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Rittal – The System.

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System Accessories

Base/Plinth

Flex-Block Base/Plinth System	424
TS Base/Plinth	426
Base/Plinth	433

Base

Base	435
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Walls

Sidewalls	450
Partition Walls	453
Interconnect Kit	458

Baying Systems

Baying	460
--------------	-----

Doors/Locks

Door Models	467
Expansion Accessories for TS Modular Front Design	469
Viewing Windows/Operating Panels	473
Lock Systems	478
Hinges	492
Door, External/Internal	493

Roof/Wall Mounting

Roof	499
Wall Mounting	503

Interior Fittings

Mounting Plates	507
Rail Systems	514
Assembly Components	533
Component Shelves	540
System Lights	545
EMC	551
Interior Fittings for Areas at Risk of Earthquake	554
Grounding	555

Cable Routing

Cable Entry	561
Flange Plates	564
Cable Gland	568
Cable Gland	569
Cable Management	572
Cable Routing 19"	582

19" Installation System

Pivoting Frame	587
Accessories for Data Rack	591
Profile Rails	592
Slide Rails	596
19" Fittings	598
Patch Panels	603
Splicing Boxes	604

Human/Machine Interface

Handles	605
External Mounting Accessories	607
Front Fittings	608
Keyboards, Supports and Drawers	610
Interfaces	617
Signal Pillars	619

Technical Information

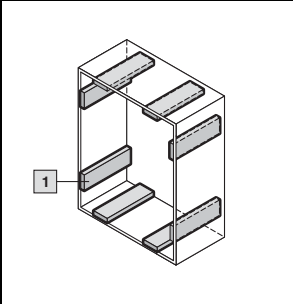
RittalXpress	622
CE/Grounding/HD/Model Numbers	623
Protection Categories	624
NEMA	625
Approvals/Equipment Grounding Conductor	627
Coating/Spray Finish	628



Interior Fittings

Rail systems

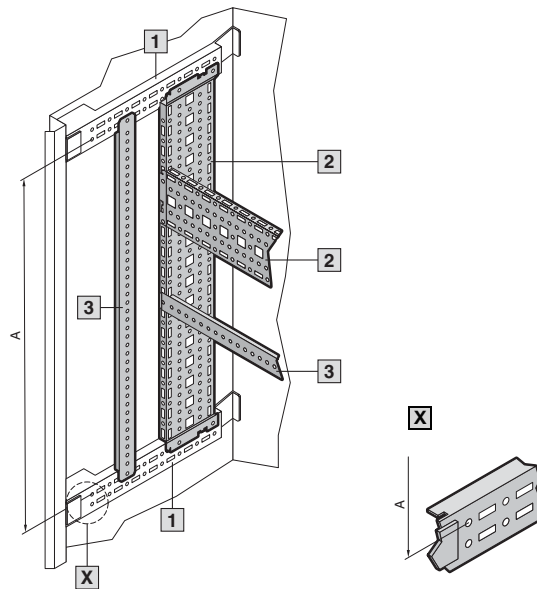
AE Configuration Examples with TS System Rails



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

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

¹⁾ A = Rail mounting distance



CM Configuration Examples with TS System Rails

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

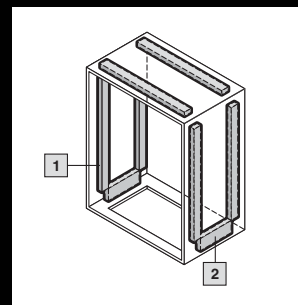
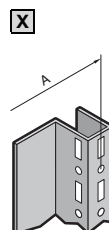
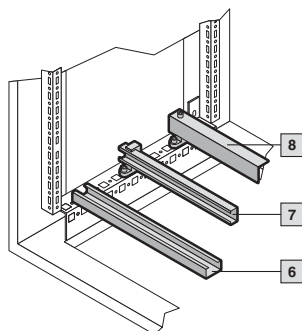
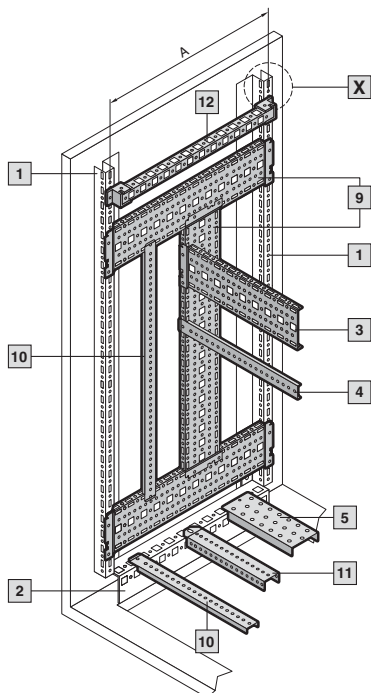
2 Base configuration rails (preparation for configuration)							
For housing depth, inches (mm)	Packs of	-	16 (400)	-	-	-	
Model No.	2 pc(s).	-	5001.370	-	-	-	524

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

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

Configuration in the depth									
	For housing depth inches (mm)	A ¹⁾ inches (mm)	Packs of	Model No.					
9 TS system chassis 17 x 73 mm	12 (300)	9 (225)	4 pc(s).	8612.130	8612.130	8612.130	8612.130	8612.130	522
	16 (400)	13 (325)	4 pc(s).	8612.140	8612.140	8612.140	8612.140	8612.140	
10 TS support strips	16 (400)	13 (325)	20 pc(s).	4694.000	4694.000	4694.000	4694.000	4694.000	525
11 TS punched rail 18 x 38 mm	16 (400)	13 (325)	4 pc(s).	8612.240	8612.240	8612.240	8612.240	8612.240	525
12 PS punched rail 23 x 23 mm with TS mounting bracket (2 pcs per rail)	16 (400)	11 (275)	12 pc(s).	4169.000	4169.000	4169.000	4169.000	4169.000	526
			24 pc(s).	8800.370	8800.370	8800.370	8800.370	8800.370	534

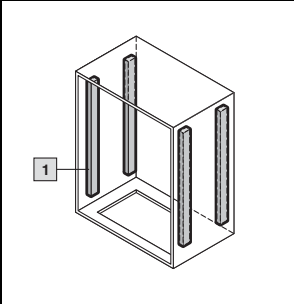
¹⁾ A = Rail mounting distance



Interior Fittings

Rail systems

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



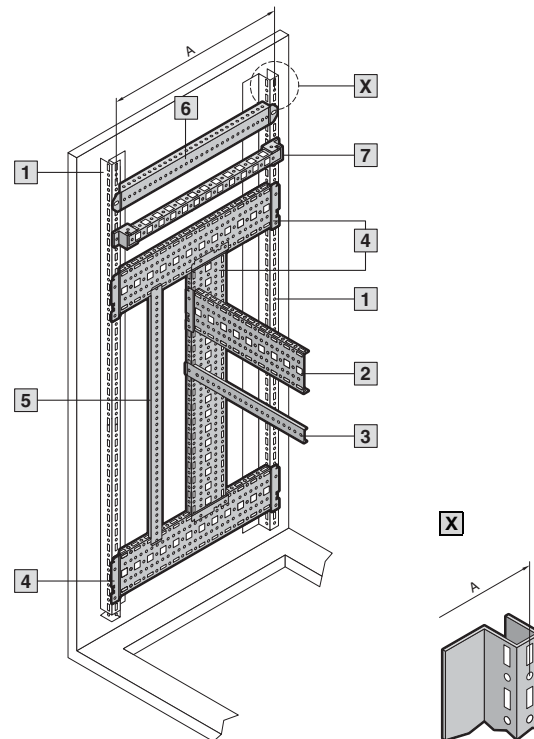
1 Rails for interior fitting (preparation for configuration)						
For housing height, inches (mm)	Packs of	27 (675)	27 (675)	27 (675)	27 (675)	Page
For housing width, inches (mm)		24 (600)	32 (800)	47 (1200)	63 (1600)	
Model No.	4 pc(s).	5001.050	5001.050	5001.050	5001.050	521

Configuration in the height (individual configuration with e.g.)	
TS support strips	see page 525
TS punched rail 18 x 38 mm	see page 525

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

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

¹⁾ A = Rail mounting distance



TP Console Top-Section Configuration Examples with TS System Rails

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

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

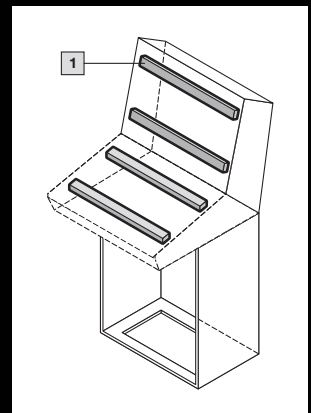
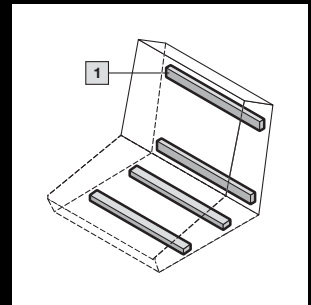
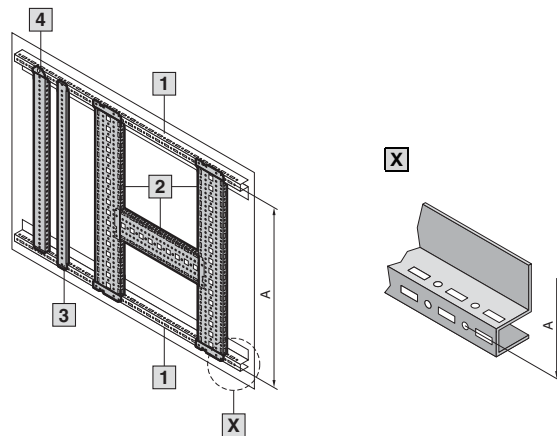
2 TS system chassis 17 x 73 mm							
For cover	15 (375)	4 pc(s).	8612.040	8612.040	8612.040	8612.040	522
For housing	17 (425)	4 pc(s).	8612.150	8612.150	8612.150	8612.150	522

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

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

¹⁾ A = Rail mounting distance

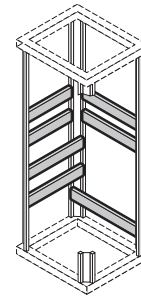
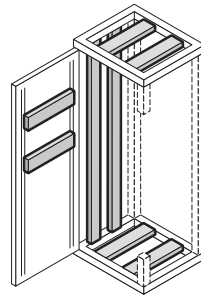
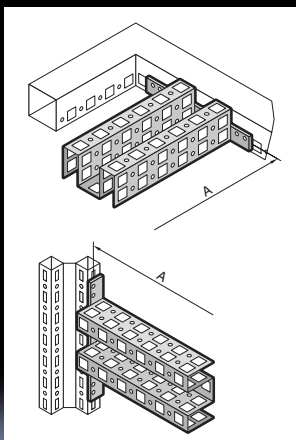
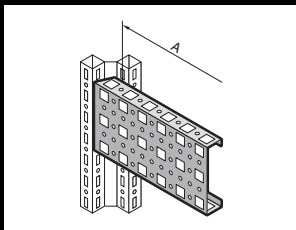
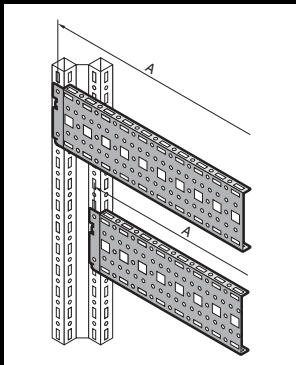
Console top-section/desk unit/console lid



Interior Fittings

Rail systems

TS/SE Configuration Examples with TS System Rails



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

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

¹⁾ A = Rail mounting distance

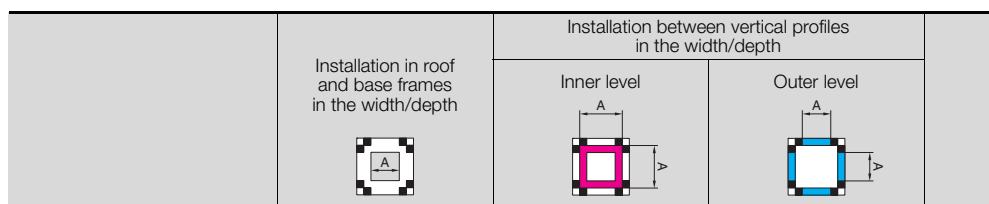
TS system chassis 23 x 73 mm								
For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
20 (500)	4 pc(s).	-	-	17 (425)	8612.550	-	-	523
24 (600)	4 pc(s).	-	-	21 (525)	8612.560	-	-	
32 (800)	4 pc(s).	-	-	29 (725)	8612.580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

¹⁾ A = Rail mounting distance

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

¹⁾ A = Rail mounting distance

TS/SE Configuration Examples with TS System Rails



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

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

¹⁾ A = Rail mounting distance

TS punched rail 18 x 38 mm

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

¹⁾ A = Rail mounting distance

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

TS support strips

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

¹⁾ A = Rail mounting distance

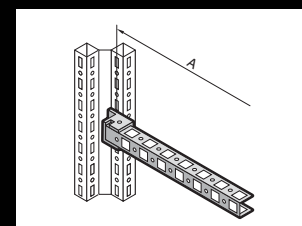
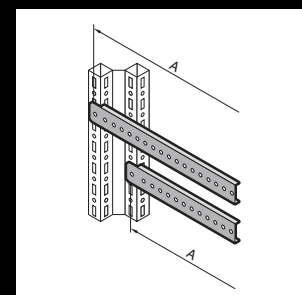
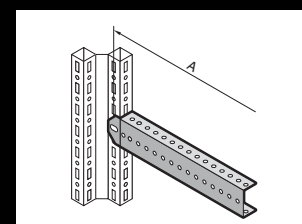
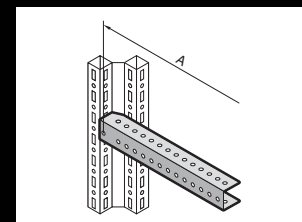
Alternatively, the TS support strip for the inner mounting level can also be used for mounting on the door.

PS punched rails 23 x 23 mm

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

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

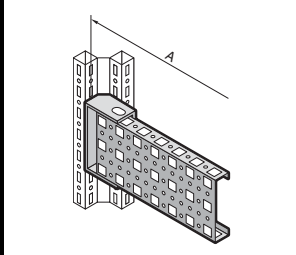
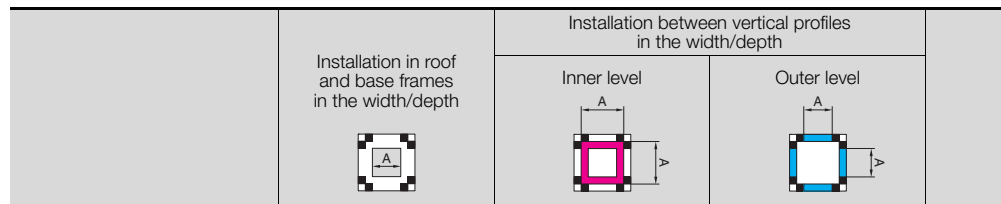
¹⁾ A = Rail mounting distance



Interior Fittings

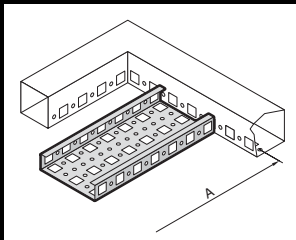
Rail systems

TS/SE Configuration Examples with TS System Rails



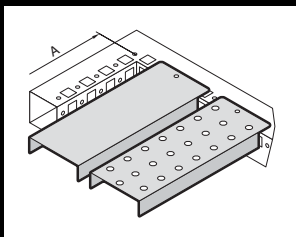
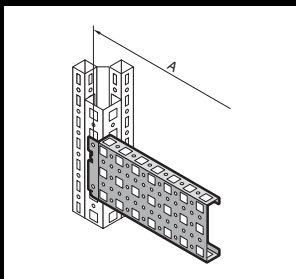
PS punched section without mounting flange 23 x 73 mm (installation options with support bracket TS)								
For housing width/depth inches (mm)	Packs of	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	A ¹⁾ inches (mm)	Model No.	Page
16 (400)	4 pc(s).	11 (275)	4374.000	11 (275)	4374.000	-	-	527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

¹⁾ A = Rail mounting distance



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

¹⁾ A = Rail mounting distance



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

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

¹⁾ A = Rail mounting distance

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

Rails for Interior Fitting

for AE

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

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

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

Advantages:

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

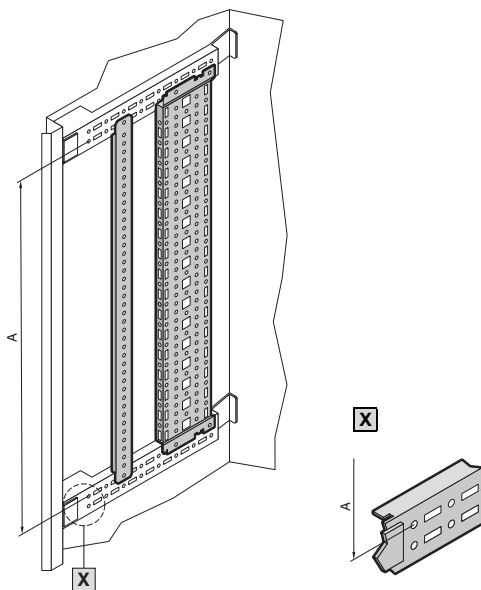
Note:

Other mounting options:

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

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

Configuration examples:



A = rail spacing



Rails for Interior Fitting

for CM, TP

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

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

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

²⁾ Only with TP pedestal, one-piece console

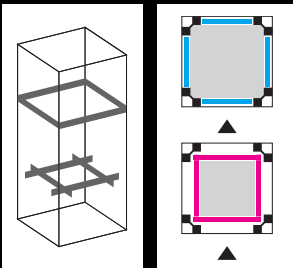
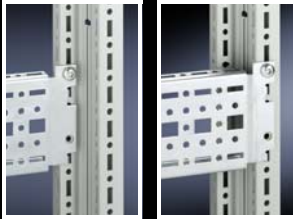
Configuration examples:

See page 515



Interior Fittings

Rail Systems



TS system chassis 17 x 73 mm

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

Installation options:

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws



Also required:

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



Accessories:

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

For the outer mounting level

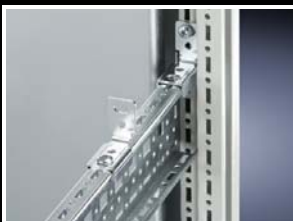
For Enclosure width/depth inches (mm)	Packs of	Model No.
12 (300)	4 pc(s).	8612.130
16 (400)	4 pc(s).	8612.140
20 (500)	4 pc(s).	8612.150
24 (600)	4 pc(s).	8612.160
32 (800)	4 pc(s).	8612.180
39 (1000)	4 pc(s).	8612.100
47 (1200)	4 pc(s).	8612.120

For the inner mounting level or for tubular door frames

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

Configuration examples:

See from page 514



Attachment TS

for system chassis, 17 x 73 mm

Advantages:

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

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

TS system chassis 23 x 73 mm

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

Installation options:

- On the vertical TS, SE enclosure section

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

For the inner mounting level

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

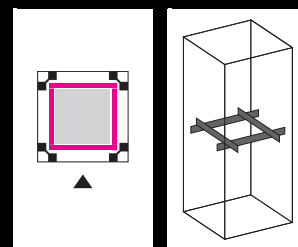
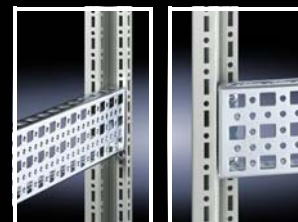


Accessories:

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

Configuration examples:

See page 514



TS punched section without mounting flange 45 x 88 mm

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

Installation options:

- On the vertical and horizontal TS, SE enclosure section

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

For the inner mounting level

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

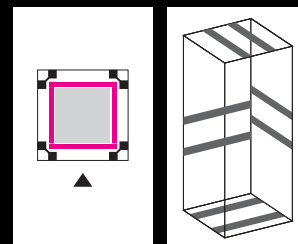


Accessories:

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

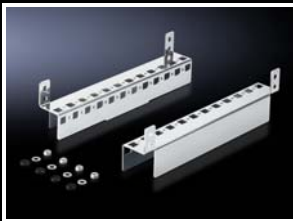
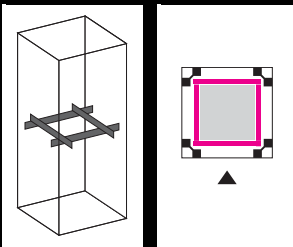
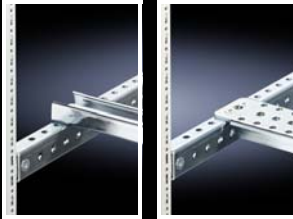
Configuration examples:

See page 514



Interior Fittings

Rail Systems



TS Punched Rail 25 x 38 mm

For heavy installed equipment, with mounting holes.

Installation options:

- On the vertical TS, SE enclosure section

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

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

Material:

- Carbon steel, 3.0 mm

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

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



Also required:

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

Note:

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

Configuration examples:

See page 514

Base Configuration Rail

for CM, TP

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

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

TS Punched Rail 18 x 38 mm

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

Installation options:

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

Note:

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

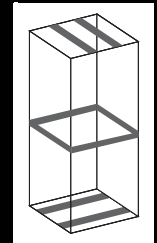
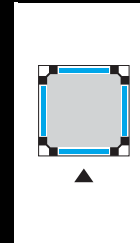
For Enclosure width/depth inches (mm)	Packs of	Model No.
16 (400)	4 pc(s).	8612.240
20 (500)	4 pc(s).	8612.250
24 (600)	4 pc(s).	8612.260
32 (800)	4 pc(s).	8612.280

+ Accessories:

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

Configuration examples:

See from page 514



TS support strips

Installation options:

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

For the outer mounting level

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

+ Accessories:

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

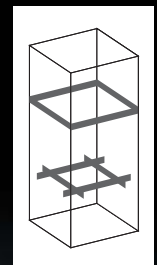
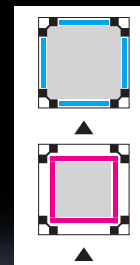
Configuration examples:

See from page 514



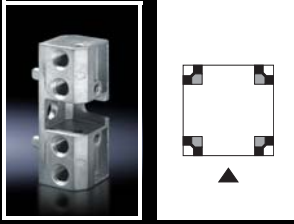
For the inner mounting level and for mounting on doors

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



Interior Fittings

Rail Systems



TS Assembly Block

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

Material:

- Die-cast zinc

Supply includes:

- Assembly screws

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



Possible alternative:

- Snap-on nut, see page 533



Adapter Rail

for PS compatibility

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

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

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



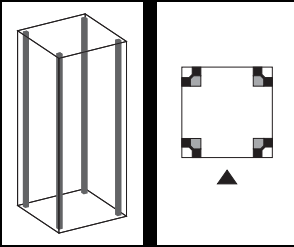
Accessories:

- Screws, see page 539



Possible alternative:

- Snap-on nut, see page 533



PS Punched Rails 23 x 23 mm

for TS, SE

Installation options:

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

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



Also required:

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



Accessories:

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

Configuration examples:

See from page 514



Punched Rail 23 x 23 mm

for Flex-Block

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

Installation options:

- In the width and depth

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- 12 punched rails
- Assembly components for mounting

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



Accessories:

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



PS Punched Section without Mounting Flange 23 x 73 mm

for TS, SE

Installation options:

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

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



Also required:

- PS/TS support brackets, see page 535

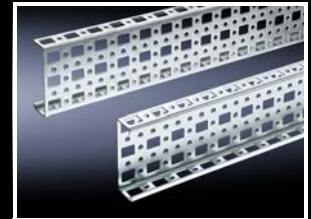


Accessories:

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

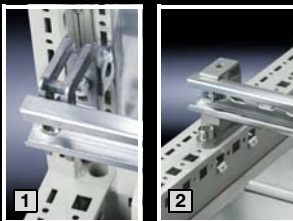
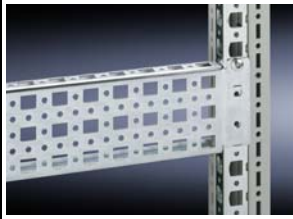
Configuration examples:

See page 514



Interior Fittings

Rail Systems



PS System Chassis 23 x 73 mm for TS, SE

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

Installation options:

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

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



Also required:

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

Configuration examples:

See page 514

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

Installation options:

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

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



Accessories:

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



Possible alternative:

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

C Rails

for TS, SE

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

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



Accessories:

- Cable clamps, see page 575



System Support Rails

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

Installation options:

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

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

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



Accessories:

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



Support Rails

for TS, SE, CM

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

Installation options:

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

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

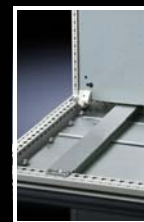


Accessories:

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

Configuration examples:

See from page 514



Interior Fittings

Rail Systems



Support Rail 65 x 42 mm for TS, SE

Advantages:

- For heavy assemblies up to 5000 N per support rail

Permissible static load:

- 10000 N per enclosure

Material:

- Steel

Surface finish:

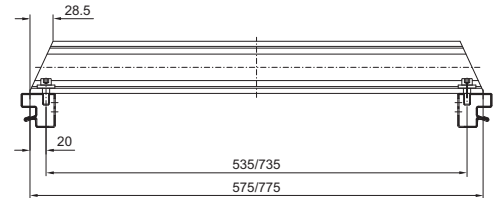
- Zinc-plated

Supply includes:

- Assembly components



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



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

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

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



Support rails TS 35/7.5 and TS 35/15

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

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

Support Rails

- to EN 60 715
Standard length 2 m

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



Mounting Clip

for support rails

For fast and secure attachment of

- Cable ducts
- Mounting plates
- Profile rails

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

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

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

Mounting plates

Locatable

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

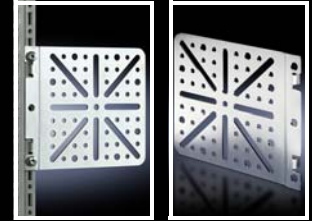
Supply includes:

- Assembly screws

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

Technical details:

Available on the Internet



Mounting plates

Screw-fastened, large

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

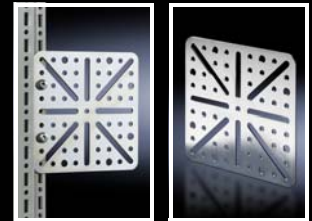
Supply includes:

- Assembly screws

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

Technical details:

Available on the Internet



Mounting plates

Screw-fastened, small

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

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

Technical details:

Available on the Internet



Mounting bracket

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

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

+ Accessories:

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

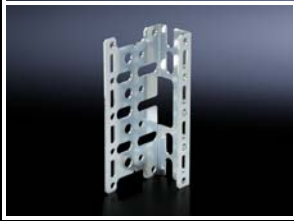
Technical details:

Available on the Internet



Interior Fittings

Rail Systems



Mounting bracket

for interior fitting

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

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly components

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

Technical details:

Available on the Internet

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