000
16 (400)	20 (500)	15 (390)	20 pc(s).	4309.000
20 (500)	24 (600)	19 (490)	20 pc(s).	4596.000
24 (600)	–	23 (590)	20 pc(s).	8800.130
–	32 (800)	27 (690)	20 pc(s).	4598.000
32 (800)	35 (900)	31 (790)	20 pc(s).	4579.000
–	39 (1000)	35 (890)	20 pc(s).	4599.000

Interior Fittings

Rail Systems



TS Assembly Block

Installation in the vertical TS, SE enclosure sections to mount individual PS-compatible components.

Material:

- Die-cast zinc

Supply includes:

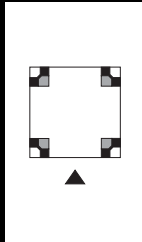
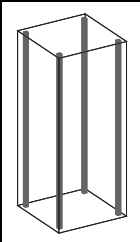
- Assembly screws

Packs of	Model No.
4 pc(s).	8800.310



Possible alternative:

- Snap-on nut, see page 533



Adapter Rail

for PS compatibility

Installation in the vertical TS, SE enclosure sections (over the full enclosure height or only in places). With SE, mounting is additionally possible on the horizontal section at the top, in the width (must be cut to the correct length individually, depending on the width of the enclosure), to create compatibility with:

- PS punched rail 23 x 23 mm
- PS punched section without mounting flange 23 x 73 mm
- PS system chassis 23 x 73 mm

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

For Enclosure height inches (mm)	Packs of	Model No.
71 (1800)	4 pc(s).	8800.380
79 (2000)	4 pc(s).	8800.300
87 (2200)	4 pc(s).	8800.320



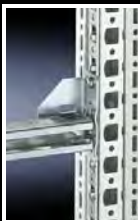
Accessories:

- Screws, see page 539



Possible alternative:

- Snap-on nut, see page 533



PS Punched Rails 23 x 23 mm

for TS, SE

Installation options:

- On the vertical enclosure section
 - Directly using TS support brackets
 - Via adapter rail for PS compatibility, in conjunction with angle brackets, mounting brackets or PS support brackets
- On the horizontal enclosure section
 - Directly via angle brackets, mounting brackets or PS support brackets

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Length inches (mm)	For HWD inches (mm)	Packs of	Model No.
12 (295)	16 (400)	12 pc(s).	4169.000
16 (395)	20 (500)	12 pc(s).	4170.000
19 (495)	24 (600)	12 pc(s).	4171.000
27 (695)	32 (800)	12 pc(s).	4172.000
35 (895)	39 (1000)	12 pc(s).	4173.000
43 (1095)	47 (1200)	6 pc(s).	4174.000
51 (1295)	55 (1400)	6 pc(s).	4393.000
59 (1495)	63 (1600)	6 pc(s).	4175.000
67 (1695)	71 (1800)	6 pc(s).	4176.000
75 (1895)	79 (2000)	6 pc(s).	4177.000
82 (2095)	87 (2200)	6 pc(s).	4178.000



Also required:

- U nuts, see page 538
- TS/PS mounting brackets, see page 534 or
- Angle brackets, TS/PS support brackets, see page 535



Accessories:

- Cable attachment, see page 576
- Screws, see page 539
- Cable ties for quick assembly 2597.000, see page 576

Configuration examples:

See from page 514

Punched Rail 23 x 23 mm

for Flex-Block

Tool-free installation on two levels using a plug-in system within the depth of the Flex-Block. To install cable clamping rails.

Installation options:

- In the width and depth

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- 12 punched rails
- Assembly components for mounting

Length inches (mm)	For Width/depth inches (mm)	Packs of	Model No.
10 (245)	16 (400)	12 pc(s).	4169.500
14 (345)	20 (500)	12 pc(s).	4170.500
18 (445)	24 (600)	12 pc(s).	4171.500
25 (645)	32 (800)	12 pc(s).	4172.500



Accessories:

- Cable clamping rail (4193.000, etc.), see page 574



PS Punched Section without Mounting Flange 23 x 73 mm

for TS, SE

Installation options:

- On the vertical enclosure section
 - Directly using TS support brackets
 - Using adapter rail for PS compatibility, combined with PS support brackets
- On the horizontal enclosure section
 - Directly using PS support brackets

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Length inches (mm)	For HWD inches (mm)	Packs of	Model No.
12 (295)	16 (400)	4 pc(s).	4374.000
16 (395)	20 (500)	4 pc(s).	4375.000
19 (495)	24 (600)	4 pc(s).	4376.000
27 (695)	32 (800)	4 pc(s).	4377.000
35 (895)	39 (1000)	4 pc(s).	4382.000
43 (1095)	47 (1200)	4 pc(s).	4378.000
67 (1695)	71 (1800)	4 pc(s).	4379.000
75 (1895)	79 (2000)	4 pc(s).	4380.000
82 (2095)	87 (2200)	4 pc(s).	4381.000



Also required:

- PS/TS support brackets, see page 535

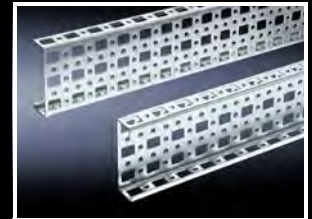


Accessories:

- Screws, see page 539
- Cable ties for quick assembly 2597.000, see page 576
- U nuts, see page 538

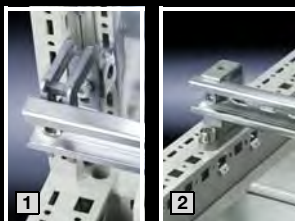
Configuration examples:

See page 514



Interior Fittings

Rail Systems



PS System Chassis 23 x 73 mm for TS, SE

Variable, with 5 rows of holes for universal skeleton structures or partial assembly. Simply locate into the system punchings and secure.

Installation options:

- On the vertical TS enclosure section
 - Using adapter rail for PS compatibility
- On the horizontal TS enclosure section
- In the case of SE, may additionally be fitted to the horizontal section at the bottom (width/depth) and top (width)

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

Installation in enclosure width/depth TS inches (mm)	Packs of	Model No.
16 (400)	4 pc(s).	8800.640
20 (500)	4 pc(s).	8800.650
24 (600)	4 pc(s).	4364.000
32 (800)	4 pc(s).	4365.000
39 (1000)	4 pc(s).	4373.000
47 (1200)	4 pc(s).	4367.000



Also required:

- Adapter rail for PS compatibility (for mounting on vertical TS, SE enclosure section), see page 526

Configuration examples:

See page 514

C rails 30/15 to EN 60 715 for TS, SE

Installation options:

- On the vertical TS, SE enclosure section
 - Using snap-on nut 8800.808 (Fig. 1)
 - Using adapter rail for PS compatibility
 - On the horizontal TS enclosure section (Fig. 2)
 - With SE, also on the horizontal section
 - In the width, at the bottom/top
 - In the depth, at the bottom (without mounting plate)
 - In the depth, at the top
- Using snap-on nuts 8800.808 (Fig. 1)
- On the base configuration rail for CM

Material:

- Carbon steel

Surface finish:

- Zinc-plated

For enclosure width/depth inches (mm)	Length inches (mm)	Packs of	Model No.
20 (500)	18 (455)	6 pc(s).	4943.000
24 (600)	22 (555)	6 pc(s).	4944.000
32 (800)	30 (755)	6 pc(s).	4945.000
39 (1000)	38 (955)	6 pc(s).	4946.000
45 (1200)	46 (1155)	6 pc(s).	4947.000



Accessories:

- Cable clamps, see page 575
- Bracket/spacer, see page 536
- Quick-assembly block, see page 536
- Snap-on nut M8, 8800.808, see page 533
- Adapter rail, see page 526



Possible alternative:

- Rail for EMC shielding bracket and strain relief, see page 551

C Rails

for TS, SE

For direct external mounting between the horizontal or vertical TS, SE enclosure sections. Because the attachment piece is designed for universal use, the C rails may optionally be attached to the inner or outer level of the TS 8 frame.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For enclosure width/depth inches (mm)	Length inches (mm)	Packs of	Model No.
24 (600)	20 (498)	4 pc(s).	7828.060
32 (800)	27 (698)	4 pc(s).	7828.080
39 (1000)	35 (898)	4 pc(s).	7828.100



Accessories:

- Cable clamps, see page 575



System Support Rails

For heavy installed equipment such as transformers. T-head screw and slot in the support rail accommodate a wide range of mounting dimensions.

Installation options:

- On the vertical TS, SE enclosure section
 - Using snap-on nut 8800.808 (Fig. 1)
 - Using adapter rail for PS compatibility
 - Offset in the height, via TS punched rail 25 x 38 mm (Fig. 2)
 - On the horizontal TS enclosure section
 - In the width
 - In the depth (without mounting plate)
 - With SE, also on the horizontal section
 - In the width (top/bottom)
 - In the depth, at the bottom (without mounting plate)
 - In the depth, at the top (without mounting plate)
- Using snap-on nuts 8800.808 (Fig. 1)
- On the base configuration rail for CM

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- 2 system support rails (45 x 25 mm)
- 4 T-head screws M12 x 60 mm
- Assembly components

For enclosure width inches (mm)	Packs of	Model No.
24 (600)	2 pc(s).	4361.000
32 (800)	2 pc(s).	4362.000
39 (1000)	2 pc(s).	4347.000
47 (1200)	2 pc(s).	4363.000



Accessories:

- Width divider, e.g. for installation of 2 system support rails (for 600 mm width) in 1200 mm wide enclosures, see page 438
- Snap-on nut M8, 8800.808, see page 533
- Adapter rail, see page 526
- TS punched rail 25 x 38 mm, see page 524



Support Rails

for TS, SE, CM

For heavy installed equipment. Particularly suitable for the installation of post isolators.

Installation options:

- On the vertical TS, SE enclosure section
 - Using snap-on nut 8800.808 (Fig. 1)
 - Using adapter rail for PS compatibility
 - Offset in the height, via TS punched rail 25 x 38 mm (Fig. 2)
 - On the horizontal TS enclosure section
 - In the width
 - In the depth
 - With SE, also on the horizontal section
 - In the width
 - In the depth, at the top
- Via snap-on nut 8800.808
- On the base configuration rail for CM

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For enclosure width/depth inches (mm)	Packs of	Model No.	Model No.
		slotted	unslotted
16 (400)	4 pc(s).	4394.000	–
20 (500)	4 pc(s).	4395.000	–
24 (600)	4 pc(s).	4396.000	4396.500
32 (800)	4 pc(s).	4398.000	4398.500

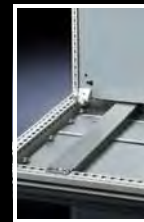


Accessories:

- Snap-on nut M8, 8800.808, see page 533
- Adapter rail, see page 526
- TS punched rail 25 x 38 mm, see page 524

Configuration examples:

See from page 514



Interior Fittings

Rail Systems



Support Rail 65 x 42 mm for TS, SE

Advantages:

- For heavy assemblies up to 5000 N per support rail

Permissible static load:

- 10000 N per enclosure

Material:

- Steel

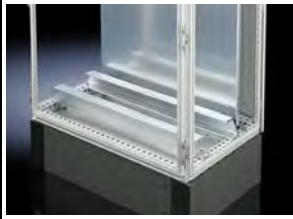
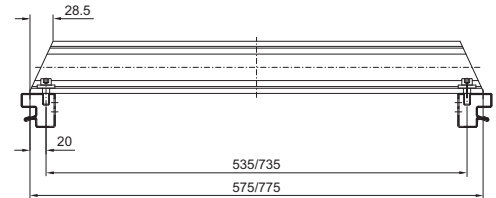
Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For enclosure width inches (mm)	Packs of	Model No.
24 (600)	2 pc(s).	8612.960
32 (800)	2 pc(s).	8612.980



Support rails TS 35/15 to EN 60 715 for TS, SE

- Mounted on the TS vertical profile using
- Snap-on nut M8, 8800.808, see page 533
 - Assembly block, see page 526 or
 - Adapter rail, see page 526

For enclosure width/depth inches (mm)	Support rails length inches (mm)	Packs of	Model No.
20 (500)	18 (455)	6 pc(s).	4933.000
24 (600)	22 (555)	6 pc(s).	4934.000
32 (800)	30 (755)	6 pc(s).	4935.000
45 (1200)	46 (1155)	6 pc(s).	4937.000



Support rails TS 35/7.5 and TS 35/15

to EN 60 715 for KL, KL-HD, AE
Length matched to the housing width.

For housing width inches (mm)	Support rails length inches (mm)	Version	Packs of	Model No.
6 (150)	5 (137)	TS 35/7.5	10 pc(s).	2314.000
8 (200)	7 (187)		10 pc(s).	2315.000
12 (300)	11 (287)		10 pc(s).	2316.000
16 (400)	15 (387)		10 pc(s).	2317.000
20 (500)	19 (487)	TS 35/15	10 pc(s).	2318.000
24 (600)	23 (587)		10 pc(s).	2319.000

Support Rails

to EN 60 715
Standard length 2 m

Version	Length	Packs of	Model No.
TS 35/15	79" (2 m)	6 pc(s).	2313.150
TS 35/7.5	79" (2 m)	6 pc(s).	2313.750



Mounting Clip

for support rails

For fast and secure attachment of

- Cable ducts
- Mounting plates
- Profile rails

On support rail TS 35/7.5 and TS 35/15 to EN 60 715.

Simply fit the mounting clip to the part to be installed and then clip onto the support rail.

Packs of	Model No.
30 pc(s).	2309.000

Mounting plates

Locatable

- on
- Vertical TS, SE enclosure section
- TS system chassis 17 x 73 mm

Material:

- Carbon steel

Surface finish:

- Zinc-plated

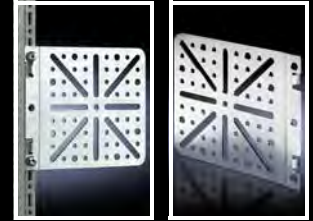
Supply includes:

- Assembly screws

Packs of	Model No.
4 pc(s).	8612.400

Technical details:

Available on the Internet



Mounting plates

Screw-fastened, large

On all enclosures and mounting parts with system punchings on a 25 mm hole pattern.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

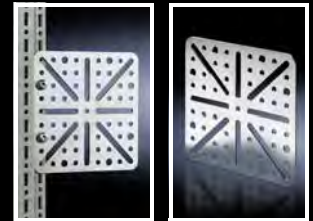
Supply includes:

- Assembly screws

Packs of	Model No.
4 pc(s).	8612.410

Technical details:

Available on the Internet



Mounting plates

Screw-fastened, small

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

Packs of	Model No.
4 pc(s).	4532.000

Technical details:

Available on the Internet



Mounting bracket

Can be screw-fastened to all enclosures and mounting parts with system punchings on a 25 mm hole pattern.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

Packs of	Model No.
4 pc(s).	4597.000



Accessories:

- Screws, see page 539
- Cable ties for quick assembly 2597.000, see page 576

Technical details:

Available on the Internet



Interior Fittings

Rail Systems



Mounting bracket

for interior fitting

For installation of system chassis and support strips in Comfort Panel, horizontal/vertical, from an installation depth of 74 mm

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
4 pc(s).	6205.100

Technical details:

Available on the Internet

		Comfort Panel	Page
		Front panel width = 19" (482.6 mm)	
System Chassis	Horizontal	8612.150	522
	Vertical		
Support strips	Horizontal	4695.000	525
	Vertical		

Snap-On Nut TS

Metric thread for vertical TS, SE enclosure section. To mount, insert and clip into slotted holes. The snap-on nut is then secured in place. When the screw is tightened, it is securely braced against the profile, and equipotential bonding is automatically created.

Installation options:

- On the vertical TS, SE enclosure section and on the horizontal SE enclosure section (top, in the width)
 - With M6 or M8 metric thread
 - An alternative to sheet metal screws
 - Particularly well-suited for dynamically-loaded connections

Material:

- Precision-cast stainless steel

Accessories for interior fitting

- 1 Support rails, see page 529
- 2 Cable clamping rails, see page 574
- 3 C rails 30/15, see page 528
- 4 System support rails, see page 529
- 5 TS punched rail 25 x 38 mm, see page 524

Thread	Packs of	Model No.
M6	20 pc(s).	8800.806
M8	20 pc(s).	8800.808



Also required:

- Multi-tooth screw M6 x 12 or M8 x 12, see page 539



Adapter Bracket TS

For mounting

- System lights
- Cable ducts

On the vertical TS enclosure section and on the horizontal SE enclosure section (top, in the width)

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

Packs of	Model No.
6 pc(s).	8800.360



Interior Fittings

Assembly Components



Mounting Bracket TS

Offers variable mounting options for 23 x 23 mm punched rail, e.g. to support external surfaces or create an additional internal level.

Material:

- Die-cast zinc

Supply includes:

- 24 sheet metal screws 5.5 x 13 mm.

Packs of	Model No.
24 pc(s).	8800.370



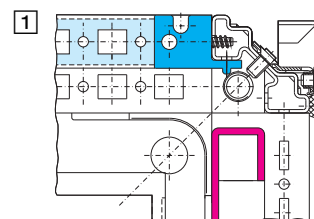
Accessories:

- U nuts (recommended: M6), see page 538.

Installation options:

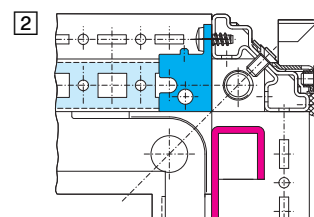
- On the vertical TS, SE enclosure section
 - flush with the outer edge of the enclosure or
 - flush with the enclosure clearance width

- 1 Support for the external surfaces with two mounting options:
- Without mounting plate (photo)
 - With mounting plate (drawing)

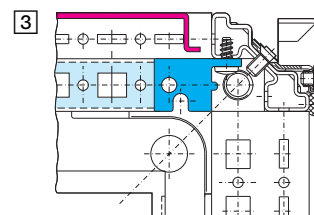


Two expansion options for the inner mounting level:

- 2 When no divider panel is mounted



- 3 When a divider panel is mounted, with or without mounting plate in forward position



Mounting Bracket PS

For variable attachment of 23 x 23 mm punched rails.

Installation options:

- Optionally flush with
 - outer enclosure edge or
 - enclosure clearance width
- On the vertical TS, SE enclosure section using
 - Adapter rail for PS compatibility, see page 526
- On the horizontal TS enclosure section
- On the horizontal SE enclosure section, bottom
- On the horizontal SE enclosure section, top in the depth
- On enclosures and rails with rectangular hole profile 12.5 x 10.5 mm

Material:

- Die-cast zinc

Supply includes:

- 1 set =
 - 1 mounting bracket
 - 1 screw M6 x 12 mm,
 - 1 captive nut M6

Packs of	Model No.
24 set(s)	4182.000



Also required:

- U nuts (recommended: M6), see page 538
- Multi-tooth screws M6 x 12 mm, see page 539

Angle Bracket PS

For quick attachment of 23 x 23 mm punched rails.

Installation options:

- On the vertical TS, SE enclosure section using
 - Adapter rail for PS compatibility, see page 526
- On the horizontal TS enclosure section
- On the horizontal SE enclosure section, bottom
- On the horizontal SE enclosure section, top in the depth
- On enclosures and rails with rectangular hole profile 12.5 x 10.5 mm

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- 1 set =
 - 1 angle bracket, left
 - 1 angle bracket, right
 - 2 sheet metal screws 5.5 x 13 mm

Packs of	Model No.
12 set(s)	4181.000



Also required:

- U nuts (recommended: M6), see page 538
- Multi-tooth screws M6 x 12 mm, see page 539



Support Bracket TS

For attaching:

- Punched section without mounting flange
23 x 73 mm, or
- Punched rails 23 x 23 mm

Installation options:

- On the vertical TS, SE enclosure section
 - in 25 mm hole pattern
 - in 2 mm increments
- On the horizontal SE enclosure section, in the width, top

Material:

- Die-cast zinc

Supply includes:

- 1 set =
 - 1 support bracket
 - 1 stay
 - 3 sheet metal screws 5.5 x 13 mm

Packs of	Model No.
6 set(s)	8800.330



Also required:

- U nuts (recommended: M6), see page 538
- Multi-tooth screws M6 x 12 mm, see page 539



Support Bracket PS

For attaching:

- Punched section without mounting flange
23 x 73 mm, or
- Punched rails 23 x 23 mm

Installation options:

- On the vertical TS enclosure section using
 - Snap-on nut 8800.806, see page 533 or
 - Adapter rail for PS compatibility, see page 526
- On the horizontal TS enclosure section
- On the horizontal SE enclosure section, bottom
- On the horizontal SE enclosure section, top in the depth
- On enclosures and rails with rectangular hole profile 12.5 x 10.5 mm

Material:

- Die-cast zinc

Supply includes:

- 1 set =
 - 1 support bracket
 - 2 countersunk screws
 - 2 serrated washers

Packs of	Model No.
24 set(s)	4183.000



Also required:

- U nuts (recommended: M6), see page 538
- Multi-tooth screws M6 x 12 mm, see page 539
- Adapter rail for PS compatibility (for mounting on vertical enclosure section), see page 526



Interior Fittings

Assembly Components



Bracket/Spacer

For the attachment of C rails, support profiles or cable clamping rails (angle profile). On the sides, to accommodate square sections or tubes (Ø 20 mm). Fastening points with M8 thread.

Installation options:

- On the vertical TS, SE enclosure section using
 - Snap-on nut 8800.808, see page 533
 - or
 - Adapter rail for PS compatibility, see page 526
- On the horizontal TS enclosure section
- On the horizontal SE enclosure section, bottom
- On the horizontal SE enclosure section, top in the depth
- On enclosures and rails with rectangular hole profile 12.5 x 10.5 mm

Packs of	Model No.
6 set(s)	4199.000

Material:

- Die-cast zinc

Supply includes:

- 1 set =
 - 1 bracket / spacer
 - 2 screws M8 x 16 mm
 - 2 spring lock washers
 - 2 captive nuts M8
 - 2 serrated washers
 - 2 sheet metal screws



Accessories:

- Angle piece 4134.000, see page 536



Quick-Assembly Block

For a variety of configuration options.

Installation options:

- On the vertical TS, SE enclosure section using
 - Snap-on nut 8800.808, see page 533
 - or
 - Adapter rail for PS compatibility, see page 526
- On the horizontal TS enclosure section
- On the horizontal SE enclosure section, bottom
- On the horizontal SE enclosure section, top in the depth
- On enclosures and rails with rectangular hole profile 12.5 x 10.5 mm

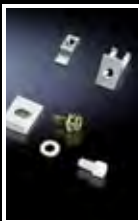
Packs of	Model No.
12 pc(s).	4133.000

Material:

- Die-cast zinc

Supply includes:

- 12 quick-assembly blocks
- 12 speed nuts M8
- 24 screws M8 x 12 mm
- 24 square nuts M8



Angle Piece

For the configuration of punched rails and mounting surfaces with a 45° slope.

Installation options:

- On the vertical TS, SE enclosure section using
 - Snap-on nut 8800.806, see page 533
 - or
 - Adapter rail for PS compatibility, see page 526
- On the horizontal TS enclosure section
- On the horizontal SE enclosure section, bottom
- On the horizontal SE enclosure section, top in the depth
- On enclosures and rails with rectangular hole profile 12.5 x 10.5 mm

Packs of	Model No.
12 set(s)	4134.000

Material:

- Angle pieces: Die-cast zinc
- Insulating pieces: Plastic

Supply includes:

- 1 set =
 - 1 angle piece
 - 1 insulating piece
 - 1 insulating screw
 - 2 assembly screws
 - 1 speed nut M6

Interior Fittings

Assembly Components

Universal Bracket

For the installation of

- Enclosure lights in
 - AE compact enclosures
- Door-operated switches in
 - AE compact enclosures
 - TP TopConsole system
- Cable conduit holders 2593.000 and 2591.000 in
 - AE compact enclosures
- Support rails for terminals in
 - Command panels and command panel housings

Assembly screws are concealed when the door is closed. Existing holes for mounting blocks or hinges may be used with AE.

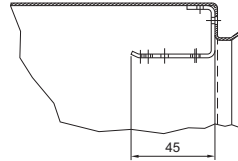
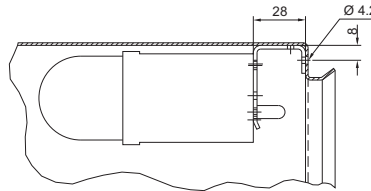
Material:

- Carbon steel, zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
6 pc(s).	2373.000



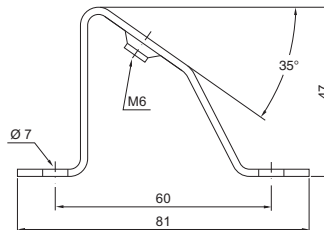
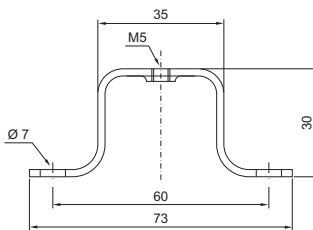
Rail Mounting Bracket

for individual rail mounting.

Material:

- Carbon steel, zinc-plated

Rail Mounting Bracket	Packs of	Model No.
Flat	20 pc(s).	2365.000
Inclined	20 pc(s).	2366.000



Mounting Block

for AE

As an accessory for additional interior fittings, e.g. to fit cable ties, PS punched rails, top hat rails and C rails (e.g. for a second mounting level).

Supply includes:

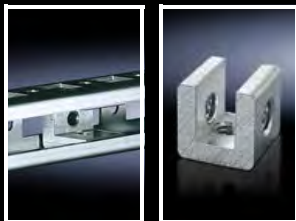
- Assembly components

Packs of	Model No.
20 pc(s).	2574.000



Interior Fittings

Assembly Components



U Nuts

for

- Punched rail 23 x 23 mm
- Punched section without mounting flange 23 x 73 mm
- Punched section without mounting flange 45 x 88 mm
- System chassis 23 x 73 mm

For mounting punched rails and punched sections without mounting flange on angle brackets, mounting brackets and support 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 539

Captive Nuts/Threaded Blocks

Installation options:

On enclosures and rails with rectangular hole profile 12.5 x 10.5 mm as for example on

- TS, SE enclosure section
 - Vertical, via adapter rail for PS compatibility
 - TS horizontal, direct
- SE horizontal bottom, direct
- SE horizontal top (in the depth only), direct
- Punched rails 23 x 23 mm
- Punched section without mounting flange 23 x 73 mm
- Punched section without mounting flange 45 x 88 mm
- System chassis 23 x 73 mm



Possible alternative:

- On the vertical TS enclosure section TS snap-on nut, see page 533



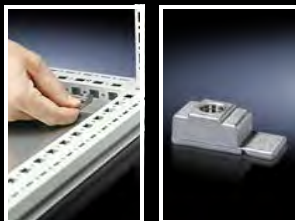
Captive nut

The compression spring designed as an insertion aid ensures reliable mechanical and electrical connection in the hole profile.

Thread	Packs of	Model No.
M5	50 pc(s).	4166.000
M6	50 pc(s).	4164.000
M8	50 pc(s).	4165.000

Threaded blocks

With snap-off insertion aid, made from die-cast zinc.



Thread	Packs of	Model No.
M6	50 pc(s).	4162.000
M8	50 pc(s).	4163.000

Captive nut

The nuts are inserted from the same side as screw-fastening takes place. This allows fastening points at the same height and width across corners.

The spring retainer also provides for electrical connection in the system punchings.



Thread	Packs of	Model No.
M6	50 pc(s).	8800.340
M8	50 pc(s).	8800.350

Spring Nut M5

For Comfort Panel from an installation depth of 74 mm. The spring ensures reliable protection from unintentional displacement.

Further interior fitting, e.g. with

- Mounting bracket 4597.000 (see page 531) or
- Mounting bracket for interior fitting 6205.100 (see page 532)

Material:

- Steel, zinc-plated

Packs of	Model No.
50 pc(s).	6108.000



Threaded Inserts M6

for KS

To secure installed equipment to the molded bosses in the door and in the rear housing panel.
Screw length available for insertion: 8 mm.

Packs of	Model No.
20 pc(s).	1482.000



Multi-tooth screws

M6 x 12 suitable for:

- Snap-on nuts (8800.806)
- U nuts (4179.000)
- Captive nuts (4164.000)
- Threaded blocks (4162.000)

M8 x 12 suitable for:

- Snap-on nuts (8800.808)

Multi-tooth drive for optimum transmission of torques, extended tool life and increased safety and reliability when tightening and loosening screw connections.

Type of screw	Dimensions mm	Packs of	Model No.
Multi-tooth screws	M6 x 12 M8 x 12	300 pc(s). 300 pc(s).	2504.500 2504.800
Multi-tooth sheet metal screws	5.5 x 13	300 pc(s).	2486.500
Multi-tooth sheet metal screws for stainless steel	5 x 13	300 pc(s).	2486.300
Self-tapping screws:			
■ Hex screws	M5 x 10	500 pc(s).	2504.000
■ Posidrive raised countersunk screws	M5 x 12	500 pc(s).	2488.000
■ Pan-head screws, posidrive	M5 x 12	500 pc(s).	2489.000
■ Pan-head screws, multi-tooth	M5 x 12	500 pc(s).	2489.500
Self-tapping screws	ST 4.8 x 16	300 pc(s).	2487.000

Multi-tooth sheet metal screws

For Ø 4.5 mm round holes in the enclosure profile, punched rails and punched section without mounting flange.

Self-tapping screws

For Ø 4.5 mm round holes in the enclosure profile, punched rails and punched section without mounting flange.

Self-tapping screws

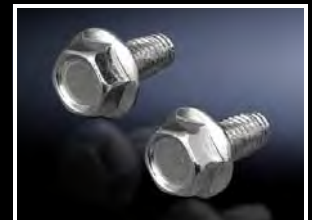
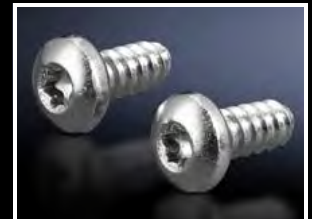
Mark, drill and tighten in a single operation using electric or pneumatic tools.

For plate thickness: 0.8 – 3 mm

Length: 16 mm

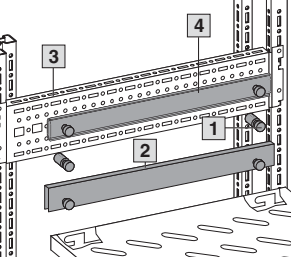
Useful length: 9.5 mm

Width across flats: 8 mm

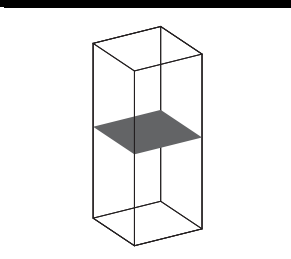
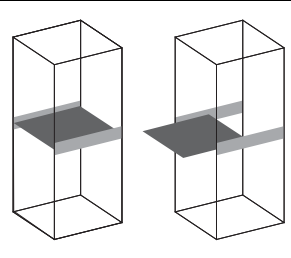


Interior Fittings

Component Shelves for Frame Attachment



- 1 Fastening Bolts
- 2 Mounting Rails
- 3 Installation Kit
- 4 Telescopic Rails



Component Shelf for Frame Attachment

Enclosure width 600 and 800 mm for TS and for upgrading existing DK-TS applications

For installation in enclosures without 19" (482.6 mm) fixture.

Max. depth of component shelves =
Enclosure depth - 100 mm

Technical specifications:

- Fastening bolts or mounting rails may be installed on a 25 mm hole pattern in the enclosure depth
- Mounting hole for handles provided
- Component shelf, slotted

Material:

- Carbon steel

Color:

- RAL 7035

Supply includes:

- Assembly components

Enclosure width 24" (600 mm)

Load capacity lb (kg) (Surface load, static)	110 (50)	110 (50)	110 (50)	110 (50)	221 (100)	221 (100)	221 (100)
Component shelf height, inches (mm)	1.1 (29)	1.1 (29)	1.1 (29)	1.1 (29)	1.8 (45)	1.8 (45)	1.8 (45)
Component shelf depth, inches (mm)	16 (400)	20 (500)	24 (600)	28 (700)	20 (500)	24 (600)	28 (700)
Model No.	7164.035	7165.035	7166.035	7166.735	7465.035	-	7466.735

Enclosure width 32" (800 mm)

Load capacity lb (kg) (Surface load, static)	110 (50)	110 (50)	110 (50)	110 (50)	221 (100)	221 (100)	221 (100)
Component shelf height, inches (mm)	1.1 (29)	1.1 (29)	1.1 (29)	1.1 (29)	1.8 (45)	1.8 (45)	1.8 (45)
Component shelf depth, inches (mm)	16 (400)	20 (500)	24 (600)	28 (700)	20 (500)	24 (600)	28 (700)
Model No.	7184.035	7185.035	7186.035	7186.735	-	7486.035	7486.735

! Also required:

TS system chassis 17 x 73 mm as installation kit for enclosure depth, inches (mm), see page 522	20 (500)	8612.050	8612.050	8612.050	8612.050	8612.050	8612.050	8612.050
	24 (600)	8612.060	8612.060	8612.060	8612.060	8612.060	8612.060	8612.060
	32 (800)	8612.080	8612.080	8612.080	8612.080	8612.080	8612.080	8612.080
	39 (1000)	8612.000	8612.000	8612.000	8612.000	8612.000	8612.000	8612.000
	47 (1200)	8612.020	8612.020	8612.020	8612.020	8612.020	8612.020	8612.020

+ Accessories:

Telescopic slides, see page 543	7061.000	7081.000	7161.000	7161.700	7065.000	-	7066.700
Handles for component shelves, see page 544	5501.730	5501.730	5501.730	5501.730	5501.730	5501.730	5501.730
Cable support, hinged	see page 544						

Component Shelf, Static Installation

for TS, PC

prepared for fan expansion kit

Mounted directly on the vertical TS enclosure section. Simply locate the 4 pre-installed screws and secure.

Load capacity:

- 40 kg surface load, static

Material:

- Carbon steel

Color:

- RAL 7015

Supply includes:

- Assembly components

For enclosures ¹⁾		Support area		Model No.
Width inches (mm)	Depth inches (mm)	Width inches (mm)	Depth inches (mm)	
24 (600)	24 (600)	20 (507)	22 (550)	8800.900
24 (600)	32 (800)	20 (507)	30 (750)	8800.910

¹⁾ For enclosures without mounting plate

+ Accessories:

- Fan expansion kit 7980.XXX, see page 358

Component shelves for attaching to the 19" system punching

Component Shelf, Static Installation

19" (482.6 mm), depth-variable for TS IT

For static installation between two 19" mounting levels.

- Depth-variable to adapt to individual distances between levels
- Tool-free, time-saving one-person assembly

Material:

- Carbon steel

Surface finish:

- Spray-finished

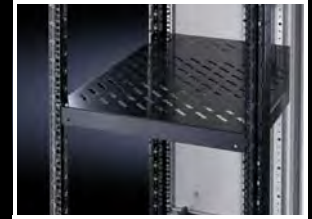
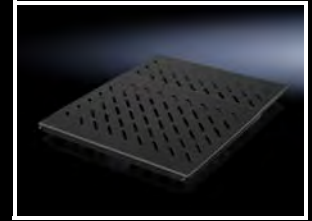
Color:

- RAL 9005

Supply includes:

- Assembly components

Distance between levels inches (mm)	Load capacity, static lb (kg)	Height U	Packs of	Model No.
16 – 24 (400 – 600)	110 (50)	½	1 set(s)	5501.655
24 – 35 (600 – 900)	110 (50)	½	1 set(s)	5501.665
16 – 24 (400 – 600)	221 (100)	1	1 set(s)	5501.695
24 – 35 (600 – 900)	221 (100)	1	1 set(s)	5501.705



Component Shelf, Pull-Out

19" (482.6 mm) for TS IT

Mounted between two 19" mounting levels.

- Depth-variable to adapt to individual distances between levels
- Tool-free, time-saving one-person assembly from the enclosure front
- Self-locking
- Full withdrawal

Material:

- Carbon steel

Surface finish:

- Spray-finished

Color:

- RAL 9005

Supply includes:

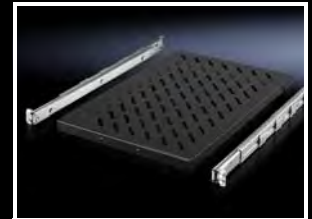
- Component shelf, slotted
- Telescopic slide with mounting kit
- Assembly components

Distance between levels inches (mm)	Load capacity, static lb (kg)	Height U	Depth inches (mm)	Packs of	Model No.
16 – 24 (400 – 600)	110 (50)	1	20 (500)	1 set(s)	5501.675
24 – 35 (600 – 900)	110 (50)	1	28 (700)	1 set(s)	5501.685
16 – 24 (400 – 600)	221 (100)	1½	20 (500)	1 set(s)	5501.715
24 – 35 (600 – 900)	221 (100)	1½	28 (700)	1 set(s)	5501.725



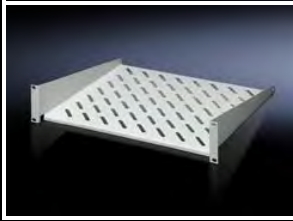
Accessories:

- Handle for component shelf 5501.730, see page 544



Interior Fittings

Component shelves for attaching to the 19" system punching



Component Shelf 2 U, Static Installation

19" (482.6 mm)

for 19" system punchings

For mounting on a 19" mounting level.

Load capacity:

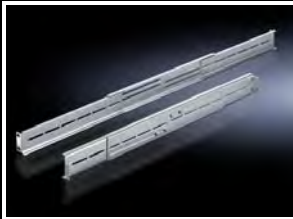
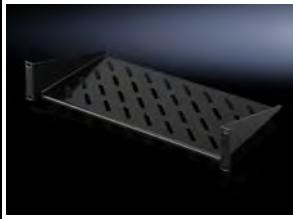
- 25 kg surface load, static

Material:

- Carbon steel

Surface finish:

- Spray-finished



Component shelf depth inches (mm)	RAL color	Packs of	Model No.
10 (250)	9005	1 pc(s).	5501.615
16 (400)	9005	1 pc(s).	5501.625

Note:

- Not suitable for combination with telescopic slides



Also required:

- Captive nuts, see page 538
- Screws, see page 539

Installation Kit, Depth-Variable for 19" component shelves

Depending on the clearance between the two 19" (482.6 mm) levels, the mounting kit is screw-fastened in the depth directly to the 19" (482.6 mm) system punching.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

19" clearance between levels inches (mm)	Packs of	Model No.
22 – 33 (550 – 850)	2 pc(s).	7063.850

Installation kits/Accessories for component shelves

TS System Chassis 17 x 73 mm

as installation kit for component shelves

Simply locate and secure. One pack is sufficient for 2 component shelves.

Load capacity:

- 100 kg surface load, static

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Installation in enclosure depth inches (mm)	Packs of	Model No.
20 (500)	4 pc(s).	8612.050
24 (600)	4 pc(s).	8612.060
32 (800)	4 pc(s).	8612.080
39 (1000)	4 pc(s).	8612.000
47 (1200)	4 pc(s).	8612.020



Adapter for L Rails

for TS network enclosures

To mount component shelves and slide rails on L rails.

Material:

- Carbon steel

Supply includes:

- Assembly components

Packs of	Model No.
4 pc(s).	7827.300



Telescopic Rails

for component shelves in TS and for upgrading existing DK-TS applications

Fixed component shelves can easily be upgraded to allow full withdrawal. In this case, the existing fastening bolts or mounting rails (heavy-duty version) are replaced with telescopic rails.

Technical description:

- For installation and locking on a 25 mm hole pattern in the enclosure depth

Load capacity:

- 50 kg/100 kg per set

Material:

- Carbon steel

Surface finish:

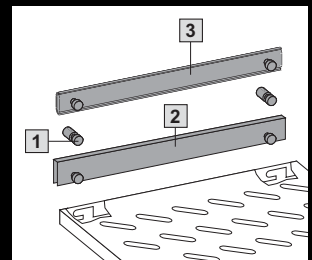
- Zinc-plated

Load capacity 110 lb (50 kg)

For component shelf depth inches (mm)	Packs of	Model No.
16 (400)	2 pc(s).	7061.000
20 (500)	2 pc(s).	7081.000
24 (600)	2 pc(s).	7161.000
28 (700)	2 pc(s).	7161.700

Load capacity 221 lb (100 kg)

For component shelf depth inches (mm)	Packs of	Model No.
20 (500)	2 pc(s).	7065.000



- 1 Fastening Bolts
- 2 Mounting Rails
- 3 Telescopic Rails

Interior Fittings

Accessories for Component Shelves



Cable Support

hinged, with quick-fit connector

For secure routing of connection cables from the component shelf with telescopic pull-out to the clamping point. Can be released from both sides using the quick-release fastener.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For enclosure depth, inches (mm)	Model No.
< 24 (600)	7163.500
> 24 (600)	7163.550



Cable Support

hinged, with anti-kink device and clamp

For secure routing of connection cables from the component shelf with telescopic pull-out to the clamping point. Kink-free cable routing in the desk unit using mobile chain links. Can be released from both sides using the quick-release fastener.

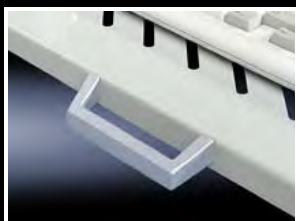
Material:

- Carbon steel, zinc-plated
- Center section: Plastic

Supply includes:

- Assembly components

For enclosure depth, inches (mm)	Model No.
< 24 (600)	7163.560
> 24 (600)	7163.565



Handles

for pull-out component shelves

The component shelves are designed to allow installations where a handle is required in the application.

Material:

- Die-cast zinc

Surface finish:

- Spray-finished, silver-gray

Supply includes:

- Assembly components

Packs of	Model No.
2 pc(s).	5501.730



Fastening Bolts

for slotted component shelves

Provides non-slip attachment of your components. The bolts are screwed into the slots in the component shelf support surface. This makes them adjustable and suitable for use with any components.

Packs of	Model No.
4 pc(s).	7115.000

System lights

- For direct mounting in all large enclosures
- For mounting on compact enclosures, wall-mounted enclosures and console systems using system accessories

Protection category IP to IEC 60 529:

- IP 20



Also required:

- Connection accessories, see page 550



Accessories:

- Adapter bracket, see page 533
- Universal bracket, see page 537
- Rail for interior fitting, see page 521



Technical comparison/fittings		Standard light	Courtesy light	Universal light	Compact light	LED system light	Enclosure light
Page		546	546	546	547	548	549
Supply voltage	100 – 240 V, 50/60 Hz	–	■	■	■	–	–
	120 V, 60 Hz	■	–	–	–	–	■
	230 V, 50 Hz	■	–	–	–	–	–
	24 V (DC)	–	–	–	■	■	–
Fully electronic ballast		–	■	■	■	–	■
Bulb	Fluorescent lamp, G13 backplate	■	■	–	–	–	■
	Compact fluorescent lamp, 2G11 backplate	–	–	■	–	–	–
	T5 fluorescent lamp	–	–	–	■	–	–
	LEDs, cool white	–	–	–	–	■	–
Protection category	I (equipment grounding conductor)	■	■	■	–	–	–
	II (total insulation)	–	–	–	■	–	–
	III (SELV)	–	–	–	–	■	–
Mounting type	Screw fastening	■	■	■	■	■	–
	Clip fastening	–	–	–	■	■	■
	Magnetic fastener (accessories)	–	–	–	■	■	–
Mounting option	TS roof frame (horizontal profile)	direct	■	■	■	■	■
		with adapter bracket	■	■	■	–	■
	TS, SE vertical profile	direct	–	–	–	■	–
		with adapter bracket	■	■	■	–	■
	SE roof frame (profile front and rear)	direct	–	–	–	■	■
		with adapter bracket	■	■	■	–	■
	SE roof frame (profile side)	direct	■	■	■	■	■
		with universal bracket	■	■	■	–	■
	AE, CM, TP	with magnetic fastener	–	–	–	■	–
		with rail for interior fitting	■	■	■	■	■
Connection options	Power supply/connection cable	■	■	■	■ ²⁾	■	■
	Door-operated switch	■	■	–	■	■	■
	Through-wiring (switch several lights in series)	■	■	■	–	■	–
Approvals	UL/cUL	■ ²⁾	–	■ ²⁾	■ ²⁾	– ¹⁾	■
	ENEC	■ ²⁾	■	–	■ ²⁾	–	–
	VDE	–	–	■ ²⁾	–	–	–
Fittings	Light bulb cover	–	■	■	■	■	■
	Light cone adjustment	–	–	–	–	■	–
	Integrated outlets, ground contact	■ ²⁾	■	■ ²⁾	–	–	–
	Integrated outlets, USA	■ ²⁾	–	–	–	–	■
	Integrated motion detector	–	–	■	–	–	–
	Integrated door-operated switch	■ ²⁾	■ ²⁾	–	–	–	–

¹⁾ Safety extra-low voltage, not required by the standard

²⁾ Depending on fittings

³⁾ Integrated

Interior Fittings

System lights



Universal light

With integral motion detector

Advantages:

- Insulated plastic housing
- Efficient compact fluorescent tubes
- Light easy to mount on enclosure

Material:

- Plastic

Supply includes:

- Mounting clips



Also required:

- Connection accessories, see page 550

Technical specifications	Outlet	Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.	Approvals
61 BTU (18 W), 110 – 240 V, 50 – 60 Hz	Ground contact	4 (95)	14 (343)	2 (55)	4155.110	VDE
	–	4 (95)	14 (343)	2 (55)	4155.010	VDE
	–	4 (95)	14 (343)	2 (55)	4155.510	UL



Courtesy light

Without door-operated switch

Technical specifications	Outlet	Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.	Approvals
48 BTU (14 W), 100 – 240 V, 50/60 Hz	Ground contact	5 (117)	18 (452)	2 (50)	4139.140	ENEC
61 BTU (18 W), 100 – 240 V, 50/60 Hz	Ground contact	5 (117)	27 (682)	2 (50)	4139.180	ENEC
102 BTU (30 W), 100 – 240 V, 50/60 Hz	Ground contact	5 (117)	39 (987)	2 (50)	4139.300	ENEC



With door-operated switch

Technical specifications	Outlet	Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.	Approvals
48 BTU (14 W), 100 – 240 V, 50/60 Hz	Ground contact	5 (117)	18 (452)	2 (50)	4139.150	ENEC
61 BTU (18 W), 100 – 240 V, 50/60 Hz	Ground contact	5 (117)	27 (682)	2 (50)	4139.190	ENEC
102 BTU (30 W), 100 – 240 V, 50/60 Hz	Ground contact	5 (117)	39 (987)	2 (50)	4139.350	ENEC



Also required:

- Connection accessories, see page 550



Standard light

Without door-operated switch

Technical specifications	Outlet	Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.	Approvals
48 BTU (14 W), 230 V, 50 Hz	Ground contact	5 (117)	18 (452)	2 (50)	4138.140	ENEC
61 BTU (18 W), 230 V, 50 Hz	Ground contact	5 (117)	27 (682)	2 (50)	4138.180	ENEC
102 BTU (30 W), 230 V, 50 Hz	Ground contact	5 (117)	39 (987)	2 (50)	4138.300	ENEC
48 BTU (14 W), 120 V, 60 Hz	USA	5 (117)	18 (452)	2 (50)	4138.240	cURus
61 BTU (18 W), 120 V, 60 Hz	USA	5 (117)	27 (682)	2 (50)	4138.280	cURus
102 BTU (30 W), 120 V, 60 Hz	USA	5 (117)	39 (987)	2 (50)	4138.400	cURus



With door-operated switch

Technical specifications	Outlet	Height inches (mm)	Width inches (mm)	Depth inches (mm)	Model No.	Approvals
48 BTU (14 W), 230 V, 50 Hz	Ground contact	5 (117)	18 (452)	2 (50)	4138.150	ENEC
61 BTU (18 W), 230 V, 50 Hz	Ground contact	5 (117)	27 (682)	2 (50)	4138.190	ENEC
102 BTU (30 W), 230 V, 50 Hz	Ground contact	5 (117)	39 (987)	2 (50)	4138.350	ENEC
48 BTU (14 W), 120 V, 60 Hz	USA	5 (117)	18 (452)	2 (50)	4138.250	cURus
61 BTU (18 W), 120 V, 60 Hz	USA	5 (117)	27 (682)	2 (50)	4138.290	cURus
102 BTU (30 W), 120 V, 60 Hz	USA	5 (117)	39 (987)	2 (50)	4138.450	cURus



Also required:

- Connection accessories, see page 550

Compact light

Slimmer – Faster – Brighter

- Slimmer: Height and depth reduced by around 50%, takes up 75% less volume than conventional lights
- Faster: Universal quick-release fastening using clips, screws or powerful magnets (optional). Easy to insert at the sides or rear, fit light and you're done!
- Brighter: Light has up to 75% higher standard comparison efficiency for the same output, for reduced energy costs
- Door-operated switch connection can be made using 2-pole connector

Color:

- Similar to RAL 7035

Protection category IP to IEC 60 529:

- IP 20

Supply includes:

- Compact light with clip and screw mounting kits plus assembly components

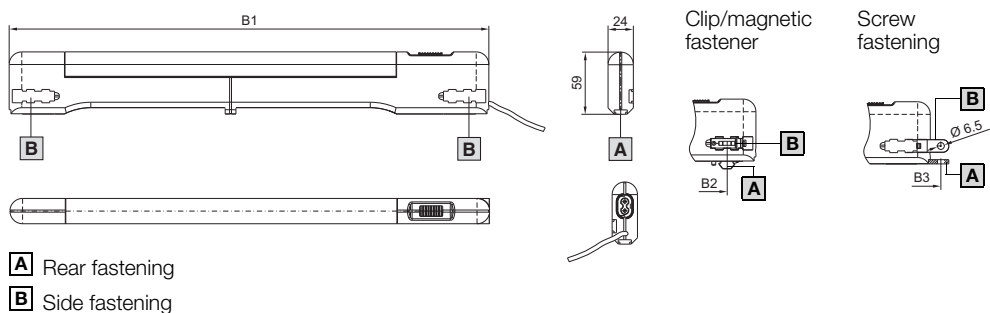


Accessories:

- Magnet mounting kit, see page 547
- Door-operated switch with connection cable, see page 550

Model No.	ENEC 24	4140.010	–	4140.020	–	4140.110	4140.120
	cURus	–	4140.210 ¹⁾	–	4140.220 ¹⁾	–	–
Rated voltage	100 – 240 V ±10% at 50 – 60 Hz					24 V (DC) ±10%	
BTU output (watts)	27 (8)			48 (14)		27 (8)	
Protection category	II (total insulation)						
Width (B1) inches (mm)	18 (455)			28 (705)		18 (455)	
Mounting clearance (B2) inches (mm) clip/magnet	16 (400)			26 (650)		16 (400)	
Mounting clearance (B3) inches (mm)	19 (475)			29 (725)		19 (475)	
Connection cable	118" (3 m) (open end)						
Sheath color	Yellow	Gray	Yellow	Gray	Yellow	Yellow	
Rated current A							
– at 230 V	0.045 – 0.088			0.073 – 0.127		–	
– at 110 V	0.083 – 0.149			0.149 – 0.216		–	
– at 24 V (DC)	–			–		0.35	
Bulb	T5 fluorescent lamp						
Controller	Wide range voltage EB					EB	
Switch	Integrated, On/Off/Door-Operated Switch mode						
Light cover	Transparent, grooves on the inside						
Cable deflector across rear	■	–	■	–	■	■	

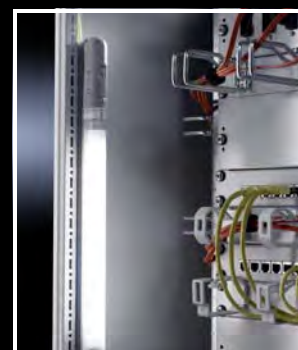
¹⁾ Only for the North American market



Magnet mounting kit

For reliable adhesion to all carbon steel surfaces.

Packs of	Model No.
2 pc(s).	4140.000



Interior Fittings

System lights



LED system light

In 24 V (DC) version

- Max. EMC capacity
- Protected with the safety extra-low voltage range
- Economical energy use
- Low-maintenance due to use of LEDs
- May be connected to a door-operated switch
- Integral through-wiring
- Universal mounting options
- Pivoting light cone

Material:

- Light body: extruded aluminum
- Light cover: Polycarbonate (halogen-free)
- Light ends: PC-ABS

Color:

- Similar to RAL 7035

Protection category IP to IEC 60 529:

- IP 20

Supply includes:

- LED system light with clip and screw mounting kits plus assembly components

Model No.	4140.810	4140.820	4140.830	4140.840
Rated voltage	24 V (DC) (±10%)			
Number of LEDs	10	20	30	40
Protection category	III (SELV)			
Width (B1) inches (mm)	9 (230)	13 (330)	17 (430)	21 (530)
Mounting clearance, CLIP (B2) inches (mm)	7 (175)	11 (275)	15 (375)	19 (475)
Mounting clearance, screw fastening (B3) inches (mm)	10 (250)	14 (350)	18 (450)	22 (550)
Rated current A ¹⁾	0.04	0.08	0.12	0.16
Switch	Integrated, On/Off/Door-Operated Switch mode			

¹⁾ Maximum baying up to a total rated current strength of 2 amps



Also required:

- LED connection cable, see page 549 or
- Door-operated switch with LED connection cable, see page 549

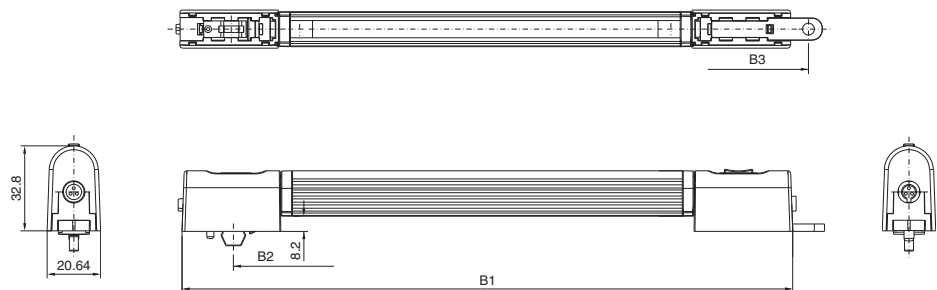


Accessories:

- Magnet mounting kit, see page 547
- Door-operated switch with LED interconnecting cable, see page 549
- LED interconnecting cable, see page 549
- Adapter power pack, see page 549

Note:

- Only intended for use in enclosures and closed housings
- When using on customer-supplied power packs, it is important to obtain the requisite approvals depending on the application

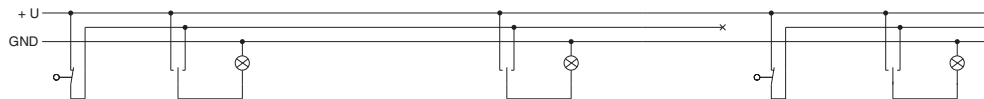
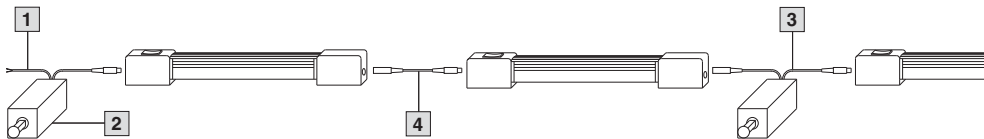


Connection accessories for LED system light

	Connection cable	Length inches (mm)	Packs of	Model No.
1	LED connection cable	118 (3000)	1 pc(s).	4315.800
	Door-operated switch	Length inches (mm)	Packs of	Model No.
2	With LED connection cable	118 (3000)	1 pc(s).	4315.810
3	With LED interconnecting cable	39 (1000)	1 pc(s).	4315.820
	Interconnecting cable	Length inches (mm)	Packs of	Model No.
4	LED interconnecting cable	24 (600)	1 pc(s).	4315.830
		39 (1000)	1 pc(s).	4315.840
		118 (3000)	1 pc(s).	4315.850
	Adapter power pack	Technical specifications	Packs of	Model No.
5	Adapter power pack	100 – 230 V/24 V (DC), 1 A	1 pc(s).	4315.860

Schematic diagram for LED 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



Enclosure light

- Simple installation
- External terminal block means there is no need for disassembly when connecting fluorescent tubes
- Available in 15 or 18 W
- With or without door-operated switch (4127.010, see page 550)
- Fitted with a suppression capacitor or an interference suppressor filter
- Available with or without bulb cover or 115 V US outlet

Technical specifications:

- Supply voltage: 120 V, 60 Hz
- Bulb: cool white
- Terminals: L1 N. GND
- On/off rocker switch

Color:

- RAL 7044

Protection category:

- UL recognized for Canada and USA

Supply includes:

- Assembly components

	Installation length inches (mm)	Technical specifications 120 V, 60 Hz	Model No.
With suppression capacitor, without outlet	18 (467)	15 W	9968.108
	24 (620)	18 W	9968.109
With interference suppression filter, US outlet and bulb cover	18 (467)	15 W	9968.111
	24 (620)	18 W	9968.112



Interior Fittings

System lights

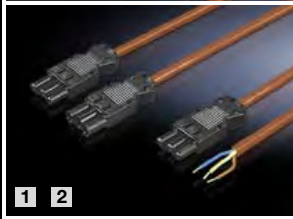
Connection accessories

The following components are available for easy, time-saving connection of lights:



Accessories:

- Cable ties for quick mounting, see page 576



Connection cable for		UL	Length inches (mm)	Packs of	Model No.	
					Orange	Gray
1	Power supply (with outlet, without connector)	–	118 (3000)	5 pc(s).	4315.100	–
1	Power supply (with socket and strain relief, without connector)	■	118 (3000)	1 pc(s).	–	4315.150
2	Through-wiring (with outlet and connector)	■	24 (600)	1 pc(s).	–	4315.450
2	Through-wiring/power supply via connection component 2507.500 (with outlet and connector)	–	24 (600)	5 pc(s).	4315.400	–
		–	39 (1000)		4315.200	–
		–	157 (4000)	1 pc(s).	4315.600	–

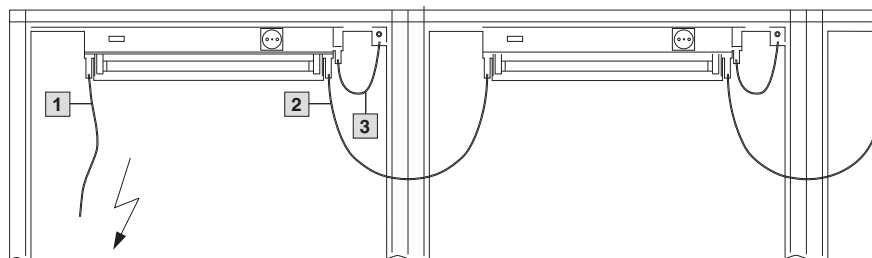
Door-operated switch with installation accessories		UL	Length inches (mm)	Technical specifications	Packs of	Model No.		
						Orange	Yellow	Gray
3	With connection cable (not required for universal lights and standard/courtesy lights with integrated door-operated switch)	–	24 (600)	240 V, 6 A 125 V, 8 A 24 V, 6 A 24 V (DC), 6 A	1 pc(s).	4315.520	–	–
		–	39 (1000)		1 pc(s).	4315.320	–	–
		■	24 (600)		1 pc(s).	–	–	4315.550
		■	39 (1000)		1 pc(s).	–	–	4315.350
	Without connection cable	■	–		1 pc(s).	4127.010		
4	With connection cable (for compact lights)	–	24 (600)	240 V, 2.5 A 125 V, 2.5 A 24 V, 2.5 A 24 V (DC), 2.5 A	1 pc(s).	–	4315.710	–
		■	24 (600)		1 pc(s).	–	–	4315.720

Door-operated switch with toggle		UL	Technical specifications	Packs of	Model No.
5	Without connection cable, for TS enclosures with large installed pivoting frame. The toggle is actuated via the tubular door frame of the carbon steel door, or in the case of glazed doors, via an adapter included with the supply.	■	240 V, 6 A 125 V (DC), 8 A 24 V, 6 A 24 V (DC), 6 A	1 pc(s).	4127.210

Connection components with 10 A circuit breaker			Packs of	Model No.
6	Reduce installation costs: System lights and workstation lights are supplied with power quickly and reliably through the connection cable. Use connector 2507.200 if you are configuring cables yourself. Connection component that snaps onto a top hat rail.		1 pc(s).	2507.500

For self-assembly		Packs of	Model No.
7	Outlets for power supply through-wiring	5 pc(s).	2507.100
	Connectors for connection component through-wiring	5 pc(s).	2507.200
	T distributor with 2 outlets, 1 connector	5 pc(s).	2507.300
	Connector for door-operated switch cable	5 pc(s).	2507.400

- 1 Connection cable for power supply
- 2 Connection cable for through-wiring/power supply
- 3 Door-operated switch with connection cable



EMC Baying Seal

for TS

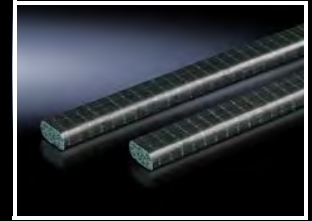
To bay enclosure systems.

Seal with all-round, electrically conductive sheathing.

Supply includes:

- 3 seals, length 2 m each

Cross-section inches (mm)	Model No.
0.25 x 0.25 (6.3 x 6.3)	8800.690



EMC Partition Wall Seal

This seal ensures optimum contact in bayed EMC enclosure systems and when using a zinc-plated divider panel.

Material:

- PU foam with electrically conductive sheathing

Supply includes:

- 1 roll (12.7 x 12.7 x 5300 mm)

Packs of	Model No.
1 pc(s).	4348.000



Rail

for EMC shielding bracket and strain relief

Combined rails for strain relief and EMC contacting of inserted cables.

Mounting option

- On the horizontal/vertical TS, SE, PC enclosure section
- On a mounting plate

May also be fitted without a retaining bracket
Additional contacting on the left or right of the rail via existing holes (9 mm diameter)

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- 1 rail
- 2 retaining brackets
- Assembly components

Width inches (mm)	Packs of	Model No.
24 (600)	1 pc(s).	2388.600
32 (800)	1 pc(s).	2388.800
39 (1000)	1 pc(s).	2388.000
47 (1200)	1 pc(s).	2388.120



Also required:

- EMC shielding bracket, see page 552
- Cable clamps for strain relief, see page 575



Accessories:

- Ground straps, see page 555
- Grounding braid, see page 555

Technical details:

Available on the Internet



Interior Fittings

EMC



EMC Shielding Bracket

Quick assembly, no tools required:
Press the EMC shielding bracket against the cable shield and clip into the rail.
Diameter changes are compensated in full by the spring.

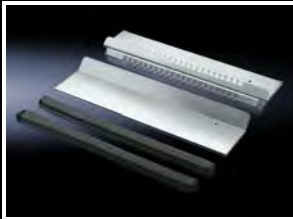
Material:

- Carbon steel

Surface finish:

- Zinc-plated

For shield diameter mm	Packs of	Model No.
3 – 10	10 pc(s).	2388.100
4 – 15	10 pc(s).	2388.150
10 – 20	10 pc(s).	2388.200
15 – 28	10 pc(s).	2388.280



EMC Base Plates

For shielded cables with max. 20 mm diameter.
Combined EMC/IP seal provides for low-resistance contact between cable shield and base plate.
For all 400, 500, 600 and 800 mm deep enclosures, in combination with standard base plates.

Material:

- Carbon steel

Surface finish:

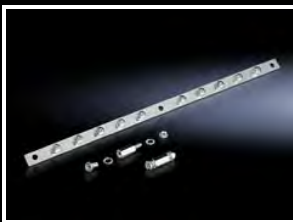
- Zinc-plated

Supply includes:

- 1 base plate with T-head punching
- 1 sliding base plate
- 2 IP/EMC seals

Width inches (mm)	Packs of	Model No.
24 (600)	1 set(s)	8800.660
32 (800)	1 set(s)	8800.680
39 (1000)	1 set(s)	8800.600¹⁾
47 (1200)	1 set(s)	8800.620¹⁾

¹⁾ For one enclosure half only



EMC Shield Bus

Made of corrosion-resistant steel strip, 75 mm² cross section, for cable shield contact.

Supply includes:

- Assembly components

Rail length inches (mm)	Connections	Packs of	Model No.
15 (375)	10	1 pc(s).	2413.375
22 (550)	16	1 pc(s).	2413.550



EMC Ground Clamps

The clamps can be used on the device itself or on the operating equipment on the mounting plate.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Size mm	Packs of	Model No.
4	50 pc(s).	2367.040
6	50 pc(s).	2367.060
8	50 pc(s).	2367.080
12	50 pc(s).	2367.120
16	50 pc(s).	2367.160
20	25 pc(s).	2367.200¹⁾

¹⁾ 2 assembly brackets

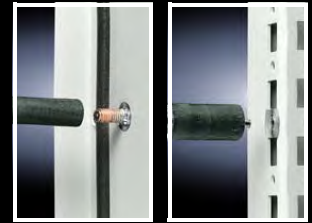
Contact Cutter

The contact cutter enables EMC-compatible preparation of the contact point e.g. for grounding braids. Resin-bonded wire brush with guide pin for round system holes.

With arbor for drill, grinder, etc.

For	Model No.
Frame section	2414.000
Grounding stud ¹⁾	2414.500

¹⁾ Not necessary with TS



Contact Paint

Contact paint prevents the corrosion of conductive, unprotected contact points.

Content:

– 12 ml

Packs of	Model No.
1 pc(s).	2415.000

Interior Fittings

For areas at risk of earthquake



TS 8 for Earthquake Zones 1, 2 and 3 to Bellcore

8806.500:

H x W x D 2000 x 800 x 600 mm

With base/plinth (base/plinth components at front and back, see page 427 and base/plinth- trim panel at the side, see page 428), 100 mm high.

Note:

- These versions have been tested and meet the requirements of Telcordia GR 63-CORE. They are to be understood as comparative figures for your own systems, as certification of empty housings is not possible.

TS 8 for Earthquake Zone 4 to Bellcore

8806.500:

H x W x D 2000 x 800 x 600 mm

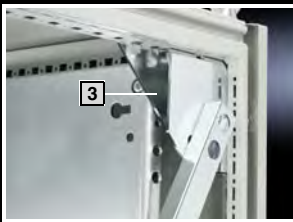
Equipped with

- Earthquake kit and
- Earthquake base/plinth, see page 554

(Photo shows TS 8 for Earthquake Zone 4 to Bellcore)

Technical details:

Available on the Internet



Earthquake kit

Material:

- Carbon steel

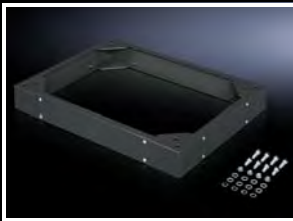
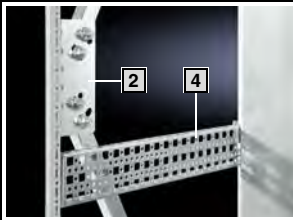
Surface finish:

- Zinc-plated

Supply includes:

- 2 side reinforcements, bottom
- 2 bracing struts each, sides
- 8 gusset plates
- Mounting plate attachment and reinforcement including assembly components

For enclosures H x W x D inches (mm)	Packs of	Model No.
79 x 32 x 24 (2000 x 800 x 600)	1 pc(s).	8613.860



Earthquake Base/Plinth

Height 100 mm

Material:

- Corner pieces: Carbon steel, 5 mm
- Panels: Carbon steel, 2 mm

Surface finish:

- Powder-coated

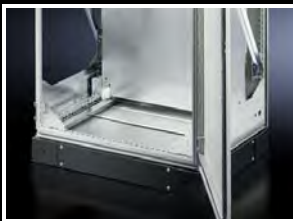
Color:

- RAL 7022

Supply includes:

- 1 set =
- 4 corner pieces,
- 2 depth stays,
- each with one trim panel at front and rear
- fully assembled

For enclosures W x D inches (mm)	Packs of	Model No.
32 x 24 (800 x 600)	1 pc(s).	8601.860



Ground straps

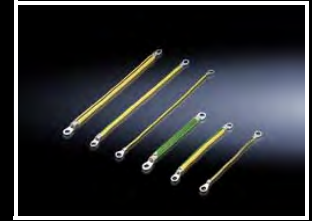
To configure a reliable grounding connection with perfect contact

- With ring terminals in M6 and M8 to match the grounding screws
- Length-optimized and ready to install

Housing	Connection option		
	Door/Cover	Housing	Mounting Plate
KL	M6	M6	M8
EB	M6	M6	–
AE	M6	M6 ¹⁾ /M8	M8
KE/KEL	M8	M8	M8
CM/TP	M6	M8	M8
TS/SE	M8	M8	M8
PC	M8	M8	–

¹⁾ M6 with AE 1032.XXX/AE 1035.XXX

Connection	Cross-section mm ²	Length inches (mm)	Packs of	Model No.
M8 – M8	4	7 (170)	5 pc(s).	2564.000
M8 – M8	16	7 (170)	5 pc(s).	2565.000
M8 – M8	25	7 (170)	5 pc(s).	2566.000
M6 – M6	10	8 (200)	5 pc(s).	2565.100
M8 – M8	4	12 (300)	5 pc(s).	2567.000
M6 – M8	10	12 (300)	5 pc(s).	2565.110
M8 – M8	10	12 (300)	5 pc(s).	2565.120
M8 – M8	16	12 (300)	5 pc(s).	2568.000
M8 – M8	25	12 (300)	5 pc(s).	2569.000



Grounding braid

Tin-plated copper, in various lengths and cross-sections with press-fit contact rings. Grounding braids counteract the proximity effect at high frequencies, while offering flexible connection options.

For	Cross-section mm ²	Length inches (mm)	Packs of	Model No.
M6	10	8 (200)	10 pc(s).	2412.210
M8	16	8 (200)	10 pc(s).	2412.216
M8	25	8 (200)	10 pc(s).	2412.225
M6	10	12 (300)	10 pc(s).	2412.310
M8	16	12 (300)	10 pc(s).	2412.316
M8	25	12 (300)	10 pc(s).	2412.325



Assembly components

for system punchings

To fasten ground straps and grounding braids to

- Horizontal TS enclosure sections
- PS rail systems
- Horizontal SE enclosure sections (in the depth only, top)

Size	Packs of	Model No.
M6	10 set(s)	2570.000
M8	10 set(s)	2559.000



Also required:

- For mounting on the horizontal TS, SE enclosure section: Captive nut, see page 538



Assembly components

for base plates

To fasten ground straps and grounding braids to

- Base plates

Self-tapping screws allow for rapid assembly

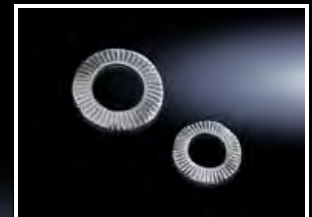
Size	Packs of	Model No.
M8	10 set(s)	2570.200



Contact washers

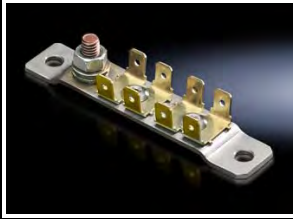
The serrated contact washers facilitate a secure protective grounding conductor connection. No need to manually remove paint at the point where the connection is made.

Size	Packs of	Model No.
M5	100 pc(s).	2343.000
M6	100 pc(s).	2334.000
M8	100 pc(s).	2335.000



Interior Fittings

Grounding



Grounding plate

For installation in

- Comfort Panel
- TS
- SE
- PC

A grounding cable can be screwed onto the threaded bolt and connected with up to eight components via a 6.3 mm spade terminal using grounding bands.

Packs of	Model No.
1 pc(s).	2570.500

Supply includes:

- Assembly components



Central grounding point

For connecting

- Grounding bands
- Grounding braids

To the vertical and horizontal enclosure section.

The terminal lug is joined to and makes contact with the enclosure frame by means of two sheet metal screws.

The ground connection is made through the M8 x 20 mm threaded bolt.

Material:

- Carbon steel

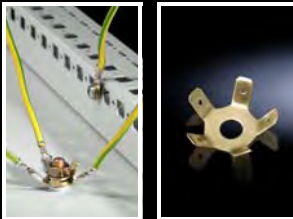
Surface finish:

- Zinc-plated

Packs of	Model No.
1 pc(s).	7829.200

Supply includes:

- 1 connection bracket
- 2 assembly screws for mounting to the enclosure section
- 2 serrated washers
- 1 nut M8
- 1 contact lock washer M8
- 1 washer



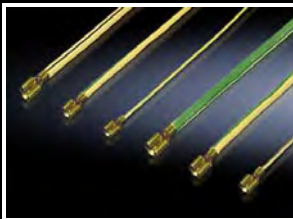
Equipotential bonding star for 8 mm grounding bolt

The grounding connector is used for simple equipotential bonding on an 8 mm grounding stud, or in conjunction with the central grounding point 7829.200. Up to five spade terminals (6.3 mm) can be contacted on one grounding point.

Packs of	Model No.
10 pc(s).	7548.210

Supply includes:

- 10 grounding connectors
- Assembly components



Complete grounding kit

for upgrading existing DK-TS applications

To DIN EN 60 950/VDE 0805, Ø 4 mm².

For system-compatible grounding of all enclosure parts on the enclosure frame. Ground conductors are pre-assembled ready for connection with connectors and cut to the correct length.

Packs of	Model No.
1 set(s)	7829.150

Supply includes:

- 8 ground straps
- Central grounding point and assembly components



Grounding kit KE

To produce the required external equipotential bonding for spray-finished housings in the following series:

- KL
- AE
- TS

For application areas in device group II, category 3, as per EC directive 94/9 EC Annex VIII, Internal Control of Production.

Packs of	Model No.
5 pc(s).	9214.000

Grounding kit

for KL

Includes all the screws, nuts, contact washers and grounding strap needed to ground the cover; length 250 mm, 4 mm² cross-section.

Packs of	Model No.
5 pc(s).	2570.100



PE busbar

699 mm-long PE busbar with 42 pre-assembled screws, including terminal clamps up to 6 mm² (fine-wire conductors), 10 mm² (single-wire or multi-wire conductors) and main terminal clamp up to 35 mm².

Packs of	Model No.
1 pc(s).	2364.000



Accessories:

- Rail mounting bracket, see page 537



Ground rail, horizontal

for TS

Supply includes:

- Ground 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 ground connections 25 mm²
- 2 isolators
- Assembly components

Length, inches (mm)	Packs of	Model No.
18 (450)	1 pc(s).	7113.000



Grounding kit, pre-assembled

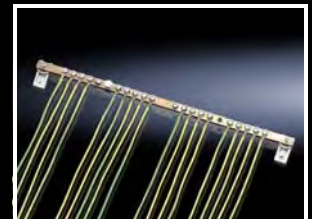
for TS, TS IT

For star grounding. With pre-assembled ground conductors to integrate an equipotential bonding strip in network enclosures.

Supply includes:

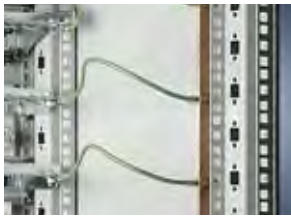
- Ground rail made from E-Cu 57 to DIN EN 12 163, DIN EN 13 601
- 16 grounding leads 6 mm²
- 2 isolators
- Assembly components

For TS enclosures up to H x W x D inches (mm)	Packs of	Model No.
79 x 32 x 32 (2000 x 800 x 800)	1 set(s)	7829.100
87 x 32 x 47 (2200 x 800 x 1200)	1 set(s)	7829.110



Interior Fittings

Grounding



Ground rail, vertical

for TS

Easy to mount on 25 mm DIN hole pattern on distributor or on 19" (482.6 mm) punched rails. The supplied ground conductors facilitate star grounding of cable clamp straps on patch panels. The ground terminals are fully adjustable. Rail current carrying capacity approx. 200 A.

Supply includes:

- Ground rail made from E-Cu 57 to DIN EN 12 163, DIN EN 13 601, 15 x 5 mm
- 16 conductor connection clamps 2.5 – 16 mm²
- 15 grounding leads 6 mm², L = 500 mm
- Assembly components

For enclosure height inches (mm)	Length inches (mm)	Packs of	Model No.
32 (800)	21 (545)	1 set(s)	7541.000
39 (1000)	29 (745)	1 set(s)	7542.000
47 (1200)	37 (945)	1 set(s)	7543.000
63 (1600)	53 (1345)	1 set(s)	7545.000
71 (1800)	61 (1545)	1 set(s)	7546.000
79 (2000)	69 (1745)	1 set(s)	7547.000
87 (2200)	77 (1945)	1 set(s)	7548.000

Extension kit

for ground rail, vertical

For system-compatible expansion of the star grounding on vertical grounding strips.

Supply includes:

- Grounding leads 6 mm², L = 500 mm
- Pre-assembled, with cable lug and wire end ferrule
- Ground terminals 2.5 – 16 mm²
- Assembly components

Packs of	Model No.
10 pc(s).	7549.000

ESD connection point

There is a risk of dangerously high potential differences when carrying out maintenance or conversion work on the enclosure. To protect sensitive electronic components, grounding can be provided through a standardized connection point (push-button). The connection point is connected to the enclosure frame by two screws and is directly conductive.

Packs of	Model No.
1 pc(s).	7752.950

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Busbars E-Cu

with integral holes

Suitable for

- Direct installation in enclosures
- Busbar supports
 - 9340.000/.010, see page 198
- PE/PEN combinations in conjunction with PE/PEN combination angles, see page 559, and E-Cu baying bracket, see page 560

Technical details:

Available on the Internet

Dimensions 30 x 5 mm (hole pattern Ø 11 mm)

For enclosure width inches (mm)	Length inches (mm)	Packs of	Model No.	Page
16 (400)	14 (365)	2 pc(s).	9661.345	
24 (600)	22 (565)	2 pc(s).	9661.365	
32 (800)	30 (765)	2 pc(s).	9661.385	
39 (1000)	38 (965)	2 pc(s).	9661.305	
47 (1200)	46 (1165)	2 pc(s).	9661.325	

Accessories

Baying bracket E-Cu	95	4 pc(s).	9661.355	560
PE/PEN combination angle	–	4 pc(s).	9661.235	559

Dimensions 30 x 10 mm (hole pattern Ø 11 mm)

For enclosure width inches (mm)	Length inches (mm)	Packs of	Model No.	Page
16 (400)	14 (365)	2 pc(s).	9661.340	
24 (600)	22 (565)	2 pc(s).	9661.360	
32 (800)	30 (765)	2 pc(s).	9661.380	
39 (1000)	38 (965)	2 pc(s).	9661.300	
47 (1200)	46 (1165)	2 pc(s).	9661.320	

Accessories

Baying bracket E-Cu	95	4 pc(s).	9661.350	560
PE/PEN combination angle	–	4 pc(s).	9661.230	559

PE/PEN combination angle, E-Cu

for PE/PEN combinations

The PE/PEN combination, comprising busbars, combination angles and baying brackets, supports type-tested configurations as per IEC 61 439-1. The pre-assembled combination angles, baying brackets and the busbars individually cut to the enclosure width make for extremely time and cost-efficient assembly.

Material:

- E-Cu

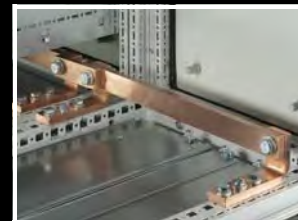
Supply includes:

- Assembly components

Tested short-circuit resistance

- PE/PEN combination 30 x 5 mm:
 I_{cw} 18 kA, 1 sec.
- PE/PEN combination 30 x 10 mm:
 I_{cw} 30 kA, 1 sec.
- PE/PEN combination 40/80 x 10 mm:
 I_{cw} 60 kA, 1 sec.

For busbars mm	Application		Dimension mm	Packs of	Model No.
	Form 2-4	Others			
30 x 5	■	■	30 x 5	4 pc(s).	9661.235
30 x 10	■	■	30 x 10	4 pc(s).	9661.230



Interior Fittings

Grounding



Baying bracket E-Cu

For busbars mm	Length inches (mm)	Packs of	Model No.
30 x 5	4 (95)	4 pc(s).	9661.355
30 x 10	4 (95)	4 pc(s).	9661.350

Cable routing

Cable entry



Cable entry plates

for

- Cable entry grommets
- Connector grommets

Instead of the standard, segmented divided base plates

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For installation in TS, SE and PC enclosures

Enclosure width inches (mm)	Cut-outs per plate	Packs of	Model No.
24 (600)	5	2 pc(s).	8800.060
32 (800)	8	2 pc(s).	8800.080
39 (1000)	4	4 pc(s).	8800.100
47 (1200)	6	4 pc(s).	8800.120

For installation in CM enclosures and TP TopConsole system

Enclosure width inches (mm)	Cut-outs per plate	Packs of	Model No.
24 (600)	5	1 pc(s).	5001.226
32 (800)	8	1 pc(s).	5001.227
39 (1000)	4	1 pc(s).	5001.228
47 (1200)	6	1 pc(s).	5001.229
63 (1600)	8	1 pc(s).	5001.237

For installation in TP universal console

Enclosure width inches (mm)	Cut-outs per plate	Packs of ¹⁾	Model No.
24 (600)	5	2 pc(s).	4320.700
32 (800)	8	2 pc(s).	4321.700
39 (1000)	10	2 pc(s).	4323.700

¹⁾ Including compensating plate



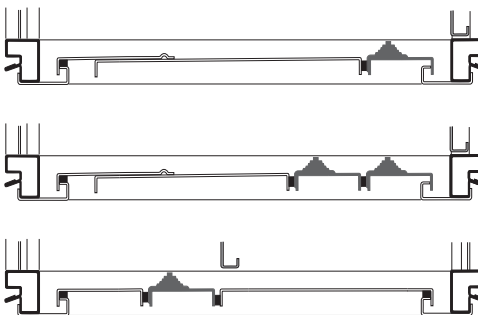
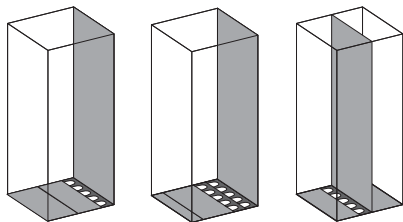
Accessories:

- Cable entry grommets, see page 562

Three examples from a wide range of options

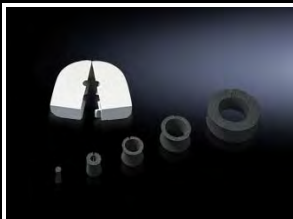
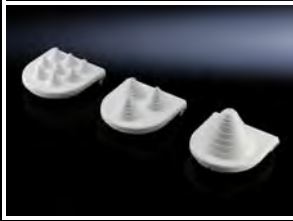
The graphics show three TS examples for the positioning of cable entry plates instead of segments of the standard three-piece base plates. This enables appropriate positioning in line with the mounting plate.

Thanks to the enclosure symmetry, the cable entry plates, like the base plates, can also be used in the enclosure depth, on the right and left.



Cable routing

Cable entry



Cable entry grommets

Combined with the cable entry plate for simple and fast sealing of cables inserted in the base area of enclosures.

Material:

- Body: Polypropylene
- Cover: Thermoplastic elastomer

Protection category IP to IEC 60 529:

- IP 55 when installed per instructions

Cable per grommet	Max. Ø mm	Packs of	Model No.
8	13	25 pc(s).	4316.000
3	21	25 pc(s).	4317.000
1	47	25 pc(s).	4318.000

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 when installed per instructions

Packs of	Model No.
10 pc(s).	4311.000

Section for cable entry, center for TS, SE, CM, TP

For top-mounting on base plates. The better alternative to a foam cable clamp strip, thanks to:

- Easier mounting
- Full-surface support
- High level of sealing of cables inserted into the enclosure

Material:

- Extruded aluminum section
- Seal: PU foam
- Cross-section: 30 x 25 mm

Protection category IP to IEC 60 529:

- IP 55 when installed per instructions

Note:

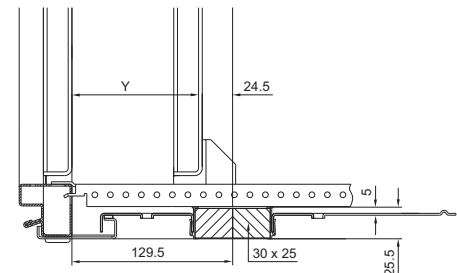
- 1 set is sufficient for one base opening up to an enclosure width of 800 mm, from an enclosure width of 1000 mm upwards, two base openings are present
- Two sets per enclosure may be fitted

For enclosure width inches (mm)	Packs of	Model No.
24 (600)	1 set(s)	8802.060
32 (800)	1 set(s)	8802.080
39 (1000)	2 set(s)	8802.100
47 (1200)	2 set(s)	8802.120
63 (1600)	2 set(s)	8802.160



Accessories:

- Cable clamping rail (angle profile), see page 574
- C rail 30/15, see page 528



Y = mounting plate is depth-adjustable in the 25 mm hole pattern (last hole pattern 30 mm)

Section for cable entry, rear for TS, SE, CM, TP

Unlike with the section for cable entry, center, the rear section is snap-fastened directly to the base opening. This means that, when installing the mounting plate in the rearmost position (TS), or with CM, the cables may be routed directly to a cable clamping rail without large bending radii. In conjunction with the cable clamping rail, optimum adjustment between the cable entry and mounting plate can be achieved.

Material:

- Extruded aluminum section
- Seal: PU foam
- Cross-section: 30 x 25 mm

Protection category IP to IEC 60 529:

- IP 55 when installed per instructions

Note:

- 1 set is sufficient for one base opening up to an enclosure width of 800 mm, from an enclosure width of 1000 mm upwards, two base openings are present
- 2 sets per enclosure may be fitted

For enclosure width inches (mm)	Packs of	Model No.
24 (600)	1 set(s)	8802.065
32 (800)	1 set(s)	8802.085
39 (1000)	2 set(s)	8802.105
47 (1200)	2 set(s)	8802.125
63 (1600)	2 set(s)	8802.165



Accessories:

- Cable clamp rail, see page 574



Self-adhesive foam cable clamp strip

To seal the cable entry between the base plates. Particularly suitable for cables with identical cross-sections.

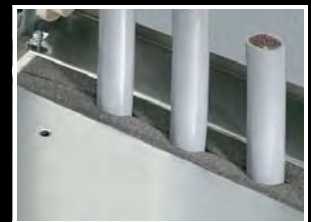
Material:

- PU foam
- Cross-section: 30 x 30 mm

Protection category IP to IEC 60 529:

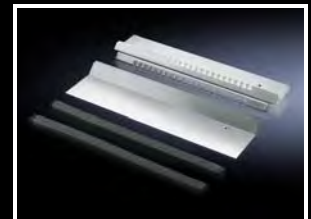
- IP 55 when installed per instructions

Packs of	Model No.
118" (3 m)	2573.000



EMC base plates

see page 552



Cable routing

Flange plates



Plastic cable gland plates

With PG knockouts

With pre-punched PG holes for cable glands.
Use standard flange plate seal.

Temperature range:

– Can be used from -40°F...+158°F

Material:

– ABS

Color:

– RAL 7035

Protection category IP to IEC 60 529:

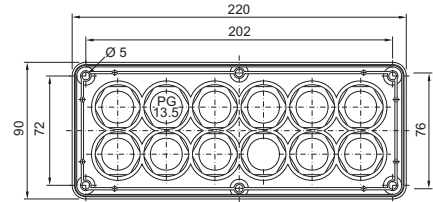
– IP 55 when installed per instructions

Note:

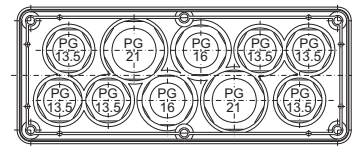
– The applicable size may be taken from the respective product ordering page

Size	PG	Qty.	Packs of	Model No.
2	13.5	12	5 pc(s).	1581.000
	13.5	6	5 pc(s).	1582.000
	16	2		
	21	2		

1581.000



1582.000



Plastic cable flange plates

with membranes

Just pierce the plastic with a sharp point and pull the cable through.

Material:

– Plastic to UL 94-V0

Color:

– Similar to RAL 7035

Protection category IP to IEC 60 529:

– IP 65 with installation per instructions

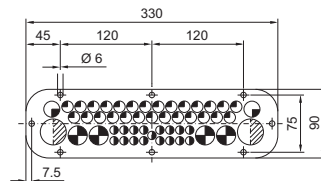
Note:

– The applicable size may be taken from the respective product ordering page

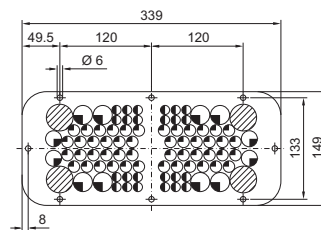
Size	Packs of	Model No.
3	1 pc(s).	2561.500
4	1 pc(s).	2562.500
5	1 pc(s).	2563.500

	Diameter in mm	Number of cable entries for Model No.		
		2561.500	2562.500	2563.500
●	5 – 9	–	–	18
◐	6 – 11	17	–	–
◑	7 – 12	–	24	16
◒	10 – 15	27	48	36
◓	15 – 21	2	4	–
◔	15 – 24	–	–	6
◕	15 – 25	–	8	–
◖	16 – 25	4	–	–
◗	19 – 34	2	–	–
◘	23 – 30	–	–	2
◙	26 – 35	–	4	2
◚	26 – 54	–	–	4
○	50 – 110	–	–	1

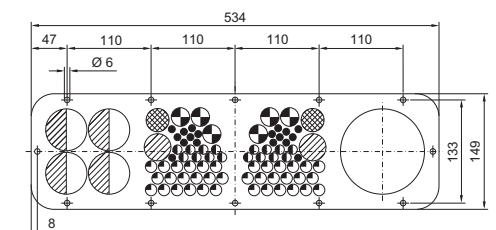
Size 3



Size 4



Size 5



Metal flange (gland) plates

with metric knockouts

Simply knock out the holes for the cable glands with a screwdriver.

Material:

– Carbon steel

Color:

– RAL 7035

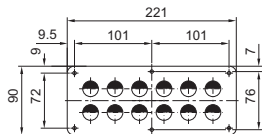
Protection category IP to IEC 60 529:

– IP66 when mounting in the usual position at the bottom

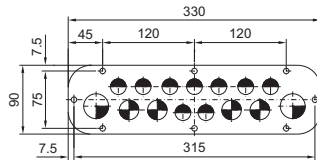
Note:

– The applicable size may be taken from the respective product ordering page

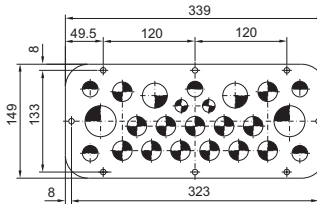
Size 2



Size 3



Size 4



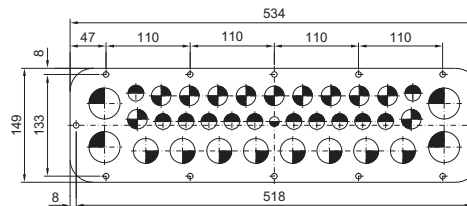
Size	Packs of	Model No.
2	1 pc(s).	1581.100
3	1 pc(s).	2561.100
4	1 pc(s).	2562.100
5	1 pc(s).	2563.100

Number of cable entries

Diameter						Model No.
M12	M16	M20	M25	M32	M40	
–	–	12	–	–	–	1581.100
–	–	9	4	2	–	2561.100
–	2	5	13	2	2	2562.100
1	–	12	11	8	4	2563.100



Size 5



Cable routing

Flange plates



Metal flange (gland) plates

As a spare/replacement part for flange plates supplied loose as standard.

Material:

– Carbon steel

Color:

– RAL 7035

Protection category IP to IEC 60 529:

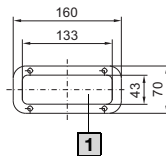
– IP66 when mounting in the usual position at the bottom

Note:

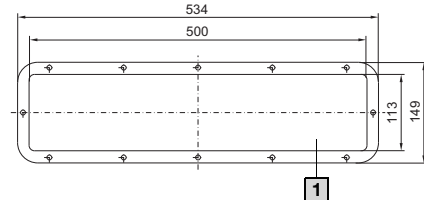
– The applicable size may be taken from the respective product ordering page

Size	Version	Packs of	Model No.
1	Solid	1 pc(s).	2560.400
2	Solid	6 pc(s).	1158.500
3	Solid	1 pc(s).	2561.400
4	Solid	1 pc(s).	2562.400
5	Solid	1 pc(s).	2563.150

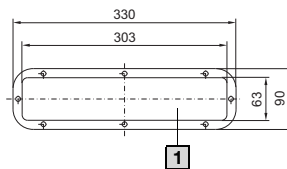
2560.400



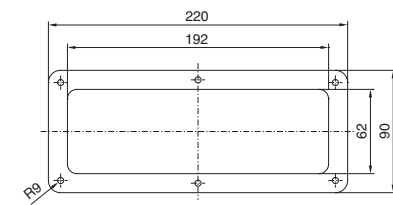
2563.150



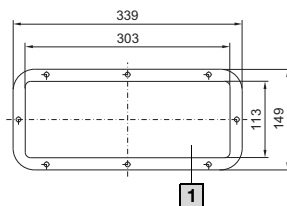
2561.400



1158.500



2562.400



1 Area available for population



Flange plate

for metric, screwed cable glands, for EL

Folded flange plate with foamed-in seal and pre-punched, knock-out holes for metric cable glands M12, M20, M25, M32, M40.

Material:

– Carbon steel, 1.5 mm

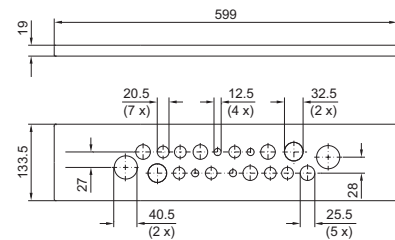
Color:

– RAL 7035

Protection category IP to IEC 60 529:

– IP 55

Packs of	Model No.
1 pc(s).	7705.235



Flange plates

Flange plate

with brush insert, for EL

Folded flange plate with foamed-in seal and plastic brush inserts for easy cable entry.

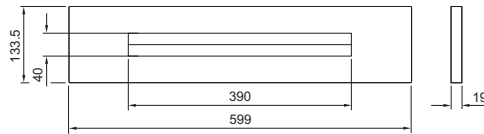
Material:

- Carbon steel, 1.5 mm

Color:

- RAL 7035

Packs of	Model No.
1 pc(s).	7705.035



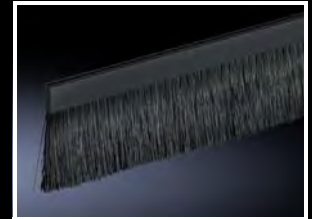
Brush strip

For individual expansion of enclosure panels, flange plates and panels. Cut-outs for cable entry at any position in the side panel, rear wall, doors, roof and base plate can be attractively finished off by simply attaching the brush strip.

Packs of	Model No.
79" (2 m)	7072.200

Technical specifications:

- For plate thickness: 0.6 – 1.5 mm
- Bristle length: 30 mm
- Plastic sheathing: 18 mm
- Snap-on surface: 10 mm
- Maximum cut-out height: 38 mm



Brush strip, super-airtight

For individual expansion of enclosure panels, flange plates and panels. Cut-outs for cable entry at any position in the side panel, rear wall, doors, roof and base plate.

This special brush strip can be used to create airtight entries for cable bundles and conductors. It has alternate offset brush strips, providing an excellent seal with the routed cables, even when large numbers are involved. This reduces unwanted friction losses to a minimum.

Packs of	Model No.
2 x 39" (2 x 1 m)	7825.375

Technical specifications:

- For plate thickness: 1.5 – 2 mm
- Bristle length: 58 mm
- Plastic sheathing: 14 mm
- Snap-on surface: 11.5 mm
- Cut-out width: 88 – 90 mm

Material:

- Plastic, UL 94-V0

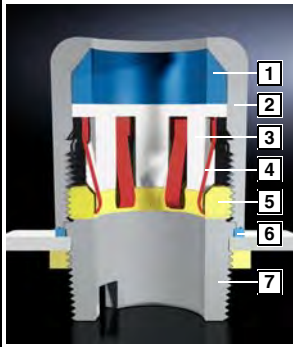
Supply includes:

- 1 brush strip each
- 1 m in length, right-hand and left-hand version

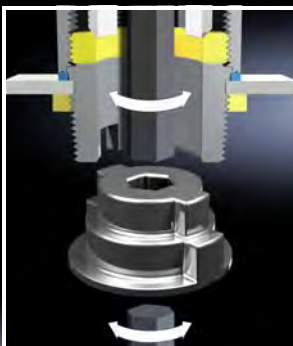
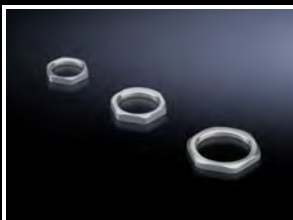


Cable routing

Cable gland



- 1 Seal
- 2 Cap nut
- 3 Clamping jaws
- 4 Shielding clip (EMC version only)
- 5 Clamping ring
- 6 Housing seal
- 7 Pedestal with fixture for mounting tool



HD cable gland

Applications:

- Production and packaging of food and beverages
- Clean room technology (e.g. pharmaceuticals)
- Biotechnology
- Chemical industry

Benefits:

- Smooth, solid exterior surfaces effectively prevent the accumulation of harmful micro-organisms
- Much easier, and therefore cheaper to clean compared with conventional cable glands

Material:

- Cap nut: Stainless steel 1.4305 (AISI 303)
- Seal: Conforms to FDA 21 CFR 177.2600

Protection category IP to IEC 60 529:

- IP 68 (5 bar, 30 min.)

Protection category IP to DIN 40 050-9:

- IP 69K

Standard version

Size	Cable diameter mm	Packs of	Model No.
M12 x 1.5	3 – 6.5	5 pc(s).	2410.000
M16 x 1.5	5 – 10	5 pc(s).	2410.010
M20 x 1.5	6 – 12	5 pc(s).	2410.020
M25 x 1.5	12 – 17	5 pc(s).	2410.030

EMC version

Size	Cable diameter mm	Packs of	Model No.
M16 x 1.5	5 – 10	5 pc(s).	2410.110
M20 x 1.5	6 – 12	5 pc(s).	2410.120
M25 x 1.5	12 – 17	5 pc(s).	2410.130

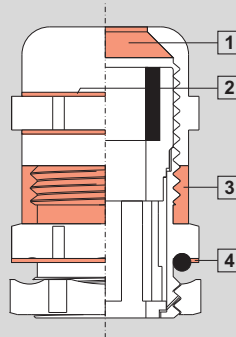
Note:

- Stainless steel lock nut is not included.
Order separately based on size page 568

Why choose hygiene-compliant cable glands?

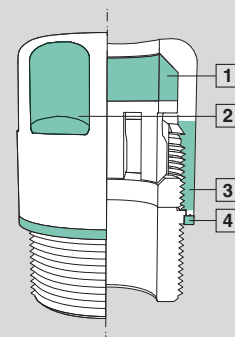
Critical locations with conventional solutions

- 1 Cable entry in front of the seal
- 2 No minimum radii on the hexagon
- 3 External thread
- 4 Split by O-ring on the housing support



Hygiene-compliant design characteristics

- 1 Seal direct at the cable entry
- 2 Compliance with minimum radii on the hexagon
- 3 No external thread
- 4 Flush connection between cap nut and housing



Stainless steel lock nut

To match HD cable glands.

Material:

- Stainless steel 1.4305 (AISI 303)

Size	Packs of	Model No.
M12 x 1.5	10 pc(s).	2410.200
M16 x 1.5	10 pc(s).	2410.210
M20 x 1.5	10 pc(s).	2410.220
M25 x 1.5	10 pc(s).	2410.230

Assembly tool

for HD cable glands

To secure HD cable glands in an internal thread or using lock nuts, either from the inside or from the outside using an Allen key.

Supply includes:

- 1 set = Adapter for sizes from M12 – M25

Packs of	Model No.
1 set(s)	2410.290

Cable gland

Connector gland

for connector cut-outs (24-pole)

To route 2 pre-assembled cables through the connector cut-out without disassembling the connector.

Cable diameter: 8 – 36 mm

Material:

- Housing: Plastic
- Clamps: Carbon steel

Surface finish:

- Clamps: Zinc-plated

Supply includes:

- 1 set =
2 half-shells, including seals, with fastening clamp

Packs of	Model No.
1 set(s)	2400.000



Edge protection

To cover the sharp edges of cut-outs. Provides protection from injury and prevents damage to inserted cables. Suitable for material thicknesses of approx. 1.0 – 2.0 mm, and may be cut to length as required.

Material:

- Plastic PVC

Color:

- Black

Packs of	Model No.
394" (10 m)	7072.100



Cable routing

Cable gland



With the “less is more effect”, the connector gland offers significantly less assembly work, a flexible sealing system for various cable diameters and simple routing of pre-assembled lines. Low installation costs, high protection category, flexible cable management – choose the added value offered by the latest generation of Rittal cable entry systems.

Advantages:

- Cable diameter 4 – 16 mm
- Simple routing of pre-assembled lines
- Individual cables can also be retrofitted and replaced without disassembling the sealing frame
- Sealing modules hold to the cable and are secure against loss



Sealing frame

For pre-assembled cables and lines with connectors.

Mounted on 24-pole or 16-pole connector cut-outs in

- Module plates for TS divider panel
- Metal flange plates

Material:

- Frame: Polyamide
- Flat seal: CR

Protection category IP to IEC 60 529:

- IP 64

Protection category NEMA

- NEMA 12

Supply includes:

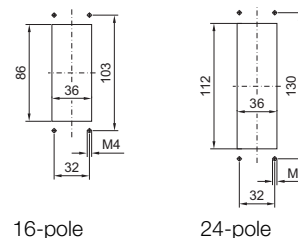
- Assembly components

For modules 0.8 x 0.8 inches (20 x 20 mm)	For cut-out	Packs of	Model No.
10 pc(s).	24-pole	1 pc(s).	2400.900
8 pc(s).	16-pole	1 pc(s).	2400.910



Accessories:

- Module plates for TS divider panel, see from page 455



16-pole

24-pole



Sealing modules

To seal cables and lines in conjunction with a sealing frame. 20 x 20 mm and 40 x 40 mm sealing modules can be combined.

Material:

- Hard shell: Polyamide
- Seal: TPE 2

Protection category IP to IEC 60 529:

- IP 64

Protection category NEMA:

- NEMA 12

Sealing modules 0.8 x 0.8" (20 x 20 mm)

Sealing area	Packs of	Model No.
0.16 – 0.24" (4 – 6 mm)	10 pc(s).	2400.920
0.24 – 0.35" (6 – 9 mm)	10 pc(s).	2400.930
Solid	10 pc(s).	2400.970

Sealing modules 1.6 x 1.6" (40 x 40 mm)

Sealing area	Packs of	Model No.
0.35 – 0.47" (9 – 12 mm)	10 pc(s).	2400.940
0.47 – 0.63" (12 – 16 mm)	10 pc(s).	2400.950
Solid	10 pc(s).	2400.960

Cable gland

Connector gland, small

For pre-assembled cables with connectors.

- For use with material thickness of up to 4 mm.
- Cable ties provide strain relief of the pre-assembled cables

Material:

- Plastic

Color:

- RAL 9005

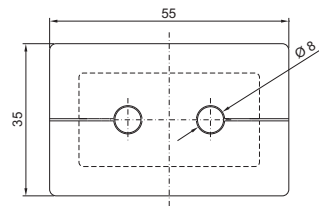
Protection category IP to IEC 60 529:

- IP 65 when installed per instructions

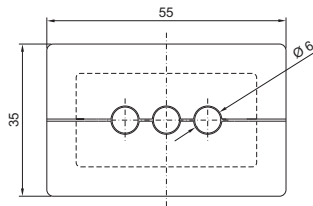
Supply includes:

- Assembly components

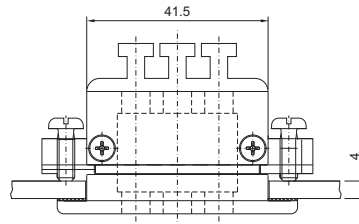
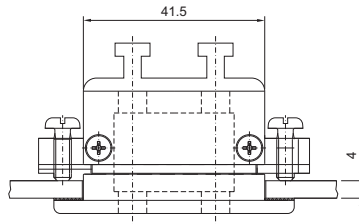
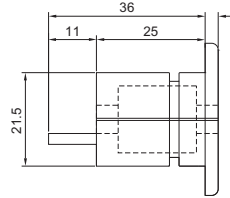
Suitable for	Packs of	Model No.
2 cables Ø 6 – 8 mm	1 pc(s).	2400.300
3 cables Ø 4 – 6 mm	5 pc(s).	2400.500



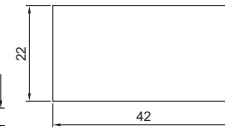
2400.300



2400.500



Mounting cut-out



Cable gland module

for support arm connection Ø 130 mm

Use of the mounting cut-out for the Ø 130 mm support arm connection, round, with housings mounted on the wall, for sealed cable entry. May also be mounted at a later date with the cables already inserted.

Equipped with T-heads for cable clamping. Particularly well-suited to cables with identical cross-sections.

Material:

- Carbon steel

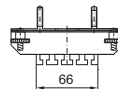
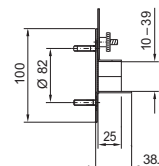
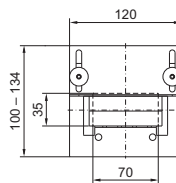
Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
1 pc(s).	6052.500



Stepped collar

for wall thicknesses from 1.5 to 4.5 mm

To insert cable, simply cut off at the required level to match the cable diameter.

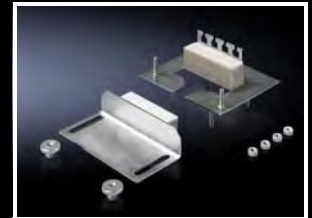
Material:

- Plastic to UL 94-HB

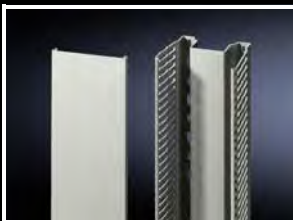
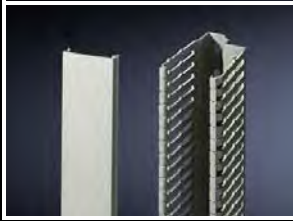
Protection category IP to IEC 60 529:

- IP 54 with installation per instructions

For hole	Sealing area inches (mm)	Packs of	Model No.
M20	0.2 – 0.6 (5 – 16)	100 pc(s).	2899.200
M25	0.2 – 0.8 (5 – 21)	50 pc(s).	2899.250
M32	0.5 – 1 (13 – 26.5)	25 pc(s).	2899.320
M40	0.5 – 1.3 (13 – 34)	20 pc(s).	2899.400



Cable Management



Cable duct

for vertical TS profile

Mounted directly on vertical TS enclosure profile.

Width 50 mm,

for mounting on a vertical enclosure profile in the side panel area.

Width 100 mm,

for mounting on two bayed enclosure profiles in the baying area. Baying brackets and quick-fit baying connectors that have already been fitted can be covered over with the cable duct.

The nominal break points of the bars are designed in combination with the cable ducts for mounting plates, and a further nominal break at the level of the mounting plate allows direct entry to the cable duct.

The cable duct fastening points are co-ordinated with the TS system hole pattern, eliminating time-consuming drilling work as would be necessary with DIN ducts.

Height inches (mm)	Width inches (mm)	Packs of	Model No.
63 (1600)	2 (50)	8 set(s)	8800.570
71 (1800)	2 (50)	8 set(s)	8800.520
63 (1600)	4 (100)	4 set(s)	8800.540
71 (1800)	4 (100)	4 set(s)	8800.510

Technical description:

- Depth: 80 mm
- Length: 1600 mm (for enclosure height 1800 mm)
1800 mm (for enclosure height 2000 mm)
Can be shortened for other enclosure dimensions
- Bar width: 5.5 mm
- Slot width: 4.5 mm

Material:

- Hard PVC
- Flame-resistant, self-extinguishing
- Temperature resistant to +140°F

Color:

- Similar to RAL 7030

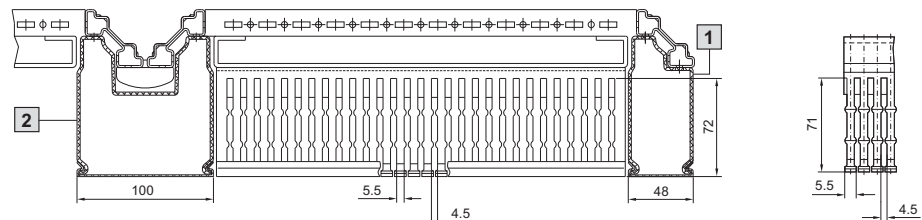
Supply includes:

- 1 set =
1 cable duct with cover



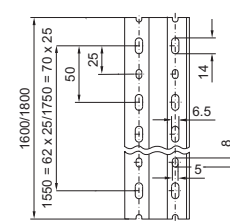
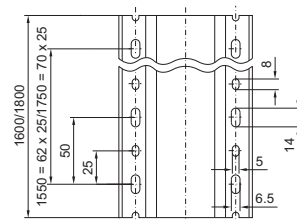
Accessories:

- Aluminum rivet for fastening, see page 573



1 8800.570/8800.520

2 8800.540/8800.510



Cable duct

for mounting plate

- Suitable for the cable ducts for vertical TS profiles
- If the TS mounting plate is installed in the rear-most position, the horizontally mounted cable ducts are flush with the vertical ones
- For external mounting on surfaces

Technical description:

- Depth: 80 mm
- Length: 2000 mm, can be cut to length
- Bar width: 5.5 mm
- Slot width: 4.5 mm

Material:

- Hard PVC
- Flame-resistant, self-extinguishing
- Temperature resistant to +140°F

For enclosure width inches (mm)		Standard length 79" (2000 mm)
Length (L) inches (mm)		
Width (B) inches (mm)	Packs of	Model No.
1.2 (30)	24 set(s)	8800.750
1.6 (40)	20 set(s)	8800.751
2.4 (60)	18 set(s)	8800.752
3.2 (80)	12 set(s)	8800.753
4 (100)	12 set(s)	8800.754

Color:

- Similar to RAL 7030

Supply includes:

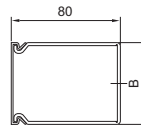
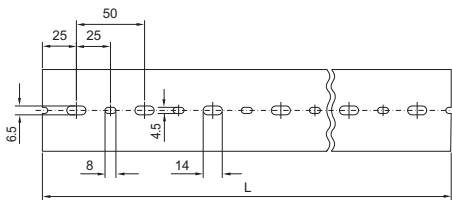
- 1 set =
1 cable duct with cover



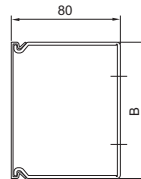
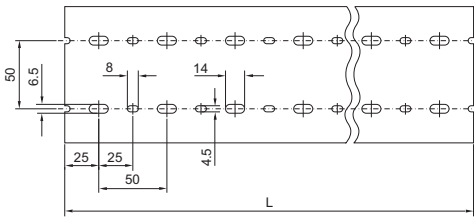
Accessories:

- Aluminum rivet for fastening, see page 573

Width 30, 40 and 60 mm



Width 80 and 100 mm



Aluminum rivet

For the secure mounting of cable ducts. Also for fastening support rails and punched rails.

Suitable for

- TS system punchings
- Holes Ø 4.5 mm

Packs of	Model No.
100 pc(s).	8800.531



Accessories:

- Cable ducts for vertical TS profile, see page 572
- Cable ducts for mounting plate, see page 573



Cable Management



Cable clamp rails

Angle profile

for TS, SE, PC, TS base/plinth, Flex-Block

Provides strain relief for cable entries. Depth-variable mounting in 25 mm hole pattern on the horizontal enclosure profile or in the TS base/plinth/Flex-Block.

Material:

- Steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Enclosure width inches (mm)	Length inches (mm)	Packs of	Model No.
16 (400)	15 (385)	2 pc(s).	4193.000
24 (600)	23 (585)	2 pc(s).	4191.000
32 (800)	31 (785)	2 pc(s).	4192.000
39 (1000)	39 (985)	2 pc(s).	4336.000
47 (1200)	47 (1185)	2 pc(s).	4196.000
63 (1600)	62 (1585)	2 pc(s).	4338.000
71 (1800)	70 (1785)	2 pc(s).	4339.000



Accessories:

- Fastening bolts for TS base/plinth, see page 430
- Quick-assembly block 4133.000 for Flex-Block, see page 536
- 23 x 23 mm punched rails for Flex-Block, see page 527



Cable clamps

for cable clamp rails

To fasten cables to cable clamp rails.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Plastic insert



For cable diameter mm	Packs of	Model No.
6 – 12	25 pc(s).	2350.000
12 – 16	25 pc(s).	2351.000
14 – 18	25 pc(s).	2352.000
18 – 22	25 pc(s).	2353.000
22 – 26	25 pc(s).	2354.000
26 – 30	25 pc(s).	2355.000
30 – 34	25 pc(s).	2356.000
34 – 38	25 pc(s).	2357.000
38 – 42	25 pc(s).	2358.000
42 – 46	25 pc(s).	2359.000
46 – 50	25 pc(s).	2360.000



Possible alternative:

- Rails for EMC cable clamp and strain relief, see page 551



Cable clamp rails

C rail, for mounting plates for TS, SE, CM, TP

Provides strain relief for cable entries.

The length of the cable clamp rail is matched to the width of the mounting plate. Three different installation scenarios are possible on the mounting plate using the mounting brackets included with the supply:

- 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 inclined, towards the mounting plate

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

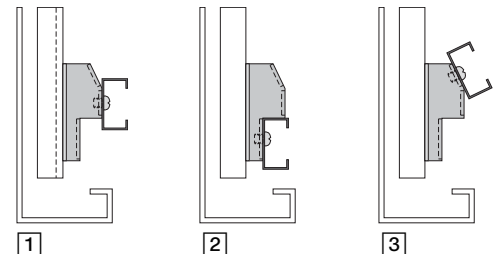
- Two mounting brackets and assembly screws

For enclosure width inches (mm)	Length inches (mm)	Packs of	Model No.
24 (600)	20 (499)	1 pc(s).	5001.080
32 (800)	28 (699)	1 pc(s).	5001.081
39 (1000)	35 (899)	1 pc(s).	5001.082
47 (1200)	43 (1099)	1 pc(s).	5001.083



Accessories:

- Cable clamps for C rails, see page 575



Cable clamping bracket

For installation in command panel with
□ 120 x 65 mm and 130 mm mounting cut-out.
Cable clamping either using

- Cable clamps
- or
- Cable ties 2597.000
- Standard cable ties

Bracket height = 25 mm with fitted C rail 40 mm

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- C rail and assembly screws

Packs of	Model No.
1 set(s)	6052.000



Accessories:

- Cable clamps, see page 575
- Cable ties, see page 576



Cable clamps

for C rails

To fasten cables to the C rails.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

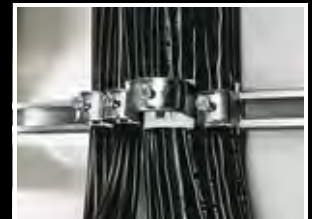
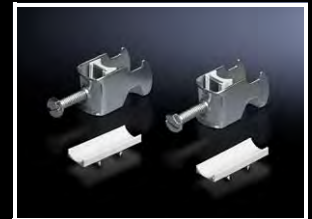
- Plastic insert

For cable diameter mm	Packs of	Model No.
6 – 14	25 pc(s).	7077.000
12 – 18	25 pc(s).	7078.000
18 – 22	25 pc(s).	7097.000
22 – 26	25 pc(s).	7097.220
26 – 30	25 pc(s).	7097.260
30 – 34	25 pc(s).	7097.300
34 – 38	25 pc(s).	7097.340
38 – 42	25 pc(s).	7098.000
42 – 56	25 pc(s).	7098.100
56 – 64	25 pc(s).	7099.000



Accessories:

- C rails, see page onwards 528



Cable conduit and cable conduit holder

For secure cable routing e.g. from the enclosure or mounting plate to the door. A fastening facility is provided on the cable conduit holder for standard, commercially available cable ties, which can fasten the cables upon entry to/exit from the cable conduit.

Material:

- Cable conduit: Polyethylene
- Cable conduit holder: Polyamide

Cable conduit

Ø internal mm	Packs of	Model No.
16	984" (25 m)	2595.000
29	984" (25 m)	2589.000
36	984" (25 m)	2596.000
48	984" (25 m)	2590.000

Cable conduit holder

For cable conduit Ø mm	Packs of	Model No.
16	20 pc(s).	2593.000 ¹⁾
29	20 pc(s).	2591.000 ¹⁾
36	20 pc(s).	2594.000
48	20 pc(s).	2592.000

¹⁾ Installation in AE compact enclosures with universal bracket 2373.000, see page 537



Cable Management



Cable attachment

For professional, secure fastening of cables and conduits.

To mount

- slide into 23 x 23 mm punched rail
- screw into round punchings in the enclosure and to all types of punched rail or chassis

Material:

- Polyamide

Note:

- The attachments can be bayed to allow several fastening attachments, even those of different sizes, to be assembled using just two screws

For cable diameter from – to mm	Packs of	Model No.
6 – 9	50 pc(s).	4319.090
9 – 12	50 pc(s).	4319.120
12 – 16	50 pc(s).	4319.160
16 – 20	50 pc(s).	4319.200



Also required:

- M5 x 12 mm countersunk screw, 2488.000, screwed to the round system punchings, see page 539



Accessories:

- 23 x 23 mm punched rail, see page 527



Cable ties

Bundles and fastens cables to the enclosure section or mounting system parts. Simply clip into the round system punchings.

Length inches (mm)	Packs of	Model No.
6 (150)	100 pc(s).	2597.000



Hook and loop fastener

The hook and loop fastener allows for easy release of secured cables and individual cables can be added or removed. Ideal for sensitive data cables (fiber optic/Cu), prevents cable sheathing indentation.

The hook and loop fastener can also be screwed to the round system punchings or attached with quick-release fasteners.

Color:

- Black

Supply includes:

- Quick-release fasteners

Width inches (mm)	Length inches (mm)	Max. cable diameter mm	Packs of	Model No.
0.8 (20)	5 (130)	30	10 pc(s).	7072.220
0.8 (20)	8 (200)	50	10 pc(s).	7072.230
0.8 (20)	12 (300)	90	10 pc(s).	7072.240



Also required:

- Sheet metal screw, 2486.500, screwed to the round system punchings, see page 539



Hook and loop strap

Provides for organized cable routing. Supplied on a reel, can be cut to the required length.

In contrast to cable ties

- protects the cable sheathing
- easy to undo
- reusable

Length inches (mm)	Width inches (mm)	Packs of	Model No.
197 (5000)	0.6 (16)	1 pc(s).	2203.400

Quarter turn hook and loop fastener

- 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 TS frame profile, on the depth stays and TS IT profile rails for 19" interior fittings, on the cable tray or system chassis
- Length of hook and loop strap: 420 mm

Material:

- Plastic

Supply includes:

- 10 holders including hook and loop tape

Packs of	Model No.
10 pc(s).	9969.599



Snap-in cable routing

for clipping into the system punchings

Universally applicable cable routing for fast, tool-free assembly.

Latches into place

- user-friendly opening for cable management using clips
- for cable diameters from 14 to 19 mm
- for 6.2 mm system punchings

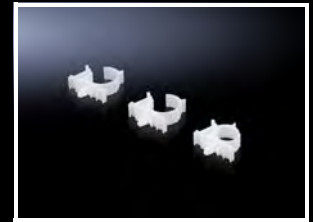
Material:

- Polyamide 6.6, self-extinguishing to UL 94-V2

Color:

- Natural

Type	Packs of	Model No.
Latches into 6.2 mm system punchings	10 pc(s).	7111.300



Cable manager

- For system-compatible cable deflection in compliance with minimum bending radii, and to accommodate surplus cables and excess length. The elements may optionally be used individually or in combination for cable routing. They can be combined to make semicircular or circular elements.
- Supports use on corners and edges to allow protected cable routing around them
- Mounting clips for use above the arc hold the routed cables back within the elements. The elements are bayable in an axial direction to allow U-based cable routing to the mounting level, or channeling of the bundled cables.

Material:

- Plastic, UL 94-V0

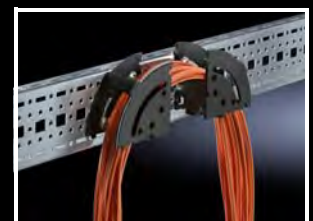
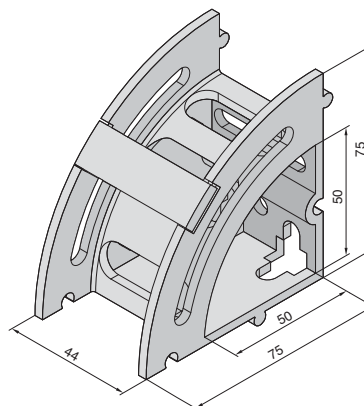
Color:

- RAL 9005

Supply includes:

- Mounting clips and assembly components

	Packs of	Model No.
Maxi kit	20 pc(s).	5502.405



Cable Management



Roof cable manager

Allows for easy cable routing outside the enclosure. Tool-free fixing to roof using 2 snap-on rings and existing cable entries on the enclosure roof. The square system punchings enables the use of cable management retaining claws and rings.

Material:

- Carbon steel

Surface finish:

- Textured paint

Color:

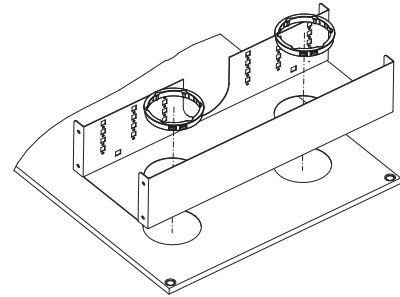
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Also required:

- End covers 9970.260, see page 578

Width inches (mm)	Packs of	Model No.
24 (600)	1 pc(s).	9970.254



Roof cable manager

Designed for the installation of a cable routing bar conductor

Allows for easy cable routing outside the enclosure. Tool-free fixing to roof using 2 snap-on rings and existing cable entries on the enclosure roof. The square system punchings enables the use of cable management retaining claws and rings. Designed for the installation of a cable routing bar conductor.

Material:

- Carbon steel

Surface finish:

- Textured paint

Color:

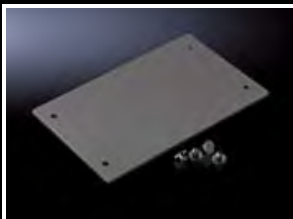
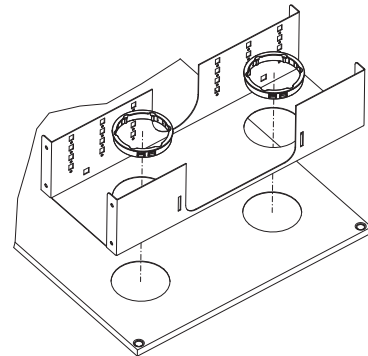
- Black



Also required:

- End covers 9970.260, see page 578

Width inches (mm)	Packs of	Model No.
28 (700)	1 pc(s).	9970.266



End covers

for roof cable manager

Tool-free fixing of end covers for roof cable manager.

Material:

- Carbon steel

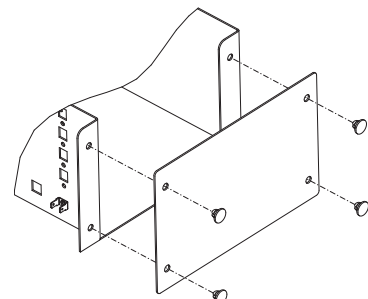
Surface finish:

- Textured paint

Color:

- Black

Packs of	Model No.
2 pc(s).	9970.260



Cable routing bracket

For flexible, system-compatible cable routing on the side of 19" (482.6 mm) profile rails.

Material:

- Steel

Surface finish:

- Zinc-plated

Supply includes:

- Mounting accessories

Dimensions inches (mm)	Packs of	Model No.
5 x 3 (125 x 85)	10 pc(s).	7111.900
5 x 3 (125 x 65)	10 pc(s).	7111.000
3 x 2 (85 x 43)	10 pc(s).	7112.000



Routing bracket

To accommodate large quantities of cables.
Routing bracket for side fastening to 19" (482.6 mm) profiles in 800 mm wide network enclosures.
The bracket is attached asymmetrically, creating approx. 110 mm of free space in front of the 19" level. This allows even large quantities of cables to be effectively managed.

Material:

- Steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Dimensions inches (mm)	Packs of	Model No.
13 x 4/3 (330 x 90/70)	4 pc(s).	7220.600



Cable management panel

for TS, TS IT

For cable management and the storage of cables in the zero-U-space. Several fastening points for cable management accessories using tool-free quick-release fastening and PDU mounting locations. The panel is securely fastened to the frame.

Material:

- Carbon steel

Surface finish:

- Textured paint

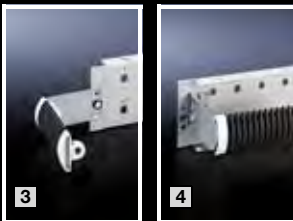
Color:

- RAL 9005

Dimensions inches (mm)	Packs of	Model No.
79 x 8.5 (2000 x 215)	10 pc(s).	9978.360
87 x 8.5 (2200 x 215)	10 pc(s).	9978.361



Cable Management



Fiber optic routing brackets

Fiber optic shunting or jumper cables can be inserted into the grooves of the inner body. A rubber ring holds different fiber optic cables with diameters of up to 4.5 mm. This ensures strain relief and bending radius.

Length: 120 mm

Material:

- Dual compound plastic

Color:

- Exterior: RAL 7035
- Interior: Black

Supply includes:

- 2 rubber bands
- Baying kit
- Mounting accessories

Mounting:

The supplied mounting brackets are suitable for universal use; the fiber-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
- 3 At the side next to the patch panel
- 4 Behind the patch panel

Packs of	Model No.
2 pc(s).	7116.500



Possible alternative:

- Fiber optic cable management panel, 1 U, see page 586



Cable route

for TS

- For cable clamping and routing for network and server applications
- Mounting across the entire depth with 800 mm width, with 600 mm width mounting only behind the second 19" level
- Tool-free quick assembly
- Alternatively suitable for screw-fastening
- Multi-functional punchings for cable management accessories

Material:

- Carbon steel

Color:

- RAL 9005

Height inches (mm)	Packs of	Model No.
79 – 87 (2000 – 2200)	1 pc(s).	5502.120



Accessories:

- Cable ties, see page 576
- Hook and loop strap, see page 576
- Routing bracket, see page 579
- Cable routing bars, see page 582

Surplus cable holder

Fastened at the rear of the enclosure, or on the side of network enclosures. The surplus cable holder can be attached to any depth stay or chassis and rails with a 25 mm hole pattern with mounting dimensions of 150 mm. Elements may also be joined together.

Material:

– Carbon steel

Color:

– RAL 7035

H x W x D inches (mm)	Packs of	Model No.
6 x 11 x 3 (151 x 280 x 75)	1 pc(s).	7220.500



Cable Management

19" cable routing



Cable routing bars

For structured routing of bundled cables. The cable routing bars may be secured in a variety of different positions inside the enclosure.

Material:

- Support: Carbon steel
- Cable routing bars, connection combs: Plastic

Color:

- RAL 9005

Supply includes:

- Cable routing bars
- Connection combs

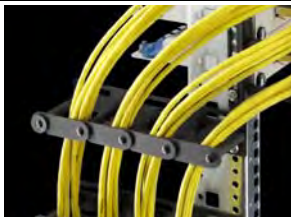


19" attachment

For horizontal cable routing within the distributor level.

Thanks to their open mounting holes, they can also be retrospectively slotted onto the 19" system punchings of the mounting level at any time and secured with the existing mounting screws of the installed components.

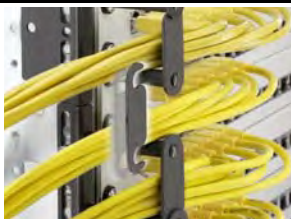
U	No. of connection combs	Packs of	Model No.
1	5 pc(s).	10 pc(s).	7111.214



All-round attachment for universal use

For vertical and horizontal cable routing inside the housing or within the distributor level.

U	No. of connection combs	Packs of	Model No.
1	5 pc(s).	10 pc(s).	7111.212



Connection comb

For connection of individual cable routing bars throughout systems (included with the supply).



Cable duct

for TS IT

- High packing density due to U-based cable routing
- Hinged on both sides, removable cable cover
- Suitable for back-to-back baying
- Tool-free quick-release fastening allows for easy installation at the front and rear of the 19" mounting profile of the TS IT
- Can optionally be screw-fastened

Material:

- Carbon steel, plastic UL 94-V0

Color:

- RAL 9005

Supply includes:

- Cover and assembly components
- 4 cable retainers for spare cables



For enclosure height inches (mm)	U	Packs of	Model No.
79 (2000)	36	1 pc(s).	5502.105
87 (2200)	42	1 pc(s).	5502.145

6 U cable finger

for TS IT

- For U-based cable routing
- Simple, tool-free assembly
- Cable routing in conjunction with air baffle plates is supported

Material:

- Plastic UL 94-V0

Color:

- RAL 9005

Packs of	Model No.
14 pc(s).	5502.115



Cable management duct, horizontal

With hinged/removable cover

Attached to the 19" (482.6 mm) level and allows for side cable routing. Available in 1 U.

Material:

- Plastic

Supply includes:

- Assembly components

Cable diameter sq. in. (mm ²)							Packs of	Model No.
0.15 (260)	0.17 (202)	0.19 (162)	0.21 (132)	0.23 (110)	0.25 (93)	0.27 (80)	2 pc(s).	9969.736



19" drawer

To accommodate surplus cables

The 1 U drawer is a convenient option for storing excess cable lengths in an organized, compact and secure way within the 19" levels.

- 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
- May be fitted between two 19" levels at a distance of 435 – 750 mm
- Independent of the enclosure system
- Can be mounted on both L and right-angled profile rails and mounting frames

Material:

- Carbon steel

Color:

- RAL 7035

Supply includes:

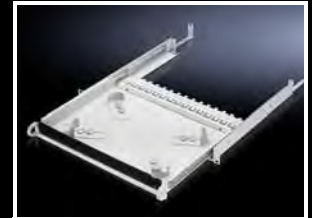
- Drawer incl. telescopic slides and assembly components

Distance between levels inches (mm)	Packs of	Model No.
17 – 30 (435 – 750)	1 pc(s).	7063.200



Accessories:

- Hook and loop fastener 7072.220/7072.230, see page 576



Cable management panel

19" (482.6 mm)

Material:

- Panel: Carbon steel, spray-finished
- Bracket: Polycarbonate

Color:

- RAL 7035

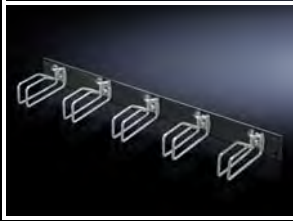
U	Bracket size inches (mm)	Packs of	Model No.
1	4 x 2 (95 x 50)	1	7255.035¹⁾

¹⁾ Cable routing brackets supplied loose



Cable Management

19" cable routing



Cable management panel

With steel brackets

For horizontal management of patch cables, with 5 cable routing brackets.

Material:

- Panel: Carbon steel
- Bracket: Steel

Surface finish:

- Brackets: Zinc-plated

U	Bracket size inches (mm)	Color		Packs of	Model No.
		RAL 7035	RAL 9005		
1	1.7 x 2.2 (43 x 55)	–	■	1 pc(s).	5502.205
1	1.7 x 4.1 (43 x 105)	■	–	1 pc(s).	7257.035
1	1.7 x 4.1 (43 x 105)	–	■	1 pc(s).	7257.005
2	2.4 x 4.9 (85 x 125)	■	–	1 pc(s).	7257.100
2	2.4 x 4.9 (85 x 125)	–	■	1 pc(s).	7257.105

Cable management bar

Tool-free installation

Adjustable bar, 15¾" to 24½", mounted on EIA rails, allows for cable routing from front to rear. Uses quarter turn cable accessories (not included) in the zero U space for a stand alone 800 mm wide or bayed 700 mm wide enclosure.

Material:

- Carbon steel

Surface finish:

- Textured paint

Color:

- Black

Packs of	Model No.
1 pc(s).	9967.364

Note:

- The optional holder in the supply can be used if other cable management accessories are used in the same U-space.

Quarter-turn cable collection

Collection claw provides for organized cable routing and can be mounted on the enclosure frame or the EIA rails.

Material:

- Plastic

Width x depth inches (mm)	Packs of	Model No.
3.00 x 4.45 (76.2 x 113)	10 pc(s).	9969.600

Quarter-turn D-ring

Provides for organized cable routing and can be mounted on the enclosure frame or on the side of EIA rails.

Material:

- Plastic

Width x depth inches (mm)	Packs of	Model No.
5.00 x 3.50 (127 x 88.9)	10 pc(s).	9961.780
3.50 x 1.75 (88.9 x 44.5)	10 pc(s).	9961.779

Cable management panel with cable routing bars

19" (482.6 mm)

For horizontal management of patch cables with cable routing bars. Opening the individual cable routing bars makes it easy to modify and extend the cabling.

Color:

RAL 9005

Material:

- Panel: Carbon steel, spray finished
- Cable routing bars: Plastic

U	Bar depth inches (mm)	Number of bars/U	Packs of	Model No.
1	approx. 3 (80)	5	1 pc(s).	5502.225



Cable management panel, 2 U

19" (482.6 mm)

The cable routing compartment is provided with cut-outs at the top, and the patch cables can be inserted here. The cable management panel is fitted with a flap and quick-release fasteners at the front, for optimum cable access. Cables can be fed in from the rear through the cut-out with brush strips.

Color:

RAL 9005

Material:

- Carbon steel

U	Bar depth inches (mm)	Packs of	Model No.
2	3 (85)	1 pc(s).	5502.235



Cable routing channel

19" (482.6 mm)

To hold patch cables.

Material:

- Carbon steel

U	Depth inches (mm)	Color		Packs of	Model No.
		RAL 7035	RAL 9005		
1	3 (85)	■	–	1 pc(s).	7149.135
1	3 (85)	–	■	1 pc(s).	5502.245



Cable Management

19" cable routing



Fiber optic cable management panel, 1U

19" (482.6 mm)

The four fiber optic cable routing brackets integrated in the front panel permit optimum management of up to 48 fibers.

Material:

- Panel: Carbon steel
- Bracket: Dual compound plastic

Color:

- Panel: RAL 7035
- Cable routing brackets on the outside: RAL 7035, black interior

U	Packs of	Model No.
1	1 pc(s).	7256.035



Possible alternative:

- Fiber optic routing bracket 7116.500, see page 580



Cable entry panel

19" (482.6 mm)

390 x 40 mm (2 U) or 390 x 20 mm (1 U) cut-out with brush insert.

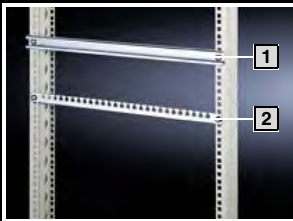
Material:

- Carbon steel

Color:

- RAL 9005

U	Packs of	Model No.
1	1 pc(s).	5502.255
2	1 pc(s).	5502.265



Cable routing on the 19" (482.6 mm) mounting level

For system-compatible cable routing on 19" (482.6 mm) assembly systems with one or two mounting levels, various cable clamping systems are available:

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

1 C rail

fastened across all 19" (482.6 mm) mounting levels, for cable clamps

C rail	Packs of	Model No.
19" (482.6 mm) level	6 pc(s).	7016.100

2 Cable clamp rails

fastened across all 19" (482.6 mm) mounting levels, for cable ties

Cable clamp rail	Packs of	Model No.
19" (482.6 mm) level	6 pc(s).	7016.110

19" installation system

Pivoting frame

Pivoting frame, small

Installation for TS, SE, 600 mm and 800 mm wide enclosures

To mount 19" (482.6 mm) equipment.

Material:

– Carbon steel

Surface finish:

– Zinc-plated

Supply includes:

– Cam with double-bit lock insert and parts for attaching to the installation kit

Technical details:

Available on the Internet



Expansion	Front, top/bottom	Set back, top/bottom	Set back/ front, center
U	Packs of	Model No.	
3	1 pc(s).	2377.030	
6	1 pc(s).	2377.060	
9	1 pc(s).	2377.090	
12	1 pc(s).	2377.120	
15	1 pc(s).	2377.150	
18	1 pc(s).	2377.180	

Also required:

1 Installation kit		For enclosure width, inches (mm)	
		24 (600)	32 (800)
		2377.860	2377.880
2 PS punched section without mounting flange, 2 or 4 pcs. required	for enclosure depth inches (mm)		Page
	16 (400)	4 pc(s).	4374.000 527
	20 (500)	4 pc(s).	4375.000 527
	24 (600)	4 pc(s).	4376.000 527
	32 (800)	4 pc(s).	4377.000 527
Support bracket 2 pcs. required per PS punched section without mounting flange		6 set(s)	8800.330 535

Accessories

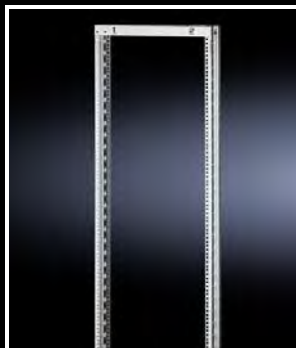
Lock inserts, version D		2484.000	488
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Note:

– The swing frame stay is required to lock the open swing frame, see page 590

19" installation system

Pivoting frame



Pivoting frame, large without trim panel, for 600 mm and 1200 mm wide enclosures

To mount 19" (482.6 mm) equipment.

Material:

– Carbon steel

Surface finish:

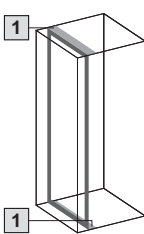
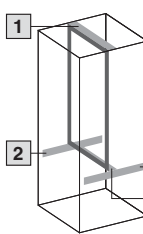
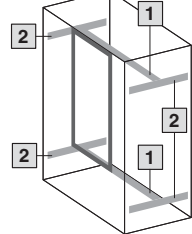
– Zinc-plated

Supply includes:

– Cam with double-bit lock insert and parts for attaching to the installation kit

Technical details:

Available on the Internet

Expansion	Full installation, front/set back	Partial installation top, front/set back	Partial installation center, front/set back
			

For enclosure width, inches (mm)			
U	For min. enclosure height, inches (mm)	Packs of	Model No.
22	47 (1200)	1 pc(s).	2322.700
31	63 (1600)	1 pc(s).	2331.700
36	71 (1800)	1 pc(s).	2336.700
40	79 (2000)	1 pc(s).	2340.700
45	87 (2200)	1 pc(s).	2345.700

Accessories			Page
Lock inserts, version D			488

Also required:

1 Installation kits					
For enclosure		Hinge	Load		Packs of
TS	SE				
■	■	130°	< 1500 N ²⁾	1994.835	–
■	■	130°	< 1500 N ²⁾	–	1996.835
■	■	130°	< 1500 N ¹⁾	–	1996.535

¹⁾ Installation only possible with the mounting plate slide rail dismantled.

²⁾ Maximum load 800 N with the TS mounting plate slide rail dismantled.

2 For TS, SE:
TS system chassis 23 x 73 mm, 2 or 4 pcs. required

Installation in enclosure depth inches (mm)	Packs of	Model No.	Page
16 (400)	4 pc(s).	8612.040 ¹⁾	522
20 (500)	4 pc(s).	8612.550	523
24 (600)	4 pc(s).	8612.560	523
32 (800)	4 pc(s).	8612.580	523
39 (1000)	4 pc(s).	8612.500	523
47 (1200)	4 pc(s).	8612.520	523

¹⁾ TS system chassis 17 x 73 mm

Note:

– The swing frame stay is required to lock the open swing frame, see page 590

19" installation system

Pivoting frame

Pivoting frame, large

with trim panel, for 800 mm wide enclosures
To mount 19" (482.6 mm) equipment.

Material:

– Carbon steel

Surface finish:

– Frame: Zinc-plated
– Panel: Spray-finished

Color:

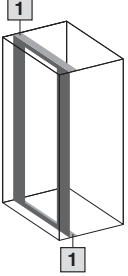
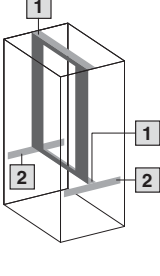
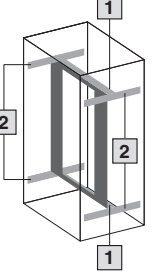
– RAL 7035



Supply includes:

– Including locking rod system with double-bit lock insert and parts for attaching to the installation kit

Technical details:

Available on the Internet

Expansion	Full installation, Width = 32" (800 mm), front/set back	Partial installation top, Width = 32" (800 mm), front/set back	Partial installation center (in the height), Width = 32" (800 mm), front/set back
			

Installation location	Side	Center
		

With hinge	130°/180°		180°
For enclosure width, inches (mm)	32 (800)		
U	For min. enclosure height inches (mm)	Packs of	Model No.
22	47 (1200)	1 pc(s).	2323.235
31	63 (1600)	1 pc(s).	2332.235
36	71 (1800)	1 pc(s).	2337.235
40	79 (2000)	1 pc(s).	2341.235
45	87 (2200)	1 pc(s).	2346.235

Heavy-duty version¹⁾

U	For enclosure height inches (mm)	Packs of	Model No.
40	79 (2000)	1 pc(s).	7858.100

Accessories

Ergoform-S Lock Systems	see page 486
Lock inserts, version A	see page 488

Also required:

1) Installation kits					
For enclosure		Hinge	Load		Packs of
TS	SE				
■	■	130°	< 1500 N ³⁾	1995.235	1 set(s)
■	■		< 1500 N ²⁾	1995.835	1 set(s)
■	■	180°	< 1200 N ³⁾	1997.235	1 set(s)
■	■		< 1200 N ²⁾	1997.835	1 set(s)

¹⁾ Load capacity 771.6 lb (350 kg), including installation kit, for enclosure height 79" (2000 mm)

²⁾ Installation only possible with the mounting plate slide rail dismantled.

³⁾ Maximum load 800 N with the TS mounting plate slide rail dismantled.

2) For TS, SE: TS system chassis 23 x 73 mm,
2 or 4 pcs. required

Installation in enclosure width/depth inches (mm)	Packs of	Model No.	Page
16 (400)	4 pc(s).	8612.140 ¹⁾	522
20 (500)	4 pc(s).	8612.550	523
24 (600)	4 pc(s).	8612.560	523
32 (800)	4 pc(s).	8612.580	523
39 (1000)	4 pc(s).	8612.500	523
47 (1200)	4 pc(s).	8612.520	523

¹⁾ TS system chassis 17 x 73 mm

Note:

– The swing frame stay is required to lock the open swing frame, see page 590



19" installation system

Pivoting frame



Compact pivoting frame

for AE

To install slide-in electronic equipment, 19" (482.6 mm), across the entire height.

Technical description:

- Torsionally stiff frame, welded from rectangular tube and triple-folded support section

Material:

- Carbon steel

Color:

- RAL 7035

Supply includes:

- Double-bit lock insert and installation accessories

Height inches (mm)	15 (380)	24 (600)	30 (760)
Width inches (mm)	24 (600)	24 (600)	24/30 (600/760)
U	6	11	14
Packs of	1 pc(s).	1 pc(s).	1 pc(s).
Model No.	2026.200	2027.200	2034.200



Accessories:

- Lock insert 41 mm, version C, see page 488

Technical details:

Available on the Internet



Swing frame stay

Holds the swing frame in the open position.

For mounting on swing frame, large:

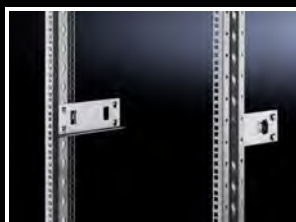
- 1979.200, at the top of the enclosure
- 1980.200, at the top of the enclosure (with safety catch at 160°)

	Packs of	Model No.
with 130° hinge	5 pc(s).	1979.200
with 180° hinge	1 pc(s).	1980.200



For mounting on swing frame, small:

- 1979.200, can be mounted at top or bottom on the installation kit



Slide rails

To support heavy slide-in electronic equipment, 19" (482.6 mm) in the swing frame.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

For slide-in equipment with max. installation depth	Packs of	Model No.
D max. < 8" (190 mm)	10 pc(s).	1962.200
D max. > 8" (190 mm)	10 pc(s).	1963.200

19" Installation System

Accessories for Data Rack

Second Mounting Level

To accommodate 482.6 mm (19") network components or to mount component shelves and slide rails. 19" (482.6 mm) profiles holes at the front, hole center-to-center spacing 465 mm, rear 470 mm, designed for the attachment of patch panels and cable routing rails. The mounting level can be positioned in the 50 mm hole pattern. Minimum clearance between levels 150 mm, maximum clearance between levels 350 mm.

Material:

- Carbon steel, 2 mm

Color:

- RAL 7035

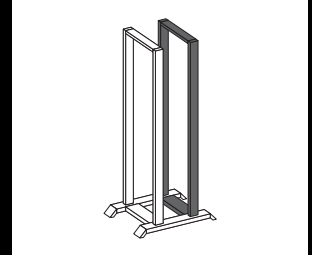
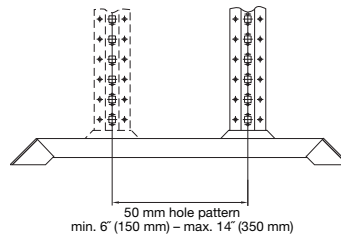
Supply includes:

- 1 torsionally stiff profile frame
- Mounting accessories

U	Packs of	Model No.
31	1 pc(s).	7296.000
36	1 pc(s).	7297.000
40	1 pc(s).	7298.000
45	1 pc(s).	7299.000

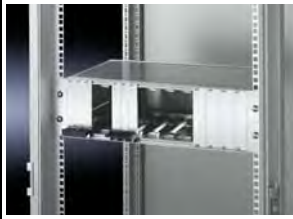
Technical details:

Available on the Internet



19" Installation System

Profile rails



Adapter profile, 19" (482.6 mm)

for TS

For the installation of subracks and other equipment.

Adapter profiles are easily shortened for partial assemblies.

Supply includes:

- Assembly components

Note:

- The 19" (482.6 mm) measurement is obtained when mounting on the TS frame for enclosures with width 600 mm



Accessories:

- Infill panels, see page 593
- Captive nuts, see page 538
- Assembly screws, see page 539
- Slide rails with one-sided mounting, see page 597
- Slide rails with two-sided mounting, see page 597
- Component shelf installation kit, see page 600

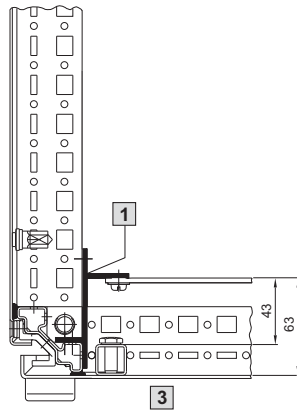
For TS enclosure system¹⁾

For enclosure height inches (mm)	Material	U	Packs of	Model No.
63 (1600)	Extruded aluminum section	33	4 pc(s).	8613.060
71 (1800)		38	4 pc(s).	8613.080
79 (2000)		42	4 pc(s).	8613.000

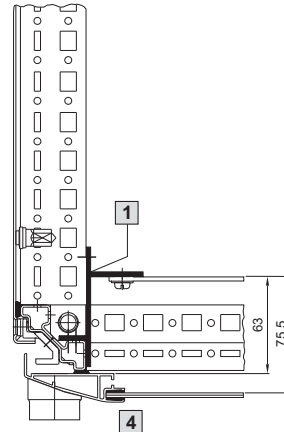
¹⁾ For rear installation in electronic enclosure, see page 593

Mounting examples for TS:

Drawing 1



Drawing 2

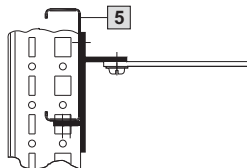


Drawing 1 and 2:

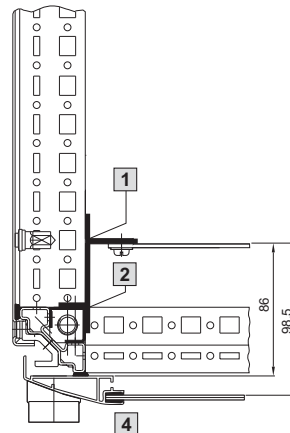
Adapter profile or adapter piece mounted in foremost installation position directly on the vertical profile.

If slide rails with two-sided mounting (see page 597) are installed, the same profiles or adapter pieces also need to be mounted at the rear on the vertical profile.

Drawing 3



Drawing 5



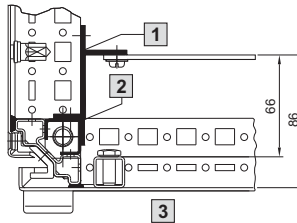
Drawing 3:

When mounted on 2 vertically installed PS punched sections, there is complete flexibility in how the enclosure depth is used.

Drawing 4 and 5:

Greater clearance to the door can be created when mounted on adapter rails for PS compatibility. In this position the slide rails can be installed with one-sided mounting.

Drawing 4



- 1 Adapter profile/piece
- 2 Adapter rail
- 3 TS carbon steel door

- 4 TS glazed door
- 5 Punched section without mounting flange

Adapter pieces, 19" (482.6 mm)

for TS, SE

"1 U" part for adapter profiles.

For the installation of individual sub racks and other equipment.

Supply includes:

- Assembly components

Mounting examples:

Can be found on page 592

Note:

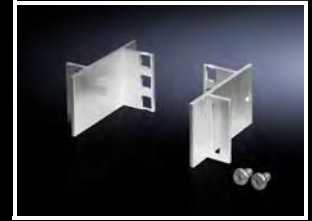
- The 19" (482.6 mm) measurement is obtained when mounting on the TS frame for enclosures with width 600 mm

U	Packs of	Model No.
1	4 pc(s).	8613.010



Accessories:

- Captive nuts, see page 538
- Assembly screws, see page 539
- Slide rails with two-sided mounting, see page 597
- Component shelf installation kit, see page 600



Adapter profile, 19" (482.6 mm)

for rear installation in TS electronic enclosures

To install sub racks on both sides, and to mount slide rails 8613.150, 8613.160 and 8613.180 (see page 597).

Mounting is on the inner mounting level.

The outer mounting level remains free, e.g. for cable routing, on TS system chassis mounted in the depth.

Material:

- Extruded aluminum section

Supply includes:

- Assembly components

Note:

- Design similar to adapter profiles, 19" (482.6 mm) (see page 592) but asymmetrical height, suitable for TS electronic enclosure

For enclosure height inches (mm)	U	Packs of	Model No.
63 (1600)	33	2 pc(s).	8613.360
79 (2000)	42	2 pc(s).	8613.300



Accessories:

- Captive nuts, see page 538
- Assembly screws, see page 539
- Slide rails with two-sided mounting, see page 597
- Component shelf installation kit, see page 600



Possible alternative:

- Adapter pieces, 19" (482.6 mm), see page 593



Infill panels, 19" (482.6 mm), horizontal

for adapter profiles

To infill between installed 19" (482.6 mm) equipment positioned in the full enclosure height and the enclosure clearance height.

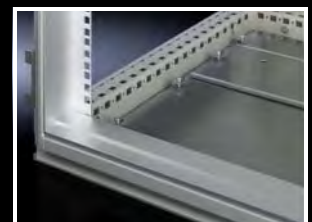
Material:

- Extruded aluminum section

Supply includes:

- Assembly components

For enclosure height inches (mm)	Packs of	Model No.
63/79 (1600/2000)	2 pc(s).	8613.040
71/87 (1800/2200)	2 pc(s).	8613.030



19" Installation System

Profile rails



Profile rails, 19" (482.6 mm)

for TS

L-shaped mounting angle

L rails accommodate the installation kits of server systems. Integrated U markings on the front facilitate systematic assembly within the 19" level.

Technical description:

- 2 mm carbon steel
- Integrated 19" (482.6 mm) punchings (EIA standard)
- Side round and square punchings
- Clear chromated for conductive connection of 19" fixtures

Supply includes:

- Assembly components

Full installation Rack height inches (mm)	U	Packs of	Model No.
71 (1800)	38	2 pc(s).	7827.181
79 (2000)	42	2 pc(s).	7827.201
87 (2200)	47	2 pc(s).	7827.221

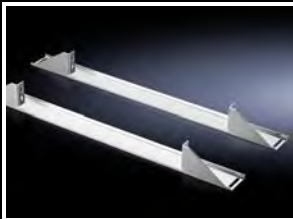


Also required:

- TS system chassis or TS installation bracket as installation kit for profile rails, see page 594
- To mount drawers:
Adapter 7827.300, see page 543

Technical details:

Available on the Internet



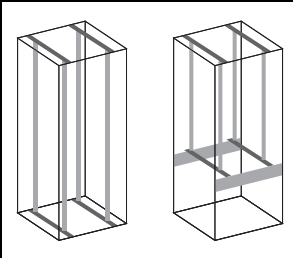
TS installation bracket

for L rails in TS, 19" (482.6 mm)

To upgrade existing DK-TS applications.

Installation in 32" (800 mm) enclosure width

The installation bracket is screw-fastened in the enclosure width on the housing frame. The profile rail is fastened to the bracket at the top and bottom. The brackets ensure optimum clearance at the sides for cable routing. For partial enclosure configuration the installation brackets can be fastened to the TS system chassis, 17 x 73 mm, on the outer mounting level of the enclosure frame. Attachment slots allow for completely depth-variable mounting.



Installation position	Packs of	Model No.
center	2 pc(s).	7827.480

Material:

- Carbon steel

Surface finish:

- Zinc-plated

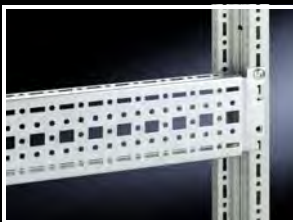
Supply includes:

- Assembly components



Accessories:

- For partial installation, TS system chassis 17 x 73 mm, see page 522 – 523
- For partial installation, L rails, see page 594



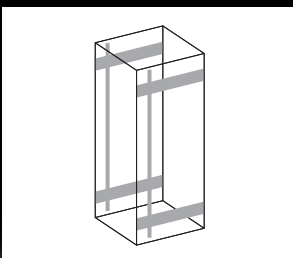
TS system chassis as installation kit

for 19" L rails, in TS 19" (482.6 mm)

To upgrade existing DK-TS applications.

Installation in 600 mm enclosure width

The installation kit consists of 4 TS system chassis 17 x 73 mm to accommodate profile rails. One pack is sufficient to configure one or two 19" mounting levels. For extremely heavy installed equipment it is advisable to use an additional system chassis in the middle.



For enclosures		Packs of	Model No.
Width inches (mm)	Depth inches (mm)		
24 (600)	24 (600)	4 pc(s).	8612.060
24 (600)	32 (800)	4 pc(s).	8612.080
24 (600)	39 (1000)	4 pc(s).	8612.000
24 (600)	47 (1200)	4 pc(s).	8612.020

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Additional attachment for profile rails

for 800 mm wide network enclosures

To upgrade existing DK-TS applications.
Additional attachment that prevents distortion of mounted profile rails in case of unevenly distributed loads. Mounted directly on 19" (482.6 mm) profile rails and on the depth-mounted system chassis (internal level).

Material:

- Carbon steel

Supply includes:

- Assembly components

Packs of	Model No.
2 pc(s).	7284.135



Also required:

- TS system chassis, for the inner mounting level, see page 522 – 523



Profile rails, 19"

for FlatBox

L-shaped bracket as 2nd mounting level.

Material:

- Carbon steel

Supply includes:

- Assembly components for fast, tool-free assembly

Note:

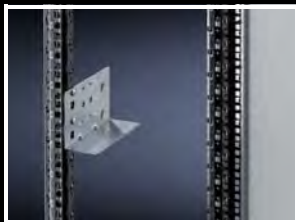
- The 2nd mounting level should always be ordered in the same height as the basic housing
- Partial expansion is not possible

U	Packs of	Model No.
6	2 pc(s).	7507.706
9	2 pc(s).	7507.709
12	2 pc(s).	7507.712
15	2 pc(s).	7507.715
18	2 pc(s).	7507.718
21	2 pc(s).	7507.721



19" Installation System

Slide rails



Slide rails, static installation

for TS IT

For mounting on a 19" mounting level.

- System punchings to mount accessories and ventilate active components

Load capacity:

- 30 kg, static

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

U	Length inches (mm)	Packs of	Model No.
2	6 (150)	2 pc(s).	5501.400



Slide rails, static installation

for TS IT

Mounted between front and rear mounting levels.

- To support heavy installed equipment
- Side system punchings to mount accessories and ventilate active components that exhaust air from the side
- Simply attach to the system punchings of the TS IT

Load capacity:

- 80 kg, static

Material:

- Carbon steel

Surface finish:

- Zinc-plated

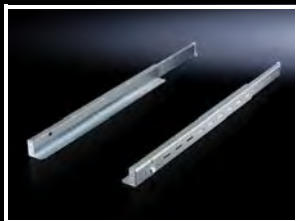
Supply includes:

- Assembly components

Note:

- Effective contact surface 35 mm per side

U	19" clearance between levels inches (mm)	Packs of	Model No.
1	14 (345)	2 pc(s).	5501.410
1	18 (445)	2 pc(s).	5501.420
1	21 (545)	2 pc(s).	5501.430
1	25 (645)	2 pc(s).	5501.440
1	29 (745)	2 pc(s).	5501.450



Slide rails, depth-variable

19" (482.6 mm)

for TS IT

Mounted between front and rear mounting levels. Side attachment to the front profile means all three mounting holes in the EIA system punchings are available for screw-fastening the equipment.

- To support heavy installed equipment
- To adapt to individual distances between levels
- Tool-free, time-saving one-person assembly from the front of the enclosure
- All three mounting holes in the EIA system punchings are available for screw-fastening the equipment
- Alternatively, direct attachment to the 19" (482.6 mm) system punchings is also possible

19" clearance between levels inches (mm)	Load capacity lb (kg)	Packs of	Model No.
16 – 24 (400 – 600)	176 (80)	2 pc(s).	5501.460
24 – 35 (600 – 900)	331 (150)	2 pc(s).	5501.480

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Note:

- Effective contact surface 25 mm per side

Slide rails

PDU button mount brackets

Enables the tool-free installation of PDUs.
Zero-U mounting of PDU is possible.

Material:

- Carbon steel

Surface finish:

- Primed

Color:

- Black

Supply includes:

- Assembly components

Description	Packs of	Model No.
Zero-U, two mounts	2 pc(s).	9971.067
Zero-U, recessed, two mounts	2 pc(s).	9963.800



Telescopic support rail

Heavy duty

This telescopic support rail is used to support heavy installed equipment. Rail length 560.5 mm when completely retracted, up to 762 mm when completely extended.

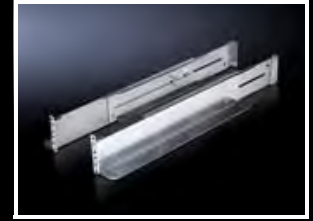
Load capacity:

- 200 lb (91 kg) per set

Supply includes:

- 2 support rails

Packs of	Model No.
2 pc(s).	9963.499



Slide rails

for TS adapter profile

With two-sided mounting between the front and rear adapter profiles, 19" (482.6 mm), or adapter pieces, 19" (482.6 mm).

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For enclosure depth inches (mm)	Packs of	Model No.
20 (500)	10 pc(s).	8613.150
24 (600)	10 pc(s).	8613.160
32 (800)	10 pc(s).	8613.180



Also required:

- Adapter profile, 19" (482.6 mm), see page 592 or
- Adapter pieces, 19" (482.6 mm), see page 593



Slide rails

for TS adapter profile

With one-sided mounting on the 19" (482.6 mm) adapter profiles.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Length inches (mm)	Packs of	Model No.
11 (270)	10 pc(s).	4531.000



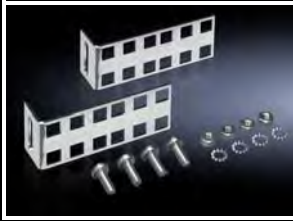
Also required:

- Adapter profile, 19" (482.6 mm), see page 592



19" Installation System

19" Fittings



Mounting kit

for 19" equipment

Facilitates fast, simple integration of additional 2 U installation space within a housing by attaching to the enclosure frame or to the existing profile rails at the sides. The flexible slot on the bracket allows you to choose the spacing between the two installation brackets so that other imperial attachment dimensions can be used. The second row of holes allows for the optional configuration of further installation areas.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Mounting accessories

U	Packs of	Model No.
2	2 pc(s).	7246.420

Adapter, 3 U

Depth offset 100 mm

The adapter to recess the 19" (482.6 mm) mounting of equipment inside housings with a 19" installation in the foremost position, e.g. for server or electronic enclosures. This ensures there is enough space in front of the equipment to integrate patch panels or switches, while utilizing the enclosure depth to the maximum.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
2 pc(s).	7246.400



Drawer, 2 U, 3 U

for 19" (482.6 mm) mounting level

Mounted on the front of profile rails, 19" (482.6 mm). With cover and telescopic slides to accommodate assignment lists, operating manuals and small parts. The small model of the 2 U version is also suitable for mounting a pivoting frame.

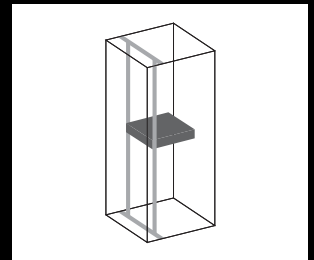
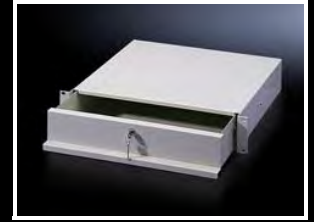
Material:

- Carbon steel

Supply includes:

- Fully assembled, incl. mounting components

Height	Clearance openings		Installation depth inches (mm)	Color		Packs of	Model No.
	Width inches (mm)	Depth inches (mm)		RAL 7035	RAL 9005		
2 U	16 (411)	17 (419)	17 (427)	■	–	1 pc(s).	7282.035
2 U	16 (411)	17 (419)	17 (427)	–	■	1 pc(s).	5502.305
3 U	16 (411)	17 (419)	17 (427)	■	–	1 pc(s).	7283.035
3 U	16 (411)	17 (419)	17 (427)	–	■	1 pc(s).	5502.325



19" Installation System

19" Fittings



Installation kit

for drawers with 19" adapter profiles in TS

Installed between the front and rear adapter profiles or adapter pieces, 19" (482.6 mm) in 600 mm wide enclosures.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For TS enclosure system

For enclosure depth inches (mm)	Packs of	Model No.
24 (600)	1 set(s)	8800.560
32 (800)	1 set(s)	8800.580

Max. depth of component shelves =
Enclosure depth - 4" (-100 mm)



Also required:

- Adapter profile, 19" (482.6 mm), see page 592 or
- Adapter pieces, 19" (482.6 mm), see page 593



Blanking plates, 19" (482.6 mm)

For installation in electronic enclosures or housings.

Material:

- Aluminum

Surface finish:

- Natural anodized

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

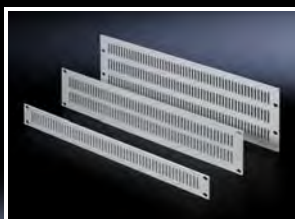
Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Packs of	Model No.
2 pc(s).	1950.000



Ventilated front panels

To ventilate enclosures and housings.

Material:

- Aluminum

Surface finish:

- Natural anodized

Width	U	Packs of	Model No.
19" (482.6 mm)	1	3 pc(s).	2231.000
19" (482.6 mm)	2	3 pc(s).	2232.000
19" (482.6 mm)	3	3 pc(s).	2233.000

Air baffle plate

for TS IT

- To separate the hot/cold zones within an enclosure with aisle containment or when using an LCP system
- With all-round brush strip for partitioning without disruption when busbar systems are installed on the outer mounting level
- Additional 6 x 1 U blanking panel included with 800 mm width

Material:

- Carbon steel, plastic UL 94-V0

Surface finish:

- Spray-finished

Color:

- RAL 9005

Supply includes:

- Assembly components

Height x width inches (mm)	Packs of	Model No.
79 x 24 (2000 x 600)	1 set(s)	5501.805
79 x 32 (2000 x 800)	1 set(s)	5501.815
87 x 24 (2200 x 600)	1 set(s)	5501.825
87 x 32 (2200 x 800)	1 set(s)	5501.835



Cover, magnetic

Covers the mounting rail hole profile and redirects air distribution. It also provides partition if cable fingers or a Dynamic Rack Control strip are not used.

Length inches (m)	Packs of	Model No.
197 (5)	1 pc(s).	5501.895



Captive nuts M5/M6

To fasten slide-in electronic equipment, 19" (482.6 mm) installed equipment and blanking plates to profile rails, 19" (482.6 mm). Used with profile plate thicknesses 0.8 – 2.0 mm. For narrow tolerance, captive nuts for profile plate thicknesses 1.2 – 1.5 mm should be used. Either with or without contacting the installed equipment with the 19" (482.6 mm) profile/housing.

Captive nut M5

Type	For plate thicknesses ga (mm)	Packs of	Model No.
With contact	20 – 14 (0.8 – 2.0)	50 pc(s).	2094.500
Without contact	20 – 14 (0.8 – 2.0)	50 pc(s).	2092.500

Captive nut M6

Type	For plate thicknesses ga (mm)	Packs of	Model No.
With contact	20 – 14 (0.8 – 2.0)	50 pc(s).	2094.200
Without contact	20 – 14 (0.8 – 2.0)	50 pc(s).	2092.200
With contact	18 – 16 (1.2 – 1.5)	50 pc(s).	2094.300
Without contact	18 – 16 (1.2 – 1.5)	50 pc(s).	2092.300



Captive nuts 10/32

Captive nut 10/32

Type	For plate thicknesses ga (mm)	Packs of	Model No.
Without contact	20 – 14 (0.8 – 2.0)	50 pc(s).	9957.324

19" Installation System

19" Fittings



Multi-tooth screws

M6 x 16 mm

For optimum transmission of torques, extended tool life and increased safety and reliability when tightening and loosening screw connections.

Supply includes:

- Plastic washers

	Bit size	Packs of	Model No.
M6	Multi-tooth 30	50 pc(s).	7094.140



Assembly screws

M5 x 16 mm/M6 x 16 mm

For slide-in electronic equipment, 19" (482.6 mm) installed components and blanking plates.

Supply includes:

- Plastic washers

Type	Packs of	Model No.
Phillips-head screw M5	50 pc(s).	7094.120
Phillips-head screw M6	50 pc(s).	7094.100



Cage nut, 19"

The screw fastening consists of an expanding nut which is inserted into the square hole at the front only and then secured with the fastening screw. When the screw is tightened the captive nut expands in this way securing the elements. Holder tightening zone 1.2 – 4.5 mm. Multi-tooth screw head, bit size T 30.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- 50 expanding nuts
- Assembly screws
- Plastic washers

Dimensions mm	Size of mounting hole mm	Packs of	Model No.
M6 x 16	9.5 x 9.5	50 pc(s).	2094.400



Spring nuts with screws

M6 x 10 mm for T-slot profile

The spring nuts ensure flexible, secure mounting of accessory components on T-slot profile rails.

Supply includes:

- 50 spring nuts
- 50 screws 10 mm, self-locking

Type	Packs of	Model No.
Phillips-head, M6	50 pc(s).	7000.990



19" Installation System

Patch panels

Tool-free snap ring

Easy mounting on roof and plates, protects cables at cable entry. Optional brush ring to block air flow.

Material:

– Plastic

Color:

– Black

Supply includes:

– 1 pack = 4 pc(s).

Description	Packs of	Model No.
Brush ring 4" (112 mm)	1 pack	9961.334
Snap-on ring grommet	1 pack	9961.326



Blanking panel, 19" (482.6 mm)

As a reserve panel cover or any configuration as required.

Material:

– Carbon steel

Color:

– RAL 7035

U	Installation height inches (mm)	Packs of	Model No.
1	2 (44)	2 pc(s).	7151.035
2	4 (88)	2 pc(s).	7152.035
3	5 (132.5)	2 pc(s).	7153.035
6	10 (266)	2 pc(s).	7156.035



Blanking panel

Tool-free attachment 19" (482.6 mm)

Blanking panel is installed to block the air flow in unused or unoccupied spaces. Can be fitted without tools or additional assembly components.

Surface finish:

– Sand texture

Color:

– Black

U	Material	Packs of	Model No.
1	Plastic	12	9960.676
1	Metal	10	9970.016
3	Metal	5	9970.017



Blanking panel, 1 U

Tool-free attachment, 19" (482.6 mm)

The blanking panel is used to cover unused areas within the 19" (482.6 mm) mounting level. Tool-free quick-release fastening allows for easy installation in any location, and removal if necessary. The consistent use of blanking panels ensures targeted ventilation in partially occupied racks.

Color:

– RAL 7035

Material:

– Plastic, ABS

Fire behavior:

– Self-extinguishing to UL 94-V0, not halogen-free

Packs of	Model No.
10 pc(s).	7151.110



19" Installation System

Splicing boxes



Fiber optic splicing box with telescopic pull-out

Lockable

The 19" (482.6 mm) splicing box is used to hold splicing cassettes and can be installed in any network distributor within the 19" (482.6 mm) rail and can be used as a fiber optic end closure or distributor. Telescopic pull-out provides easy access to the splicing cassettes and the cable clamping. The variable cassette accommodates the twist-proof installation of all standard splicing cassettes. The security lock on the front provides protection from unauthorized access. The rear part of the splicing box is left completely open for cable routing, with a rubber clamping profile that provides protection from the ingress of dust. The fiber optic cables can be secured using cable ties or cable clamps, two strain relief clamps and the cable routing clips for the fiber dispenser provide a system-compatible solution for all fiber optic cabling.

U	Maximum no. of splicing cassettes	Packs of	Model No.
1	2	1 pc(s).	7170.535

Installation depth:

- 363 mm

Material:

- Carbon steel

Color:

- RAL 7035

Supply includes:

- Splicing box
- Cable routing clips
- Security lock
- Box type plug-in unit cover
- Mounting accessories for patch panel

Note:

- Supplied without patch panels and splicing cassettes



Patch panels

for fiber optic splicing box, lockable

Panels for the splicing boxes for the installation of single or duplex fiber optic couplings.

Material:

- Carbon steel

Color:

- RAL 7035

For coupling	Number of locations	U	Packs of	Model No.
E-2000, SC, LC Single or duplex	20	1	1 pc(s).	7178.535

Handle set

for Comfort Panel

Mounted on corner pieces, also suitable for retrofitting.

Material:

- Handle tube: Aluminum
- Handle holder: Die-cast zinc
- Covers: Polyamide

Surface finish:

- Handle tube: Natural anodized
- Handle holder: Powder-coated

Color:

- Handle holder: RAL 7024
- Covers: Similar to RAL 7024

Supply includes:

- Handle tube, Ø 20 mm
- 2 handle holders
- 2 covers
- Assembly components

For horizontal mounting

With front panel width	Packs of	Model No.
19" (482.6 mm)	1 set(s)	6375.010

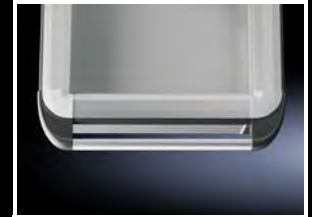
Note:

- 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 607
- Display board, see page 607



Handle set

For vertical and horizontal mounting on all surfaces.

Total length: 420 mm

Material:

- Handle tube: Aluminum
- Tube holder: Die-cast zinc

Surface finish:

- Handle tube: Natural anodized

Color:

- Tube holder: RAL 7035

Supply includes:

- 4 tube holders
- 2 handle tubes

Packs of	Model No.
1 set(s)	2389.000



Accessories:

- Clipboard, see page 607
- Display board, see page 607



TP aluminum strip

For retrofitting to

- TP three-piece/two-piece
- TP one-piece console
- All enclosures/covers with 20 mm folded edge height (plate thickness max. 2 mm)

Length: 1750 mm

(easily cut to length for other dimensions)

Sufficient for desk units and top pieces:

- 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 inches (mm)	Model No.
69 (1750)	6731.120

Material:

- Aluminum strip: Extruded aluminum section
- Cover caps: Plastic

Surface finish:

- Aluminum strip: Natural anodized

Color:

- Cover caps: RAL 7035

Supply includes:

- 1 aluminum section
- 6 plastic cover caps
- Drilling template
- Mounting accessories



Handles

Handles

For horizontal or vertical attachment to the housing panels of

- Comfort Panel
- Other housings or
- Surfaces

Mounting holes and a smooth surface are required for installation.

The surface can be milled for the Comfort Panel with ribbed surface, which can be selected using configurators on the Rittal web pages. In this case, please indicate "prepared for 6107.XXX handle set" for the command panel.

Material:

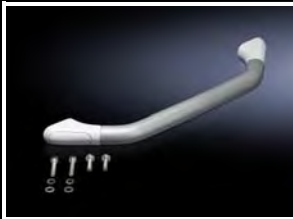
- Handle holder: Die-cast zinc
- Cover bungs: Plastic
- Handle tube: Aluminum

Surface finish:

- Handle tube: Powder-coated

Color:

- Handle holder: RAL 7035
- Cover bungs: Similar to RAL 7035
- Handle tube: Similar to RAL 9006

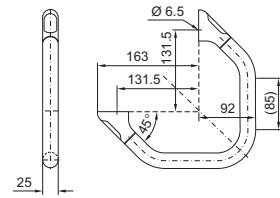


Corner handle

Supply includes:

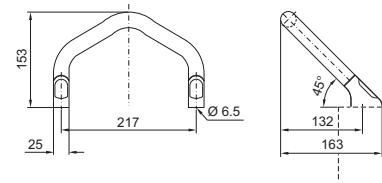
- 4 handle holders
- 2 handle tubes
- Assembly components

Mounted to corner of housing



Packs of	Model No.
1 set(s)	6107.000

Mounted on straight surface
(Handle holder turned through 90°)



U handle

Supply includes:

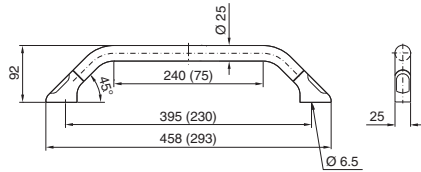
- 2 handle holders
- 1 handle holder
- Assembly components

For front panel dimensioning	Packs of	Model No.
≥ 7 U	1 set(s)	6107.100
19" (482.6 mm)	1 set(s)	6107.200



Accessories:

- For 6107.200: Clipboard, see page 607
- For 6107.200: Display board, see page 607



Note:

- Dimensions in brackets for front dimensioning 7 U

External mounting accessories

Clipboard

To hold operating instructions or plans (A4 size) at eye level.

Prepared for mounting on the right side, can be switched to the left by unscrewing the clamping piece.

A straight length of tube ≥ 200 mm, $\varnothing 20$ mm or $\varnothing 25$ mm is required for mounting.

Material:

- Clipboard: Carbon steel
- Clip: Aluminum

Surface finish:

- Clip: Natural anodized

Color:

- RAL 7035

Height inches (mm)	Width inches (mm)	Packs of	Model No.
12 (315)	9 (225)	1 pc(s).	6013.000



Also required:

- Handle set 2389.000, see page 605
or
- Handle set for Comfort Panel, see page 605
or
- U handle 6107.200, see page 606



Display board

with wall bracket

To hold test plans, documents etc. in A4 format.

Mounting

- On surfaces
- In the 25 mm TS frame or rail system hole pattern
- On the $\varnothing 20$ mm or $\varnothing 25$ mm handle set

Supply includes:

- Display Boards
- Wall Bracket
- Assembly components

Packs of	Model No.
1 set(s)	6013.100



Accessories:

- Handle set 2389.000, see page 605
or
- Handle set for Comfort Panel, see page 605
or
- U handle 6107.200, see page 606



Housing surface connector

To accommodate keyboard rest (2383.000, see page 612).

Material:

- Surface connector: Extruded aluminum section
- Side cover: Carbon steel

Surface finish:

- Surface connector: Natural anodized

Color:

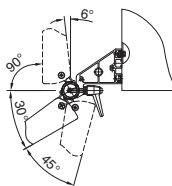
- RAL 7024

Supply includes:

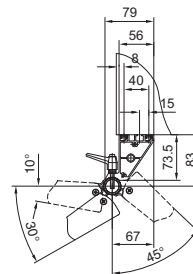
- Assembly components

Packs of	Model No.
1 set(s)	2383.010

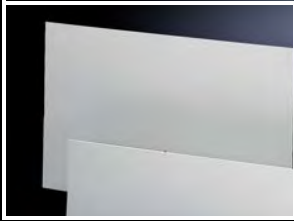
Mounting
on surfaces



Mounting
underneath surfaces



Front fittings



Front panels for Comfort Panel

Material:

- Aluminum, 3 mm

Surface finish:

- Natural anodized

Note:

- Mounting kits included in the supply of 520 mm wide standard housings.

With mounting hole

Height inches (mm)	Width inches (mm)	U	Model No.
6 (155.0)	19 (482.6)	3.5	6027.000
12 (310.3)	19 (482.6)	7	6028.000

With threaded bolts M5

Height inches (mm)	Width inches (mm)	U	Model No.
6 (155.0)	19 (482.6)	3.5	6027.010
12 (310.3)	19 (482.6)	7	6028.010
14 (355.6)	18 (457.2)	–	8015.416
16 (400)	20 (520)	–	6028.014
20 (500)	20 (520)	–	6028.015
24 (600)	20 (520)	–	6028.016



Also required:

- Mounting kit for Comfort Panel 6053.800, see page 609



Cover plate

for support arm connection

To securely lock an unused support arm connection in the housing.

Material:

- Carbon steel

Supply includes:

- Seal and assembly components

Note:

- For Comfort Panels where (2) support arm cut-outs are provided, a cover plate is included in the supply of the housing.

Support arm connection	Surface finish	Model No.
□ 90 x 71 mm	Spray-finished RAL 7024	6505.200
Ø 130 mm	Zinc-plated, clear-chromated	6505.500
□ 120 x 65 mm	Zinc-plated, clear-chromated	6505.100

Mounting kit

for Comfort Panel

For the installation of aluminum front panels, command panels and keyboards.

Supply includes:

- 6058.800, 6053.800:
20 each of retaining claws, captive nuts, screws, nuts and sealing washers
- 6053.300:
8 medium retaining claws, 8 short retaining claws, 4 long retaining claws

1 6058.800, 6053.800

2 6053.300

For drilled holes/bolts/front panel mounting from behind

Thread	Model No.
M4	6058.800
M5	6053.800

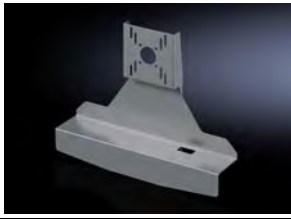
For screw clamp

For the installation of	Model No.
Siemens Sinumerik: OP 010, OP 010 C, OP 012, OP 015, OP 015 A, OP 019, MCP 483 C, MCP 483, PP 012, PP 012 extension, MCP, KB 483 C, Qwerty 19"	6053.300
Siemens Simatic: TP 900 Comfort, KP 900 Comfort, TP 1200 Comfort, KP 1200 Comfort, KTP 1000 Basic, KTP 1500 Basic	
Panel PC 477C, 577C, 677C: 12.1"-Key, 12.1"-Touch, 15.1"-Key, 15.1"-Touch, 19"-Touch, 22"-Touch ¹⁾	
MP 377 12"-Touch, MP 377 15"-Touch, MP 377 19"-Touch	
Industrial Flat Panel: IFP 1200 Touch, IFP 1500 Touch, IFP 1200 Key, IFP 1500 Key, IFP 1900 Touch, IFP 2200 Touch	
Industrial Thin Client: ITC 1200, ITC 1500, ITC 1900, ITC 2200	
B & R: Automation Panel, Panel PC	

¹⁾ 2 packs are required



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 131
- Attachment CP 60 for support arm connection
□ 120 x 65 mm, 6206.360, see page 139
- Vertical support arm via +100°/-60° tilting adapter, 6206.460, see page 139

Material:

- Carbon steel

Surface finish:

- Spray-finished

Color:

- RAL 7024

Dimensions inches (mm)	Packs of	Model No.
15 x 19 x 4 (372 x 477 x 110.5)	1 pc(s).	2383.030

Technical details:

Available on the Internet



Keyboard, pull-out

with integral trackball

Super-slimline keyboard with cursor keys and trackball. The handle also acts as a hand rest. At a 10° angle for good ergonomics when typing.

For installation in

- All sufficiently large surfaces (e.g. door, side panel)
- Front panels
- Directly in Comfort Panels of appropriate size, can be selected using the configurator on the Rittal web pages

Technical specifications:

Keyboard:

- 84 short-stroke keys, IBM-AT compatible (MF2), incl. cursor keys
- With integral 16 mm trackball
- Interface: 2 x USB
- Operating temperature: +41°F...+122°F
- Storage temperature: +14°F...+140°F
- Relative humidity: max. 95 % (no condensation)

Keyboard layout	Packs of	Model No.
German	1 pc(s).	6002.130

Material:

- Carbon steel

Surface finish:

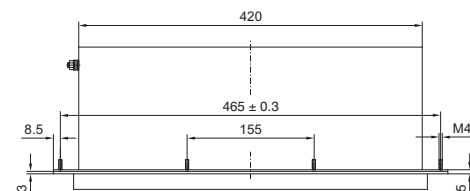
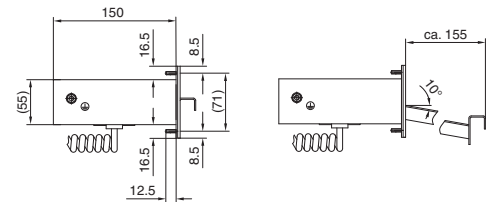
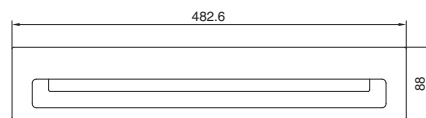
- Front panel: Powder-coated

Color:

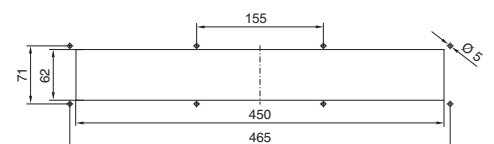
- RAL 7035

Protection category IP to IEC 60 529:

- IP 65 (at front, closed)



Mounting cut-out



Built-in keyboard 19" 4 U

with integral touchpad

The integral touchpad means there is no need to install a mouse in the correct protection category, and cabling is also reduced. The short-stroke keys are easy to locate thanks to raised edges, are operated with a light touch and give good, tactile feedback.

Advantages:

- 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
- Dimensions of front panel: 19" x 4 U (482.6 x 177.0 mm)
- Installation depth: 23 mm
- 12 rear threaded bolts M5 x 20
- Actuator travel/actuating force: 0.3 mm/2.6 N
- Service life: 3 million switching cycles
- Operating temperature: -40°F...194°F
- Resolution of touchpad, capacitive: 40 pixels/mm
- Interfaces: USB

Material:

- Front panel: Aluminum

Protection category IP to IEC 60 529:

- IP 65 (at front)

Supply includes:

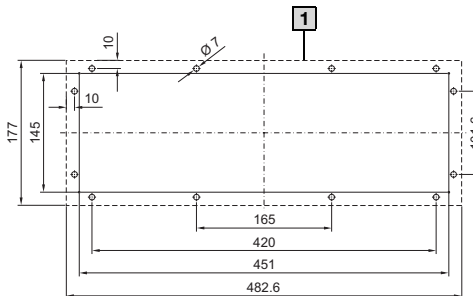
- USB connection cable, length 1800 mm
- Seal
- Drilling template
- Assembly components for surfaces

Keyboard layout	Packs of	Model No.
German	1 pc(s).	6446.030



Also required:

- Mounting kit 6053.800 (for installation in Comfort Panel), see page 609



1 Contact surface



Fold-out tray

for keyboard and mouse

For installation in

- 600 and 800 mm wide doors
- 19" swing frames and enclosures

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, see page 488 and lock cylinder SZ 2571.000, see page 489

Material:

- Flap: Carbon steel
- Side parts: Cast aluminum
- Tray: Extruded aluminum section

Surface finish:

- Flap, side parts: Textured paint
- Tray: Natural anodized

Color:

- Flap, side parts: RAL 7035

Protection category:

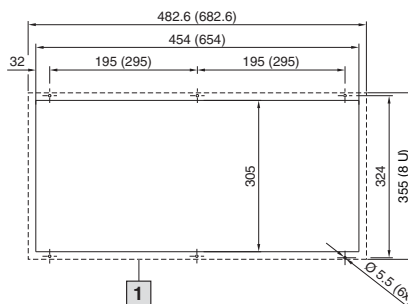
- IP 55 to EN 60 529



Accessories:

- Support for mouse pad, pull-out, see page 612

Mounting cut-out



1 Contact surface



For door width inches (mm)	External dimensions H x W x D inches (mm)	Installation depth inches (mm)	Max. keyboard size H x W x D inches (mm)	Model No.
24 (600)	14 x 19 x 5 (355/8 U x 482.6 x 126)	4 (93)	2 x 16 x 10 (50 x 405 x 250) 2 x 16 x 8 (50 x 405 x 195) ¹⁾	2379.600
32 (800)	14 x 27 x 5 (355/8 U x 682.6 x 126)	4 (93)	2 x 24 x 10 (50 x 605 x 250) 2 x 24 x 8 (50 x 605 x 195) ¹⁾ 2 x 19 x 10 (50 x 475 ¹⁾ x 250)	2379.800

¹⁾ Max. keyboard size with holder for mouse

Keyboards, Supports and Drawers



Support for mouse pad, pull-out

with mouse holder

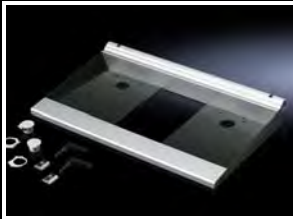
Screw-fastened to the fold-out tray 2379.600/2379.800, see page 611.

To fit all standard mouse pads up to 250 x 205 mm.

Supply includes:

- Assembly components

Packs of	Model No.
1 set(s)	2379.900



Support

for keyboards

up to max. 473 x 210 mm.

Prepared for

- Cable gland
- Support for mouse pad, swivel 2383.020

Material:

- Side parts: Carbon steel
- Front and rear: Extruded aluminum section

Surface finish:

- Side parts: Textured paint
- Front and rear: Natural anodized

Color:

- Side parts: RAL 7024

Supply includes:

- 2 clamping levers, end stoppers, cover plate, cable entry grommet and Hook and loop strap

Packs of	Model No.
1 set(s)	2383.000



Also required:

- For installation on surfaces using housing surface connector, see page 607



Accessories:

- Support for mouse pad, swivel, see page 616



Utility bars, swivel

To support standard keyboards during programming and servicing work.

Rest requires mounting clearance of at least 300 mm to allow it to pivot freely.

Sufficient depth for keyboards up to max. 210 mm.

For mounting below

- Comfort Panel¹⁾
- Sufficiently large surfaces, e.g.:
 - Worktops IW
 - Command Panel with Handle Strips

on

- Vertical surfaces (doors/side panels)

Min. front panel width

¹⁾ 385 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.
1 set(s)	6514.200

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components



Drawer 19 1/2 U for keyboard and mouse

For installation in

- All sufficiently large surfaces (e.g. door, side panel)
- 19" hole profile
- Front panels
- Directly in Comfort Panels of appropriate size, can be selected using the configurator on the Rittal web pages

Suitable for

- Accommodating keyboards up to max. 32 x 390 x 139 mm
- Support for conventional mouse or trackball

Version:

- Drawer: With stay
- Front panel: With security lock (lock no. 12321) and handle strip

Width inches (mm)	U	Depth inches (mm)	Model No.
19" (482.6)	2	6 (150)	6002.000

Material:

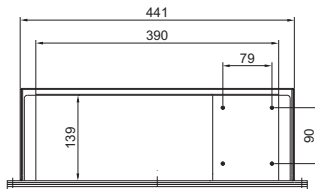
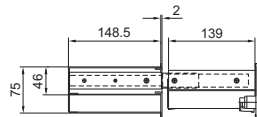
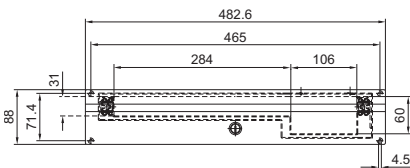
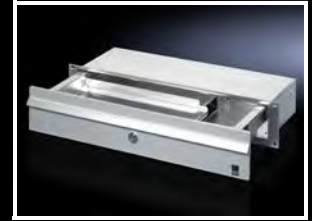
- Drawer housing: Carbon steel
- Drawer and front panel: Aluminum

Surface finish:

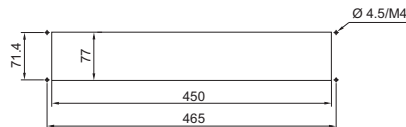
- Drawer housing: Zinc-plated
- Drawer and front panel: Natural anodized

Supply includes:

- Assembly components for installation in Comfort Panel command panel



Mounting cut-out
(for installation in surfaces)



Keyboards, Supports and Drawers



Drawer for keyboard and mouse

with mouse pad support

For installation in

- All sufficiently large surfaces (e.g. door, side panel)
- Front panels

Suitable for accommodating

- Keyboards up to max. 42 x 460 x 170 mm
- Standard mouse and mouse pad

Version:

- Drawer and housing: With side pull-out mouse pad support and tray
- Front panel: With 3 mm double-bit lock insert, folds out as handrest

Width inches (mm)	U	Depth inches (mm)	Model No.
19" (482.6)	3.5	10 (261)	6003.000

Material:

- Drawer and enclosure: Carbon steel
- Front panel: Aluminum

Surface finish:

- Drawer and enclosure: Textured paint
- Front panel: Natural anodized

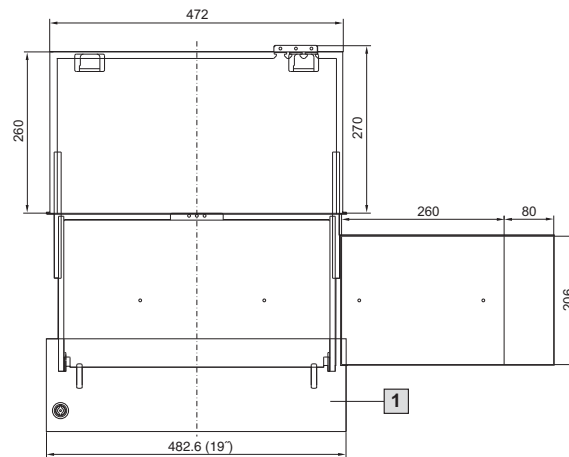
Supply includes:

- Assembly components

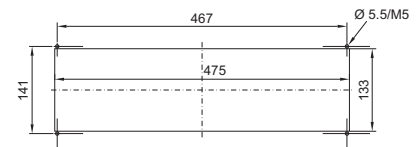


Accessories:

- Standard double-bit lock insert may be exchanged for 27 mm lock insert, type A, see page 488



Mounting cut-out
for installation in surfaces



1 Front trim panel



Keyboard drawer 1 U

for 19" (482.6 mm) mounting level

The space-saving keyboard drawer is screw-fastened to the front and rear 19" (482.6 mm) mounting level. The installation clearance is infinitely variable in the range between 460 – 800 mm. It is fully extendible and lockable, with strain relief and hinged cable support.

The drawer is suitable for accommodating 19" (482.6 mm) keyboards.

Interior dimensions:

- H x W x D approx. 40 x 420 x 220 mm

Material:

- Carbon steel

Color:

- RAL 7035

Supply includes:

- Assembly components, without keyboard

Note:

- Monitor/keyboard unit, 1 U, see page 377

Distance between levels inches (mm)	Model No.
18 – 32 (460 – 800)	7281.200

Keyboard drawer 2 U

for a 19" (482.6 mm) mounting level

For keyboards up to 430 mm wide and 250 mm deep when front panel is folded up.

Material:

- Carbon steel with aluminum front

Surface finish:

- Spray-finished

Color:

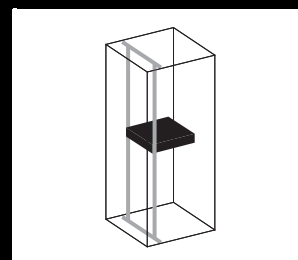
- RAL 7035

Supply includes:

- Lockable drawer with handles
- Folding front
- Pull-out mouse pad
- Mouse support
- Practical cable entry
- And strain relief

Height	Packs of	Model No.
2 U	1 pc(s).	7281.035

Installation depth: 390 mm



Support for mouse pad

for command panels and surfaces

The angle of the rest can be individually adjusted. Two mounting holes are required for mounting on the housing.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Weight lb (kg)	Packs of	Model No.
2 (1.0)	1 pc(s).	2381.000



Accessories:

- Support for mouse, see page 616



Keyboards, Supports and Drawers



Support for mouse pad, swivel

Mounted on the left/right below the keyboard rest. Latches in place automatically, both when retracted and extended. With mounting holes for mouse holder 2382.000.

With cut-outs for cable entry and holes for quick mounting with cable ties 2597.000.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

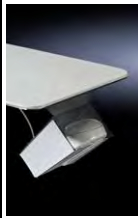
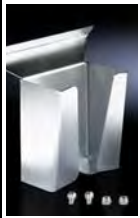
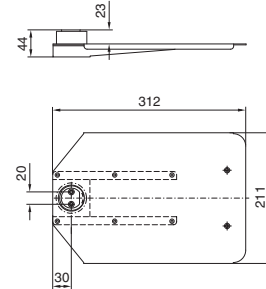
- Assembly components and mouse pad, stuck on with adhesive

Packs of	Model No.
1 pc(s).	2383.020



Accessories:

- Support for mouse, see page 616
- Cable tie, see page 576



Mouse holder

To fit mouse pad rest, holds a standard mouse securely.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

Weight lb (kg)	Packs of	Model No.
0.7 (0.3)	1 pc(s).	2382.000



Also required:

- Support for mouse pad, see page 615
- or
- Support for mouse pad, swivel, see page 616

Interface extension with wall connection and RJ 45 built-in module

To extend the internal housing interfaces – e.g. from industrial PCs and switches – to the outside of the enclosure. The wall connection only takes up as much space as a switch.

Advantages:

- Rapid access for maintenance work
- The protection category of the enclosure is preserved
- The lock nut cuts automatically into the spray-finish or anodized layer, thereby creating a conductive connection
- Captive protective cap

Material:

- Housing: Brass
- Cover: Aluminum
- Seal: Polyamide

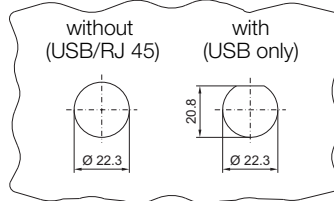
Surface finish:

- Housing: Nickel-plated
- Cover: Natural anodized

Protection category IP to IEC 60 529:

- IP 66/67 (with cover closed)

Anti-twist guard



Material thickness: 1 – 6 mm



Version	Wall connection	Inside	Length inches (mm)	Packs of	Model No.
USB	Socket version A	Connector version A	20 (500)	1 pc(s).	2482.210
			39 (1000)	1 pc(s).	2482.220
			79 (2000)	1 pc(s).	2482.230
RJ 45	Socket	Connector	20 (500)	1 pc(s).	2482.700
			39 (1000)	1 pc(s).	2482.710
			79 (2000)	1 pc(s).	2482.720
RJ 45	Socket	Socket	–	1 pc(s).	2482.730



Interface flaps, modular

For universal use where rapid access to interfaces and outlets is needed. The housing remains closed, protecting it from environmental effects and unauthorized access.

Space-saving installation, e.g.

- In **small housings and compact enclosures** as a programming interface for controls
- In **IT and industrial distributors** to provide maintenance access for networks
- In **PC enclosures and console systems** to temporarily connect auxiliary devices
- In mobile **industrial workstations** for quick connection to existing network structures
- In **command panel systems** for the programming and maintenance of integrated components.

The cover on the mounting frame can be opened at various angles from 90° to 180°. The snap fit closure ensures a good seal. The cover can be locked if necessary.

Material:

- Mounting frame and metal flap: Fine die-cast zinc
- Plastic flap: Polycarbonate (semi-transparent)
- Lock: Polycarbonate, RAL 7024

Surface finish:

- Mounting frame and metal flap: Matt nickel-plated

Color:

- Lock: RAL 7024

Protection category IP to IEC 60 529:

- IP 65 (with cover closed and correct installation)

Description	cUL	UL	Packs of	Model No.
Mounting frame¹⁾				
[1] Single, with plastic flap (semi-transparent)			1 pc(s).	2482.300
Double, with plastic flap (semi-transparent)			1 pc(s).	2482.310
[2] Single, with metal flap	■	■	1 pc(s).	2482.320
[3] Double, with metal flap	■	■	1 pc(s).	2482.330
Socket modules				
[4] Germany (VDE), screw terminals max. 2 x 2.5 mm ² , connection at rear			1 pc(s).	2482.400³⁾
[5] Germany (VDE), screw terminals max. 6 mm ² , connection at rear, color: yellow (RAL 1016), for installation in front of main switch			1 pc(s).	2482.410³⁾
USA NEMA 5-15, insert component for connection to 0.2" x 0.03" (4.8 x 0.8 mm)	■	■	1 pc(s).	2482.420⁴⁾
Interface inserts				
[6] 2 x SUB-D9 (jack/pin)	■	■	1 pc(s).	2482.500
[7] SUB-D9 (jack/jack)	■	■	1 pc(s).	2482.510
[8] 2 x USB A (jack/jack)	■	■	1 pc(s).	2482.540²⁾
[9] RJ 45 (jack/jack, Cat. 5e), SUB-D9 (jack/jack), SUB-D9 (pin/pin)	■	■	1 pc(s).	2482.550
[10] 2 x RJ 45 (jack/jack, Cat. 5e)	■	■	1 pc(s).	2482.560²⁾
[11] USB A (jack/jack), RJ 45 (jack/jack, Cat. 5e), SUB-D9 (jack/pin)	■	■	1 pc(s).	2482.570²⁾
[12] Blanking plate (slimline), for individual population, usable area: 3 x 1.8" (75 x 45 mm)	■	■	1 pc(s).	2482.590

¹⁾ Electrically conductive

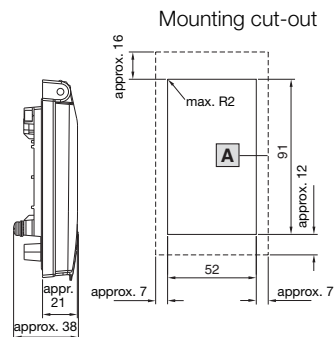
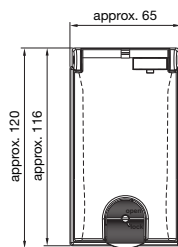
²⁾ Conductively connected to mounting frame

³⁾ Rated voltage: 250 V, rated current: 10 – 16 A

⁴⁾ Rated voltage: 125 V AC, rated current: 15 A (2482.420)

All SUB-D interfaces can be turned in the insert

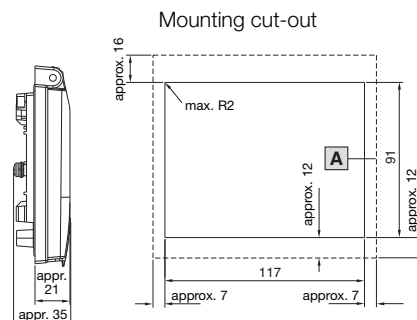
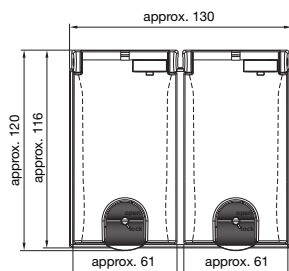
Single interface flap



Permitted material thickness:
1 – 5 mm

A Contact surface

Double interface flap



Signal Pillars, LED Compact

Advantages:

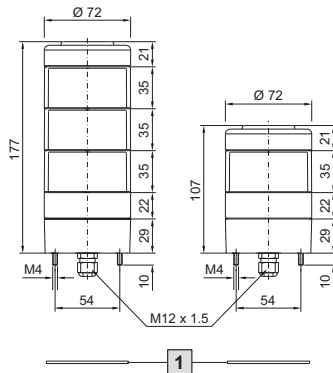
- Complete, ready-to-connect solution
- Minimal build height
- Extremely long service life of the LEDs (at least 70,000 h), therefore maintenance-free
- Minimal assembly work and warehousing costs

Technical specifications:

- Operating voltage: 24 V AC/DC
- Electrical connection: Screw terminals
- Light (bulb): LED
- Angle of reflected beam: 3 x 120°
- Operating temperature: -4°F...158°F
- Flashing function: PLC controllable
- Cable entry: Metric cable gland M12 x 1.5 for cable diameter 3.0 – 6.5 mm

Protection category IP to IEC 60 529:

- IP 65



1 Seal

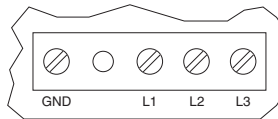
Version	Packs of	H inches (mm)	Model No.
3-stage, red, yellow, green	1 pc(s).	7 (177)	2372.100
1-stage, red	1 pc(s).	4 (107)	2372.130



Also required:

- For wall mounting: Bracket for wall mounting, see page 620
- For conduit mounting/support arm systems: Connection adapter, see page 619
- Other mounting components, see page 620/621

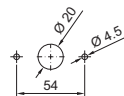
Connection diagram 2372.100/.130



GND – 0 V (Ground)

L1 – L3 – +24 V (DC) (LED light levels, from bottom to top, contacts that are not required remain free)

Mounting cut-out



Connection Adapters

for signal pillar, LED compact

For conduit mounting and mounting on support arm systems.

Material:

- Plastic

Color:

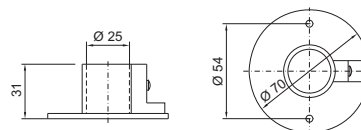
- Black

Packs of	Model No.
1 pc(s).	2372.120



Accessories:

- Mounting components for conduit mounting, see page 621
- Mounting components for support arm systems, see page 620

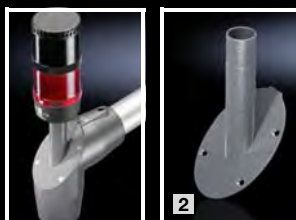
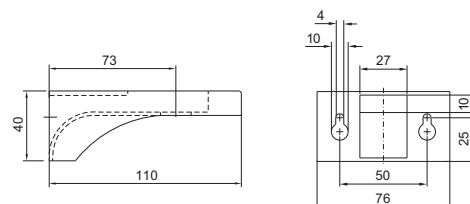




Mounting Components for wall/base mounting

Fig.	Mounting component	Color	Suitable for LED compact	Model No.
1	Bracket for wall mounting including rubber gland for concealed cable routing	black	■	2372.110

Bracket for wall mounting



Mounting Components for support arm systems

To mount a signal pillar on the plastic cover of support arm components.

Fig.	Mounting component	Color	Suitable for LED compact	Model No.
2	for support arm system CP 40, steel – 90° Angle Piece 6501.140	RAL 7024 (graphite gray)	■	2375.030
3	for CP 60 support arm system – 90° Angle Adapter for CP 60 Support Arm Combination to CP 40 6206.640 – 90° Angle Coupling 6206.380 – 90° Angle Piece 6206.600 – Intermediate Joint 6206.620 – Wall Joint 6206.740 – Top-Mounted Joint 6206.700	RAL 7024 (graphite gray)	■	6206.900
4	for CP 120 support arm system – 90° Angle Coupling 6212.380 – 90° Angle Piece 6212.600 – Intermediate Joint 6212.620 – Wall Joint 6212.740 – Top-Mounted Joint 6212.700	RAL 7024 (graphite gray)	■	6212.900
	for CP 180 support arm system – 90° Angle Piece 6218.600 – Top-Mounted Joint 6218.700	RAL 7024 (graphite gray)	■	6212.900



Also required:

- Connection adapter 2372.120, see page 619



Mounting Components for conduit mounting

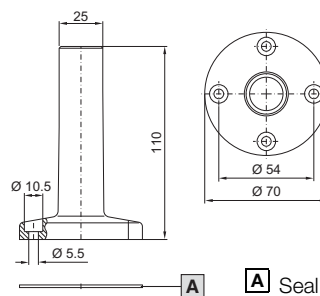
Fig.	Mounting component	Color	Suitable for LED compact	Model No.
5	Base with integral conduit, Ø 25 mm, 110 mm long	black	■ ¹⁾	2374.000
6	Individual base	black	■	2374.010
7	Single pipe, 250 mm long	Aluminum	■ ¹⁾	2374.020
	Single pipe, 400 mm long	Aluminum	■ ¹⁾	2374.030
8	Angle bracket for pipe mounting	black	■	2374.050



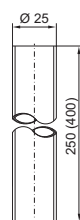
Also required:

- ¹⁾ Connection adapter 2372.120, see page 619

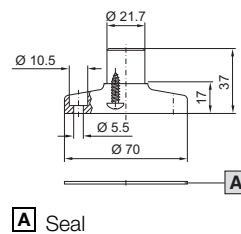
Base with integrated conduit



Individual conduit

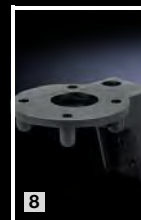
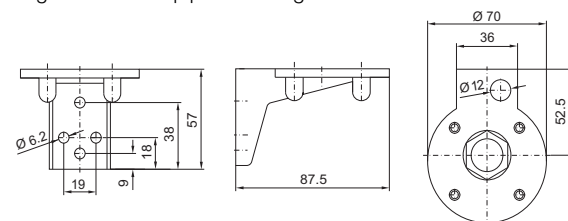


Individual base, plastic



A Seal

Angle bracket for pipe mounting





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