

The Rittal Flex-Block base/plinth system



Save time

- Fast assembly by simply clipping together the base/plinth components
- Easily bayed with tool-free baying clip
- The enclosure is easily transported, both when empty and fully configured, by removing the base/plinth trim panel



Easy to assemble

- Tool-free assembly of all base/plinth components
- Tool-free mounting of accessories, e.g. baying and levelling feet
- Symmetrical enclosure widths and depths
- Combinations of 100 and 200 mm high trim panels may be used with the 200 mm high Flex-Block



Large mounting area

- Space-saving cable management in the base/plinth means more space for enclosure configuration
- Configuration with punched rail – clip into position from outside or inside
- Flexible configuration: Punched rail with 25 mm pitch pattern of holes



Base/plinth

Flex-Block base/plinth system

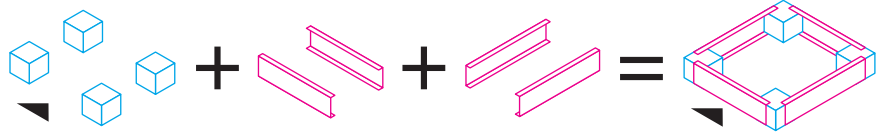


The Rittal base/plinth system

Flex-Block

Freely combinable base/plinth system for virtually any application. Because the corner pieces and trim panels are packaged separately, it is possible to respond individually to any application.

The enclosure load rests on the corner pieces, so that the trim panels can be attached or removed at any time by using clips. The base/plinth trim panels are symmetrical and are readily exchanged in the width and depth. This creates unprecedented flexibility and great savings potential with base/plinth configuration.



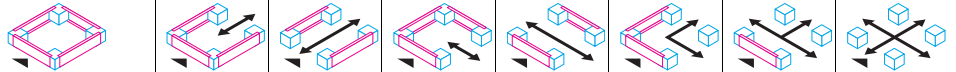
One Model No. for the **Flex-Block corner pieces** front and rear

One Model No. for the **Flex-Block trim panels** front and rear

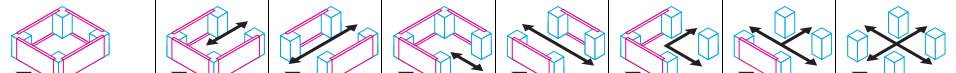
One Model No. for the **Flex-Block trim panels** at the sides

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

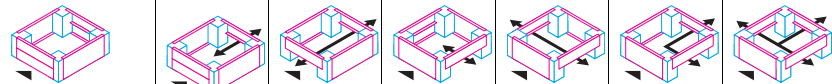
Base/plinth, height 100 mm



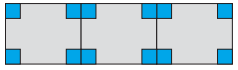
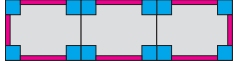
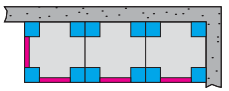
Base/plinth, height 200 mm with 200 mm trim panel



Base/plinth, height 200 mm. Combination of 100 mm and 200 mm trim panel

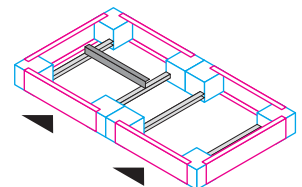


Functional and cost benefits

Order includes	Functional benefits	Potential savings with 100 mm high Flex-Block versus complete Flex-Block base/plinth
3 packs of Flex-Block corner pieces	The enclosures rest securely on the corner pieces. Transportation via forklift or lifting truck with free-standing enclosures is supported.	12 trim panels 
3 packs of Flex-Block corner pieces 4 packs of Flex-Block trim panels	Completely closed suite of base/plinths, no trim panels between the enclosure panels. This means more space for assembly 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 the viewed area; there are no trim panels between the enclosures. This means more space for assembly and cable entry.	8 trim panels 

Other options:

- Cable clamp may be configured individually in every enclosure panel using system accessories
- With 200 mm Flex-Block corner pieces, either 100 mm high or 200 mm high trim panels may be used, depending on requirements



Base/plinth

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: Fibreglass-reinforced plastic
- Cover caps: ABS

Colour:

- RAL 9005

Supply includes:

- 4 corner pieces
- 4 cover caps
- Assembly parts for mounting on the enclosure

Corner pieces height mm	Model No.
100	8100.000
200	8200.000



Accessories:

- Flex-Block trim panels, see page 617
- Punched rail 23 x 23 mm, see page 722
- Baying clip 8000.100, see page 617
- Adaptor sleeve 8000.500, see page 629
- Base mounting plate 2817.000, see page 622



Flex-Block trim panels

for Flex-Block corner pieces

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

Material:

- Sheet steel

Colour:

- RAL 9005

Supply includes:

- 2 trim panels

100 mm high, solid

For enclosure width and depth in mm	Model No.
300	8100.300
400	8100.400
500	8100.500
600	8100.600
800	8100.800
1000	8100.010
1200	8100.120
1600	8100.160
1800	8100.180

100 mm high, with brush strip

For enclosure width and depth in mm	Model No.
600	8100.605
800	8100.805
1000	8100.105
1200	8100.125

200 mm high, solid

For enclosure width and depth in mm	Model No.
300	8200.300
400	8200.400
500	8200.500
600	8200.600
800	8200.800
1000	8200.010
1200	8200.120

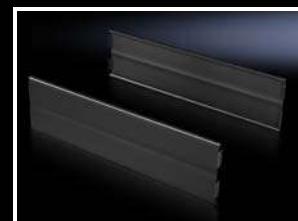
100 mm high, vented

For enclosure width and depth in mm	Model No.
600	8100.602
800	8100.802



Accessories:

- Filter mats for trim panel, vented 7583.500, see page 623



Baying clip

for baying the Flex-Block corner pieces

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

Material:

- Fibreglass-reinforced plastic

Colour:

- RAL 9005

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



Base/plinth

Base/plinth TS

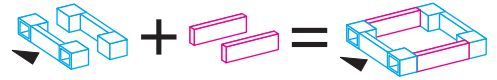
Modular base/plinth diversity

Regardless of the enclosure depth:

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

Only the side trim panels are selected according to the enclosure depth and the required base/plinth configuration. The modular concept produces exceptional advantages in terms of cost and function.

Mounting on the enclosure is conveniently carried out from the outside. The base/plinth interior offers diverse opportunities for cable management mounting levels.



One Model No. for the **base/plinth components** front and rear

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

One complete **base/plinth TS**

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

Functional and cost benefits

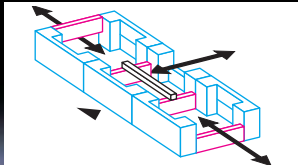
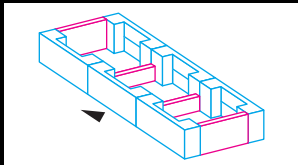
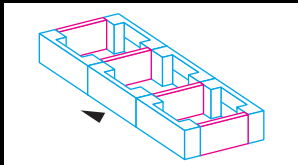
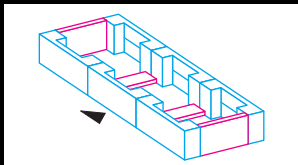
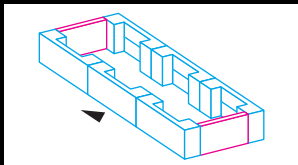
Fewer parts, more opportunities, lower purchasing, storage and assembly costs – this is the winning formula behind the modular base/plinth system.

The following table shows five possible solutions using three bayed base/plinths in 200 mm height from the wide range of options available, together with the potential savings with trim panels compared with the previous 200 mm base/plinth system each with two trim panels of 100 mm height at the sides.

Order includes	Functional benefits	Potential savings versus twelve 100 mm trim panels
1 pack of base/plinth components, 1 pack of base/plinth trim panels 200 mm high	Continuous cable chamber	2 trim panels 200 mm
3 packs of base/plinth components 1 pack of base/plinth trim panels 200 mm high 1 pack of base/plinth trim panels 100 mm high 1 pack of base/plinth baying brackets 8601.100 (packs of 20) 4 pc(s). are required for this solution	Additional stabilisation for transportation purposes with base/plinth trim panels rotated through 90°	2 trim panels 200 mm 2 trim panels 100 mm
2 packs of base/plinth components 1 pack of base/plinth trim panels 200 mm high	Shielding of the base/plinths in relation to one another	4 trim panels 200 mm
3 packs of base/plinth components 1 pack of base/plinth trim panels 200 mm high 1 pack of base/plinth trim panels 100 mm high	Additional connection of the base/plinths	2 trim panels 200 mm 2 trim panels 100 mm

Other options:

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



Base/plinth components front and rear

Sheet steel for TS, TS IT, SE, CM, TP, PC, IW

Base/plinth component consisting of one trim panel and two pre-configured corner pieces. In 200 mm high base/plinth components, one trim panel is divided into two for cable entry.

Material:

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

Surface finish:

- Spray-finished

Colour:

- Cover caps: RAL 9005/7035

Supply includes:

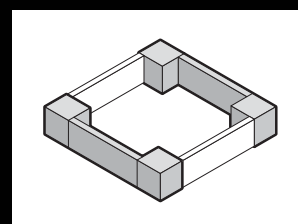
- 2 base/plinth components, 4 cover caps, 4 screws and cage nuts M12 for mounting on the enclosure

! Also required:

- Depending on the application/load, side base/plinth trim panels, see page 620

+ Accessories:

- Base mounting plate 2817.000, see page 622
- Filter mats for vented base/plinth trim panel, see page 623



100 mm high, colour: RAL 7022

For enclosure width mm	Version	Model No.
300	solid	8601.915
400	solid	8601.400
600	solid	8601.600
800	solid	8601.800
850	solid	8601.850
1000	solid	8601.000
1100	solid	8601.300
1200	solid	8601.200
1600	solid	8601.920
1800	solid	8601.980

200 mm high, colour: RAL 7022

For enclosure width mm	Version	Model No.
300	solid	8602.915
400	solid	8602.400
600	solid	8602.600
800	solid	8602.800
850	solid	8602.850
1000	solid	8602.000
1100	solid	8602.100
1200	solid	8602.200
1600	solid	8602.920
1800	solid	8602.980

100 mm high, colour: RAL 7035

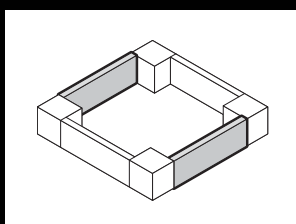
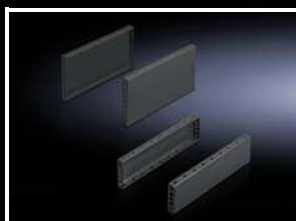
For enclosure width mm	Version	Model No.
300	solid	8601.905
600	solid	8601.605
600	vented	7825.601
800	solid	8601.805
800	vented	7825.801

200 mm high, colour: RAL 7035

For enclosure width mm	Version	Model No.
300	solid	8602.905
600	solid	8602.605
800	solid	8602.805

Base/plinth

Base/plinth TS



Base/plinth trim panels, sides

Sheet steel

for base/plinth components front and rear

For mounting between the base/plinth components. At 200 mm height, two 100 mm base/plinth trim panels may also be used. Base/plinth trim panels (100 mm high) may be installed rotated through 90° to stabilise bayed base/plinth components.

Material:

- Sheet steel

Surface finish:

- Spray-finished

Supply includes:

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



Also required:

- Base/plinth baying brackets 8601.100, see page 620, when base/plinth trim panels are installed rotated through 90°



Accessories:

- Fastening bolts for base/plinth, see page 622

100 mm high, colour: RAL 7022

For enclosure depth mm	Model No.
300	8601.030
400	8601.040
500	8601.050
600	8601.060
800	8601.080

200 mm high, colour: RAL 7022

For enclosure depth mm	Model No.
300	8602.030
400	8602.040
500	8602.050
600	8602.060
800	8602.080

100 mm high, colour: RAL 7035

For enclosure depth mm	Model No.
600	8601.065
800	8601.085
1000	8601.015
1200	8601.025

200 mm high, colour: RAL 7035

For enclosure depth mm	Model No.
600	8602.065
800	8602.085
1000	8602.015
1200	8602.025



Base/plinth baying brackets

for TS base/plinth

Required if the trim panels are mounted rotated through 90° for additional stabilisation during the transportation of bayed enclosures.

Additional brackets required for each trim panel:
2 pc(s).

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Screws M8 x 16 mm

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

Base/plinth

Base/plinth TS

Cable chamber

for TS, SE

With integral system punchings for individual system accessories.

Height: 200 mm

Material:

– Sheet steel

Colour:

– RAL 7035

Supply includes:

– Sheet steel trim panels front and rear
– Assembly parts for mounting on the enclosure

For enclosures		Model No.
Width mm	Depth mm	
400	500	8600.455
400	600	8600.465
600	500	8600.655
600	600	8600.665
800	500	8600.855
800	600	8600.865
1200	500	8600.255
1200	600	8600.265



Accessories:

– Side panels for cable chamber, see page 621

Side panels

for cable chamber

Height: 200 mm

Material:

– Sheet steel

Colour:

– RAL 7035

Supply includes:

– Assembly parts

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



Transport castors

for TS base/plinth

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

Load capacity:

– Maximum permissible load per twin castor:
Static 100 kg

Supply includes:

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

Colour:

– RAL 7022

Floor clearance mm	Model No.
100	8800.390



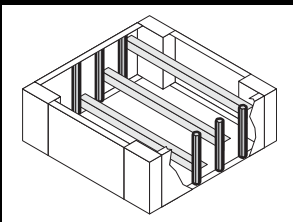
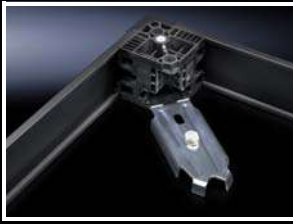
Also required:

– Base/plinth trim panels, side, see page 620



Base/plinth

Base/plinth TS



Base mounting plate

For

- TS base/plinth
- Flex-Block base/plinth system
- Base/plinth, complete

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

Material:

- Sheet 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

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

Material:

- Hexagonal steel

Surface finish:

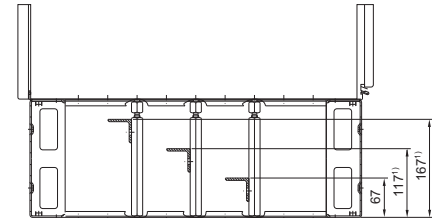
- Zinc-plated

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



Accessories:

- Cable clamp rail, see page 783



¹⁾ Only for height 200 mm

Levelling component

for TS base/plinth

For retrospective levelling on uneven floors at the installation site up to a maximum of 15 mm. Installed through the corner piece of the base/plinth component.

Adjusted using a hex spanner, width across flats 19 mm.

Benefits:

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

Load capacity:

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

Supply includes:

- Assembly parts

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

Base/plinth

Base/plinth TS

Cover cap

for TS base/plinth components

As a replacement.

Material:

- Plastic ABS

Colour:

- RAL 9005

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



Base/plinth, stationary

for PC, TP

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

Material:

- Sheet steel, 2.0 mm

Colour:

- RAL 7035
- Design component, front: RAL 7015

Supply includes:

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

For depth mm	Model No.
600	8800.920



Accessories:

- Twin castors 7495.000, see page 628
- Levelling feet 4612.000, see page 628
- Fastening bolts 2819.000, see page 622
- Support bracket 4183.000, see page 731



Filter mat

for base/plinth trim panel, vented

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

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



Filter mat

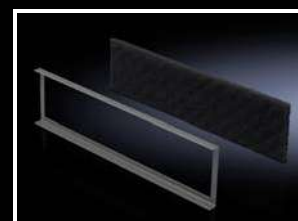
for base/plinth component, vented

To cover the trim panel in the base/plinth component. The mounting frame slides into position behind the filter mat in the base/plinth trim panel. Filter class G3 to DIN EN 779.

For enclosure width mm	Packs of	Model No.
600	1 pc(s).	7561.500
800	1 pc(s).	7581.500

Supply includes:

Mounting frame



Base/plinth

Base/plinth TS



Base/plinth components front and rear

Stainless steel for TS, SE

Material:

- Stainless steel 1.4301 (AISI 304)

Surface finish:

- Brushed, grain size 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

For mounting between the base/plinth components. At 200 mm height, two 100 mm base/plinth trim panels may be used. Base/plinth trim panels (100 mm high) may be installed rotated through 90° to stabilise bayed base/plinth components.

Material:

- Stainless steel 1.4301 (AISI 304)

Surface finish:

- Brushed, grain size 400

Supply includes:

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



Base/plinth plate, 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 plates

Note:

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

For enclosure width mm	Height mm	Model No.
600	100	8701.600
800	100	8701.800
1000	100	8701.000
1200	100	8701.200
600	200	8702.600
800	200	8702.800
1000	200	8702.000
1200	200	8702.200



Accessories:

- Base/plinth plate, modular (perforated plate), see page 624.

For enclosure depth mm	Height mm	Model No.
400	100	8701.040
500	100	8701.050
600	100	8701.060
400	200	8702.040
500	200	8702.050
600	200	8702.060



Also required:

- Base/plinth baying brackets 8601.100, see page 620, when base/plinth trim panels are installed rotated through 90°



Accessories:

- Fastening bolts for base/plinth, see page 622

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



Accessories:

- Cable tie 2597.000, see page 785

Base/plinth, complete

Sheet steel

for AE, TP universal console

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

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- 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 panels front/rear x 100 mm
- 4 trim panels, side

Base/plinth for TP universal console, 100 mm high

For enclosures/consolas		Base/plinth depth mm	Model No.
Width mm	Depth mm		
600	500	450	2807.200

Base/plinth for AE, 200 mm high

For enclosures		Base/plinth depth mm	Model No.
Width mm	Depth mm		
600	300	279	2826.200
800	300	279	2828.200
1000	300	279	2802.200

Base/plinth for AE, 100 mm high

For enclosures		Base/plinth depth mm	Model No.
Width mm	Depth mm		
600	300	279	2816.200
800	300	279	2818.200
1000	300	279	2801.200



Accessories:

- Fastening bolt, see page 622
- Base mounting plate, see page 622

Base/plinth, complete

Stainless steel

for one-piece consoles, stainless steel

Height: 100 mm

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

Material:

- Stainless steel 1.4301 (AISI 304)

Surface finish:

- Brushed

Supply includes:

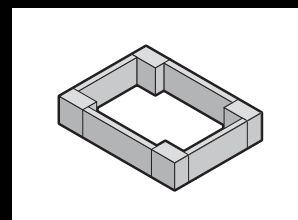
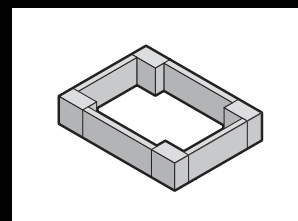
- Mounting accessories for mounting on the enclosure
- 2 trim panels front/rear
- 2 trim panels, side

For enclosures/consolas		Model No.
Width mm	Depth mm	
600	400	2865.000
800	400	2869.000
1000	400	2867.000
1200	400	2870.000



Accessories:

- Levelling feet, see page 626
- Base/plinth plate, modular (perforated plate), see page 624



Base/plinth

Base/plinth



Cast feet

For secure siting of
 ■ Enclosure for tower PC
 or
 ■ Other customer equipment

Depth: 700 mm

Material:

– Cast aluminium

Colour:

– RAL 7035

Supply includes:

– Assembly parts

Packs of	Model No.
2 pc(s).	6902.920

+ Accessories:

- Base mount 6147.000, see page 205
- Twin castors, see page 628



Levelling feet

For direct mounting underneath the TS base/plinth and the base/plinth, complete. For unhindered access e.g. when cleaning the floor, and to compensate for floor irregularities.

Load capacity:

- Max. admissible static load:
400 kg per levelling foot

Adjustment range:

- M12: 55 mm – 125 mm
- M16: 45 mm – 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:

- Levelling feet Hygienic Design, see page 210



Cross member

for TS, SE, CM, TP, PC, IW
adjustable

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

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

Material:

– Sheet steel

Surface finish:

– Spray-finished

Colour:

– RAL 7015

For enclosure depth mm	Model No.
400	8601.450
500	
600	8601.680
800	

+ Accessories:

- Twin castors 6148.000, 7495.000, see page 628
- Levelling feet 4612.000, 7493.100, see page 628



Base/plinth

Base/plinth

Stabiliser

for TS IT

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

Load capacity:

- Up to a maximum of 150 kg static load

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Note:

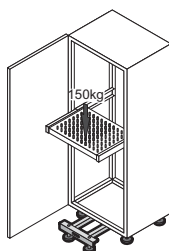
- The stabiliser cannot be used together with base plates, base frames or base/plinths

Enclosure depth mm	Packs of	Model No.
1000	1 pc(s).	7825.250



Also required:

- Levelling feet, see page 628 and/or
- Transport kit, see page 629



Base/plinth

for FlatBox

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

Material:

- Sheet steel

Surface finish:

- Powder-coated

Colour:

- RAL 7035

Supply includes:

- 4 levelling feet
- Assembly parts

For base area		Height mm	Packs of	Model No.
Width mm	Depth mm			
600	600	50	1 pc(s).	7507.750
700	700	50	1 pc(s).	7507.755



Base

Base



Levelling feet

for TS, TS IT, SE, PC, IW

To compensate for height differences with floor irregularities. Assembly thread M12. Optionally with hex socket for adjustment from the inside of the enclosure.

Load capacity:

- Max. admissible static load: approx. 300 kg per levelling foot

Hex socket	Adjustment height	Packs of	Model No.
without	18 – 43 mm	4 pc(s).	4612.000
with	18 – 63 mm	4 pc(s).	7493.100



Also required:

- For mounting on the TS base/plinth: Base/plinth adaptor 8800.220, see page 629
- For mounting on the Flex-Block base/plinth system: Adaptor sleeve 8000.500, see page 629



Levelling feet

for FlatBox M10 x 20 mm

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

Packs of	Model No.
4 pc(s).	7507.740



Levelling feet

85 – 115 mm high

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

Height: 100 mm

Load capacity:

- Max. admissible static load: 350 kg per levelling foot

Material:

- Stainless steel 1.4301 (AISI 304)

Supply includes:

- Mounting accessories to the enclosure

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



Possible alternative:

- Levelling feet Hygienic Design, see page 210



Twin castors

Mounting thread M12 x 20.

For:

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



Also required:

- For mounting on the TS base/plinth: Base/plinth adaptor for twin castors 8800.290, see page 630

	Maximum admissible static load (per castor)	75 kg
	Floor clearance	85 mm
1	Lock	2 with, 2 without
	Packs of	4 pc(s).
	Colour	Black with grey running surface
	Model No.	6148.000



	Maximum admissible static load (per castor)	120 kg
	Floor clearance	125 mm
2	Lock	2 with, 2 without
	Packs of	4 pc(s).
	Colour	Black
	Model No.	7495.000

Transport castors

for TE

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

Supply includes:

- Assembly parts

Max. load capacity (static) per enclosure N	Packs of	Model No.
3000	4 pc(s).	7000.672



Transport kit

for TS IT

Floor clearance: approx. 40 mm

Load capacity:

- Max. admissible static load: 750 kg per enclosure

Supply includes:

- 4 castors (2 of which steerable) including assembly parts

Packs of	Model No.
4 pc(s).	7825.900

Note:

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



Adaptor sleeve

for Flex-Block

To accommodate levelling feet on the Flex-Block and for stacking the base/plinth corner pieces.

Material:

- Steel

Surface finish:

- Zinc-plated

Supply includes:

- 12 adaptor sleeves
- 8 screws M12
- 8 washers

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



Accessories:

- Levelling feet 4612.000, see page 628



Base/plinth adaptor

for levelling feet

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

Material:

- Sheet steel

Surface finish:

- Zinc-plated

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



Accessories:

- Levelling feet 4612.000, 7493.100, see page 628



Base

Base



Base/plinth adaptor

for twin castors

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

Material:

- Sheet steel

Surface finish:

- Zinc-plated

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

Note:

- Base/plinth trim panels, side, see page 620, wherever a twin castor is fitted



Width divider

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

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- 1 pc(s) =
1 bracket for right, 1 bracket for left, 2 compensating plates for the top, mounting accessories

Packs of	Model No.
1 pc(s).	8800.200



Also required:

- TS punched rail 18 x 38 mm, see page 720
- PS punched section without mounting flange, 23 x 73 mm, see page 722 depending on the installation situation



1st mounting position:

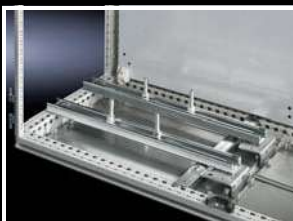
Two mounting plates side by side.

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



Also required:

- Four TS punched rails 18 x 38 mm at the bottom, according to the enclosure depth, see page 720
- One PS punched section without mounting flange 23 x 73 mm at the top, according to the enclosure depth, see page 722



2nd mounting position:

System support rails, fitted on the left.

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



Also required:

- 2 system support rails 4361.000, see page 724
- 1 TS punched rail 18 x 38 mm in accordance with the enclosure depth (included with the supply of the standard enclosure)



3rd mounting position:

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 cable clamp rail 4191.000, see page 783
- 1 TS punched rail 18 x 38 mm in accordance with the enclosure depth (included with the supply of the standard enclosure)

Reinforcement bracket

for TS, SE, TP universal console

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

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

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



Trim panel

for CM, TP

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

Material:

- Sheet steel

Surface finish:

- Textured paint

Colour:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 55

Supply includes:

- Assembly parts

For enclosure		Model No.
Width mm	Depth mm	
600	400	5001.130
800	400	5001.140
1000	400	5001.150
1200	400	5001.160
1600	400	6730.030
600	500	6730.100
800	500	6730.110
1200	500	6730.120
1600	500	6730.130



Clip parts

for gland plates

As replacement and for additional gland plate attachments in TS, SE, CM, TP.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

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



Base

Base



Gland plate

for CM, TP

Potential equalisation is provided via assembly components and earthing points.

Material:

– Sheet steel

Surface finish:

– Zinc-plated

Supply includes:

– Assembly parts

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 300 mm, complete module groups

	For enclosure/console width mm								
	One-piece base opening				Two-piece base opening				
For enclosure width			600	800			1000	1200	1600
Cable entry module groups	Packs of	Packs re-quired	Model No.		Packs of	Packs re-quired	Model No.		

Cable clamp strip, centre

Gland plate, depth 50 mm	1 pc(s).	2	5001.210	5001.211	1 pc(s).	4	5001.212	5001.213	5001.233
Section for cable entry, centre	2 pc(s).	1	8802.060	8802.080	4 pc(s).	1	8802.100	8802.120	8802.160

Cable clamp strip, rear

Gland plate, depth 100 mm	1 pc(s).	1	5001.214	5001.215	1 pc(s).	2	5001.216	5001.217	5001.234
Section for cable entry, rear	2 pc(s).	1	8802.065	8802.085	4 pc(s).	1	8802.105	8802.125	8802.165

Grommets, 1 x

Gland plate, depth 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).	1	5001.226	5001.227	1 pc(s).	2	5001.228	5001.229	5001.237

Cable entry and connector grommets, see page 769

For cable glands

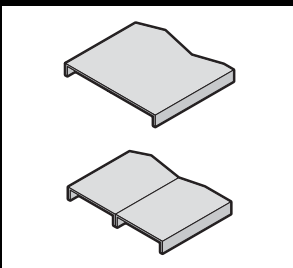
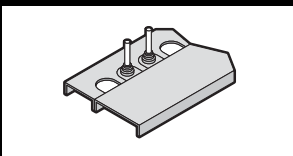
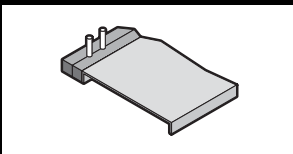
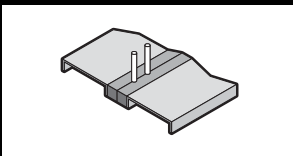
One-piece

Gland plate, depth 150 mm	1 pc(s).	1	5001.218	5001.219	1 pc(s).	2	5001.220	5001.221	5001.235
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Two-piece

Gland plate, depth 50 mm	1 pc(s).	1	5001.210	5001.211	1 pc(s).	2	5001.212	5001.213	5001.233
Gland plate, depth 100 mm	1 pc(s).	1	5001.214	5001.215	1 pc(s).	2	5001.216	5001.217	5001.234

Cable glands, see page 776



For enclosure depth 400 mm, complete module groups

	For enclosure/console width mm								
	One-piece base opening				Two-piece base opening				
For enclosure width	Packs of	Packs re-quired	600	800	Packs of	Packs re-quired	1000	1200	1600
Cable entry module groups			Model No.				Model No.		

Cable clamp strip, centre

Gland plate, depth 50 mm	1 pc(s).	1	5001.210	5001.211	1 pc(s).	2	5001.212	5001.213	5001.233
Gland plate, depth 150 mm	1 pc(s).	1	5001.218	5001.219	1 pc(s).	2	5001.220	5001.221	5001.235
Section for cable entry, centre	2 pc(s).	1	8802.060	8802.080	4 pc(s).	1	8802.100	8802.120	8802.160

Cable clamp strip, rear

Gland plate, depth 100 mm	1 pc(s).	2	5001.214	5001.215	1 pc(s).	4	5001.216	5001.217	5001.234
Section for cable entry, rear	2 pc(s).	1	8802.065	8802.085	4 pc(s).	1	8802.105	8802.125	8802.165

Cable clamp strip, centre and rear

Gland plate, depth 50 mm	1 pc(s).	1	5001.210	5001.211	1 pc(s).	2	5001.212	5001.213	5001.233
Gland plate, depth 100 mm	1 pc(s).	1	5001.214	5001.215	1 pc(s).	2	5001.216	5001.217	5001.234
Section for cable entry, centre	2 pc(s).	1	8802.060	8802.080	4 pc(s).	1	8802.100	8802.120	8802.160
Section for cable entry, rear	2 pc(s).	1	8802.065	8802.085	4 pc(s).	1	8802.105	8802.125	8802.165

Grommets, 1 x

Gland plate, depth 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 and connector grommets, see page 769

Grommets, 2 x

Gland plate, depth 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 and connector grommets, see page 769

EMC

EMC gland plate	1 pc(s).	1	8800.660	8800.680	1 pc(s).	2	8800.600	8800.620	–
Gland plate, depth 100 mm	1 pc(s).	1	5001.214	5001.215	1 pc(s).	2	5001.216	5001.217	–

Cable entry and connector grommets, see page 769

For cable glands

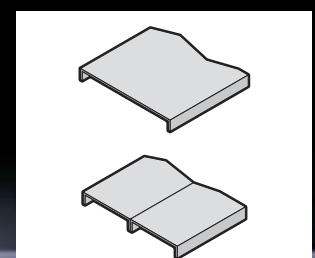
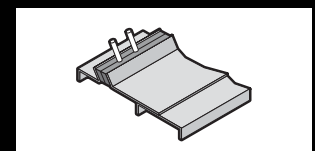
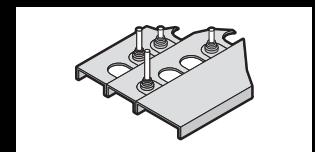
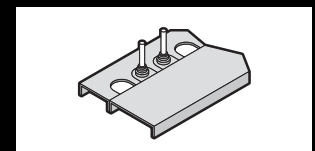
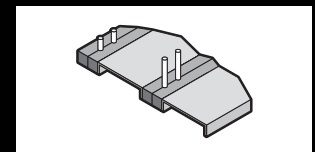
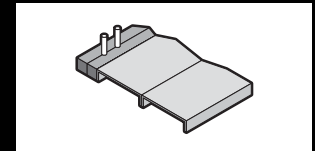
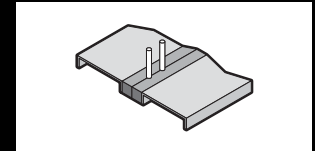
One-piece

Gland plate, depth 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

Gland plate, depth 150 mm	1 pc(s).	1	5001.218	5001.219	1 pc(s).	2	5001.220	5001.221	5001.235
Gland plate, depth 100 mm	1 pc(s).	1	5001.214	5001.215	1 pc(s).	2	5001.216	5001.217	5001.234


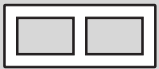
Cable glands, see page 776



Base

Base

For enclosure depth 500 mm, complete module groups

	For enclosure/console width mm								
	One-piece base opening				Two-piece base opening				
									
For enclosure width	Packs of	Packs re-quired	600	800	Packs of	Packs re-quired	1000	1200	1600
Cable entry module groups			Model No.				Model No.		

Cable clamp strip, centre

Gland plate, depth 50 mm	1 pc(s).	1	5001.210	5001.211	1 pc(s).	2	5001.212	5001.213	5001.233
Gland plate, depth 250 mm	1 pc(s).	1	5001.222	5001.223	1 pc(s).	2	5001.224	5001.225	5001.236
Section for cable entry, centre	2 pc(s).	1	8802.060	8802.080	4 pc(s).	1	8802.100	8802.120	8802.160

Cable clamp strip, rear

Gland plate, depth 150 mm	1 pc(s).	2	5001.218	5001.219	1 pc(s).	4	5001.220	5001.221	5001.235
Section for cable entry, rear	2 pc(s).	1	8802.065	8802.085	4 pc(s).	1	8802.105	8802.125	8802.165

Cable clamp strip, centre and rear

Gland plate, depth 50 mm	1 pc(s).	1	5001.210	5001.211	1 pc(s).	2	5001.212	5001.213	5001.233
Gland plate, depth 100 mm	1 pc(s).	2	5001.214	5001.215	1 pc(s).	4	5001.216	5001.217	5001.234
Section for cable entry, centre	2 pc(s).	1	8802.060	8802.080	4 pc(s).	1	8802.100	8802.120	8802.160
Section for cable entry, rear	2 pc(s).	1	8802.065	8802.085	4 pc(s).	1	8802.105	8802.125	8802.165

Grommets, 1 x

Gland plate, depth 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 and connector grommets, see page 769

Grommets, 2 x

Gland plate, depth 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 and connector grommets, see page 769

EMC

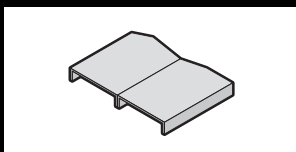
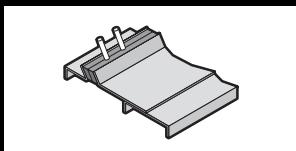
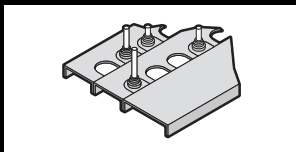
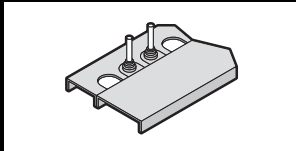
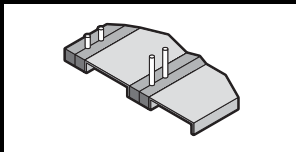
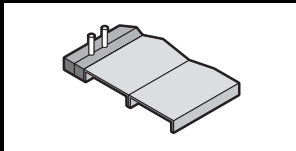
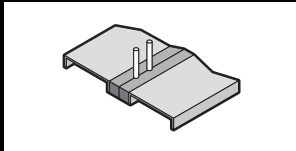
EMC gland plate	1 pc(s).	1	8800.660	8800.680	1 pc(s).	2	8800.600	8800.620	-
Gland plate, depth 100 mm	1 pc(s).	2	5001.214	5001.215	1 pc(s).	4	5001.216	5001.217	-

Cable entry and connector grommets, see page 769

For cable glands, two-piece

Gland plate, depth 100 mm	1 pc(s).	1	5001.214	5001.215	1 pc(s).	2	5001.216	5001.217	5001.234
Gland plate, depth 250 mm	1 pc(s).	1	5001.222	5001.223	1 pc(s).	2	5001.224	5001.225	5001.236

Cable glands, see page 776



Gland plate

for TS IT

Potential equalisation is provided via assembly components and earthing points.

■ Gland plate set

- To conceal the entire base opening:
 - Multi-piece, solid, with sliding panel
 - One-piece, vented with filter mat and cable entry at the rear

■ Gland plate modules

Select suitable modules depending on the application

Material:

- Sheet steel

Surface finish:

- Zinc-plated

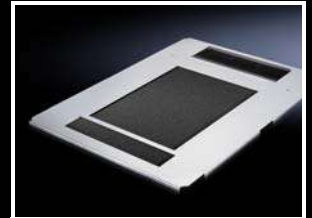
Supply includes:

- Assembly parts



Accessories:

- Clip parts for gland plates, see page 631
- Filter mat for gland plate, one-piece, vented, see page 639



For enclosure depth 600 mm

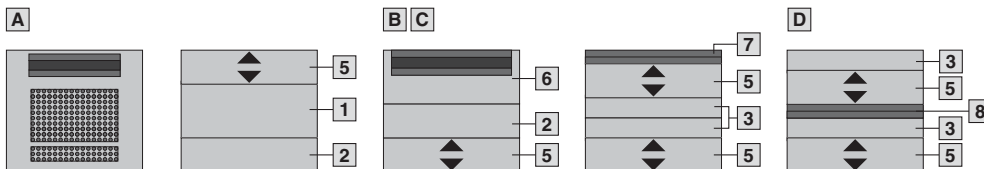
A Gland plate set	Packs of	Packs required	For enclosure width mm	
			600	800
			Model No.	
Gland plate, multi-piece, solid, with sliding panel	1 pc(s).	1	–	5502.510
Gland plate, one-piece, vented	1 pc(s).	1	–	5502.310

Gland plate modules	Packs of	Packs required	For enclosure width mm	
			600	800
			Model No.	

B 1 module plate as selected			Model No.		
Gland plate, depth 150 mm	1 pc(s).	1	5001.218	5001.219	
Sliding panel, depth 150 mm	1 pc(s).	1	5001.239	5001.240	
Module plate, depth 237.5 mm	1 pc(s).	1	Cable entry with brush strip	7825.361	7825.381
			Vented	7825.360	7825.380
			Cable entry with brush strip, super-airtight	7825.367	7825.387
			Cable entry, side	–	7825.388

C Cable entry, rear or front			Model No.	
Gland plate, depth 100 mm	1 pc(s).	2	5001.214	5001.215
Sliding panel, depth 150 mm	1 pc(s).	2	5001.239	5001.240
Foam rubber cable clamp strip	3 m	1	2573.000	2573.000

D Cable entry, centre			Model No.	
Gland plate, depth 100 mm	1 pc(s).	2	5001.214	5001.215
Sliding panel, depth 150 mm	1 pc(s).	2	5001.239	5001.240
Section for cable entry, centre	2 pc(s).	1	8802.060	8802.080



- 1 Gland plate, depth 250 mm
- 2 Gland plate, depth 150 mm
- 3 Gland plate, depth 100 mm
- 4 Gland plate, depth 50 mm
- 5 Sliding panel, depth 150 mm
- 6 Module plate, depth 237.5 mm
- 7 Foam rubber cable clamp strip
- 8 Section for cable entry, centre

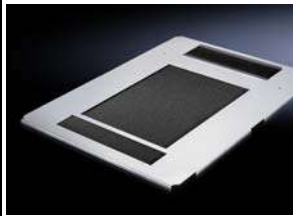


Also required:

- Base mount, see page 639

Base

Base



For enclosure depth 800 mm

A Gland plate set	Packs of	Packs required	For enclosure width mm	
			600	800
			Model No.	
Gland plate, multi-piece, solid, with sliding panel	1 pc(s).	1	-	5502.530
Gland plate, one-piece, vented	1 pc(s).	1	-	5502.330

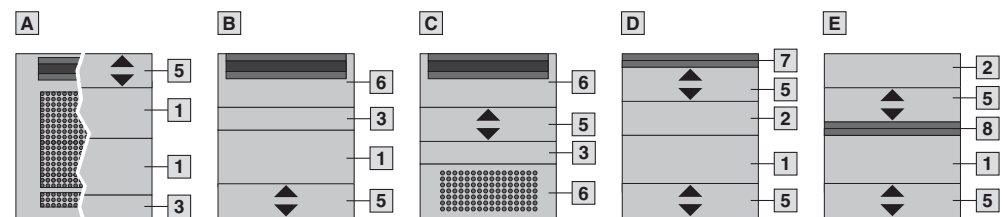
Gland plate modules	Packs of	Packs required	For enclosure width mm	
			600	800

B 1 module plate as selected			Model No.		
Gland plate, depth 250 mm	1 pc(s).	1	5001.222	5001.223	
Gland plate, depth 100 mm	1 pc(s).	1	5001.214	5001.215	
Sliding panel, depth 150 mm	1 pc(s).	1	5001.239	5001.240	
Module plate, depth 237.5 mm	1 pc(s).	1	Cable entry with brush strip	7825.361	7825.381
			Vented	7825.360	7825.380
			Cable entry with brush strip, super-airtight	7825.367	7825.387
			Cable entry, side	-	7825.388

C 2 module plates as selected			Model No.		
Gland plate, depth 150 mm	1 pc(s).	1	5001.218	5001.219	
Sliding panel, depth 150 mm	1 pc(s).	1	5001.239	5001.240	
Module plate, depth 237.5 mm	1 pc(s).	2	Cable entry with brush strip	7825.361	7825.381
			Vented	7825.360	7825.380
			Cable entry with brush strip, super-airtight	7825.367	7825.387
			Cable entry, side	-	7825.388

D Cable entry, rear or front			Model No.	
Gland plate, depth 250 mm	1 pc(s).	1	5001.222	5001.223
Gland plate, depth 150 mm	1 pc(s).	1	5001.218	5001.219
Sliding panel, depth 150 mm	1 pc(s).	2	5001.239	5001.240
Foam rubber cable clamp strip	3 m	1	2573.000	2573.000

E Cable entry, centre			Model No.	
Gland plate, depth 250 mm	1 pc(s).	1	5001.222	5001.223
Gland plate, depth 150 mm	1 pc(s).	1	5001.218	5001.219
Sliding panel, depth 150 mm	1 pc(s).	2	5001.239	5001.240
Section for cable entry, centre	2 pc(s).	1	8802.060	8802.080



- 1 Gland plate, depth 250 mm
- 2 Gland plate, depth 150 mm
- 3 Gland plate, depth 100 mm
- 4 Gland plate, depth 50 mm
- 5 Sliding panel, depth 150 mm
- 6 Module plate, depth 237.5 mm
- 7 Foam rubber cable clamp strip
- 8 Section for cable entry, centre

! Also required:

- Base mount, see page 639

For enclosure depth 1000 mm

A Gland plate set	Packs of	Packs required	For enclosure width mm	
			600	800
			Model No.	
Gland plate, multi-piece, solid, with sliding panel	1 pc(s).	1	5502.540	5502.550
Gland plate, one-piece, vented	1 pc(s).	1	5502.340	5502.350

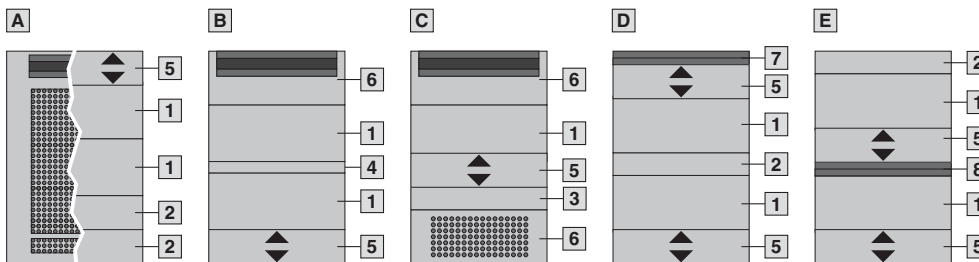
Gland plate modules	Packs of	Packs required	For enclosure width mm	
			600	800

B 1 module plate as selected			Model No.		
Gland plate, depth 250 mm	1 pc(s).	2	5001.222	5001.223	
Gland plate, depth 50 mm	1 pc(s).	1	5001.210	5001.211	
Sliding panel, depth 150 mm	1 pc(s).	1	5001.239	5001.240	
Module plate, depth 237.5 mm	1 pc(s).	1	7825.361	7825.381	
			Vented	7825.360	7825.380
			Cable entry with brush strip, super-airtight	7825.367	7825.387
			Cable entry, side	-	7825.388

C 2 module plates as selected			Model No.		
Gland plate, depth 250 mm	1 pc(s).	1	5001.222	5001.223	
Gland plate, depth 100 mm	1 pc(s).	1	5001.214	5001.215	
Sliding panel, depth 150 mm	1 pc(s).	1	5001.239	5001.240	
Module plate, depth 237.5 mm	1 pc(s).	2	7825.361	7825.381	
			Vented	7825.360	7825.380
			Cable entry with brush strip, super-airtight	7825.367	7825.387
			Cable entry, side	-	7825.388

D Cable entry, rear or front			Model No.	
Gland plate, depth 250 mm	1 pc(s).	2	5001.222	5001.223
Gland plate, depth 100 mm	1 pc(s).	1	5001.214	5001.215
Sliding panel, depth 150 mm	1 pc(s).	2	5001.239	5001.240
Foam rubber cable clamp strip	3 m	1	2573.000	2573.000

E Cable entry, centre			Model No.	
Gland plate, depth 250 mm	1 pc(s).	2	5001.222	5001.223
Gland plate, depth 100 mm	1 pc(s).	1	5001.214	5001.215
Sliding panel, depth 150 mm	1 pc(s).	2	5001.239	5001.240
Section for cable entry, centre	2 pc(s).	1	8802.060	8802.080



- 1 Gland plate, depth 250 mm
- 2 Gland plate, depth 150 mm
- 3 Gland plate, depth 100 mm
- 4 Gland plate, depth 50 mm
- 5 Sliding panel, depth 150 mm
- 6 Module plate, depth 237.5 mm
- 7 Foam rubber cable clamp strip
- 8 Section for cable entry, centre

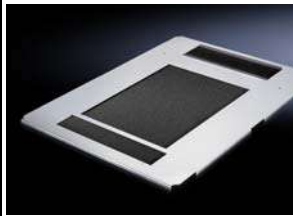
! Also required:

- Base mount, see page 639



Base

Base



For enclosure depth 1200 mm

A Gland plate set	Packs of	Packs required	For enclosure width mm	
			600	800
			Model No.	
Gland plate, multi-piece, solid, with sliding panel	1 pc(s).	1	5502.560	5502.570
Gland plate, one-piece, vented	1 pc(s).	1	5502.360	5502.370

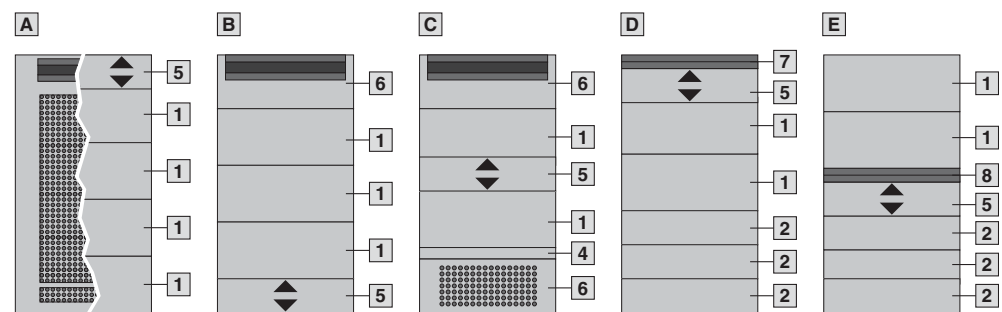
Gland plate modules	Packs of	Packs required	For enclosure width mm	
			600	800

B 1 module plate as selected			Model No.		
Gland plate, depth 250 mm	1 pc(s).	3	5001.222	5001.223	
Sliding panel, depth 150 mm	1 pc(s).	1	5001.239	5001.240	
Module plate, depth 237.5 mm	1 pc(s).	1	Cable entry with brush strip	7825.361	7825.381
			Vented	7825.360	7825.380
			Cable entry with brush strip, super-airtight	7825.367	7825.387
			Cable entry, side	-	7825.388

C 2 module plates as selected			Model No.		
Gland plate, depth 250 mm	1 pc(s).	2	5001.222	5001.223	
Gland plate, depth 50 mm	1 pc(s).	1	5001.210	5001.211	
Sliding panel, depth 150 mm	1 pc(s).	1	5001.239	5001.240	
Module plate, depth 237.5 mm	1 pc(s).	2	Cable entry with brush strip	7825.361	7825.381
			Vented	7825.360	7825.380
			Cable entry with brush strip, super-airtight	7825.367	7825.387
			Cable entry, side	-	7825.388

D Cable entry, rear or front			Model No.	
Gland plate, depth 250 mm	1 pc(s).	2	5001.222	5001.223
Gland plate, depth 150 mm	1 pc(s).	3	5001.218	5001.219
Sliding panel, depth 150 mm	1 pc(s).	1	5001.239	5001.240
Foam rubber cable clamp strip	3 m	1	2573.000	2573.000

E Cable entry, centre			Model No.	
Gland plate, depth 250 mm	1 pc(s).	2	5001.222	5001.223
Gland plate, depth 150 mm	1 pc(s).	3	5001.218	5001.219
Sliding panel, depth 150 mm	1 pc(s).	1	5001.239	5001.240
Section for cable entry, centre	2 pc(s).	1	8802.060	8802.080



- 1 Gland plate, depth 250 mm
- 2 Gland plate, depth 150 mm
- 3 Gland plate, depth 100 mm
- 4 Gland plate, depth 50 mm
- 5 Sliding panel, depth 150 mm
- 6 Module plate, depth 237.5 mm
- 7 Foam rubber cable clamp strip
- 8 Section for cable entry, centre

! Also required:

- Base mount, see page 639

Base mount

for TS IT

To accommodate gland plate modules.

- Tool-free mounting or screw-fastening
- Easily retrofitted and combined with stabiliser

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 7035

Supply includes:

- 2 mounting rails including assembly parts

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



Gland plate, one-piece, vented

for TS IT

To completely cover the open base assembly in one piece. Perforated over the entire surface. This allows cold air to flow in from the base or base/plinth area, ensuring an inflow of cold air, particularly in enclosures with rack climate control. With a brush strip at the rear for user-friendly cable entry from below across the entire enclosure width. Integral guides permit simple accommodation of a filter mat, which is also readily replaced.

Material:

- Sheet steel

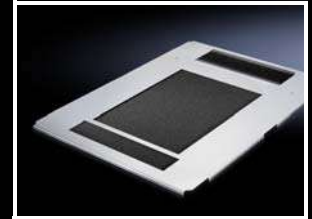
Surface finish:

- Zinc-plated

Supply includes:

- Gland plate, one-piece, vented, with cable entry at the rear
- Filter mat
- Assembly parts

For enclosure width mm	For enclosure depth mm	Packs of	Model No.
800	600	1 pc(s).	5502.310
800	800	1 pc(s).	5502.330
600	1000	1 pc(s).	5502.340
800	1000	1 pc(s).	5502.350
600	1200	1 pc(s).	5502.360
800	1200	1 pc(s).	5502.370



Also required:

- Base mount, see page 639



Accessories:

- Filter mat, see page 639

Filter mat

for gland plate, one-piece, vented

The filter mat may be cut to size according to the required cut-out.

Material:

- PPI 35-5/polyamide

To fit enclosure type	Packs of	Model No.
TS IT	1 pc(s).	5502.380



Base

Base



Gland plate module, vented

for TS, TS IT, SE

Large perforated section for passive enclosure ventilation.

Gland plate depth:

- 237.5 mm

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Filter mat and nylon tape

For enclosure width mm	Packs of	Model No.
600	1 pc(s).	7825.360
800	1 pc(s).	7825.380



Also required:

- Base mount for installation in TS IT, see page 639
- Gland plates for installation in TS IT, see page 635



Gland plate module, one-piece, with brush strip

for TS, TS IT, SE

For simple, sealed cable entry.

Gland plate depth:

- 237.5 mm

Material:

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

Surface finish:

- Module plate: Zinc-plated

Supply includes:

- Assembly parts

For enclosure width mm	Packs of	Model No.
600	1 pc(s).	7825.361
800	1 pc(s).	7825.381



Also required:

- Base mount for installation in TS IT, see page 639
- Gland plates for installation in TS IT, see page 635



Gland plate module, two-piece, with brush strip

for TS, TS IT, SE

Special brush strips with brush strips offset on alternate sides offer maximum possible protection with professional cable entry. The two-piece design even allows retrospective fitting of the base module with the cables already installed.

Gland plate depth:

- 237.5 mm

Design:

- Cable entry with brush strip, super-airtight

Material:

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

Surface finish:

- Module plate: Zinc-plated

Supply includes:

- Assembly parts

For enclosure width mm	Packs of	Model No.
600	1 pc(s).	7825.367
800	1 pc(s).	7825.387



Also required:

- Base mount for installation in TS IT, see page 639
- Gland plates for installation in TS IT, see page 635



Gland plate module for side cable entry

for TS, TS IT, SE

With adjustable openings on both sides and rubber cable clamp strip. The two-piece design even allows retrospective fitting of the base module with the cables already installed.

Gland plate depth:

- 237.5 mm

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

For enclosure width mm	Packs of	Model No.
800	1 pc(s).	7825.388



Also required:

- Base mount for installation in TS IT, see page 639
- Gland plates for installation in TS IT, see page 635



Module plates

for TE

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

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Design compensating panel

Width mm	Depth mm	For enclosure width mm	Model No.
450	50	600	7526.750
450	150	600	7526.755
650	50	800	7526.790
650	150	800	7526.795

Design vented

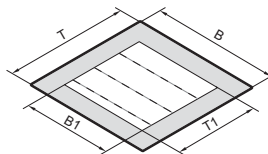
Width mm	Depth mm	For enclosure width mm	Model No.
450	200	600	7526.829
650	200	800	7526.834

Design solid

Width mm	Depth mm	For enclosure width mm	Model No.
450	200	600	7526.760
450	550	600	7526.770
450	750	600	7526.780
650	200	800	7526.800
650	550	800	7526.785
650	750	800	7526.820

Design with brush strip

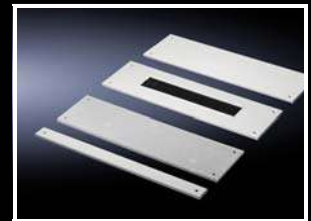
Width mm	Depth mm	For enclosure width mm	Model No.
450	200	600	7526.850
650	200	800	7526.860



Please note the following when selecting suitable module plates:

B1 = Enclosure width (B) - 150 mm

T1 = Enclosure depth (T) - 50 mm



Base

Base



Pressure relief stopper

Especially when enclosures are exposed to changing climatic conditions (e.g. with outdoor siting), condensation may form in sealed enclosures due to pressure differences. The integral sealing membrane largely prevents such pressure differences and hence condensation; additionally, it also prevents the ingress of moisture from the outside. Installed in vertical surfaces to protect against dirt.

Technical specifications:

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

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

Material:

- Polyamide

Colour:

- Similar to RAL9005

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). A hole diameter of 16 mm is required. (With AE sheet steel, the holes are already provided in the base).

Material:

- Polyamide

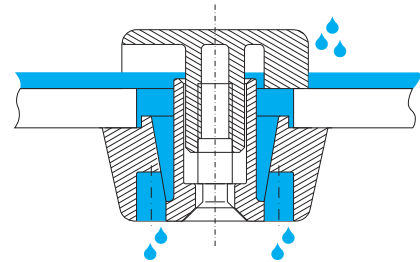
Colour:

- Similar to RAL 7035

Protection category:

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

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



Side panels, screw-fastened, sheet steel

for TS, TS IT

- Automatic potential equalisation and higher EMC protection, thanks to enclosure panel holders with earthing insert
- Easy positioning with the location aid
- Earthing bolt with contact surface

Material:

- Sheet steel, 1.5 mm

Surface finish:

- Dipcoat-primed, powder-coated on the outside

Colour:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 55

Supply includes:

- Assembly parts

Note:

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

For enclosures		Packs of	Model No.
Height mm	Depth mm		
800	600	2 pc(s).	8173.235
1000	600	2 pc(s).	8174.235
1200	500	2 pc(s).	8115.235
1200	600	2 pc(s).	8170.235
1200	800	2 pc(s).	8175.235
1200	1000	2 pc(s).	8176.235
1400	500	2 pc(s).	8145.235
1400	600	2 pc(s).	8146.235
1400	800	2 pc(s).	8148.235
1600	500	2 pc(s).	8165.235
1600	600	2 pc(s).	8166.235
1600	800	2 pc(s).	8168.235
1800	400	2 pc(s).	8184.235
1800	500	2 pc(s).	8185.235
1800	600	2 pc(s).	8186.235
1800	800	2 pc(s).	8188.235
2000	400	2 pc(s).	8104.235
2000	500	2 pc(s).	8105.235
2000	600	2 pc(s).	8106.235
2000	800	2 pc(s).	8108.235
2000	1000	2 pc(s).	8100.235
2200	600	2 pc(s).	8126.235
2200	800	2 pc(s).	8128.235



Accessories:

- Earth straps, see page 762
- Enclosure panel holders, internal, see page 644, for heavy installed equipment and high dynamic pressures
- Hinges, see page 644



Side panels, screw-fastened, stainless steel

for TS

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

Material:

- Stainless steel 1.4301 (AISI 304), 1.5 mm

Surface finish:

- Brushed, grain size 400

Protection category IP to IEC 60 529:

- IP 55

Supply includes:

- Assembly parts

For enclosures		Packs of	Model No.
Height mm	Depth mm		
1800	400	2 pc(s).	8700.840
1800	500	2 pc(s).	8700.850
2000	600	2 pc(s).	8700.060



Accessories:

- Enclosure panel holders, internal, see page 644, for heavy installed equipment and high dynamic pressures



Walls

Side panels



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

for TS

For baying enclosure systems.

- Automatic potential equalisation 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 size 400

Protection category IP to IEC 60 529:

- IP 66

NEMA protection category:

- NEMA 4
- NEMA 4X

Supply includes:

- Assembly parts

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



Enclosure panel fasteners, internal

for TS, SE

For additional fixing of the side or rear panel with heavy installed equipment and high dynamic loads.

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



Hinges

for side panel, screw-fastened, sheet steel

The 180° opening angle allows unhindered access. Optionally installed either from the inside or outside of the enclosure. Simply replace 3 enclosure panel fasteners with hinges. Despite the hinge, the protection category of the enclosure is retained.

Material:

- Die-cast zinc

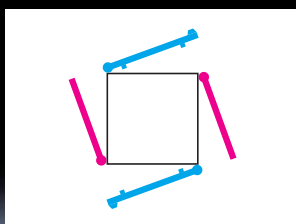
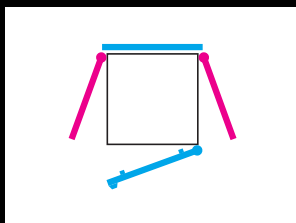
Supply includes:

- Assembly parts

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

Note:

- Side panel and door hinges may only be installed on the same enclosure section when using a 180° door hinge (see page 684)
- Important: Red areas (side panels), hinged and unhinged, must always be opposite one another, and blue areas (doors/rear panels) must always be opposite one another
- Only one surface on each vertical enclosure section may be hinged



Side panels

Side panel, divided, lockable

for TS IT

- Easy handling and tool-free assembly
- Cam lock including security lock 3524 E
- Internal latch for optional retrofitting

Material:

- Sheet steel

Surface finish:

- Dipcoat-primed, powder-coated on the outside

Colour:

- RAL 7035

Supply includes:

- 1 top piece
- 1 bottom piece
- 2 cam locks including security lock 3524 E
- 2 earth conductors
- Assembly parts

For enclosures		Packs of	Model No.
Height mm	Depth mm		
1800	800	1 pc(s).	5501.000
2000	600	1 pc(s).	5501.010
2000	800	1 pc(s).	5501.020
2000	1000	1 pc(s).	5501.030
2000	1200	1 pc(s).	5501.040
2200	800	1 pc(s).	5501.050
2200	1000	1 pc(s).	5501.060
2200	1200	1 pc(s).	5501.070



Accessories:

- Internal latch 7824.510, see page 645



Side panel, lockable

for TS, TS IT

- Simply locate from above
- Lock via security lock no. 3524 E
- Earthing bolt with contact lug

Material:

- Sheet steel

Surface finish:

- Dipcoat-primed, powder-coated on the outside

Colour:

- RAL 7035

Supply includes:

- 8 cam locks including security lock 3524 E

For enclosures		Packs of	Model No.
Height mm	Depth mm		
800	600	2 pc(s).	7824.086
1200	600	2 pc(s).	7824.126
1200	800	2 pc(s).	7824.128
1200	1000	2 pc(s).	7824.120
1800	600	2 pc(s).	7824.186
1800	800	2 pc(s).	7824.188
2000	600	2 pc(s).	7824.206
2000	800	2 pc(s).	7824.208
2000	1000	2 pc(s).	7824.200
2200	600	2 pc(s).	7824.226
2200	800	2 pc(s).	7824.228
2200	1000	2 pc(s).	7824.220



Accessories:

- Internal latch 7824.510, see page 645



Internal latch

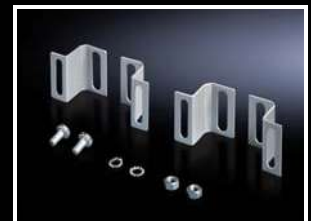
for side panel, lockable and side panel, divided, lockable

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

Supply includes:

- Assembly parts

Packs of	Model No.
4 pc(s).	7824.510



Walls

Side panels



Side panels

for TE 8000

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

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 20

Supply includes:

- 4 cam locks including security lock 3524 E

For enclosure height mm	For enclosure depth mm	Packs of	Model No.
2000	800	2 pc(s).	7888.652
2000	1000	2 pc(s).	7888.653



Corrosion protection primer

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

Benefits:

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

Colour:

- Dark grey

	Contents ml	Packs of	Model No.
Paint pen	12	1 pc(s).	2436.800
Paint tin	1000	1 pc(s).	2438.800



Paint

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

	Colour RAL	Model No.
Touch-up pen 12 ml	7035	2436.735
Tin 1000 ml	7035	2438.735
Spray can 150 ml	7022	2581.000
	7035	2440.735

Divider panels/partitions

Divider panel

for TS

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

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. For mounting on the outer mounting level, leaving the inner level free for further population.

Material:

- Sheet steel, 1.5 mm

Surface finish:

- Zinc-plated

Protection category IP to IEC 60 529:

- IP 54

Supply includes:

- Assembly parts

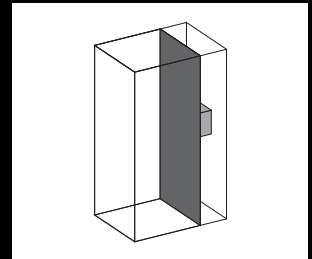
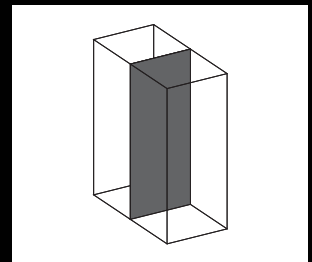
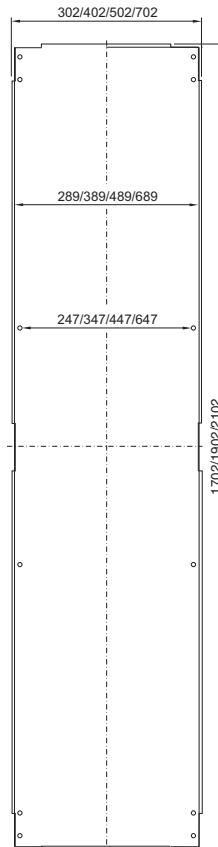
Note:

- The divider panel can also be fitted at the rear, allowing e.g. frequency converters for heat dissipation to be installed in a divider panel with the cooling units facing outwards and protected/finished off with a cover (see page 650)

+ Accessories:

- Cover with door, see page 650
- Baying attachment, vertical 8800.470 for enclosures with fitted divider panel, see page 656

For enclosures		Model No.
Height mm	Depth mm	
1800	400	8609.840
1800	500	8609.850
1800	600	8609.860
2000	400	8609.040
2000	500	8609.050
2000	600	8609.060
2000	800	8609.080
2200	600	8609.260



Partition

for TS IT

For rack mounting, suspended between two enclosures. With 3 Ø 40 mm holes in all 4 corner areas for the insertion of cables, conduits etc. Drilled holes may be sealed with the enclosed stepped collars. For cable entry, simply cut off at a suitable level to match the required cross-section.

Material:

- Partition: Sheet steel
- Stepped collar: Plastic to UL 94-HB

Surface finish:

- Partition: Zinc-plated

Supply includes:

- 12 stepped collars, Ø 40 mm

For enclosures		Packs of	Model No.
Height mm	Depth mm		
2000	1000	1 pc(s).	7831.723
2000	1200	1 pc(s).	7831.724
2200	1000	1 pc(s).	7831.725
2200	1200	1 pc(s).	7831.726

Note:

- Not suitable for use in conjunction with a baying seal. Any existing seals must be removed prior to installation

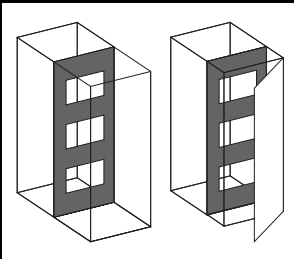
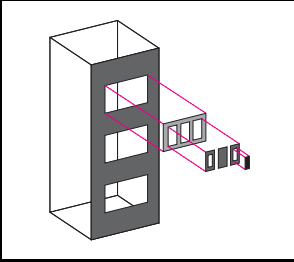
+ Accessories:

- Baying clamp 8800.490, see page 654



Walls

Divider panels/partitions



The divider panel and module plate system

More options:

The cut-outs of a divider panel 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 this new divider panel system, cut-outs need not be covered individually. The solid module plate is used instead. The benefit: Less plates, less screws, less assembly work.

Divider panel

for module plates TS

With cut-outs for the installation of module plates for connectors or for cable entry, and also for the entry of busbar systems and other installed equipment. All-round, double fold for stability and to hold the seal. Thanks to the symmetry of the enclosure frame, divider panels may also be fitted at the rear, dimensions permitting. For mounting on the outer mounting level, leaving the inner level free for further population.

Material:

- Sheet steel, 2 mm

Surface finish:

- Zinc-plated

Supply includes:

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

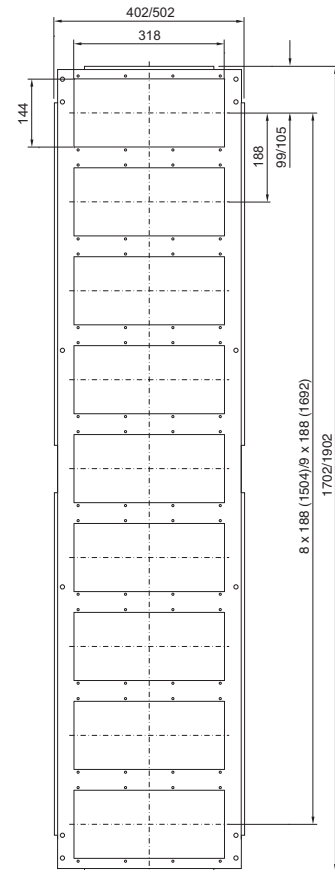
Note:

- 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 649
- Cover with door, see page 650
- Baying attachment 8800.470 for enclosures with fitted divider panel, see page 656



For enclosures		Number of cut-outs	Model No.
Height mm	Depth mm		
1800	500	9	8609.100
1800	600	9	8609.110
2000	500	10	8609.120
2000	600	10	8609.130

Divider panels/partitions

Module plates

Material:

- Sheet steel, 2 mm

Surface finish:

- Zinc-plated

Supply includes:

- Seal

Version	Cut-outs	Packs of	Model No.
Solid	-	1 pc(s).	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 sleeve	1	1 pc(s).	8609.390

Solid

For sealing 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 pitch pattern of the enclosure and to the rails of the TS/PS system.



Accessories:

- Adaptor, cover plate, see page 650
- Connector gland for connector cut-outs, see page 778
- Connector gland sealing frame and sealing module, see page 779

For cable entry

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



Accessories:

- Cable tie for fast assembly 2597.000, see page 785

With cable sleeve

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



Walls

Divider panels/partitions



Adaptor

for connector cut-outs

For using connectors with varying numbers of poles.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Seal and assembly parts

For reduction	Packs of	Model No.
from 24 to 16 poles	5 pc(s).	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



Cover plate

for connector cut-outs

For unused cut-outs.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Seal and assembly parts

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



Cover with door

for TS

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

Material:

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

Colour:

- 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 mm	Depth mm	
2000	500	8609.020
2000	600	8609.030

Accessories:

- Lock inserts, version F, see page 680
- Comfort handle, see page 674
- 180° hinge, see page 684

Isolator door lock

TS isolator door cover (US version)

Including main door latch for safety locking of enclosures and bayed enclosure suites in accordance with US regulations, only in conjunction with actuator lever for master switches from:

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

A detailed type overview can be found in the product description on our website

Benefits:

- In combination with
 - Operating mechanism
 - Adjacent door latch
 - Interconnecting rods
 meets 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 standard single-door TS 8 enclosures may be configured as isolator door enclosures. The complete installation surface of the enclosure is retained.
- In conjunction with the integrable TS 8 mounting plate infill, see page 702, the mounting surface of the main enclosure can be enlarged by around 14%

Note:

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

Material:

- Sheet steel

Surface finish:

- Powder-coated

Colour:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 55

Protection category to NEMA:

NEMA 12

Supply includes:

- Main door lock, cover plate and assembly parts

Width mm	Height mm	Depth mm	Model No.
100	1800	400	8950.840
100	1800	500	8950.850
100	2000	500	8950.050
100	2000	600	8950.060

! Also required:

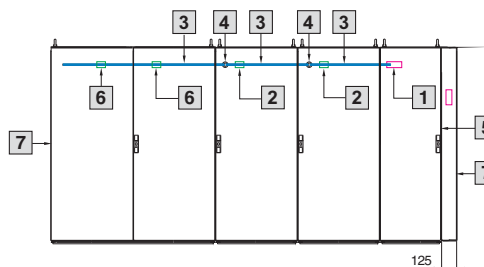
- Operating mechanism, 4912.000, for enclosure with isolator door cover and additionally every fourth adjacent enclosure, see page 651
- Adjacent door latch, 4911.000, 4911.100, for every adjacent enclosure, see page 651
- Interconnecting rods, for every adjacent enclosure in the appropriate enclosure width, see page 651
- Side panel TS, screw-fastened, see page 643

+ Accessories:

- Mounting plate infill, see page 702

Isolator door lock (US version)

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



Door latch for bayed enclosure suites

For extending the door locking of commercially available master switches to bayed suites TS. Adjacent doors cannot be opened until the main door has been opened.

1 Operating mechanism

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

2 Adjacent door latch

Installation in adjacent enclosure

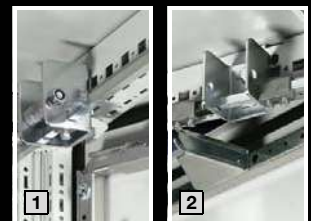
3 Interconnecting rods

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 latch for Single-door enclosures	1 pc(s).	4911.000
Two-door enclosures	1 pc(s).	4911.100

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



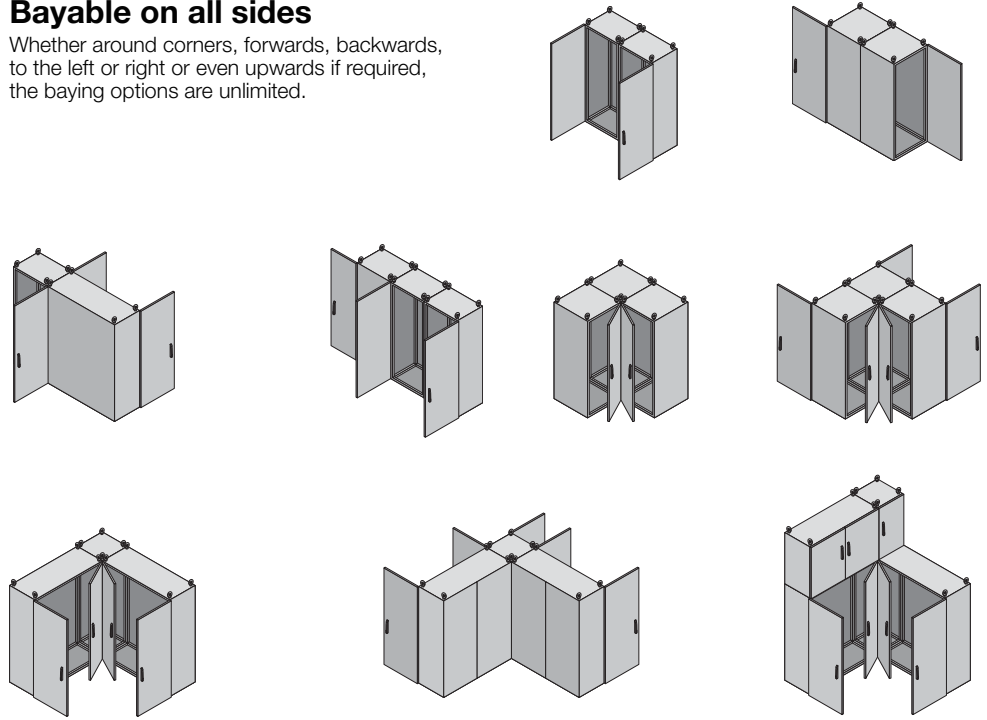
Baying system

Baying



Bayable on all sides

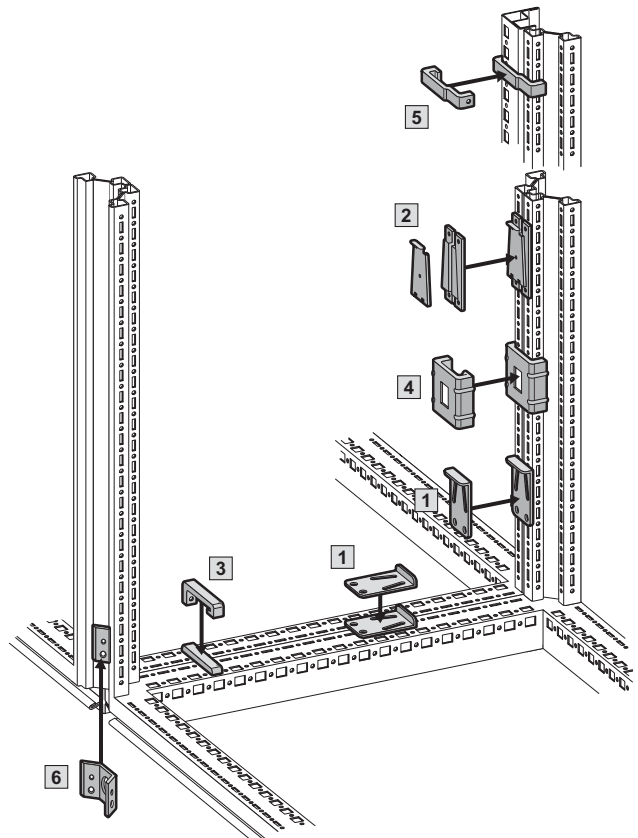
Whether around corners, forwards, backwards, to the left or right or even upwards if required, the baying options are unlimited.



For baying at the installation site or for provisional siting in the workshop

- 1 Quick-fit baying clamp, one-piece
- 2 Quick-fit baying clamp, 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 the transportation of bayed enclosures, see page 654



Baying system

Baying

1 Quick-fit baying clamp, one-piece

for TS/TS

Simply attach the screws, insert the quick-fit baying clamp, tap in with a hammer and lock.

Material:

– Sheet steel

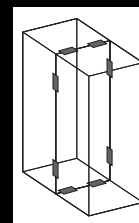
Surface finish:

– Zinc-plated

Supply includes:

– Assembly parts

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



2 Quick-fit baying clamp, three-piece

for TS/TS

Simply locate, connect with the lock plate, and secure.

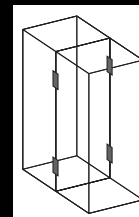
Material:

– Sheet steel

Surface finish:

– Zinc-plated

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



3 Baying clamp, horizontal

for TS/TS, TS/PS

For mounting on the horizontal enclosure sections.

Material:

– Cast steel

Surface finish:

– Zinc-plated

Supply includes:

– Assembly parts

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



4 Baying clamp, vertical

for TS/TS

For mounting on the vertical enclosure sections.

Material:

– Sheet steel

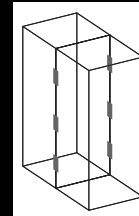
Surface finish:

– Zinc-plated

Supply includes:

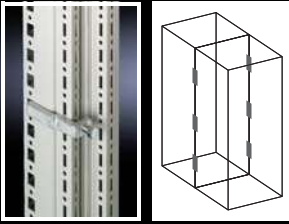
– Assembly parts

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



Baying system

Baying



4 Baying clamp, vertical

for TS/PS

For mounting on the vertical enclosure sections.

Material:

- Cast steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

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



6 Baying connector, external

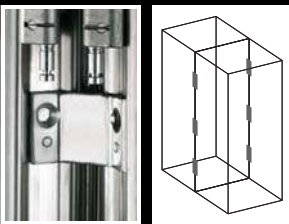
for TS/TS

For mounting on the vertical enclosure sections. Simply position on the outside and screw-fasten either from the inside or outside.

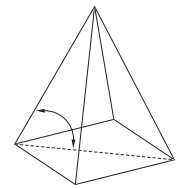
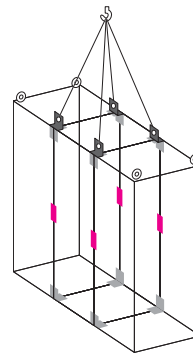
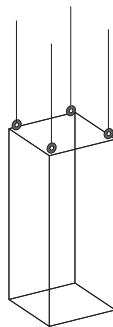
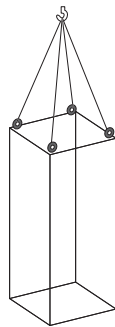
Supply includes:

- Assembly parts

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



Notes on the transport of bayed enclosures



Individual enclosures may be safely transported using the eyebolts included with the supply. For symmetrical loads, the following maximum permissible loads apply:
 for 45° cable pull angle 4,800 N,
 for 60° cable pull angle 6,400 N,
 for 90° cable pull angle 13,600 N.

Note:

- The eyebolts must be aligned in the direction of the cable pull

For the enclosure combination shown here with angular baying brackets, quick-fit baying clamps and combination angles, the load capacity with a cable pull angle of 60° is as follows:
 for the left-hand enclosure 7,000 N,
 for the middle enclosure 14,000 N,
 for the right-hand enclosure 7,000 N.

The cable pull angle between the roof plate and the cable has a significant influence on the total permissible load.

The cable pull angle must not be less than 45°, and ideally not less than 60°.

When transporting bayed enclosures

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

Note:

- In addition, an external baying connector (see page 654) can be used for reinforcement
- When transporting large, heavy enclosure combinations by crane, we additionally recommend the use of combination angles 4540.000, see page 656



Also required:

- For protection category IP 55:
One quick-fit baying clamp is required half-way up the enclosure height, see page 653

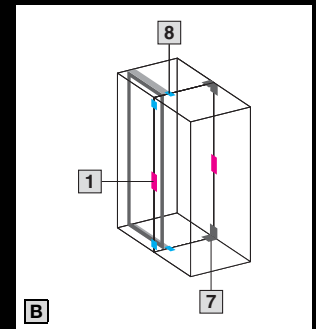
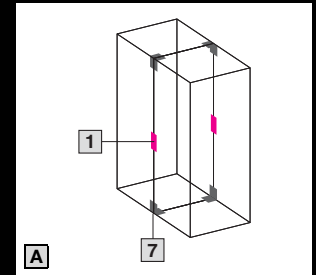
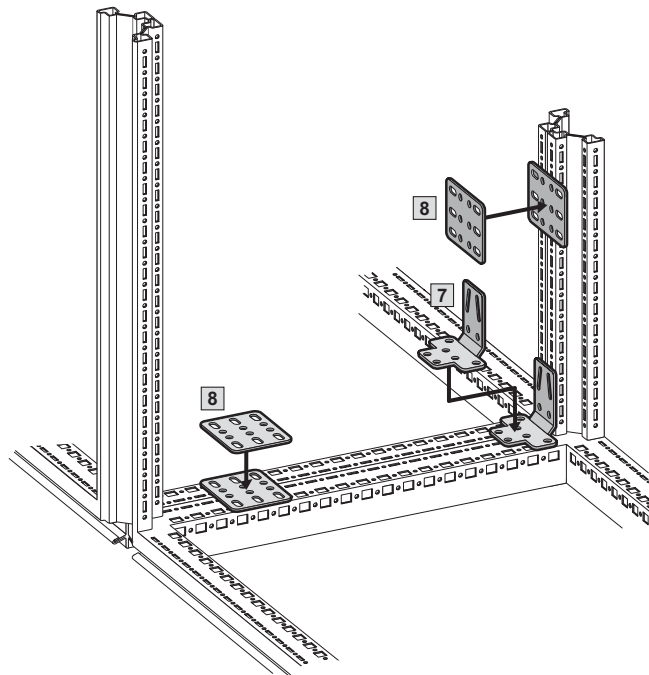
Notes on the transportation of bayed enclosures, see page 654

Example A

- 1 2 quick-fit baying clamps
8800.500
(see page 653)
- 7 4 angular baying brackets
8800.430
(see page 655)

Example B

- 1 2 quick-fit baying clamps
8800.500
(see page 653)
- 7 2 angular baying brackets
8800.430
(see page 655)
- 8 4 baying brackets
4582.500
(see page 656)
if the angular baying brackets cannot be fitted in the foremost installation position due to installed equipment such as large swing frames



7 Angular baying bracket

for TS/TS

For a stable connection when transporting bayed enclosure suites.

Screw-fastening either

- Horizontally and vertically with 8 screws
 - Horizontally with 2 screws and M8 threaded blocks, vertically with 4 screws
- is supported

Material:

- Sheet steel

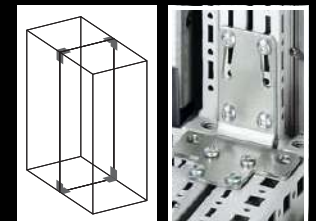
Surface finish:

- Zinc-plated

Supply includes:

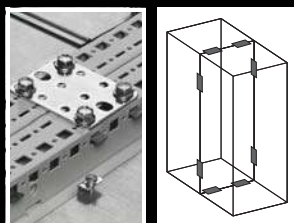
- Assembly parts

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



Baying system

Baying



8 Baying brackets

for TS/TS and TS/PS

For additional stabilisation, or in cases where

- Mounting plate brackets
- Swing frames
- Busbar supports

prevent the installation of an angular baying bracket

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

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

+ Accessories:

- For mounting on the vertical TS enclosure section:
Snap-on nut M8, 8800.808, see page 729



Angular baying brackets

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

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

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

! Also required:

- For mounting on the horizontal TS enclosure section:
Cage nuts/threaded blocks M8, see page 736
- For mounting on the vertical TS enclosure section:
Snap-on nut M8, 8800.808, see page 729



Combination angle

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

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

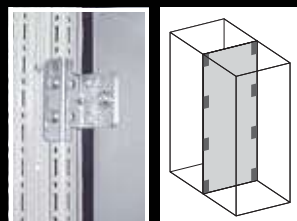
- Assembly parts

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

+ Accessories:

- Top baying cover, see page 658

Notes on the transportation of bayed enclosures, see page 654



Baying attachment, vertical

for TS/TS with divider panel

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

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

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 section.

Simply locate into the vertical TS punchings, secure and connect both brackets using the hex screws (supplied loose).

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:

- Sheet steel

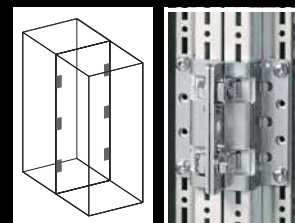
Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

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



Baying cover, vertical

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

Material:

- Cover section: Plastic

Colour:

- RAL 7035

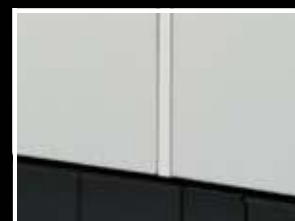
Supply includes:

- Assembly parts

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

! Also required:

- Baying clamp, exterior, 8800.490, see page 654



Baying clamp, horizontal for back-to-back mounting

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

Material:

- Sheet steel

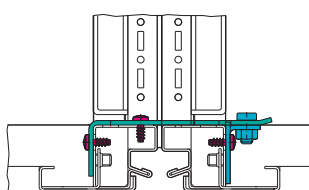
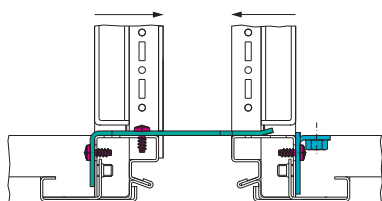
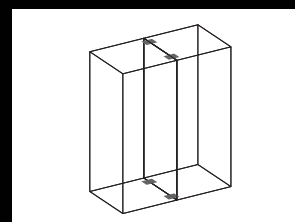
Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

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



Baying system

Baying



Baying cover, top

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

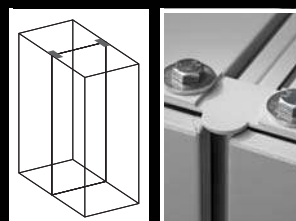
Supply includes:

- Assembly parts
- 2 end caps

Note:

- May also be fitted in the width with enclosure suites bayed back-to-back
- May also be used in conjunction with dust guard trim, see page 691

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

- Sheet steel

Colour:

- RAL 7035

Supply includes:

- Assembly parts

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



Baying kit

for TE/TE

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

Benefits:

- Baying of TE 8000 to TE 7000 enclosures is supported

Packs of	Model No.
4 pc(s).	7888.640

Material:

- Sheet steel, spray-finished

Colour:

- RAL 7035

Supply includes:

- Assembly parts



Baying kit

for KL, AE

Special screws and nuts

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

Seal, self-adhesive

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

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

Packs of	Model No.
1 pc(s).	1199.100

Supply includes:

- Sealing elements
- Assembly parts



Door variants

Tubular door frame

for TS, TS IT

To fit enclosures

- TS with width 400 mm
- TS IT with solid, vertically divided sheet steel doors

Application:

- For vertical mounting on the threaded bolts of the door

Material:

- Tube section: Sheet steel
- Corner connectors: Plastic

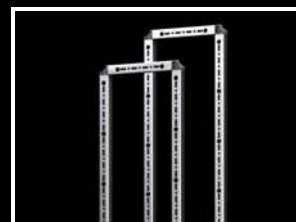
Surface finish:

- Tube section: Zinc-plated

Supply includes:

- Assembly parts

For doors		Packs of	Model No.
Width mm	Height mm		
300	2000	2 pc(s).	5501.200
400	2000	2 pc(s).	5501.210



Glazed door

for TS, TS IT, SE

Instead of a sheet steel door or rear panel.

Material:

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

Surface finish:

- Powder-coated

Colour:

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

Protection category IP to IEC 60 529:

- IP 55

Supply includes:

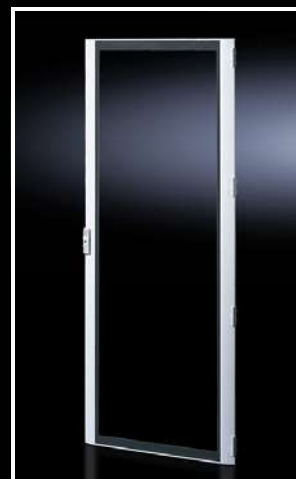
- Glazed door frame with safety glass
- Locking rod with double-bit lock insert
- 180° hinges, 4 pc(s).
- Visible area: W -140 mm, H -160 mm

For enclosures		Model No.
Width mm	Height mm	
600	1800	8610.685
800	1800	8610.885
600	2000	8610.605
800	2000	8610.805
600	2200	8610.625
800	2200	8610.825



Also required:

- When mounting instead of the rear panel or double door: Lock components for frame 8800.040, see page 660



Handle adaptor

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

Material:

- Plastic

Supply includes:

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

For glazed door TS

Colour	Model No.
RAL 7035	8611.080

For designer door IW and PC, bottom door

Colour	Model No.
RAL 7035	8611.300

Doors/locks

Door variants



Lock components

for TS, TS IT, SE

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

Material:

- Die-cast zinc

Supply includes:

- Assembly screws

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



Glazed door, vented

for TS, TS IT, SE

Surface perforated on both sides with air inlet openings > 78% for optimum air throughput.

Material:

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

Surface finish:

- Powder-coated

Colour:

- RAL 7035

Supply includes:

- Glazed door, vented
- Comfort handle for semi-cylinders with security lock 3524 E
- 180° hinges, 4 pc(s).
- Assembly parts

For enclosures		Packs of	Model No.
Width mm	Height mm		
600	2000	1 pc(s).	7824.201
800	2000	1 pc(s).	7824.202
800	2200	1 pc(s).	7824.222



Accessories:

- 180° hinge for bayed TS enclosure suites with comfort handle 7824.520, see page 684



Assembly instruction:

- For TS enclosure suites with sheet steel doors, only the 180° hinge 7824.520 may be used



Lockable and adjacent door

for TS, TS IT, SE

For example, if two 400 mm doors instead of one 800 mm wide door are used to comply with escape routes.

Material:

- Sheet steel

Surface finish:

- Dipcoat-primed, powder-coated on the outside

Protection category IP to IEC 60 529:

- IP 55

Supply includes:

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

For enclosures		Colour RAL	Model No.
Width mm	Height mm		
800	2000	7035	8801.450



Accessories:

- Lock system, see page 674

Protective bar

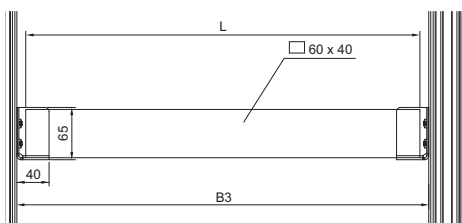
for TS, SE

As an alternative to a door, e.g. in sealed switch rooms. Prevents people from falling into the open enclosure frame. Easily removable for maintenance purposes.

For 1200 mm enclosure width; may be shortened or divided for other sizes.

Material:

- Wood, spray-finished, RAL 3000



For enclosure width mm	Length mm	Packs of	Model No.
1200	1090	1 pc(s).	8801.010

Enclosure width mm	Clearance between the enclosure frame (B3) mm	Length of protective bar (L) mm
400	312	290 ¹⁾
600	512	490 ¹⁾
800	712	690 ¹⁾
1000	912	890 ¹⁾
1200	1112	1090

¹⁾ The protective bar 8801.010 (1090 mm) will need to be shortened



Holder

for protective bars

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

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

Packs of	Model No.
2 pc(s).	8801.000



Variable modular climate control concept

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



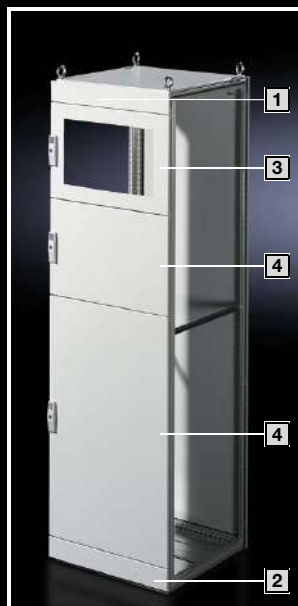
Possible alternative:

- Modular climate control concept, see page 434/435



Doors/locks

Installation accessories for modular front design TS



Modular front design

for TS 8 baying systems

(see page 89)

Suitable for 400, 600 and 800 mm wide TS enclosures instead of a door or rear panel. The partial doors with and without viewing panels including cross members may be combined with one another as required. A trim panel is required at the top and bottom in each case. The requirements for your individual front design and the considerations which must be taken into account are illustrated on the sample configuration opposite.

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

Protection category IP to IEC 60 529:

- IP 54 for a completed enclosure



Partial doors

for TS

The door may be optionally hinged on the right or left. The partial door is attached to the TS enclosure with no drilling required. In the case of partial doors without a viewing panel (height 600 – 1000 mm), monitor frame 2305.000 may be installed. Standard double-bit lock insert may be exchanged for lock inserts, type F, and from a height of 600 mm, for comfort handles.

Material:

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

Surface finish:

- Textured paint

Colour:

- RAL 7035

Supply includes:

- Cross member, hinges and lock components
- Assembly parts



Also required:

- Front trim panels, see page 663 or top-hinged trim panel, see page 664
- Front trim panels, bottom, see page 663



Accessories:

- Monitor frame 2305.000, see page 668
- Lock inserts, version F, see page 680
- Comfort handle, see page 674
- Perforated mounting strips, see page 663

For enclosure width 400 mm

Height mm	With viewing window	Packs of	Model No.
150	-	1 pc(s).	9672.141
200	-	1 pc(s).	9672.142
300	-	1 pc(s)	9672.143
400	-	1 pc(s).	9672.144
600	-	1 pc(s).	9672.146
800	-	1 pc(s).	9672.148
1000	-	1 pc(s).	9672.140
1600	-	1 pc(s).	9672.156
1800	-	1 pc(s).	9672.158
2000	-	1 pc(s).	9672.150

For enclosure width 600 mm

Height mm	With viewing window	Packs of	Model No.
150	-	1 pc(s).	9672.161
200	-	1 pc(s).	9672.162
300	-	1 pc(s).	9672.163
400	-	1 pc(s).	9672.164
600	-	1 pc(s).	9672.166
600	■	1 pc(s).	9672.167
800	-	1 pc(s).	9672.168
800	■	1 pc(s).	9672.169
1000	-	1 pc(s).	9672.160
1600	-	1 pc(s).	9672.176
1800	-	1 pc(s).	9672.178
2000	-	1 pc(s).	9672.170

For enclosure width 800 mm

Height mm	With viewing window	Packs of	Model No.
150	-	1 pc(s).	9672.181
200	-	1 pc(s).	9672.182
300	-	1 pc(s).	9672.183
400	-	1 pc(s).	9672.184
600	-	1 pc(s).	9672.186
600	■	1 pc(s).	9672.187
800	-	1 pc(s).	9672.188
1000	-	1 pc(s).	9672.180
1600	-	1 pc(s).	9672.196
1800	-	1 pc(s).	9672.198
2000	-	1 pc(s).	9672.190

Installation accessories for modular front design TS

Perforated mounting strips

for partial doors

For retrospective external mounting. The perforated mounting strips have a 25 mm pitch pattern of holes and may be used for individual mountings on the rear side of the door, e.g. cable ducts, hose holders etc.

Hole diameter of perforated mounting strip: 4.5 mm

Material:

- Sheet steel, 1 mm

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

For enclosure width mm	Length mm	For partial door height mm	Packs of	Model No.
400	298	150 – 800	10 pc(s).	9671.204
600	498	150 – 800	10 pc(s).	9671.206
800	698	150 – 800	10 pc(s).	9671.208



Front trim panels, top

for TS

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

Material:

- Sheet steel, 2 mm

Surface finish:

- Textured paint

Colour:

- RAL 7035

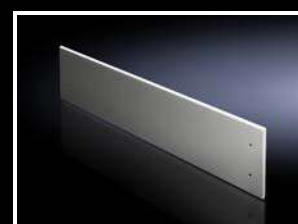
Protection category IP to IEC 60 529:

- IP 54

Supply includes:

- Assembly parts

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



Front trim panels, bottom

for TS

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

Material:

- Sheet steel, 2 mm

Surface finish:

- Textured paint

Colour:

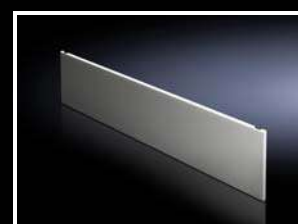
- RAL 7035

Supply includes:

- Front trim panel including cross member
- Assembly parts

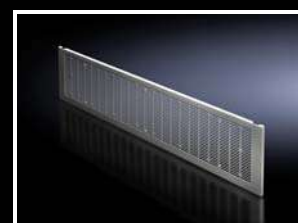
Protection category IP 54

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



Protection category IP 2X

For enclosure width mm	Height mm	Packs of	Model No.
400	300	1 pc(s).	9672.354
600	300	1 pc(s).	9672.356
800	300	1 pc(s).	9672.358



Also required:

Roof plate IP 2X, see page 693

Accessories:

Upgrade kit IP 4X, see page 665

Doors/locks

Installation accessories for modular front design TS



Trim panel, hinged at the top

for TS

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

- Modular front design
- Protective bar TS

Material:

- Sheet steel, 2 mm

Surface finish:

- Textured paint

Colour:

- RAL 7035

Supply includes:

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

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

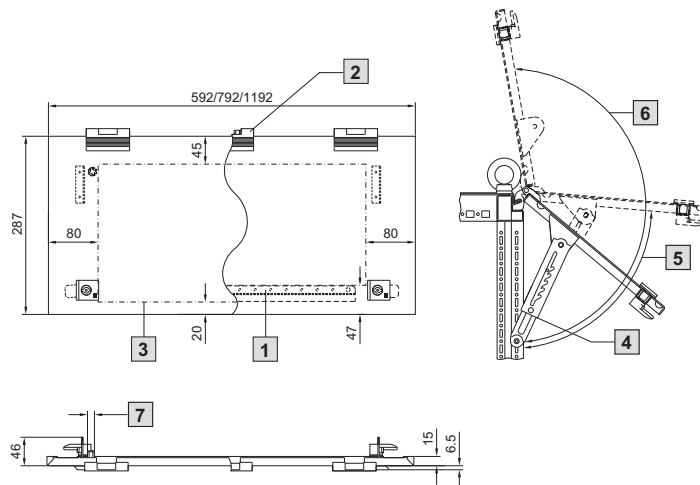
Note:

- Not in combination with top-mounting module for TS (see page 692)



Accessories:

- Stay for trim panel, hinged at the top, see page 664
- Lock inserts, type A, see page 680



1 Only for width 800 mm and 1200 mm

2 Only for width 1200 mm

3 Usable interior area

4 Optional: Stay 8801.260

5 Maximum opening angle with stay approx. 85°

6 Maximum opening angle without stay approx. 190°

7 Earthing bolt M8



Drawer

for TS

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

A high level of protection is retained, 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 handles, type B.

Material:

- Sheet steel

Colour:

- RAL 7035

Height mm	Width mm	Model No.
200	600	8801.715
200	800	8801.915

Supply includes:

- Flap and assembly parts
- Cross member



Accessories:

- Lock inserts, 27 mm, type A, see page 680
- Plastic handle, type B, see page 679
- T handles, type B, see page 679



Support stay

for trim panel, hinged at the top

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

Material:

- Sheet steel

Surface finish:

- Zinc-plated

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

Installation accessories for modular front design TS

Upgrade kit IP 4X

for front trim panels, bottom

To increase the protection category of the bottom front trim panel from IP 2X to IP 4X. The upgrade kit is attached to the front trim panel from the inside and secured.

Material:

- Sheet steel (expanded metal)

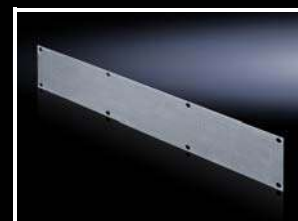
Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

For enclosure width mm	For front trim panel height mm	Packs of	Model No.
400	300	1 pc(s).	9672.384
600	300	1 pc(s).	9672.386
800	300	1 pc(s).	9672.388



Wiring system

for Ri4Power with internal compartmentalisation

The wiring system facilitates vertical and horizontal cable routing in conjunction with internal Form 2-4 separation.

For vertical cable routing, pre-punched cut-outs are provided in the mounting brackets for compartment dividers, which can easily be knocked out and used to install a vertical wiring channel.

Horizontal cable routing occurs behind the front trim panels. This entails fitting a wiring trim panel which is suitable for accommodating a wiring channel while at the same time concealing the busbar system.

Wiring trim panel

Inner front cover of the main busbar system with the option of mounting a wiring channel size W x D 40 x 20 mm. For use in Ri4Power switchgear with 300 mm high front trim panels.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

For enclosure width mm	Packs of	Model No.
400/600	1 pc(s).	9674.550
800/1000/1200	1 pc(s).	9674.560



Doors/locks

Viewing panels/operating panels



System window

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

Consisting of the following 2 components:

1. Base frame:

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

2. Viewing window:

- Made from single-pane safety glass:
 - High level of resistance to solvents and scratches
 - Anti-static
 - Reduced risk of injury if broken
- Cam lock with double-bit insert, may be exchanged for lock inserts, type A, and semi-cylinders in the Ergoform-S lock system (not with 2735.500 and .560)
- Hinge with 180° opening angle, easily inserted

Material:

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

Surface finish:

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

Protection category IP to IEC 60 529:

- IP 54

Note:

- Not suitable for outdoor siting

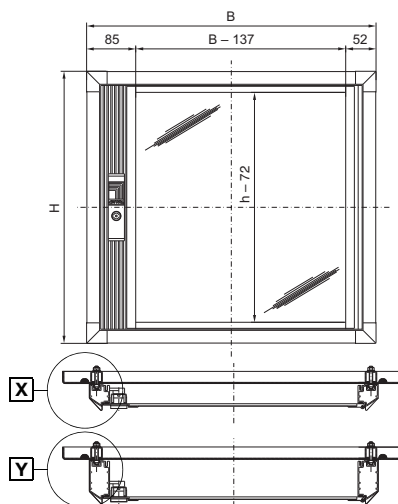
30 section

To fit TS, SE with width mm	Window size, exterior mm		Model No.
	B	H	
600	500	270	2735.500
		370	2735.510
		470	2735.520
		570	2735.530
800	700	670	2735.540
		270	2735.560
		370	2735.570
		470	2735.580
		570	2735.590
		670	2735.250

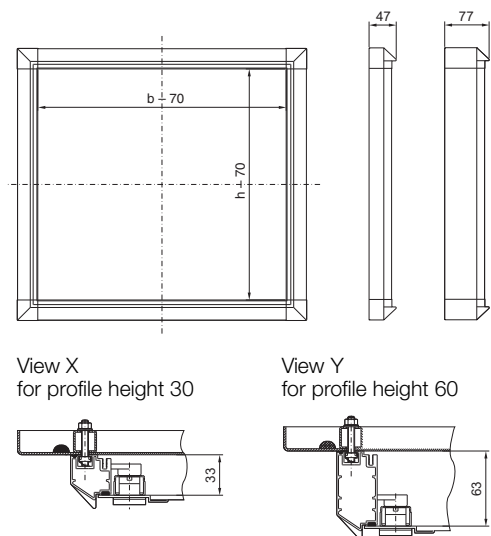
60 section

To fit TS, SE with width mm	Window size, exterior mm		Model No.
	B	H	
600	500	370	2736.510
		470	2736.520
		570	2736.530
		670	2736.540
800	700	670	2736.500

Standard double-bit lock insert may be exchanged for lock inserts 27 mm, type A, see page 680 and for lock system Ergoform-S (except H = 270 mm), see page 678



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



Viewing panels/operating panels

Viewing window

For mounting on

- AE instead of door
- Surfaces

Max. installation depth: (depth -4 mm)

Visible area: (width -60 mm) x (height -60 mm)

Material:

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

Protection category IP to IEC 60 529:

- IP 54

Supply includes:

- Plastic handle with lock insert no. 3524 E

Depth = 34 mm

For use as door variant with	Width mm	Height mm	Model No.
1050.500, 1350.500, 1007.600	497	497	2733.000
-	597	197	2734.000
1039.500, 1339.500, 1009.600, 7641.000	597	377	2730.000
1010.600, 1054.500, 1060.500, 1360.500, 7643.000	597	597	2731.000
1012.600, 1076.500, 1376.500, 7645.000	597	757	2732.000

Depth = 60 mm

For use as door variant with	Width mm	Height mm	Model No.
1050.500, 1350.500, 1007.600	497	497	2763.000
1039.500, 1339.500, 1009.600, 7641.000	597	377	2760.000
1010.600, 1054.500, 1060.500, 1360.500, 7643.000	597	597	2761.000
1012.600, 1076.500, 1376.500, 7645.000	597	757	2762.000



Horizontally hinged FT stay

For external mounting on surfaces. A gas pressurised spring holds the viewing window securely open (top or side). When the viewing window is closed, the gas pressurised spring disappears into the frame section.

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



Acrylic glazed cover

With security lock, lock no. 3524 E.

Material:

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

Protection category IP to IEC 60 529:

- IP 54

Acrylic glazed covers, 482.6 mm (19")

U	Width mm	Height mm	Depth mm	Model No.
3	320	158	47.5	2780.000
3	534	158	47.5	2781.000
6	534	291.5	47.5	2782.000
9	534	425	47.5	2796.000

Max. installation depth: 43 mm

Visible area: (width -40 mm) x (height -20.5 mm)

Metric acrylic glazed covers

Width mm	Height mm	Depth mm	Model No.
400	200	47.5	2784.000
400	400	47.5	2785.000
500	200	47.5	2786.000
500	400	47.5	2787.000
600	200	47.5	2788.000
600	400	47.5	2789.000

Max. installation depth: 43 mm

Visible area: (width -40 mm) x (height -20.5 mm)



Doors/locks

Viewing panels/operating panels



Viewing window

Stainless steel

Fitted as standard with internal 130° hinges and all-round seal. The double-bit lock insert may be exchanged for 27 mm lock inserts, type A, and Ergoform-S handle 2452.000.

Material:

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

Protection category IP to IEC 60 529:

- IP 54

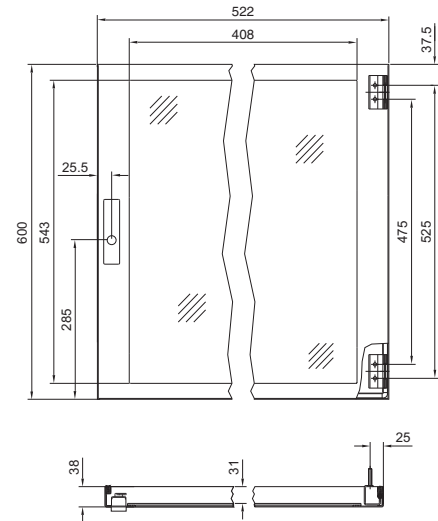
Supply includes:

- Assembly parts

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

⊕ Accessories:

- Lock inserts, 27 mm, type A, see page 680
- Ergoform-S handle 2452.000, see page 678



Monitor frame

for door width 600 and 800 mm

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

Protection category IP to IEC 60 529:

- IP 54

Supply includes:

- Safety glass panel

Dimensions	Width mm	Height mm	Model No.
External dimensions	470	430	2305.000
Viewing area	375	325	
Cut-out required	415	375	



Identification strips

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

For labels:

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

Colour:

- RAL 7033

For enclosure width mm	Model No.
600	2403.000
800	2404.000



Viewing panels/operating panels

Operating panel

For mounting on

- AE instead of door
- Surfaces

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

Material:

- Aluminium, natural anodised

Protection category IP to IEC 60 529:

- IP 54

Supply includes:

- Aluminium frame
- Display panel
- Hinges
- Brackets

For use as door variant for AE	Width mm	Height mm	Depth mm	Model No.
1001.600 1002.600 1002.600 1032.500 1035.500	197	297	34	2740.000 ¹⁾
1004.600 1011.600 1030.500 1031.500	377	297	34	2741.000
1006.500 1006.600 1380.500	377	377	34	2742.000
1008.600 1038.500 1338.500	377	597	34	2743.000
1007.600 1013.600 1050.500 1350.500	497	497	34	2745.000
1009.600 1039.500 1339.500	597	377	34	2744.000
1010.500 1010.600 1060.500 1360.500	597	597	34	2746.000

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

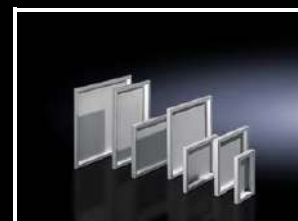
Area available for population:
(width -70 mm) x (height -70 mm)

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



Accessories:

- Cam lock 2749.000, see page 669



Cam lock

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

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



Accessories:

- Lock inserts, type C, see page 680
- Plastic handle, type C, see page 679



Viewing window

for display panel

For the protection of display and control components. With a build height of max. 35 mm.

Material:

- Frame: Aluminium, natural anodised
- Glazed panel: Smoked acrylic

Supply includes:

- Lock insert no. 3524 E

For display panel	Model No.
2741.000	2791.000
2742.000	2792.000



Doors/locks

Allocation of lock systems

Compact enclosures, sheet steel

		Enclosure series								
		EB	BG	AE wall-mounted enclosures AE			CM	KS		EL 3-part
Application		-				-				
	from page	46	With cam 48	With cam 58	With 3-point lock 60	62	With cam 64	With 3-point lock 65	3 - 15 U 137	18 - 21 U 137

Handle systems for enclosures

Comfort handle										
For lock inserts	674	-	-	-	-	-	-	-	-	■
For padlock and lock inserts	674	-	-	-	-	-	-	-	-	■
With security lock insert E1	674	-	-	-	-	-	-	-	-	■
For semi-cylinder	674	-	-	-	-	-	-	-	-	■
Prepared for ASSA lock system	674	-	-	-	-	-	-	-	-	■
Mini comfort handle (from AE enclosure height 380 mm, from AE enclosure width 300 mm)										
For lock inserts	677	-	-	■	-	-	-	-	■	-
For semi-cylinder	677	-	-	■	-	-	-	-	■	-
Ergoform-S handle										
Standard	678	-	-	-	■	-	-	-	-	-
Special with security lock insert E1	678	-	-	-	■	-	-	-	-	-
Specially prepared for ASSA lock system	678	-	-	-	■	-	-	-	-	-
Standard for KS plastic enclosures	678	-	-	-	-	-	-	■	-	-
Folding lever handle										
For lock inserts	675	-	-	-	-	■	-	-	-	-
For padlock and lock inserts	675	-	-	-	-	■	-	-	-	-
With security lock insert E1	675	-	-	-	-	■	-	-	-	-
Semi-cylinder lock										
For AE	681	-	-	■	-	-	-	-	-	-
Plastic handles										
Type B	679	■	■	■	-	-	-	-	-	-
Type E	679	-	-	-	-	-	■	-	-	-
T handles										
Type B	679	■	■	■	-	-	-	-	-	-
Lock inserts for enclosures										
Lock inserts										
Type A	680	■	■	■	■	-	-	-	-	-
Type E	680	-	-	-	-	-	■	■	-	-
Type F	680	-	-	-	-	■	-	-	■	■
Lock cylinder inserts										
Type B	681	■	■	■	-	-	-	-	-	-

Lock inserts for handle systems				
Semi-cylinder		Lock inserts		
Lock and push-button inserts	DIN 18 252	Type A	Type F	Lock and push-button inserts
675	675	680	680	675

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

Large enclosures, sheet steel

		Enclosure series			
		TS, TS IT, SE	TE	PC enclosure	
Application				Door	For keyboard drawer or fold-out tray
	from page	74	128	156	156
Handle systems for enclosures					
Comfort handle					
For lock inserts	674	■	-	■ ²⁾	-
For padlock and lock inserts	674	■	-	■ ²⁾	-
For semi-cylinder	674	■	-	■ ²⁾	-
With security lock insert E1	674	■	-	■ ²⁾	-
Prepared for ASSA lock system	674	■	-	■ ²⁾	-
With code	674	■	-	■ ¹⁾	-
Ergoform-S handle					
Standard	678	-	■	-	-
Special with security lock insert E1	678	-	■	-	-
Special, prepared for ASSA lock system	678	-	■	-	-
Lock inserts for enclosures					
Lock inserts					
Type A	680	-	■	-	■
Type F	680	■	-	■	-

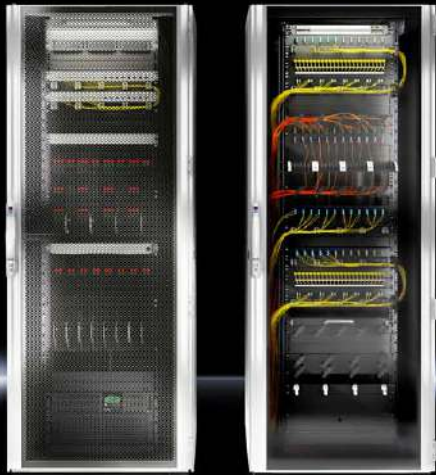
¹⁾ Only suitable for use with rear door

²⁾ Only in conjunction with the handle adaptor for comfort handle 8611.300, see page 659

Lock inserts for handle systems				
Semi-cylinder		Lock inserts		
Lock and push-button inserts	DIN 18 252	Type A	Type F	Lock and push-button inserts
675	675	680	680	675

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

New



TS IT network/ server enclosures

see page 100

Doors/locks

Allocation of lock systems

Console systems and industrial workstation, sheet steel

		Enclosure series						
		TopConsole TP		One-piece console TP		Universal console TP	IW	IW enclosure for tower PC
Application	from page	Desk section and console	Pedestal	Console cover	Console door			
		149	149	153	153	154	159	158

Handle systems for enclosures

Comfort handle								
For lock inserts	674	-	-	-	-	-	■	-
For padlock and lock inserts	674	-	-	-	-	-	■	-
For semi-cylinder	674	-	-	-	-	-	■	-
With security lock insert E1	674	-	-	-	-	-	■	-
Prepared for ASSA lock system	674	-	-	-	-	-	■	-
With code	674	-	-	-	-	-	■	-
Ergoform-S handle								
Standard	678	-	■	-	■	■	-	-
Special with security lock insert E1	678	-	■	-	■	■	-	-
Special, prepared for ASSA lock system	678	-	■	-	■	■	-	-
T handles								
Type B	679	■	-	■	-	-	-	-

Lock inserts for enclosures

Lock inserts								
Type A	680	■	■	■	■	■	-	-
Type D	680	-	-	-	-	-	-	■
Type F	680	-	-	-	-	-	■	-
Lock cylinder inserts								
Type B	681	-	-	-	-	-	■	-

Lock inserts for handle systems				
Semi-cylinder		Lock inserts		
Lock and push-button inserts	DIN 18 252	Type A	Type F	Lock and push-button inserts
675	675	680	680	675

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



Command panels with handle strips

see page 170

New

Enclosures and cases, stainless steel

Application	Page	Enclosure series				
		AE		One-piece console		TS, SE
		With cam	With 3-point lock	Console cover	Console door	
		219/220	221	226	226	222/224
Handle systems for enclosures						
Comfort handle						
For lock inserts	674	-	-	-	-	■
For padlock and lock inserts	674	-	-	-	-	■
For semi-cylinder	674	-	-	-	-	■
With security lock insert E1	674	-	-	-	-	■
Prepared for ASSA lock system	674	-	-	-	-	■
Ergoform-S handle						
Standard	678	-	■	-	■	-
Special with security lock insert E1	678	-	■	-	■	-
Special, prepared for ASSA lock system	678	-	■	-	■	-
Plastic handles						
Type C	679	■ ¹⁾	-	■	-	-
T handles						
Type C	679	■ ¹⁾	-	■	-	-
Semi-cylinder lock						
for AE	681	■ ²⁾	-	-	-	-
Lock inserts for enclosures						
Lock inserts						
Type A	680	-	■	-	-	-
Type C	680	■	-	■	-	-
Type F	680	-	-	-	-	■
Lock cylinder inserts						
Type C	681	■	-	■	-	-

¹⁾ Not for 1018.600

²⁾ Not for enclosures made from stainless steel 1.4401 (AISI 316L) and use of cam lock 2304.000

Lock inserts for handle systems				
Semi-cylinder		Lock inserts		
Lock and push-button inserts	DIN 18 252	Type A	Type F	Lock and push-button inserts
675	675	680	680	675

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



Doors/locks

Lock system



Comfort handle

for TS, TS IT, SE, PC, IW

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

Material:

- Die-cast zinc

Surface finish:

- Powder-coated



Also required:

- Handle adaptor 8611.300, see page 659, for mounting on TS glazed door TS, PC bottom door, IW designer door

	For lock inserts	For padlock and lock inserts	With security lock insert 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 chrome	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	–	–	–
Lock and push-button 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⁾	–
Semi-cylinder					
to DIN 18 252 ⁵⁾	–	–	–	9785.040	–
	–	–	–	9785.042 ⁶⁾	–

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

²⁾ With two keys

³⁾ Lock no. 12321; no other lock is possible

⁴⁾ Lock no. 2123; no other lock is possible

⁵⁾ With 3 keys for each lock insert

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



Comfort handle

with code, for TS, TS IT, SE

Flexible access opportunities with

- individual 3-digit code without key or
- with master key function by additionally using a semi-cylinder of 40 or 45 mm to DIN 18 252, independently of the code.

Colour	Model No.
RAL 7035	7200.800
RAL 9005	7200.801



Also required:

- Handle adaptor 8611.300, see page 659, for mounting on TS glazed door TS, vented aluminium sheet steel door, PC bottom door, IW designer door






Accessories:

- Lock and push-button inserts, see page 675
- Semi-cylinder, see page 675

Lock inserts

for installation in comfort handle,
mini-comfort handle, Ergoform-S standard,
folding lever handle

Installation in the			
	Lock and push-button inserts	Comfort handle ⁶⁾ , mini-comfort handle ⁶⁾	Semi-cylinder
	Comfort handle ⁷⁾ , mini-comfort handle ⁷⁾ , Ergoform-S standard, folding lever handle for CM	Comfort handle, mini-comfort handle, 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⁾	–
to DIN 18 252 ⁴⁾	–	–	9785.040
	–	–	9785.042⁵⁾

¹⁾ With two keys

²⁾ Lock no. 12321; no other lock is possible

³⁾ Lock no. 2123; no other lock is possible

⁴⁾ With 3 keys for each lock insert

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

⁶⁾ For lock inserts

⁷⁾ For semi-cylinders



Folding lever handle

for CM




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

Size:

- Length: 242 mm (with inserted trim panel)
- Width: 50 mm
- Depth: 17.5 mm

Colour:

- Enclosure: Similar to RAL 9005
- Handle: Similar to RAL 9006

			
	for lock inserts	for padlock and lock inserts	with security lock insert 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	–
Lock and push-button 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⁾	–
Semi-cylinder			
to DIN 18 252 ⁴⁾	9785.040	9785.040	–
	9785.042 ⁵⁾	9785.042 ⁵⁾	–

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

²⁾ With two keys

³⁾ Lock no. 2123; no other lock is possible

⁴⁾ With 3 keys for each lock insert

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



Doors/locks

Lock system



Adjacent door latch for TS

For optimum operation of the adjacent door from the outside if the handle on the inside is difficult to access due to swing frames or 482.6 mm (19") installed equipment. Retrospective conversion of the adjacent door is easily achieved using the supplied drilling template. The handle on the inside is no longer required.

Colour:

- RAL 7035

Supply includes:

- Assembly parts

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 680



Locking bar latch to CNOMO¹⁾

To fit all locking bars in TS doors and glazed doors with standard lock or comfort handle

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

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

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

! Also required:

- for CNOMO¹⁾ lock inserts, type F, 6.5 mm triangular insert 8611.220, see page 680



Spring washer

Upon dismantling the TS locking rods, the spring washers cannot be reused.

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



Prepared for the installation of lock inserts or 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

Colour:

– RAL 7035

				
	for lock inserts		for semi-cylinder	
	Model No.			
For enclosure 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	–	–
Lock and push-button 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⁾
Semi-cylinder				
to DIN 18 252 ⁴⁾	–	–	9785.040	9785.040
	–	–	9785.042 ⁵⁾	9785.042 ⁵⁾

¹⁾ With two keys

²⁾ Lock no. 12321; no other lock is possible

³⁾ Lock no. 2123; no other lock is possible

⁴⁾ With 3 keys for each lock insert

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

Mini-comfort handle

for AE with cam, including VW E1 lock

For retro-fitting to AE enclosures with cam locks.

Installation options:

- Vertical handle mounting from an enclosure height of 380 mm
- Horizontal handle mounting from an enclosure width of 300 mm
- From an enclosure height of 500 mm, the mini comfort handle may only be fitted horizontally on the lower lock point
- From an enclosure height of 600 mm, the mini-comfort handle may be fitted to the lower locking point, rotated through 180° in the vertical

For enclosure width mm	For enclosure height mm	Packs of	Model No.
≥ 300	≥ 380	1 pc(s).	2537.045

Material:

– Die-cast zinc

Surface finish:

– Powder-coated

Colour:

– RAL 7035

Note:

- Only for use with VW, Audi, SEAT, SkodaAuto
- Supplied without key



Doors/locks

Lock system



Ergoform-S lock system

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

Material:

- Die-cast zinc

Surface finish:

- Powder-coated

				
	Standard	Standard for KS plastic enclosures	Special with security lock insert E1 ¹⁾	Specially prepared for ASSA lock system
	Model No.			
RAL 7035 with brown handle	–	–	2456.500	–
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	–	–
Lock and push-button 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⁾	–	–
Semi-cylinder				
to DIN 18 252 ⁴⁾	9785.040	9785.040	–	–
	9785.042 ⁵⁾	9785.042 ⁵⁾	–	–

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

²⁾ With two keys

³⁾ Lock no. 2123; no other lock is possible

⁴⁾ With 3 keys for each lock insert

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



Ergoform-S handle

with code

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

Colour	Version	Packs of	Model No.
RAL 7035	Ergoform-S handle	1 pc(s).	7200.810

+ Accessories:







- Semi-cylinder, see page 675
- Lock inserts, see page 675

Plastic handles

With or without lock cylinder insert.

Supply includes:

- Assembly parts and seal

Type	B		C		E	
						
	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
	Model No.					
RAL 9011	2576.000	2533.000	2485.000	2485.100	-	-
RAL 8019	-	-	-	-	1484.000	1484.001

¹⁾ With two keys







T handles

With or without lock cylinder insert.

Supply includes:

- Seal

Type	B		C	
				
	With lock cylinder insert ¹⁾	Without lock cylinder insert	With lock cylinder insert ¹⁾	Without lock cylinder insert
	Model No.			
	2575.000²⁾	2572.000	2535.000²⁾	2536.000

¹⁾ With 2 keys

²⁾ Lock no. 3524 E




Doors/locks

Lock system



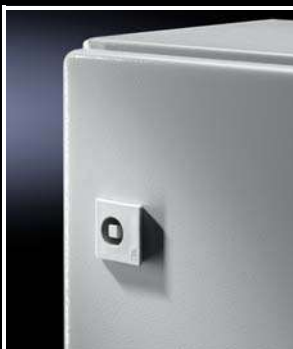
Cam locks

						
	With double-bit insert	With lock cylinder insert ³⁾	With double-bit insert	With lock cylinder insert ³⁾	With security lock insert E1 ¹⁾ RAL 7035	With double-bit insert
Material: Enclosure	Die-cast zinc, nickel-plated		Fibreglass-reinforced polyamide			Made entirely from 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 two 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 two keys



Semi-cylinder lock

for AE compact enclosures

For retro-fitting to all single-door enclosures with cam lock. The cover plate is locked by semi-cylinders with a total length of 40/45 mm (to DIN 18 252). An additional cover protects the cylinder against dirt. The protection category of the enclosure is not impaired. Supplied without semi-cylinder.

Material:

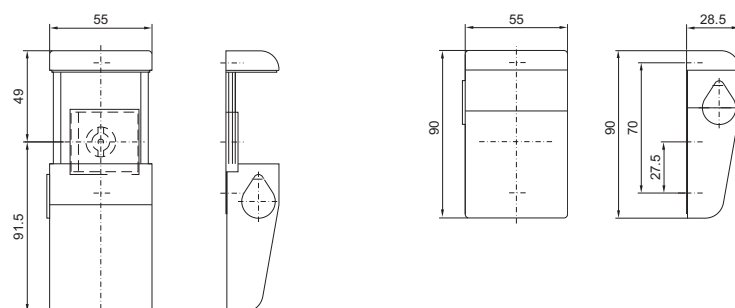
– Die-cast zinc

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



Accessories:

– Semi-cylinder, see page 675



Lock cover

for padlocks or multiple locks

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

Material:

– Die-cast zinc

Surface finish:

– Nickel-plated

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



Doors/locks

Lock system



Multiple lock

for 6 padlocks

The ideal solution in cases where individual access for several persons is required for maintenance and repair purposes.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

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



Lock cover

Prepared for lead seal

For use in all enclosure types with Rittal-specific locks, such as AE and EB.

Material:

- Polyamide

Colour:

- RAL 7035

Packs of	Model No.
2 pc(s).	2476.000



Safety lock

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

Function:

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

Supply includes:

- Lock
- Actuator
- Angle bracket
- Assembly parts

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







Also required:

- For twin-door enclosures (for the overlapping door, to indicate "enclosure door closed"): Door-operated switch 4127.010, see page 755

Enclosure key

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

				
	Model No.			
	-	-	2549.000	2549.500²⁾³⁾
Double-bit key no. 5	2531.000	-	■	■
Safety 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 adaptor and reversible bit for: Multi-tooth size 25 and Phillips-head (Ph 2)

³⁾ Bit 2549.510 for HD lock insert, see page 211



Doors/locks

Hinges



130°/180° hinges

Supply includes:

- Assembly parts

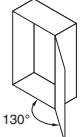
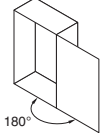
Note:

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



Also required:

- ¹⁾ Lock components for frame 8800.040, see page 660

Enclosure type	Door variant	Material	Colour	Packs of	Model No.	
					 130°	 180°
TS 8, SE	Sheet steel door	Die-cast zinc	-	4 pc(s).	8800.020¹⁾	-
TS 8, SE	Sheet 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 installations up to 900 N	Precision casting/die-cast zinc	RAL 7035	4 pc(s).	-	8800.710
TS 8 bayed enclosure suites with comfort handle/TS IT	Sheet steel door, glazed door vented	Die-cast zinc	RAL 7035	4 pc(s).	-	7824.520²⁾
	Glazed aluminium door, glazed aluminium door vented	Die-cast zinc	RAL 7035			7824.525²⁾³⁾
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⁾ not for vertically divided doors
³⁾ max. 140°



Hinge pin remover

For safe and easy removal of hinge pins.

For enclosure	Model No.
AE/CM	2432.000



Cover hinge

for KL

The cover hinge is simply screw-fastened to the enclosure protection channel and to the edge fold.

Supply includes:

- Assembly parts

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 is easily fitted without drilling, and allows the covers to be opened, even when the terminal box below is bayed.

Packs of	Model No.
6 pc(s).	1591.000

Support strips

For attachment of

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

4.5 mm diameter hole on a 25 mm DIN pitch pattern

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts



Accessories:

- Screws and self-tapping screws M5, see page 737

For TS, SE, CM, TP

For door width mm	Length mm	Packs of	Model No.
400	290	20 pc(s).	4594.000
500	390	20 pc(s).	4309.000
600	490	20 pc(s).	4596.000
800	690	20 pc(s).	4598.000
900	790	20 pc(s).	4579.000
1000	890	20 pc(s).	4599.000

For AE

For enclosures AE	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 support strips to length at the knockout

²⁾ Only in conjunction with perforated mounting strip (see page 686)



Spacers

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

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

Material:

- Hexagonal steel (SW8)

Surface finish:

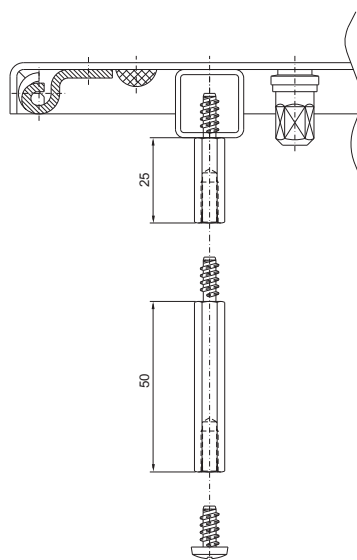
- Zinc-plated



Accessories:

- Screws 5.5 x 13 mm, see page 737

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



Doors/locks

Door, internal



Perforated mounting strip

for AE stainless steel

For vertical mounting on the threaded bolts of the door, for attaching

- Support strips for AE, see page 685
- Door stay 2519.000, see page 688

3.7 mm dia. hole on a 25 mm DIN pitch pattern

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Packs of 20 (nuts and serrated washers included)

To fit AE	Length mm	Model No.
1012.600, 1014.600	698	2310.076
1016.600, 1018.600	938	2310.100
1017.600, 1019.500, 1019.600	1138	2310.120



Accessories:

- Screws, see page 737



Utility lectern

For programming units etc., prepared for mounting on the tubular door frame of TS, SE, CM, PC or on any sufficiently large surface. When required for servicing, it folds down quickly with a maximum support area, and after use is stowed between the tubular door frames in a space-saving design.

Load capacity:

- max. 30 kg.

Material:

- Sheet steel

Colour:

- RAL 7035

Support area		For door width mm	Model No.
Width mm	Depth mm		
413	400	600	4638.600
613	400	800	4638.800



Wiring plan lectern

Holds wiring plans during fault finding and maintenance work. The wiring plan lecterns can be bayed according to the door width. For mounting on the tubular door frame.

Material:

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

Colour:

- Similar to RAL 7035

Supply includes:

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

For enclosures	Packs of	Model No.
TS, SE, CM, TP, PC	1 pc(s).	4120.000

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



CD/DVD box

For fixing to all flat, clean surfaces with double-sided adhesive tape.

Capacity:

- Max. 10 CDs/DVDs

Material:

- Polyamide

Colour:

- RAL 7033

Packs of	Model No.
1 pc(s).	2446.000

Plastic wiring plan pockets

for AE

For installation options, refer to table

- B = Screw-fastened to the perforated door strip on both sides
- E = Screw-fastened on one side, other side stuck with adhesive tape or stuck entirely with adhesive tape

Supply includes:

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

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 mm	340	415	615
Usable depth mm	18	18	18
Height of acrylic glazed pane mm	167	167	167

Installation options

For Model No. AE	Width mm			
1050.500	500	B	-	-
1054.500	600	E	E	-
1055.500	800	E	E	E
1057.500	500	B	-	-
1058.500	600	E	E	-
1060.500	600	E	E	-
1073.500	760	E	E	-
1076.500	600	E	E	-
1077.500	760	E	E	-
1090.500	600	E	E	-
1100.500	1000	B	-	-
1110.500	1000	B	-	-
1114.500	1000	B ¹⁾	-	-
1130.500	1000	B	-	-
1180.500	800	E	E	E
1213.500	1000	B ¹⁾	-	-
1260.500	600	E	B	-
1280.500	800	E	E	B
1350.500	500	B	-	-
1360.500	600	E	E	-
1376.500	600	E	E	-

¹⁾ Prepared for mounting on the l/h door; for mounting on the r/h door, the acrylic glazed pane can be shortened



Plastic wiring plan pockets

For affixing to the inside surfaces of doors.

Material:

- Polystyrene with self-adhesive fastening strips

Colour:

- Similar to RAL 7035

For format	Clearance opening mm			Model No.
	W	H	D	
A3 landscape	438	286	45	2513.000
A4 portrait	228	254	17	2514.000
A5 landscape	228	174	17	2515.000



Wiring plan pockets with transparent pouch

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

For format	Model No.
A4	2510.000
A3	2512.000



Doors/locks

Door, internal



Wiring plan pockets of sheet steel

for TS, SE, CM, TP pedestal, PC

For fastening to tubular door frames at any height.

Colour:

– RAL 7035

Supply includes:

– Assembly screws

D = 90 mm

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

D = 35 mm

To fit door width mm	Clearance opening mm		Model No.
	W	H	
500	355	210	4115.500
600	455	210	4116.500
800	655	210	4118.500

Door stay

To secure the door in the open position.

Supply includes:

– Assembly parts

For	Mounting	Packs of	Model No.
TS, SE, TP universal console, 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 enclosures ¹⁾	top	5 pc(s).	2519.000

¹⁾ With AE stainless steel, only in conjunction with perforated mounting strips, see page 686

Door stay for escape routes

for TS, SE, PC

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

Supply includes:

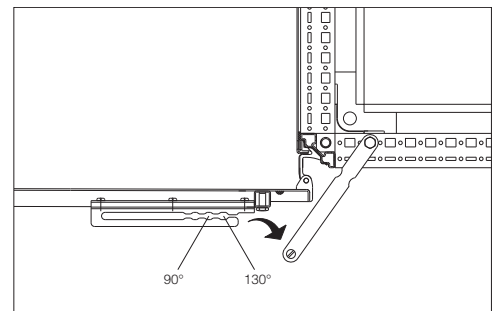
– Assembly parts

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

+ Accessories:

– 180° hinge, see page 684

180° hinge



Ride-up roller

for TS, SE, PC

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

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



Transport and mounting handle

for doors TS, SE

For safe installation and removal of the door and during relocation in the workshop. The matching hinge pin removal tool for 130° hinges is pre-integrated, and supplied loose for 180° hinges.

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



Document clip, magnetic

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

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



Material:

- Plastic: Transparent
- Handle pieces: Black

Alternate frame, magnetic

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

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



Roof/wall mounting

Roof

Rain canopies

for AE, CM

Reliable protection for outdoor siting – with water run-off to the rear. Easily retro-fitted.

Supply includes:

- Assembly parts



Accessories:

- Condensate discharge, see page 642
- Pressure relief stopper, see page 642
- Wall mounting brackets 2503.010 and 2508.010, see page 698

Note:

- For outdoor siting, we generally recommend a rain canopy above the enclosure or the gap between the door and the enclosure, 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 compared with an enclosure sited outdoors or under similar conditions
- Depending on the ambient conditions, additional measures may be required (see “Technical Information”)



for AE, sheet steel version

Material:

- Sheet steel

Surface finish:

- Powder-coated, textured paint

Colour:

- RAL 7035

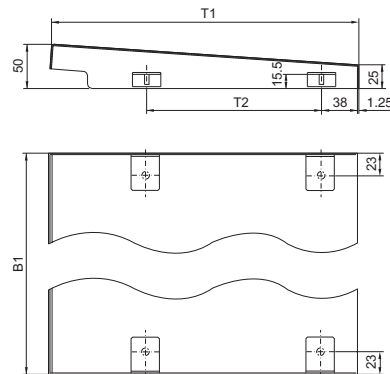
for AE, stainless steel version

Material:

- Stainless steel 1.4301 (AISI 304)

Surface finish:

- Brushed, grain size 240



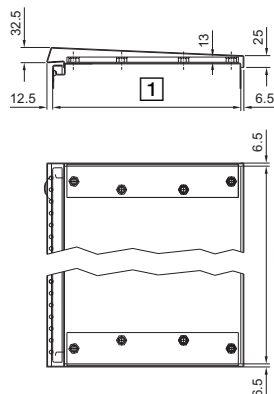
B1 = Enclosure width + 11 mm
 T1 = Enclosure depth + 25 mm
 T2 = Enclosure depth – 90 mm, from enclosure width 600 mm: Enclosure depth – 115 mm

For		Model No.
Enclosure width mm	Enclosure depth mm	
380	210	2501.500
600	210	2502.500
600	350	2511.500

For		Model No.
Enclosure width mm	Enclosure depth mm	
200	155	2470.000
300	210	2361.000
380	155	2471.000
380	210	2472.000
500	210	2362.000
600	210	2473.000
760	300	2474.000
800	300	2475.000
1000	300	2363.000



for CM, sheet steel version



1 Enclosure depth

2 Enclosure width

Width mm	Depth mm	Model No.
600	400	5001.310
800	400	5001.330
1000	400	5001.350
1200	400	5001.360

Material:

- Sheet steel

Surface finish:

- Powder-coated, textured paint

Colour:

- RAL 7035

Roof/wall mounting

Roof

Dust guard trim

for AE, CM, EB, KL and BG

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

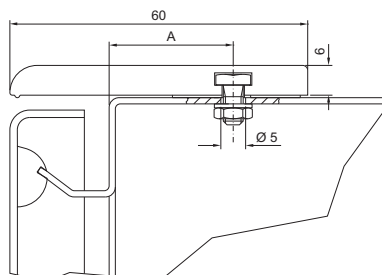
Material:

- Plastic, UV-resistant

Colour:

- Similar to RAL 7024

For enclosure	Length mm	A mm	Model No.
AE	1200	25	2426.500
CM		20	
KL, EB, BG		20.5	



Dust guard trim

for TS, SE

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

Colour:

- RAL 7035

Supply includes:

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

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

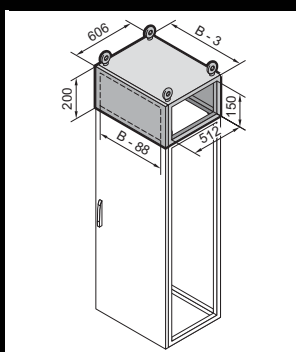
Note:

- Also suitable for use in conjunction with top baying cover, see page 658



Roof/wall mounting

Roof



Top mounting module

for TS

As a cable chamber for cable infeed from above or for power distribution with busbar systems across bayed enclosures. The TS cover plate supplied as standard is used to finish off at the top. The enclosure height is increased by 200 mm with the top module fitted. The top baying cover cannot be fitted. Installation accessories for top and bottom, see diagram and explanations below.

Material:

– Sheet steel, 1.5 mm

Surface finish:

– Spray-finished, textured paint

Colour:

– RAL 7035

Protection category IP to IEC 60 529:

– IP 55

NEMA protection category:

– NEMA 12

For enclosures		Model No.
Width (B) mm	Depth mm	
600	600	8801.735
800	600	8801.745
1000	600	8801.755
1200	600	8801.765

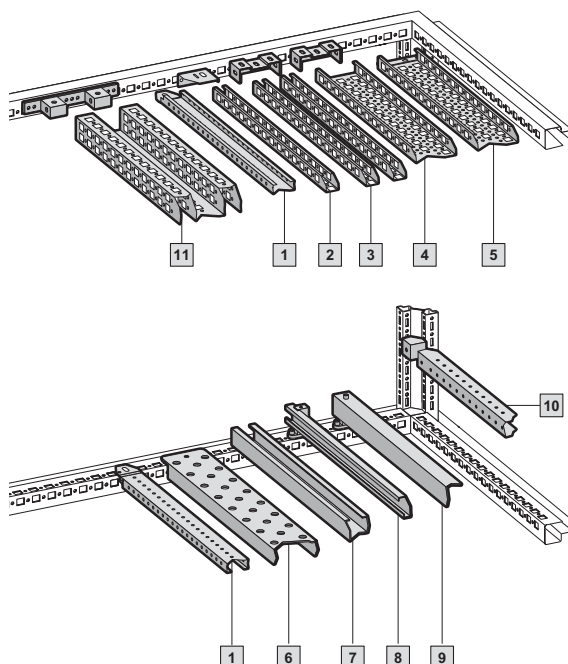
Supply includes:

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



Also required:

- Side panel for top-mounting module 8801.775, see page 692



Accessories:

Description	Page
1 TS punched rail 18 x 38 mm	720
2 PS punched rail 23 x 23 mm with angle bracket	721
3 PS punched rail 23 x 23 mm with PS support bracket	721
4 PS punched section without mounting flange 23 x 73 mm with PS support bracket	723
5 PS punched section with mounting flange 23 x 73 mm	722
6 Support rail	724
7 System support rails	724
8 C rail 30/15 with support bracket or spacer	723
9 Cable clamp rail	783
10 TS punched rail 25 x 38 mm	719
11 TS punched section without mounting flange 45 x 88 mm	719



Side panel

for top-mounting module

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

Material:

– Sheet steel, 1.5 mm

Surface finish:

– Spray-finished, textured paint

Colour:

– RAL 7035

Supply includes:

– Assembly parts

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

Roof/wall mounting

Roof

Roof plates

for TS

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

Material:

- Sheet steel, 1.5 mm

Surface finish:

- Textured paint

Colour:

- RAL 7035

IP 55, solid

For enclosures		Packs of	Model No.
Width mm	Depth mm		
400	600	1 pc(s).	9671.646
600	600	1 pc(s).	9671.666
800	600	1 pc(s).	9671.686
400	800	1 pc(s).	9671.648
600	800	1 pc(s).	9671.668
800	800	1 pc(s).	9671.688

IP 4X

In order to achieve a protection category of IP 41, a roof plate IP 55 should be fitted above the existing roof plate using four spacers 7967.000.

For enclosures		Packs of	Model No.
Width mm	Depth mm		
400	600	1 pc(s).	9671.364
600	600	1 pc(s).	9671.366
800	600	1 pc(s).	9671.368
400	800	1 pc(s).	9671.384
600	800	1 pc(s).	9671.386
800	800	1 pc(s).	9671.388

IP 2X with ventilation hole, build height: 72 mm

Supply includes: Assembly parts

For enclosures		Packs of	Model No.
Width mm	Depth mm		
400	600	1 pc(s).	9671.846
600	600	1 pc(s).	9660.235
800	600	1 pc(s).	9660.245
1000	600	1 pc(s).	9660.255
1200	600	1 pc(s).	9660.265
400	800	1 pc(s).	9671.848
600	800	1 pc(s).	9659.525
800	800	1 pc(s).	9659.535
1000	800	1 pc(s).	9659.545
1200	800	1 pc(s).	9659.555

For cable entry glands

For enclosures		Required number of glands	Packs of	Model No.
Width mm	Depth mm			
600	400	2 pc(s).	1 pc(s).	9665.943
850	400	3 pc(s).	1 pc(s).	9665.953
1100	400	4 pc(s).	1 pc(s).	9665.963
400	600	3 pc(s).	1 pc(s).	9671.546
600	600	4 pc(s).	1 pc(s).	9665.903
800	600	8 pc(s).	1 pc(s).	9671.586
850	600	6 pc(s).	1 pc(s).	9665.913
1100	600	8 pc(s).	1 pc(s).	9665.923
400	800	4 pc(s).	1 pc(s).	9671.548
600	800	8 pc(s).	1 pc(s).	9671.568
800	800	8 pc(s).	1 pc(s).	9671.588

Also required:

Cable entry gland, see page 694.



Pressure stoppers

for roof plates

For converting the IP 55 roof plate for TS enclosures into a roof plate with pressure relief function. The pressure relief function is essential for compliance with health and safety regulations for arc-proofing to IEC/TR 61641.

Material:

- Polyamide (PA 6.6)

Supply includes:

- 2 warning stickers

Packs of	Model No.
4 pc(s).	9674.790

Note:

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



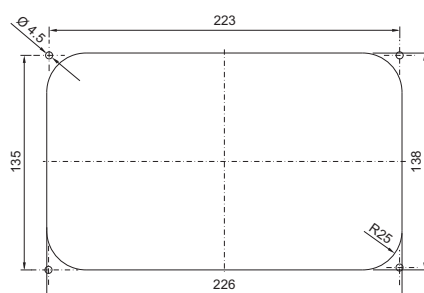
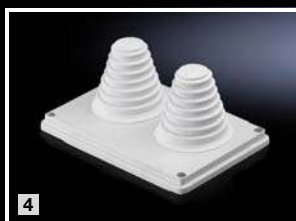
Roof/wall mounting

Roof

Cable entry glands

- Including seal
- External dimensions 250 x 160 mm
- Protection category IP 55

Version	Material	Colour	Packs of	Model No.
1 14 x M25/32	Insulating material	RAL 7035	1 pc(s).	9665.750
2 2 x M25/32/40, 1 x M32/40/50, 2 x M40/50/63	Insulating material	RAL 7035	1 pc(s).	9665.760
3 With sealing membranes 32 x Ø 7 – 16 mm, 4 x Ø 10 – 20 mm, 3 x Ø 14 – 26 mm	Insulating material	RAL 7035	1 pc(s).	9665.770
4 With entry glands up to Ø 66 mm	Insulating material	RAL 7035	1 pc(s).	9665.780
5 Solid	Sheet steel, spray-finished	RAL 7035	4 pc(s).	9665.785



Cut-out dimensions for 9665.750 to 9665.785



Roof/wall mounting

Roof

Roof plate

for cable entry, two-piece for TS, TS IT

In exchange for the standard roof. Equipped with a sliding angular bracket in the rear section. Rubber cable clamp strip on both sides for attaching cable bundles and bunched cables. Due to the symmetrical design of the TS frame, side cable entry can also be achieved by rotating the roof plate. The two-piece design allows convenient retrofitting.

Material:

– Sheet steel

Colour:

– RAL 7035

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



Roof plate, vented

for TS, TS IT

In exchange for the standard roof. 72 mm high roof plate, all-round vent slots, and clamp strip for cable entry. The two-piece design with cable entry allows convenient retrofitting.

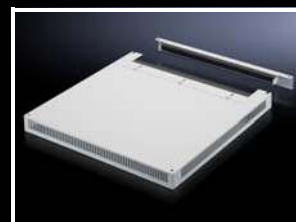
Material:

– Sheet steel

Colour:

– RAL 7035

For enclosures		Packs of	Model No.
Width mm	Depth mm		
600	600	1 pc(s).	7826.669
600	800	1 pc(s).	7826.689
800	600	1 pc(s).	7826.869
800	800	1 pc(s).	7826.889
800	1000	1 pc(s).	7826.809



Brush kit for cable entry in the roof

for TE

To activate cable entry in the roof plate.

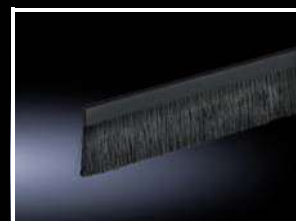
Benefits:

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

Material:

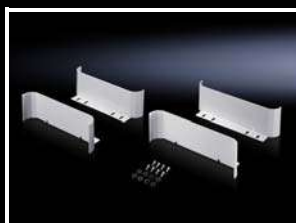
– Plastic support with brushes

For enclosure width mm	Packs of	Model No.
600	2 pc(s).	7888.610
800	2 pc(s).	7888.612



Roof/wall mounting

Roof



Cable organiser

for TE open

Cable routing plate for targeted routing of cables.

Applications:

- Optionally on the roof plate of the TE open

Material:

- Sheet steel, spray-finished

Colour:

- RAL 7035

Packs of	Model No.
4 pc(s).	7888.950



Roof mounting screw

For screw-fastening the roof plate instead of eye-bolts. With contact washers for potential equalisation.

Thread: M12

Material:

- Steel

Surface finish:

- Zinc-plated

Supply includes:

- 20 panhead screws M 12 x 20
- 20 serrated sealing washers A 12.5

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



Spacers

for roof plate TS

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

Not suitable for crane transportation!

Thread: M12

Material:

- Hexagonal sectional steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

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

Roof/wall mounting

Roof

Eyebolts

for TS, SE

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

Thread: M12

Supply includes:

- 4 eyebolts M12
- 4 serrated lock washers A 12.5

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



Eyebolts

for CM

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

Mounting via the two holes in the top of the CM.

Thread: M12

Supply includes:

- Eyebolts
- Reinforcement plates

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



Eyebolts

for AE

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

Thread: M12

Supply includes:

- Eyebolts
- Reinforcement plates

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



Roof/wall mounting

Wall mounting



Wall mounting bracket

For the attachment of KL, EB, BG and IT enclosures based on EL.

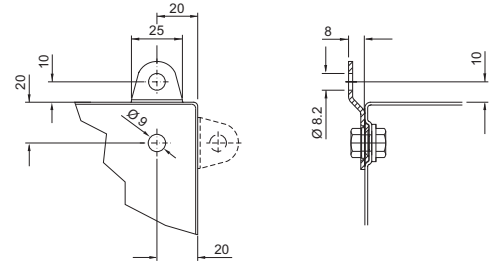
Supply includes:

- Assembly parts for mounting on the enclosure

Note:

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

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



Wall mounting bracket for AE

For attaching to the enclosure from the outside. Simply insert the expandable dowel into the housing hole from the outside, and screw-fasten the wall bracket from the outside.

Material:

- Sheet steel

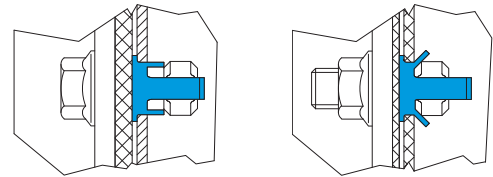
Surface finish:

- Zinc-plated

Supply includes:

- Wall bracket pre-fitted with seal and expandable dowel

Wall distance mm	Packs of	Model No.
15	4 pc(s).	2508.100



Wall mounting bracket

For mounting KL, EB, BG, AE, CM, IT enclosures based on EL and AE, TP consoles and small fibre-optic distributors.

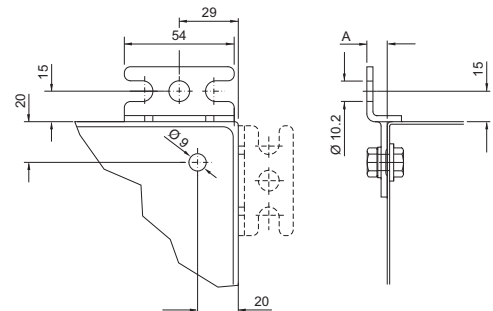
Supply includes:

- Assembly parts for mounting on the enclosure

Note:

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

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



Possible alternative:

- Wall spacer bracket Hygienic Design, see page 210

Roof/wall mounting

Wall mounting

Wall mounting bracket

for KS

For attachment to the wall, only possible from the outside of the enclosure.

Material:

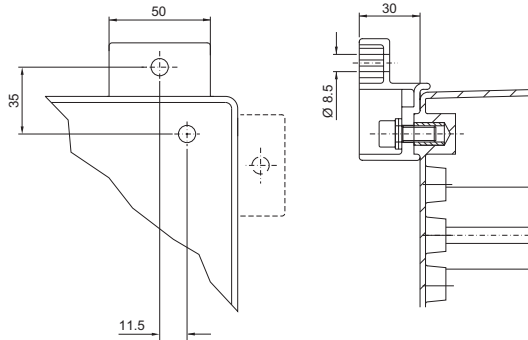
- Fibreglass-reinforced polyamide¹⁾

Supply includes:

- Assembly parts for mounting on the enclosure

Colour	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



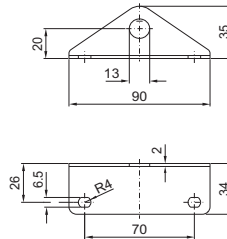
Wall angle

For compact enclosures (additional holes required in the enclosure).

Supply includes:

- Assembly parts for mounting on the enclosure

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



Wall bracket

For roof-side wall mounting of TS and SE with a low depth and e.g. heavy components on the door or built-in swing frame.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

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

Possible alternative:

- With TS 8 inside the enclosure (without mounting plate), baying bracket 8800.470, see page 656



Roof/wall mounting

Wall mounting



Pole clamp

for KL, EB, BG, 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:

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

Surface finish:

- Mounting angle, clamping section: Zinc-plated

Supply includes:

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

Packs of	Model No.
2 pc(s).	2584.000



Enclosure connectors

Adjustable

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

Rotation range:

- ±105° adjustable in 7.5° stepped increments

Material:

- Die-cast zinc

Surface finish:

- Powder-coated

Colour:

- RAL 7035

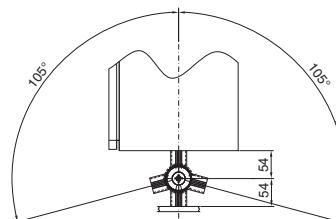
Supply includes:

- Assembly parts for both sides

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

Note:

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



Roof/wall mounting

Wall mounting

Frame connector, adjustable

for Comfort Panel

Between the command panel and keyboard housing and horizontal or vertical surfaces.

Rotation range:

– Adjustable in 8° stepped increments, see drawing

Material:

– Die-cast zinc

Surface finish:

– Powder-coated

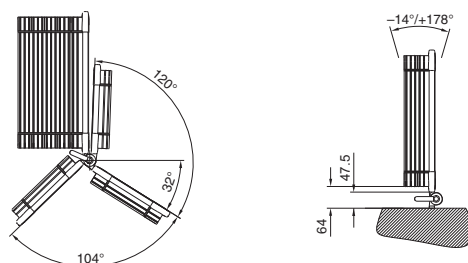
Colour:

– RAL 7024

Supply includes:

– Assembly parts and clamping levers for both sides

Packs of	Model No.
2 pc(s).	6005.500



Wall mounting

Vertically hinged

Between the Compact Panel and horizontal or vertical surfaces.

Rotation range:

– 180° adjustable on a 7.2° pitch pattern

Material:

– Wall mounting bracket: Sheet steel

– Knurled screw: Steel with plastic knurled handle

Supply includes:

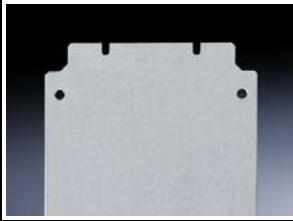
– Knurled screw and assembly parts for mounting on the Compact Panel

Packs of	Model No.
2 pc(s).	6341.000



Interior installation

Mounting plates



Mounting plates

for KL and KL-HD

For component installation outside of the enclosure. Assembly screws included as accessories with the enclosure.

Material:

- Sheet steel, 2 mm

Surface finish:

- Zinc-plated



Accessories:

- Self-tapping screws 2487.000, see page 737



Possible alternative:

- Support rails, see page 725

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



Mounting plate

for TS, 400 mm wide

Depth-adjustable on a 25 mm pitch pattern.

Material:

- Sheet steel, 3 mm

Surface finish:

- Zinc-plated

Supply includes:

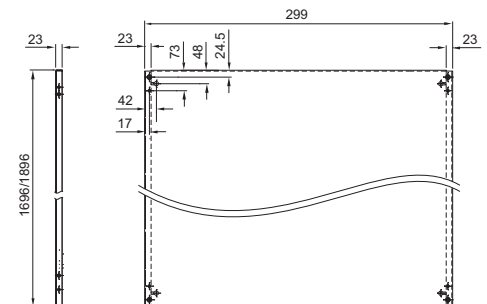
- Assembly parts



Accessories:

- TS 18 x 38 mm punched rail, used as mounting plate slide rail, see page 720
- TS width divider, for installation in wider enclosures, see page 630

For enclosure height mm	Model No.
1800	8614.180
2000	8614.200



Mounting plate infill

for TS

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

Material:

- Sheet steel, 2 mm

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

For enclosure height mm	Model No.
1800	4590.700
2000	4591.700
2200	4592.700

Interior installation

Mounting plates

Mounting plate attachment

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

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

For TS, SE

Installation options:

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

Benefit:

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 702



For TS, SE

Installation options:

- At the side
- At the rear, flush with enclosure frame

Benefit:

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:

- At the side
- At the rear, flush with enclosure frame
- Set forward on a 25 mm pitch pattern

Benefit:

No impairment to the mounting surface, for optional use as attachment or screw-fastening

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

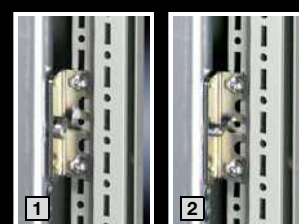


Also required:

- Punched section with mounting flange 17 x 73 mm for the inner mounting level, see page 717 (for fig. 3)



- 1 Mounting plate attached with a screw in the rearmost installation position
- 2 Mounting plate screw-fastened from the rear in the rearmost installation position
- 3 Mounting plate in a set forward position, either attached with a screw or screw-fastened (not shown)



For TS, SE

Installation options:

- At the side
- At the 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



Interior installation

Mounting plates

Mounting plate attachment

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

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts



For TS, SE

Installation options:

- All-round
- Set forward on a 25 mm pitch 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 (with TS for inner level), see page 720 or
- Punched section with mounting flange (with TS for inner level), see page 717 or
- Punched rails and punched sections without mounting flange, see page 719/720



For TS, SE

Installation options:

- On the top and bottom of the mounting plate
- At the rear, flush with enclosure frame

Screw in the clip 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 depth available for installed equipment on both sides.

Material:

- Sheet 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 pc(s).	8800.280



Mounting plates

For Outdoor Basic enclosure

For the configuration of mounting levels. The mounting plates are depth-adjustable on a 25 mm pitch pattern.

Material:

- Aluminium, 3 mm

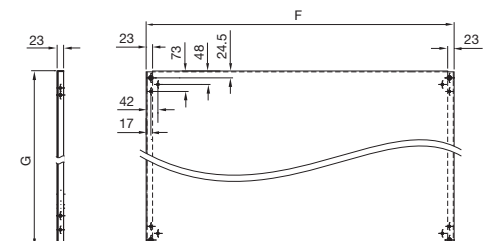
Supply includes:

- Assembly parts

Note:

- For an enclosure width of 1200 mm, partial installation with one or two 600 mm wide mounting plates is possible

For enclosure		F mm	G mm	Model No.
Width mm	Height mm			
600	1200	499	1096	9765.092
800	1200	699	1096	9765.095
1200	1200	1099	1096	9765.191



Interior installation

Mounting plates

Slide rails

for mounting plate TS

Slides in from the side.

- Attachment of the mounting plate to the slide rails using cage nuts and screws.
- Mounting of the slide rails directly on the enclosure frame, depth-adjustable on a 25 mm pitch pattern

Material:

- Sheet steel

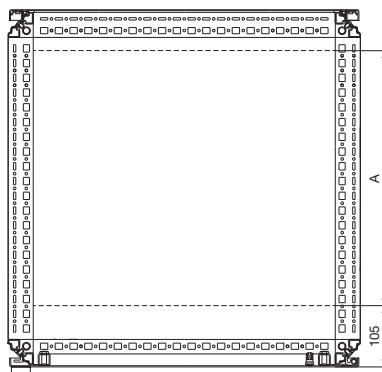
Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

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



For enclosure depth mm	A (depth adjustable on a 25 mm pitch pattern from/to)
400	105 – 330
500	105 – 430
600	105 – 530
800	105 – 730



Mounting plate adjustment bracket

for KS

Infinitely adjustable.

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

Material:

- Sheet steel

Surface finish:

- Zinc-plated

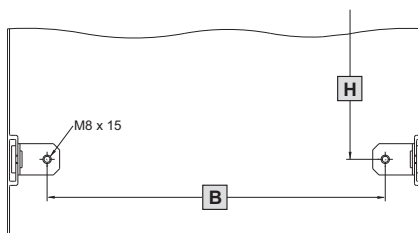
Supply includes:

- Assembly parts

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

- H** Enclosure height:
 - 150 mm

For enclosures KS	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



Interior installation

Mounting plates



Mounting plate attachment

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

For example, if a direct connection between the mounting plate and the enclosure is required for mobile use (cranes etc.). Tested as per DIN EN 60 721 severity 3 M4, with a weight of 150 kg evenly distributed over the mounting plate. Simply screw-fasten to the existing holes in the mounting plate to pre-assemble for:

Wall mounting from the inside

Direct using a bracket and wall/support mounted enclosure.

Wall mounting from the outside

Screws for wall mounting brackets (see page 698) are easily screwed into the plate nuts from the outside

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Packs of	Model No.
1 pc(s).	5001.075

Cross-brace for mounting plates

for TS, SE

Additional horizontal rigidity for vibration resistance and/or stabilisation of wide mounting plates. This brace may also be used as an attachment aid for heavy components.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- 2 sections
- 4 clamping sections
- 4 grub screws M10 x 16 mm

For enclosure width mm	Model No.
1200	4333.120
1600	4333.160
1800	4333.180

Transport handles for mounting plates

for TS, SE

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

Benefits include:

- Can be used for people of different heights
- Optimised force transmission
- Easy handling

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

Interior installation

Mounting plates

Partial mounting plates

for TS, SE

For

- Universal interior installation, also in conjunction with punched sections with mounting flanges and support strips; defective assemblies are easily and quickly replaced
- Additional mounting levels

Partial mounting plates are fastened directly onto the vertical enclosure sections via the inner mounting level using the assembly parts supplied loose. In this mounting position (in both the width and the depth) they form one level with TS punched sections with mounting flanges 17 x 73 mm and TS support strips for the inner mounting level.

Material:

- Sheet steel, 2.5 mm

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts



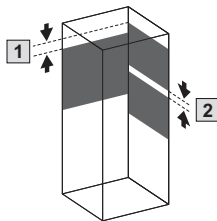
Accessories:

- TS punched section with mounting flange 17 x 73 mm for the outer mounting level, see page 717
- TS support strip, see page 720
- Hinge attachment, see page 708
- Self-tapping screws, 2487.000, see page 737



For installation in										Size mm	Packs of	Model No.
Enclosure width mm					Enclosure depth (side) mm							
400	600	800	1000	1200	400	500	600	800				
■	■				■		■			500 x 300	1 pc(s).	8614.640
	■					■	■			500 x 400	1 pc(s).	8614.650
	■						■			500 x 500	1 pc(s).	8614.660
	■	■					■	■		500 x 700	1 pc(s).	8614.680
	■						■			500 x 775	1 pc(s).	8614.675¹⁾
■		■			■			■		700 x 300	1 pc(s).	8614.840
		■					■	■		700 x 400	1 pc(s).	8614.850
		■						■		700 x 700	1 pc(s).	8614.880
■			■		■					900 x 300	1 pc(s).	8614.040
			■			■				900 x 400	1 pc(s).	8614.050
	■		■				■			900 x 500	1 pc(s).	8614.060
■				■	■					1100 x 300	1 pc(s).	8614.240
				■		■				1100 x 400	1 pc(s).	8614.250
	■			■			■			1100 x 500	1 pc(s).	8614.260

¹⁾ Also suitable for installing in
 - PC enclosures based on SE behind the lower front door
 - IW enclosures, height 900 and 1000 mm

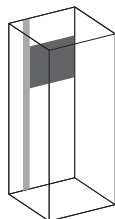


When **installing around corners** due to collision between the assembly components

- 1** At least 75 mm (adjustable on a 25 mm pitch pattern)

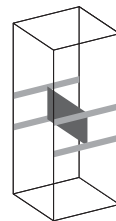
Maximum space utilisation

- 2** 1 mm (adjustable on a 25 mm pitch pattern)



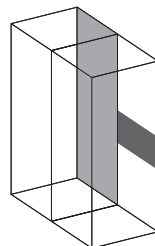
Partial installation

Partial use of the enclosure depth or width is also possible, in this case using a PS punched section without mounting flange 23 x 73 mm, see page 722



Set forward installation position

Quickly and easily achieved with four TS punched sections with mounting flanges 17 x 73 mm for the outer mounting level, see page 717



Continuously flush

In bayed enclosure suites, the partial mounting plate is in the rearmost position flush with the standard mounting plate; this facilitates continuous component mounting

Interior installation

Mounting plates



Hinge attachment for partial mounting plate TS, SE

Material:
– Steel

Surface finish:
– Zinc-plated

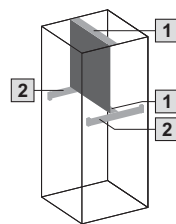
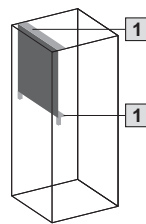
Supply includes:
– Assembly parts

Examples

In the highest or lowest position

Front

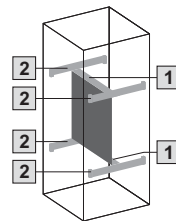
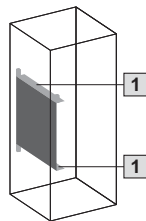
Set back



In a central position

Front

Set back



Packs of	Model No.
1 pc(s).	8614.100

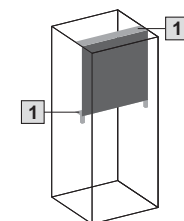
! Also required:

- [1] Installation kit for swing frame, small, for enclosure width 600 mm 2377.860, 800 mm 2377.880, see page 796
- [2] PS punched section without mounting flange 23 x 73 mm according to the enclosure depth, see page 723, support brackets 8800.330, see page 731 depending on the installation position

Side installation:

In conjunction with hinge, for side panel, see page 644, for an enclosure depth of 600 or 800 mm, side installation is identical to installation parallel to the front

Side installation



Partial mounting plates, locatable

for TS, SE, TP

For installation in

- Console and desk unit on the system rails for interior installation
- Pedestal at the side of punched sections with mounting flanges or support strips fitted in the depth
- Other enclosures mounted on rails with 25 mm pitch pattern punchings

For easy mounting on pre-fitted assembly screws. Bayable by screw-fastening at the sides.

Material:
– Sheet steel

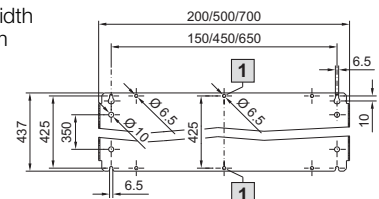
Surface finish:
– Zinc-plated

Supply includes:
– Assembly parts

Width mm	Height mm	Packs of	Model No.
200	437	1 pc(s).	6730.310
500	437	1 pc(s).	6730.330
700	437	1 pc(s).	6730.340

For console/desk unit width mm	Max. partial mounting plates that may be installed
600	1 x 6730.330
800	1 x 6730.340
1200	2 x 6730.310 1 x 6730.340
1600	1 x 6730.330 1 x 6730.340

[1] From width 500 mm

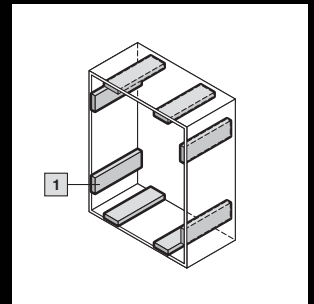
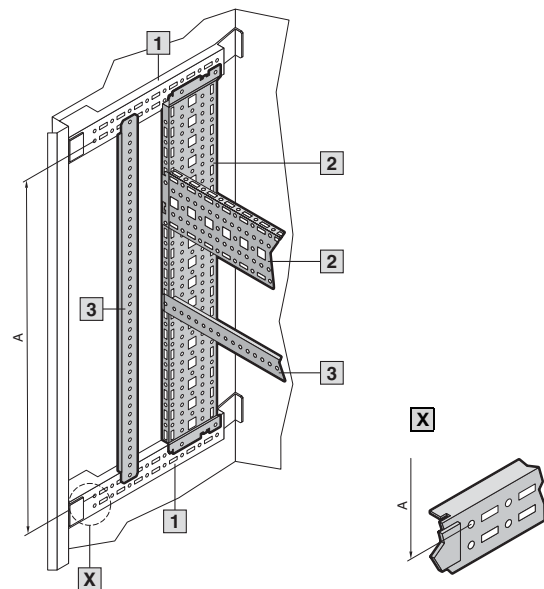


AE installation examples with TS system rails

1 Rails for interior installation (preparing for installation)						
For enclosure depth mm	Packs of	210	250	300	350	Page
Model No.	4 pc(s).	2383.210	2383.250	2383.300	2383.350	716

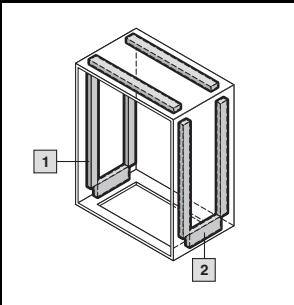
Interior installation in the width and height									
2 TS punched section with mounting flange 17 x 73 mm	AE from enclosure width/height mm	A ¹⁾ mm	Packs of	Model No.					
				380	225	4 pc(s).	8612.130		8612.130
500	325	4 pc(s).	8612.140	8612.140	8612.140	8612.140			
	375	4 pc(s).	8612.040	8612.040	8612.040	8612.040			
600	425	4 pc(s).	8612.150	8612.150	8612.150	8612.150			
	475	4 pc(s).	8612.050	8612.050	8612.050	8612.050			
760	525	4 pc(s).	8612.160	8612.160	8612.160	8612.160			
	575	4 pc(s).	8612.060	8612.060	8612.060	8612.060			
1000	725	4 pc(s).	8612.180	8612.180	8612.180	-			
	775	4 pc(s).	8612.080	8612.080	8612.080	-			
	875	4 pc(s).	8612.090	8612.090	8612.090	-			
1200	925	4 pc(s).	-	-	8612.100	-			
	975	4 pc(s).	-	-	8612.000	-			
1400	1125	4 pc(s).	-	-	8612.120	-			
	1175	4 pc(s).	-	-	8612.020	-			
3 TS support strip	400	325	20 pc(s).	4694.000	4694.000	4694.000	4694.000	720	
	500	425	20 pc(s).	4695.000	4695.000	4695.000	4695.000		
	600	525	20 pc(s).	4696.000	4696.000	4696.000	4696.000		
	800	725	20 pc(s).	4697.000	4697.000	4697.000	4697.000		

¹⁾ A = Rail mounting distance



Interior installation

Rail systems



CM installation examples with TS system rails

1 Rails for interior installation (preparing for installation)

For enclosure width/height mm	Packs of	600	800	1000	1200	1400	Page
Model No.	4 pc(s).	5001.050	5001.051	5001.052	5001.053	5001.054	716

2 Base configuration rail (preparing for installation)

For enclosure depth	Packs of	300	400	-	-	-	
Model No.	2 pc(s).	5001.371	5001.370	-	-	-	719

Installation in the width

For enclosure width mm	Packs of	Model No.					
		600	800	1000	1200	1400	
A ¹⁾ mm		575	775	975	1175	-	
3 TS punched section with mounting flange 17 x 73 mm	4 pc(s).	8612.060	8612.080	8612.000	8612.020	-	717
4 TS support strips	20 pc(s).	8800.130	4579.000	-	-	-	720
5 Support rail	Slotted	4 pc(s).	4396.000	4398.000	-	-	724
	Unslotted	4 pc(s).	4396.500	4398.500	-	-	724
6 System support rails	2 pc(s).	4361.000	4362.000	4347.000	4363.000	-	724
7 C rails 30/15	6 pc(s).	4944.000	4945.000	4946.000	4947.000	-	723
8 Cable clamp rail	2 pc(s).	4191.000	4192.000	4336.000	4196.000	-	783

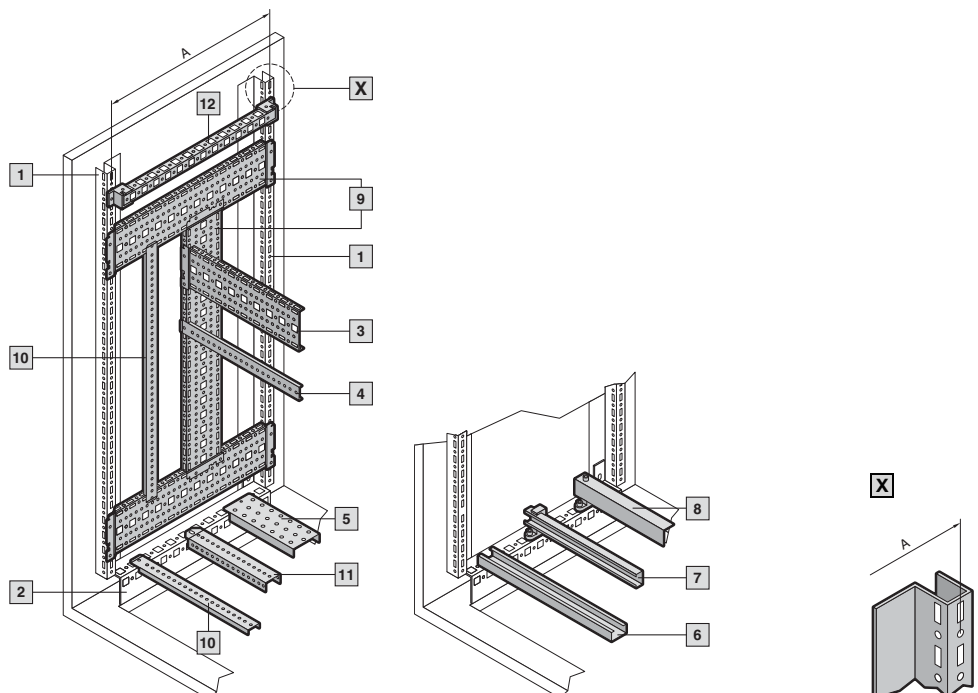
Installation in the height (individual installation e.g. with)

TS punched section with mounting flange 17 x 73 mm	see page 717
TS support strips	see page 720

Installation in the depth

	For enclosure depth mm	A ¹⁾ mm	Packs of	Model No.					
				600	800	1000	1200	1400	
9 TS punched section with mounting flange 17 x 73 mm	300	225	4 pc(s).	8612.130	8612.130	8612.130	8612.130	8612.130	717
	400	325	4 pc(s).	8612.140	8612.140	8612.140	8612.140	8612.140	
10 TS support strips	400	325	20 pc(s).	4694.000	4694.000	4694.000	4694.000	4694.000	720
11 TS punched rail 18 x 38 mm	400	325	4 pc(s).	8612.240	8612.240	8612.240	8612.240	8612.240	720
12 PS punched rail 23 x 23 mm	400	275	12 pc(s).	4169.000	4169.000	4169.000	4169.000	4169.000	721
			With mounting bracket TS (2 per rail)	24 pc(s).	8800.370	8800.370	8800.370	8800.370	8800.370

¹⁾ A = Rail mounting distance



TP pedestal/one-piece console Installation examples with TS system rails

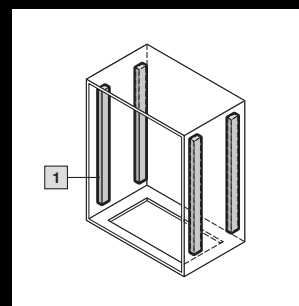
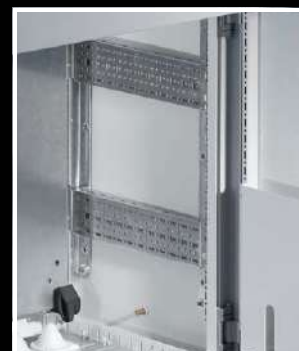
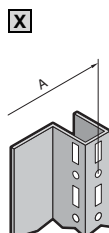
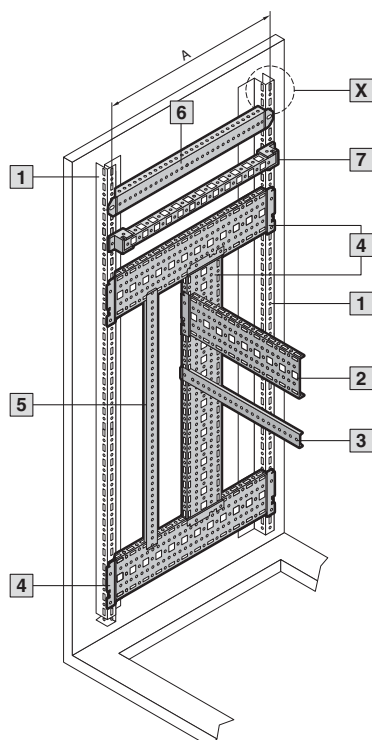
1 Rails for interior installation (preparing for installation)						
For enclosure width mm	Packs of	600	800	1200	1600	Page
For enclosure height mm		675	675	675	675	
Model No.	4 pc(s).	5001.050	5001.050	5001.050	5001.050	716

Installation in the width						
	Packs of	Model No.				
For enclosure width mm		600	800	1200	1600	
A ¹⁾ mm		575	775	1175	1575	
2 TS punched section with mounting flange 17 x 73 mm	4 pc(s).	8612.060	8612.080	8612.020	-	717
3 TS support strips	20 pc(s).	8800.130	4579.000	-	-	720

Installation in the height (individual installation e.g. with)	
TS support strips	see page 720
TS punched rail, 18 x 38 mm	see page 720

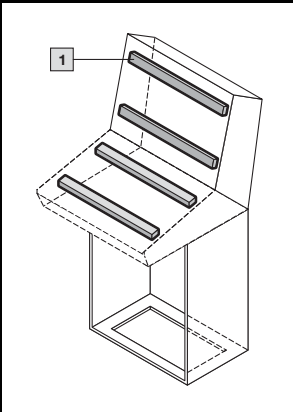
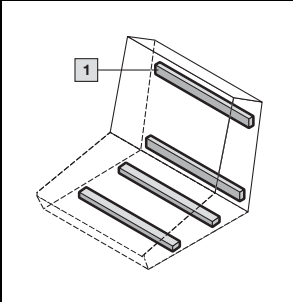
Installation in the depth								
	For enclosure depth mm	A ¹⁾ mm	Packs of	Model No.				
4 TS punched section with mounting flange 17 x 73 mm	400	325	4 pc(s).	8612.140	8612.140	8612.140	8612.140	717
	500	425	4 pc(s).	8612.150	8612.150	8612.150	8612.150	
5 TS support strips	400	325	20 pc(s).	4694.000	4694.000	4694.000	4694.000	720
	500	425	20 pc(s).	4695.000	4695.000	4695.000	4695.000	
6 TS punched rail 18 x 38 mm	400	325	4 pc(s).	8612.240	8612.240	8612.240	8612.240	720
	500	425	4 pc(s).	8612.250	8612.250	8612.250	8612.250	
7 PS punched rail 23 x 23 mm	400	325	12 pc(s).	4169.000	4169.000	4169.000	4169.000	721
	500	425	12 pc(s).	4170.000	4170.000	4170.000	4170.000	
With mounting bracket TS (2 per rail)			24 pc(s).	8800.370	8800.370	8800.370	8800.370	730

¹⁾ A = Rail mounting distance



Interior installation

Rail systems



TP console Installation examples with TS system rails

1 Rails for interior installation (preparing for installation)						
For enclosure width mm	Packs of	600	800	1200	1600	Page
Model No.	4 pc(s).	5001.050	5001.051	5001.053	5001.054	716

Installation in the height						
	A ¹⁾ mm	Packs of	Model No.			
For enclosure width mm			600	800	1200	1600

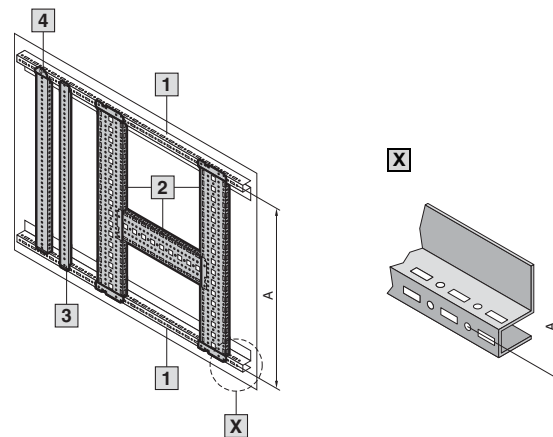
2 TS punched section with mounting flange 17 x 73 mm						
For cover	375	4 pc(s).	8612.040	8612.040	8612.040	717
For enclosure	425	4 pc(s).	8612.150	8612.150	8612.150	717

3 TS support strips						
For cover	375	4 pc(s).	4309.000	4309.000	4309.000	720
For enclosure	425	4 pc(s).	4695.000	4695.000	4695.000	720

4 TS punched rail 18 x 38 mm						
For enclosure	425	4 pc(s).	8612.250	8612.250	8612.250	720

¹⁾ A = Rail mounting distance

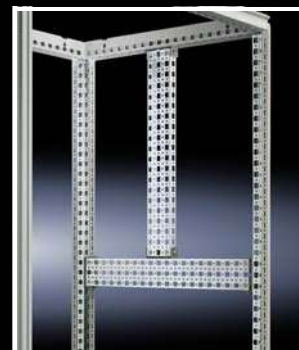
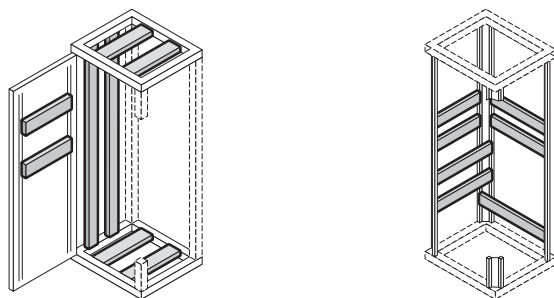
Console/desk unit/console lid






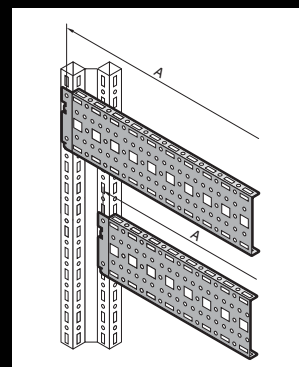
Interior installation

Rail systems

TS/SE installation examples with TS system rails



	Installation in the roof and base frame in the width/depth	Installation between vertical sections in the width/depth	
		Inner level	Outer level
			

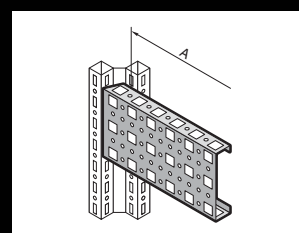


TS punched section with mounting flange, 17 x 73 mm								
For enclosure width/depth mm	Packs of	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	Page
300	4 pc(s).	–	–	275	8612.030	225	8612.130	717
400	4 pc(s).	–	–	375	8612.040	325	8612.140	
500	4 pc(s).	–	–	475	8612.050	425	8612.150	
600	4 pc(s).	–	–	575	8612.060	525	8612.160	
800	4 pc(s).	–	–	775	8612.080	725	8612.180	
1000	4 pc(s).	–	–	975	8612.000	925	8612.100	
1200	4 pc(s).	–	–	1175	8612.020	1125	8612.120	

¹⁾ A = Rail mounting distance

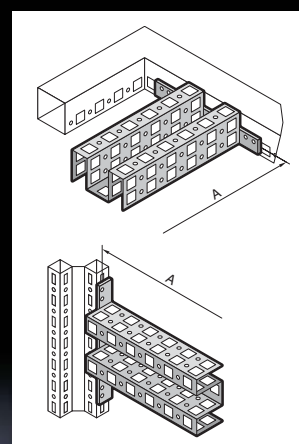
TS punched section with mounting flange, 23 x 73 mm								
For enclosure width/depth mm	Packs of	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	Page
500	4 pc(s).	–	–	425	8612.550	–	–	718
600	4 pc(s).	–	–	525	8612.560	–	–	
800	4 pc(s).	–	–	725	8612.580	–	–	
1000	4 pc(s).	–	–	925	8612.500	–	–	
1200	4 pc(s).	–	–	1125	8612.520	–	–	

¹⁾ A = Rail mounting distance



TS punched section without mounting flange 45 x 88 mm								
For enclosure width/depth mm	Packs of	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	Page
500	2 pc(s).	375	8612.650	375	8612.650	–	–	719
600	2 pc(s).	475	8612.660	475	8612.660	–	–	
800	2 pc(s).	675	8612.680	675	8612.680	–	–	

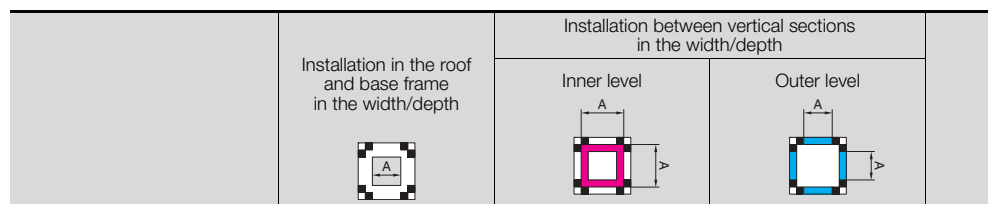
¹⁾ A = Rail mounting distance



Interior installation

Rail systems

TS/SE installation examples with TS system rails



TS punched rail 25 x 38 mm (with snap-on nut M8)								
For enclosure width/depth mm	Packs of	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	Page
500	2 pc(s).	–	–	435	8612.750	–	–	719
600	2 pc(s).	–	–	535	8612.760	–	–	
800	2 pc(s).	–	–	735	8612.780	–	–	

¹⁾ A = Rail mounting distance

TS punched rail, 18 x 38 mm								
For enclosure width/depth mm	Packs of	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	Page
400	4 pc(s).	335	8612.240	–	–	325	8612.240	720
500	4 pc(s).	435	8612.250	–	–	425	8612.250	
600	4 pc(s).	535	8612.260	–	–	525	8612.260	
800	4 pc(s).	735	8612.280	–	–	725	8612.280	

¹⁾ A = Rail mounting distance

Two TS punched rails 18 x 38 mm are included in the supply of enclosures with a mounting plate as an installation aid. After installing the mounting plate, the TS punched rail may be inserted, as shown here.

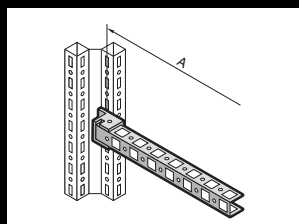
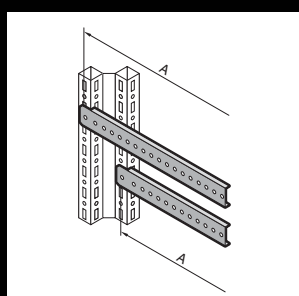
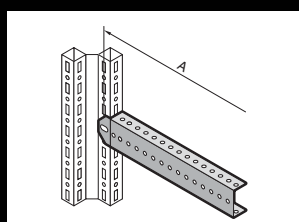
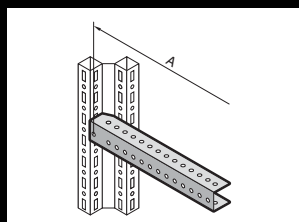
TS support strips								
For enclosure width/depth mm	Packs of	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	Page
400	20 pc(s).	–	–	–	–	325	4694.000	720
500	20 pc(s).	–	–	–	–	425	4695.000	
600	20 pc(s).	–	–	–	–	525	4696.000	
800	20 pc(s).	–	–	–	–	725	4697.000	
400	20 pc(s).	–	–	375	4309.000	–	–	
500	20 pc(s).	–	–	475	4596.000	–	–	
600	20 pc(s).	–	–	575	8800.130	–	–	
–	20 pc(s).	–	–	675	4598.000	–	–	
800	20 pc(s).	–	–	775	4579.000	–	–	
–	20 pc(s).	–	–	875	4599.000	–	–	

¹⁾ A = Rail mounting distance

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

PS punched rails 23 x 23 mm (for installation options, see support bracket TS/PS, angle bracket, mounting bracket)								
For enclosure width/depth mm	Packs of	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	Page
400	12 pc(s).	275	4169.000	275	4169.000	–	–	721
500	12 pc(s).	375	4170.000	375	4170.000	–	–	
600	12 pc(s).	475	4171.000	475	4171.000	–	–	
800	12 pc(s).	675	4172.000	675	4172.000	–	–	
1000	12 pc(s).	875	4173.000	875	4173.000	–	–	
1200	6 pc(s).	1075	4174.000	1075	4174.000	–	–	
1400	6 pc(s).	1275	4393.000	1275	4393.000	–	–	
1600	6 pc(s).	1475	4175.000	1475	4175.000	–	–	
1800	6 pc(s).	1675	4176.000	1675	4176.000	–	–	
2000	6 pc(s).	1875	4177.000	1875	4177.000	–	–	
2200	6 pc(s).	2075	4178.000	2075	4178.000	–	–	

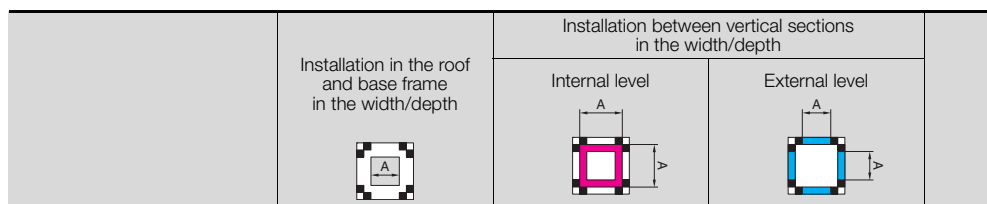
¹⁾ A = Rail mounting distance



Interior installation

Rail systems

TS/SE installation examples with TS system rails



PS punched section without mounting flange 23 x 73 mm (installation option with support bracket TS)								
For enclosure width/depth mm	Packs of	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	Page
400	4 pc(s).	275	4374.000	275	4374.000	–	–	722
500	4 pc(s).	375	4375.000	375	4375.000	–	–	
600	4 pc(s).	475	4376.000	475	4376.000	–	–	
800	4 pc(s).	675	4377.000	675	4377.000	–	–	
1000	4 pc(s).	875	4382.000	875	4382.000	–	–	
1200	4 pc(s).	1075	4378.000	1075	4378.000	–	–	
1800	4 pc(s).	1675	4379.000	1675	4379.000	–	–	
2000	4 pc(s).	1875	4380.000	1875	4380.000	–	–	
2200	4 pc(s).	2075	4381.000	2075	4381.000	–	–	

¹⁾ A = Rail mounting distance

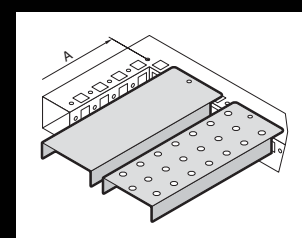
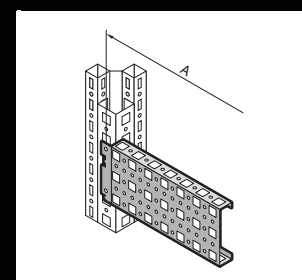
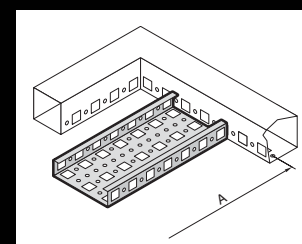
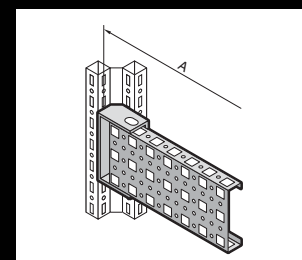
PS punched section with mounting flange 23 x 73 mm (installation options with TS adaptor rail when mounting on the vertical TS enclosure section)								
For enclosure width/depth mm	Packs of	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	Page
400	4 pc(s).	335	8800.640	–	8800.640	–	–	723
500	4 pc(s).	435	8800.650	–	8800.650	–	–	
600	4 pc(s).	535	4364.000	–	4364.000	–	–	
800	4 pc(s).	735	4365.000	–	4365.000	–	–	
1000	4 pc(s).	935	4373.000	–	4373.000	–	–	
1200	4 pc(s).	1135	4367.000	–	4367.000	–	–	

¹⁾ A = Rail mounting distance

Support rails, slotted								
For enclosure width/depth mm	Packs of	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	A ¹⁾ mm	Model No.	Page
400	4 pc(s).	335	4394.000	–	–	–	–	724
500	2 pc(s).	435	4395.000	–	–	–	–	
600	2 pc(s).	535	4396.000	–	–	–	–	
800	2 pc(s).	735	4398.000	–	–	–	–	
Support rails, unslotted								
400	4 pc(s).	335	–	–	–	–	–	724
500	2 pc(s).	435	–	–	–	–	–	
600	2 pc(s).	535	4396.500	–	–	–	–	
800	2 pc(s).	735	4398.500	–	–	–	–	

¹⁾ A = Rail mounting distance

Alternatively, the support rail (slotted and unslotted) can also be fitted with snap-on nut M8, adaptor rail or TS punched rail 25 x 38 mm on the vertical TS enclosure section.



Interior installation

Rail systems



Rails for interior installation for AE

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

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

- TS punched section with mounting flange
- Enclosure lights
- Door-operated switch
- Door stay
- Cable conduit holder

Benefits:

- Only one screw for attaching the rail inside the enclosure
- Larger mounting space than with the previous rail, thanks to separate adaptor for door-operated switches (included with the supply)
- Compatibility with TS 8 system accessories
- Enclosure protection category is retained (no machining required)
- Automatic potential equalisation
- May be retrospectively installed even with the mounting plate in situ. Suitable for installation via gland plates

Material:

- Sheet steel

Surface finish:

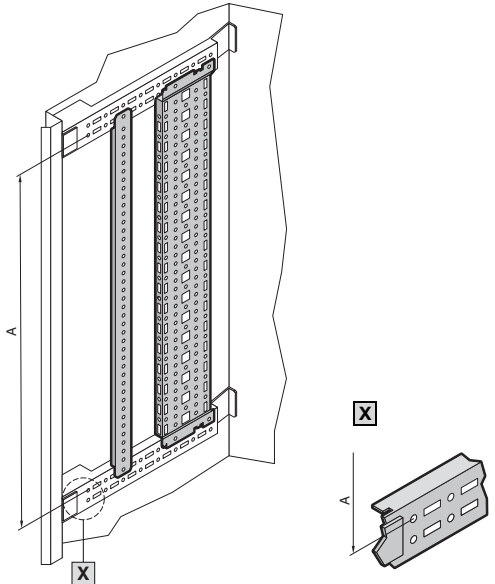
- Zinc-plated

Note:

- Other mounting options:
- Mounting plates, locatable, 8612.400, see page 727
 - Mounting plates, screw-fastening, large, 8612.410, see page 727
 - Mounting plates, screw-fastening, small, 4532.000, see page 728
 - Mounting brackets, 4597.000, see page 728

For enclosure depth mm	Packs of	Model No.
210	4 pc(s).	2383.210
250	4 pc(s).	2383.250
300	4 pc(s).	2383.300
350	4 pc(s).	2383.350

Configuration examples:



A = Bar centre distance



Rails for interior installation for CM, TP

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

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Width mm		Height mm		Packs of	Model No.
CM	TP ¹⁾	CM	TP ²⁾		
600	600	-	675	4 pc(s).	5001.050
800	800	800	960	4 pc(s).	5001.051
1000	1000	1000	-	4 pc(s).	5001.052
1200	1200	1200	-	4 pc(s).	5001.053
-	1600	1400	-	4 pc(s).	5001.054

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

Configuration examples:

See from page 710

TS punched section with mounting flange, 17 x 73 mm

Variable, with 5 rows of holes for universal skeleton structures or partial assembly. Simply locate onto 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 installation
 - In the depth, for outer mounting level
 - In the width, for inner mounting level

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws



Also required:

- For installation in CM, TP:
Rail for interior installation, see page 716



Accessories:

- Screws, see page 737.
- Cable tie for fast assembly 2597.000, see page 785

For the outer mounting level

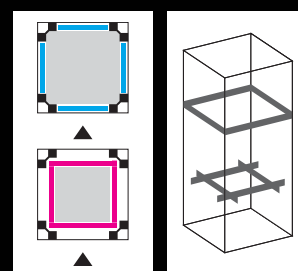
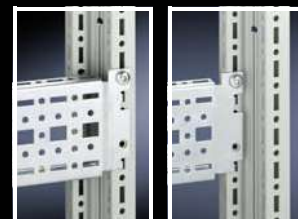
For enclosure width/depth mm	Packs of	Model No.
300	4 pc(s).	8612.130
400	4 pc(s).	8612.140
500	4 pc(s).	8612.150
600	4 pc(s).	8612.160
800	4 pc(s).	8612.180
1000	4 pc(s).	8612.100
1200	4 pc(s).	8612.120

For the inner mounting level or for tubular door frames

For door width mm	For enclosure width/depth mm	Length mm	Packs of	Model No.
400	300	290	4 pc(s).	8612.030
500	400	390	4 pc(s).	8612.040
600	500	490	4 pc(s).	8612.050
-	600	590	4 pc(s).	8612.060
800	-	690	4 pc(s).	8612.070
900	800	790	4 pc(s).	8612.080
1000	-	890	4 pc(s).	8612.090
-	1000	990	4 pc(s).	8612.000
-	1200	1190	4 pc(s).	8612.020

Configuration examples:

See from page 713



Attachment TS

for TS punched section with mounting flange, 17 x 73 mm

Benefits:

- For attaching the TS punched section with mounting flange where access for screw-fastened installed equipment, such as mounting plates, is blocked
- May also be screw-fastened onto the punched section with mounting flange or enclosure frame and used as a support for contact hazard protection covers or master switch trim panels

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

Material:

- Sheet steel

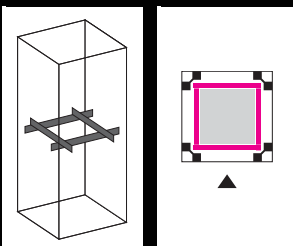
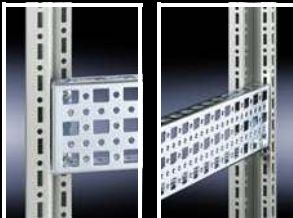
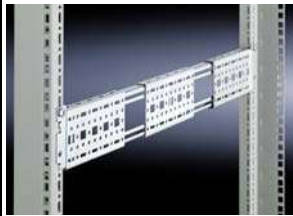
Surface finish:

- Zinc-plated



Interior installation

Rail systems



TS punched section with mounting flange, 17 x 73 mm

Depth-variable, for TE

For flexible interior installation, and/or to accommodate additional built-in components. Punched sections with mounting flanges may be suspended in the enclosure depth between two TE mounting frames with a distance between the 482.6 mm (19") levels of 650 – 820 mm. An additional screw fastening secures the unit.

Length mm	Packs of	Model No.
530 – 700	2 pc(s).	7000.678

Material:

– Sheet steel

Surface finish:

– Zinc-plated

Supply includes:

– Assembly parts

TS punched section with mounting flange, 23 x 73 mm

The alternative to the TS punched section with mounting flange 17 x 73 mm, see page 717, with punchings for cage nuts/threaded blocks instead of the slotted holes top and bottom. Simply locate and secure.

Installation options:

- On the vertical TS, SE enclosure section

Material:

– Sheet steel

Surface finish:

– Zinc-plated

Supply includes:

– Assembly screws

For the inner mounting level

For enclosure width/depth mm	Packs of	Model No.
500	4 pc(s).	8612.550
600	4 pc(s).	8612.560
800	4 pc(s).	8612.580
1000	4 pc(s).	8612.500
1200	4 pc(s).	8612.520



Accessories:

- Screws, see page 737.
- Threaded blocks, cage nuts, see page 736

Configuration examples:

See page 713

TS punched section without mounting flange 45 x 88 mm

Provides support for heavy top-mounted equipment mounted directly on the internal surfaces (e.g. roof). Mounted on the side or rear, the enclosure can then be screw-fastened securely to the machine. The twin profile with 11 rows of holes offers numerous additional opportunities for interior installation.

Installation options:

- On the vertical and horizontal TS, SE enclosure section

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

For the inner mounting level

For enclosure width/depth mm	Packs of	Model No.
500	2 pc(s).	8612.650
600	2 pc(s).	8612.660
800	2 pc(s).	8612.680

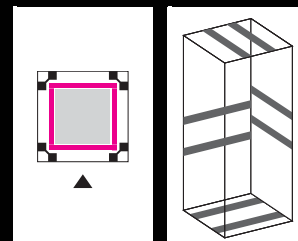


Accessories:

- Screws, see page 737
- Threaded blocks, cage nuts, see page 736

Configuration examples:

See page 713



TS punched rail 25 x 38 mm

For heavy installed equipment, with attachment holes.

Installation options:

- On the vertical TS, SE enclosure section

With 9 mm round holes on a 25 mm pitch pattern on all sides, for mounting

- Support rails, see page 724
- System support rails, see page 724
- C rails 30/15, see page 723
- Cable clamp rails (right angle section), see page 783
- Customer assemblies

Material:

- Sheet steel, 3.0 mm

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

For enclosure width/depth mm	Packs of	Model No.
500	2 pc(s).	8612.750
600	2 pc(s).	8612.760
800	2 pc(s).	8612.780



Also required:

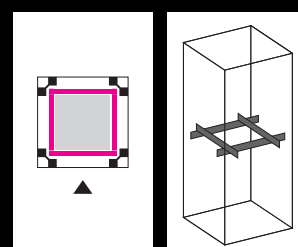
- Snap-on nut M8, 8800.808, see page 729

Note:

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

Configuration examples:

See from page 713.



Base configuration rail for CM, TP

For mounting in the enclosure depth, on the existing threaded bolts, no machining required. TS system punchings on 2 sides. Creates additional installation options.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

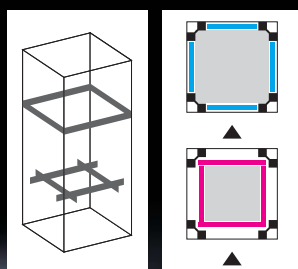
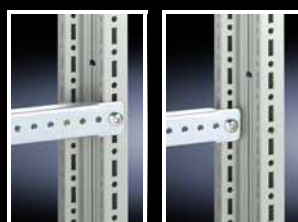
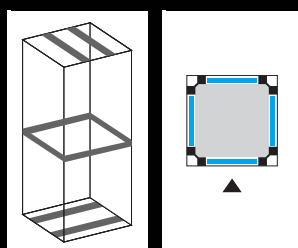
- Assembly parts

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



Interior installation

Rail systems



TS punched rail 18 x 38 mm

Simply locate and secure with a screw. The location system makes assembly and dismantling easier. It only needs to be secured on one side, but may be secured on both sides if required.

Installation options:

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

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

Note:

- In enclosures with a mounting plate, 2 punched rails are already included with the supply

For enclosure width/depth mm	Packs of	Model No.
400	4 pc(s).	8612.240
500	4 pc(s).	8612.250
600	4 pc(s).	8612.260
800	4 pc(s).	8612.280

+ Accessories:

- Screws, see page 737
- Cable ties for fast assembly 2597.000, see page 785
- Cable clamps, see page 784

Configuration examples:

See from page 713

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 tubular door frame TS, SE
- On the perforated door strip CM, TP

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

For the outer mounting level

For enclosure width/depth mm	Length mm	Packs of	Model No.
400	340	20 pc(s).	4694.000
500	440	20 pc(s).	4695.000
600	540	20 pc(s).	4696.000
800	740	20 pc(s).	4697.000

+ Accessories:

- Screws, see page 737
- Cable ties for fast assembly 2597.000, see page 785

Configuration examples:

See from page 713

For the inner mounting level and for mounting on doors

For enclosure width/depth mm	For door width mm	Length mm	Packs of	Model No.
-	400	290	20 pc(s).	4594.000
400	500	390	20 pc(s).	4309.000
500	600	490	20 pc(s).	4596.000
600	-	590	20 pc(s).	8800.130
-	800	690	20 pc(s).	4598.000
800	900	790	20 pc(s).	4579.000
-	1000	890	20 pc(s).	4599.000

TS assembly block

Installation in the vertical TS, SE enclosure sections for mounting PS-compatible individual components.

Material:

- Die-cast zinc

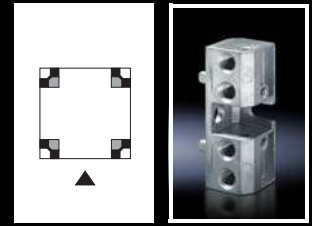
Supply includes:

- Assembly screws

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

Possible alternative:

- Snap-on nut, see page 729



Adaptor rail

for PS compatibility

Installation in the vertical TS, SE enclosure sections (across the entire enclosure height or in sub-sections), and in the case of SE, may additionally be fitted to the top horizontal section in the width (must be cut to length depending on the width of the enclosure), in order to achieve compatibility with:

- PS punched rail, 23 x 23 mm
- PS punched section without mounting flange 23 x 73 mm
- PS punched section with mounting flange 23 x 73 mm

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

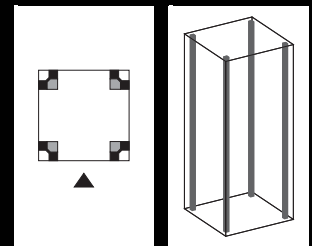
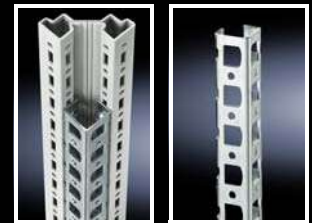
For enclosure height mm	Packs of	Model No.
1800	4 pc(s).	8800.380
2000	4 pc(s).	8800.300
2200	4 pc(s).	8800.320

Accessories:

- Screws, see page 737

Possible alternative:

- Snap-on nut, see page 729



PS punched rails 23 x 23 mm

for TS, SE

Installation options:

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

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Length mm	For WHD mm	Packs of	Model No.
295	400	12 pc(s).	4169.000
395	500	12 pc(s).	4170.000
495	600	12 pc(s).	4171.000
695	800	12 pc(s).	4172.000
895	1000	12 pc(s).	4173.000
1095	1200	6 pc(s).	4174.000
1295	1400	6 pc(s).	4393.000
1495	1600	6 pc(s).	4175.000
1695	1800	6 pc(s).	4176.000
1895	2000	6 pc(s).	4177.000
2095	2200	6 pc(s).	4178.000

! Also required:

- U nuts, see page 735
- Mounting brackets TS/PS, see page 730 or
- Angle brackets, support brackets TS/PS, see page 731
- Adaptor rail for PS compatibility, see page 721

+ Accessories:

- Cable attachment, see page 785
- Screws, see page 737
- Cable ties for fast assembly 2597.000, see page 785.

Configuration examples:

See from page 713



Interior installation

Rail systems



Punched rail 23 x 23 mm

for Flex-Block

Supports tool-free installation in two levels via a plug-in system in the Flex-Block depth. For the installation of cable clamp rails.

Installation options:

- In the width and depth

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

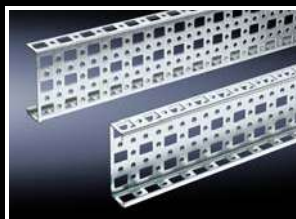
- 12 punched rails
- Assembly parts for mounting

Length mm	For width/depth mm	Packs of	Model No.
245	400	12 pc(s).	4169.500
345	500	12 pc(s).	4170.500
445	600	12 pc(s).	4171.500
645	800	12 pc(s).	4172.500



Accessories:

- Cable clamp rail (PS 4193.000 etc.), see page 783
- Adaptor rail for PS compatibility, see page 721



PS punched section without mounting flange 23 x 73 mm

for TS, SE

Installation options:

- On the vertical enclosure section
 - Directly via support brackets TS
 - Via adaptor rail for PS compatibility in conjunction with support brackets PS
- On the horizontal enclosure section
 - Directly via support brackets PS

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Length mm	For WHD mm	Packs of	Model No.
295	400	4 pc(s).	4374.000
395	500	4 pc(s).	4375.000
495	600	4 pc(s).	4376.000
695	800	4 pc(s).	4377.000
895	1000	4 pc(s).	4382.000
1095	1200	4 pc(s).	4378.000
1695	1800	4 pc(s).	4379.000
1895	2000	4 pc(s).	4380.000
2095	2200	4 pc(s).	4381.000



Also required:

- Support brackets PS/TS, see page 731

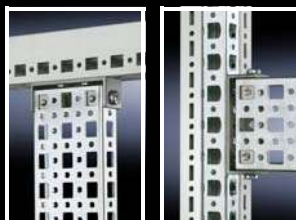


Accessories:

- Screws, see page 737.
- Cable ties for fast assembly 2597.000, see page 785
- U nuts, see page 735

Configuration examples:

See from page 713



PS punched section with mounting flange 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
 - Via adaptor 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:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

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



Also required:

- Adaptor rail for PS compatibility (when mounting on the vertical enclosure section), see page 721

Configuration examples:

See from page 713



C rails 30/15

to EN 60 715 for TS, SE

Installation options:

- On the vertical TS, SE enclosure section
 - Via snap-on nut 8800.808 (fig. 1)
 - Via adaptor rail for PS compatibility
- On the horizontal TS enclosure section (fig. 2)
- In the case of SE, additionally on the horizontal section
 - In the width (bottom/top)
 - In the depth, bottom (without mounting plate)
 - In the depth, top using snap-on nuts 8800.808 (fig. 1)
- On base configuration rail for CM

Material:

- Sheet steel

Surface finish:

- Zinc-plated

For enclosure width/depth mm	Length mm	Packs of	Model No.
500	455	6 pc(s).	4943.000
600	555	6 pc(s).	4944.000
800	755	6 pc(s).	4945.000
1000	955	6 pc(s).	4946.000
1200	1155	6 pc(s).	4947.000



Accessories:

- Cable clamps, see page 784
- Support bracket or spacer, see page 732
- Quick-assembly block, see page 733
- Snap-on nut M8, 8800.808, see page 729
- Adaptor rail, see page 721



Possible alternative:

- Rail for EMC shielding bracket and strain relief, see page 759



Interior installation

Rail systems



C rails

for TS, SE

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

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

For enclosure width/depth mm	Length mm	Packs of	Model No.
400	298	4 pc(s).	7828.040
500	398	4 pc(s).	7828.050
600	498	4 pc(s).	7828.060
800	698	4 pc(s).	7828.080
1000	898	4 pc(s).	7828.100
1200	1098	4 pc(s).	7828.120



Accessories:

- Cable clamps, see page 784
- Angle bracket C section, see page 732



System support rails

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

Installation options:

- On the vertical TS, SE enclosure section
 - Via snap-on nut 8800.808 (fig. 1)
 - Via adaptor 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)
- In the case of SE, additionally on the horizontal section
 - In the width, bottom/top
 - In the depth, bottom (without mounting plate)
 - In the depth, top (without mounting plate) using snap-on nuts 8800.808 (fig. 1)
- On base configuration rail for CM

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

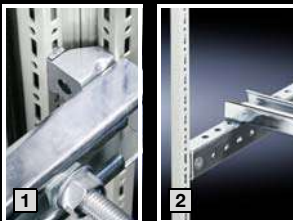
- 2 system support rails (45 x 25 mm)
- 4 T-head screws M12 x 60 mm
- Assembly parts

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



Accessories:

- Width divider e.g. for the installation of 2 system support rails (for 600 mm width) in 1200 mm wide enclosures, see page 630
- Snap-on nut M8, 8800.808, see page 729
- Adaptor rail, see page 721
- TS punched rail 25 x 38 mm, see page 719



Support rails

for TS, SE, CM

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

Installation options:

- On the vertical TS, SE enclosure section
 - Via snap-on nut 8800.808 (fig. 1)
 - Via adaptor 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
- In the case of SE, additionally on the horizontal section
 - In the width
 - In the depth, top using snap-on nut 8800.808
- On base configuration rail for CM

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Further technical information available on the Internet.

For enclosure width/depth mm	Packs of	Model No.	
		Slotted	Unslotted
400	4 pc(s).	4394.000	-
500	4 pc(s).	4395.000	-
600	4 pc(s).	4396.000	4396.500
800	4 pc(s).	4398.000	4398.500

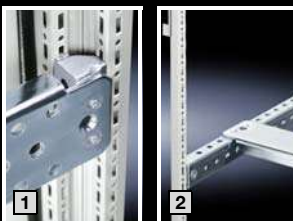
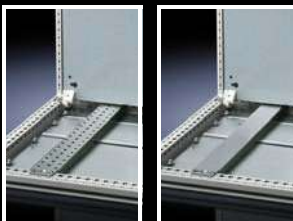


Accessories:

- Snap-on nut M8, 8800.808, see page 729
- Adaptor rail, see page 721
- TS punched rail 25 x 38 mm, see page 719

Configuration examples:

See from page 713



Interior installation

Rail systems

Support rail 65 x 42 mm

for TS, SE

Benefits:

- For heavy assemblies up to 5000 N per support rail

Total permissible static load:

- 10000 N per enclosure

Material:

- Steel

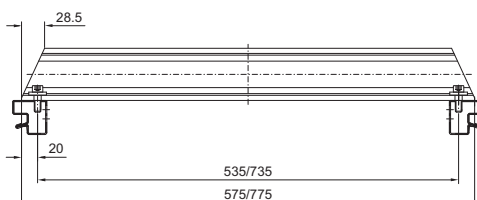
Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

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



Support rails TS 35/15

to EN 60 715 for TS, SE

- Mounting on the TS vertical section via
- Snap-on nut M8, 8800.808, see page 729
 - Assembly block, see page 721 or
 - Adaptor rail, see page 721

For enclosure width/depth mm	Support rails length mm	Packs of	Model No.
500	455	6 pc(s).	4933.000
600	555	6 pc(s).	4934.000
800	755	6 pc(s).	4935.000
1200	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 sized to the enclosure width

For enclosure width mm	Support rails length mm	Version	Packs of	Model No.
150	137	TS 35/7.5	10 pc(s).	2314.000
200	187		10 pc(s).	2315.000
300	287		10 pc(s).	2316.000
400	387		10 pc(s).	2317.000
500	487	TS 35/15	10 pc(s).	2318.000
600	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	2 m	6 pc(s).	2313.150
TS 35/7.5	2 m	6 pc(s).	2313.750

Mounting clip

for support rails

For fast, secure attachment of:

- Cable ducts
- Mounting plates
- Mounting angles

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

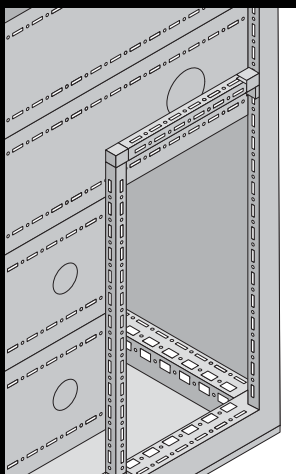
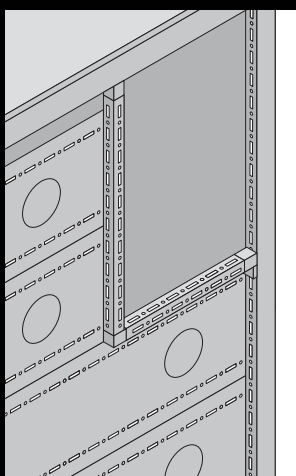
Simply pre-assemble the mounting clip on the part to be installed, then snap into position on the support rail.

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



Interior installation

Rail systems



TS punched rail 17 x 17 mm

for TS

Mounting angle with TS pitch on three sides.
Suitable for

- Building an auxiliary construction for dividing the busbar space
- Individual use as mounting frame for low and medium loads
- Fastening to the internal or external mounting level of the TS 8 enclosure

Material:

– Sheet steel, 1.5 mm

Surface finish:

– Zinc-plated

Note:

– Where necessary, punched rails should be shortened to the applicable mounting dimension

Length	For compartment depth mm	For compartment height, top mm	For compartment height, bottom mm	For enclosure width/depth mm		Packs of	Model No.	Page
				Inner mounting level	Outer mounting level			
62.5	425	–	–	–	–	12 pc(s).	9673.915	
137.5	600	–	–	–	–	12 pc(s).	9673.920	
262.5	425/800	–	–	–	400	12 pc(s).	9673.940	
487.5	–	350 – 500	350 – 400	400/500	500/600	12 pc(s).	9673.953	
787.5	–	550 – 800	450 – 700	600/800	800	12 pc(s).	9673.983	
862.5	–	–	750 – 800	–	–	12 pc(s).	9673.995	

Also required

Frame connector piece	24 pc(s).	9673.901	733
T-connector piece	24 pc(s).	9673.903	734
Corner connector	10 pc(s).	9673.902	734

Interior installation

Rail systems

C rails

for TS, SE

For attaching cables and lines.

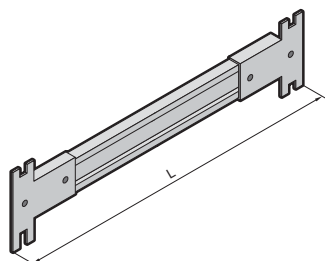
Material:

- Sheet steel

Supply includes:

- 4 C rails
- 8 brackets
- Assembly parts

For enclosure width/depth mm	Length (L) mm	Packs of	Model No.
600	600	4 pc(s).	9660.210
800	800	4 pc(s).	9660.220



Punched section with mounting flange

for coupling section

For assembling a Maxi-PLS or Flat-PLS busbar system directly beneath or above the circuit-breaker.

This punched section with mounting flange may be used without conflict in conjunction with the compartment side panel modules. It is attached to the outer level of the TS 8 enclosure system, but the PS punchings support a mounting level as in the roof or base frame, thereby facilitating the use of busbar system attachment for the roof/base section.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

For enclosure width/depth mm	Packs of	Model No.
600	2 pc(s).	9674.056
800	2 pc(s).	9674.058



Mounting plates

Locatable

on the

- Vertical TS, SE enclosure section
- TS punched section w. mounting flange, 17 x 73 mm

Material:

- Sheet steel

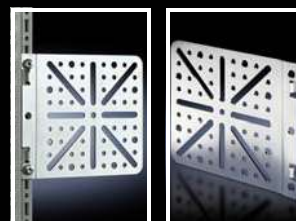
Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

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



Mounting plates

Screw-fastened, large

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

Material:

- Sheet steel

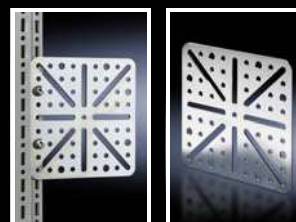
Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

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



Interior installation

Rail systems



Mounting plates

Screw-fastened, small

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

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



Mounting plates

with integral top hat rail, for TS, TS IT, SE

For direct snap-mounting of components such as speed control, enclosure internal thermostat and hygrostat.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Packs of	Model No.
1 pc(s).	7526.964



Mounting bracket

May be screw-fastened onto all enclosures and mounting parts with system punchings on a 25 mm pitch pattern.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

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

+ Accessories:

- Screws, see page 737
- Cable ties for fast assembly 2597.000, see page 785



Mounting bracket

for interior installation

For installing punched sections with mounting flanges and support strips in

- Comfort Panel horizontal/vertical from 74 mm installation depth

or for installing in:

- Optipanel from an installation depth of 100 mm

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

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



		Comfort Panel/Optipanel	Page
		Front panel width 482.6 mm (19")	
Punched section with mounting flange	horizontal	8612.150	717
	vertical		
Support strips	horizontal	4695.000	720
	vertical		

Interior installation

Assembly components

Snap-on nut TS

Metric thread for vertical TS, SE enclosure section. To install, insert into slot and clip into position. The snap-on nut is then secure. As the screw is tightened, it is securely tensioned against the section, and potential equalisation is automatically created.

Installation options:

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

Material:

- Precision-cast stainless steel

Accessories for interior installation

- 1 Support rails, see page 724
- 2 Cable clamp rails, see page 783
- 3 C rails 30/15, see page 723
- 4 System support rails, see page 724
- 5 TS punched rails 25 x 38 mm, see page 719

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 737



Adaptor bracket TS

For external mounting of

- System lights
 - Cable ducts
- on the vertical TS enclosure section and on the horizontal SE enclosure section (top, in the width)

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

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



Interior installation

Assembly components



Mounting bracket TS

Offers variable mounting options for the punched rail 23 x 23 mm, e.g. for supporting external surfaces or creating an additional internal level.

Material:

– Die-cast zinc

Supply includes:

– 24 screws 5.5 x 13 mm

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

+ **Accessories:**

– U nuts (recommendation: M6), see page 735

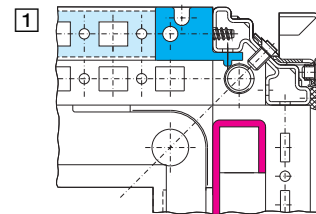
Installation options:

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



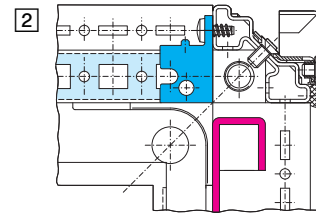
1 Support of external surfaces with two mounting options:

- Without mounting plate (photo)
- With mounting plate (drawing)

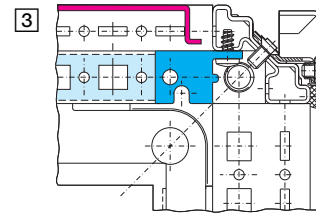


Two installation options for the inner mounting level:

2 If there is no divider panel fitted



3 With a divider panel fitted, and without or with a mounting plate in a set forward position



Mounting bracket PS

For variable attachment of punched rail 23 x 23 mm.

Installation options:

- Optionally flush with:
 - Outer enclosure edge or
 - Enclosure clearance width
- On the vertical TS, SE enclosure section via
 - Adaptor rail for PS compatibility, see page 721
- 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 system punching 12.5 x 10.5 mm

Material:

– Die-cast zinc

Supply includes:

- 1 pc(s) =
 - 1 mounting bracket,
 - 1 screw M6 x 12 mm,
 - 1 cage nut M6

Packs of	Model No.
24 pc(s).	4182.000

! **Also required:**

- U nuts (recommended: M6), see page 735
- Multi-tooth screws M6 x 12 mm, see page 737

Interior installation

Assembly components

Angle bracket PS

For quick attachment of punched rails 23 x 23 mm.

Installation options:

- On the vertical TS, SE enclosure section via
 - Adaptor rail for PS compatibility, see page 721
- 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 system punching 12.5 x 10.5 mm

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- 1 pc(s). =
 - 1 angle bracket, left,
 - 1 angle bracket, right,
 - 2 metal screws 5.5 x 13 mm

Packs of	Model No.
12 pc(s).	4181.000



Also required:

- U nuts (recommended: M6), see page 735
- Multi-tooth screws M6 x 12 mm, see page 737



Support bracket TS

For the attachment of

- Punched sections without mounting flanges 23 x 73 mm or
- Punched rails 23 x 23 mm

Installation options:

- On the vertical TS, SE enclosure section
 - on a 25 mm pitch pattern
 - in 2 mm increments.
- On the horizontal SE enclosure section, in the width, top

Material:

- Die-cast zinc

Supply includes:

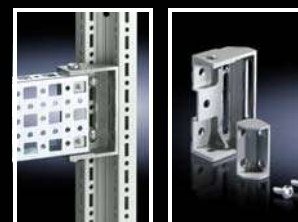
- 1 pc(s). =
 - 1 support bracket,
 - 1 stay,
 - 3 metal screws 5.5 x 13 mm

Packs of	Model No.
6 pc(s).	8800.330



Also required:

- U nuts (recommended: M6), see page 735
- Multi-tooth screws M6 x 12 mm, see page 737



Support bracket PS

For the attachment of

- Punched sections without mounting flanges 23 x 73 mm or
- Punched rails 23 x 23 mm

Installation options:

- On the vertical TS enclosure section via
 - Snap-on nut 8800.806, see page 729, or
 - Adaptor rail for PS compatibility, see page 721
- 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 system punching 12.5 x 10.5 mm

Material:

- Die-cast zinc

Supply includes:

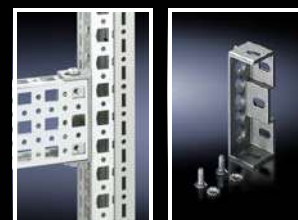
- 1 pc(s). =
 - 1 support bracket,
 - 2 countersunk screws,
 - 2 serrated lock washers

Packs of	Model No.
24 pc(s).	4183.000



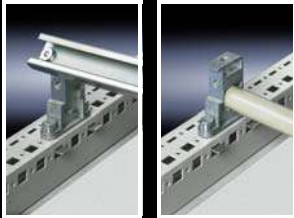
Also required:

- U nuts (recommended: M6), see page 735
- Multi-tooth screws M6 x 12 mm, see page 737
- Adaptor rail for PS compatibility (when mounting on the vertical enclosure section), see page 721



Interior installation

Assembly components



Bracket/spacer

For the attachment of C rails, punched rails or cable clamp rails (angle section). On the sides, to accommodate square sections or tubes (\varnothing 20 mm). Attachment points with M8 thread.

Installation options:

- On the vertical TS, SE enclosure section via
 - Snap-on nut 8800.808, see page 729 or
 - Adaptor rail for PS compatibility, see page 721
- 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 system punching 12.5 x 10.5 mm

Packs of	Model No.
6 pc(s).	4199.000

Material:

- Die-cast zinc

Supply includes:

- 1 pc(s). =
 - 1 bracket/spacer,
 - 2 screws M8 x 16 mm,
 - 2 spring lock washers,
 - 2 cage nuts M8,
 - 2 serrated lock washers,
 - 2 metal screws

Accessories:

- Angle piece 4134.000, see page 733



Angle bracket, C-section

for attachment to the horizontal section

For fast attachment to the horizontal enclosure section or for cascaded cable routing between two horizontal punched sections with or without mounting flanges.

Installation options:

- 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 system punching 12.5 x 10.5 mm
- On the vertical TS, SE enclosure section via adaptor rails for PS compatibility

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Angle bracket, left
- Angle bracket, right
- Assembly parts

Packs of	Model No.
8 pc(s).	7091.100

Also required:

- C rails, see page 724

Assembly instruction:

- Two angle brackets are needed to secure each C rail

Accessories:

- TS punched section with mounting flange, 17 x 73 mm, see page 717
- Adaptor rail, see page 721

Interior installation

Assembly components

Quick-assembly block

For a variety of installation options.

Installation options:

- On the vertical TS, SE enclosure section via
 - Snap-on nut 8800.808, see page 729
 - or
 - Adaptor rail for PS compatibility, see page 721
- 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 system punching 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 threaded blocks M8
- 24 screws M8 x 12 mm
- 24 square nuts M8



Angle piece

For assembling punched rails and mounting surfaces with a 45° incline.

Installation options:

- On the vertical TS, SE enclosure section via
 - Snap-on nut 8800.806, see page 729
 - or
 - Adaptor rail for PS compatibility, see page 721
- 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 system punching 12.5 x 10.5 mm

Packs of	Model No.
12 pc(s).	4134.000

Material:

- Angle pieces: Die-cast zinc
- Insulating pieces: Plastic

Supply includes:

- 1 pc(s). =
 - 1 angle piece,
 - 1 insulating piece,
 - 1 insulating screw,
 - 2 assembly screws,
 - 1 threaded block M8



Frame connector piece

for TS punched rail 17 x 17 mm

Mounting part with integral M4 threads for attaching the TS punched rail 17 x 17 mm to the horizontal and vertical TS frame section (external level).

The frame connector piece can be used as a self-holding construction aid in the TS pitch and fastened with a screw to the frame. Can also be used for fastening other sections with TS pitch.

Material:

- Die-cast zinc

Supply includes:

- Assembly parts

Packs of	Model No.
24 pc(s).	9673.901



Interior installation

Assembly components



T-connector piece

for TS punched rail 17 x 17 mm

Mounting piece with integral M4 threaded holes for attaching the TS punched rail 17 x 17 mm

- to the horizontal and vertical TS chassis
- to TS punched rail 17 x 17 mm
- to the vertical TS frame section (internal level).

The T-connector piece can be used as a self-holding construction aid in the TS pitch and fastened with a screw to the frame. Can also be used for fastening other sections with TS pitch.

Material:

- Die-cast zinc

Supply includes:

- Assembly parts

Packs of	Model No.
24 pc(s).	9673.903



Corner connector

for TS punched rail 17 x 17 mm

Mounting part with integral M4 threads for connecting two TS punched rails 17 x 17 mm at an angle of 90° across the corner. Required for building the auxiliary construction for the busbar space separation.

Material:

- Die-cast zinc

Supply includes:

- Assembly parts

Packs of	Model No.
10 pc(s).	9673.902



Universal bracket

For the installation of

- Enclosure lights in
 - Compact enclosures AE
- Door-operated switches in
 - Compact enclosures AE
 - TopConsole system TP
- Cable conduit holders 2593.000 and 2591.000 in
 - Compact enclosures AE
- Support rails for terminals in
 - Command panels and command panel housings with door

Mounting screws are concealed when the door is closed. Existing holes for mounting blocks or hinges may be used with AE.

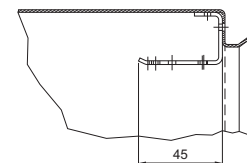
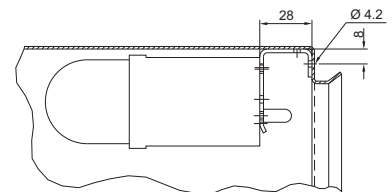
Material:

- Sheet steel, zinc-plated

Supply includes:

- Assembly parts

Packs of	Model No.
6 pc(s).	2373.000



Interior installation

Assembly components

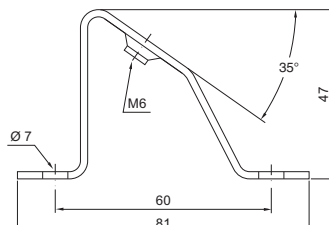
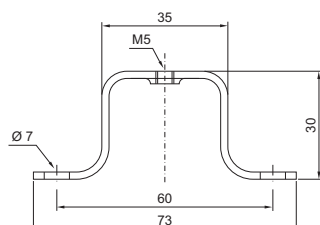
Rail mounting bracket

For individual rail mounting.

Material:

– Sheet 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 installation, e.g. mounting of cable ties, PS punched rails, top hat rails and C rails (e.g. for a second pair of mounting angles).

Supply includes:

– Assembly parts

Packs of	Model No.
20 pc(s).	2574.000



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
- Punched section with mounting flange, 23 x 73 mm

For mounting punched rails and punched sections without mounting flanges 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 737



Interior installation

Assembly components

Cage nuts/threaded blocks

Installation options:

- On enclosures and rails with rectangular system punching 12.5 x 10.5 mm, such as
- TS, SE enclosure section,
 - vertically, via adaptor rail for PS compatibility
 - TS horizontally, direct
 - SE horizontally, bottom, direct
 - SE horizontally, 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
 - Punched section with mounting flange, 23 x 73 mm

Possible alternative:

- On the vertical TS enclosure section TS snap-on nuts, see page 729



Cage nut

The compression spring, designed as an insertion aid, ensures reliable mechanical and electrical connection in the system punchings.

Thread	Packs of	Model No.
M5	50 pc(s).	4166.000
M6	50 pc(s).	4164.000
M8	50 pc(s).	4165.000



Threaded block

With snap-off insertion aid, die-cast zinc.

Thread	Packs of	Model No.
M6	50 pc(s).	4162.000
M8	50 pc(s).	4163.000



Cage nut

The nuts are inserted from the same side as screw-fastening takes place. Consequently, attachment points in the same height or width may also be used around corners. The spring cage also ensures 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
- Optipanel from an installation depth of 100 mm
- Compact Panel

The spring ensures reliable protection against unintentional displacement.

Other interior installation, e.g. with

- Mounting bracket 4597.000 (see page 728) or
- Mounting bracket components for interior installation 6205.100 (see page 728)

Material:

- Sheet steel, zinc-plated

Packs of	Model No.
50 pc(s).	6108.000

Interior installation

Assembly components

Threaded inserts M6

for KS

For securing installed equipment to the moulded bosses in the door and in the enclosure rear panel. Screw length available for insertion: 8 mm.

Packs of	Model No.
20 pc(s).	1482.000



Multi-tooth screws

M6 x 12 to fit:

- Snap-on nuts (8800.806)
- U nuts for punched rails (4179.000)
- Cage nuts (4164.000)
- Threaded blocks (4162.000)

M8 x 12 to fit:

- Snap-on nut (8800.808)

Multi-tooth drive for optimum transmission of torques, an extended tool life and increased safety and reliability when tightening and loosening screw connections.

Type of screw	Dimensions mm	Packs of	Model No.
Multi-tooth screws	M6 x 12	300 pc(s).	2504.500
	M8 x 12	300 pc(s).	2504.800
Metal multi-tooth screws	5.5 x 13	300 pc(s).	2486.500
Metal multi-tooth 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
■ Multi-tooth pan-head screws	M5 x 12	500 pc(s).	2489.500
Self-tapping screws	ST 4.8 x 16	300 pc(s).	2487.000

Metal multi-tooth screws

For the round holes Ø 4.5 mm in the enclosure section, punched rails and punched sections without mounting flanges.

Self-tapping screws

For the round holes Ø 4.5 mm in the enclosure section, punched rails and punched sections without mounting flanges.

Self-tapping screws

Mark, drill and tighten in a single operation using electric or pneumatic tools.

For metal thickness: 0.8 – 3 mm

Length: 16 mm

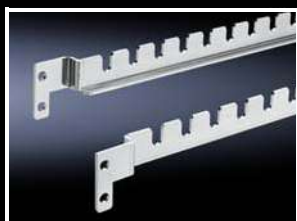
Usable length: 9.5 mm

Width across flats: 8 mm



Interior installation

Assembly components



TS adaptor rail for wiring systems

Adaptor rail for the Lütze LSC wiring system

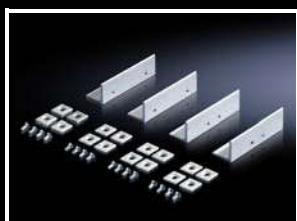
Supply includes:

- 6 adaptor rails,
- 24 spring lock washers,
- 24 metal screws 5.5 x 13 mm

Note:

- Mounting parts for the LSC wiring system not included with the supply

For enclosure depth mm	Packs of	Model No.
500	6 pc(s).	8800.150
600		8800.160
800		8800.180



Kit

for separate frame TS

Any TS 8 frame can be easily converted to a rack suitable for dismantling. To this end, the frame sections in the roof and base frame are separated, optionally in the width or depth. The four connection components are inserted into the frame section and screw-fastened. The external dimensions of the frame remain unchanged.

Supply includes:

- Assembly parts

Note:

- The maximum achievable IP protection category is restricted by separation of the frame

Packs of	Model No.
4 pc(s).	7829.400



Interior installation

Component shelves for frame attachment

Component shelf for frame attachment

Enclosure width 600 and 800 mm for TS

For installation in enclosures **without** 482.6 mm (19") accommodation.

Max. depth of component shelves = Enclosure depth -100 mm

Technical specifications:

- Mounting bolts or mounting rails may be installed on a 25 mm pitch pattern in the enclosure depth
- Mounting hole for handles provided.
- Slotted component shelf

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 7035

Supply includes:

- Assembly parts



Enclosure width 600 mm

Load capacity kg (static surface load)	50	50	50	50	100	100	100	100
Component shelf width mm	471	471	471	471	471	471	471	471
Component shelf depth mm	400	500	600	700	400	500	600	700
Component shelf height mm	29	29	29	29	45	45	45	45
Model No.	7164.035	7165.035	7166.035	7166.735	7464.035	7465.035	7466.035	7466.735

Enclosure width 800 mm

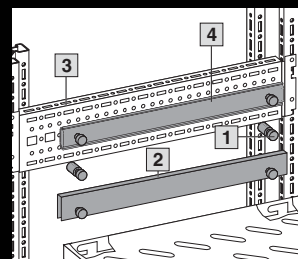
Load capacity kg (static surface load)	50	50	50	50	100	100	100	100
Component shelf width mm	671	671	671	671	671	671	671	671
Component shelf depth mm	400	500	600	700	400	500	600	700
Component shelf height mm	29	29	29	29	45	45	45	45
Model No.	7184.035	7185.035	7186.035	7186.735	7484.035	7485.035	7486.035	7486.735

! Also required:

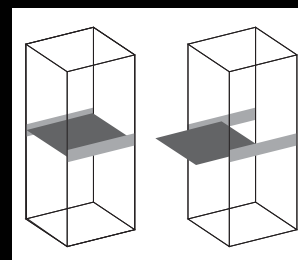
TS punched section with mounting flange, 17 x 73 mm, as installation kit for enclosure depth, see page 746	500	8612.050	8612.050	8612.050	8612.050	8612.050	8612.050	8612.050	8612.050
	600	8612.060	8612.060	8612.060	8612.060	8612.060	8612.060	8612.060	8612.060
	800	8612.080	8612.080	8612.080	8612.080	8612.080	8612.080	8612.080	8612.080
	1000	8612.000	8612.000	8612.000	8612.000	8612.000	8612.000	8612.000	8612.000
	1200	8612.020	8612.020	8612.020	8612.020	8612.020	8612.020	8612.020	8612.020

+ Accessories:

Telescopic slides, see page 746	7061.000	7081.000	7161.000	7161.700	7064.000	7065.000	7066.000	7066.700
Handles for component shelves, see page 747	5501.730	5501.730	5501.730	5501.730	5501.730	5501.730	5501.730	5501.730
Cable support, hinged	see page 747							



- 1 Assembly bolts
- 2 Mounting rails
- 3 Installation kit
- 4 Telescopic slides



Interior installation

Component shelves for frame attachment



Component shelf, pull-out

for TS, SE, PC, IW

For direct mounting on the vertical TS enclosure section.

Load capacity:

– 30 kg surface load, static

Material:

– Sheet steel

Colour:

– RAL 7015

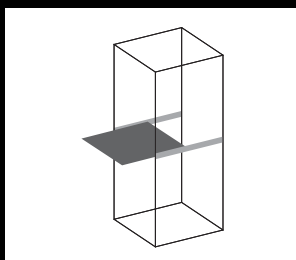
Supply includes:

– 2 telescopic slides.

For enclosures ¹⁾		Support area		Model No.
Width mm	Depth mm	Width mm	Depth mm	
600	600	465	545	6902.960²⁾
600	800	465	745	6902.980

¹⁾ For enclosures without a mounting plate

²⁾ May also be installed in 800 mm deep enclosures based on TS (pull-out rear attachment)



Component shelf, static installation

for TS, SE, PC, IW, prepared for fan expansion kit

For direct mounting on the vertical TS enclosure section. Simply locate into 4 pre-fitted screws and secure.

Load capacity:

– 40 kg surface load, static

Material:

– Sheet steel

Colour:

– RAL 7015

Supply includes:

– Assembly parts

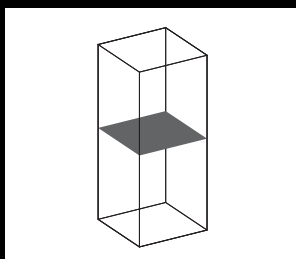
For enclosures ¹⁾		Support area		Model No.
Width mm	Depth mm	Width mm	Depth mm	
600	600	507	550	8800.900
600	800	507	750	8800.910

¹⁾ For enclosures without a mounting plate



Accessories:

– Fan expansion kit 7980.XXX, see page 533



Drawer tray

Pull-out

For enclosures with TS frame construction in series IW, PC.

Width 600 mm and depth 600 – 800 mm.

Tray height: 83 mm

Load capacity:

– 40 kg surface load, static

Material:

– Sheet steel

Colour:

– RAL 7035

Supply includes:

– 2 telescopic slides.

Packs of	Model No.
1 pc(s).	6902.700

Interior installation

Component shelves for attachment to the 482.6 mm (19") section

Component shelf, 482.6 mm (19") installation

for enclosures with cranked or L-shaped mounting angles front and rear

Depending on their depth, the component shelves have several attachment points, so the distance between the 482.6 mm (19") mounting angles is variable within certain limits. Each component shelf secured in this way can be retrospectively upgraded to full withdrawal using telescopic slides. For this purpose, the telescopic slides are screw-fastened in place of the spacers.

Load capacity:

– 50 kg surface load, static

Material:

– Sheet steel

Surface finish:

– Spray-finished

Colour:

– RAL 7035

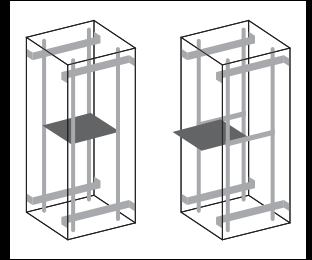
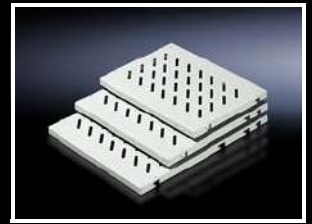
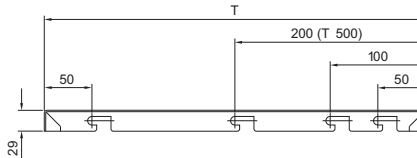
Supply includes:

– Assembly parts



Also required:

- Adaptor for L-shaped mounting angles 7827.300, see page 746
- Installation kit, depth variable 7063.850, for flexible mounting on L-shaped mounting angles, see page 745



Component shelf width mm	409	409	409	409
Component shelf depth mm	400	500	600	700
Distance between levels (X)	348/398	348/448/498	448/548/598	548/648/698
	7144.035	7145.035	7145.635	7145.735



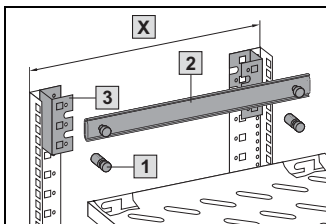
Accessories:

Telescopic slides for 50 kg, see page 746	7061.000	7081.000	7161.000	7161.700
Handles for component shelf, see page 747	5501.730	5501.730	5501.730	5501.730
Cable support, hinged	see page 747			

For TS:

Note for installation in network enclosures based on TS, L-shaped mounting angle:

If L-shaped mounting angles are used, adaptor 7827.300 is required, see page 746.

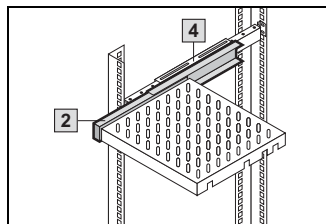


- 1** Spacers
- 2** Telescopic slides
- 3** Adaptors
- X** Distance between levels

For TS, 482.6 mm (19") system punchings:

Note regarding flexible installation between two L-shaped mounting angles:

May be mounted directly on the 482.6 mm (19") system punchings using the depth-variable installation kit, 7063.850, see page 745.



- 2** Telescopic slides
- 4** Installation kit, depth-variable

Interior installation

Component shelves for attachment to the 482.6 mm (19") system



Component shelf, static installation

482.6 mm (19"), depth-variable for TS IT, TE

For static installation between two 482.6 mm (19") mounting levels.

- Contact width: 489 mm
- Depth-variable to adapt to individual distances between levels
- Tool-free, time-saving one-man assembly

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 9005

Supply includes:

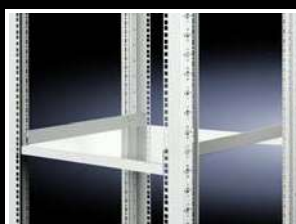
- Assembly parts

Distance between levels mm	Load capacity, static kg	Height U	Packs of	Model No.
400 – 600	50	½	1 pc(s).	5501.655
600 – 900	50	½	1 pc(s).	5501.665
400 – 600	100	1	1 pc(s).	5501.695
600 – 900	100	1	1 pc(s).	5501.705



Accessories:

- Cable support, hinged, see page 747



Component shelf, static installation

for TE

The component shelf is attached directly at the side to the front and rear 482.6 mm (19") mounting frames for TE.

Material:

- Sheet steel

Colour:

- RAL 7035

Supply includes:

- Assembly parts

Note:

- Not suitable for combination with telescopic slides

Contact surface, width mm	505
Contact surface, depth mm	410
Distance between 482.6 mm (19") levels mm	495
Load capacity (static) N	300
Packs of	1 pc(s).
Model No.	7000.620

Interior installation

Component shelves for attachment to the 482.6 mm (19") system

Component shelf, pull-out

482.6 mm (19") for TS IT, TE

For mounting between two 482.6 mm (19") mounting levels.

- Contact width: 419 mm
- Depth-variable to adapt to individual distances between levels
- Tool-free, time-saving one-man assembly from the enclosure front
- Self-locking
- Full withdrawal

Material:

- Sheet steel

Surface finish:

- Component shelf: Spray-finished
- Mounting kit/telescopic slides: Zinc-plated

Colour:

- Component shelf: RAL 9005

Supply includes:

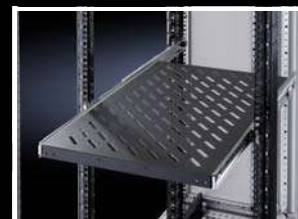
- Component shelf, slotted
- Telescopic slide with mounting kit
- Assembly parts

Distance between levels mm	Load capacity, static kg	Height U	Depth mm	Packs of	Model No.
400-600	50	1	500	1 pc(s).	5501.675
600-900	50	1	700	1 pc(s).	5501.685
400-600	100	1½	500	1 pc(s).	5501.715
600-900	100	1½	700	1 pc(s).	5501.725



Accessories:

- Handle for component shelf 5501.730, see page 747
- Cable support, hinged, see page 747



Component shelf, pull-out

for TE

For mounting between two 482.6 mm (19") mounting angles.

Benefits:

- Depth-variable to adjust to the distance between 482.6 mm (19") levels in a 25 mm pitch pattern
- Full withdrawal

Material:

- Base: Sheet steel

Surface finish:

- Base: Spray-finished
- Mounting kit/telescopic slides: Zinc-plated

Colour:

- RAL 7035

Supply includes:

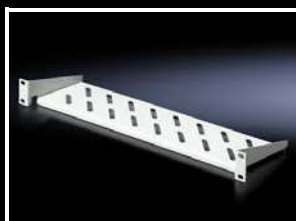
- Component shelf, vented
- Telescopic slides with mounting kit

Contact surface, width mm	409
Contact surface, depth mm	500
Distance between 482.6 mm (19") levels mm	395 - 645
Load capacity (static) N	500
Packs of	1 pc(s).
Model No.	7000.625



Interior installation

Component shelves for attachment to the 482.6 mm (19") system



Component shelf 1 U, static installation

482.6 mm (19")

for one 482.6 mm (19") mounting level

The ideal support surface for small active components such as modems or mini-hubs.

Load capacity:

- 10 kg surface load, static

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 7035

Note:

- Usable height inside the U approx. 35 mm

Component shelf depth mm	Packs of	Model No.
140	1 pc(s).	7119.140



Also required:

- Cage nuts, see page 815
- Screws, see page 737



Component shelf 2 U, static installation

482.6 mm (19")

for one 482.6 mm (19") mounting level

The ideal support surface for small active components such as modems or mini-hubs.

Load capacity:

- 25 kg surface load, static

Material:

- Sheet steel

Surface finish:

- Spray-finished

Component shelf depth mm	Colour RAL	Packs of	Model No.
250	7035	1 pc(s).	7119.250
	9005	1 pc(s).	5501.615
400	7035	1 pc(s).	7119.400
	9005	1 pc(s).	5501.625



Also required:

- Cage nuts, see page 815
- Screws, see page 737

Interior installation

Component shelves for attachment to the 482.6 mm (19") system

Component shelf, pull-out, 2 U

for one 482.6 mm (19") mounting level

For simple, front installation of wall-mounted or floor-standing enclosures with at least one 482.6 mm (19") mounting level. This complete set comprises the pre-configured variant including telescopic slides, moulded handle, flange and locking pins.

Benefits:

- Simple tool-free assembly
- Full withdrawal
- Self-locking

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 9005

Supply includes:

- Component shelf, pre-configured
- Assembly parts

Contact surface, width mm	Contact surface, depth mm	Load capacity (static) N	Packs of	Model No.
430	300	250	1 pc(s).	5501.635



Installation kit, depth-variable

For component shelves, 482.6 mm (19") installation

Depending on the distance between the two 482.6 mm (19") mounting levels, the installation kit is screw-fastened in the depth between the L-shaped 482.6 mm (19") mounting angles or mounting frame.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Distance between 482.6 mm (19") levels mm	Packs of	Model No.
550 – 850	2 pc(s).	7063.850



Interior installation

Installation kits/accessories for component shelves



TS punched section with mounting flange, 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:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Installation in enclosure depth mm	Packs of	Model No.
500	4 pc(s).	8612.050
600	4 pc(s).	8612.060
800	4 pc(s).	8612.080
1000	4 pc(s).	8612.000
1200	4 pc(s).	8612.020



Adaptor for L-shaped mounting angles

for TS

For mounting component shelves and slide rails on L-shaped mounting angles.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Packs of	Model No.
4 pc(s).	7827.300



Telescopic slides

For component shelf for frame attachment and component shelf, 482.6 mm (19") configuration

Static component shelves are easily converted to full withdrawal, by exchanging the existing assembly bolts or mounting rails (heavy-duty version) for telescopic slides.

Technical specifications:

- For installation and locking on a 25 mm pitch pattern in the enclosure depth

Material:

- Sheet steel

Surface finish:

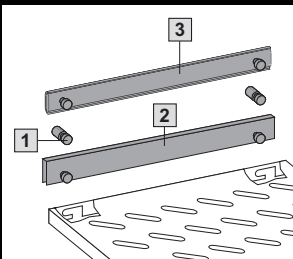
- Zinc-plated

Load capacity 50 kg

For component shelf depth mm	Packs of	Model No.
400	2 pc(s).	7061.000
500	2 pc(s).	7081.000
600	2 pc(s).	7161.000
700	2 pc(s).	7161.700

Load capacity 100 kg

For component shelf depth mm	Packs of	Model No.
400	2 pc(s).	7064.000
500	2 pc(s).	7065.000
600	2 pc(s).	7066.000
700	2 pc(s).	7066.700



- 1 Assembly bolts
- 2 Mounting rails
- 3 Telescopic slides

Interior installation

Accessories for component shelves

Cable support

Hinged, with quick-release fastener

For secure routing of connection cables from the component shelf to the clamping point. The attachment may be released on both sides thanks to the quick-release fastener.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

For enclosure depth mm	Packs of	Model No.
≤ 600	1 pc(s).	7163.500
> 600	1 pc(s).	7163.550

Note:

- Max. depth of component shelves = Enclosure depth -100 mm



Cable support

Hinged, with anti-kink device and quick-release fastener

For secure routing of connection cables from the component shelves with telescopic pull-out to the clamping point. Kink-free cable routing in the central part via mobile chain links. The attachment may be released on both sides, thanks to the quick-release fastener.

Material:

- Sheet steel, zinc-plated
- Centre part: Plastic

Supply includes:

- Assembly parts

For enclosure depth mm	Packs of	Model No.
≤ 600	1 pc(s).	7163.560
> 600	1 pc(s).	7163.565

Note:

- Max. depth of component shelves = Enclosure depth -200 mm



Handles

for pull-out component shelves

The component shelves are prepared for the attachment of handles.

Material:

- Die-cast zinc

Surface finish:

- Spray-finished

Colour:

- Silver grey

Supply includes:

- Assembly parts

Packs of	Model No.
2 pc(s).	5501.730



Fastening bolts

for slotted component shelves

For non-slip attachment of your components. The bolts are screwed into the longitudinal slots of the component shelf support surface. Consequently, they are infinitely adjustable and can be adapted to suit any appliance.

Packs of	Model No.
4 pc(s).	7115.000



LED system light – Sensationally bright



Optimum illumination

- Innovative LED technology for even more light into the very last corner
- Intelligent lighting, tailored to the geometry of the enclosure, thanks to a special optical cover with Fresnel structure
- Optical cover with two different Fresnel structures
- The cover is easily rotated – to adapt the light distribution to the current installation situation
- Enormous luminous intensity up to 1200 lumens, directed selectively into the enclosure

Simple assembly

- Fast, tool-free assembly thanks to a latching hook system on a 25 mm pitch pattern of holes; simply latch and secure
- Optional screw-fastening also available, or opt for complete flexibility with a magnetic attachment freely positionable inside the enclosure
- May be fitted horizontally and vertically with no loss of space in the enclosure; existing rails and sections can simply be covered
- Lights with motion detectors are equipped with a rotating LED board as standard, allowing the direction of light to be perfectly adapted to any installation situation

Flexible connection

- Rotating connectors support installation in the most confined spaces
- Simple through-wiring based on the plug & play system
- Variants with integral motion detectors eliminate the need for installing separate door-operated switches
- If additionally equipped with a socket, electricity will be available whenever it is needed for maintenance work
- Suitable for immediate, global use with wide-range voltage 100 – 240 V (AC) and 24 V (DC)



LED system light



Connection accessories Page 752 Enclosure systems Page 67 Compact enclosures AE Page 58

Benefits:

- Optimum illumination of the entire enclosure
- Optionally with clip, screw and magnetic attachment
- Equipment to suit every application

Material:

- Plastic
- Aluminium

Colour:

- Enclosure: RAL 7016

Light colour:

- 4000 K (neutral white)

Supply includes:

- Assembly screws

Note:

- Connection accessories should be ordered separately
- Further information on country-specific versions can be found on the Internet

Model No.			2500.310	2500.300	2500.210	2500.200
Output (lumens)			1200	1200	900	900
Length (mm)			437	437	437	437
Motion sensor			■	■	–	–
Rated operating voltage	100 – 240 V AC		■	■	■	■
	24 V DC		–	–	–	–
Equipment	Socket		■	–	■	–
	90° rotating connector		■	■	■	■
	Adjustable light direction		■	■	–	–
	Adjustable light distribution		■	■	■	■
Protection class			II (all-insulated)			
Approvals	UL		–	■	–	■
	cUL		–	■	–	■
	CCC		–	■	–	■
	ENEC		■	■	■	■
Installation type	Screw-fastening		■	■	■	■
	Clip attachment		■	■	■	■
	Magnetic attachment to surfaces (accessory)		–	■	–	■
Connection options	Infeed		3-pole	3-pole	3-pole	3-pole
	Through-wiring		3-pole	3-pole	3-pole	3-pole
	Door-operated switch (accessories)		–	–	■	■
Mounting options	Enclosures with a 25 mm pitch pattern	Screw fastening/clip	Directly on the profile	Directly on the profile	Directly on the profile	Directly on the profile
	AE	Screw-fastening	With universal bracket			




Accessories

Universal bracket	2373.000	2373.000	2373.000	2373.000
Mounting kit magnet	–	2500.480	–	2500.480
Door-operated switch	–	–	2500.460	2500.460
Door-operated switch, UL	–	–	–	2500.470

Connection accessories

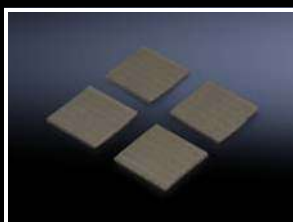
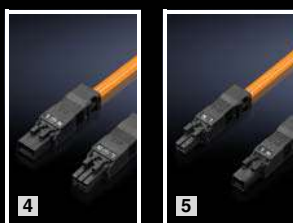
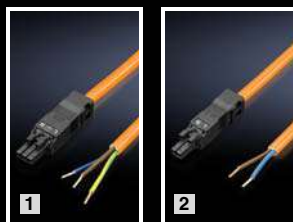
Infeed, 2-pole	–	–	–	–
Infeed, 3-pole	2500.400	2500.400	2500.400	2500.400
Infeed, 3-pole, ENEC, UL	–	2500.500	–	2500.500
Through-wiring, 2-pole	–	–	–	–
Through-wiring, 3-pole	2500.430	2500.430	2500.430	2500.430
Through-wiring, 3-pole, ENEC, UL	–	2500.530	–	2500.530

LED system light

				
Model No.		2500.220	2500.110	2500.100
Output (lumens)		900	600	400
Length (mm)		437	337	262
Motion sensor		–	–	–
Rated operating voltage	100 – 240 V AC	–	■	■
	24 V DC	■	–	–
Equipment	Socket	–	–	–
	90° rotating connector	■	–	–
	Adjustable light direction	–	–	–
	Adjustable light distribution	■	–	–
Protection class		III (SELV)	II (all-insulated)	
Approvals	UL	■	–	–
	cUL	■	–	–
	CCC	–	■	■
	ENEC	■	■	■
Installation type	Screw-fastening	■	■	■
	Clip attachment	■	■	■
	Magnetic attachment to surfaces (accessory)	■	■	■
Connection options	Infeed	2-pole	2-pole	2-pole
	Through-wiring	2-pole	2-pole	2-pole
	Door-operated switch (accessories)	■	■	■
Mounting options	Enclosures with a 25 mm pitch pattern	Screw fastening/clip	Directly on the profile	Directly on the profile
	AE	Screw-fastening	With universal bracket	
Accessories				
Universal bracket		2373.000	2373.000	2373.000
Mounting kit magnet		2500.480	2500.480	2500.480
Door-operated switch		2500.460	2500.460	2500.460
Door-operated switch, UL		2500.470	–	–
Connection accessories				
Infeed, 2-pole		2500.410	2500.420	2500.420
Infeed, 3-pole		–	–	–
Infeed, 3-pole, ENEC, UL		–	–	–
Through-wiring, 2-pole		2500.440	2500.450	2500.450
Through-wiring, 3-pole		–	–	–
Through-wiring, 3-pole, ENEC, UL		–	–	–

Interior installation

LED system light



Connection accessories

for LED system light

The following components can be used for time-saving and simple installation of the lights:



Accessories:

- Cable ties for quick assembly, see page 785

Connection cable for	ENEC	UL	Length mm	Packs of	Model No.	
					orange	black
1 Infeed, 3-pole, 100 – 240 V AC	■	■	3000	1 pc(s).	2500.500	-
	■	-	3000	5 pc(s).	2500.400	-
2 Infeed, 2-pole, 100 – 240 V AC	■	-	3000	5 pc(s).	2500.420	-
3 Infeed, 2-pole, 24 V DC	■	-	3000	5 pc(s).	-	2500.410
4 Through-wiring, 3-pole, 100 – 240 V AC	■	■	1000	1 pc(s).	2500.530	-
	■	-	1000	5 pc(s).	2500.430	-
5 Through-wiring, 2-pole, 100 – 240 V AC	■	-	1000	5 pc(s).	2500.450	-
6 Through-wiring, 2-pole, 24 V DC	■	-	1000	5 pc(s).	-	2500.440

Door-operated switch

for LED system light

Supply includes:

- Assembly parts

Connection cable	ENEC	UL	Length mm	To fit	Packs of	Model No.
						black
Connection cable	■	-	600	230 V AC/24 V DC, 1 A	1 pc(s).	2500.460
	-	■	600		1 pc(s).	2500.470

Mounting kit magnet

for LED system light

For sticking onto the rear of lights without a socket.

Packs of	Model No.
4 pc(s).	2500.480

Universal light with integral motion detector

Benefits:

- Insulated plastic housing
- Efficient compact fluorescent tube
- Simple attachment of the light to the enclosure

Material:

- Plastic

Supply includes:

- Mounting clips



Also required:

- Connection accessories, see page 755



Technical specifications	Socket	Width mm	Height mm	Depth mm	Model No.	Approvals
18 W, 110 – 240 V, 50 – 60 Hz	Earthing-pin	343	95	55	4155.110	VDE
	-	343	95	55	4155.010	VDE
	-	343	95	55	4155.510	UL

Courtesy light

without door-operated switch

Technical specifications	Socket	Width mm	Height mm	Depth mm	Model No.	Approvals
14 W, 100 – 240 V, 50/60 Hz	Earthing-pin	452	117	50	4139.140	ENEC
18 W, 100 – 240 V, 50/60 Hz	Earthing-pin	682	117	50	4139.180	ENEC
30 W, 100 – 240 V, 50/60 Hz	Earthing-pin	987	117	50	4139.300	ENEC

with door-operated switch

Technical specifications	Socket	Width mm	Height mm	Depth mm	Model No.	Approvals
14 W, 100 – 240 V, 50/60 Hz	Earthing-pin	452	117	50	4139.150	ENEC
18 W, 100 – 240 V, 50/60 Hz	Earthing-pin	682	117	50	4139.190	ENEC
30 W, 100 – 240 V, 50/60 Hz	Earthing-pin	987	117	50	4139.350	ENEC



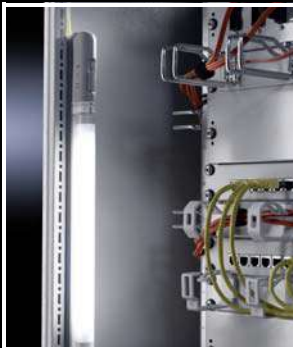
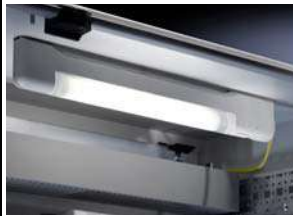
Also required:

- Connection accessories, see page 755



Interior installation

System lights



Compact light

- Slimmer: Around 50% less height and depth and therefore around 75% less volume than conventional lights
- Door-operated switch can also be connected via a 2-pole connector

Colour:

- Similar to RAL 7035

Protection category IP to IEC 60 529:

- IP 20

Supply includes:

- Compact light with clip and screw mounting kits, including assembly parts

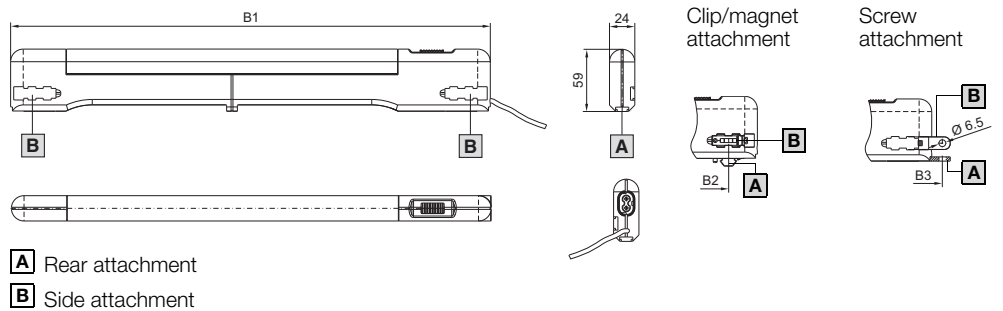


Accessories:

- Mounting kit magnet for compact light, see page 754
- Door-operated switch with connection cable, see page 755

Model No.	ENEC 24 cURus	4140.010	- 4140.210 ¹⁾	4140.020	- 4140.220 ¹⁾	4140.110	4140.120
Rated voltage		100 – 240 V ±10% at 50 – 60 Hz				24 V (DC) ±10%	
Wattage		8		14		8	14
Protection category		II (all-insulated)					
Width (B1) mm		455		705		455	705
Mounting distance (B2) mm clip/magnet		400		650		400	650
Mounting distance (B3) mm		475		725		475	725
Connection cable		3 m (open end)					
Cover colour		yellow	grey	yellow	grey	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	0.57
Light		Fluorescent lamp T5					
Operating unit		Wide-range electronic ballast				Electronic ballast	
Circuit-breakers		Integral, on/off/door-operated switch mode					
Light cover		Transparent, grooved on the inside					
Cable deflector across rear		■	-	■	-	■	■

¹⁾ Only for the North American market



Mounting kit magnet

for compact light and LED compact system light

For reliable adhesion on all sheet steel surfaces.

Packs of	Model No.
2 pc(s).	4140.000

Connection accessories

For universal light, courtesy light and compact light

The following components can be used for time-saving and simple installation of the lights:

+ Accessories:

– Cable ties for quick assembly, see page 785

Connection cable for	UL	Length mm	Packs of	Model No.	
				orange	grey
1 Power supply (with jack, without connector)	–	3000	5 pc(s).	4315.100	–
1 Power supply (with socket and strain relief, without connector)	■	3000	1 pc(s).	–	4315.150
2 Through-wiring (with socket and connector)	■	600	1 pc(s).	–	4315.450
2 Through-wiring/power supply via connection component 2507.500 (with socket and connector)	–	600	5 pc(s).	4315.400	–
	–	1000	5 pc(s).	4315.200	–
	–	4000	1 pc(s).	4315.600	–

Door-operated switch with mounting accessories	UL	Length mm	Technical specifications	Packs of	Model No.		
					orange	yellow	grey
3 With connection cable (not required for universal lights and courtesy lights with integral door-operated switch) Without connection cable	–	600	240 V, 6 A 125 V, 8 A 24 V, 6 A	1 pc(s).	4315.520	–	–
		1000	24 V (DC), 6 A	1 pc(s).	4315.320	–	–
	■	–	–	1 pc(s).	4127.010		
4 With connection cable (for compact light)	–	600	240 V, 2.5 A 125 V, 2.5 A 24 V, 2.5 A	1 pc(s).	–	4315.710	–
	■	600	24 V (DC), 2.5 A	1 pc(s).	–	–	4315.720

Also required:

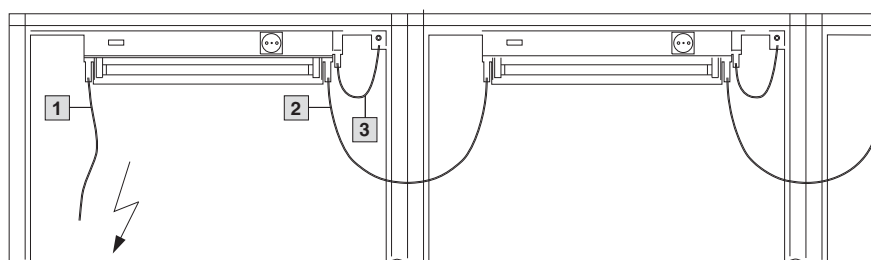
Mounting kit for installation in HP	7888.615
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Door-operated switch with toggle	UL	Technical specifications	Packs of	Model No.
5 Without connection cable, for TS enclosures with installed large swing frame. The toggle is actuated via the tubular door frame of the sheet steel door, or in the case of glazed doors, via an adaptor 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 component with circuit-breaker 10 A	Packs of	Model No.
6 Reduce assembly costs: Power is supplied rapidly and reliably to system and workstation lights via connection cables. For independently configured cables, connector 2507.200 must be used. Connection component to be snapped onto the top hat rail.	1 pc(s).	2507.500

For self-assembly	Packs of	Model No.
Sockets 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 sockets, 1 connector	5 pc(s).	2507.300
Connector for door-operated switch cable	5 pc(s).	2507.400

- 1 Connection cable for infeed
- 2 Connection cable for through-wiring/infeed
- 3 Door-operated switch with connection cable



Interior installation

System lights



LED compact system light in 24 V (DC) version

- Max. EMC compatibility
- Protected, as it operates within the safety extra-low voltage range
- Door operated switch connection supported
- Integral through-wiring
- Vertically hinged light cone

Material:

- Light body: Extruded aluminium
- Light cover: Polycarbonate (halogen-free)
- Light ends: PC-ABS

Colour:

- Similar to RAL 7035

Protection category IP to IEC 60 529:

- IP 20

Supply includes:

- LED compact system light with clip and screw mounting kits, assembly parts

Model No.	4140.810	4140.820	4140.830	4140.840
Rated voltage	24 V (DC) (±10%)			
Number of LEDs	10	20	30	40
Protection category	III (SELV)			
Width (B1) mm	230	330	430	530
Mounting distance CLIP (B2) mm	175	275	375	475
Mounting distance, screw attachment (B3) mm	250	350	450	550
Rated current A ¹⁾	0.04	0.08	0.12	0.16
Switches	Integral 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 757 or
- Door-operated switch with LED connection cable, see page 757

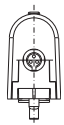
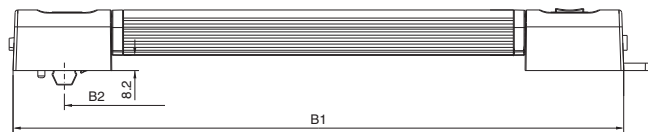
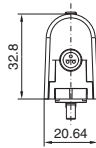
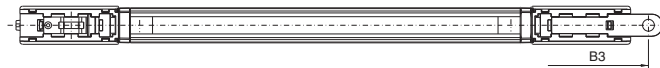
Note:

- Only intended for use in enclosures and sealed cases!
- When using on customer-supplied power packs, it is important to obtain the requisite approvals depending on the application



Accessories:

- Mounting kit magnet for LED compact system light, see page 754
- Door-operated switch with LED connection cable, see page 757
- LED connection cable, see page 757
- Adaptor power pack, see page 757

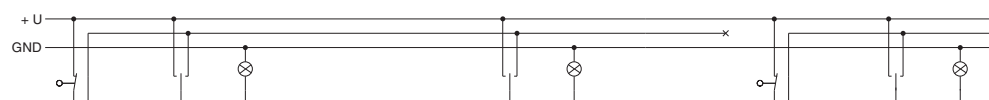
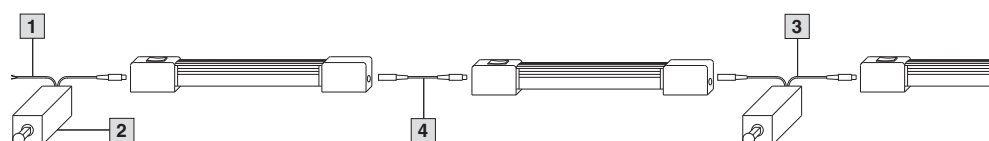


Connection accessories for LED compact system light

Connection cable		Length mm	Packs of	Model No.
1	LED connection cable	3000	1 pc(s).	4315.800
Door-operated switch		Length mm	Packs of	Model No.
2	With LED connection cable	3000	1 pc(s).	4315.810
3	With LED interconnecting cable	1000	1 pc(s).	4315.820
Interconnecting cable		Length mm	Packs of	Model No.
4	LED interconnecting cable	600	1 pc(s).	4315.830
		1000	1 pc(s).	4315.840
		3000	1 pc(s).	4315.850
Adaptor power pack		Technical specifications	Packs of	Model No.
5	Adaptor power pack	100 – 230 V/24 V (DC), 1 A	1 pc(s).	4315.860

Layout diagram for LED compact system light 24 V (DC):

- 1 Connection cable
- 2 Door-operated switch with LED connection cable (open end/cable bush)
- 3 Door-operated switch with LED interconnecting cable
- 4 LED interconnecting cable for through-wiring



Interior installation

EMC



EMC side panels

for TS

Automatic potential equalisation via assembly components, and a high level of EMC protection thanks to a special EMC seal.

Material:

- Sheet steel, 1.5 mm

Surface finish:

- Aluminium zinc coated, powder-coated on the outside

Colour:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 54

Supply includes:

- Assembly parts

For enclosures		Packs of	Model No.
Height mm	Depth mm		
2000	600	2 pc(s).	8106.750
2000	800	2 pc(s).	8108.750



EMC baying seal

for TS

For baying enclosure systems. Seal with all-round, electrically conductive sheathing.

Supply includes:

- 3 seals, length 2 m each

Cross section mm	Model No.
6.3 x 6.3	8800.690



EMC divider panel 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 rail for strain relief and EMC contacting of inserted cables.

Design:

- C rail to accommodate cable clamps
- T-head cut-outs on a 40 mm pitch pattern for cable clamping using cable ties

Benefits:

- Additional contacting on the left or right of the rail via existing holes (9 mm diameter)
- Prepared for tool-free mounting of EMC shielding brackets

Installation options:

- On the horizontal/vertical TS, SE, PC enclosure section
- May also be fitted without a retaining bracket on a mounting plate

Material:

- Extruded aluminium section

Surface finish:

- Chrome-free passivated

Supply includes:

- 1 rail
- 2 retaining brackets
- Assembly parts

For enclosure width mm	Length mm	Packs of	Model No.
600	553	1 pc(s).	2388.650
800	753	1 pc(s).	2388.850
1000	953	1 pc(s).	2388.050
1200	1153	1 pc(s).	2388.125



Also required:

- EMC shielding bracket, see page 759
- Cable clamps, see page 784



Accessories:

- Support bracket or spacer, see page 732
- Quick-assembly block, see page 733
- Angle piece, see page 733
- Earth straps, see page 762
- Earthing braids, see page 762



Possible alternative:

- C rails 30/15, see page 723



EMC shielding bracket

Quick assembly without the use of tools:

Press the EMC shielding bracket against the cable shield and clip into the rail. Diameter changes are compensated in full by the spring of the EMC shielding bracket.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

For shield diameter mm	Packs of	Model No.
3 – 10	10 pc(s).	2388.100
4 – 15	10 pc(s).	2388.150
10 – 20	10 pc(s).	2388.200
15 – 28	10 pc(s).	2388.280



EMC gland plates

For shielded cables with a maximum diameter of 20 mm.

Combined EMC/IP seal provides low-resistance contact between cable shield and gland plate.

For all 400, 500, 600 and 800 mm deep enclosures in conjunction with standard gland plates.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- 1 gland plate with T-head punching
- 1 sliding base plate
- 2 IP/EMC seals

Width mm	Packs of	Model No.
600	1 pc(s).	8800.660
800	1 pc(s).	8800.680
1000	1 pc(s).	8800.600¹⁾
1200	1 pc(s).	8800.620¹⁾

¹⁾ For one enclosure half only



Interior installation

EMC



EMC cable glands

The cable sheathing may optionally be interrupted at the contact point or removed completely inside the enclosure. The cable shield in the enclosure is retained. The supplied lock nut cuts automatically into the paint when screwed down, thus creating a conductive connection.

Protection category IP to IEC 60 529:

- IP 68

Possible alternative:

- Cable gland Hygienic Design, see page 777

Cable glands, metric

Size	Cable diameter mm	Minimum shield diameter ¹⁾ mm	Packs of	Model No.
M16	4.5 – 10	3	5 pc(s).	2843.160
M20	6 – 12	5	5 pc(s).	2843.200
M25	11 – 17	8	5 pc(s).	2843.250
M32	15 – 21	10	1 pc(s).	2843.320
M40	19 – 28	15	1 pc(s).	2843.400
M50	27 – 38	19	1 pc(s).	2843.500
M63	34 – 44	30	1 pc(s).	2843.630

¹⁾ Minimum shield diameter = cable diameter minus cable sheathing



EMC shield bus

Made of corrosion-proof steel strip, 75 mm² cross section, for cable shield contact.

Supply includes:

- Assembly parts

Rail length mm	Connections	Packs of	Model No.
375	10	1 pc(s).	2413.375
550	16	1 pc(s).	2413.550



EMC earth clamps

The clamps may be used directly on the device or operating equipment on the mounting plate for cable shield contact.

Material:

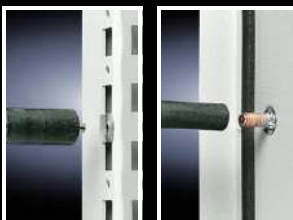
- Sheet steel

Surface finish:

- Zinc-plated

Size mm	Packs of	Model No.
4	50 pc(s).	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 earthing braids. Plastic-bound abrasive with guide pin for round system punchings. With location point for drill, grinder etc.

For	Model No.
Frame section	2414.000
Earthing bolts ¹⁾	2414.500

¹⁾ Not necessary with TS



Contact paint

Contact paint prevents the corrosion of conductive, unprotected contact points.

Contents:

- 12 ml

Packs of	Model No.
1 pc(s).	2415.000

Interior installation

For areas at risk from earthquakes

TS 8 for earthquake zone 1, 2 and 3 to Bellcore
8806.500:
W x H x D 800 x 2000 x 600 mm

With base/plinth (base/plinth components front and rear, see page 619 and base/plinth trim panel, side, see page 620), 100 mm high.

Note:

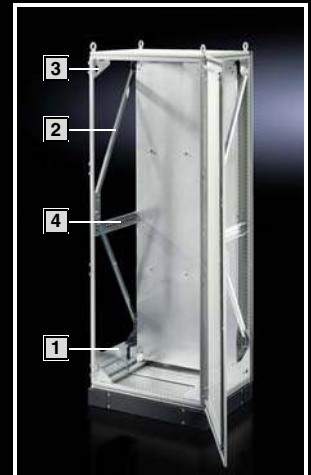
- In conjunction with a corresponding sheet steel TS base/plinth, 100 mm high, the TS 8 enclosure 8806.500 meets the requirements for earthquake zone 1, 2 and 3 to Bellcore.
- These versions have been tested and meet the requirements to Telcordia GR 63-CORE. They should be seen as a comparative variable to the customer's own plant, since empty enclosures cannot be certified.
- To comply with earthquake zone 4 to Bellcore, the TS 8 enclosure 8806.500 can be retrofitted with an earthquake kit together with an earthquake base/plinth.

TS 8 for earthquake zone 4 to Bellcore
8806.500:
W x H x D 800 x 2000 x 600 mm

Fitted with:

- Earthquake kit and
- Earthquake base/plinth, see page 761

(Photo shows TS 8 for earthquake zone 4 to Bellcore)



Earthquake kit

Material:

- Sheet steel

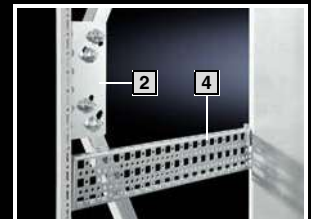
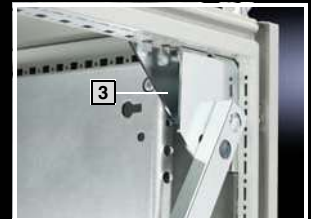
Surface finish:

- Zinc-plated

Supply includes:

- 1** 2 side reinforcements, bottom
- 2** 2 bracing struts each, sides
- 3** 8 gusset plates
- 4** Mounting plate attachment and reinforcement, including assembly parts

For enclosures W x H x D mm	Packs of	Model No.
800 x 2000 x 600	1 pc(s).	8613.860



Earthquake base/plinth

Height 100 mm

Material:

- Corner pieces: Sheet steel, 5 mm
- Trim panels: Sheet steel, 2 mm

Surface finish:

- Powder-coated

Colour:

- RAL 7022

Supply includes:

- 1 pc(s). =
 - 4 corner pieces,
 - 2 depth stays,
 - 1 trim panel each front and rear
- Fully assembled.

For enclosures W x D mm	Packs of	Model No.
800 x 600	1 pc(s).	8601.860



Interior installation

Earthing



Earth straps

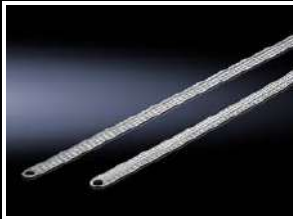
For configuring a reliable earthing connection with perfect contact

- With ring terminals in M6 and M8 to match the earthing screws
- Length-optimised and ready to install

Enclosure	Connection option		
	Door/cover	Enclosure	Mounting plate
KL	M6	M6	M8
EB/BG	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 mm	Packs of	Model No.
M8 – M8	4	170	5 pc(s).	2564.000
M8 – M8	16	170	5 pc(s).	2565.000
M8 – M8	25	170	5 pc(s).	2566.000
M6 – M6	10	200	5 pc(s).	2565.100
M8 – M8	4	300	5 pc(s).	2567.000
M6 – M8	10	300	5 pc(s).	2565.110
M8 – M8	10	300	5 pc(s).	2565.120
M8 – M8	16	300	5 pc(s).	2568.000
M8 – M8	25	300	5 pc(s).	2569.000



Earthing braid

Tin-plated copper, in various lengths and cross-sections with press-fitted contact rings. Earthing braids counteract the current displacement effect at high frequencies, whilst at the same time offering highly flexible connection opportunities.

For	Cross-section mm ²	Length mm	Packs of	Model No.
M6	10	200	10 pc(s).	2412.210
M8	16	200	10 pc(s).	2412.216
M8	25	200	10 pc(s).	2412.225
M6	10	300	10 pc(s).	2412.310
M8	16	300	10 pc(s).	2412.316
M8	25	300	10 pc(s).	2412.325



Assembly parts

for system punchings

For fastening the earth straps and earthing 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 pc(s).	2570.000
M8	10 pc(s).	2559.000



Also required:

- For mounting on the horizontal TS, SE enclosure section: Cage nut, see page 736



Assembly parts

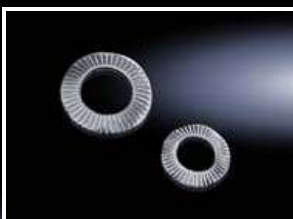
for gland plates

For fastening the earth straps and earthing braids to:

- Gland plates

Fast assembly thanks to self-tapping screws

Size	Packs of	Model No.
M8	10 pc(s).	2570.200



Contact washers

Serrated contact washers facilitate secure PE conductor connection. As a result, there is no need to manually strip paint in the connection area.

Size	Packs of	Model No.
M5	100 pc(s).	2343.000
M6	100 pc(s).	2334.000
M8	100 pc(s).	2335.000

Interior installation

Earthing

Earthing plate

- For installation in
- Comfort Panel
 - Optipanel
 - TS
 - SE
 - PC

One earthing cable can be screw-fastened to the threaded bolt and connected to up to 8 components with earth straps via 6.3 mm flat-pin connectors.

Packs of	Model No.
1 pc(s).	2570.500

- Supply includes:**
- Assembly parts



Central earthing point

- For connecting
- Earth straps
 - Earthing braids
- to the vertical and horizontal enclosure profile. The connection bracket is connected to the enclosure frame with 2 screws and is securely contacted. Earth connection is carried out via the threaded bolt M8 x 20 mm.

- Material:**
- Sheet steel

- Surface finish:**
- Zinc-plated

Packs of	Model No.
1 pc(s).	7829.200

- Supply includes:**
- 1 connection bracket
 - 2 assembly screws for mounting on the enclosure section
 - 2 serrated washers
 - 1 nut M8
 - 1 contact lock washer M8
 - 1 washer



Potential equalisation star

for 8 mm earthing bolt

The earthing connector is used for simple potential equalisation on an 8 mm earthing bolt, or in conjunction with central earthing point 7829.200. Up to five flat-pin connectors (6.3 mm) may be contacted on one earthing point.

Packs of	Model No.
10 pc(s).	7548.210

- Supply includes:**
- 10 earthing connectors
 - Assembly parts



Earthing extension kits

for TS IT

To DIN EN 60 950/VDE 0805, \varnothing 4 mm², length 300 mm.

For system-compatible earthing of all housing parts on the housing frame. The earth conductors are pre-assembled ready for connection with connectors.

- Supply includes:**
- 8 earth straps, UL style 1015 AWG 12
 - Central earthing point and assembly parts

- Approvals:**
- UL

Packs of	Model No.
1 pc(s).	7829.150



Interior installation

Earthing



Complete earthing kit

for TE

To DIN EN 60 950/VDE 0805, Ø 4 mm². For system-compatible earthing of all housing parts on the housing frame. The earth conductors are pre-assembled ready for connection with connectors and cut to the correct length.

Supply includes:

- 4 earth straps, 300 mm
- 4 earth straps, 350 mm
- Assembly parts

Packs of	Model No.
1 pc(s).	7000.675



Earthing kit

for KL

Comprising all the screws, nuts, contact washers and earthing strip needed to earth the cover; length 250 mm, cross-section 4 mm².

Packs of	Model No.
5 pc(s).	2570.100



PE busbar

699 mm long PE busbar with pre-fitted 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:

- Cable retainer, see page 735



Earth rail, horizontal

for TS, TS IT, SE

Supply includes:

- Earth rail made from E-Cu 57 to DIN EN 12 163, DIN EN 13 601, 15 x 5 mm
- 20 connection points with M5 screws
- 2 earth connections 25 mm²
- 2 isolators
- Assembly parts

For enclosure width mm	Width mm	Height mm	Length mm	Packs of	Model No.
600 800	15	5	450	1 pc(s).	7113.000

Interior installation

Earthing

Earth rail, vertical

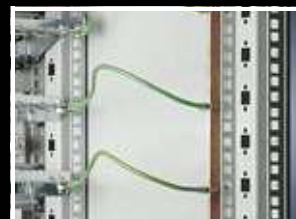
for TS

Easily fitted to the 25 mm DIN pitch pattern of distributors or to the 482.6 mm (19") mounting angles. The supplied earth conductors facilitate star earthing of the cable clamp straps in the patch panels. The earth terminals are fully adjustable. Current carrying capacity of rail approx. 200 A.

Supply includes:

- Earth rail made from E-Cu 57 to DIN EN 12 163, DIN EN 13 601, 15 x 5 mm
- 16 conductor connection clamps 2.5 – 16 mm²
- 15 earthing leads 6 mm², L = 500 mm
- Assembly parts

For enclosure height mm	Length mm	Packs of	Model No.
800	545	1 pc(s).	7541.000
1000	745	1 pc(s).	7542.000
1200	945	1 pc(s).	7543.000
1400	1145	1 pc(s).	7544.000
1600	1345	1 pc(s).	7545.000
1800	1545	1 pc(s).	7546.000
2000	1745	1 pc(s).	7547.000
2200	1945	1 pc(s).	7548.000



Extension kit

for earth rail, vertical

For system-compatible expansion of the star earthing on the vertical potential equalisation rail.

Supply includes:

- 15 earthing leads 6 mm², L = 500 mm
- Preassembled, with ring terminal and wire end ferrule
- Earth terminals 2.5 – 16 mm²
- Assembly parts

Packs of	Model No.
10 pc(s).	7549.000



ESD connection point

Dangerously high potential differences can occur during maintenance or conversion work on the enclosure. To protect sensitive electronic components, this standardised connection point (push-button) provides potential equalisation. The connection point is directly conductively connected to the enclosure frame via two screws.

Packs of	Model No.
1 pc(s).	7752.950

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts



Interior installation

Earthing



E-Cu busbars

with integral holes

Suitable for

- Direct installation in enclosures
- Busbar supports
 - 9340.000/.010, see page 266
 - 9340.004, see page 266
 - 3052.000, see page 352
 - 3073.000, see page 352
- PE/PEN combinations in conjunction with PE/PEN combination angles, see page 767 and baying bracket E-Cu, see page 767

Size 30 x 5 mm (hole Ø 11 mm)

For enclosure width mm	Length mm	Packs of	Model No.	Page
400	365	2 pc(s).	9661.345	
600	565	2 pc(s).	9661.365	
800	765	2 pc(s).	9661.385	
1000	965	2 pc(s).	9661.305	
1200	1165	2 pc(s).	9661.325	

Accessories

Baying bracket E-Cu	95	4 pc(s).	9661.355	767
PE/PEN combination angle	–	4 pc(s).	9661.235	767

Size 30 x 10 mm (hole Ø 11 mm)

For enclosure width mm	Length mm	Packs of	Model No.	Page
400	365	2 pc(s).	9661.340	
600	565	2 pc(s).	9661.360	
800	765	2 pc(s).	9661.380	
1000	965	2 pc(s).	9661.300	
1200	1165	2 pc(s).	9661.320	

Accessories

Baying bracket E-Cu	95	4 pc(s).	9661.350	767
PE/PEN combination angle	–	4 pc(s).	9661.230	767

Size 40 x 10 mm (hole Ø 14 mm)

For enclosure width mm	Length mm	Packs of	Model No.	Page
400	392	2 pc(s).	9661.040	
600	592	2 pc(s).	9661.060	
800	792	2 pc(s).	9661.080	
1000	992	2 pc(s).	9661.000	
1200	1192	2 pc(s).	9661.020	

Accessories

Baying bracket E-Cu	88	4 pc(s).	9661.050	767
PE/PEN combination angles for use with Form 2-4	–	4 pc(s).	9661.240	767
PE/PEN combination angles for other applications	–	4 pc(s).	9661.200	767

Size 80 x 10 mm (hole Ø 14 mm)

For enclosure width mm	Length mm	Packs of	Model No.	Page
400	392	2 pc(s).	9661.140	
600	592	2 pc(s).	9661.160	
800	792	2 pc(s).	9661.180	
1000	992	2 pc(s).	9661.100	
1200	1192	2 pc(s).	9661.120	

Accessories

Baying bracket E-Cu	88	4 pc(s).	9661.150	767
PE/PEN combination angles for use with Form 2-4	–	4 pc(s).	9661.240	767
PE/PEN combination angles for other applications	–	4 pc(s).	9661.200	767

Inserted screw nuts M12

Self-holding nuts with knurled ring for busbars E-Cu.

Hole diameter: 14.5 mm

Packs of	Model No.
30 pc(s).	3591.060



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 to IEC 61 439-1.

The pre-assembled combination angles, baying brackets and busbars customised to match the enclosure width ensure time-saving assembly and reduced costs.

Material:

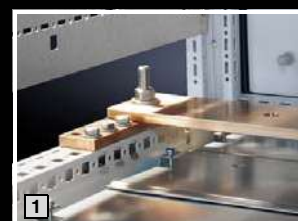
- E-Cu

Supply includes:

- Assembly parts

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		Size 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
40 x 10 and	■	–	40 x 10	4 pc(s).	9661.240
80 x 10	–	■	40 x 10	4 pc(s).	9661.200

Baying bracket E-Cu

For busbars mm	Length mm	Packs of	Model No.
30 x 5	95	4 pc(s).	9661.355
30 x 10	95	4 pc(s).	9661.350
40 x 10	88	4 pc(s).	9661.050
80 x 10	88	4 pc(s).	9661.150



Cable management

Cable entry



Cable entry plates

for

- Cable entry grommets
 - Connector grommets
- instead of segments of the standard divided gland plates

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

For installation in TS, SE and PC enclosures

Enclosure width mm	Cut-outs per plate	Packs of	Model No.
600	5	2 pc(s).	8800.060
800	8	2 pc(s).	8800.080
1000	4	4 pc(s).	8800.100
1200	6	4 pc(s).	8800.120

For installation in CM enclosures and TP TopConsole system

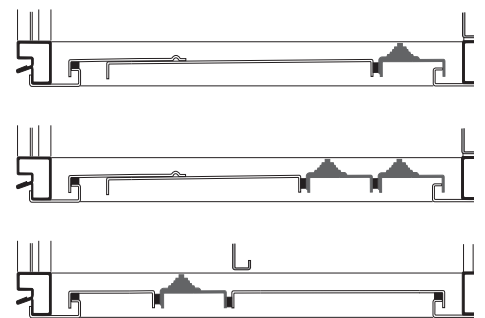
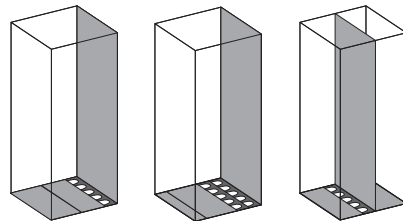
Enclosure width mm	Cut-outs per plate	Packs of	Model No.
600	5	1 pc(s).	5001.226
800	8	1 pc(s).	5001.227
1000	4	1 pc(s).	5001.228
1200	6	1 pc(s).	5001.229
1600	8	1 pc(s).	5001.237

+ **Accessories:**

- Cable entry grommets, see page 769

Three examples from a wide range of possibilities

The diagrams show three TS examples for the positioning of cable entry plates instead of segments of the three-piece gland plates supplied as standard. This facilitates positioning to fit the mounting plate. Thanks to the enclosure symmetry, where dimensions permit, cable entry plates may also be inserted in the enclosure depth, right and left, analogous to the gland plates.



Cable management

Cable entry

Cable entry grommets

In conjunction with the cable entry plate, supports 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 if installed correctly

Cables 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 if installed correctly

Packs of	Model No.
10 pc(s).	4311.000



Section for cable entry, centre for TS, SE, CM, TP

For top-mounting on gland plates. A superior alternative to the foam rubber cable clamp strip, thanks to:

- Easier mounting
- Full-surface support
- High level of sealing of cables inserted into the enclosure

Material:

- Extruded aluminium section
- Seal: PU foam
- Cross-section: 30 x 25 mm

Protection category IP to IEC 60 529:

- IP 55 if installed correctly

Supply includes:

- Plug-in sections, incl. foam rubber clamp strips

Note:

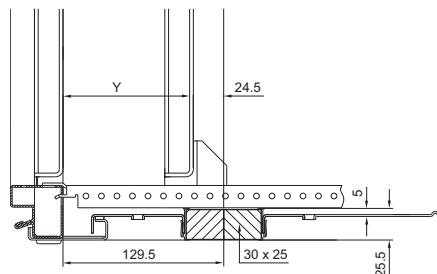
- 2 pc(s). are sufficient for one base opening up to an enclosure width of 800 mm
- From an enclosure width of 1000 mm, two base openings are provided. 4 packs per enclosure may be fitted.

For enclosure width mm	Packs of	Model No.
600	2 pc(s).	8802.060
800	2 pc(s).	8802.080
1000	4 pc(s).	8802.100
1200	4 pc(s).	8802.120
1600	4 pc(s).	8802.160



Accessories:

- Cable clamp rails (right angle section), see page 783
- C rail 30/15, see page 723



Y = Mounting plate depth-adjustable on a 25 mm pitch pattern (final pitch 30 mm)



Cable management

Cable entry



Section for cable entry, rear for TS, SE, CM, TP

Unlike the section for cable entry, centre, the rear section is mounted directly onto the base opening. In this way, when installing the mounting plate in the rearmost position (TS) or with CM, the cables may be routed directly on a cable clamping rail with no large radii. In conjunction with the cable clamp rail, optimum adjustment between the cable entry and mounting plate can be achieved.

Material:

- Extruded aluminium section
- Seal: PU foam
- Cross-section: 30 x 25 mm

Protection category IP to IEC 60 529:

- IP 55 if installed correctly

Supply includes:

- Plug-in sections, incl. foam rubber clamp strips

Note:

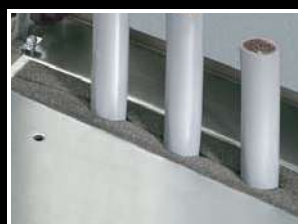
- 2 pc(s). are sufficient for one base opening up to an enclosure width of 800 mm
- From an enclosure width of 1000 mm, two base openings are provided. 4 packs per enclosure may be fitted.

For enclosure width mm	Packs of	Model No.
600	2 pc(s).	8802.065
800	2 pc(s).	8802.085
1000	4 pc(s).	8802.105
1200	4 pc(s).	8802.125
1600	4 pc(s).	8802.165



Accessories:

- Cable clamp rail, see page 783



Foam rubber cable clamp strip

For sealing the cable entry between the gland plates. Particularly suitable for identical cable cross-sections.

Material:

- PU foam
- Cross-section: 30 x 30 mm

Protection category IP to IEC 60 529:

- IP 55 if installed correctly

Packs of	Model No.
3 m	2573.000



EMC gland plates

see page 759

Cable management

Gland plates

Plastic cable gland plates

With metric knockouts

With pre-punched holes for cable glands. Used for sealing standard gland plates.

Temperature range:

– Suitable for use from -40°C...+70°C

Colour:

– RAL 7035

Protection category IP to IEC 60 529:

– IP 55 if installed correctly

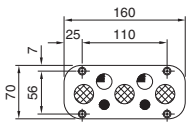
Note:

– The applicable size may be taken from the relevant product ordering page

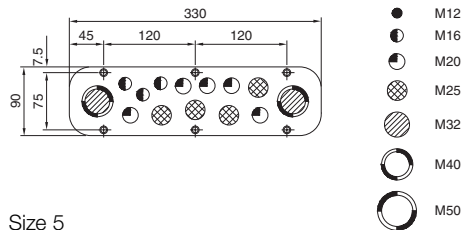
Size	Packs of	Model No.
1	10 pc(s).	2560.010
3	10 pc(s).	2561.010
4	5 pc(s).	2562.010
5	5 pc(s).	2563.010



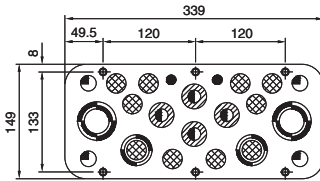
Size 1



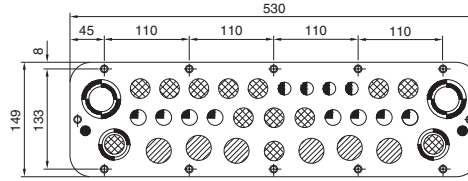
Size 3



Size 4



Size 5



Plastic cable gland plates

With PG knockouts

With pre-punched PG holes for cable glands. Used for sealing standard gland plates.

Temperature range:

– Suitable for use from -40°C...+70°C

Material:

– ABS

Colour:

– RAL 7035

Protection category IP to IEC 60 529:

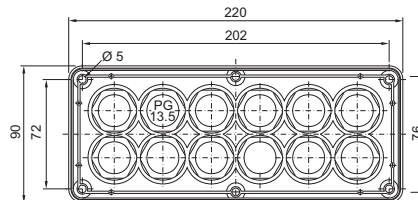
– IP 55 if installed correctly

Note:

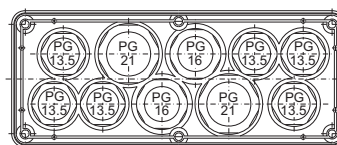
– The applicable size may be taken from the relevant product ordering page

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



Cable management

Gland plates



Plastic gland plates

with membranes

Simply pierce the plastic with a sharp object, and pull through the cable.

Material:

– Plastic to UL 94-V0

Colour:

– Similar to RAL 7035

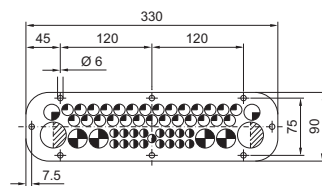
Protection category IP to IEC 60 529:

– IP 65 with careful cable entry

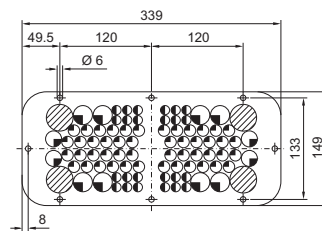
Note:

– The applicable size may be taken from the relevant product ordering page

Size 3



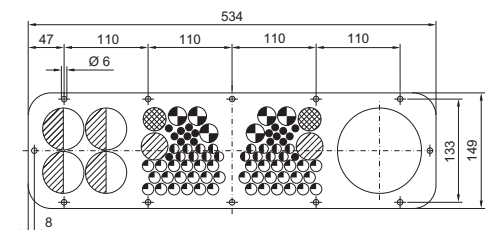
Size 4



Size	Packs of	Model No.
3	1 pc(s).	2561.500
4	1 pc(s).	2562.500
5	1 pc(s).	2563.500

	Diameter mm	No. 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 5



Cable management

Gland plates

Metal gland plates

with metric knockouts

Simply knock out the holes for the cable glands using a screwdriver.

Material:

– Sheet steel

Colour:

– RAL 7035

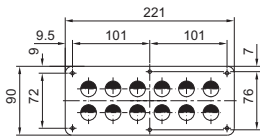
Protection category IP to IEC 60 529:

– IP 66 when mounting in the usual position at the bottom

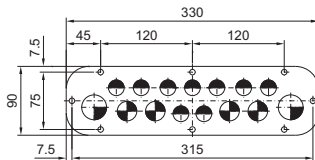
Note:

– The applicable size may be taken from the relevant product ordering page

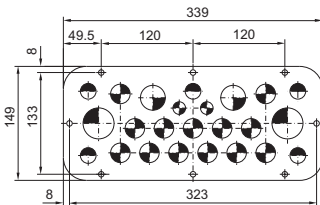
Size 2



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

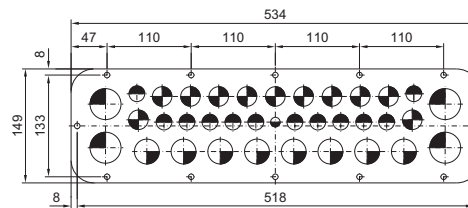
Diameter						Model No.
M12	M16	M20	M25	M32	M40	
–	–	12	–	–	–	1581.100
–	–	9	4	2	–	2561.100
–	2	5	13	2	2	2562.100
1	–	12	11	8	4	2563.100

Accessories:

– Cable glands made from polyamide or brass, see page 776

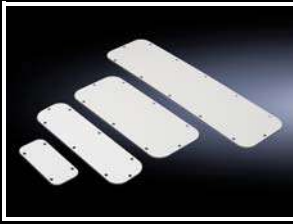


Size 5



Cable management

Gland plates



Metal gland plates

As spare/replacement part for the standard gland plates supplied loose.

Material:

– Sheet steel

Colour:

– RAL 7035

Protection category IP to IEC 60 529:

– IP 66 when mounting in the usual position at the bottom

Note:

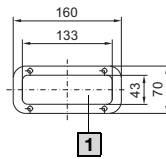
– The applicable size may be taken from the relevant product ordering page

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

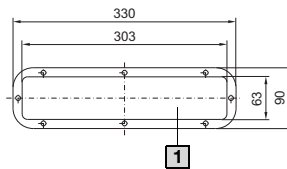
+ **Accessories:**

– Cable glands made from polyamide or brass, see page 776

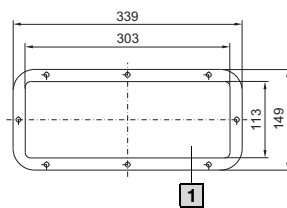
2560.400



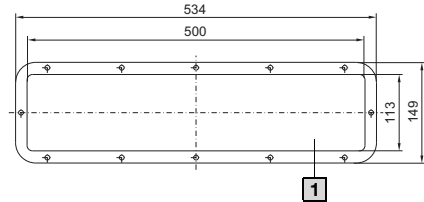
2561.400



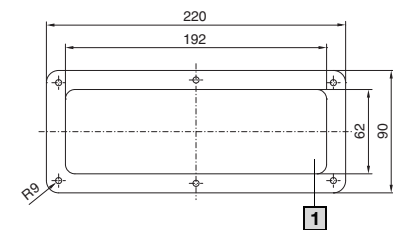
2562.400



2563.150



1158.500



1 Area available for population



Gland plate

for metric cable glands, for EL

Folded gland plate with foamed-in seal and pre-punched, knock-out holes for metric cable glands M12, M20, M25, M32, M40.

Material:

– Sheet steel, 1.5 mm

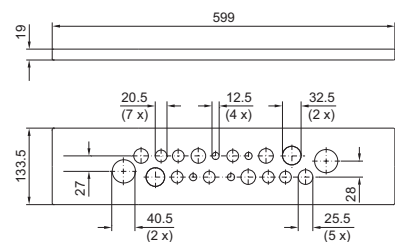
Colour:

– RAL 7035

Protection category IP to IEC 60 529:

– IP 55

Width mm	Depth mm	Cable entry (quantity x diameter)	Packs of	Model No.
599	133.5	4 x M12 7 x M20 5 x M25 2 x M32 2 x M40	1 pc(s).	7705.235



Cable management

Gland plates

Gland plate

with brush insert, for EL

Folded gland plate with foamed-in seal and plastic brush inserts for simple cable entry.

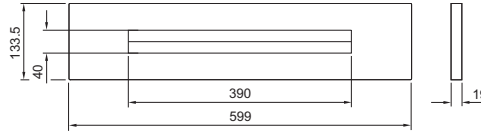
Material:

- Sheet steel, 1.5 mm

Colour:

- RAL 7035

Packs of	Model No.
1 pc(s).	7705.035



Brush strip

For individual installation of enclosure panels, gland plates and panels. Cut-outs for cable routing at any position in the side panel, rear panel, doors, roof and base plate may be finished off attractively by simply attaching the brush strip.

Packs of	Model No.
2 m	7072.200

Technical specifications:

- For metal 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 installation of enclosure panels, gland plates and panels. Cut-outs for cable routing at any position in the side panel, rear panel, doors, roof and base plate. These special brush strips may be used to create airtight entries for cable sections and conductors. The brush strips arranged in an offset configuration ensure good sealing from the routed cables even with large quantities of cables. In this way, unwanted flow losses may be reduced to a minimum.

Packs of	Model No.
2 x 1 m	7825.375

Technical specifications:

- For metal thickness: 1.5 – 2 mm
- Bristle length: 58 mm
- Plastic sheathing: 14 mm
- Snap-on surface: 11.5 mm
- Cut-out width: 88 – 90 mm

Material:

- Plastic

Supply includes:

- 1 brush strip, right-hand version
- 1 brush strip, left-hand version



Cable management

Cable gland



Cable gland, brass

Benefits:

- Because the gland and lock nut are sold together in a single pack, this saves additional ordering and storage
- Clamping membranes ensure even tightening and strain relief, which in turn protects the cables

Material:

- Brass
- Seal: TPE/NBR

Surface finish:

- Nickel-plated

Protection category IP to IEC 60 529:

- IP 68 (1 bar, 30 min.)

Approvals:

- VDE

Size	Packs of	Model No.
M12 x 1.5	15 pc(s).	2411.801
M16 x 1.5	15 pc(s).	2411.811
M20 x 1.5	10 pc(s).	2411.821
M25 x 1.5	10 pc(s).	2411.831
M32 x 1.5	5 pc(s).	2411.841
M40 x 1.5	4 pc(s).	2411.851
M50 x 1.5	2 pc(s).	2411.861
M63 x 1.5	1 pc(s).	2411.871

 **Possible alternative:**

- Cable gland Hygienic Design, see page 777



Cable gland, polyamide

Benefits:

- Because the gland and lock nut are sold together in a single pack, this saves additional ordering and storage
- Clamping membranes ensure even tightening and strain relief, which in turn protects the cables

Material:

- Polyamide 6
- Seal: Neoprene

Colour:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 68 (1 bar, 30 min.)

Approvals:

- VDE

Size	Packs of	Model No.
M12 x 1.5	50 pc(s).	2411.601
M16 x 1.5	50 pc(s).	2411.611
M20 x 1.5	50 pc(s).	2411.621
M25 x 1.5	25 pc(s).	2411.631
M32 x 1.5	15 pc(s).	2411.641
M40 x 1.5	5 pc(s).	2411.651
M50 x 1.5	5 pc(s).	2411.661
M63 x 1.5	3 pc(s).	2411.671

Cable management

Cable gland

HD cable gland

Applications:

- Manufacturing and packaging of foodstuffs etc.
- Clean room technology (e.g. pharmaceuticals)
- Biotechnology
- Chemical industry

Benefits:

- Smooth, solid exterior surfaces effectively prevent the depositing of harmful micro-organisms
- Much easier, 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:

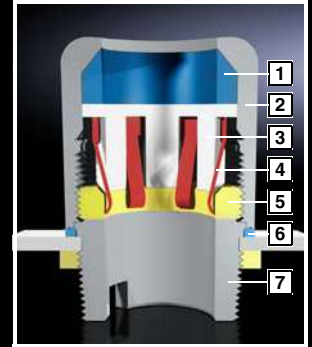
- IP 69K

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

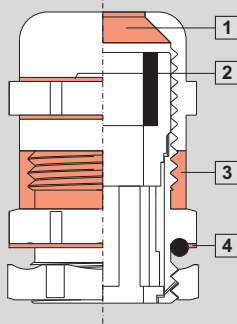
Size	Cable diameter mm	Packs of	Model No.
M16 x 1.5	5 – 10	5 pc(s).	2410.110
M20 x 1.5	6 – 12	5 pc(s).	2410.120
M25 x 1.5	12 – 17	5 pc(s).	2410.130



Why use hygienic cable glands?

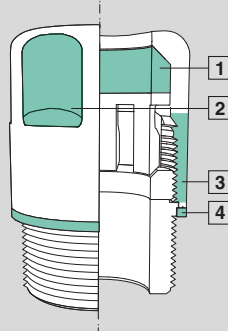
Critical points with conventional solutions

- 1 Cable entry in front of seal
- 2 No minimum radii on the hexagon
- 3 External threads
- 4 Gap caused by O-ring on the enclosure surface



Hygienic design features

- 1 Seal directly at the cable entry
- 2 Compliance with minimum radii on the hexagon
- 3 No external threads
- 4 Flush termination between the cap nut and the enclosure



- 1 Seal
- 2 Cap nut
- 3 Gripper jaws
- 4 Shield spring (EMC version only)
- 5 Clamping ring
- 6 Enclosure seal
- 7 Base with locator for assembly tool

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

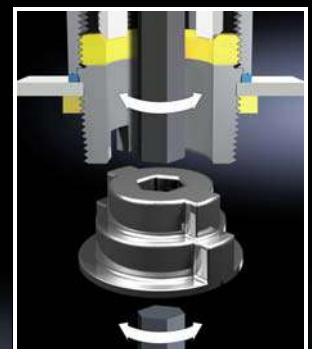
for HD cable gland

For attaching HD cable glands in an internal thread or using lock nuts. This can be achieved either from the inside or from the outside using an Allen key.

Supply includes:

- 1 pc(s). = Adaptor for sizes from M12 – M25

Packs of	Model No.
1 pc(s).	2410.290



Cable management

Cable gland



Connector gland

for connector cut-outs (24-pole)

For the entry of 2 pre-assembled cables in the connector cut-out, without dismantling the connector.

Cable diameter: 8 – 36 mm

Material:

- Housing: Plastic
- Clamps: Sheet steel

Surface finish:

- Clamps: Zinc-plated

Supply includes:

- 1 pc(s). =
- 2 half-shells, including seals, with fastening clamp

Packs of	Model No.
1 pc(s).	2400.000



Cable gland

for IW worktops

To fit drilled holes \varnothing 60 mm. For the entry of cables with pre-assembled connectors, the rotating flap and cover are easily removed.

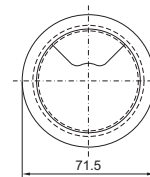
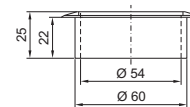
Material:

- Plastic

Colour:

- RAL 7035

Packs of	Model No.
1 pc(s).	6902.770



Edge protection

For covering sharp edges of cut-outs. Provides protection from injuries and prevents damage to inserted cables. The edge protector is suitable for material thicknesses of approx. 1.0 – 2.0 mm, and may be cut to length individually.

Material:

- Plastic PVC

Colour:

- Black

Packs of	Model No.
10 m	7072.100

Cable management

Cable gland



The connector gland proves that sometimes “less is more”: significantly faster installation, a flexible sealing system for different cable diameters, and simple cable entry with pre-assembled cables. Low installation costs, a high degree of protection and flexible cable management – added value guaranteed with the latest generation of cable entry solutions from Rittal.

Benefits:

- Cable diameters 4 – 16 mm
- Simple cable entry for pre-assembled cables
- Individual cables can be added or replaced without dismantling the sealing frame
- Sealing modules remain safely attached to their cables

Sealing frame

For pre-assembled cables with connectors.

Mounting over 24-pole or 16-pole connector cut-outs in:

- Module plates for TS divider panels
- Metal gland plates

Material:

- Frame: Polyamide
- Flat seal: CR

Protection category IP to IEC 60 529:

- IP 64

NEMA protection category:

- NEMA 12

Supply includes:

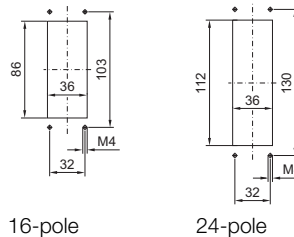
- Assembly parts

For modules 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 649



16-pole

24-pole



Sealing modules

For sealing cables and lines in conjunction with a sealing frame. 20 x 20 mm and 40 x 40 mm sealing modules may be combined.

Material:

- Hard shell: Polyamide
- Seal: TPE 2

Protection category IP to IEC 60 529:

- IP 64

NEMA protection category:

- NEMA 12

Sealing modules 20 x 20 mm

Sealing range	Packs of	Model No.
4 – 6 mm	10 pc(s).	2400.920
6 – 9 mm	10 pc(s).	2400.930
solid	10 pc(s).	2400.970

Sealing modules 40 x 40 mm

Sealing range	Packs of	Model No.
9 – 12 mm	10 pc(s).	2400.940
12 – 16 mm	10 pc(s).	2400.950
solid	10 pc(s).	2400.960



Cable management

Cable gland



Connector gland, small

For pre-assembled cables with connectors.

- For use with material thickness of up to 4 mm
- Strain relief of the pre-assembled cables can be achieved with cable ties.

Material:

- Plastic

Colour:

- RAL 9005

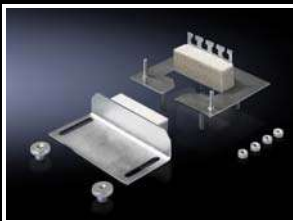
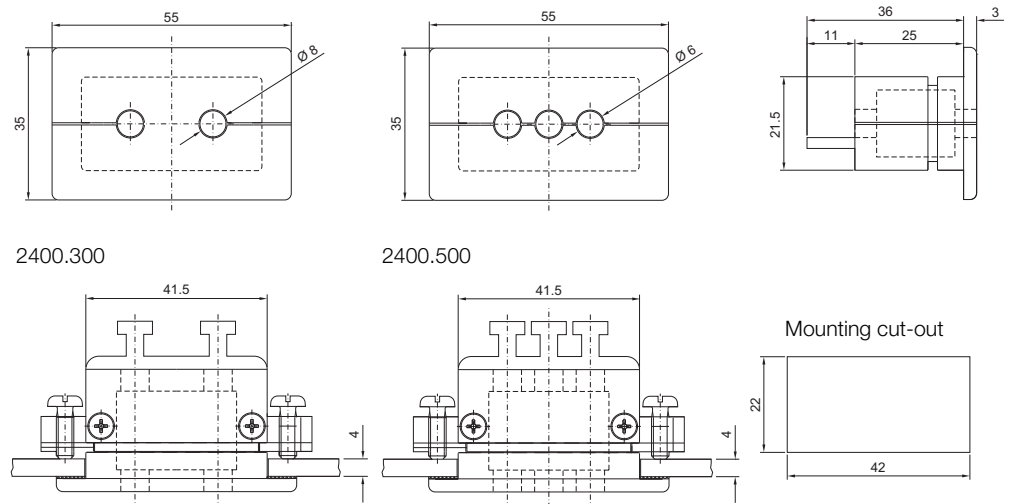
Protection category IP to IEC 60 529:

- IP 65 if installed correctly

Supply includes:

- Assembly parts

To fit	Packs of	Model No.
2 cables Ø 6 – 8 mm	1 pc(s).	2400.300
3 cables Ø 4 – 6 mm	5 pc(s).	2400.500



Cable gland module

for support arm connection Ø 130 mm

Use of the mounting cut-out for support arm connection Ø 130 mm, round, with enclosures mounted on the wall, for sealed cable entry. May also be mounted retrospectively with the cables already inserted. Fitted with T-heads for cable clamping. Particularly well-suited to cables with identical cross-sections.

Material:

- Sheet steel

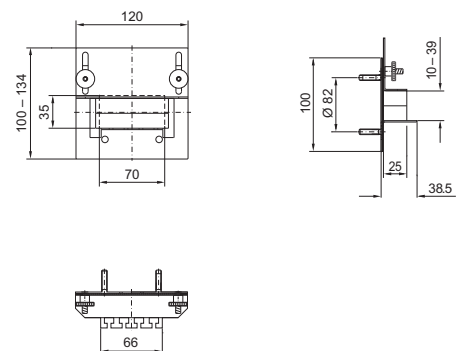
Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Packs of	Model No.
1 pc(s).	6052.500



Stepped collar

for wall thicknesses from 1.5 to 4.5 mm

For cable entry, simply cut off at the required level to match the cable diameter.

Material:

- Plastic to UL 94-HB

Protection category IP to IEC 60 529:

- IP 54 with careful cable entry

For hole	Sealing range mm	Packs of	Model No.
M20	5 – 16	100 pc(s).	2899.200
M25	5 – 21	50 pc(s).	2899.250
M32	13 – 26.5	25 pc(s).	2899.320
M40	13 – 34	20 pc(s).	2899.400

Cable management

Cable duct

for vertical TS section

For direct mounting on the vertical enclosure section.

Width 50 mm,

For mounting on a vertical enclosure section in the area of the side panel.

Width 100 mm,

For mounting on two bayed enclosure sections in the baying area. Baying brackets and baying clamps which have already been fitted can be covered over with the cable duct. The nominal break points of the bars are also designed for combination with the cable ducts for mounting plates; in addition a further nominal break at the level of the mounting plate enables direct insertion into the cable duct. The cable duct fastening points are co-ordinated with the TS system hole pattern; time-consuming drilling work, as in the case of DIN ducts, is eliminated.

Width mm	Height mm	Packs of	Model No.
50	1600	8 pc(s).	8800.570
50	1800	8 pc(s).	8800.520
100	1600	4 pc(s).	8800.540
100	1800	4 pc(s).	8800.510

Technical specifications:

- Depth: 80 mm
- Length: 1600 mm (for enclosure height 1800 mm)
1800 mm (for enclosure height 2000 mm),
may 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 +60°C

Colour:

- Similar to RAL 7030

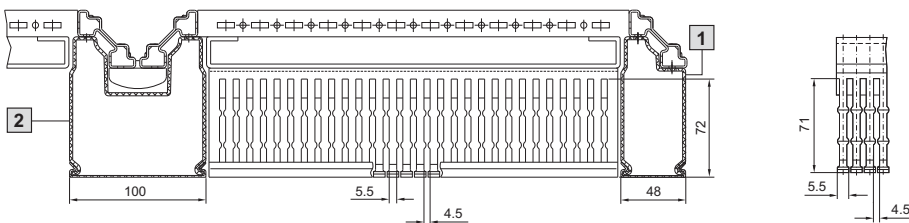
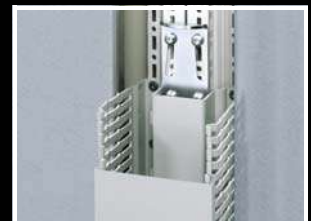
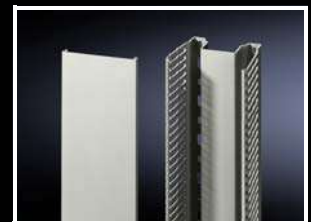
Supply includes:

- 1 pc(s). =
1 cable duct with cover



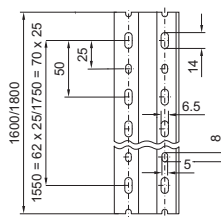
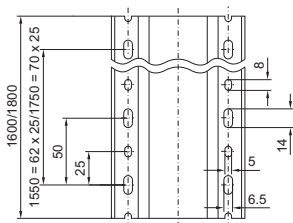
Accessories:

- Aluminium rivet for attachment, see page 782

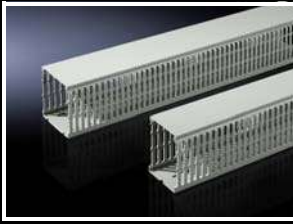


1 8800.570/8800.520

2 8800.540/8800.510



Cable management



Cable duct

for mounting plate

- To fit the cable ducts for vertical TS sections
- 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

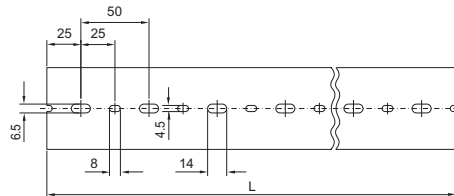
Technical specifications:

- Depth: 80 mm
- Length: 2000 mm, may be cut to length
- Bar width: 5.5 mm
- Slot width: 4.5 mm

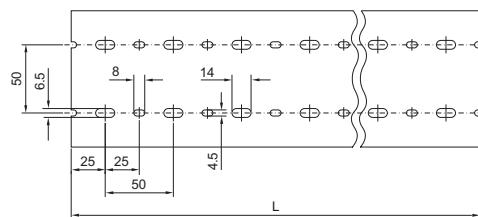
Material:

- Hard PVC
- Flame-resistant, self-extinguishing
- Temperature resistant to +60°C

Width 30, 40 and 60 mm



Width 80 and 100 mm



For enclosure width mm		Standard length 2000 mm
Length (L) mm		
Width (B) mm	Packs of	Model No.
30	24 pc(s).	8800.750
40	20 pc(s).	8800.751
60	18 pc(s).	8800.752
80	12 pc(s).	8800.753
100	12 pc(s).	8800.754

Colour:

- Similar to RAL 7030

Supply includes:

- 1 pc(s). = 1 cable duct with cover



Accessories:

- Aluminium rivet for attachment, see page 782



Aluminium rivet

For secure assembly of cable ducts. Also suitable for mounting support rails and punched rails.

To fit

- TS system hole pattern
- Drilled hole \varnothing 4.5 mm

Packs of	Model No.
100 pc(s).	8800.531



Accessories:

- Cable ducts for vertical TS section, see page 781
- Cable ducts for mounting plate, see page 782

Cable management

Cable clamp rails

Mounting angle for TS, SE, PC, TP universal console, TS base/plinth, Flex-Block

For strain relief with cable entry. Depth-variable mounting on a 25 mm pitch pattern of holes on the horizontal enclosure section or in the TS base/plinth / Flex-Block.

Material:

- Steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Enclosure width mm	Length mm	Packs of	Model No.
400	385	2 pc(s).	4193.000
600	585	2 pc(s).	4191.000
800	785	2 pc(s).	4192.000
1000	985	2 pc(s).	4336.000
1200	1185	2 pc(s).	4196.000
1600	1585	2 pc(s).	4338.000
1800	1785	2 pc(s).	4339.000



Accessories:

- Fastening bolts for TS base/plinth, see page 622
- Quick-assembly block 4133.000 for Flex-Block, see page 733
- Punched rails 23 x 23 mm for Flex-Block, see page 722

Cable clamps

for cable clamp rails

For fastening the cables to the cable clamp rails.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Plastic insert

For cable diameter mm	Packs of	Model No.
6 - 12	25 pc(s).	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:

- Rail for EMC shielding bracket and strain relief, see page 759

Cable clamp rails

C rail, for mounting plates, for TS, SE, CM, TP

For strain relief with cable entry. The length of the cable clamp rail is tailored to the width of the mounting plate. The mounting bracket included with the supply supports three different installation situations on the mounting plate:

- 1 Straight, at a distance of 23 mm from the mounting plate
- 2 Straight, at a distance of 10 mm from the mounting plate
- 3 Tilted, towards the mounting plate

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

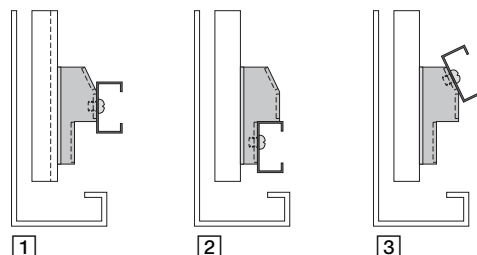
- Two mounting brackets and assembly screws.

For enclosure width mm	Length mm	Packs of	Model No.
600	499	1 pc(s).	5001.080
800	699	1 pc(s).	5001.081
1000	899	1 pc(s).	5001.082
1200	1099	1 pc(s).	5001.083



Accessories:

- Cable clamps for C rails, see page 784



Cable management



Cable clamping bracket

For installation in command panels with mounting cut-out □ 120 x 65 mm and Ø 130 mm.

Cable clamping optionally via:

- Cable clamps
- or
- Cable ties 2597.000
- Standard commercially available cable ties

Bracket height = 25 mm with fitted C rail 40 mm

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

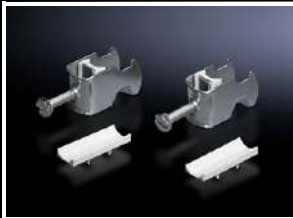
- C rail and assembly screws



Packs of	Model No.
1 pc(s).	6052.000

+ Accessories:

- Cable clamps, see page 784
- Cable ties, see page 785



Cable clamps

for C rails

For attaching the cables to the C rails.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Plastic washers



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 from page 723



Cable conduit and cable conduit holder

For secure cable routing e.g. from the enclosure or mounting plate to the door. Attachment facility for standard commercially available cable ties is provided on the cable conduit holder, so that cables may be attached upon entry to/exit from the cable conduit.

Material:

- Cable conduit: Polythene
- Cable conduit holder: Polyamide



Cable conduit

Internal Ø mm	Packs of	Model No.
16	25 m	2595.000
29	25 m	2589.000
36	25 m	2596.000
48	25 m	2590.000

Cable conduit holder

For cable conduit Ø mm	Packs of	Model No.
16	20 pc(s).	2593.000¹⁾
29	20 pc(s).	2591.000¹⁾
36	20 pc(s).	2594.000
48	20 pc(s).	2592.000

¹⁾ Installation in compact enclosures AE with universal bracket 2373.000, see page 734

Cable management

Cable attachment

For professional, secure fastening of cables and conduits.

For fastening:

- Slide into the punched rail 23 x 23 mm,
- Screw-fasten onto the round punchings of the enclosures, as well as all punched rails and punched sections

Material:

- Polyamide

Note:

- As the attachments are bayable, several attachments, even those of different sizes, can be assembled using just 2 screws

For cable diameter from – to mm	Packs of	Model No.
6 – 9	50 pc(s).	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:

- Posidrive raised countersunk screw M5 x 12 mm, 2488.000, for screw-fastening to the round system punchings, see page 737



Accessories:

- Punched rail 23 x 23 mm, see page 722



Cable tie

The super-fast solution for fastening cables to the enclosure profile or mounting system parts. Simply clip into the round system punchings.

Length mm	Packs of	Model No.
150	100 pc(s).	2597.000



Nylon loop

With the nylon loop, secured cables are easily released, allowing individual cables to be added or removed. Ideal for sensitive data cables (fibre-optic/Cu), as it avoids indentations on the cable sheathing. In addition, the nylon loop may be screw-fastened to the round system punchings or attached using a quick-release fastener.

Colour:

- Black

Supply includes:

- Quick-release fasteners

Width mm	Length mm	Max. cable diameter mm	Packs of	Model No.
20	130	30	10 pc(s).	7072.220
20	200	50	10 pc(s).	7072.230
20	300	90	10 pc(s).	7072.240



Also required:

- Screw 2486.500 for screw-fastening to the round system punchings, see page 737



Nylon tape

For tidy cable routing. Supplied on a reel for cutting to the required length.

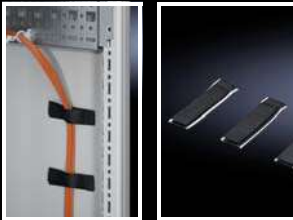
Unlike cable ties, nylon tape

- protects the cable sheathing
- is easily reopened and
- is reusable

Length mm	Width mm	Packs of	Model No.
5000	16	1 pc(s).	2203.400



Cable management



Nylon tape holder

- For simple, fast cable attachment
- Tool-free mounting in the system punchings with 10.5 x 12.5 mm, with a quarter rotation
- Direct use on the horizontal TS frame section, on the support strips and mounting angles of the TS IT 482.6 mm (19") interior installation, on the cable route or on punched sections with mounting flanges
- Length of nylon tape: 400 mm

Material:

- Plastic

Supply includes:

- 10 nylon tapes
- 10 holders

Packs of	Model No.
10 pc(s).	5502.155

Nylon loop cable holder

Self-adhesive

Suitable for universal use in all network enclosures and server racks, wall-mounted enclosures, mounting plates, gland plates.

Material:

- Woven polyamide 6.6

Colour:

- Black

Size length x width mm	Packs of	Model No.
70 x 16	10 pc(s).	7111.350

Snap-in cable routing

for clipping into the system punchings.

Cable routing suitable for universal use, for tool-free, fast assembly, in two variants:

For locking

- User-friendly opening for cable management via locating points
- For cable diameters 14 – 19 mm
- For system punchings 6.2 mm

For twisting

- User-friendly opening for cable management
- For cable diameters 10.2 – 12.7 mm
- For system punchings 4.7 mm

Material:

- Polyamide 6.6, self-extinguishing to UL 94-V2

Colour:

- Natural

Version	Packs of	Model No.
For locking, for system punchings 6.2 mm	10 pc(s).	7111.300
For twisting, for system punchings 4.7 mm	10 pc(s).	7111.310

Cable management

Cable clamp rails

for TS, TS IT

For vertical cable routing in the enclosure. The cables may be attached to the cable clamp rails with cable ties or nylon loops. The cable clamp rails are simply located onto the frame section and may additionally be secured with a screw.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

For the inner mounting level

For enclosures		Packs of	Model No.
Width mm	Depth mm		
600	600	4 pc(s).	7828.061
800	800	4 pc(s).	7828.081
1000	1000	4 pc(s).	7828.101
1200	1200	4 pc(s).	7828.121



For the outer mounting level

For enclosures		Packs of	Model No.
Width mm	Depth mm		
600	600	4 pc(s).	7828.062
800	800	4 pc(s).	7828.082
1000	1000	4 pc(s).	7828.102
1200	1200	4 pc(s).	7828.122



Accessories:

- Cable ties, see page 785
- Nylon loop, see page 785

Cable clamp rails, depth-variable

for TS, TS IT, TE

For cable routing on the enclosure frame and for strain relief of the routed cables. The cables may be attached to the cable clamp rails with cable ties or nylon loops. The cable clamp rails may be located horizontally at the rear directly onto a 482.6 mm (19") mounting level or in the enclosure depth between two mounting levels. An additional screw fastening secures the unit. The depth variability of the rails facilitates flexible adaptation of their length to the existing attachment distance between the two 482.6 mm (19") mounting levels.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Mounting dimension ¹⁾ mm	Packs of	Model No.
325 – 575	4 pc(s).	7858.160
500 – 895	4 pc(s).	7858.162

¹⁾ Mounting dimensions + 152 mm
= distance between 482.6 mm (19") levels



Accessories:

- Cable ties, see page 785
- Nylon loop, see page 785



Cable clamp, variable

for enclosure-independent mounting

Variable attachment from 450 to 800 mm for flexible cable clamping in two variants. Supports attachment to punched sections with and without mounting flanges, and direct screw-fastening onto mounting plates and other flat surfaces.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

1 C rail

2 T-head rail

Version	Packs of	Model No.
C rail	1 pc(s).	7016.140
T-head rail	1 pc(s).	7016.150



Cable management



Cable manager

- For system-compatible cable deflection while complying with minimal bending radii and to accommodate surplus cables and excess length. The elements may optionally be used individually or in combination for cable routing. They may be combined into semi-circular 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 also bayable in an axial direction to allow U-based cable routing to the mounting level, or channelling of the cable sections.

Material:

- Plastic, UL 94-V0

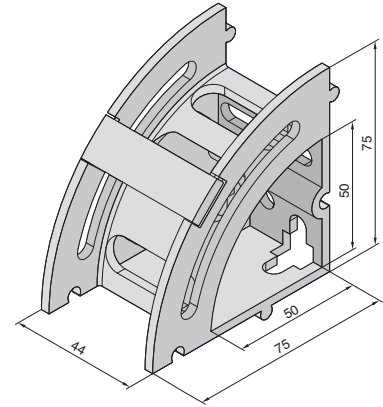
Colour:

- RAL 9005

Supply includes:

- Mounting clips and assembly parts

	Packs of	Model No.
Maxi-kit	20 pc(s).	5502.405



Cable shunting ring

For flexible, system-compatible cable routing at the side of the 482.6 mm (19") mounting angles.

Material:

- Steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Dimensions mm	Packs of	Model No.
125 x 85	10 pc(s).	7111.900
125 x 65	10 pc(s).	7111.000
85 x 43	10 pc(s).	7112.000

Shunting ring

To accommodate large quantities of cables. Shunting ring for side attachment to 482.6 mm (19") sections in 800 mm wide network enclosures. The ring is attached asymmetrically providing approx. 110 mm free space in front of the 482.6 mm (19") level. This allows even large quantities of cables to be effectively managed.

Material:

- Steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Dimensions mm	Packs of	Model No.
330 x 90/70	4 pc(s).	7220.600

Fibre-optic shunting rings

Fibre-optic shunting or jumper cables can be inserted into the grooves of the inner body. A rubber ring holds different fibre-optic cables up to Ø 4.5 mm. Strain relief and bending radius are ensured.

Length: 120 mm

Material:

- Dual compound plastic

Colour:

- Exterior: RAL 7035
- Interior: Black

Supply includes:

- 2 rubber rings
- Baying kit
- Assembly parts

Assembly:

The supplied mounting brackets are suitable for universal use; the fibre-optic cables can be routed to the patch panel in all directions in various mounting positions:

- 1 At the side, directly on the patch panel
- 2 In front of the patch panel
- 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:

- Fibre-optic cable management panel, 1 U, see page 795



System supports for cable routes

for TS, TS IT

The depth-variable support system may be attached to all 800 – 1200 mm deep TS enclosures with external screw-fastening of the roof plate. The integral system punchings, for screws or captive nuts, support the attachment of most common cable route systems.

- May be combined with TS IT fan mounting plate
- In combination with punched rail, suitable for accommodating additional cable routing rails or pipelines
- Support height: 102 mm

Material:

- Sheet steel

Surface finish:

- Powder-coated

Colour:

- RAL 7035

Packs of	Model No.
2 pc(s).	7831.472

Accessories:

- Metal multi-tooth screws 5.5 x 13 mm, 2486.500, see page 737
- Cage nuts M6, 8800.340, see page 736



Cable management



Cable route

for TS, TS IT

- For cable clamping and routing with network and server applications
- Mounting across the entire depth with 800 mm width, mounting only behind the second 482.6 mm (19") pair of mounting angles with 600 mm width
- Tool-free fast assembly
- Alternatively suitable for screw-fastening
- Multi-functional punchings for cable management accessories

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 9005

Supply includes:

- Assembly parts

Height mm	Packs of	Model No.
2000 – 2200	1 pc(s).	5502.120

+ Accessories:

- Cable ties, see page 785
- Nylon tape, see page 785
- Nylon tape holder, see page 786
- Wall-mounted enclosures, see page 788
- Cable routing bars, see page 791



Cable route

for TE

For vertical cable entry at the side of the 482.6 mm (19") mounting frame for TE, independently from the enclosure frame.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Width mm	Height mm	Packs of	Model No.
100	1700	1 pc(s).	7000.685



Surplus cable holder

For fastening at the rear area of the enclosure, or at the side of network enclosures. The surplus cable holder can be attached to all depth stays or to punched sections and rails with a 25 mm pitch pattern – mounting dimension 150 mm. Components may also be joined together.

Material:

- Spray-finished

Surface finish:

- Zinc-plated

Colour:

- RAL 7035

Supply includes:

- Assembly parts

W x H x D mm	Packs of	Model No.
280 x 151 x 75	1 pc(s).	7220.500



Cable management

Cable management 482.6 mm (19")

Cable routing bars

For structured routing of entire cable bundles, the cable bars may be secured to a variety of different positions inside the enclosure.
Individual chambers H x D: 34 x 80 mm

Material:

- Support: Sheet steel
- Cable routing bars, connection combs: Plastic

Colour:

- RAL 9005

Supply includes:

- Cable routing bars
- Connection combs

482.6 mm (19") attachment

For horizontal cable routing within the distributor level.

Thanks to their open mounting holes, they can also be retrospectively slotted onto the 482.6 mm (19") system punchings of the mounting level at any time, and secured with the existing mounting screws of the installed components.

U	No. of connection combs	Packs of	Model No.
4	2 pc(s).	4 pc(s).	7111.224
1	5 pc(s).	10 pc(s).	7111.214

All-round attachment for universal use

For vertical and horizontal cable routing inside the enclosure or within the distributor level.

U	No. of connection combs	Packs of	Model No.
4	2 pc(s).	4 pc(s).	7111.222
1	5 pc(s).	10 pc(s).	7111.212

Connection comb

For connecting individual cable routing bars into complete systems (included with the supply).

Cable duct

for TS IT, TE

- High packing density due to U-based cable routing
- Removable duct cover hinged on both sides
- Bayable back-to-back
- Easily installed with tool-free fast assembly on the front and rear 482.6 mm (19") mounting angle of the TS IT
- Screw-fastening optionally supported

Material:

- Sheet steel
- Plastic, UL 94-V0

Colour:

- RAL 9005

Supply includes:

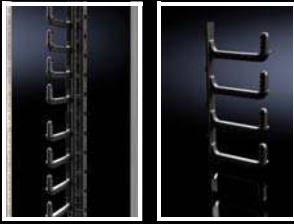
- 2 covers
- 4 cable holders for spare cables
- Assembly parts

For enclosure width mm	For enclosure height mm	U	Packs of	Model No.
800	2000	36	1 pc(s).	5502.105
800	2200	42	1 pc(s).	5502.145



Cable management

Cable management 482.6 mm (19")



Cable finger 6 U

for TS IT

- For U-based cable routing
- Simple tool-free assembly
- Cable routing in combination with air baffle plates supported

Material:

- Plastic, UL 94-V0

Colour:

- RAL 9005

Packs of	Model No.
14 pc(s).	5502.115



482.6 mm (19") drawer

To accommodate surplus cables

The 1 U drawer offers a convenient opportunity for storing surplus cables in an organised, compact and secure way within the 482.6 mm (19") levels.

- With brush strip at the front for cable routing
- 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 482.6 mm (19") levels at a distance of 435 – 750 mm, independently of the enclosure system

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 7035

Distance between levels mm	Packs of	Model No.
435 – 750	1 pc(s).	7063.200

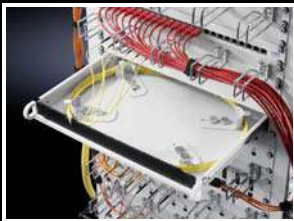
Supply includes:

- Drawer including telescopic slides and assembly parts



Accessories:

- Nylon loop 7072.220/ 7072.230, see page 785



Cable management panel

With plastic rings

For horizontal management of the patch cables, with 5 cable shunting rings.

Cable shunting rings supplied loose

Width: 482.6 mm (19")

Material:

- Panel: Sheet steel
- Rings: Polyamide

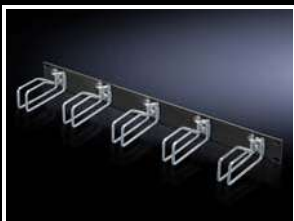
Colour:

- RAL 7035

U	Ring size mm	Packs of	Model No.
1	70 x 44	1 pc(s)	7159.035

Note:

- The dimensions given are external dimensions



Cable management panel

With steel rings

For horizontal management of the patch cables, with 5 cable shunting rings.

Width: 482.6 mm (19")

Material:

- Panel: Sheet steel
- Rings: Steel

Surface finish:

- Rings: Zinc-plated

Note:

- The dimensions given are external dimensions



U	Ring size mm	Colour		Packs of	Model No.
		RAL 7035	RAL 9005		
1	43 x 55	■	–	1 pc(s).	7257.200
1	43 x 55	–	■	1 pc(s)	5502.205
1	43 x 105	■	–	1 pc(s).	7257.035
1	43 x 105	–	■	1 pc(s).	7257.005
2	85 x 125	■	–	1 pc(s).	7257.100
2	85 x 125	–	■	1 pc(s).	7257.105

Cable management

Cable management 482.6 mm (19")

Cable management panel with cable routing bars

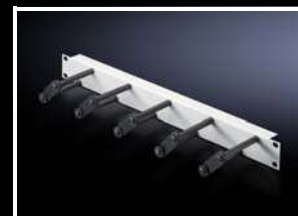
482.6 mm (19")

For horizontal management of the patch cables with 5 cable routing bars. Opening the individual cable routing bars allows user-friendly modification and extension of the cabling.

Material:

- Panel: Sheet steel, spray-finished
- Cable routing bars: Plastic

U	Bar depth mm	No. of bars/U	Colour		Packs of	Model No.
			RAL 7035	RAL 9005		
1	approx. 80	5	■	–	1 pc(s).	7257.050
1	approx. 80	5	–	■	1 pc(s).	5502.225



Cable management panel, 2 U

482.6 mm (19")

The cable routing chamber has cut-outs from above, into which the patch cables can be inserted. The cable management panel is equipped with a flap and quick-release fasteners at the front, for optimum access to the cables. From the rear, the cables can be inserted via a cut-out with brush strips.

Material:

- Sheet steel

Surface finish:

- Spray-finished

U	Depth mm	Colour		Packs of	Model No.
		RAL 7035	RAL 9005		
2	55	■	–	1 pc(s).	7158.035
2	55	–	■	1 pc(s).	5502.235



Cable routing channel panel

482.6 mm (19")

To hold the patching cables.

Material:

- Sheet steel

Surface finish:

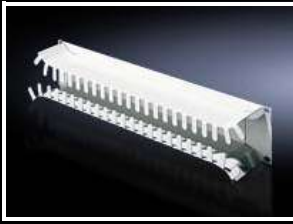
- Spray-finished

U	Depth mm	Colour		Packs of	Model No.
		RAL 7035	RAL 9005		
1	85	■	–	1 pc(s).	7149.135
1	85	–	■	1 pc(s).	5502.245



Cable management

Cable management 482.6 mm (19")



Cable management panel, 2 U

To accommodate fibre-optic and copper cables. Fibres from the patch panels are placed into the tray via openings and may be distributed at the sides. Rounded openings protect the cable sheathing.

Width: 482.6 mm (19")
Depth: 86.5 mm

Material:

– Sheet steel

Surface finish:

– Spray-finished

Colour:

– RAL 7035

U	Packs of	Model No.
2	1 pc(s).	7269.135



Cable management duct, horizontal

482.6 mm (19")

The duct facilitates concealed, simple cable routing of large quantities of cables to equipment within the 482.6 mm (19") mounting level. Large cut-outs ensure convenient, kink-free cable routing to the components at the top and bottom. For simple handling, the entire front panel may be removed via quick-release fasteners. After attaching the cables, these are held in position via nylon loop tapes, whilst the duct may be resealed.

Depth: 87.8 mm

Material:

– Sheet steel

Surface finish:

– Spray-finished

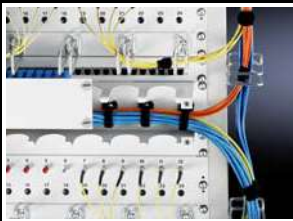
Colour:

– RAL 7035

Supply includes:

– 5 nylon tapes

U	Packs of	Model No.
2	1 pc(s).	7158.100



Cable tray, 2 U

For side routing and distribution of fibre-optic and copper cables. In this way, cables inserted into the roof area may be routed at the side of the mounting angles in the upper section of the rack.

Width: 482.6 mm (19")
Depth: 85 mm

Material:

– Sheet steel

Surface finish:

– Spray-finished

Colour:

– RAL 7035

U	Packs of	Model No.
2	1 pc(s)	7269.235



Cable management

Cable management 482.6 mm (19")

Fibre-optic cable management panel, 1 U

482.6 mm (19")

The four fibre-optic cable shunting rings integrated into the front permit optimum management of up to 48 fibres.

Material:

- Panel: Sheet steel
- Rings: Dual compound plastic

Colour:

- Panel: RAL 7035
- Cable shunting rings: RAL 7035, black interior

U	Packs of	Model No.
1	1 pc(s).	7256.035

Possible alternative:

- Fibre-optic shunting rings 7116.500, see page 789



Cable entry panel

482.6 mm (19")

Cut-out 390 x 40 mm (2 U) or 390 x 20 mm (1 U) with brush insert.

Material:

- Panel: Sheet steel, spray-finished
- Brush strip: Plastic

Colour:

- RAL 9005

U	Cut-out mm	Colour	Packs of	Model No.
1	390 x 20	RAL 7035	1 pc(s).	7140.535
1	390 x 20	RAL 9005	1 pc(s).	5502.255
2	390 x 40	RAL 7035	1 pc(s).	7150.535
2	390 x 40	RAL 9005	1 pc(s).	5502.265



Cable management on the 482.6 mm (19") level

There are various different cable clamping systems available for system-compatible cable routing in 482.6 mm (19") systems with one or two mounting levels:

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

1 C rail

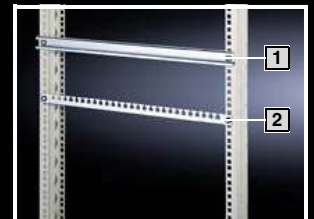
for mounting between all 482.6 mm (19") mounting levels for cable clamps

C rail	Packs of	Model No.
482.6 mm (19") level	6 pc(s).	7016.100

2 Cable clamp rails

for mounting between all 482.6 mm (19") mounting levels for cable ties

Cable clamp rail	Packs of	Model No.
482.6 mm (19") level	6 pc(s).	7016.110



482.6 mm (19") installation system

Swing frame



Swing frame, small

Installation for TS, SE, 600 mm and 800 mm wide enclosures

For mounting 482.6 mm (19") equipment.

Material:

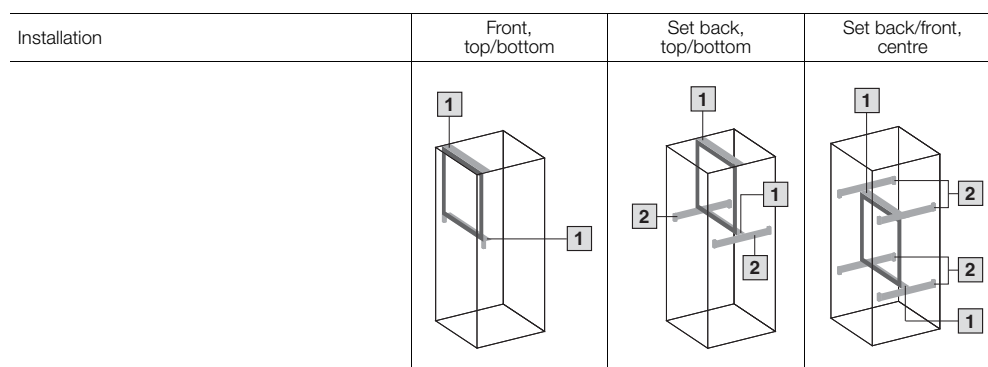
– Sheet steel

Surface finish:

– Zinc-plated

Supply includes:

– Cam with double-bit lock insert and parts for attaching to the installation kit



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:

		for enclosure width	
		600	800
[1] Installation kit	1 set(s)	2377.860	2377.880
[2] PS punched section without mounting flange, 2 or 4 required	For enclosure depth mm		
	400	4 pc(s).	4374.000
	500	4 pc(s).	4375.000
	600	4 pc(s).	4376.000
	800	4 pc(s).	4377.000
Support bracket, 2 required per PS punched section without mounting flange	6 set(s)	8800.330	731
Accessories			
Lock inserts, type D		2484.000	680

Note:

– The swing frame stay is required to lock the open swing frame, see page 799

482.6 mm (19") installation system

Swing frame

Swing frame, large

Without trim panel, for 600 mm and 1200 mm wide enclosures

For mounting 482.6 mm (19") equipment.

Material:

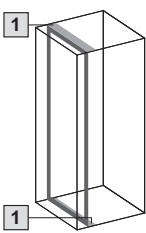
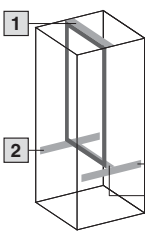
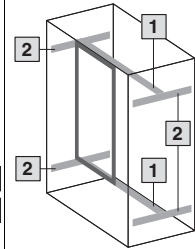
– Sheet steel

Surface finish:

– Zinc-plated

Supply includes:

– Cam with double-bit lock insert and parts for attaching to the installation kit

Installation	Full installation, front/set back	Partial installation top, front/set back	Partial installation centre, front/set back
			

For enclosure width mm			600	1200
U	For min. enclosure height mm	Packs of	Model No.	
22	1200	1 pc(s).	2322.700	
31	1600	1 pc(s).	2331.700	
36	1800	1 pc(s).	2336.700	
40	2000	1 pc(s).	2340.700	
45	2200	1 pc(s).	2345.700	

Accessories	Page
Lock inserts, type D	2484.000 680

Also required:

1) Installation kits

For enclosure		Hinge	Load capacity	Model No.	Packs of
TS	SE				
■	■	130°	< 1500 N ²⁾	1994.835	– 1 pc(s).
■	■	130°	< 1500 N ²⁾	–	1996.835 1 pc(s).
■	■	130°	< 1500 N ¹⁾	–	1996.535 1 pc(s).

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:

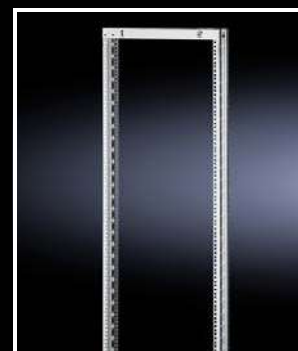
TS punched section with mounting flange 23 x 73 mm, 2 or 4 pc(s). required

Installation in enclosure depth mm	Packs of	Model No.	Page
400	4 pc(s).	8612.040 ¹⁾	717
500	4 pc(s).	8612.550	718
600	4 pc(s).	8612.560	718
800	4 pc(s).	8612.580	718
1000	4 pc(s).	8612.500	718
1200	4 pc(s).	8612.520	718

¹⁾ TS punched section with mounting flange, 17 x 73 mm

Note:

– The swing frame stay is required to lock the open swing frame, see page 799



482.6 mm (19") installation system

Swing frame



Swing frame, large

With trim panel, for 800 mm wide enclosures

For mounting 482.6 mm (19") equipment.

Material:

– Sheet steel

Surface finish:

– Frame: Zinc-plated
– Trim panel: Spray-finished

Colour:

– RAL 7035

Supply includes:

– Locking rod system with double-bit lock insert and parts for attaching to the installation kit

Installation	Full installation, width 800 mm, front/set back	Partial installation top, width 800 mm, front/set back	Partial installation centre (in the height), width 800 mm, front/set back

Mounting position	side	central

With hinge	130°/180°	180°
For enclosure width mm	800	

U	For min. enclosure height mm	Packs of	Model No.	
22	1200	1 pc(s).	2323.235	2324.235
31	1600	1 pc(s).	2332.235	–
36	1800	1 pc(s).	2337.235	2338.235
40	2000	1 pc(s).	2341.235	2342.235
45	2200	1 pc(s).	2346.235	2347.235

Heavy-duty version¹⁾

U	For enclosure height mm	Packs of	Model No.	
40	2000	1 pc(s).	7858.100	–

Accessories

Ergoform-S lock systems	see page 678
Lock inserts, type A	see page 680

Also required:

Installation kits		Hinge	Load capacity	Model No.	Packs of
TS	SE				
■	■	130°	< 1500 N ³⁾	1995.235	1 pc(s).
■	■		< 1500 N ²⁾	1995.835	1 pc(s).
■	■	180°	< 1200 N ³⁾	1997.235	1 pc(s).
■	■		< 1200 N ²⁾	1997.835	1 pc(s).

¹⁾ Load capacity 350 kg, including installation kit, for enclosure height 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 punched section with mounting flange 23 x 73 mm, 2 or 4 pc(s). required

Installation in enclosure width/depth mm	Packs of	Model No.	Page
400	4 pc(s).	8612.040 ¹⁾	717
500	4 pc(s).	8612.550	718
600	4 pc(s).	8612.560	718
800	4 pc(s).	8612.580	718
1000	4 pc(s).	8612.500	718
1200	4 pc(s).	8612.520	718

¹⁾ TS punched section w. mounting flange, 17 x 73 mm

Note:

– The swing frame stay is required to lock the open swing frame, see page 799

482.6 mm (19") installation system

Swing frame

Compact swing frame

for AE

For mounting slide-in electronic equipment, 482.6 mm (19"), across the entire height.

Technical specifications:

– Torsionally stiff frame, welded from rectangular tube and triple-folded support section

Material:

– Sheet steel

Colour:

– RAL 7035

Supply includes:

– Double-bit lock insert and assembly parts

Width mm	600	600	600/760
Height mm	380	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:

– 41 mm lock insert, type C, see page 680



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 bottom of the enclosure (with safety stop 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, may be mounted at the top or bottom on the installation kit



Slide rails

To support heavy slide-in electronic equipment, 482.6 mm (19") in the swing frame.

Material:

– Sheet steel

Surface finish:

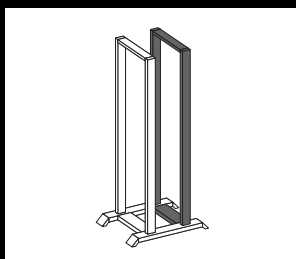
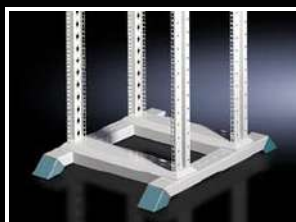
– Zinc-plated

For slide-in equipment with max. installation depth	Packs of	Model No.
D max. < 190 mm	10 pc(s).	1962.200
D max. > 190 mm	10 pc(s).	1963.200



482.6 mm (19") installation system

Accessories for Data Rack



Second mounting level

To accommodate 482.6 mm (19") network components or for the attachment of component shelves and slide rails. 482.6 mm (19") punched profile at the front, hole centre distance 465 mm (470 mm at the rear), tailored to the attachment of patch panels and cable routing rails. The mounting level may be positioned on a 50 mm pitch pattern. Minimum distance between levels 150 mm, maximum distance between levels 350 mm.

Material:

- Sheet steel, 2 mm

Surface finish:

- Spray-finished

Colour:

- Profile frame: RAL 7035
- Trim panel: RAL 5018

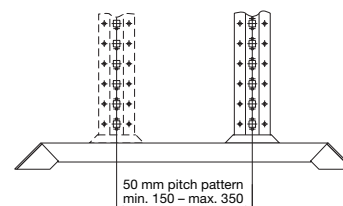
Supply includes:

- 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

+ **Accessories:**

- Support strips, see page 800



Baying connector

For assembling rows of distributor frames, or for cable routing between data racks.

Technical specifications:

- Length: 53 mm

Packs of	Model No.
3 pc(s).	7494.000

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 7035

Supply includes:

- Assembly parts



Depth stays

For securing and stabilising two 482.6 mm (19") mounting levels in the Data Rack.

The length of the depth stays is adjustable, and can accommodate the following spacings of mounting angles: 250, 300 and 350 mm.

Packs of	Model No.
2 pc(s).	7401.000

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 7035

Supply includes:

- Assembly parts



Continuous slide rail

for two mounting levels, 482.6 mm (19")

To support heavy equipment in the Data Rack.

The mounting dimensions of the slide rails were selected to enable them to be combined with 500 mm deep, 482.6 mm (19") component shelves. The mounting distance between the 482.6 mm (19") mounting levels is 350 mm.

Packs of	Model No.
2 pc(s).	7402.000

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

! **Also required:**

- Second mounting level, see page 800

+ **Accessories:**

- Component shelf, 500 mm deep, see page 739

482.6 mm (19") installation system

Mounting angles

Adaptor sections, 482.6 mm (19")

for TS, SE

For the installation of subracks and other equipment. Adaptor sections are easily shortened for partial assemblies.

Supply includes:

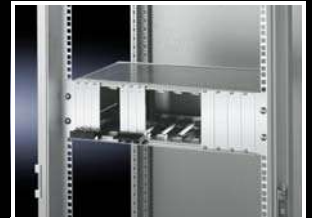
- Assembly parts

Note:

- The 482.6 mm (19") measurement is obtained when mounting on the TS frame for enclosures with width 600 mm

+ Accessories:

- Infill panels, see page 802
- Cage nuts, see page 815
- Assembly screws, see page 737
- Slide rails with one-sided mounting, see page 808
- Slide rails with two-sided mounting, see page 808
- Component shelf mounting kit, see page 811



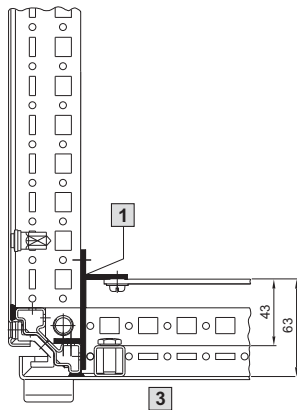
For enclosure system TS¹⁾

For enclosure height mm	Material	U	Packs of	Model No.
1600	Extruded aluminium section	33	4 pc(s).	8613.060
1800		38	4 pc(s).	8613.080
2000		42	4 pc(s).	8613.000

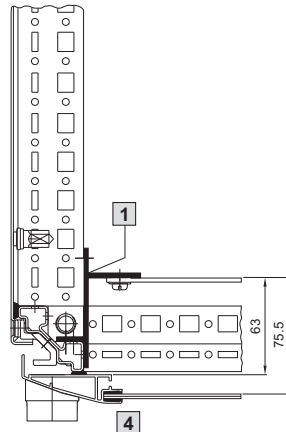
¹⁾ For the rear of electronic enclosures, see page 802

Mounting examples for TS:

Drawing 1



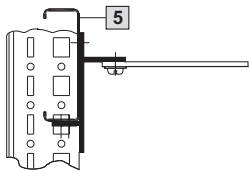
Drawing 2



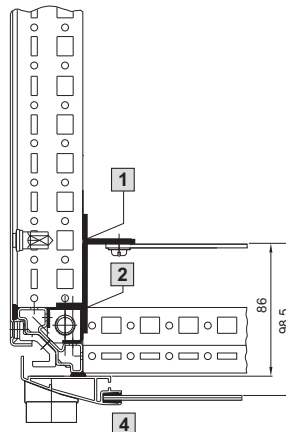
Drawing 1 and 2:

Adaptor section or adaptor piece fitted in the foremost installation position, directly on the vertical section. When installing slide rails with two-sided mounting (see page 808), the same sections or adaptor pieces must also be mounted on the vertical section at the rear.

Drawing 3



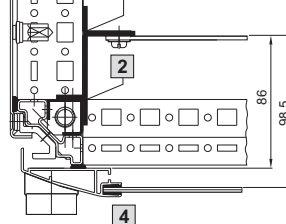
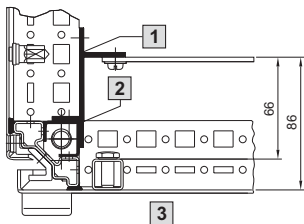
Drawing 3



Drawing 3:

Mounting on two vertically installed PS punched sections permits fully flexible use of the enclosure depth.

Drawing 4



Drawing 4 and 5:

Greater distance from the door is achieved by mounting on adaptor rails for PS compatibility. In this position, the slide rail can be fitted with one-sided mounting.

1 Adaptor section/piece

2 Adaptor rail

3 TS sheet steel door

4 TS glazed door

5 Punched sections without mounting flanges

482.6 mm (19") installation system

Mounting angles



Adaptor pieces, 482.6 mm (19") for TS, SE

The "1 U" sub-section of adaptor sections. For the installation of individual sub racks and other equipment.

Supply includes:

- Assembly parts

Assembly examples:

May be found on page 801

Note:

- The 482.6 mm (19") measurement is obtained when mounting on the TS frame for enclosures with width 600 mm
- Adaptor set 7246.100 for 800 mm wide enclosures, see page 809



U	Packs of	Model No.
1	4 pc(s).	8613.010

+ **Accessories:**

- Cage nuts, see page 815
- Assembly screws, see page 737
- Slide rails with two-sided mounting, see page 808
- Component shelf mounting kit, see page 811



Adaptor sections, 482.6 mm (19") for TS electronic enclosure, rear

For installing sub racks on both sides, and for attaching slide rails 8613.150, 8613.160 and 8613.180 (see page 808).

For mounting on the inner mounting level. The outer mounting level may, for example, still be used for cable routing on depth-mounted TS punched sections with mounting flange.

Material:

- Extruded aluminium section

Supply includes:

- Assembly parts

Note:

- Design similar to adaptor sections, 482.6 mm (19"), see page 801, but asymmetrical height, suitable for TS electronic enclosure

For enclosure height mm	U	Packs of	Model No.
1600	33	2 pc(s).	8613.360
2000	42	2 pc(s).	8613.300

+ **Accessories:**

- Cage nuts, see page 815
- Assembly screws, see page 737
- Slide rails with two-sided mounting, see page 808
- Component shelf mounting kit, see page 811

⇔ **Possible alternative:**

- Adaptor pieces, 482.6 mm (19"), see page 802



Infill panels, 482.6 mm (19"), horizontal for adaptor sections

To infill between installed 482.6 mm (19") equipment positioned in the full enclosure height and the enclosure clearance height.

Material:

- Extruded aluminium section

Supply includes:

- Assembly parts

For enclosure height mm	Packs of	Model No.
1600/2000	2 pc(s).	8613.040
1800/2200	2 pc(s).	8613.030



Mounting angles 482.6 mm (19") for Outdoor enclosures

For mounting 482.6 mm (19") components in outdoor enclosures. The mounting angles are depth-adjustable on a 25 mm pitch pattern. A depth stay is required to attach the mounting angles.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

For enclosure height mm	U	Packs of	Model No.
1200	24	2 pc(s).	7688.000

Supply includes:

- Mounting accessories

! **Also required:**

Depth stays, see page 803

482.6 mm (19") installation system

Mounting angles

Depth stays

for mounting angles 482.6 mm (19")

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Mounting accessories

For enclosure width mm	Installation (centre)	Packs of	Model No.
600/1200	482.6 mm (19")	2 pc(s).	7696.000
800	482.6 mm (19")/ metric	2 pc(s).	7698.000



Mounting frame, 482.6 mm (19")

for TS, TS IT

Firmly linked 482.6 mm (19") mounting frame for integration of a 482.6 mm (19") mounting level within a TS frame structure. Profiles analogous to TS IT for complete system compatibility, incl. tool-free assembly. Depth-variable mounting between the roof and base frames. Individual height units bidirectionally numbered. Mounting frame at the front, prepared for the integration of cable management and Dynamic Rack Control (RFID), mounting frame at the rear for space-saving integration of the PDU busbar, in the Zero-U space on both sides.

Material:

- Sheet steel

Surface finish:

- Primed

Colour:

- RAL 9005

Load capacity:

- Up to 10,000 N static load, with even load distribution on two 482.6 mm (19") mounting frames, fully configured

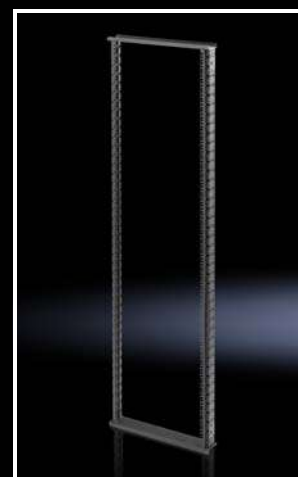
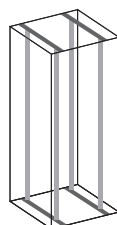
Supply includes:

- Assembly parts

Note:

- The outer mounting level of the enclosure frame is left free for other installed equipment; all-round compartmentalisation with air baffle plates is supported

For enclosure width mm	For enclosure height mm	Installation position	Packs of	Model No.
600	1800	front	1 pc(s).	5501.242
600	1800	rear	1 pc(s).	5501.245
800	1800	front	1 pc(s).	5501.252
800	1800	rear	1 pc(s).	5501.255
600	2000	front	1 pc(s).	5501.262
600	2000	rear	1 pc(s).	5501.265
800	2000	front	1 pc(s).	5501.272
800	2000	rear	1 pc(s).	5501.275
600	2200	front	1 pc(s).	5501.282
600	2200	rear	1 pc(s).	5501.285
800	2200	front	1 pc(s).	5501.292
800	2200	rear	1 pc(s).	5501.295



Additional fastening attachment for mounting angles

for TS IT

Prevents the mounting angles from twisting in case of unevenly distributed loads. Secured directly between the mounting angle and a mounting section on the outer mounting level of the TS frame structure.

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 9005

Supply includes:

- Assembly parts

For enclosure width mm	Packs of	Model No.
600	2 pc(s).	5501.225
800	2 pc(s).	5501.235



Also required:

- TS punched section with mounting flange, 17 x 73 mm, see page 717



Assembly instruction:

- For the outer mounting level, the TS punched section with mounting flange 17 x 73 mm is additionally required



482.6 mm (19") installation system

Mounting angles



Mounting angles, 482.6 mm (19")

for TS

L-bracket

The L-shaped mounting angles accommodate the installation kits of server systems. The integral U markings in the front facilitate systematic assembly within the 482.6 mm (19") attachment level.

Technical specifications:

- Integral 482.6 mm (19") punchings (EIA standard)
- Side punchings, round and square

Material:

- Sheet steel, 2 mm

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

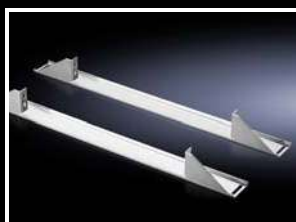
Full installation rack height mm	U	Packs of	Model No.
1800	38	2 pc(s).	7827.181
2000	42	2 pc(s).	7827.201
2200	47	2 pc(s).	7827.221

! Also required:

- TS punched sections with mounting flanges or TS installation brackets as installation kit for mounting angles, see page 804

+ Accessories:

- Additional fastening attachment for L-shaped mounting angles 7284.135, see page 805
- 482.6 mm (19") fastener, 1 U, 2090.000, see page 815
- Attachment of component shelves: Adaptor 7827.300, see page 746



Installation bracket TS

for L-shaped mounting angles into TS, 482.6 mm (19")

Installation in enclosure width 800 mm

The installation brackets are screw-fastened to the enclosure frame in the enclosure width. The mounting angle is attached to the installation bracket at the top and bottom. The brackets ensure optimum clearance at the sides for cable routing. For partial enclosure configuration, the installation brackets may be attached to the TS punched sections with mounting flanges 17 x 73 mm on the outer and inner mounting level of the enclosure frame. Fully depth-variable mounting is facilitated by the attachment slots.

Installation position	Packs of	Model No.
Centred	2 pc(s).	7827.480

Material:

- Sheet steel

Surface finish:

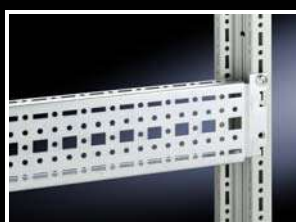
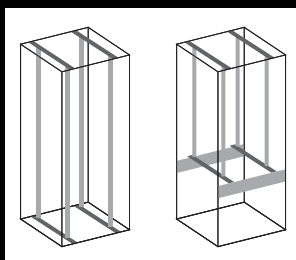
- Zinc-plated

Supply includes:

- Assembly parts

+ Accessories:

- For partial installation, TS punched section with mounting flange, see page 717 - 718
- For partial installation, L-shaped mounting angles, see page 804



TS punched section with mounting flange as installation kit

for L-shaped mounting angles into TS, 482.6 mm (19")

Installation in enclosure width 600 mm

The installation kit consists of 4 TS punched sections with mounting flange 17 x 73 mm to accommodate mounting angles. One pack is sufficient for installing one or two 482.6 mm (19") mounting levels. For exceptionally heavy installed equipment, we recommend the installation of additional punched sections in the centre.

For enclosures		Packs of	Model No.
Width mm	Depth mm		
600	600	4 pc(s).	8612.060
600	800	4 pc(s).	8612.080
600	1000	4 pc(s).	8612.000
600	1200	4 pc(s).	8612.020

Material:

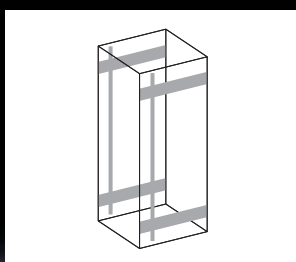
- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts



482.6 mm (19") installation system

Mounting angles

Additional fastening attachment for mounting angles

for L-shaped mounting angles in TS

The additional fastening attachment prevents the mounting angles mounted on installation brackets from twisting in case of unevenly distributed loads. It is attached directly to 482.6 mm (19") mounting angles and to the punched section with mounting flange fitted in the depth (inner mounting level).

Material:

- Sheet steel

Supply includes:

- Assembly parts

For enclosure width mm	Packs of	Model No.
800	2 pc(s).	7284.135



Also required:

- TS punched section with mounting flange for the inner mounting level, see page 717 – 718



Mounting kit, 2 U

for 482.6 mm (19") equipment

Facilitates fast, simple integration of additional 2 U mounting space within an enclosure by attaching to the enclosure frame or to the existing mounting angles at the sides. The flexible slot fastening of the brackets means that the distance between the two installation brackets may be freely selected, to facilitate other 482.6 mm (19") mounting dimensions. The second row of holes is used for the optional configuration of additional mounting surfaces.

Packs of	Model No.
2 pc(s).	7246.420

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts



Mounting angles, 482.6 mm (19")

for FlatBox

L-shaped bracket as 2nd mounting level

Material:

- Sheet steel, spray-finished

Supply includes:

- Assembly parts for fast, tool-free assembly

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

Note:

- The 2nd mounting level should always be ordered in the same height as the basic enclosure
- Partial configuration is not possible



Adhesive measurement strip, 482.6 mm (19")

Made from robust aluminium foil, guarantees easy handling and durability. With numerical labelling on an imperial pitch pattern for clear identification of the various height units. The double-sided labelling allows the counting direction to be freely selected, up to a maximum of 56 U. In this way, clear documentation of the various mounting parts is easily achieved.

Material:

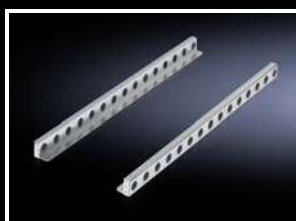
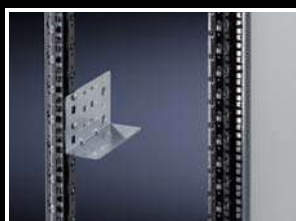
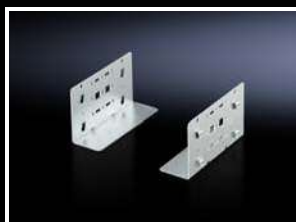
- Aluminium foil

U labelling range	Packs of	Model No.
1 – 56	1 pc(s).	7950.100



482.6 mm (19") installation system

Slide rails



Slide rails, static installation

for TS IT

For mounting on one 482.6 mm (19") mounting level.

- System punchings for mounting accessories and cooling active components

Load capacity:

- 30 kg, static

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

U	Length mm	Packs of	Model No.
2	150	2 pc(s).	5501.400

Slide rails, static installation

for TS IT

For mounting on two 482.6 mm (19") mounting levels.

- To support heavy installed equipment.
- Side system punchings for mounting accessories and cooling components that expel to the side
- Simply locate into the system punchings of the TS IT

Load capacity:

- 80 kg, static

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Note:

- Effective contact surface 35 mm per side

U	Distance between 482.6 mm (19") levels mm	Packs of	Model No.
1	345	2 pc(s).	5501.410
1	445	2 pc(s).	5501.420
1	545	2 pc(s).	5501.430
1	645	2 pc(s).	5501.440
1	745	2 pc(s).	5501.450

Slide rails, heavy-duty

for TS IT, TE

With L-shaped mounting angles or 482.6 mm (19") mounting frames and a clearance between levels of 745 mm. Easily and quickly installed thanks to locating brackets for the rear level.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Load capacity (static):

- 1000 N

Supply includes:

- Assembly parts

Distance between 482.6 mm (19") levels mm	Contact surface, width mm	Contact surface, depth mm	Packs of	Model No.
745	50	734	2 pc(s).	7063.740

482.6 mm (19") installation system

Slide rails

Slide rails, static installation

for TE

For mounting between the front and rear 482.6 mm (19") mounting levels. The slide rails can be used to support heavy 482.6 mm (19") components.

Material:

– Sheet steel

Surface finish:

– Zinc-plated

Load capacity (static):

– 800 N

Supply includes:

– Assembly parts

Distance between 482.6 mm (19") levels mm	Contact surface, width mm	Contact surface, depth mm	Packs of	Model No.
395	85	324	2 pc(s).	7963.310
495	85	424	2 pc(s).	7963.410
595	85	524	2 pc(s).	7963.510
695	85	624	2 pc(s).	7963.610
795	85	724	2 pc(s).	7963.710



Slide rails, depth-variable

482.6 mm (19") for TS IT, TE

For mounting between the front and rear mounting level.

- To support heavy installed equipment
- To adapt to individual distances between 482.6 mm (19") levels
- Tool-free, time-saving one-man assembly from the enclosure front
- All three mounting holes in the EIA system punchings are available for screw-fastening the equipment
- Alternatively, direct attachment to the 482.6 mm (19") system punchings is also possible

Distance between 482.6 mm (19") levels mm	Load capacity kg	Packs of	Model No.
400 – 600	80	2 pc(s).	5501.460
600 – 900	150	2 pc(s).	5501.480

Material:

– Sheet steel

Surface finish:

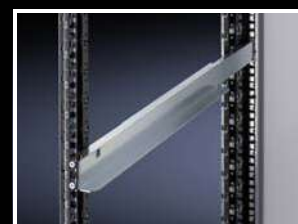
– Zinc-plated

Supply includes:

– Assembly parts

Note:

– Effective contact surface 25 mm per side



Slide rails, depth-variable, 1 U

for TS, SE

For direct attachment to the 482.6 mm (19") system punchings without additional loss of U. The slide rails are pulled out to the required length and secured between the front and rear mounting level on the 482.6 mm (19") pitch pattern.

Load capacity:

– 20 kg static load

Material:

– Sheet steel

Surface finish:

– Zinc-plated

Supply includes:

– Assembly parts

Distance between 482.6 mm (19") levels mm	Support surface mm	Packs of	Model No.
390 – 550	30	2 pc(s).	7063.750
550 – 750	30	2 pc(s).	7063.752

Note:

- Thanks to the thin support area of only around 0.8 mm thickness, exceeding the U pitch pattern is generally avoided, provided the components do not exceed a maximum height of 43.5 mm. This means that several devices are easily arranged on top of one another without offsetting.
- Not to be combined with cranked mounting angles



482.6 mm (19") installation system

Slide rails



Slide rails

for TS adaptor section

With two-sided mounting between the 482.6 mm (19") front and rear adaptor sections, 482.6 mm (19") or adaptor pieces, 482.6 mm (19").

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

For enclosure depth mm	Packs of	Model No.
500	10 pc(s).	8613.150
600	10 pc(s).	8613.160
800	10 pc(s).	8613.180



Also required:

- Adaptor sections, 482.6 mm (19"), see page 801, or
- Adaptor pieces, 482.6 mm (19"), see page 802



Slide rails

for TS adaptor section

With one-sided mounting on the 482.6 mm (19") adaptor sections

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Length mm	Packs of	Model No.
270	10 pc(s).	4531.000



Also required:

- Adaptor sections, 482.6 mm (19"), see page 801

482.6 mm (19") installation system

482.6 mm (19") installation

Server telescopic slides

Guarantee optimum accessibility to the units, even when built-in. For a maximum enclosure width of 426 mm.

Load capacity:

- 30 kg

Material:

- Sheet steel

Supply includes:

- 2 telescopic slides, installation kit, assembly parts

For enclosure depth mm	Maximum extension mm	Model No.
600	511.2	3659.180
800	596.4	3659.190

Note:

- May only be fitted in conjunction with L-shaped 482.6 mm (19") sections.



Adaptor kit, 3 U

for 800 mm wide TS enclosures

For fastening individual 482.6 mm (19") components, or as an additional mounting facility at the rear of the enclosure. The mounting level in the adaptor angle can be adjusted in 25 mm increments by up to 100 mm in the depth, leaving sufficient space for buying where patch panels or splicing boxes are used. Attachment is on the inner mounting level of the frame section or a suitable chassis in the enclosure depth.

Material:

- Sheet steel

Surface finish:

- Spray-finished

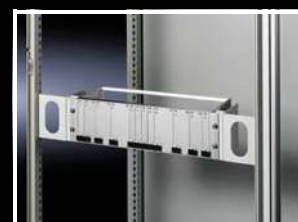
Colour:

- RAL 7035

Supply includes:

- Assembly parts

Height	Mounting position	Packs of	Model No.
3 U	Centred	2 pc(s).	7246.100



Adaptor, 3 U

Depth offset 100 mm

The adaptor is used to recess 482.6 mm (19") mounting of equipment inside enclosures with 482.6 mm (19") installation in the foremost position, such as server or electronic enclosures. In this way, sufficient space can be gained in front of the mounting equipment to integrate patch panels or switches, whilst at the same time exploiting the maximum enclosure depth.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Packs of	Model No.
2 pc(s).	7246.400



482.6 mm (19") installation system

482.6 mm (19") installation



Adaptor, metric to 21"/19"

With this adaptor, 482.6 mm (19") assemblies may be fastened to metric (535 mm) mounting angles, or combined systems may be configured.

Material:

- Extruded aluminium section

Supply includes:

- Assembly parts

SU	U	Packs of	Model No.
2	1	2 pc(s).	7246.010
6	3	2 pc(s).	7246.030
11	6	2 pc(s).	7246.060



Drawer, 2 U, 3 U

for one 482.6 mm (19") mounting level

For front attachment to mounting angles, 482.6 mm (19"). With cover and telescopic slides to accommodate assignment lists, operating manuals and small parts. The small version of the 2 U variant is also suitable for mounting inside a swing frame.

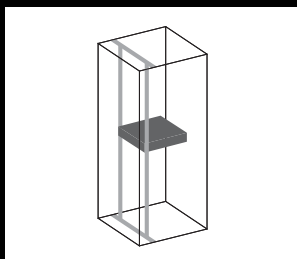
Material:

- Sheet steel

Supply includes:

- Drawer fully assembled including security lock 12321

Height	Clearance openings		Installation depth mm	Colour		Packs of	Model No.
	Width mm	Depth mm		RAL 7035	RAL 9005		
2 U	411	244	250	■	-	1 pc(s).	7282.135
2 U	411	419	427	■	-	1 pc(s).	7282.035
2 U	411	419	427	-	■	1 pc(s).	5502.305
3 U	411	419	427	■	-	1 pc(s).	7283.035
3 U	411	419	427	-	■	1 pc(s).	5502.325



Small equipment box, 4 U, shielded

for one 482.6 mm (19") mounting level

For accommodation of small equipment and other accessories within a partitioned 482.6 mm (19") installation level. The small equipment box contains an adjustable mounting base which can be used to further sub-divide the box.

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 9005

Load capacity:

- 200 N surface load, static

Supply includes:

- Small equipment box with brush strip
- 1 shelf



Contact width mm	Contact depth mm	Width mm	Height mm	Depth mm	Packs of	Model No.
405	300	427	170	400	1 pc(s).	5501.900

482.6 mm (19") installation system

482.6 mm (19") installation

Installation kit

for component shelves with 482.6 mm (19") adaptor sections in TS

For installation between the front and rear adaptor sections or adaptor pieces, 482.6 mm (19") in 600 mm wide enclosures.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

For enclosure system TS

For enclosure depth mm	Packs of	Model No.
600	2 pc(s).	8800.560
800	2 pc(s).	8800.580

Max. depth of component shelves = Enclosure depth - 100 mm



Also required:

- Adaptor sections, 482.6 mm (19"), see page 801, or
- Adaptor pieces, 482.6 mm (19"), see page 802
- Component shelf, 482.6 mm (19") installation 7144.035, 7145.035, see page 741



Blanking plates, 482.6 mm (19")

For installation in electronic enclosures or housings.

Material:

- Aluminium

Surface finish:

- Natural anodised

U	Packs of	Model No.
1	3 pc(s).	1931.200
2	3 pc(s).	1932.200
3	3 pc(s).	1933.200
4	3 pc(s).	1934.200
6	3 pc(s).	1936.200
7	3 pc(s).	1935.200
9	3 pc(s).	1939.200
12	3 pc(s).	1937.200



Hinge

for blanking plates

Material:

- Die-cast zinc

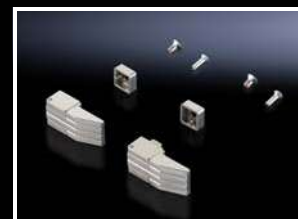
Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Packs of	Model No.
2 pc(s)	1950.000



Ventilated front panels

For venting enclosures and housings.

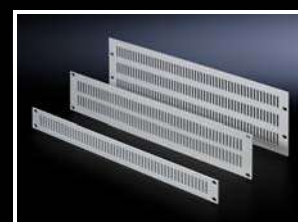
Material:

- Aluminium

Surface finish:

- Natural anodised

Width	U	Packs of	Model No.
482.6 mm (19")	1	3 pc(s).	2231.000
482.6 mm (19")	2	3 pc(s).	2232.000
482.6 mm (19")	3	3 pc(s).	2233.000



482.6 mm (19") installation system

482.6 mm (19") installation



Air baffle plates

for TS IT 482.6 mm (19") mounting angles

- To separate the hot/cold zones within an enclosure with aisle containment or when using an LCP system
- With all-round brush strip for collision-free shielding with installed rail systems on the outer mounting level

Material:

- Sheet steel
- Plastic, UL 94-V0

Surface finish:

- Spray-finished

Colour:

- RAL 9005

Supply includes:

- Assembly parts

For enclosure width mm	For enclosure height mm	Product-specific scope of supply	Packs of	Model No.
600	2000	-	1 pc(s).	5501.805
800	2000	6 blanking panels, 1 U	1 pc(s).	5501.815
600	2200	-	1 pc(s).	5501.825
800	2200	6 blanking panels, 1 U	1 pc(s).	5501.835

Air baffle plates

for TS IT 482.6 mm (19") mounting frames

With all-round brush strip for collision-free shielding with installed rail systems on the outer mounting level.

Applications:

- To separate the hot/cold zones within an enclosure with aisle containment or when using an LCP system

Material:

- Sheet steel
- Blanking panel: Plastic, to UL 94-V0
- Brush strip: Plastic, UL 94-V0

Surface finish:

- Spray-finished

Colour:

- RAL 9005

Supply includes:

- Air baffle plate with all-round brush strip
- Assembly parts

For enclosure width mm	For enclosure height mm	Product-specific scope of supply	Packs of	Model No.
600	1200	-	1 pc(s).	5501.855
800	1200	1 blanking panel, 3 U	1 pc(s).	5501.865
600	1800	-	1 pc(s).	5501.875
800	1800	2 blanking panels, 3 U	1 pc(s).	5501.885
600	2000	-	1 pc(s).	5501.905
800	2000	2 blanking panels, 3 U	1 pc(s).	5501.915
600	2200	-	1 pc(s).	5501.925
800	2200	2 blanking panels, 3 U	1 pc(s).	5501.935

482.6 mm (19") air duct

for horizontal air routing

Air duct, passive, for cold air intake to 482.6 mm (19") IT equipment installed at the rear of server racks which draws in air from the front.

Benefits:

- For superior air infeed to the rear 482.6 mm (19") components
- Integral brush strip for cable entry of 482.6 mm (19") IT equipment
- Supports front-to-back air routing
- Depth-variable

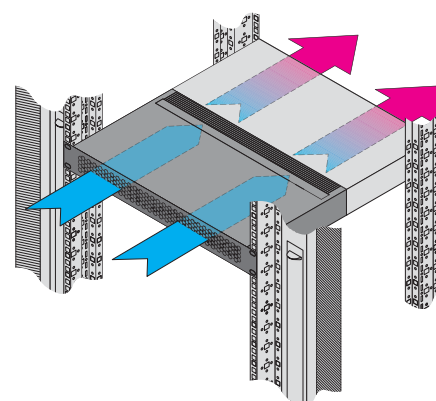
Material:

- Sheet steel, spray-finished

Colour:

- RAL 9005

Width mm	Height U	Depth mm	Packs of	Model No.
482.6	1	223 - 356	1 pc(s).	3301.391



482.6 mm (19") installation system

482.6 mm (19") installation

Air duct

for side air routing

Air duct, passive, for cold air intake to 482.6 mm (19") equipment with side air inlet.

Benefits:

- For superior air infeed to the rear 482.6 mm (19") equipment with side air routing
- Integral membrane cover allows cable entry to the rear
- Depth-variable

Installation options:

- for TS IT 482.6 mm (19") mounting angles
- for TS IT 482.6 mm (19") mounting frames

Material:

- Sheet steel, spray-finished

Colour:

- RAL 9005

Supply includes:

- Adaptor for attaching to 482.6 mm (19") mounting angles
- Magnetic strip to cover the remaining vertical openings in the air baffle plate



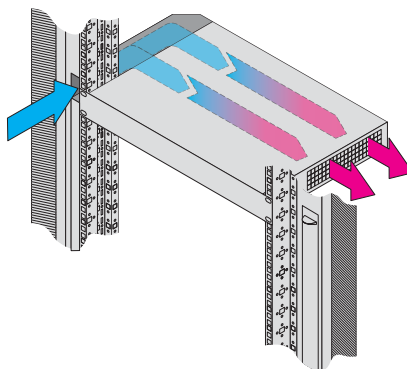
Also required:

- Air baffle plates for TS IT 482.6 mm (19") mounting frames, see page 812
- Air baffle plates for TS IT 482.6 mm (19") mounting angles, see page 812



Assembly instruction:

- Only suitable for fitting on the front 482.6 mm (19") installation level



Height U	Depth mm	For enclosures	For enclosure width mm	Packs of	Model No.
2	275 – 418	TS IT	800	1 pc(s).	3301.392

Cover, magnetic

For optionally covering the front system punchings in the event of complete air blocking of the front, or in the absence of installed cable fingers or dynamic rack control strip.

With numerical labelling on an imperial pitch pattern for clear identification of the various height units.

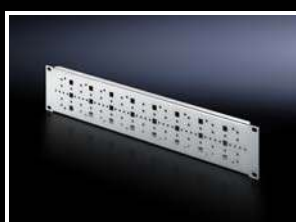
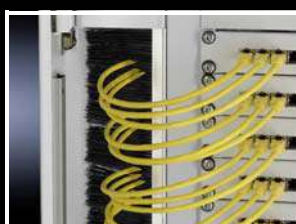
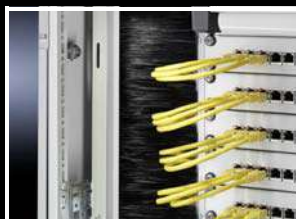
The double-sided labelling allows the counting direction to be freely selected from 1 – 56 U.

Length m	Packs of	Model No.
5	1 pc(s).	5501.895



482.6 mm (19") installation system

482.6 mm (19") installation



Brush strip, vertical

for TS IT, TE

Within the network distributor, this serves as a flexible infill panel which stylishly conceals the cable management area to the side of the 482.6 mm (19") mounting level. The brush strip facilitates convenient cable routing from the side and rear distributor area to the front connection level. The clearance required in front of the mounting level is at least 75 mm.

Within the TS, the brush strip is mounted at the side on the vertical frame section, on horizontal or vertical punched sections. There is an additional mounting option directly on the 482.6 mm (19") mounting frame of the TS IT.

Material:

- Aluminium section with brush strip:
Plastic, UL 94-V0

Supply includes:

- Length 950 mm each

For enclosure height mm	Packs of	Model No.
2000	4 pc(s).	7827.544

Mounting panel 482.6 mm (19"), 2 U

For fast integration of smaller mounting units within the 482.6 mm (19") level, such as potential equalisation rails, distributor boxes, small electrical components etc.

Simple screw-fastening of the components to the integral 25 mm system punchings.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Panel height U	Panel width mm	Packs of	Model No.
2	450	1 pc(s).	7151.300

482.6 mm (19") installation system

482.6 mm (19") installation

Support

for small appliances

For secure attachment of non-482.6 mm (19")-compliant small appliances such as modems, power packs, routers etc. Angular support for mounting in the free space at the side between the 482.6 mm (19") level and the side panel on L-shaped mounting angles, mounting frames or punched sections. Attachment of the components and connection cables can be achieved quickly and easily using nylon tape or cable ties. Also suitable for cable routing in the enclosure depth.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

W x H x D mm	Packs of	Model No.
350 x 150 x 97	1 pc(s).	7246.500



Accessories:

- Nylon loop, see page 785
- Cable ties, see page 785



482.6 mm (19") fastener, 1 U

With contact

For simple screw connection of installation components within the 482.6 mm (19") mounting level. Simply slide onto the mounting angle from the inside and lock home.

Benefits:

- Fast positioning and installation instead of using individual cage nuts
- Integral contacting for potential equalisation
- Preconfigured 1 U support with 3 cage nuts, including centre attachment to standard EIA 310
- Supports multiple dismantling and reuse

Material:

- Sheet steel, zinc-plated

Note:

- All enclosures in the Rittal range have already been tested within their tolerances for the use of 482.6 mm (19") fasteners. Suitability for use in enclosures from other manufacturers cannot be guaranteed.

Thread	Packs of	Model No.
M5	24 pc(s).	2090.000



Also required:

- Assembly screws, see page 816
- Multi-tooth screws 7094.130, see page 816



Cage nuts M5/M6

For the attachment of rack-mounted electronic equipment, 482.6 mm (19") installed equipment and blanking plates to mounting angles, 482.6 mm (19"). For use with metal thickness from 0.8 – 2.0 mm. In areas of narrow tolerance, cage nuts for metal thicknesses of 1.2 – 1.5 mm should be used. Optionally with or without contact of the installed equipment to the 482.6 mm (19") section/enclosure.

Cage nut M5

Version	For metal thicknesses mm	Packs of	Model No.
With contact	0.8 – 2.0	50 pc(s).	2094.500
Without contact	0.8 – 2.0	50 pc(s).	2092.500

Cage nut M6

Version	For metal thicknesses mm	Packs of	Model No.
With contact	0.8 – 2.0	50 pc(s).	2094.200
Without contact	0.8 – 2.0	50 pc(s).	2092.200
With contact	1.2 – 1.5	50 pc(s).	2094.300
Without contact	1.2 – 1.5	50 pc(s).	2092.300



482.6 mm (19") installation system

482.6 mm (19") installation



Multi-tooth screws

M5 x 16 mm/M6 x 16 mm

For optimum transmission of torques, an extended tool life and increased safety and reliability when tightening and loosening screw connections.

Supply includes:

- 50 plastic washers
- 50 assembly screws

	Bit size	Packs of	Model No.
M5	Multi-tooth 25	50 pc(s).	7094.130
M6	Multi-tooth 30	50 pc(s).	7094.140



Assembly screws

M5 x 16 mm/M6 x 16 mm

For electronic equipment, 482.6 mm (19") installed components and blanking plates.

Supply includes:

- 50 plastic washers
- 50 assembly screws

Version	Packs of	Model No.
Phillips-head screw M5	50 pc(s).	7094.120
Cheese-head screw M6	50 pc(s).	7094.110
Phillips-head screw M6	50 pc(s).	7094.100



Front-mounting cage nut, 482.6 mm (19")

The front-mounting cage nut consists of an expanding cage which is simply inserted into the square attachment hole at the front and then secured with the assembly screw.

When tightening the screw, the cage expands and thus secures the required components.

Clamping range from 1.2 – 4.5 mm.
Multi-tooth screw head, bit size T 30.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- 50 expanding cages
- 50 assembly screws
- 50 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 mounting angle

The spring nuts ensure flexible, secure mounting of accessory components on the T-slot mounting angles.

Supply includes:

- 50 spring nuts
- 50 screws, 10 mm, self-locking

Version	Packs of	Model No.
Phillips-head, M6	50 pc(s).	7000.990

482.6 mm (19") installation system

Patch panels

Blanking panel, 482.6 mm (19")

As an extension cover or for population as required.

Material:

- Sheet steel

Colour: RAL 7035

U	Installation height mm	Packs of	Model No.
1	44	2 pc(s).	7151.035
1.5	66	2 pc(s).	7157.035
2	88	2 pc(s).	7152.035
3	132.5	2 pc(s).	7153.035
6	266	2 pc(s).	7156.035

Colour: RAL 9005

U	Installation height mm	Packs of	Model No.
1	44	2 pc(s).	7151.005
2	88	2 pc(s).	7152.005
3	132.5	2 pc(s).	7153.005
6	266	2 pc(s).	7156.005



Blanking panel, 3 U

Tool-free attachment, 482.6 mm (19")

The blanking panel is used to seal unused areas within the 482.6 mm (19") mounting level. Quick tool-free attachment means that it is easily integrated anywhere, and can also be removed again if necessary. The consistent use of blanking panels ensures targeted air routing in partially populated racks.

Benefits:

- Fire protection: Self-extinguishing to UL 94 HB
- May be adjusted individually to size by snapping off prepunched 1 U elements
- Each individual element is self-supporting and may therefore be combined into larger units in conjunction with other elements

Packs of	Model No.
3 pc(s).	7151.305

Material:

- Plastic

Colour:

- RAL 9005

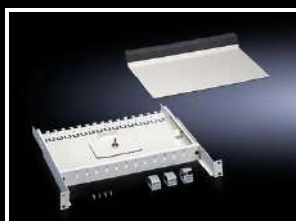
Supply includes:

- Blanking panel, 3 U, with integral quick-fastening



482.6 mm (19") installation system

Splicing boxes



Fibre-optic splicing box, depth-variable

The 482.6 mm (19") splicing box is designed to accommodate splicing cassettes and can be installed in any network distributor with 482.6 mm (19") accommodation and used as a fibre-optic termination or distributor. The variable cassette fixture permits twist-proof installation of all standard splicing cassettes. The rear section of the splicing box is completely open for cable entry; a rubber cable clamp strip provides protection against dust. The fibre-optic cables can be secured with cable ties or cable clamps.

The splicing box is infinitely depth-adjustable up to 100 mm within the 482.6 mm (19") flanges. In addition, the splicing box may be fully withdrawn from the 482.6 mm (19") flanges. Two strain relief clips and cable routing clips for the fibre stock provide a solution to suit any fibre-optic wiring system.

U	Maximum no. of splicing cassettes	Packs of	Model No.
1	2	1 pc(s).	7241.005

Installation depth:

- 302 mm

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 7035

Supply includes:

- Splicing box
- 3 cable routing clips
- Cassette cover
- Mounting accessories for patch panel

Note:

- Supplied without patch panel and splicing cassettes



Also required:

- Patch panels for fibre-optic splicing box, depth-variable, see page 818



Fibre-optic breakout box, 1 U

For splice-free cabling of fibre-optic breakout cables.

Cable bundles may be clamped onto the T-heads at the rear. 4 self-adhesive cable routing clips are supplied loose for cable clamping and for storing excess lengths inside the box.

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 7035

Supply includes:

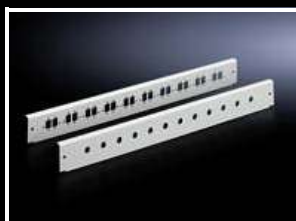
- Breakout box
- Cable routing clips
- Mounting accessories for patch panel

Installation depth	Packs of	Model No.
250 mm	1 pc(s).	7241.500



Also required:

- Patch panels for fibre-optic breakout box, see page 818



Patch panels

for

- Fibre-optic splicing box, depth-variable
- Fibre-optic breakout box, 1 U

With cut-outs for population with fibre-optic couplings.

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 7035

For coupling	No. of locations	U	Packs of	Model No.
E-2000, E-2000 duplex ¹⁾ , SC or LC duplex	24	1	1 pc(s).	7241.024
SC duplex, LC quad	12	1	1 pc(s).	7241.045

¹⁾ For E-2000 duplex, only half of the locations are available

482.6 mm (19") installation system

Splicing boxes

Fibre-optic splicing box with telescopic pull-out

Lockable

The 482.6 mm (19") splicing box is designed to accommodate splicing cassettes and can be installed in any network distributor with 482.6 mm (19") accommodation and used as a fibre-optic termination or distributor. The telescopic pull-out provides optimum access to the splicing cassettes and cable clamp. The variable cassette fixture permits twist-proof installation of all standard splicing cassettes. The security lock fitted at the front protects against unauthorised access. The rear section of the splicing box is completely open for cable entry; a rubber cable clamp strip provides protection against dust. The fibre-optic cables can be secured with cable ties or cable clamps; two strain relief clips and cable routing clips for the fibre stock provide a solution to suit any fibre-optic wiring system.



Also required:

- Patch panels for fibre-optic splicing box, lockable, see page 819

U	Maximum no. of splicing cassettes	Packs of	Model No.
1	2	1 pc(s).	7170.535
2	4	1 pc(s).	7470.535

Installation depth:

- 363 mm

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 7035

Supply includes:

- Splicing box
- 3 cable routing clips
- Security lock
- Cassette cover
- Mounting accessories for patch panel

Note:

- Supplied without patch panel and splicing cassettes



Patch panels

for fibre-optic splicing box, lockable

For splicing boxes, there is a choice of multiple panels with different cut-outs for the installation of single or duplex fibre-optic couplings.

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 7035

Note:

- For E-2000 duplex only half of the locations are available



For coupling	No. of locations	U	Packs of	Model No.
ST	24	2	1 pc(s).	7474.535
E-2000, SC, LC single or duplex	20	1	1 pc(s).	7178.535
	24	2	1 pc(s).	7478.535
SC duplex, LC quad	12	1	1 pc(s).	7169.535
	24	2	1 pc(s).	7469.535

Patch panels

for small fibre-optic distributors

Various patch panels with different connector types are available for individual configuration of small fibre-optic distributors.

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 7035

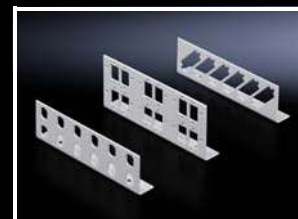
Supply includes:

- Patch panel without couplings
- Assembly parts

Note:

- For E-2000 duplex, only half of the locations are available

For coupling	Locations per patch panel	Locations per enclosure	Packs of	ModelNo.
ST	12	24	2 pc(s).	7462.000
SC, E-2000, E-2000 duplex	12/6	24/12	2 pc(s).	7463.100
SC duplex	6	12	2 pc(s).	7463.200



482.6 mm (19") installation system

LSA technology



Support unit, 3 U

for LSA-Plus strips, max. 150 paired wires

To accommodate a maximum of 15 LSA-Plus strips (each with 10 paired wires). 3 x 5 LSA-Plus connection strips 2/10, series 2, may be installed horizontally. Strip length 124 mm, height pitch pattern 22.5 mm. The support unit may be integrated into all 482.6 mm (19") mounting levels. The mounting front is recessed 75 mm behind the 482.6 mm (19") flanges. Integral shunting rings enable tidy routing and distribution of the telecommunication cables.

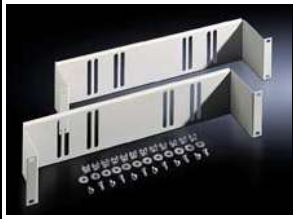
Material:

- Stainless steel

Supply includes:

- Support unit
- 8 shunting rings:

U	Packs of	Model No.
3	1 pc(s).	7050.100



Fixture system, 2 U

For LSA mounting kit

To accommodate LSA support systems within the 482.6 mm (19") mounting level.

Size:

- Overall depth: 98.5 mm
- Height: 2 U

Material:

- Sheet steel

Surface finish:

- Spray-finished

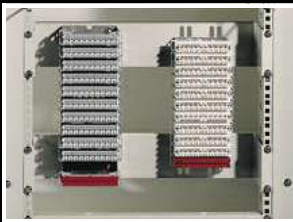
Colour:

- RAL 7035

Supply includes:

- Assembly parts

U	Packs of	Model No.
2	2 pc(s).	7050.035



Handle set

for Comfort Panel

For external mounting on corner pieces, also suitable for retro-fitting.

Material:

- Handle tube: Aluminium
- Handle holder: Die-cast zinc
- Covers: Polyamide

Surface finish:

- Handle tube: Natural anodised
- Handle holder: Powder-coated

Colour:

- Handle holder: RAL 7024
- Covers: Similar to RAL 7024

Supply includes:

- Handle tube, Ø 20 mm
- 2 handle holders
- 2 covers
- Assembly parts

For horizontal mounting

With front panel width	Packs of	Model No.
482.6 mm (19")	1 pc(s).	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 824
- Display board, see page 824



Handle set

for Optipanel

For external mounting on corner pieces, also suitable for retro-fitting.

Material:

- Handle tube: Aluminium
- Handle holder: Die-cast zinc
- Covers: Polyamide

Surface finish:

- Handle tube: Natural anodised
- Handle holder: Powder-coated

Colour:

- Handle holder: RAL 7035
- Covers: RAL 7024

Supply includes:

- Handle tube, Ø 25 mm
- 2 handle holders
- 2 covers
- Assembly parts

For horizontal mounting

With front panel width	Packs of	Model No.
482.6 mm (19")	1 pc(s).	6385.010

Note:

- Shorter heights and widths can be achieved by cutting the handle tube to length
- For enclosures with 100 mm installation depth, cannot be mounted on the same side as the support arm connection



Accessories:

- Clipboard, see page 824
- Display board, see page 824



Handles



Handle set

For vertical and horizontal mounting on all surfaces.

Overall length: 420 mm

Material:

- Handle tube: Aluminium
- Tube holder: Die-cast zinc

Surface finish:

- Handle tube: Natural anodised

Colour:

- Tube holder: RAL 7035

Supply includes:

- 4 tube holders
- 2 handle tubes

Packs of	Model No.
1 pc(s).	2389.000



Accessories:

- Clipboard, see page 824
- Display board, see page 824



TP aluminium strip

For retrofitting externally on:

- TP three-part/two-part
- TP one-piece console
- May be mounted on all enclosures/covers with 20 mm fold height (max. metal thickness 2 mm)

Length: 1750 mm

(easily cut to length for other dimensions)

Sufficient for desk sections and consoles:

- 3 x width 600 mm
- 2 x width 800 mm
- 1 x width 1000 mm + 1 x width 600 mm
- 1 x width 1200 mm
- 1 x width 1600 mm

Length mm	Model No.
1750	6731.120

Material:

- Aluminium strip: Extruded aluminium section
- Cover caps: Plastic

Surface finish:

- Aluminium strip: Natural anodised

Colour:

- Cover caps: RAL 7035

Supply includes:

- 1 aluminium section
- 6 plastic cover caps
- Drilling template
- Assembly parts

Handles

For horizontal or vertical attachment to the enclosure panel of:

- Comfort Panel
- Optipanel
- Other enclosures or
- Surfaces

Mounting holes and surfaces without fins are required for assembly purposes.

For the Comfort Panel version with fins, selectable via configurators at www.rittal.com, corresponding milling work may be carried out. To this end, please specify "Prepared for handle set 6107.XXX" for the command panel.

Material:

- Handle holder: Die-cast zinc
- Cover bungs: Plastic
- Handle tube: Aluminium

Surface finish:

- Handle tube: Powder-coated

Colour:

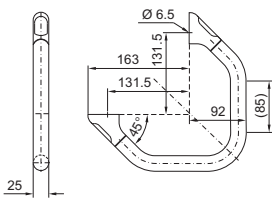
- Handle holder: RAL 7035
- Cover bungs: Similar to RAL 7035
- Handle tube: Similar to RAL 9006

Corner handle

Supply includes:

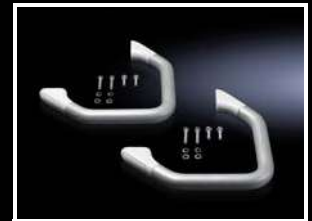
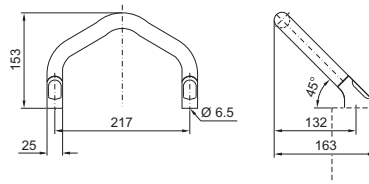
- 4 handle holders
- 2 handle tubes
- Assembly parts

Mounting on enclosure corner



Packs of	Model No.
1 pc(s).	6107.000

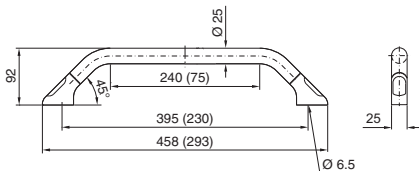
External mounting on straight surface
(90° rotation of handle holder)



U handle

Supply includes:

- 2 handle holders
- 1 handle tube
- Assembly parts

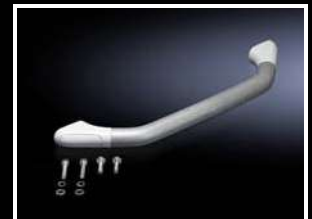


For front panel size	Packs of	Model No.
≥ 7 U	1 pc(s).	6107.100
482.6 mm (19")	1 pc(s).	6107.200



Accessories:

- For 6107.200: Clipboard, see page 824
- For 6107.200: Display board, see page 824



External mounting accessories



Clipboard

For securing operating instructions or plans (A4 size) at eye level.

Prepared for mounting on the right-hand side; mounting on the left is also possible by unscrewing and moving the clip part.

For mounting purposes, a straight tube length of ≥ 200 mm, $\varnothing 20$ mm or $\varnothing 25$ mm is required.

Material:

- Clipboard: Sheet steel
- Clip part: Aluminium

Surface finish:

- Clip part: Natural anodised

Colour:

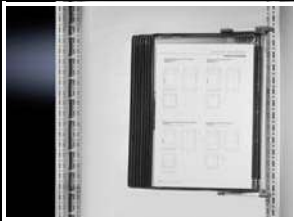
- RAL 7035

Width mm	Height mm	Packs of	Model No.
225	315	1 pc(s).	6013.000



Also required:

- Handle set 2389.000, see page 822 or
- Handle set for Comfort Panel, see page 821 or
- Handle set for Optipanel, see page 821 or
- U handle 6107.200, see page 823



Display board

with wall bracket

To accommodate test plans, documents etc. in A4 format.

Mounting

- On surfaces
- On a 25 mm pitch pattern of the TS frame or rail system
- On handle set $\varnothing 20$ mm or $\varnothing 25$ mm

Supply includes:

- Display board
- Wall bracket
- Assembly parts

Packs of	Model No.
1 pc(s).	6013.100



Accessories:

- Handle set 2389.000, see page 822 or
- Handle set for Comfort Panel, see page 821 or
- Handle set for Optipanel, see page 821 or
- U handle 6107.200, see page 823



Enclosure surface connector

To accommodate keyboard support (2383.000, see page 833).

Material:

- Surface connector: Extruded aluminium section
- Side cover: Sheet steel

Surface finish:

- Surface connector: Natural anodised

Colour:

- RAL 7024

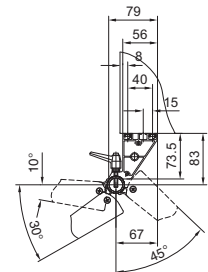
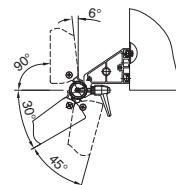
Supply includes:

- Assembly parts

Packs of	Model No.
1 pc(s).	2383.010

External mounting on surfaces

Mounting underneath surfaces



Front assembly

Front panels

for Comfort Panel and Optipanel

Material:

- Aluminium, 3 mm

Surface finish:

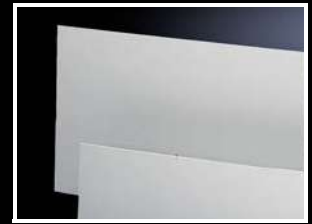
- Natural anodised

Note:

- Mounting kits included with the supply of 520 mm wide standard enclosures.

With threaded bolts M5

Width mm	Height mm	Model No.
482.6 (19")	155.0 (3.5 U)	6027.010
482.6 (19")	310.3 (7 U)	6028.010
520	400	6028.014
520	500	6028.015
520	600	6028.016



Also required:

- Mounting kit for Comfort Panel 6053.800, see page 826
- Mounting kit for Optipanel 6053.000/.500, see page 826

Front panels

for Compact Panel

Material:

- Aluminium, 3 mm

Surface finish:

- Natural anodised

Size W x H mm	To fit Compact Panel	Model No.
178 x 200	6340.000	6028.500
178 x 350	6340.100	6028.510
252 x 200	6340.300	6028.530
252 x 350	6340.400	6028.540



Cover plate

for support arm connection

For secure sealing of an unrequired support arm connection in the enclosure.

Material:

- Sheet steel

Supply includes:

- Seal and assembly parts

Note:

If with

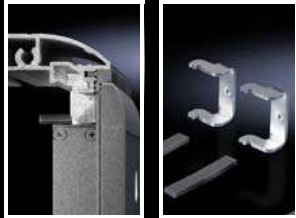
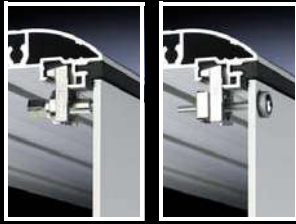
- Comfort Panel
- Optipanel
- Compact Panel

If there are already 2 support arm cut-outs provided, a cover plate is included with the supply of the enclosure

Support arm connection	Surface finish	Model No.
□ 90 x 71 mm	Spray finished in RAL 7024	6505.200
∅ 130 mm	Zinc-plated, passivated	6505.500
□ 120 x 65 mm	Zinc-plated, passivated	6505.100



Front assembly



Mounting kit

for Optipanel

- For installation of
- Aluminium front panels
 - Command panels
 - Keyboards

for drilled holes

Supply includes:

- Packs of 30 retaining claws, cage nuts, screws and sealing washers

for threaded bolts

Supply includes:

- Packs of 10 retaining claws and cap screws

for screw clamp

Supply includes:

- Packs of 4 pressure plates, 4 attachment strips

Note:

- The command panels MP 377 12" Touch, MP 377 15" Touch are installed using an adaptor plate

For front panels	Thread	Model No.
Others	M4	6058.000
Rittal and others	M5	6053.000

For front panels	Thread	Model No.
Others	M4	6058.500
Rittal and others	M5	6053.500¹⁾

¹⁾ For the installation of TFT monitors 15", 17" and 19"

For direct installation of	Model No.
Siemens Sinumerik: OP 010, OP 010C, OP 012, OP 015, OP 019, MCP 483, PP 012, Qwerty 19", KB 483C, TP 015A	6053.210
Siemens Simatic: Panel PC 477C, 577C, 677C: 12.1" Touch, 15.1" Touch, 12.1" Key, 15.1" Key, 19" Touch ¹⁾ , 22" Touch ¹⁾ , Flat Panel ¹⁾ 12", 15", 19"	
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	

The mounting set can only be installed vertically

¹⁾ 2 packs are required



Mounting kit

for Comfort Panel

For the installation of aluminium front panels, command panels and keyboards.

Supply includes:

- 6053.800:
20 each of retaining claws, cage nuts, screws, nuts and sealing washers
- 6053.300:
8 medium retaining claws, 8 short retaining claws, 4 long retaining claws

1 6053.800

2 6053.300

For drilled holes/bolts/front panel mounting from behind

Thread	Model No.
M5	6053.800

For screw clamp

For 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

TFT monitor

Installation variant for surfaces and command panels.

Benefits:

- High-quality industrial design
- Reduced installation work thanks to integral front frame
- No additional ventilation required
- Very small installation depth (45 mm)
- Resistive touchscreen for operation with a pen, finger or glove

Material:

- Front frame: Aluminium

Surface finish:

- Powder-coated

Colour:

- RAL 7035

Protection category IP to IEC 60 529:

- IP 65 (at the front)

Supply includes:

- Seal, hex nuts (for installation in surfaces), VGA cables, rear threaded bolts M5 (14). Touch variants additionally with integral connection cable and CD-ROM driver

Size	Width mm	Height mm	Model No.	
			Touch	
			Without ¹⁾	Resistive, USB
15"	430	343	6450.010	6450.070
17"	482.6	354.8	6450.020	-
19"	482.6	399.3	6450.170	-

¹⁾ With anti-reflection coated safety glass screen

Note:

- Other variants as resistive touchscreen with serial or USB interface are also possible



Also required:

- Mounting kit 6053.800 (when installing in Comfort Panel), see page 826
- Mounting kit 6053.500 (when installing in Optipanel), see page 826
- Power pack 6450.050, see page 827 and
- Connection cable 6450.060, see page 827, if an operating voltage of only 100 – 240 V is available instead of 12 V (DC)

Technical specifications	15"	17"	19"
Resolution of display (max. pixels)	1024 x 768	1280 x 1024	1280 x 1024
Resolution of controller/million colours	VGA-XGA/16.2	VGA-SXGA/16.7	VGA-SXGA/16.2
Brightness cd/m ²	400	350	250
Contrast ratio	700:1	1000:1	500:1
H-Sync. kHz/V-Sync. Hz	31.4 – 80/60 – 75	31.4 – 80/60 – 75	31.5 – 80/60 – 75
Reading angle horizontal (right/left)	80°/80°	85°/85°	88°/88°
Reading angle vertical (top/bottom)	70°/70°	80°/80°	88°/88°
Backlight/operating time h	LED/min. 50,000	LED/min. 50,000	Tubes/min. 40,000
On-screen display (OSD)	Operating buttons on the rear		
VGA input/DVI-D	D-SUB HD 15-pole/DVI-D jack		
Rated voltage V (DC)	12		
Power consumption (W)	15	20	40
Operating temperature/storage temperature	0°C...+50°C/ -40°C...+85°C	0°C...+50°C/ -30°C...+85°C	0°C...+50°C/ -20°C...+60°C
Max. humidity during operation and storage, non-condensing	90% relative humidity for 240 h	80% rel. humidity for 300 h at 50°C	80% relative humidity

Power pack

for TFT monitor

- With IEC 60 320 connector C14 for C13 connection
- With cable (1.5 m) for connecting to the TFT monitor

Dimensions, W x H x D: 112 x 31 x 47 mm

Technical specifications:

- Input voltage: 100 – 240 V
- Output voltage: 12 V (DC)
- Operating temperature: 10°C...40°C
- Storage temperature: 10°C...40°C

Packs of	Model No.
1 pc(s).	6450.050

Material:

- Housing: Plastic

Connection cable

for power pack

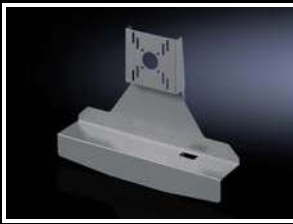
With IEC 320 socket C13 at one end for C14 connectors.

Length: 1.5 m

Packs of	Model No.
1 pc(s).	6450.060



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 179
- Attachment CP 60 for support arm connection
 - 120 x 65 mm, 6206.360, see page 187
- Vertical support arm via tilting adaptor +100°/-60°, 6206.460, see page 187

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 7024

Dimensions mm	Packs of	Model No.
477 x 372 x 110.5	1 pc(s).	2383.030

Keyboard, pull-out

with integral trackball

Super-slimline keyboard with cursor keys and trackball. The handle also serves as a hand rest. The 10° angled pullout ensures ergonomic working.

For installation in:

- Any sufficiently large surface (e.g. door, side panel)
- Front panels
- Directly in a suitably sized Comfort Panel and Optipanel, selectable via configurators at www.rittal.com

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: +5°C...+50°C
- Storage temperature: -10°C...+60°C
- Humidity: max. 95% (non-condensing)

Keyboard layout	Packs of	Model No.
German	1 pc(s).	6002.130

Material:

- Sheet steel

Surface finish:

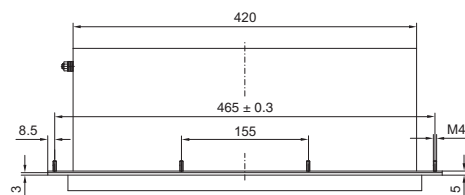
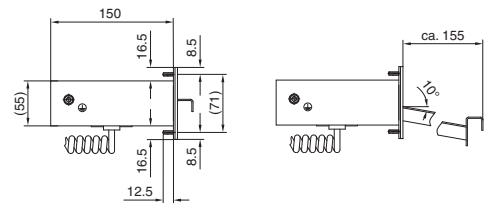
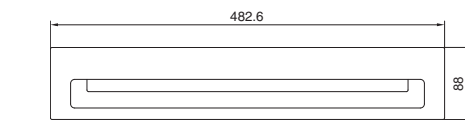
- Front panel: Powder-coated

Colour:

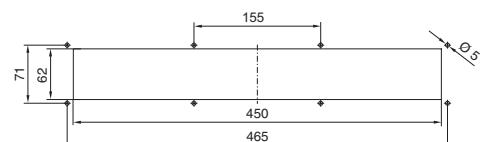
- RAL 7035

Protection category IP to IEC 60 529:

- IP 65 (at the front, sealed)



Mounting cut-out



Keyboards, supports and drawers

Built-in keyboard 482.6 mm (19")/4 U

with integral touchpad

The integral touchpad eliminates the need to install an additional, correct protection category mouse, which in turn reduces cabling. The short stroke keys are easily identified by edge embossing, less force is required to operate them, and they have a good tactile action.

Benefits:

- The separate number pad enables the parameters to be entered quickly
- Sealed, wipeable surface finish
- High level of mechanical and chemical resistance as per DIN 42 115

Technical specifications:

- Number of keys: 105
- Front panel dimensions:
482.6 x 177.0 mm (19" x 4 U)
- Keyboard depth: 30 mm
- Installation depth: 27 mm
- 12 M5 x 20 threaded bolts at the rear
- Actuation travel/force: 0.3 mm/2.6 N
- Service life: 3 million switching cycles
- Operating temperature: -40°C...+90°C
- Touchpad resolution, capacitive: 40 pixels/mm
- Interfaces: USB

Material:

- Front panel: Aluminium

Protection category IP to IEC 60 529:

- IP 65 (at the front)

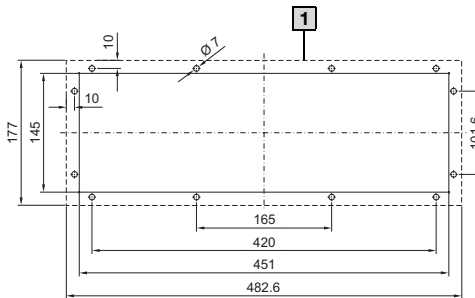
Supply includes:

- USB connection cable, length 1.8 m
- Seal
- Drilling template
- Assembly parts for surfaces

Keyboard layout	Packs of	Model No.
German	1 pc(s).	6446.030

! Also required:

- Mounting kit 6053.800 (when installing in Comfort Panel), see page 826
- Mounting kit 6053.500 (when installing in Optipanel), see page 826



1 Support surface



Fold-out tray

for keyboard and mouse

For installation in

- 600 and 800 mm wide doors
- 482.6 mm (19") swing frames and enclosures

Standard double-bit lock insert may be exchanged for lock inserts 27 mm, version A, see page 680 and for lock cylinder 2571.000, see page 681

Material:

- Flap: Sheet steel
- Side parts: Cast aluminium
- Tray: Extruded aluminium section

Surface finish:

- Flap, side parts: Textured paint
- Tray: Natural anodised

Colour:

- Cover, side parts: RAL 7035

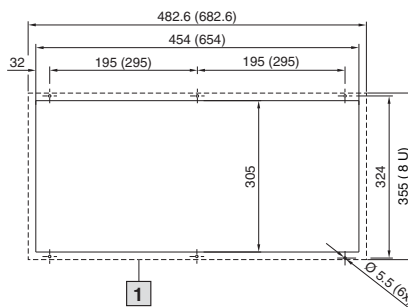
Protection category IP to IEC 60 529:

- IP 55 to IEC 60 529

+ Accessories:

- Mousepad support, pull-out, see page 830

Mounting cut-out



1 Support surface



For door width mm	External dimensions W x H x D mm	Installation depth mm	Max. keyboard dimensions W x H x D mm	Model No.
600	482.6 (19") x 355 (8 U) x 126	93	405 x 50 x 250 405 x 50 x 195 ¹⁾	2379.600
800	682.6 x 355 (8 U) x 126	93	605 x 50 x 250 605 x 50 x 195 ¹⁾ 475 ¹⁾ x 50 x 250	2379.800

¹⁾ Maximum keyboard size with holder for mouse

Keyboards, supports and drawers



Support for mousepad, pull-out with mouse holder

For screw-fastening into the fold-out tray 2379.600/2379.800, see page 829.
To fit all standard mousepads up to 250 x 205 mm.

Colour:

- RAL 7035

Supply includes:

- Assembly parts

Packs of	Model No.
1 pc(s).	2379.900



Support

For keyboards

Up to a max. of 473 x 210 mm.

Prepared for

- Cable gland
- Mousepad support, vertically hinged 2383.020

Material:

- Side parts: Sheet steel
- Front and rear: Extruded aluminium section

Surface finish:

- Side parts: Textured paint
- Front and rear: Natural anodised

Colour:

- Side parts: RAL 7024

Supply includes:

- 2 clamping screws, end stoppers, cover plate, cable entry grommet and nylon tape

Packs of	Model No.
1 pc(s).	2383.000



Also required:

- For external mounting on surfaces using enclosure surface connectors, see page 824



Accessories:

- Mousepad support, vertically hinged, see page 834



Utility bars, vertically hinged

To support standard keyboards during programming and servicing work.

Mounting distance of utility bars for problem-free insertion: at least 300 mm.

Depth adequate for keyboards up to max. 210 mm.

For mounting beneath

- Comfort Panel¹⁾
- Optipanel²⁾
- Any sufficiently large surface, such as:
 - Worktops IW
 - Command panels with handle strips

on

- Vertical surfaces (doors/side panels)

Min. front panel width

¹⁾ 385 mm

²⁾ 405 mm

After use, the utility bars fit securely and neatly under the mounting surface, thus giving the operator more space to move around.

Packs of	Model No.
2 pc(s).	6514.200

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts



Keyboards, supports and drawers

Drawer 482.6 mm (19")/2 U for keyboard and mouse

For installation in:

- Any sufficiently large surface (e.g. door, side panel)
- 482.6 mm (19") system punchings
- Front panels
- Directly in a suitably sized Comfort-Panel or Optipanel, selectable via configurators at www.rittal.com

Suitable for

- Accommodation of keyboards up to max. 390 x 32 x 139 mm
- Support of standard commercially-available mouse or trackball

Design:

- Drawer: With stay
- Front panel: With security lock (lock no. 12321) and handle strip

Width mm	U	Depth mm	Model No.
482.6 (19")	2	150	6002.000

Material:

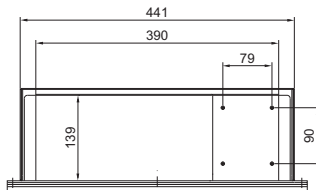
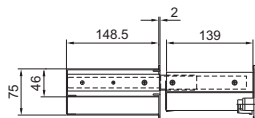
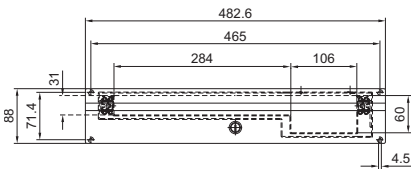
- Drawer housing: Sheet steel
- Drawer and front panel: Aluminium

Surface finish:

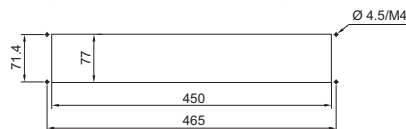
- Drawer housing: Zinc-plated
- Drawer and front panel: Natural anodised

Supply includes:

- Assembly parts for installation in Comfort Panel/Optipanel command panels



Mounting cut-out
(for installation in surfaces)



Keyboards, supports and drawers



Drawer for keyboard and mouse

with mousepad support

For installation in:

- Any sufficiently large surface (e.g. door, side panel)
- Front panels

Suitable for accommodating

- Keyboards up to a maximum of 460 x 42 x 170 mm
- Standard mouse and mousepad

Design:

- Drawer and housing: With side pull-out mousepad support and tray
- Front panel: With 3 mm double-bit lock insert, folds out as handrest

Width mm	U	Depth mm	Model No.
482.6 (19")	3.5	261	6003.000

Material:

- Drawer and enclosure: Sheet steel
- Front panel: Aluminium

Surface finish:

- Drawer and housing: Textured paint
- Front panel: Natural anodised.

Protection category IP to IEC 60 529:

- IP 54

Supply includes:

- Assembly parts

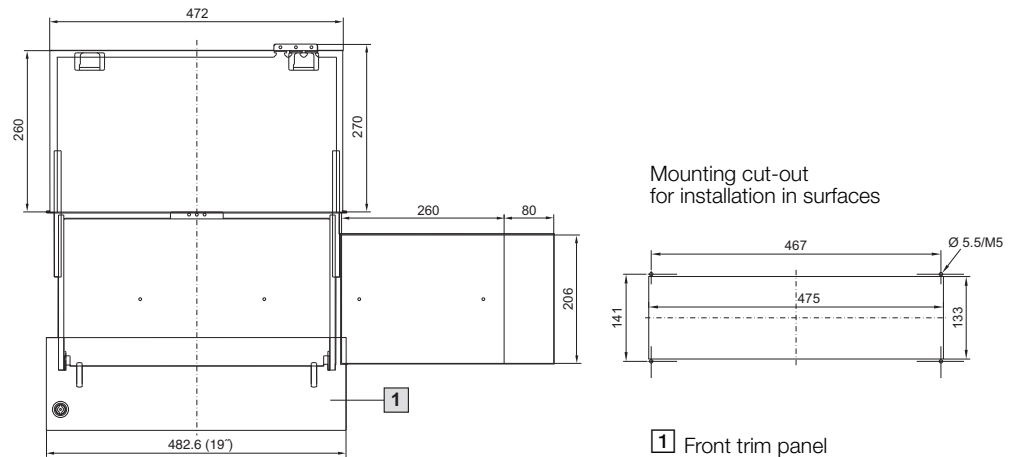
Note:

- Not suitable for installation in a 482.6 mm (19") frame



Accessories:

- Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, see page 680



1 Front trim panel



Keyboard drawer 1 U

for two 482.6 mm (19") mounting levels

This space-saving keyboard drawer is screw-fastened to the front and rear 482.6 mm (19") mounting levels. The installation spacing is infinitely adjustable from 460 – 800 mm. It is fully extendible, lockable, with strain relief and hinged cable support. The drawer is suitable for accommodating 482.6 mm (19") keyboards.

Interior dimensions:

- W x H x D approx. 420 x 40 x 220 mm

Material:

- Sheet steel

Colour:

- RAL 7035

Supply includes:

- Assembly parts, excluding keyboard

Note:

- Monitor/keyboard unit, 1 U, see page 563

Distance between levels mm	Model No.
460 – 800	7281.200

Keyboards, supports and drawers

Keyboard drawer 2 U

for one 482.6 mm (19") mounting level

For keyboards up to 430 mm wide and 250 mm deep with the front panel folded over.

Material:

- Sheet steel with aluminium front

Surface finish:

- Spray-finished

Colour:

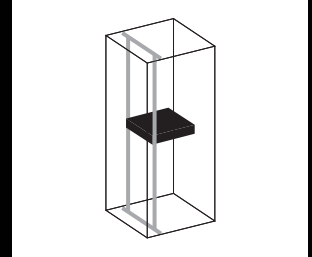
- RAL 7035

Supply includes:

- Lockable drawer with handles
- Folding front
- Pull-out mousepad
- 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 mousepad

for command panels and surfaces

The angle of the mousepad support is individually adjustable. Two holes are needed on the enclosure for attachment purposes.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Weight kg	Packs of	Model No.
1.0	1 pc(s).	2381.000



Accessories:

- Holder for mouse, see page 834



Keyboard support

for command panels or surfaces

Benefits:

- Adjustable to different keyboard depths via a simple slide function
- Connection to command panels with support arm connection at the top or bottom
- Easily adjustable tilt angle
- Open support at the side prevents dirt from being deposited

Installation options:

- Command panels with handle strips
- Command panel for desktop TFT up to 24"
- External mounting on vertical surfaces and beneath horizontal surfaces

Technical specifications:

- Support surface fully depth adjustable from 128 – 228 mm

Material:

- Sheet steel
- Handrest: Extruded aluminium section

Surface finish:

- Textured paint
- Handrest: Natural anodised

Colour:

- RAL 7035

Width mm	Weight kg	Packs of	Model No.
430	3.0	1 pc(s).	6321.010

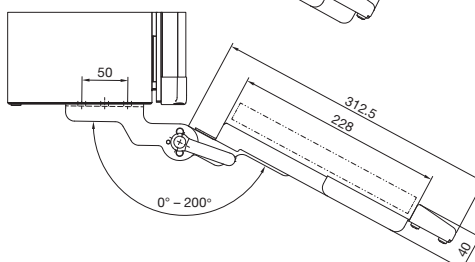
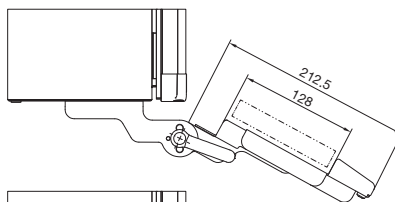
Supply includes:

- Support fully preassembled
- Nylon tape for attaching the keyboard
- Assembly parts



Accessories:

- Mousepad support, vertically hinged, see page 834



Keyboards, supports and drawers



Mousepad support, vertically hinged

For mounting on the left/right, beneath the keyboard support. Latches home automatically, both when retracted and extended. With mounting holes for holder for mouse 2382.000.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

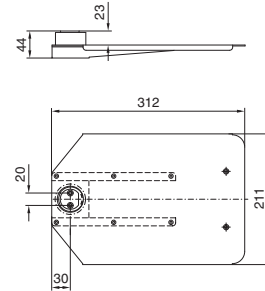
- Assembly parts and mousepad, stuck on with adhesive



Packs of	Model No.
1 pc(s).	2383.020

+ **Accessories:**

- Holder for mouse, see page 834



Holder for mouse

To fit mousepad support and for secure accommodation of a standard mouse.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Weight kg	Packs of	Model No.
0.3	1 pc(s).	2382.000

! **Also required:**

- Mousepad support, see page 833 or
- Mousepad support, vertically hinged, see page 834



Paper removal flap

For installation in surfaces

Facilitates easy removal of pages from the printer without opening the enclosure door. Acrylic glazed flap with magnetic lock.

Paper removal flap	Colour RAL	Packs of	Model No.
A4	7015	1 pc(s).	6903.200



Base

for tubular door frame

The space-saving alternative instead of component shelves to accommodate tower PCs (maximum 20 kg). For screw-fastening to the tubular door frame of 600 mm wide enclosures based on TS.

Load capacity:

- 20 kg

Material:

- Sheet steel

Surface finish:

- Spray-finished

Colour:

- RAL 7015

Supply includes:

- Retaining strap and assembly parts

Width x height x depth mm	Packs of	Model No.
445 x 159 x 230	1 pc(s).	6902.950

! **Also required:**

- TS support strips for direct screw-fastening to the tubular door frame, see page 685

Interface extension with wall connection and built-in RJ 45 module

For extending the internal enclosure interfaces – e.g. of industrial PCs and switches – up to the outside of the enclosure. The wall connection only needs the same space as a switch.

Benefits:

- Rapid access for maintenance work
- The protection category of the enclosure is preserved
- The lock nut cuts automatically into the spray-finish or eloxal layer, thereby creating a conductive connection
- Captive protective cap

Material:

- Housing: Brass
- Cover: Aluminium
- Seal: Polyamide

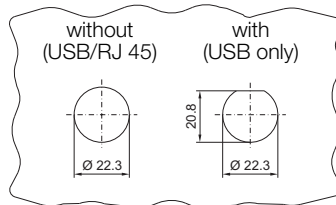
Surface finish:

- Enclosure: Nickel-plated
- Cover: Natural anodised

Protection category IP to IEC 60 529:

- IP 66/67 (with protective cap closed)

Anti-twist guard



Material thickness: 1 – 6 mm



Version	Wall connection	Inside	Length m	Packs of	Model No.
USB	Type A jack	Type A connector	0.5	1 pc(s).	2482.210
			1.0	1 pc(s).	2482.220
			2.0	1 pc(s).	2482.230
RJ 45	Jack	Connector	0.5	1 pc(s).	2482.700
			1.0	1 pc(s).	2482.710
			2.0	1 pc(s).	2482.720
RJ 45	Jack	Jack	–	1 pc(s).	2482.730

Interface flap

For RC circuit-breakers

According to standard EN 60 204-1, all circuits with a rated current of ≤ 20 A that supply sockets in or on machine enclosures must be fused with a residual-current circuit-breaker with a rated differential current of ≤ 30 mA. Prepared for the installation of standard, 2-pole RCBO circuit-breakers.

Applications:

- As programming interface for controllers
- As maintenance access for networks
- For temporary connection of additional equipment
- For quick connection to existing network structures
- For programming and maintenance of integral components

Design:

- Spring-action terminals max. 2 x 2.5 mm, connection at rear

Benefits:

- Protection against fault currents and overload
- Standard-compliant fuse to EN 60 204
- The RC switch may be reset without opening the enclosure
- Spring mechanism raises the unlocked cover by 30°, ensuring that you do not forget to close the cover

Functions:

- A snap fastener ensures reliable sealing. This may be locked if required.

Material:

- Mounting frame: Plastic PBT (black)
- Plastic flap: Polycarbonate (semi-transparent)

Protection category IP to IEC 60 529:

- IP 65

Supply includes:

- Interface flap, complete, consisting of plastic frame, socket (VDE), RJ 45 (jack/jack, Cat 5e) and cut-out for RC circuit-breaker
- Knockout provided for USB A (jack/jack)
- 3 mm double-bit with slot-in rotary knob

Note:

- Interface flap may only be used with fitted RC circuit-breaker



Width mm	Height mm	Required mounting cut-out mm	Installation depth mm	Rated operating voltage V, ~, Hz	Rated current A	Packs of	Model No.
131	127	117 x 91	70	250, 1~, 50/60	10 – 16	1 pc(s).	2482.600

Interfaces



Interface flaps, modular

For universal use in all situations where rapid access to interfaces and sockets is needed. The affected enclosure remains closed and is therefore protected from ambient influences and unauthorised access.

Space-saving installation e.g.

- in **small enclosures and compact enclosures** as a programming interface for controllers
- in **IT and industrial distributors** as maintenance access for networks
- in **PC enclosures and console systems** for the temporary connection of additional equipment
- in mobile **industrial workstations** for rapid connection to existing network structures
- in **command panel systems** for programming and maintenance of integral components

The mounting frame has a flap which snaps into position at various opening angles from 90 to 180°. A snap fastener ensures reliable sealing. This may be locked if required.

Material:

- Mounting frame and metal flap: Die-cast zinc
- Plastic flap: Polycarbonate (semi-transparent)
- Lock: Polycarbonate, RAL 7024

Surface finish:

- Mounting frame and metal flap: Matt nickel-plated

Colour:

- Lock: RAL 7024

Protection category IP to IEC 60 529:

- IP 65 (with sealed flap and proper assembly)

Description	cUR	UR	Packs of	Model No.
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), spring-action 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, colour: yellow (RAL 1016), for installation in front of master switch			1 pc(s).	2482.410³⁾
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] RJ45 (jack/jack, Cat. 5e), SUB-D9 (jack/jack), SUB-D9 (pin/pin)	■	■	1 pc(s).	2482.550
[10] 2 x RJ45 (jack/jack, Cat. 5e)	■	■	1 pc(s).	2482.560²⁾
[11] USB A (jack/jack), RJ45 (jack/jack, Cat. 5e), SUB-D9 (jack/pin)	■	■	1 pc(s).	2482.570²⁾
[12] Blanking plate (slimline), for individual population, usable area: 45 x 75 mm	■	■	1 pc(s).	2482.590

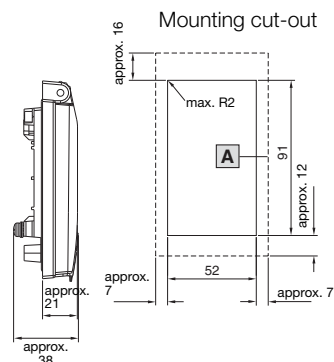
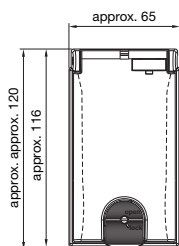
¹⁾ Electrically conductive

²⁾ Conductively linked to mounting frame

³⁾ Rated voltage: 250 V, rated current: 10 – 16 A

All SUB-D interfaces may be rotated while in use

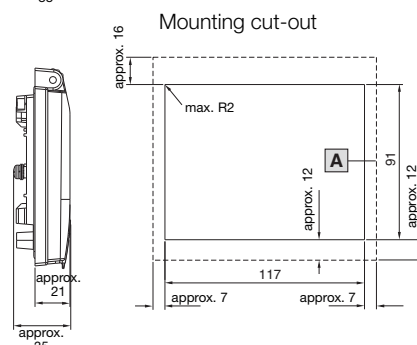
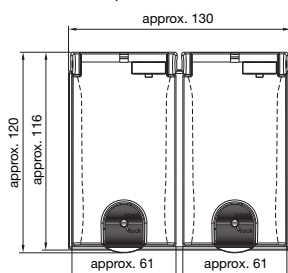
Interface flap, single



Permissible material thickness: 1 – 5 mm

A Contact surface

Interface flap, double



Signal pillars, LED compact

Benefits:

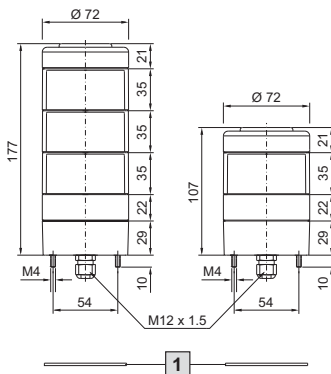
- Complete, ready-to-connect solution
- Minimal build height
- Extremely long service life of the LEDs (at least 70,000 h), therefore maintenance-free
- Minimal assembly work and warehousing costs

Technical specifications:

- Operating voltage: 24 V AC/DC
- Electrical connection: Screw clamps
- Light: LED
- Transmission angle: $3 \times 120^\circ$
- Operating temperature: $-20 \dots +70^\circ\text{C}$
- Flashing function: Controllable via PLC
- Cable entry: Metric screwed cable gland M12 x 1.5 for cable diameter 3.0 – 6.5 mm

Protection category IP to IEC 60 529:

- IP 65



1 Seal

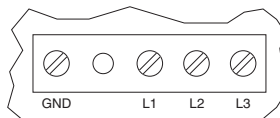
Version	Packs of	H mm	Model No.
3-stage, red, yellow, green	1 pc(s).	177	2372.100
1-stage, red	1 pc(s).	107	2372.130

! Also required:

- For wall mounting: Bracket for wall mounting, see page 841
- For conduit mounting/support arm systems: Busbar connection adaptor, see page 837
- Other mounting components, see page 841/842



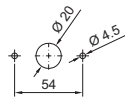
Connection plan 2372.100/.130



GND - 0 V (Ground)

L1 - L3 - +24 V (DC) (LED light stages, from bottom to top, unneeded contacts are left free)

Mounting cut-out



Connection adaptor

for signal pillar, LED compact

For conduit mounting and mounting on support arm systems.

Material:

- Plastic

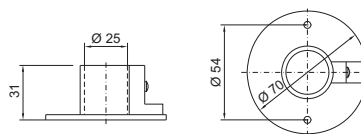
Colour:

- Black

Packs of	Model No.
1 pc(s).	2372.120

+ Accessories:

- Mounting components for conduit mounting, see page 842
- Mounting components for support arm system, see page 841



Signal pillars



Signal pillars, modular

Benefits:

- Simple assembly and contact via bayonet fastener
- Configuration of up to five components with the same voltage
- Flashing and stroboscopic light element incl. lamp, suitable for direct use
- Components are available in a range of colours and voltages

For modular configuration of

- Connection components
- Optical components
- Incandescent lamps
- Acoustic components
- Label panel



Connection component

for signal pillars, modular

- Optionally for conduit or wall/base mounting
- Screw terminals in the connection component
- With cover for optical components
- Contact hazard protection to VDE

Material:

- Enclosure of polyamide

Colour:

- Black

Protection category IP to IEC 60 529:

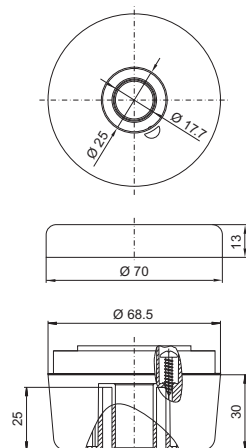
- IP 54

Connection component	Model No.
for conduit mounting	2368.000
for wall/base mounting	2368.010

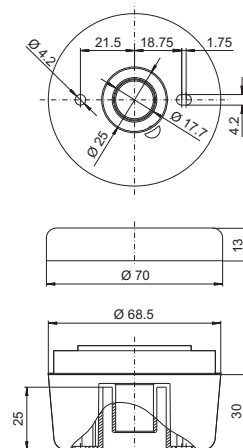
+ Accessories:

- Mounting components for wall/base mounting, see page 841
- Mounting components for conduit mounting, see page 842
- Mounting components for support arm system, see page 841

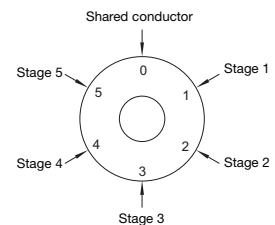
Connection component for conduit mounting
2368.000



Connection component for wall/base mounting
2368.010



Connection diagram



1 Seal

Optical components

for signal pillars, modular

- With 360° signal transmission thanks to optimised prism system
- No. of potential stages = 5 components, with identical voltage

Material:

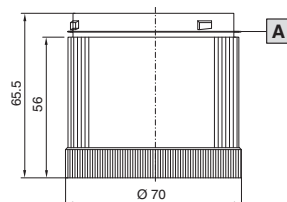
- Housing: Polyamide
- Cap: Transparent polycarbonate

Protection category IP to IEC 60 529:

- IP 54 if a cover or acoustic component is fitted at the top

! Also required:

- Incandescent lamps for steady light component, see page 839



A Pre-configured seal

1 Steady light component 12 – 240 V AC/DC¹⁾

Model No.				
Red	Green	Yellow	Clear	Blue
2369.000	2369.010	2369.020	2369.030	2369.040

¹⁾ Incandescent lamps not included with the supply

2 LED steady light component 24 V AC/DC, 25 mA

Model No.				
Red	Green	Yellow	Clear	Blue
2372.000	2372.010	2372.020	2372.030	2372.040

3 LED steady light component 230 V

Model No.				
Red	Green	Yellow	Clear	Blue
2370.150	2370.160	2370.170	–	–

4 LED stroboscopic light component 24 V AC/DC

Model No.				
Red	Green	Yellow	Clear	Blue
2370.500	2370.510	2370.520	2370.530	2370.540

5 LED stroboscopic light component 230 V

Model No.				
Red	Green	Yellow	Clear	Blue
2370.550	2370.560	2370.570	–	–

6 Stroboscopic light component 24 V (DC), 125 mA

Model No.				
Red	Green	Yellow	Clear	Blue
2371.000	–	2371.020	–	–

7 Stroboscopic light component 230 V DC, 15 mA

Model No.				
Red	Green	Yellow	Clear	Blue
2371.050	–	2371.070	–	–

Incandescent lamps

for steady light components

With BA 15d base/plinth.

Incandescent lamp	Packs of	Model No.
24 V, 5 W	3 pc(s).	2374.060
230 V, 5 W	3 pc(s).	2374.070



Signal pillars



Acoustic components

for signal pillars, modular

To indicate warnings or malfunctions.

Material:

- Housing: Polyamide

Colour:

- Black

Note:

- For mounting only on the upper end of the optical components or directly on the connection component

24 V AC/DC

Acoustic components	Packs of	Model No.
85 dB ¹⁾ max. 25 mA	1 pc(s).	2376.000
100 dB ²⁾ max. 25 mA	1 pc(s).	2376.010

¹⁾ Continuous tone or pulsating

²⁾ Volume and 8 tones may be set

230 V

Acoustic components	Packs of	Model No.
85 dB ¹⁾ max. 25 mA	1 pc(s).	2376.020
100 dB ²⁾ max. 25 mA	1 pc(s).	2376.030

¹⁾ Continuous tone or pulsating

²⁾ Volume and 8 tones may be set



Label panel

for signal pillars, modular

For text additions for up to 5 optical components, with break point for any fields that are not required (50 x 150 mm), including clamping section for base or conduit with a diameter of 25 mm.

Material:

- Acrylic, transparent

Label panel	Model No.
for 5 optical components	2374.150

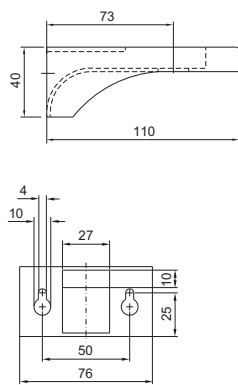
Mounting components for wall/base mounting

Fig.	Mounting component	Colour	Suitable for signal pillar		Model No.
			LED compact	Modular	
1	Bracket for wall mounting, including rubber gland for concealed cable routing	black	■	–	2372.110
2	Bracket for connection component	black	–	■ ¹⁾	2374.040
3	For side cable outlet	black	–	■ ¹⁾	2374.080

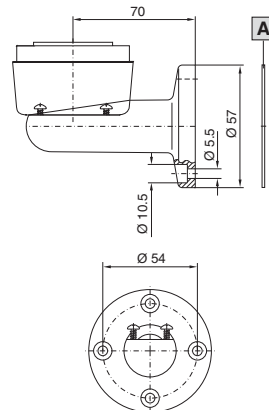
! Also required:

- ¹⁾ Connection component 2368.010, see page 838

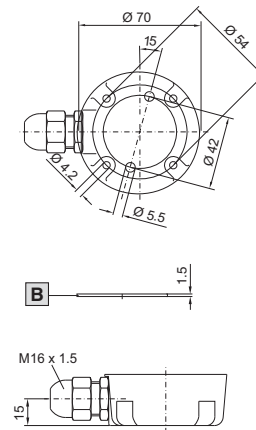
Bracket for wall mounting



Bracket for connection component



For side cable outlet



A Seal
B Flat seal

Mounting components for support arm systems

For external mounting of a signal pillar on the plastic cover of the support arm components.

Fig.	Mounting component	Colour	Suitable for signal pillar		Model No.
			LED compact	Modular	
4	For support arm system CP 40, steel – Angle piece 90° 6501.140	RAL 7024 (graphite grey)	■ ¹⁾	■ ²⁾	2375.030
5	For support arm system CP 60 – Angle adaptor 90° for support arm combination CP 60 to CP 40 6206.640 – Angle coupling 90° 6206.380 – Angle piece 90° 6206.600 – Intermediate hinge 6206.620 – Wall mounted hinge 6206.740 – Top mounted joint 6206.700	RAL 7024 (graphite grey)	■ ¹⁾	■ ²⁾	6206.900
6	For support arm system CP 120 – Angle coupling 90° 6212.380 – Angle piece 90° 6212.600 – Intermediate hinge 6212.620 – Wall-mounted hinge 6212.740 – Top-mounted joint 6212.700	RAL 7024 (graphite grey)	■ ¹⁾	■ ²⁾	6212.900
	For support arm system CP 180 – Angle piece 90° 6218.700 – Top-mounted joint 6218.700	RAL 7024 (graphite grey)	■ ¹⁾	■ ²⁾	6212.900

! Also required:

- ¹⁾ Connection adaptor 2372.120, see page 837
- ²⁾ Connection component 2368.000, see page 838



Signal pillars

Mounting components for conduit mounting

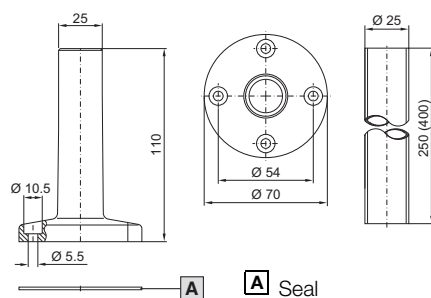
Fig.	Mounting component	Colour	Suitable for signal pillar		Model No.
			LED compact	modular	
8	Base with integral conduit, Ø 25 mm, 110 mm long	black	■ ¹⁾	■ ²⁾	2374.000
9	Individual base	black	■	■	2374.010
10	Individual conduit, 250 mm long	Aluminium	■ ¹⁾	■ ²⁾	2374.020
	Individual conduit, 400 mm long	Aluminium	■ ¹⁾	■ ²⁾	2374.030
11	Angle bracket for conduit mounting	black	■	■	2374.050

! Also required:

- ¹⁾ Connection adaptor 2372.120, see page 837
- ²⁾ Connection component 2368.000, see page 838



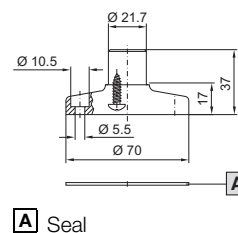
Base with integral conduit



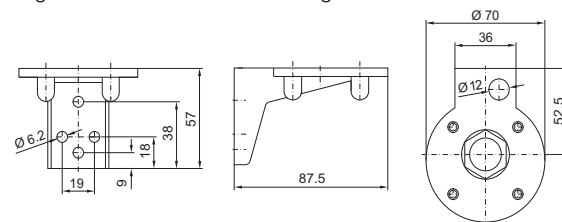
Individual conduit



Individual base, plastic



Angle bracket for conduit mounting



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