

CONNECT AND PROTECT

EuropacPRO Rugged



nvent schroff

Subracks - EuropacPRO Rugged

OVERVIEW

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Cabinets	1
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Connectors, front panel component system 11

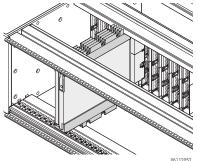
Appendix 12



06112020



"rugged" horizontal rail with 3 hole fixing for increased stability (+60 % compared to 2 hole fixing of "heavy" horizontal rail)



Special adaptor rails allow conducted cooled assemblies to be fitted



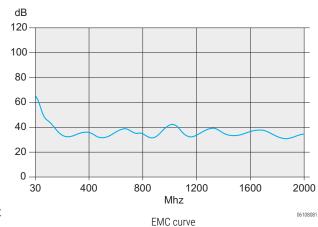
Shock and vibration resistant in all three axial directions

Standards/Approvals

- Internal and external dimensions in accordance with: IEC 60297-3-100, -101, -102, -103, -104, -105, IEEE 1101.1, IEEE 1101.10/11
- Type of protection IP 20, in accordance with IEC 60529
- EMC testing to IEC 61587-3
- Shock and vibration test report; MIL 167, IEC 61587 DL 3, MIL 810 G, MIL 901

Note

- · Other finishes e.g. yellow chromated on request
- Subrack with telescopic slides can be adapted for cabinet mounting on request



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OVERVIEW

Overview	 6.92
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Introduction . . . 6.4

19" SUBRACKS

- · Shock and vibration resistant up to 25 g
- · Kits or individually configured subracks
- A product and accessory platform for the most different customers' requirements and applications
- Suitable for CompactPCI and VMEbus insertion and extractor handles
- · EMC shielding can easily be retrofitted
- 3D PDF or CAD 3D data available for download



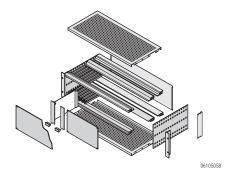


Kits

- · All required parts are available under one part number, even partly assembled
- Most popular versions and dimensions available from stock
- For installed loads over 15 kg up to 60 kg
- · Supplied as a space-saving flat pack

ServicePLUS individual configuration

- Single parts may individually be configured, respectively assembled on request (from quantity 1)
- · Wide range of variants in heigth, width and depth
- · Guide rails for different applications
- · EMC shielding material to improve EMC performance
- · Other accessories and assembly kits



ServicePLUS

e.g. modification (cut-outs)

e.g. downloads (CAD drawings, user manuals, test reports)

e.g. custom solutions (special depths, electromagnetically shielded applications)

configuration	•	•	•	6.97

Individual

ServicePLUS Application examples	
europacPRO	
Subracks for mobile railway applications	6.70

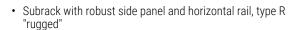
europacPRO for industrial

applications . . . 6.86



KIT, RUGGED, SHIELDED,





- Rear horizontal rail for backplane mounting with insulation strip
- Shielding typically 40 dB at 1 GHz, 30 dB at 2 GHz (as per VG 95373, part 15), on condition that the front is closed with sealed front panels
- Shock and vibration resistant to $25\,g$

DELIVERY COMPRISES (Kit)

			· /
Item	Qty		Description
	3 U	6 U	
1	2	2	Side panel type R, Al, 3 mm, clear passivated, with 19" support bracket 3.5 mm (tox-cold welded); for EMC gasketing (textile)
2	2	2	Front handle incl. fixing material kit
3	2	2	Rear corner profile for EMC gasketing (textile)
4	1	-	Front horizontal rail (R-KD)
4a	1	2	Front horizontal rail (R-LD)
4b	2	2	Rear horizontal rail (H-KD)
4c	2	2	Rear horizontal rail, centre (R-ST)
4d	-	1	Rear horizontal rail, centre (ST)
5	6	8	Threaded insert (pre-fitted)
6	2	2	Perforated strip (pre-fitted)
7	2	4	Insulation strip (pre-fitted)
8	2	2	EMC cover plate, rugged, with top cover locking
9	1	1	EMC rear panel
10	1	1	EMC gasketing material, fixing material kit, user manual

ORDER INFORMATION

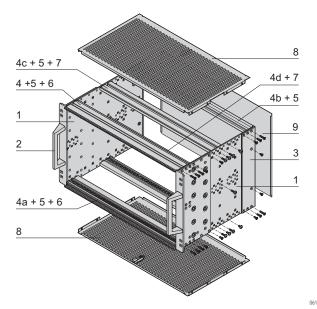
U	HP	mm	mm	
3	84	295	175	24567-149
6	84	295	175	24567-449
Accessorie	es			
Guide rails, PBT, UL 94	24560-351			
	ad screw 2.5 × ces; torque max	9.3, zinc-plated, . 0.2 Nm		24560-141
ESD clip for	r guide rails PU	50 pieces		24560-255
Guide rail a groove wid 1 piece (SP	on, 34562-881			
Torx pan he 100 pieces;	24560-157			
	PX applications	nduction cooled a , 160 mm deep, Pl		24566-004
Adaptor to CompactPO PU 1 pair; in) for 24566-005			
	9	t suitable for a sub s and nuts), PU 1 k		24566-109

06112054

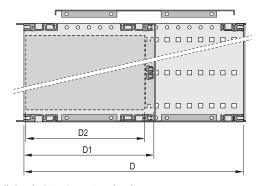
- Test reports online
- For further accessories see from page 6.19



Illustration shows 3 U subrack



6 U



D = overall depth, D1 = insertion depth, D2 = board depth = D1 - 15 mm



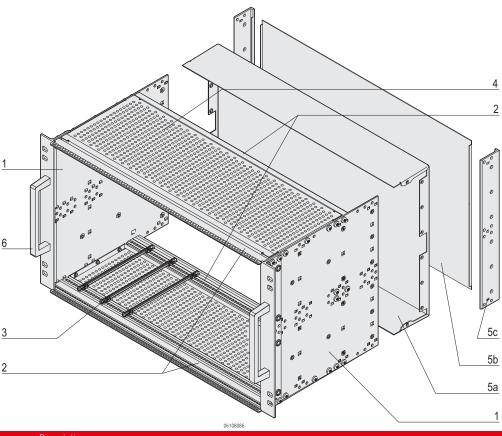
Rear horizontal rail for backplane mounting with insulation strip

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OVERVIEW OF INDIVIDUAL COMPONENTS FOR SHIELDED OR UNSHIELDED SUBRACKS



Item	Description	Description	page
Item 1	Side panels	Establish the height and depth of the subrack; Al, 3 mm, with universal hole positions for mounting of accessories	6.97
Item 2	Horizontal rails	Establish the width of the subrack; Al extrusion, with defined hole positions for guide rails, grooves for threaded inserts, M4 thread at front, functional rail shapes, basically differing with regard to their mechanical loading capacity: rugged loading up to 15 kg	6.98
Item 3	Guide rails	Guide rails act as interface between subracks and boards, for different board formats, are available in plastic or metal, optionally codable and optionally can be fitted with ESD clip to allow electrostatic discharge	6.105
Item 4	Cover plates	Provide mechanical protection and/or EMC shielding and are perforated	6.108
Item 5	Rear/front	Rear hood (5a) or front panel (5b) with corner profile (5c) as support for EMC shielding gaskets used in conjunction with shielded front panels; Note: rear hood and corner profile cannot be fitted simultaneously	6.49
Item 6	Handles	Handles can be mounted on the 19" brackets	6.97
-	EMC shielding (without illustration)	Extensive component range for specific shielding of subrack according to your application	6.110
-	Internal mounting (without illustration)	Universal assemblies, e.g. for horizontal and vertical mounting and for mounting plates	6.109 6.60

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SIDE PANEL TYPE R, EMC SEALING, CORNER PROFILE, FRONT HANDLE

ORDER INFORMATION

		Side panel type R for textile	EMC textile gasket	Corner profile, rugged	Front handle
		gasket			
	66 112054 60 112056	Side panel, Al 3 mm, tox-cold welded with 19" Al bracket, 3.5 mm with handle hole, clear passivated, front anodised; please order front handles separately	Textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0, temperature range -40 70 °C	Al extrusion, 3 mm, finish clear passivated; with lateral grooves for EMC stainless steel gasket; rear hood cannot be used simultaneously	Die-cast Al profile, powder-coated, RAL 9006; load-carrying capacity 30 kg, fixing material kit
Height U	Depth mm	PU 1 pair	PU 10 pieces	PU 1 pair	PU 1 kit
3	175	24568-145	1 0 10 pieces	1 o i paii	TO TRIC
3	235	24568-147			
3	275	24568-143			
3	277.75	24568-144	21101-853	24566-199	24566-010
3	295	24568-149			
3	355	24568-151			
6	175	24568-445			
6	235	24568-447			
6	275	24568-443	21101-855	24566-499	24566-010
6	277.75	24568-444	21101-000	24300-499	24300-010
6	295	24568-449			
6	355	24568-451			
Fixing m	aterial kits see page 6.103				

Fixing material kits see page 6.103

SIDE PANEL, TYPE R

- For high mechanical demands up to 25 g (vibration resistance, shock and vibration requirements to e.g. IEC 61587-DL 3)
- 19" bracket is fixed firmly to side panel (tox-cold welded)
- Height 3 U and 6 U
- Depths 175, 235, 275, 277.75, 295 and 355 mm
- EMC shielding concept for front/rear with EMC textile gasket
- Other dimensions on request



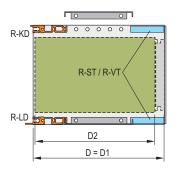
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06112064

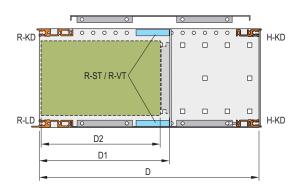
Subracks - EuropacPRO Rugged

MOUNTING POSITION OF HORIZONTAL RAIL/CENTRAL RAILS

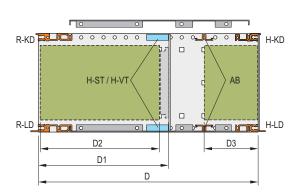
3 U (board depth 160, 220, 280 mm)



3 U (board depth 160, 220, 280 mm)



3 U (for CompactPCI/VME64x applications)



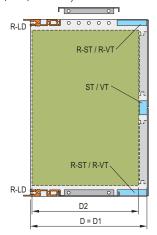
Horizontal rails R-ST





R-VT

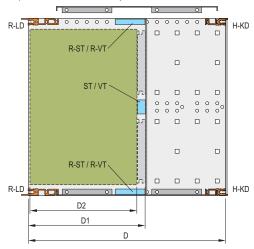
6 U (board depth 160, 220, 280 mm)



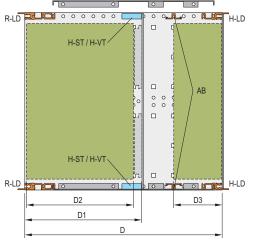
6 U (board depth 160, 220, 280 mm)

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06112063



6 U (for CompactPCI/VME64x applications)



H-ST

06112065



06112066

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H-VT



FRONT HORIZONTAL RAILS

ORDER INFORMATION

		With long lip for insertion/ extraction of CompactPCI and VME64x boards	With long lip for insertion/ extraction of CompactPCI and VME64x boards	With short lip	With short lip
With HP markings from Al extrusion, anodised fi		"rugged" Type R-LD long lip 06112004 Al extrusion, anodised finish, conductive contact surface,	"heavy" Type H-LD long lip 061977009 Al extrusion, anodised finish, conductive contact surface,	"rugged" Type R-KD short lip 06112013 Al extrusion, anodised finish, conductive contact surface,	"heavy" Type H-KD short lip 06197008 Al extrusion, anodised finish, conductive contact surface,
conductive contact surf. Usable length	Length	with HP markings 1 piece (SPQ 10) ¹⁾	with HP markings	with HP markings	with HP markings 1 piece (SPQ 10) ¹⁾
20	mm 106.68	34566-320	34560-320	34566-220	34560-220
28	147.32		34560-328		
20				101566 000	24560 220
40				34566-228	34560-228
40	208.28	34566-340	34560-340	34566-240	34560-240
42	208.28 218.44	34566-340 34566-342	34560-340 34560-342	34566-240 34566-242	34560-240 34560-242
42 63	208.28 218.44 325.12	34566-340 34566-342 34566-363	34560-340 34560-342 34560-363	34566-240 34566-242 34566-263	34560-240 34560-242 34560-263
42	208.28 218.44 325.12 431.80	34566-340 34566-342 34566-363 34566-384	34560-340 34560-342 34560-363 34560-384	34566-240 34566-242 34566-263 34566-284	34560-240 34560-242 34560-263 34560-284
42 63 84 - Cover strips to cover the horizontal rail perforations Al, untreated, 0.8 mm length 431.5 mm, 1	208.28 218.44 325.12 431.80 1000	34566-340 34566-342 34566-363 34566-384	34560-340 34560-342 34560-363	34566-240 34566-242 34566-263	34560-240 34560-242 34560-263
42 63 84 - Cover strips to cover the horizontal rail perforations Al, untreated, 0.8 mm	208.28 218.44 325.12 431.80 1000	34566-340 34566-342 34566-363 34566-384 34566-301	34560-340 34560-342 34560-363 34560-384	34566-240 34566-242 34566-263 34566-284 34566-201	34560-240 34560-242 34560-263 34560-284

¹⁾ 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 "heavy" load > 7.5 kg; "rugged" load > 15 kg;

NOTE

- 1000 mm version without M4 thread to front, without printing and without notch for 19"-bracket
- EMC gasket see page 6.56
- For further horizontal rails see page 6.29



REAR HORIZONTAL RAILS

ORDER INFORMATION

		For indirect ba with insul:		For direct bar	ckplane fixing	For direct fixing of connectors in accordance with EN 60603-2 (DIN 41612)
			0440001		04400002	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		"rugged"	"heavy"	"rugged"	"heavy"	"heavy"
		Type R-ST	Type H-ST	Type R-VT	Type H-VT	Type H-MZ
		Standard	standard	recessed installation	recessed installation	with Z-rail
With HP markings fr Al extrusion, anodise conductive contact s	d finish, surface	Al extrusion, anodised finish, conductive contact surface, with HP markings	Al extrusion, anodised finish, conductive contact surface, with HP markings	Al extrusion, anodised finish, conductive contact surface, with HP markings	Al extrusion, anodised finish, conductive contact surface, with HP markings	Al extrusion, anodised finish, conductive contact surface, with HP markings
Usable length HP	Length	1 piece (SPQ 10) ¹⁾				
20	mm 106.68	34566-520	34560-520	34566-720	34560-720	34560-920
28	147.32	34566-528	34560-528	34566-728	34560-728	34560-928
40	208.28	34566-540	34560-540	34566-740	34560-720	34560-920
42	218.44	34566-542	34560-542	34566-742	34560-742	34560-942
63	325.12	34566-563	34560-563	34566-763	34560-763	34560-963
84	431.80	34566-584	34560-584	34566-784	34560-784	34560-984
-	1000	34566-501	34560-501	34566-701	34560-701	-
Insulation strips s		6.104	6.104	-	-	-
Threaded inserts :		6.104	6.104	6.104	6.104	6.104
Fixing material kit	, ,	6.103	6.103	6.103	6.103	6.103
	1 0	her includes 1 piece, but de				

¹⁾ 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 "heavy" load > 7.5 kg; "rugged" load > 15 kg;

NOTE

- 1000 mm version without M4 thread to front, without printing and without notch for 19"-bracket
- EMC gasket see page 6.56
- For further horizontal rails see page 6.29

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REAR HORIZONTAL RAILS, CENTRE, FOR 6 U

ORDER INFORMATION

		For indirect backplane fixing with insulation strip	For direct backplane fixing	For direct fixing of connectors in accordance with EN 60603-2 (DIN 41612
		0440001	0440002	Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q
		Type ST	Type VT	Type MZ
				and the state of t
	06108090	06197016	06197017	06197018
		Al extrusion, finish anodised, conductive contact surface; without markings	Al extrusion, finish anodised, conductive contact surface; without markings	Al extrusion, finish anodised, conductive contact surface; without markings
Usable length	Length	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾
HP	mm			
20	106.68	34561-020	34561-120	34561-220
28	147.32	34561-028		34561-228
40 42	208.28 218.44	34561-040	34561-140	34561-240
63	325.12	34561-042 34561-063	34561-142 34561-163	34561-242 34561-263
84	431.80			
04	1000	34561-084 34561-001	34561-184 34561-101	34561-284 34561-201
Insulation strips s		6.104	-	-
Threaded inserts		6.104	6.104	6.104
Fixing material ki		6.103	6.103	6.103
		her includes 1 niece, but delivery is exclusively made		0.100

¹⁾ 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 "heavy" load > 7.5 kg; "rugged" load > 15 kg;

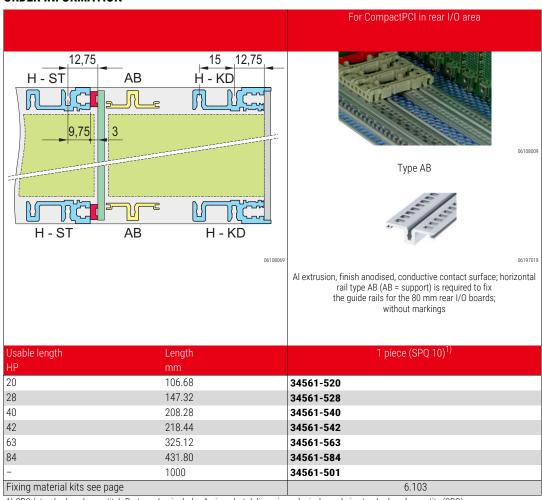
NOTE

- · All horizontal rails without printed markings
- 1000 mm version without M4 thread to front



HORIZONTAL RAILS (TYPE AB) FOR REAR I/O APPLICATIONS

ORDER INFORMATION



¹⁾ 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 "heavy" load > 7.5 kg; "rugged" load > 15 kg;

NOTE

- · All horizontal rails without printed markings
- 1000 mm version without M4 thread in end

6.102 | nVent.com/SCHROFF SCHROFF PRODUCT CATALOG 09/2018



SCREWS OVERVIEW

	Description	Material	Dimension	Qty/PU	Part no.
06712051	Countersunk screw, with thread locking compound Application: Rugged side panel to horizontal rail; for area of tox-cold welded brackets and corner profiles except when guide rail is fitted to slot 1	Stainless steel	M4 x 18	100	24566-100
06712051	Countersunk screw, with thread locking compound Application: Rugged side panel to horizontal rail; for area of tox-cold welded brackets and corner profiles if guide rail is fitted to slot 1	Stainless steel	M4 x 14	100	24566-101
aza45940	Panhead screw, with thread locking compound Application: Rugged side panel to horizontal rail; not for area of tox-cold welded brackets and corner profiles except when guide rail is fitted to slot 1	Stainless steel	M4 x 14	100	24566-102
06712053	Panhead screw, with thread locking compound Application: Rugged side panel to horizontal rail; not for area of tox-cold welded brackets and corner profiles if guide rail is fitted to slot 1	Stainless steel	M4 x 10	100	24566-103
06712053	Panhead screw, with thread locking compound Application: Rugged side panel to cover plate, not for area of tox-cold welded brackets and corner profiles	Stainless steel	M4 x 8	100	24566-104
06708053	Torx countersunk screw, with thread locking compound Application: : Rugged side panel to cover plate, for area of tox-cold welded brackets and corner profiles	Stainless steel	M4 x 10	100	24566-106
06708053	Torx countersunk screw, with thread locking compound Application: Rugged side panel to corner profile; in EMC-shielded subracks and to increase robustness	Stainless steel	M4 x 7	100	24566-105
AZA45921	Square nut Application: Rugged side panel to corner profile; in EMC-shielded subracks and to increase robustness	Zinc-plated steel	M4	100	24560-140

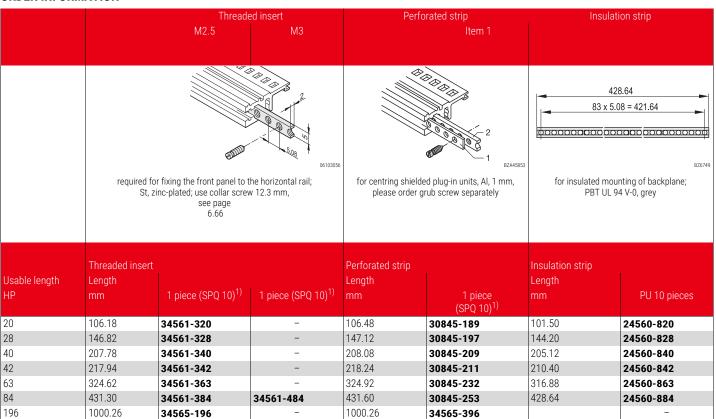
NOTE

• Stainless steel screws; with organic surface layer (silver)



THREADED INSERTS, PERFORATED STRIPS, INSULATION STRIPS

ORDER INFORMATION



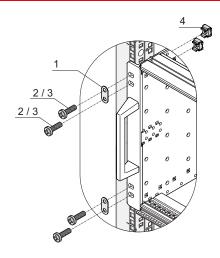
Accessories

ACCESSORIES						
Grub screw M2.5 x 8, PU 100 pieces	21100-276	-	-	-	-	-
Grub screw M2.5 x 9, PU 100 pieces	_	_	-	21101-359	_	_
Grub screw M3 x 8. PU 100 pieces	-	21100-646	-	_	-	-

¹⁾ 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

Part no. includes one packing unit (PU); delivery is exclusively made in PU

19" DUAL FIXING MATERIALS KIT



 For fixing a subrack with dual fixing holes to 19" mounting brackets (e.g. rugged and railroad subracks)

DELIVERY COMPRISES

Item	Qty	Description
1	4	Double washer, stainless steel
2	8	M6 x 16 (Torx 30 drive)
3	8	M6 x 16 (Pozidrive)
4	8	Cage nut KM6
1	4	User manual

ORDER INFORMATION

Description	Part no.
19" dual fixing materials kit	24566-109

0611305

6.104 | nVent.com/SCHROFF



ADAPTOR TO ACCOMMODATE CONDUCTION COOLED ASSEMBLIES (CCA)

ORDER INFORMATION



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

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

ORDER INFORMATION

				rame type plug-in units ndard"	
Assembly Plastic guide rail - can be clipped into Al extruded horizontal rails - can be clipped into 1.5 mm thick plates Storage temperature from -40 °C 130 °C		S	Oct. 1020		
			up to 220 mm length, PBT, UL 94 V-0; from 280 mm length, multi-piece, end piece PBT, UL 94 V-0, central section Al extrusion	PBT, UL 94 V-0	
Board length	Groove width	Colour			
mm	mm	mm	PU 10 pieces ²⁾	1 piece (SPQ 50) ¹⁾	
70	2	red	-	34579-230	
70	2	grey	-	34579-231	
160	2	red	24560-351	64560-001	
220	2	red	24560-353	64560-002	
280	2	red	24560-379	-	
340	2	red	24560-380	-	
160	2.5	red	-	64560-096	
220	2.5	red	-	64560-098	

Accessories

Retention screw, PU 100 pieces; Torque max. 0.2 Nm	24560-141	24560-141
ESD clip, PU 50 pieces	24560-255	24560-255

¹⁾ 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

Description of accessories see from page 6.107

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



GUIDE RAILS FOR HEAVY ASSEMBLIES, COMPACTPCI, VME64X

ORDER INFORMATION

Assembly - can be clipped into Al extruded horizontal rails - can be clipped into Al extruded horizontal rails - can be clipped into 1.5 mm thick plates Storage temperature from -40 °C 130 °C One-piece for groove width 2 mm, PBT, UL 94 V-0, multi-piece for groove width 2 mm, PBT, UL 94 V-0, multi-piece for groove width 2.5 mm, end piece PBT, UL 94 V-0, middle section Al extrusion Board length Groove Colour width mm	lulae Allaytrucian cilvar
Assembly Can be clipped into Al extruded horizontal rails Can be clipped into Al extruded horizontal rails Can be clipped into Al extruded horizontal rails Can be clipped into I.5 mm thick plates	bust version
Can be clipped into 1.5 mm thick plates Storage temperature from -40 °C 130 °C	
Doe-piece for groove width 2 mm, PBT, UL 94 V-0; multi-piece for groove width 2.5 mm, end piece PBT, UL 94 V-0, mildle section AI extrusion PBT, UL 94 V-0, mildle section AI extrusion PBT, UL 94 V-0, mildle section AI extrusion PIU 10 pieces. 2) PU 1	
width mm mm nm 70 2 red 24560-355 - 70 2 grey 24560-360 - 160 2 red 24560-356 - 160 2 grey 24560-358 - 34562-881 160 2 green - 24560-359 - 34562-882 220 2 green - - 34562-883 160 2.5 grey - - 34564-881 220 2.5 red 24561-330 - - 220 2.5 grey 24561-340 - 34564-882 280 2.5 red 24561-331 - 34564-882	Al extrusion; s screwed to ontal rail "heavy" retention screws
mm mm mm mm 70 2 red 24560-355 - 70 2 grey 24560-360 - 160 2 red 24560-356 - 160 2 grey 24560-358 - 34562-881 160 2 grey - 24560-359 - 34562-882 220 2 green - - 34562-883 160 2.5 grey - - 34564-883 160 2.5 grey - - 34564-881 220 2.5 red 24561-330 - - 34564-882 280 2.5 red 24561-331 - 34564-882	ece (SPQ 10) ¹⁾
70 2 red 24560-355 - <t< th=""><th></th></t<>	
70 2 grey 24560-360 - <	_
160 2 red 24560-356 - 34562-881 160 2 grey - 24560-359 34562-882 220 2 grey - - 34562-882 220 2 green - - 34562-883 160 2.5 grey - - 34564-881 220 2.5 red 24561-330 - - 220 2.5 grey 24561-340 - 34564-882 280 2.5 red 24561-331 - -	_
160 2 grey 24560-358 - 34562-881 160 2 green - 24560-359 220 2 grey - - 34562-882 220 2 green - - 34562-883 160 2.5 grey - - 34564-881 220 2.5 red 24561-330 - - 220 2.5 grey 24561-340 - 34564-882 280 2.5 red 24561-331 -	_
160 2 green - 24560-359 220 2 grey - - 34562-882 220 2 green - - 34562-883 160 2.5 grey - - 34564-881 220 2.5 red 24561-330 - - 220 2.5 grey 24561-340 - 34564-882 280 2.5 red 24561-331 -	
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220 2.5 red 24561-330 - 220 2.5 grey 24561-340 - 34564-882 280 2.5 red 24561-331 -	
220 2.5 grey 24561-340 – 34564-882 280 2.5 red 24561-331 –	-
280 2.5 red 24561-331 –	
	-
280 2.5 grey 24561-341 – 34564-883	
Accessories	
ESD clips, PU 50 pieces 24560-255 –	-
ESD clips, for alignment pin, PU 50 pieces 24560-256 24560-256	-
Retention screw, PU 100 pcs.; torque max. 0.2 Nm 24560-141 24560-141 24560-157	
Coding peg, PU 100 pieces 20817-501 20817-501	_

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

Description of accessories see from page 6.107

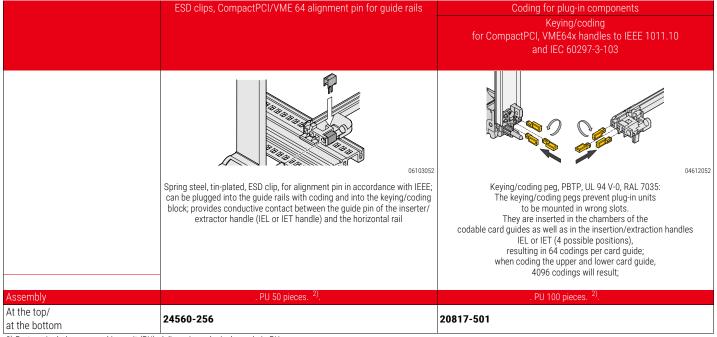
6.106 | nVent.com/SCHROFF SCHROFF

²⁾ Order number includes one packaging unit (PU); delivery is exclusively made in PU



GUIDE RAIL ACCESSORIES

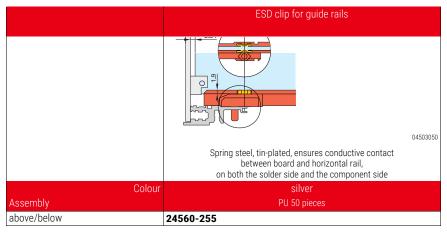
ORDER INFORMATION



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

GUIDE RAIL ACCESSORIES

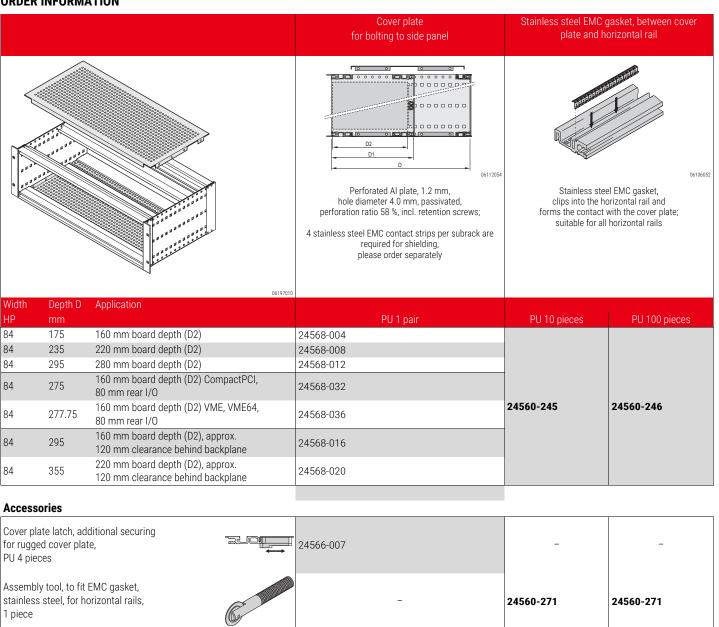
ORDER INFORMATION





COVER PLATES FOR BOLTING TO RUGGED SIDE PANEL

ORDER INFORMATION



NOTE

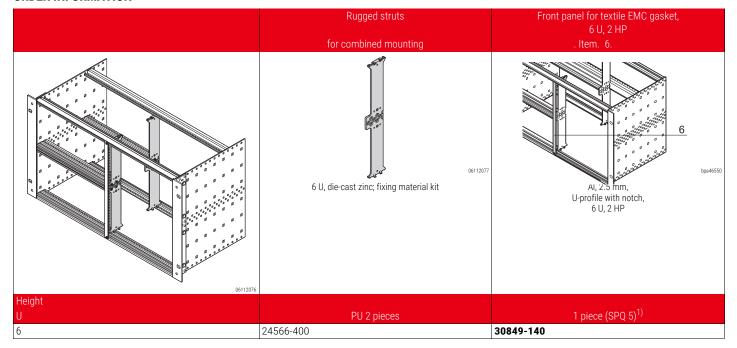
- · Cover plates without perforation available on request
- Mounting position of horizontal rails, see page 6.98

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

ORDER INFORMATION



Accessories

Pozidrive/slotted collar screw M2.5 x 12.3, St, nickel-plated, PU 100 pieces	-	21101-101
Pozidrive/slotted collar screw M2.5, black, zinc-plated, PU 100 pieces	_	21101-102
Washer 2.7 x 5 x 1, PA 6, PU 100 pieces	_	21101-121
Textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0, PU 10 pieces	-	21101-855

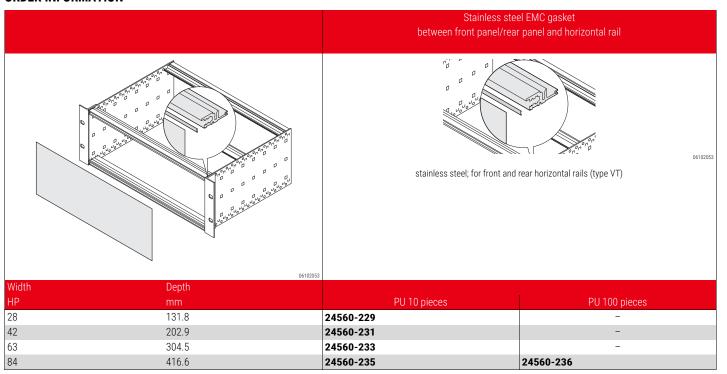
NOTE

• Rugged horizontal rails in various lengths, see page 6.99



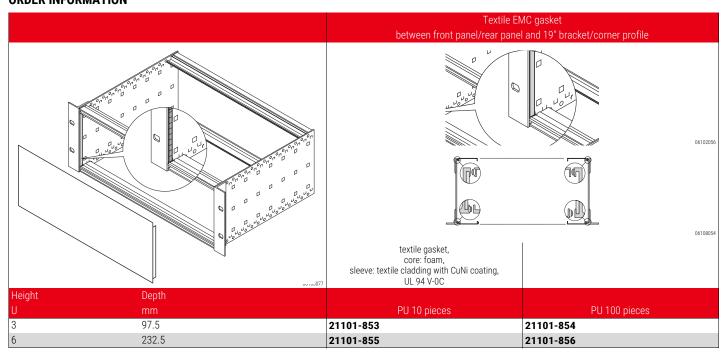
EMC GASKETS BETWEEN FRONT/REAR PANEL AND HORIZONTAL RAIL

ORDER INFORMATION



EMC GASKETS BETWEEN FRONT PANEL AND 19" BRACKET/CORNER PROFILE

ORDER INFORMATION

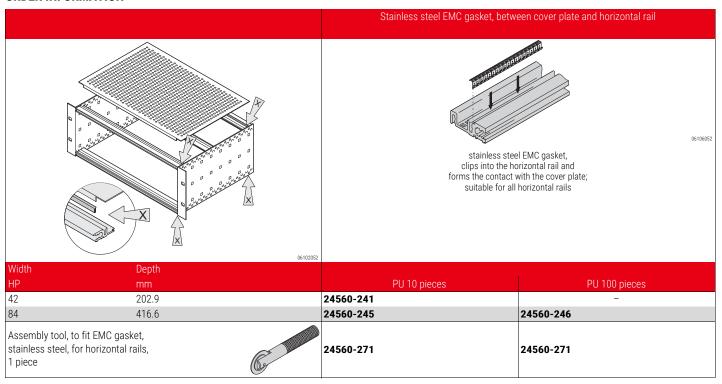


6.110 | nVent.com/SCHROFF SCHROFF



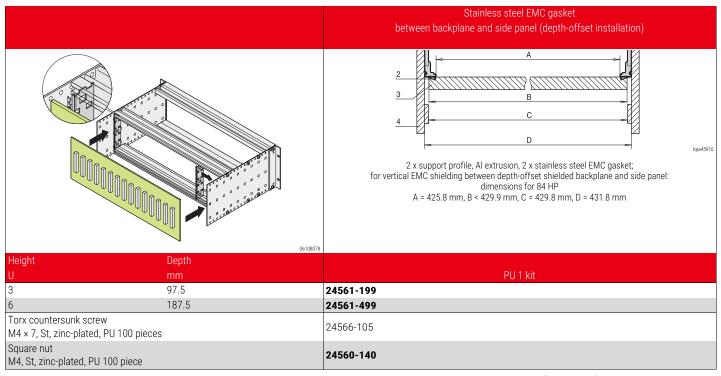
EMC GASKET BETWEEN HORIZONTAL RAIL AND COVER PLATE

ORDER INFORMATION



EMC GASKET BETWEEN BACKPLANE AND SIDE PANEL

ORDER INFORMATION



With appropriate design, the backplane can be used as shielded rear wall of the rack; in this case a rear horizontal rail (L-type VT or H-VT) must be used for deeper installation to ensure the horizontal contact.

For vertical contact the support profile can be fixed in the standard way to the europacPRO side panel (depth grid 30 mm



Subracks – EuropacPRO

PLATFORM-BASED STANDARD SOLUTIONS FOR INDIVIDUAL REQUIREMENTS

Practical technology without time-consuming assembly. The modular europacPRO product platform allows a wide range of possible applications with only a few components. The intelligent design of all components results in remarkably simple and fast management in assembly and components.

Two ways of reaching your desired product:

Kits

06107001

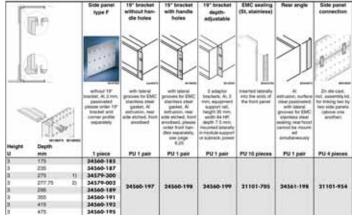
· Individual configuration

Simple assembly with europacPRO kits:



Delivered in space-saving flat packs. The threaded inserts or EMC gasket (depending on selected kit) are already pre-mounted on the horizontal rail.

Individual configuration:



06109052

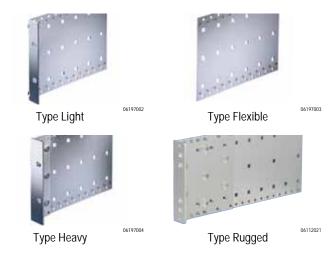
You design your subrack as you wish, then receive it fully assembled via our **ServicePLUS** assembly service (even for orders of just one). We can also carry out individual modifications and cut-outs; and when time is short can do so very fast via ServicePLUS express.

HORIZONTAL RAILS AND SIDE PANELS FOR DIFFERENT LOAD-CARRYING CLASSES



Horizontal rails are available for three load classes:

- "light" (load up to approx. 7.5 kg)
- "heavy" (load > 7.5 kg)
- "rugged" (load 15 kg)



Side panels for 4 different load classes

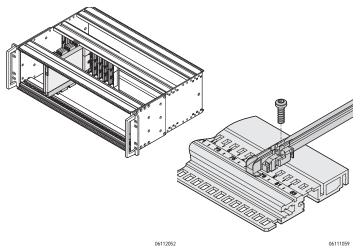
- Light: low-cost version with built-in 19" mounting bracket
- Flexible: with separate, depth-adjustable 19" mounting bracket
- Heavy: with integrated, tox-cold welded 19" mounting bracket, e.g. for shock and vibration environments up to 5 g
- Rugged: with integrated, tox-cold welded 19" mounting bracket and higher material thicknesses for extreme mechanical stresses, e.g. for increased shock and vibration environments up to 25 g
- The combination of the 3 horizontal rail variants with the 4 types of side panel results in an almost unlimited variety of potential applications for various market requirements

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Subracks – EuropacPRO

GUIDE RAILS FROM PLASTIC AND ALUMINIUM PROFILES



Guide rails form the interface between the subrack mechanics and the assemblies (boards, plug-in units, frame type plug-in units, drive unit modules, ...).

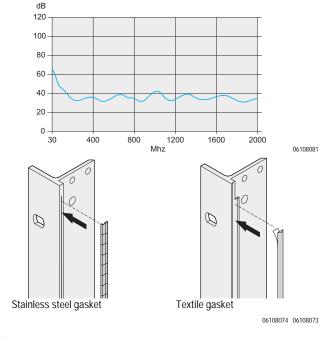
Robust snap-in fixings on the plastic rails assure a secure grip, even when exposed to vibrations. In the case of H and R-type horizontal rails the guide rails can also be bolted on. For extreme stresses, guide rails in aluminium extrusion are used.

To ensure that the wrong subassembly is not inserted into the wrong space we offer a mechanical coding to IEEE 1101.10/11 and IEC 60297-3-103.

The continuous numbering on the horizontal rail (from 28 HP) and the markings on the guide rails facilitate quick fitting in the correct position.

We offer the appropriate adaptors for accommodating VPX or CompactPCI boards with strengthening frame or conduction-cooled assemblies (CCA) installed in a subrack.

ELECTROMAGNETIC SHIELDING AND ESD



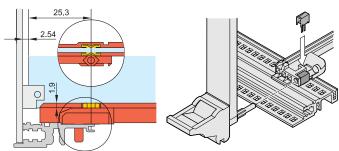
The product platform europacPRO offers a variety of off-the-shelf solutions to assure electromagnetic compatibility (EMC) and to avoid electrostatic discharge (ESD).

Two shielding concepts

It can't be more secure!

Two types of shielding concepts to front/rear of the subrack allow the use all Schroff frontpanels.

The shielding at the front of the subrack is by means of stainless steel or textile EMC gaskets.



ESD (electrostatic discharge)

To avoid electrostatic discharge when inserting PCBs, ESD contacts are clipped into the guide rails. These establish a conductive connection between PCB and subrack-earth. Under IEC 60297-3-101 two ESD areas are defined on the euroboard. The ESD clips of the guide rail of the europacPRO subrack allow the assembly of both following variants:

- ESD area (bottom and top) over the complete board length
- ESD area (bottom/top) begins at the front from 70 mm to end of board)

04503050 06103052

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