

# RatiopacPRO Style

02/2024



# nvent schroff

### Desk-top cases - RatiopacPRO Style

### OVERVIEW

### MAIN KATALOG

Cabinets		•			1
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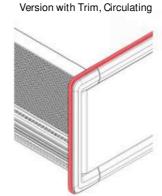
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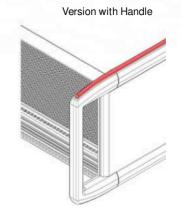
### **VARIETY OF FRONT AND REAR OPTIONS**

• Three different front and rear options embedded into the frame design, to provide a high level of protection and usability.



Version with Trim



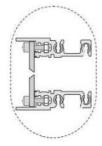


### RatiopacPRO Style

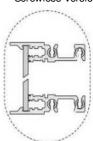
Designed for insertion/extractor handles in accordance with IEC 60297-3-102 and IEEE 1101.10 for CompactPCI and VME64x applications

In addition to the front screwed front panels, also pre-configured version for a screwless front panels versions are offered for a clean case design.

### Standard Version:



#### Screwless Version:



### **STANDARDS**

- Inner dimensions in accordance with: IEC 60297-3-101 / IEEE 1101.1 IEC 60297-3-102 / IEEE 1101.10/11
- For board depth 160 mm, 220 mm, 280 mm, and 340 mm
- Type of protection IP30 (with front- and rear panel) in accordance with IEC 60529
- Earthing connections in accordance with: DIN EN 50178 / VDE 0160
   DIN EN 62368-1 / VDE 0805
   DIN EN 61010-1 / VDE 0411 part 1
- EMC testing in accordance with VG 95373 part 15

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### Desk-top cases - RatiopacPRO Style

### **OVERVIEW**

### THE STYLISH CASE TO PROVIDE MAXIMUM FLEXIBILITY

- Desktop case with protective frame design and rubber strips
- Leverage proven platform to streamline the design process and minimize risks and delays.
- Achieve distinctive aesthetics through features like protective elements and stackability.
- Case for 19" components (guide rails) or proprietary components (mounting plate).
- For EMC-shielding, additional components need to be added, please refer to page 5.159
- No visible screws; cladding parts removable without tools



### RatiopacPRO Style -Front and Rear Trims / Top & Bottom Rubber Strip

- Trim frame design on front and rear of desktop case for protection of connectors, jacks or plugs, when equipment is positioned vertically.
- Removeable rubber strip bottom and top of desktop case for extra protection of case and integrated stacking function



### RatiopacPRO Style -Front and Rear Trims / Circulated Rubber Strip

- Trim frame design on front and rear of desktop case for protection of connectors, jacks or plugs, when equipment is positioned vertically.
- Non-Removable rubber strip all around the case to protect all corners, ideal for smaller mobile cases



# RatiopacPRO Style Front Handle and Rear Trims / Top & Bottom Rubber Strip

- Front handle frame design on front to easy carry desktop cases, ideal for larger equipment
- Trim frame design on rear to protect rear connectors, jacks or plugs
- Removeable rubber strip bottom and top of desktop case for extra protection of case and integrated stacking function

#### **Accessories**

All accessories are compliant with RatiopacPRO Style, RatiopacPRO and RatiopacPRO Air

### **SERVICEPLUS**

e.g. modifications (cut-outs, special colours)

e.g. custom solutions (special sizes)

e.g. assembly service from 1 piece

### RatiopacPRO Style

ront-/	Rear	Trim					5.152
TOTIL-/	near	1111111	٠	•	•	٠	5.152

### Cirulating Rubber Strip .5.154

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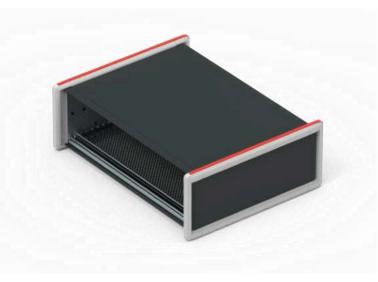
### Service Plus:

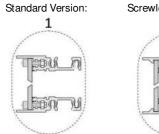
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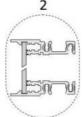


### RatiopacPRO Style Case

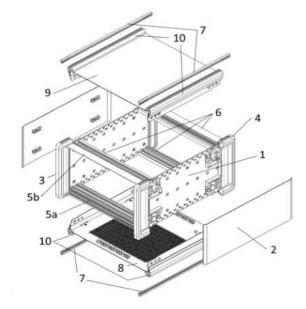


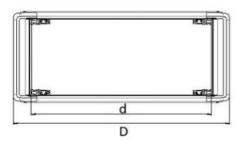


Screwless Version:



**Delivery Comprise** 





#### Version with Trims front and rear side

- Desktop case with protective frame design and rubber strips on the top and bottom for a secure stand and with integrated stacking function
- Case for 19" components (guide rails) or proprietary components (mounting plate).
- To establish EMC-shielding, additional components need to be added out of page 5.159 to the enclosure.
- · Available in two versions:

Standard (1) - Front and rear side prepared for front panel mounting with collar screws and sleeves.

Screwless (2) - Front side for front panel mounting without screws and rear side prepared for standard front panel mounting.

### **DELIVERY COMPRISES** (in kit form)

Item	Qty	Qty	Description
	Standard	Screwless	
1	2	2	Side panel, AI, 2 mm, passivated
2	2	2	Side cover, Al, 1 mm, visible surface RAL 7016
3	2	2	Front Trim, die-cast zinc, RAL 9006
4	2	2	Rear Trim, die-cast zinc, RAL 9006
5 <b>a</b>	1		Horizontal rail, type H-LD, Al, visible surfaces powder coated, RAL 7016, assembled on front side bottom, for IEEE application
5 <b>b</b>	-		Horizontal rail, type H-LD, Al, visible surfaces powder coated, RAL 7016, assembled on front side bottom, for screwless front
6	3	2	Horizontal rail, type H-LD, Al, visible surfaces powder coated, RAL 7016,
7	4	4	Rubber strip, RAL 3000
8	1		Bottom cover with round perforation Ø2.3mm, Al, 1 mm, internal surface conductive, visible surface RAL 7016, with GND/earthing connection
9	1		Top cover, Al 1 mm, Surface RAL 7016, with GND/ earthing connection
10	4	4	Depth profile, Al-profile, RAL 9006
11	1	1	Fixing materials kit and user manual

### **ORDER INFORMATION**

Height H	Width W	Depth D	Depth <b>d</b>	Standard	Screwless
U	HP	mm	mm	Part no.	Part no.
2	28	294.4	235.5	24582-210	24582-214
2	28	354.4	295.5	24582-211	24582-215
2	42	294.4	235.5	24582-220	24582-224
2	42	354.4	295.5	24582-221	24582-225
2	42	414.4	355.5	24582-222	24582-226
2	63	294.4	235.5	24582-230	24582-234
2	63	354.4	295.5	24582-231	24582-235
2	63	414.4	355.5	24582-232	24582-236
2	84	294.4	235.5	24582-240	24582-244
2	84	354.4	295.5	24582-241	24582-245
2	84	414.4	355.5	24582-242	24582-246
2	84	474.4	415.5	24582-243	24582-247
3	28	294.4	235.5	<b>24582</b> -310	<b>24582</b> -314
3	28	354.4	295.5	<b>24582-</b> 311	<b>24582-</b> 315
3	42	294.4	235.5	24582-320	24582-324
3	42	354.4	295.5	24582-321	24582-325
3	42	414.4	355.5	24582-322	24582-326
3	63	294.4	235.5	24582-330	24582-334
3	63	354.4	295.5	24582-331	24582-335
3	63	414.4	355.5	24582-332	24582-336
3	84	294.4	235.5	24582-340	24582-344
3	84	354.4	295.5	24582-341	24582-345
3	84	414.4	355.5	24582-342	24582-346
3	84	474.4	415.5	24582-343	24582-347

### Remark:

4 U and 6 U version on the next page

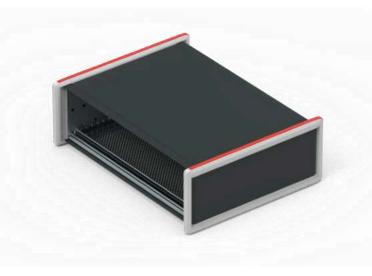
#### Accessories:

- EMC shielding kits, page 5.159
- GND/ grounding kit, page 5.163

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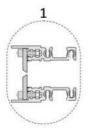


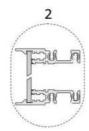
RatiopacPRO Style Case



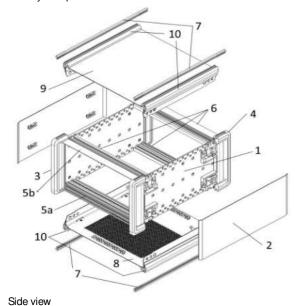
### Standard Version:

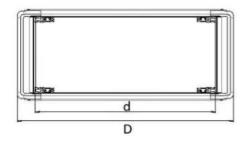






**Delivery Comprise** 





### Version with Trims front and rear side

- Desktop case with protective frame design and rubber strips on the top and bottom for a secure stand and with integrated stacking function
- Case for 19" components (guide rails) or proprietary components (mounting plate).
- To establish EMC-shielding, additional components need to be added out of page 5.159 to the enclosure.
- · Available in two versions:
- Standard (1) Front and rear side prepared for front panel mounting with collar screws and sleeves.
- Screwless (2) Front side for front panel mounting without screws and rear side prepared for standard front panel mounting.

### **DELIVERY COMPRISES** (in kit form)

DEI	DELIVERY COMPRISES (III KIL IOITII)								
Iten	n Q	ty	Qty		Description				
	Sta	ndard	Scre	ewless	3				
	4U	6U	4U	6U					
1	2	2	2	2	Side panel, Al, 2 mm, passivated				
2	2	2	2	2	Side cover, Al, 1 mm, visible surface RAL 7016				
3	2	2	2	2	Front Trim, die-cast zinc, RAL 9006				
4	2	2	2	2	Rear Trim, die-cast zinc, RAL 9006				
5 <b>a</b>	1	2	-	-	Horizontal rail, type H-LD, Al, visible surfaces powder coated, RAL 7016, assembled on front side bottom, for IEEE application				
5 <b>b</b>	-	-	2	2	Horizontal rail, type H-LD, Al, visible surfaces powder coated, RAL 7016, assembled on front side bottom, for screwless front				
6	3	2	2	2	Horizontal rail, type H-LD, Al, visible surfaces powder coated, RAL 7016,				
7	4	4	4	4	Rubber strip, RAL 3000				
8	1	1	1	1	Bottom cover with round perforation Ø2.3mm, Al, 1 mm, internal surface conductive, visible surface RAL 7016, with GND/earthing connection				
9	1	1	1	1	Top cover, Al 1 mm, Surface RAL 7016, with GND/ earthing connection				
10	4	4	4	4	Depth profile, Al-profile, RAL 9006				
11	1	1	1	1	Fixing materials kit and user manual				

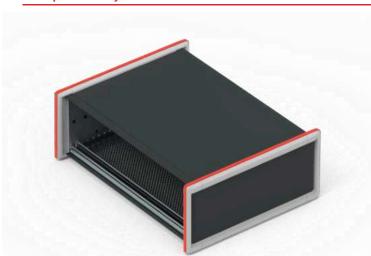
### **ORDER INFORMATION**

Height H	Width W	Depth D	Depth <b>d</b>	Standard	Screwless
U	HP	mm	mm	Part no.	Part no.
4	42	294.4	235.5	24582-420	24582-424
4	42	354.4	295.5	24582-421	24582-425
4	42	414.4	355.5	24582-422	24582-426
4	63	294.4	235.5	24582-430	24582-434
4	63	354.4	295.5	24582-431	24582-435
4	63	414.4	355.5	24582-432	24582-436
4	84	294.4	235.5	24582-440	24582-444
4	84	354.4	295.5	24582-441	24582-445
4	84	414.4	355.5	24582-442	24582-446
4	84	474.4	415.5	24582-443	24582-447
6	42	294.4	235.5	24582-620	24582-624
6	42	354.4	295.5	24582-621	24582-625
6	42	414.4	355.5	24582-622	24582-626
6	63	294.4	235.5	24582-630	24582-634
6	63	354.4	295.5	24582-631	24582-635
6	63	414.4	355.5	24582-632	24582-636
6	84	294.4	235.5	24582-640	24582-644
6	84	354.4	295.5	24582-641	24582-645
6	84	414.4	355.5	24582-642	24582-646
6	84	474.4	415.5	24582-643	24582-647

- EMC shielding kits, page 5.159
- GND / grounding kit, page 5.163



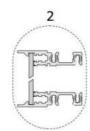
RatiopacPRO Style Case



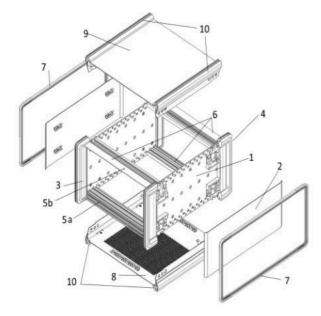
### Standard Version:

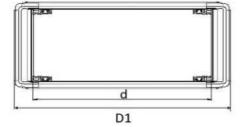






**Delivery Comprise** 





#### Version with Trims front and rear side and circulation rubber strip

- Desktop case with protective frame design and rubber strips all around the frame, for even more protection.
- Case for 19" components (guide rails) or proprietary components (mounting plate).
- To establish EMC-shielding, additional components need to be added out of page 5.159 to the enclosure.
- Available in two versions:
  - Standard (1) Front and rear side prepared for front panel mounting with collar screws and sleeves.
  - Screwless (2) Front side for front panel mounting without screws and rear side prepared for standard front panel mounting.

### **DELIVERY COMPRISES** (in kit form)

	0.	O4	
Item	n Qty	Qty	Description
	Standard	Screwless	
1	2	2	Side panel, Al, 2 mm, passivated
2	2	2	Side cover, Al, 1 mm, visible surface RAL 7016
3	2	2	Front Trim, die-cast zinc, RAL 9006
4	2	2	Rear Trim, die-cast zinc, RAL 9006
5 <b>a</b>	1	-	Horizontal rail, type H-LD, Al, visible surfaces powder coated, FAL 7016, assembled on front side bottom, for IEEE application
5 <b>b</b>	-	2	Horizontal rail, type H-LD, Al, visible surfaces powder coated, RAL 7016, assembled on front side bottom, for screwless front
6	3	2	Horizontal rail, type H-LD, Al, visible surfaces powder coated, RAL 7016,
7	2	2	Rubber strip, RAL 3000
8	1	1	Bottom cover with round perforation Ø2.3mm, Al, 1 mm, internal surface conductive, visible surface RAL 7016, with GND/earthing connection
9	1	1	Top cover, Al 1 mm, Surface RAL 7016, with GND/ earthing connection
10	4	4	Depth profile, Al-profile, RAL 9006
11	1	1	Fixing materials kit and user manual

### **ORDER INFORMATION**

∐oight ∐	Width W	Depth D1	Depth <b>d</b>	Standard Part	Screwless Part
I leight I l	HP				
2	28	mm	235.5	no. 24581-210	no. 24581-214
2		298.4	295.5	24581-210	24581-215
	28	358.4			
2	42	298.4	235.5	24581-220	24581-224
2	42	358.4	295.5	24581-221	24581-225
2	42	418.4	355.5	24581-222	24581-226
2	63	298.4	235.5	24581-230	24581-234
2	63	358.4	295.5	24581-231	24581-235
2	63	418.4	355.5	24581-232	24581-236
2	84	298.4	235.5	24581-240	24581-244
2	84	358.4	295.5	24581-241	24581-245
2	84	418.4	355.5	24581-242	24581-246
2	84	478.4	415.5	24581-243	24581-247
3	28	298.4	235.5	24581-310	24581-314
3	28	358.4	295.5	<b>24581-</b> 311	24581-315
3	42	298.4	235.5	24581-320	24581-324
3	42	358.4	295.5	24581-321	24581-325
3	42	418.4	355.5	24581-322	24581-326
3	63	298.4	235.5	24581-330	24581-334
3	63	358.4	295.5	24581-331	24581-335
3	63	418.4	355.5	24581-332	24581-336
3	84	298.4	235.5	24581-340	24581-344
3	84	358.4	295.5	24581-341	24581-345
3	84	418.4	355.5	24581-342	24581-346
3	84	478.4	415.5	24581-343	24581-347

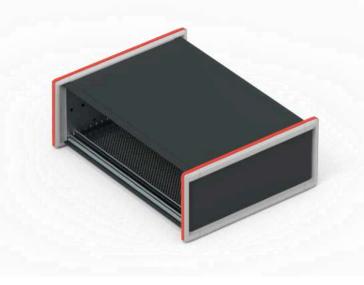
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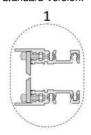
- EMC shielding kits, page 5.159
- GND / grounding kit, page 5.163



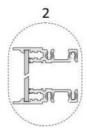
RatiopacPRO Style Case



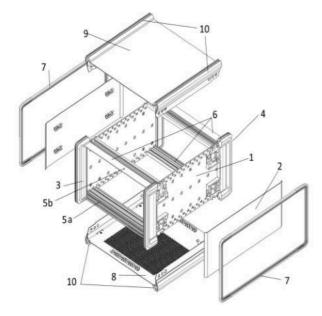
#### Standard Version:

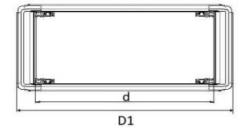


Screwless Version:



**Delivery Comprise** 





### Version with Trims front and rear side and circulation rubber strip

- Desktop case with protective frame design and rubber strips all around the frame, for even more protection.
- Case for 19" components (guide rails) or proprietary components (mounting plate).
- To establish EMC-shielding, additional components need to be added out of page 5.159 to the enclosure.
- · Available in two versions:
  - Standard (1) Front and rear side prepared for front panel mounting with collar screws and sleeves.
- Screwless (2) Front side for front panel mounting without screws and rear side prepared for standard front panel mounting.

### **DELIVERY COMPRISES** (in kit form)

	DELIVERT COMPRISES (III MIC 101111)							
Iten	n Qt	ty	Qt	/	Description			
	Standard   Screwless		ewless					
	4U	6U	4U	6U				
1	2	2	2	2	Side panel, Al, 2 mm, passivated			
2	2	2	2	2	Side cover, Al, 1 mm, visible surface RAL 7016			
3	2	2	2	2	Front Trim, die-cast zinc, RAL 9006			
4	2	2	2	2	Rear Trim, die-cast zinc, RAL 9006			
5 <b>a</b>	1	2	-	-	Horizontal rail, type H-LD, Al, visible surfaces powder coated, RAL 7016, assembled on front side bottom, for IEEE application			
5 <b>b</b>	-	-	2	2	Horizontal rail, type H-LD, Al, visible surfaces powder coated, RAL 7016, assembled on front side bottom, for screwless front			
6	3	2	2	2	Horizontal rail, type H-LD, Al, visible surfaces powder coated, RAL 7016,			
7	4	4	4	4	Rubber strip, RAL 3000			
8	1	1	1	1	Bottom cover with round perforation Ø2.3mm, Al, 1 mm, internal surface conductive, visible surface RAL 7016, with GND/earthing connection			
9	1	1	1	1	Top cover, Al 1 mm, Surface RAL 7016, with GND/ earthing connection			
10	4	4	4	4	Depth profile, Al-profile, RAL 9006			
11	1	1	1	1	Fixing materials kit and user manual			

#### **ORDER INFORMATION**

Height H	Width W	Depth D1	Depth <b>d</b>	Standard	Screwless
U	HP	mm	mm	Part no.	Part no.
4	42	298.4	235.5	24581-420	24581-424
4	42	358.4	295.5	24581-421	24581-425
4	42	418.4	355.5	24581-422	24581-426
4	63	298.4	235.5	24581-430	24581-434
4	63	358.4	295.5	24581-431	24581-435
4	63	418.4	355.5	24581-432	24581-436
4	84	298.4	235.5	24581-440	24581-444
4	84	358.4	295.5	24581-441	24581-445
4	84	418.4	355.5	24581-442	24581-446
4	84	478.4	415.5	24581-443	24581-447
6	42	298.4	235.5	24581-620	24581-624
6	42	358.4	295.5	24581-621	24581-625
6	42	418.4	355.5	24581-622	24581-626
6	63	298.4	235.5	24581-630	24581-634
6	63	358.4	295.5	24581-631	24581-635
6	63	418.4	355.5	24581-632	24581-636
6	84	298.4	235.5	24581-640	24581-644
6	84	358.4	295.5	24581-641	24581-645
6	84	418.4	355.5	24581-642	24581-646
6	84	478.4	415.5	24581-643	24581-647

- EMC shielding kits, page 5.159
- GND / grounding kit, page 5.163



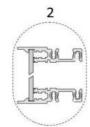
RatiopacPRO Style Case



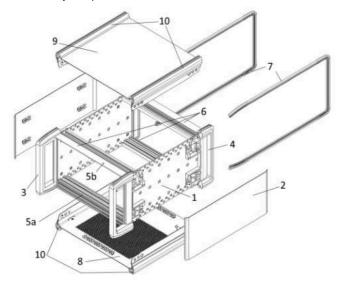
### Standard Version:

Screwless Version:

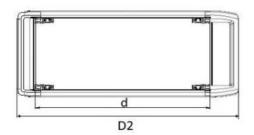




**Delivery Comprise** 



Side view



### Version with Handles on front and trims on rear side

- Desktop case with protective frame design and front handles for a easy handling.
   Rear side with a circulating rubber strip to protect the enclosure during the transport.
- Case for 19" components (guide rails) or proprietary components (mounting plate).
- To establish EMC-shielding, additional components need to be added out of page 5.159 to the enclosure.
- Available in two versions:
  - Standard (1) Front and rear side prepared for front panel mounting with collar screws and sleeves.
  - Screwless (2) Front side for front panel mounting without screws and rear side prepared for standard front panel mounting.

#### **DELIVERY COMPRISES** (in kit form)

	DELIVERY COM RIOLO (III MC 101111)					
Iten	n Qty	Qty	Description			
	Standard	Screwless				
1	2	2	Side panel, AI, 2 mm, passivated			
2	2	2	Side cover, Al, 1 mm, visible surface RAL 7016			
3	2	2	Front Handle, die-cast zinc, RAL 9006			
4	2	2	Rear Trim, die-cast zinc, RAL 9006			
5 <b>a</b>	1	<ul> <li>Horizontal rail, type H-LD, Al, visible surfaces powder coated, RAL 7016, assembled on front side bottom, f IEEE application</li> </ul>				
5 <b>b</b>	-	2	Horizontal rail, type H-LD, Al, visible surfaces powder coated, RAL 7016, assembled on front side bottom, for screwless front			
6	3	2	Horizontal rail, type H-LD, Al, visible surfaces powder coated, RAL 7016,			
7	2	2	Rubber strip, RAL 3000			
8	1	1	Bottom cover with round perforation Ø2.3mm, Al, 1 mm, internal surface conductive, visible surface RAL 7016, with GND/earthing connection			
9	1	1	Top cover, Al 1 mm, Surface RAL 7016, with GND/ earthing connection			
10	4	4	Depth profile, Al-profile, RAL 9006			
11	1	1	Fixing materials kit and user manual			

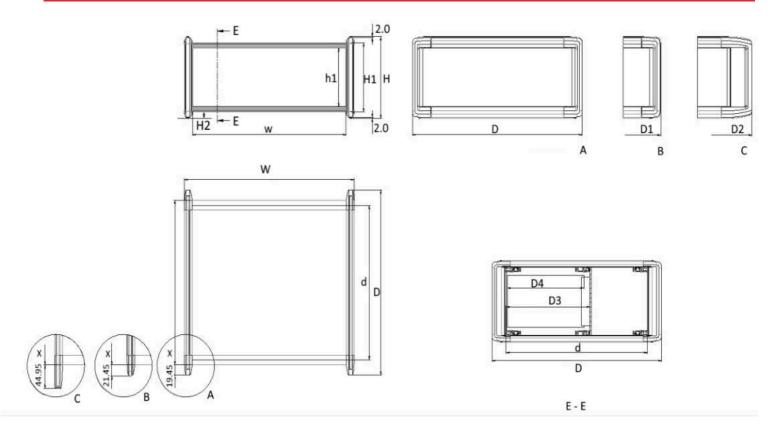
### **ORDER INFORMATION**

Height H	Width W	Depth D2	Depth <b>d</b>	Standard	Screwless
U	HP	mm	mm	Part no.	Part no.
3	28	321.9	235.5	<b>24580</b> -310	<b>24580</b> -314
3	28	381.9	295.5	<b>24580</b> -311	<b>24580</b> -315
3	42	321.9	235.5	24580-320	24580-324
3	42	381.9	295.5	24580-321	24580-325
3	42	441.9	355.5	24580-322	24580-326
3	63	321.9	235.5	24580-330	24580-334
3	63	381.9	295.5	24580-331	24580-335
3	63	441.9	355.5	24580-332	24580-336
3	84	321.9	235.5	24580-340	24580-344
3	84	381.9	295.5	24580-341	24580-345
3	84	441.9	355.5	24580-342	24580-346
3	84	501.9	415.5	24580-343	24580-347
4	42	321.9	235.5	24580-420	24580-424
4	42	381.9	295.5	24580-421	24580-425
4	42	441.9	355.5	24580-422	24580-426
4	63	321.9	235.5	24580-430	24580-434
4	63	381.9	295.5	24580-431	24580-435
4	63	441.9	355.5	24580-432	24580-436
4	84	321.9	235.5	24580-440	24580-444
4	84	381.9	295.5	24580-441	24580-445
4	84	441.9	355.5	24580-442	24580-446
4	84	501.9	415.5	24580-443	24580-447

- EMC shielding kits, page 5.159
- GND / grounding kit, page 5.163



**DIMENSION DRAWINGS RATIOPACPRO Style** 



H2 = 12.0mm

### RatiopacPRO Style:

With Trim = A; With Trims and Circualting Rubber inlay = B; With Front Handle = C

Dimensions Table RatiopacPRO <b>Style</b>						
		Height	Width			
	Н	H1	h1 in		W	W
in U	in mm	in mm	mm	in HP	in mm	in mm
U				28	142.82	176.42
				42	213.94	247.54
2	112.10	88.10	67.90			
				63	320.62	354.22
				84	427.30	460.90
		132.55	112.35	28	142.82	176.42
3	156.55			42	213.94	247.54
	100.00			63	320.62	354.22
				84	427.30	460.90
		177.00	156.80	28	142.82	176.42
4	201.00			42	213.94	247.54
4	201.00	177.00		63	320.62	354.22
				84	427.30	460.90
				28	142.82	176.42
6	000.00	265.90	0.45.70	42	213.94	247.54
0	289.90	205.90	245.70	63	320.62	35 <b>4.22</b>
				84	427.30	460.90

	Depth			D3	D4	
d	Din	D1 in	D2 in	Plug-in		
Useable depth	mm	mm	mm	Unit depth	Board depth	
in mm				in mm	in mm	
235.5	004.40	000 40	321.90	175.5	160	
233.3	294.40	298.40	321.90	235.5	160/220	
				175.5	160	
295.5	354.40	356.40	381.90	235.5	160/220	
				295.5	<b>160/220/</b> 280	
				175.5	160	
355.5	44.40	410.40	441.90	235.5	160/220	
333.3	414.40	418.40	441.90	295.5	160/220/280	
				355.5	160/220/280/340	
				175.5	160	
415.5	474.40	470.40	E04.00	235.5	160/220	
413.3		478.40	501.90	295.5	160/220/280	
				355.5	160/220/280/340	

X = d + 19.80mm

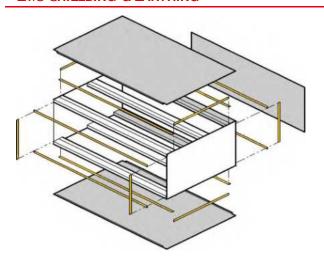
Components mountable in 15 mm depth grid

Drawing is only for visualization

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### **EMC-SHIELDING & EARTHING**



### By adding following components to the RatiopacPRO Style case, a superior RF-shielding can be established:

- EMC sealing front/ rear panel to side panel, page 5.159
- EMC sealing side panel to cover plate, page 5.159
- Front and rear panels with EMC sealing, page 5.160 to 5.163

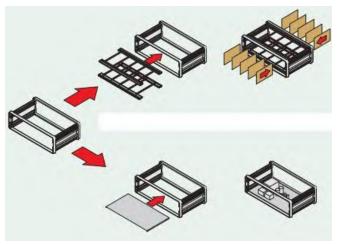
### AIR-COOLING ACCESSORIES



#### Air Baffles and Air Filters:

- Air Filter, page 5.164
- Air Baffles, page 5.164

### **CARD CAGE MECHANICS**



#### Horizontal rails, Chassis plates, Guide rails

- Horizontal rails, page 5.165 to 5.169
- Threaded inserts, perforated strip, insulation strip, page 5.170
- Divider plate / Chassis plate, page 5.172 to 5.173
- Horizontal board mounting / Combined mounting, page 5.174 to 5.175
- Guide rails, page 5.176 to 5.181

### **SERVICE PLUS**



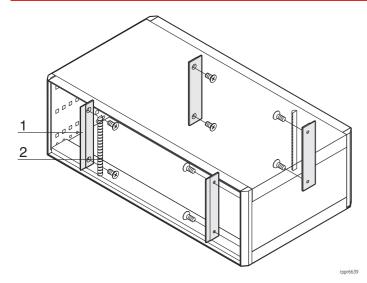
### Service Plus

- Configuration, page 5.182
- Modification, page 5.183

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### **EMC SEALING FRONT/REAR PANEL TO SIDE PANEL**



- Scope of delivery sufficient for one case

### **DELIVERY COMPRISES** (kit)

Item	Qty	Description
1	4	EMC support profile, Al extrusion
2	2	EMC sealing (textile), core: foam, sleeve: textile cladding with CuNi coating
3	1	Assembly kit

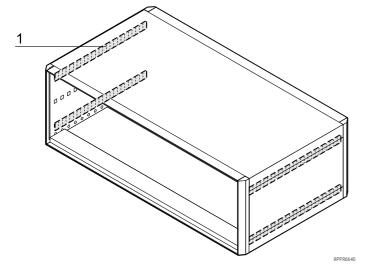
• For vertical EMC shielding between sub-assemblies and side panel

### **ORDER INFORMATION**

For case height	Part no.
U	
2	24571-334
3	24571-331
4	24571-332
6	24571-333

Drawing is only for visualization. Accessories are compliant with RatiopacPRO Style, RatiopacPRO and RatiopacPRO Air

### **EMC SEALING SIDE PANEL TO COVER PLATE**



Drawing is only for visualization. Accessories are compliant with RatiopacPRO Style, RatiopacPRO and RatiopacPRO Air

- For horizontal EMC shielding between side panels and cover plates
- · Scope of delivery sufficient for one case

### **DELIVERY COMPRISES** (kit)

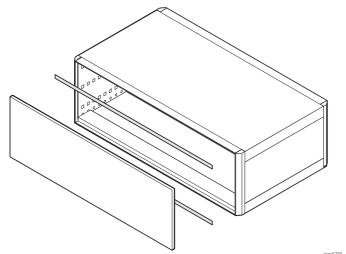
Item	Qty	Description
1	4	Contact strip, stainless steel

### **ORDER INFORMATION**

Depth d	Part no.
mm	
255	24571-338
315	24571-339
375	24571-340
435	24571-341



### **EMC SEALING FRONT/REAR PANEL TO HORIZONTAL RAIL**



Drawing is only for visualization. Accessories are compliant with RatiopacPRO Style, RatiopacPRO and RatiopacPRO Air

### • The contact strip is clipped onto the horizontal rail and sets up the contact to front panel or rear panel

• Can be used for rear horizontal rails (H-VT, L-VT) and all front horizontal

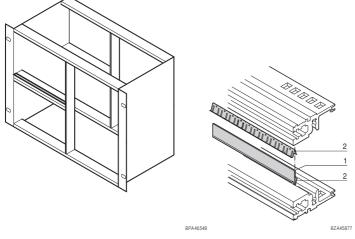
### **DELIVERY COMPRISES**

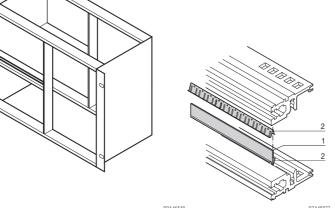
Item	Qty	Description
1	10/100	Stainless steel EMC gasket

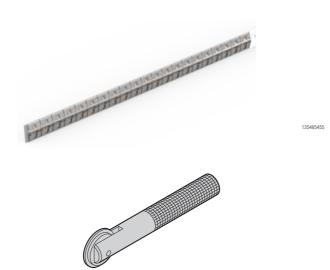
### **ORDER INFORMATION**

Width	Width	Qty/PU	Part no.
HP	mm		
28	131.78	10	24560-229
42	202.9	10	24560-231
63	304.8	10	24560-233
84	416.3	10	24560-235
84	416.3	100	24560-236
Assembly too side),1 piece	I for EMC sealing, St, sta	ainless (horizontal rails	24560-270

### **EMC SEALING HORIZONTAL RAIL TO HORIZONTAL RAIL**







Assembly tool

· For shielding of two horizontal rails located directly above each other with vertical division of the mounting height

### **DELIVERY COMPRISES**

Item	Qty	Description
1	1	Cover strip, Al, 1 mm
2	2	Contact spring, St, stainless

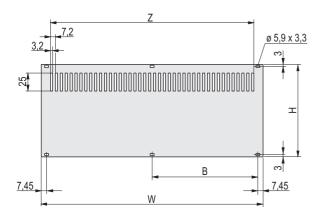
### **ORDER INFORMATION**

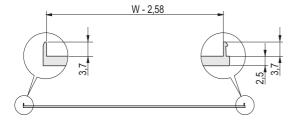
HP  20 24562-520 28 24562-528 40 24562-540 42 24562-542 63 24562-542 63 24562-563 84 24562-584 Assembly tool for EMC sealing, St, stainless (horizontal rails),1 piece	Length	Part no.
28 24562-528 40 24562-540 42 24562-542 63 24562-563 84 24562-584 Assembly tool for EMC sealing,	HP	
40 24562-540 42 24562-542 63 24562-563 84 24562-584 Assembly tool for EMC sealing,	20	24562-520
42 24562-542 63 24562-563 84 24562-584 Assembly tool for EMC sealing, 24560-271	28	24562-528
63 <b>24562-563</b> 84 <b>24562-584</b> Assembly tool for EMC sealing, <b>24560-271</b>	40	24562-540
84 24562-584 Assembly tool for EMC sealing, 24560-271	42	24562-542
Assembly tool for EMC sealing,	63	24562-563
2/1560_271	84	24562-584
St, stainless (horizontal rails),1 piece	,	24560-271
	St, stainless (horizontal rails),1 piece	24300-271

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### **REAR PANELS WITH VENTILATION SLOTS**





Shieldable



Unshielded

- Two versions: unshielded, Al, 2.5 mm; shieldable, Al extrusion (textile EMC seal, retrofittable)
- Mounting on horizontal rails (top and bottom)

### **DELIVERY COMPRISES**

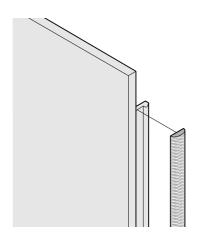
Item	Qty	Description
1	1	Rear panel, Al, 2.5 mm, front: anodised, rear: iridescent green chromated; unshielded (flat) or shieldable (U-shaped) with EMC seal (textile)

### ORDER INFORMATION

Height	Н	Widt	h W		unshielded	shieldable
U	mm	HP	mm	mm	Part no.	Part no.
2	84	28	141.9	-	30849-007	20848-679
2	84	42	213	101.6	30849-014	20848-680
2	84	63	319.7	157.5	30849-015	20848-681
2	84	84	426.4	208.3	30849-016	20848-682
3	128.4	28	141.9	-	30849-008	20848-633
3	128.4	42	213	101.6	30849-021	20848-634
3	128.4	63	319.7	157.5	30849-022	20848-635
3	128.4	84	426.4	208.3	30849-023	20848-636
4	172.9	28	141.9	-	30849-009	20848-656
4	172.9	42	213	101.6	30849-028	20848-657
4	172.9	63	319.7	157.5	30849-029	20848-658
4	172.9	84	426.4	208.3	30849-030	20848-659
6	261.8	28	141.9	-	30849-010	20848-640
6	261.8	42	213	101.6	30849-035	20848-641
6	261.8	63	319.7	157.5	30849-036	20848-642
6	261.8	84	426.4	208.3	30849-037	20848-643

- Assembly parts see page Chapter 7, Front panels
- Rear/front panels without perforation see Chapter 7, Front panels
- · Rear panels with fan available on request

### **TEXTILE EMC SEALS**



### **DELIVERY COMPRISES**

Item	Qty	Description
1	10/100	Textile EMC seal, core: foam,
		sleeve: textile cladding with CuNi coating

### **ORDER INFORMATION**

Height	Height	Qty/PU	Part no.
U	mm	pieces	
2	52	10	21101-857
3	97	100	21101-854
3	97	10	21101-853
4	142	10	21101-858
6	232	100	21101-856
6	232	10	21101-855

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### STAINLESS STEEL EMC GASKET FOR U-SHAPED FRONT PANEL



- The stainless steel EMC-gasket for SCHROFF U-shaped front panels, offers excellent performance in shielding effectiveness and an enormous temperature range from -200 to +160°C.
- Easy mounting by clipping the gasket onto the right front panel bracket

### **DELIVERY COMPRISES**



21100-464

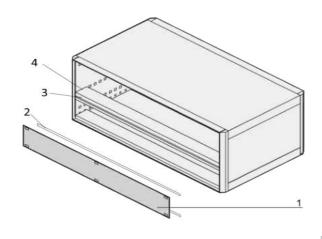
Item	Qty	Description
1	10/100	EMC gasket (stainless steel)

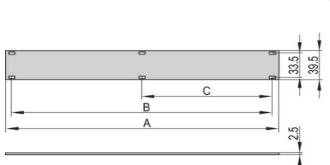
### **ORDER INFORMATION**

Height	Height	Qty/PU	Part no.
U	mm	piece	
2	52	10	21102-115
3	97	10	21102-105
3	97	100	21102-106
4	142	10	21102-113
6	232	10	21102-107
6	232	100	21102-108



### FRONT PANEL, 1 U, UNSHIELDED, FOR 4 U CASE, FOR MOUNTING ON HORIZONTAL RAILS





Drawing is only for visualization. Accessories are compliant with RatiopacPRO Style, RatiopacPRO and RatiopacPRO Air

### **DELIVERY COMPRISES**

Item	Qty	Description
1	1	Front panel, Al, 2.5 mm, front anodised, rear iridescent green chromated

### **ORDER INFORMATION**

Plastic sleeve, PA, grey PU 100 pieces

Width	А	В	С	Front panel		
HP	mm	mm	mm	Part no.		
28	141.9	127.0	-	20850-423		
42	213.0	198.1	101.6	20850-424		
63	319.7	304.8	157.5	20850-425		
84	426.4	411.5	203.2	20850-426		
Accessories						
Pozidrive/s	21101-101					
DII 100 pioc	21101 101					

PU 100 pieces

• Please order items 2, 3 and 4 listed below separately

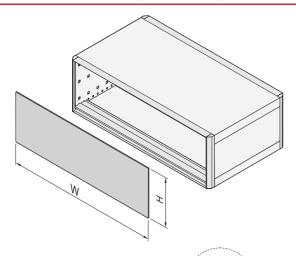
Width	Item 2 EMC gasket, front panel/horizontal rail PU 10 pieces	Item 3 EMC gasketing kit hori- zontal rails, 1 piece	Item 4 Horizontal rail type H-KD, 1 piece (SPQ 10)1)
HP	Part no.	Part no.	Part no.
28	24560-229	24562-528	34560-228
42	24560-231	24562-542	34560-242
63	24560-233	24562-563	34560-263
84	24560-235	24562-584	34560-284

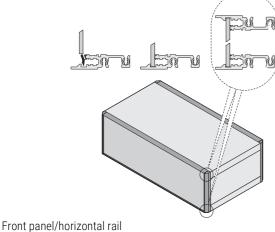
1) SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof

5.162 | nVent.com/SCHROFF



**EMC FRONT / REAR PANEL, SCREWLESS, SHIELDED** 





Drawing is only for visualization. Accessories are compliant with RatiopacPRO Style, RatiopacPRO and RatiopacPRO Air

### · No screws required for fixing

 Special horizontal rails (included in screwless case type) cover the edges of the front panel (top and bottom) and prevent bowing of the front panel

### **DELIVERY COMPRISES (Kit)**

Item	Qty	Description
1	1	Full-width front panel, Al, 2.5 mm, front: anodised, rear: colour passivated

Please order the EMC gaskets (textile), the front to side panel gasket kit and the horizontal rail to front panel EMC gasket kit, separatly

### **ORDER INFORMATION**

For case height U	Height H mm	For case width HP	Width W mm	Part no.
2	84.0	28	141.9	34572-199
2	84.0	42	213.2	34572-200
2	84.0	63	319.7	<b>3</b> 4572- <b>2</b> 01
2	84.0	84	426.4	<b>3</b> 4572- <b>2</b> 02
3	128.4	28	141.9	34572-203
3	128.4	42	213.2	34572-204
3	128.4	63	319.7	34572-205
3	128.4	84	426.4	34572-206
4	172.9	28	141.9	<b>3</b> 4572- <b>2</b> 07
4	172.9	42	213.2	<b>3</b> 4572- <b>2</b> 08
4	172.9	63	319.7	<b>3</b> 4572- <b>2</b> 09
4	172.9	84	426.4	<b>3</b> 4572- <b>2</b> 10
6	261.8	28	141.9	<b>3</b> 4572- <b>223</b>
6	261.8	42	213.2	<b>3</b> 4572- <b>224</b>
6	261.8	63	319.7	34572-225
6	261.8	84	426.4	34572-226

### **NOTE**

To obtain a shielded case, all EMC sealings must be fitted (front panel/rear panel - side panel; side panel - cover plate; front panel/rear panel - horizontal rail; horizontal rail - horizontal rail)

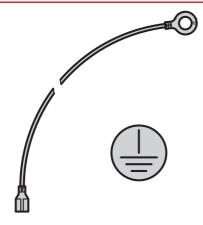
### **REMARK:**

Please order the EMC gaskets (textile) separatly

Flat front panels, EMC front panels (flat with groove for EMC gasket) or U-shaped (for textile gasket) you will find in chapter 7.

All need accessories (sleeves, collar screws, etc.) you will find as well in chapter 7.

### **EARTHING KIT**



 Forms the GND/earthing connections between side panels, base plate, top cover and rear panel

- · Protective GND/earthing connections in accordance with:
  - DIN EN 50178/VDE 0160
  - DIN EN 62368-1/VDE 0805
  - DIN EN 61010-1/VDE 0411 part 1
  - DIN EN 61010-1A2/VDE 0411 part 1/A1
- VDE tested

### **ORDER INFORMATION**

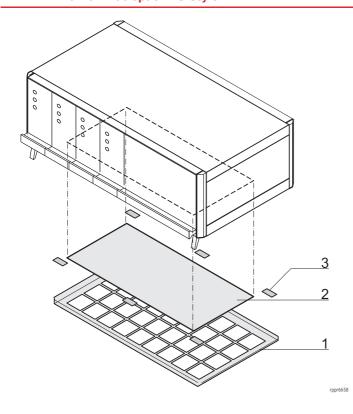
Description	Part no.
GND/earthing kit, Cu wire 1.5 mm <sup>2</sup> , PVC sleeve, green/yellow	24571-380

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### **AIR FILTERS FOR RatiopacPRO Style**



- · Retrofit mounting without reworking and tools
- Filter replacement without opening the case, IP protection retained

### **DELIVERY COMPRISES (kit)**

Item	Qty	Description
1	1	Filter holder, Al, 1 mm, powder-coated, RAL 9006
2	1	Filter mat, synthetic fibre
3	1	Self-adhesive fixings

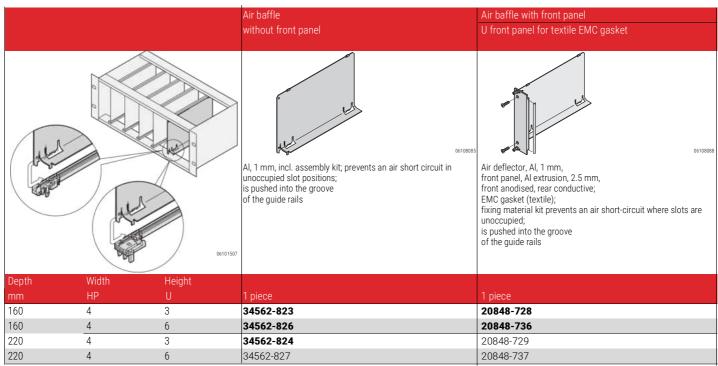
#### ORDER INFORMATION

For case width	Air filter	Replacement filter 1 piece
HP	Part no.	Part no.
28	24571-325	64571-033
42	24571-326	64571-034
63	24571-327	64571-035
84	24571-328	64571-036

Drawing is only for visualization. Accessories are compliant with RatiopacPRO Style, RatiopacPRO and RatiopacPRO Air

### **AIR BAFFLE FOR SLOTS**

### **ORDER INFORMATION**



### NOTE

 Air baffle for other dimensions for example 280 mm deep, or 8 HP and 12HP width or for 80 mm rear I/O boards available on request

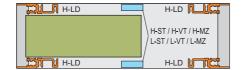




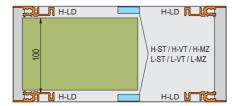
### MOUNTING POSITION RatiopacPRO Style HORIZONTAL RAILS / CENTRAL RAILS

front rear middle 2 U

Drawing are only for visualization. Accessories are compliant with RatiopacPRO Style, RatiopacPRO and RatiopacPRO Air

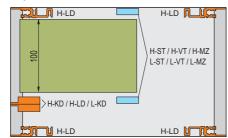


3 U

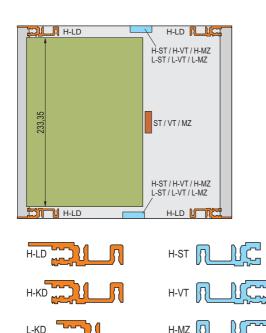


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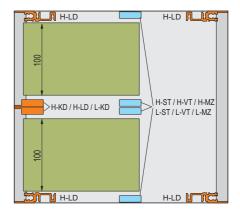
### 4 U (3 U + 1 U)



6 U



6 U (2 x 3





Horizontal rails can be bolted on in 15 mm depth grid

01808050

01802060



### **FRONT HORIZONTAL RAILS**

### **ORDER INFORMATION**



<sup>1)</sup> SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof

Horizontal rail type "heavy": loading capacity > 7.5 kg



### **REAR HORIZONTAL RAILS**

### **ORDER INFORMATION**

Strip   EN 60603-2 (DIN 41612)   EN 60603-2 (DIN 41612)			For indirect backplane fixing with insulation	For direct backplane fixing	For direct fixing of connectors to
Theavy Type H-ST standard Type H-VT long lip Type H				Tot direct backplatte fixing	
"heavy" Type H-ST standard  "heavy" Type H-ST standard  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, cont			on p		211 00000 2 (0111 11012)
"heavy" Type H-ST standard  "heavy" Type H-ST standard  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, conta					
"heavy" Type H-ST standard  "heavy" Type H-ST standard  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, conta					
Type H-ST standard  Type H-ST standard  Type H-VT long lip  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting, with printed HP markings  Al extrusion, anodised finish, contact surface conducting with printed HP markings  Al extrusion, anodised finish, contact surface conducting with printed HP markings  Al extrusion, anodised finish, contact surface conducting with printed HP markings  Al extrusion, anodised finish, cont			04400001 "heavy"		
Standard					· ·
Usable length Length I piece (SPQ 10) <sup>1)</sup>			**	1 * '	**
Al extrusion, anodised finish, contact surface conducting, with printed HP markings   Al extrusion, anodised finish, contact surface conducting, with printed HP markings   Al extrusion, anodised finish, contact surface conducting, with printed HP markings      Vasable length			Standard	Total appropriate to the second secon	WILLE
Usable length   Length   1 piece (SPQ 10) <sup>1)</sup>   1 piece (SPQ 10) <sup>1</sup>   1 piece (SPQ 10) <sup>1)</sup>   1 piece (SPQ 10) <sup>1)</sup>   1 piece (SPQ 10) <sup>1</sup>   1 piece (SPQ 10		06105074	06197011	06197013	06197015
HP       mm       34560-528       34560-728       34560-928         42       218.44       34560-542       34560-742       34560-942         63       325.12       34560-563       34560-763       34560-963         84       431.80Torx       34560-584       34560-784       34560-984         Torx panhead screw, 4 x 14, 100pcs       24571-371       24571-371       24571-371         Torx panhead screw, 4 x 10, 100pcs       24571-372       24571-372       24571-372         Perforated rail for connector mounting with insulation strip see page       5.170       -       -         Z-rail for connector mounting without insulation strip see page       5.170       -       -       -         Insulation strips see page       5.170       -       -       -					
HP       mm       34560-528       34560-728       34560-928         42       218.44       34560-542       34560-742       34560-942         63       325.12       34560-563       34560-763       34560-963         84       431.80Torx       34560-584       34560-784       34560-984         Torx panhead screw, 4 x 14, 100pcs       24571-371       24571-371       24571-371         Torx panhead screw, 4 x 10, 100pcs       24571-372       24571-372       24571-372         Perforated rail for connector mounting with insulation strip see page       5.170       -       -         Z-rail for connector mounting without insulation strip see page       5.170       -       -       -         Insulation strips see page       5.170       -       -       -	Haabla langth	Longth	1 piece (SDO 10\1)	1 piece (SDO 10\1)	1 piece (SPO 10)1)
28       147.32       34560-528       34560-728       34560-928         42       218.44       34560-542       34560-742       34560-942         63       325.12       34560-563       34560-763       34560-963         84       431.80Torx       34560-584       34560-784       34560-984         Torx panhead screw, 4 x 14, 100pcs       24571-371       24571-371       24571-372         Perforated rail for connector mounting with insulation strip see page       5.170       -       -         Z-rail for connector mounting without insulation strip see page       5.170       -       -       -         Insulation strips see page       5.170       -       -       -       -			T piece (SPQ TO)	Tiplece (SPQ TO)	T piece (SPQ TO) /
42       218.44       34560-542       34560-742       34560-942         63       325.12       34560-563       34560-763       34560-963         84       431.80Torx       34560-584       34560-784       34560-984         Torx panhead screw, 4 x 14, 100pcs       24571-371       24571-371       24571-372         Torx panhead screw, 4 x 10, 100pcs       24571-372       24571-372       24571-372         Perforated rail for connector mounting with insulation strip see page       5.170       -       -         Z-rail for connector mounting without insulation strip see page       5.170       -       -         Insulation strips see page       5.170       -       -			34560-538	24560-729	24560.029
63       325.12       34560-563       34560-763       34560-963         84       431.80Torx       34560-584       34560-784       34560-984         Torx panhead screw, 4 x 14, 100pcs       24571-371       24571-371       24571-372         Torx panhead screw, 4 x 10, 100pcs       24571-372       24571-372         Perforated rail for connector mounting with insulation strip see page       5.170       -       -         Z-rail for connector mounting without insulation strip see page       5.170       -       -       -         Insulation strips see page       5.170       -       -       -					
84       431.80Torx       34560-584       34560-784       34560-984         Torx panhead screw, 4 x 14, 100pcs       24571-371       24571-371       24571-371         Torx panhead screw, 4 x 10, 100pcs       24571-372       24571-372         Perforated rail for connector mounting with insulation strip see page       5.170       -       -         Z-rail for connector mounting without insulation strip see page       5.170       -       -       -         Insulation strips see page       5.170       -       -       -					
Torx panhead screw, 4 x 14, 100pcs	84				
Torx panhead screw, 4 x 10, 100pcs   24571-372   24571-372     Perforated rail for connector mounting with insulation strip see page   5.170   -   -   -     Insulation strips see page   5.170   -   -   -					
Perforated rail for connector mounting with insulation strip see page  5.170	·				
mounting with insulation strip see page 5.170			2.07. 072	2.07.1 072	2.07. 072
page  Z-rail for connector mounting without insulation strip see page  5.170  -  Insulation strips see page  5.170  -  -  -  -  -  -  -  -  -  -  -  -  -			5.170	_	_
without insulation strip see page 5.170 – – Insulation strips see page 5.170 – –	page				
without insulation strip see page Insulation strips see page 5.170			F 170	_	_
	without insulation str	ip see page	5.170	_	_
TI 11: .	Insulation strips see	page	5.170	-	-
Threaded inserts see page         5.170         5.170	Threaded inserts see	page	5.170	5.170	5.170

<sup>1)</sup> SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof

Horizontal rail type "heavy": loading capacity > 7.5 kg



### **HORIZONTAL RAILS REAR, CENTRE**

### **ORDER INFORMATION**

		For indirect mounting of backplanes via insulation strip	For direct backplane mounting	For direct fixing of connectors to EN 60603-2 (DIN 41612)
		04400001	0440002	0440003
		Type ST	Type VT	Type MZ
	06108090	Al extrusion, finish anodised, conductive contact surface; horizontal rail type AB (AB = support) is required to fix the 80 mm rear I/O boards; without marking	Al extrusion, finish anodised, conductive contact surface; horizontal rail type AB (AB = support) is required to fix the 80 mm rear I/O boards; without marking	Al extrusion, finish anodised, conductive contact surface; horizontal rail type AB (AB = support) is required to fix the 80 mm rear I/O boards; without marking
Usable length	Length	1 piece (SPQ 10) <sup>1)</sup>	1 piece (SPQ 10) <sup>1)</sup>	1 piece (SPQ 10) <sup>1)</sup>
HP	mm			
28	147.32	34561-028	34561-128	34561-228
42		34561-042	34561-142	34561-242
63	325.12	34561-063	34561-163	34561-263
84	431.80	34561-084	34561-184	34561-284
Torx panhead screw			24571-371	24571-371
Torx panhead screw			24571-372	24571-372
Insulation strips see		5.170 5.170	5.170	5.170
Threaded inserts see p		5.170		

<sup>1)</sup> SPQ (standard pack quantity). Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof

5.168 | nVent.com/SCHROFF



**HORIZONTAL RAILS (TYPE AB) FOR REAR I/O GUIDE RAILS** 

### **ORDER INFORMATION**



<sup>1)</sup> SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof

#### NOTE

- · All AB type horizontal rails without print
- 1000 mm version without M4 thread in end

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### THREADED INSERTS, PERFORATED STRIPS, INSULATION STRIPS

		Threaded insert		Perforated strip		Insulation strip	
		M2.5	M3		(item 1)		
	Required for fixing use collar screw 12 6.66		<sup>06103056</sup> izontal rail; St, zinc-plated;			83 x 5	28.64 .08 = 421.64 200000 2000000000000000000000000000000
Usable length HP	Length mm	M2.5 1 piece (SPQ 10) <sup>1)</sup>	M3 1 piece (SPQ 10) <sup>1)</sup>	Length	1 piece (SPQ 10) <sup>1)</sup>	Length mm	PU 10 pieces <sup>2)</sup>
28	146.82	34561-328	-	147.12	30845-197	144.20	24560-828
42	217.94	34561-342	-	218.24	30845-211	210.40	24560-842
63	324.62	34561-363	-	324.92	30845-232	316.88	24560-863
84	431.30	34561-384	34561-484	431.60	30845-253	428.64	24560-884
Accessories							
Grub screw M2.5	x 8, PU 100 pieces	21100-276	-		-		-
Grub screw M2.5	x 9, PU 100 pieces	_	-		21102-980		-
Grub screw M3 x	•	-	21100-646				-

<sup>1)</sup> SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof

### **Z-RAILS, PERFORATED RAILS**

		Z-rail for connectors		Perforated rail
		DIN EN 60603-2, DIN 41612	31-pin, DIN 41617	EN 606032, DIN 41612
		item 1	31 pm, bm 41017	item 1
		172.6 172.6 172.6 173.1 182.445	172.5 3 349 BZA4585	175,5
Usable length	Length	For connector mounting with ST horizontal rails, please order threaded insert and screw separately	For connector mounting with ST horizontal rails, please order threaded insert and screw separately	For connector mounting with VT horizontal rails, please order threaded insert and screw separately
HP	mm	1 piece	1 piece	PU 4 pieces
4	20.32	30822-166	-	20822-052
8	40.64	30822-170	-	20822-053
20	101.60	30822-025	-	20822-051
28	142.24	30822-033	-	20822-049
40	203.20	30822-045	30819-763	20822-046
42	213.36	30822-047	-	20822-050
60	304.80	30822-065	30819-783	20822-047
84	426.72	30822-089	30819-808	20822-048
Item 2, torx panhead to fix connector to pe PU 100 pieces	screw erforated rail,, M2.5 × 7,	24560-147	24560-147	24560-147
Item3, torx panhead s to fix perforated rails PU 100 pieces	screw, to horizontal rail, M2.5 × 10,	-	-	24560-148

5.170 | nVent.com/SCHROFF

<sup>2)</sup> Part no. includes one packing unit (PU); delivery is exclusively made in PU



### **TORX PANHEAD SCREWS**

### **ORDER INFORMATION**

		Description	Application	Material	Dimension	Qty/PU	Part no.
0		Panhead screw with Torx	For horizontal rail to side panel, with GND/earthing function	St, zinc-plated	M4 x 14	100	24571-371
0		Panhead screw with Torx	For horizontal rail to side panel, if guide rail is bolted onto slot 1	St, zinc-plated	M4 x 10	100	24571-372
	000	Countersunk screw with Torx	For fixing the top covers to the case frame	St, zinc-plated	M4 x 14	100	24571-373

### NUT

	Application	Material	Dimension	Qty/PU	Part no.
Square nut	For fixing: parts to side panels, support profiles, mounting plates	St, zinc-plated	M4	100	24560-140

### **ASSEMBLY TOOLS**

### **ORDER INFORMATION**

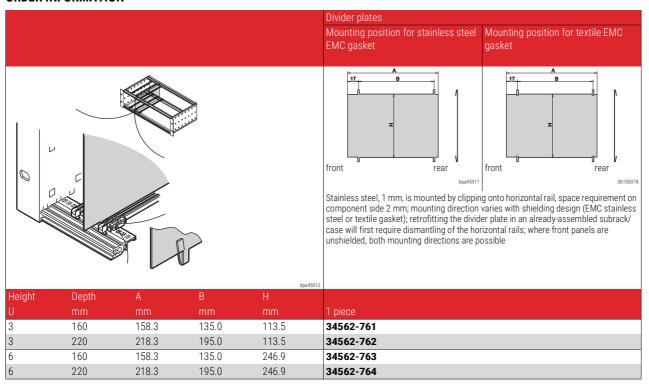
### **ORDER INFORMATION**

	Description	Application	Dimension	Qty/PU	Part no.
	Torx screwdriver		Т8	1	64560-026
AZA45925	TOTA Screwarver		T20	1	64560-027
aza45938	Assembly tool for horizontal rails	Exclusively to fix stainless steel EMC gaskets in horizontal rails	-	1	24560-271
	Assembly tool for front panels	For mounting stainless steel EMC contact strips on front panels with lateral slot	-	1	24560-270



### **DIVIDER PLATES**

### **ORDER INFORMATION**



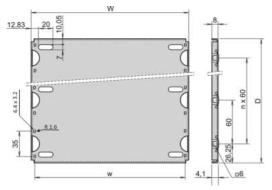
5.172 | nVent.com/SCHROFF Schroff PRODUCT CATALOG EN 02/2024



### **MOUNTING PLATES**

#### ORDER INFORMATION





06103057

#### NOTE

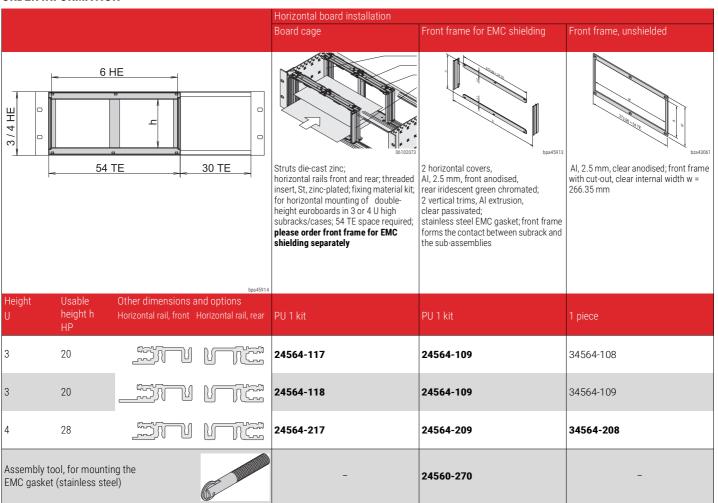
- Please order fixing material for assembly of mounting plate separately
- A guide rail can be mounted on the first and last slot position
- 4.4" and "reinforced" guide rails cannot be used

Drawing is only for visualization. Accessories are compliant with RatiopacPRO Style, RatiopacPRO and RatiopacPRO Air



### HORIZONTAL BOARD INSTALLATION

### **ORDER INFORMATION**



<sup>\*</sup> For direct backplane mounting

### **NOTE**

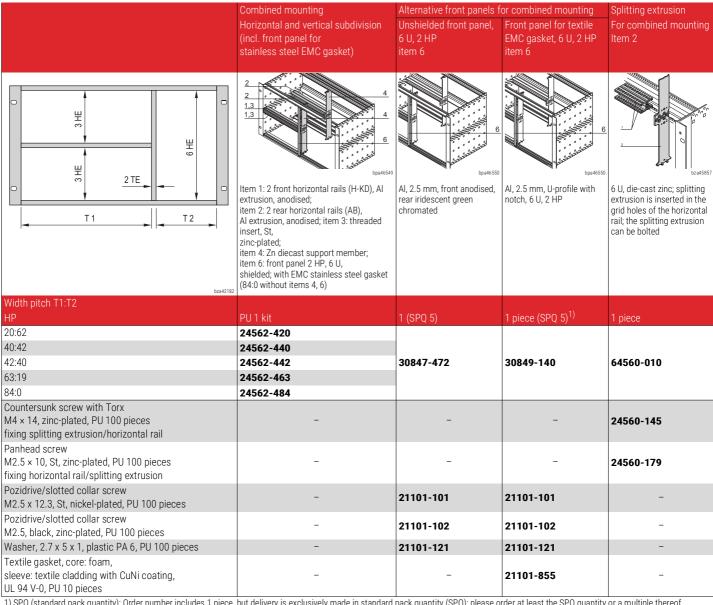
· Please order front frame separately

5.174 | nVent.com/SCHROFF



**COMBINED MOUNTINGS (6 U AND 2 X 3 U ONE ABOVE THE OTHER)** 

### **ORDER INFORMATION**



<sup>1)</sup> SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof

- Subdivision of the 6 U assembly area into:
  - 2 x 3 U
  - 1x6U
- Designed to accept Euroboards (100 mm high) and double Euroboards (233.35 mm high)

- Please order EMC gasketing kit for horizontal rails separately, see page
- Please order perforated strips for horizontal rails separately, see page
- Please order rear centre horizontal rail separately, see page 5.168



### GUIDE RAILS FOR PLUG-IN UNITS AND MODULES, ONE-PIECE, GROOVE WIDTH 2 MM AND 2.5 MM

### **ORDER INFORMATION**

			For plug-in units and frame type plug-in units Standard	With DIN connector fixing as standard
Assembly - can be clipped into Al extruded horizontal rails - can be clipped into 1.5 mm sheet metal  Storage temperature from -40 °C 130 °C			Up to 220 mm length, PC, UL 94 V-0; from 280 mm length, multi-piece,end piece PC, UL 94 V-0, central section Al extrusion	PBT, UL 94 V-0, red, connector is clipped directly onto the guide rails; for euroboards 100 x 160 mm or 100 x 220 mm only
Board lengths	Groove	Colour		
mm	width mm	mm	PU 10 pieces <sup>2)</sup>	1 pair (SPQ 10) <sup>1)</sup>
70	2	red	_	-
70	2	grey	-	-
160	2	red	24568-361	64560-074
220	2	red	24568-362	64560-075
280	2	red	24568-379	-
340	2	red	24568-380	-
160	2.5	red	-	-
220	2.5	red	-	-

### Accessories

Retention screw, PU 100 pieces



24560-141

ESD clip, PU 50 pieces **24560-255** 

Description of accessories see from page 6.43 in the EuropacPRO catalog

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<sup>1)</sup> SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof 2) Part no. includes one packing unit (PU); delivery is exclusively made in PU



### GUIDE RAILS TYPE "ACCESSORIES", ONE-PIECE, GROOVE WIDTH 2 MM AND 2.5 MM

### **ORDER INFORMATION**

			Guide rail type				
			"Accessories"	"Accessories" strengthened	For heavy modules, Al extrusion, silver, robust version		
Assembly - can be clipped into horizontal rails in Al extrusion - can be clipped into 1.5 mm sheet metal Storage temperature from -40 °C +130 °C			Up to 220 mm length, PC, UL 94 V-0;> 280 mm length, multi-piece,end piece PC, UL 94V-0, middle section Al extrusion	PC UL 94V-0, red; supportbeam of guide rails adds to strengthening (reinforced)	Al extrusion; is screwed to horizontal rail "heavy" with retention screws		
Board lengths	Groove width	Colour					
mm	mm	mm	PU 10 pieces <sup>2)</sup>	1 piece (SPQ 50) <sup>1)</sup>	1 piece (SPQ 10) <sup>1)</sup>		
100	2	red	-	-	-		
160	2	red	24568-363	64568-076	-		
160	2	grey	-	-	34562-881		
220	2	red	24568-364	64568-078	-		
220	2	grey	-	-	34562-882		
280	2	red/silver	24568-381	64568-080	34562-883		
340	2	red/silver	24568-382	-	34562-884		
400	2	red/silver	-	-	34562-885		
160	2.5	red/silver	-	64568-118	34564-881		
220	2.5	red/silver	-	64568-119	34564-882		
280	2.5	red/silver	-	64568-120	34564-883		
340	2.5	silver	-	-	34564-884		
400	2.5	silver	-	-	34564-885		

### Accessories

Retention screw, PU 100 pieces	24560-141	24560-141	24560-157
ESD clip, PU 50 pieces	24560-255		_
Board locking C, red, PU 10 pieces	24560-377		-
TPU TU piecesdescription	24560-378		-
Identification strips for board handle, red, PU 1 sheet = 438 pieces	60817-228		-
Keying / coding peg, see page	5.	.176	-

<sup>1)</sup> SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof

Description of accessories see from page 6.43 in the EuropacPRO catalog

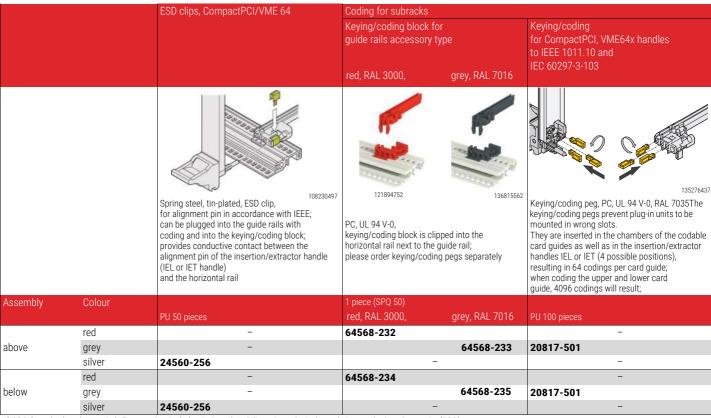
SCHROFF PRODUCT CATALOG EN 02/2024

<sup>2)</sup> Part no. includes one packing unit (PU); delivery is exclusively made in PU  $\,$ 



### **GUIDE RAIL ACCESSORIES**

### **ORDER INFORMATION**



<sup>1)</sup> SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

### **GUIDE RAIL ACCESSORIES**

### **ORDER INFORMATION**

	ESD clips for guide rails	Board locking C for PCBs without front panel; for accessory type guide rails	PCB handle C for board locking; for accessory type guide rails	Identification strips
	Spring steel, tin-plated, provides conductive contact between board and horizontal rail, on both the solder side and the component side	PBT, UL 94 V-0, red,	PBT, UL 94 V-0, red,	Polyester film, 31 x 4 mm, self-adhesive, white/matt (1 A4 sheet contains 438 pieces)
Assembly C	Colour silver	red	red	white/matt
mm	PU 50 pieces	PU 10 pieces	PU 10 pieces	1 piece
above/below	24560-255	24560-377	24560-378	60817-228

5.178 | nVent.com/SCHROFF

<sup>2)</sup> Part no. includes one packing unit (PU); delivery is exclusively made in PU



GUIDE RAILS FOR COMPACTPCI, VME64X WITH CODING, 4.4" PCBS, GROOVE WIDTH 2 MM AND 2.5 MM

### **ORDER INFORMATION**

OKDEK INFO	KIVIATIO	114						
		For CompactPCI, VME64x with coding In accordance with IEEE 1101.10 and IEC 60297-3-103		Offset 0.1" for power supply units in accordance with IEEE 1101.10 and IEC 60297-3-103		For 4.4" PCBs		
Assembly - can be clipped horizontal rails - can be clipped Storage temper	into 1.5 mm t erature							
			multi-piece at groove w end-piece PC, UL 94 V-0	,center piece Al profile	systems or plug-in units with SM	wer supplies in CompactPCI	One-piece, PBT, UL 94 for 4.4" PCBs or drive	V-0; units
Board lengths	Groove width	Colour	PU 10 pieces <sup>2)</sup>	1 piece (SPQ 50) <sup>1)</sup>	PU 10 pieces <sup>2)</sup>		PU 10 pieces	
mm	mm	mm						
70	2	red	24568-357			-		-
70	2	grey	24568-360			-		-
160	2	red	24568-356			-	24560-361	
160	2	grey	24568-358			-		-
160	2	green	-		24568-359			-
220	2	red	-			-	24560-362	
220	2	grey	-			-		-
220	2	green	-	4560 400		-		-
160 160	2.5 2.5	red		64568-109 64568-110		_		_
220	2.5	grey red		64568-111		_		-
220	2.5			64568-111		_		_
280	2.5	grey red	24568-331	U4JU0-11Z		_		-
280	2.5	grey	24568-341			_		_
340	2.5	red	24568-332			_		-
340	2.5	grey	24568-342			_		_
340	2.0	grey	24300-342					

### Accessories

ESD clip, PU 50 pieces	24560-255	-	-
ESD clips, for alignment pin, PU 50 pieces	24560-256	24560-256	-
Retention screw, PU 100 pieces	24560-141	24560-141	24560-158
Coding peg, PU 100 pieces	20817-501	20817-501	-

<sup>1)</sup> SPQ (standard pack quantity): Order number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple thereof 2) Part no. includes one packing unit (PU); delivery is exclusively made in PU

Description of accessories see from page 6.43 in the EuropacPRO catalog



### **GUIDE RAILS, MULTI-PIECE, GROOVE WIDTH 2 and 2.5 MM**

### **ORDER INFORMATION**

			Coding (IEEE) type					
				red		grey	areen	, 0,1" Offset
202					S	,, ,,	9.20	, ,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
PCBs: Fixed lengths for 160, 220	0. 280.							
340 mm;	-, =,			210		1 0		
length 1000 mm for speci				11.				
Mounting: pluggable into	horizont	al rails	900		The same		Ab a	
Storage temperature :			al.	135313686		135313698		135313710
End piece -40°C+130°C				135313686		133313096		
PVC profile 0°C +60°C			end piece, PC, UL 94 V-0,middle	end piece, PBT, UL 94 V-0,	end piece, PC, UL 94 V-0,middle	end piece, PBT, UL 94 V-0,	end piece, PC, UL 94 V-0,middle	end piece, PBT, UL 94 V-0,
red = similar RAL 300			sectionAl extrusion	middle section	sectionAl extrusion	middle section	sectionAl extrusion	middle section
grey = similar RAL 70° green = similar RAL 60°				plastic extrusion (PVC, RAL 7035)		plastic extrusion (PVC, RAL 7035)		plastic extrusion (PVC, RAL 7035)
green similar tote ooz	Z 1	Groove		(1 vo, tale 7000)		(1 40,1012 7000)		(1 70, 1012 7000)
	mm	width	1 piece (SPQ 10) <sup>1)</sup>	1 piece	1 piece (SPQ 10) <sup>1)</sup>	1 piece	1 piece (SPQ 10) <sup>1)</sup>	1 piece
		mm	(51 & 10)	(SPQ 10) <sup>1)</sup>	(51 & 10)	(SPQ 10) <sup>1)</sup>	(51 Q 10)	(SPQ 10) <sup>1)</sup>
End piece, 1 pair		2	64568-093	64568-093	64568-094	64568-094	64568-095	64568-095
Al extrusion, for 160 mm	95	2	34560-891	34564-891	34560-891	34564-891	34560-891	34564-891
board length Al extrusion, for 220 mm								
board length	155	2	34560-892	34564-892	34560-892	34564-892	34560-892	34564-892
Al extrusion, for 280 mm	215	2	34560-893	34564-893	34560-893	34564-893	34560-893	34564-893
board length	210	_	04000 070	04004 070	04000 070	04004 070	04000 070	04004 070
Al extrusion, for 340 mm board length	275	2	34560-894	-	34560-894	-	34560-894	-
board length								
Al extrusion, for any	1000	2	34560-900	34564-900	34560-900	34564-900	34560-900	34564-900
board length								0.001.700
Description	Length	Groove width	1 pioco	1 nigog	1 piggo	1 pioco	1 piece	1 piece
	mm	mm	1 piece (SPQ 10) <sup>1)</sup>	1 piece (SPQ 10) <sup>1)</sup>	1 piece (SPQ 10) <sup>1)</sup>	1 piece (SPQ 10) <sup>1)</sup>	1 piece (SPQ 10) <sup>1)</sup>	1 piece (SPQ 10) <sup>1)</sup>
End piece, 1 pair		2.5	64568-093		64568-094		64568-095	
Al extrusion, for 160	95	2.5	34562-813	_	34562-813	_	34562-813	-
mm board length Al extrusion, for 220			0.002 0.0		0.002 0.0		0.002 0.0	
mm board length	155	2.5	34562-814	-	34562-814	-	34562-814	_
Al extrusion, for 280	215	2.5	24562.015		24562.015	_	24562.015	_
mm board length	213	2.5	34562-815		34562-815	_	34562-815	
Al extrusion, for 340 mm board length	275	2.5	34562-816	_	34562-816	_	34562-816	_
Tilli board length								
Al extrusion,for any	1000	2.5	34562-822	_	34562-822	_	34562-822	_
board length	1000	2.0	04002 022		04002 022		04002 022	
Accessories						T	1	
ESD clip, PU 50 pieces	DI		24560-255	24560-255	24560-255	24560-255	24560-255	24560-255
ESD clips, for alignment p		pieces	24560-256	24560-256	24560-256	24560-256	24560-256	24560-256
Retention screw, PU 100 ptorque max. 0.2 Nm	pieces;		24560-141	24560-141	24560-141	24560-141	24560-141	24560-141
Coding peg			20817-501	20817-501	20817-501	20817-501	20817-501	20817-501
								+

<sup>1)</sup> SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ) please order at least the SPQ quantity or a multiple

### NOTE

• End pieces with coding can be used for groove width 2.0mm as well as for 2.5mm

<sup>2)</sup> Part no. includes one packing unit (PU); delivery is exclusively made in PU  $\,$ 



### GUIDE RAILS FOR COMPACTPCI, VME64X WITH CODING, PREASSEMBLED ESD CLIPS, GROOVE WIDTH 2 MM

### **ORDER INFORMATION**



#### **Accessories**

Retention screw, PU 100 pieces; torque max. 0.2 Nm	O'DE	24560-141	24560-141	
Coding peg, PU 100 pieces	And Market	20817-501	20817-501	

<sup>2)</sup> Part no. includes one packing unit (PU); delivery is exclusively made in PU

Description of accessories see from page 6.43 in the EuropacPRO catalog

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### RatiopacPRO Platform Service Plus



### Configurator

Our online chassis configurator supports countless different configuration options.

#### To configure a chassis, users can:

The look you want, the quality you need

- Select the basics of the chassis, such as height, width, depth, EMC, and air cooling.
- Choose the design style of the chassis, including the color of the top/bottom/side covers, side frame, rubber strip, and graphics.
- Design the frame of the chassis, including the front frame design and rear frame design.
- Choose the board mechanics of the chassis, such as front panels, mounting front, rear panels, and mounting rear.



How to start the RatiopacPRO Style Configurator? Default start configuration Height: 3U - Basics M Design Frame > Depth: 295.5mm > Front and Back Protection: Trim C. Design Style

> have the option to download STEP files for further modifications. In case any details are unclear, our team will reach out to you to clarify the next steps.





#### RATIOPACPRO STYLE: DESKTOP & PORTABLE ENCLOSURE PRODUCT CONFIGURATOR



Link to the configurator: https://configurators.schroff.biz/ratiopacpro-style

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# RatiopacPRO Platform Service Plus





### **APPLICATION EXAMPLES**

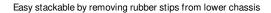


RatiopacPRO Style with card cage for 19 boards



RatiopacPRO Style full-width screwless front panel and mounting plate







Custom print and design available on request



### Desk-top cases - Introduction

### CASE TYPES: DESK-TOP ENCLOSURE/19" CASE



Desk-top enclosure, RatiopacPRO Style

19" case, comptec

### Desk-top enclosures

Our desk-top cases are used to house PCBs (euroboards) or individual components

The choice is yours:

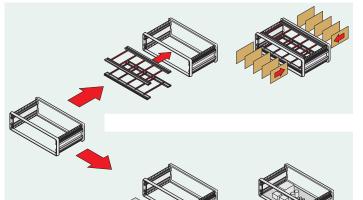
- RatiopacPRO Style or RatiopacPRO / Pro Air, the universal case with 19" compatible dimensions and high EMC shielding, e.g. for CompactPCI and VME64x applications
- PropacPRO, the robust case with high EMC shielding for 19"-compatible or custom electronics assemblies
- · CompacPRO, Desk-top or portable case for unshielded applications

#### 19" cases

Our comptee cases are comparable with small cabinets and are used to house 19" components such as subracks, 19" fan trays or 19" front panels

All desk-top enclosures have a very low weight owing to the materials used and are also suitable for mobile use

### APPLICATIONS FOR DESK-TOP ENCLOSURES



The most important user domains for desk-top enclosures are:

• Fitting with euroboards in accordance with IEC 60297



Fitting with individual electrical or mechanical components, e.g.on mounting plates



### ONE PRODUCT PLATFORM AND EXTENSIVE ACCESSORIES

 Practical technology without time-consuming assembly. The modular product platform of these cases allows a wide range of possible uses with only a small number of components.

The intelligent design of all components results in an astonishingly quick and easy assembly of the components.

With our PRO product platform we offer you full compatibility of all individual components and accessories, also with our europacPRO subracks.

Standard desk-top enclosures can also be adapted easily and with little effort for mobile applications.



### Desk-top cases - Introduction

SCHROFF

### FORMS OF DELIVERY FOR DESK-TOP ENCLOSURES



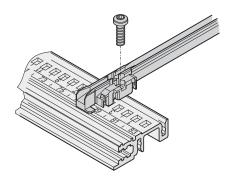
Flat pack delivery to save space

Supplied in space-saving packs. Simply unpack parts and screw together -done.

Depending on the kit chosen the threaded insert, the perforated rail or the EMC gasket is pre-assembled on the horizontal rail.

We offer you three forms of delivery:

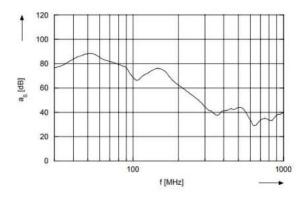
- Pre-assembled empty case kit for individual configuration, frame assembled, cladding parts supplied loose.
- Ready assembled cases to your specifications. With our ServicePLUS option you can order ready-assembled cases, with drilled holes and cutouts and individual front panels
  - if necessary even by express service -.



 Guide rails form the interface between the mechanics of the case and the electronics assembled (PCBs, plug-in units, frame type plug-in units, drive unit modules, etc.).

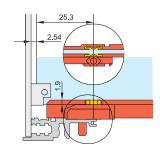
Robust snap-in fixings on the plastic rails assure that the components are held securely, even when exposed to vibrations.

Guide rails can also be screwed on.



- Our case product platforms offer standard solutions for achieving electromagnetic compatibility (EMC) and to avoid electrostatic interference (ESD)
- Shielding on the front and rear of the case is effected by front panels with EMC gaskets
- To prevent electrostatic discharge when inserting PCBs, ESD contacts are clipped into the guide rails. These provide a conductive connection between board and case earth/ground
- · Test reports are available on our website for download

Shielding



Position of the ESD clip

04503050

### **North America**

Warwick, RI, USA Tel +1.401.738.1722 San Diego, CA, USA Tel +1.858.740.2400

### **Europe, Middle East & India**

Straubenhardt, Germany

Tel +49 7082 794 0

Betschdorf, France

Tel +33 3 88 90 64 90

Warsaw, Poland

Tel +48 22 209 98 35

Hemel Hempstead,

**Great Britain** 

Tel +44 1442 24 04 71

Lainate, Italy

Tel +39 02 932 714 1

**Dubai, United Arab Emirates** 

Tel +971 4 82 38 666

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