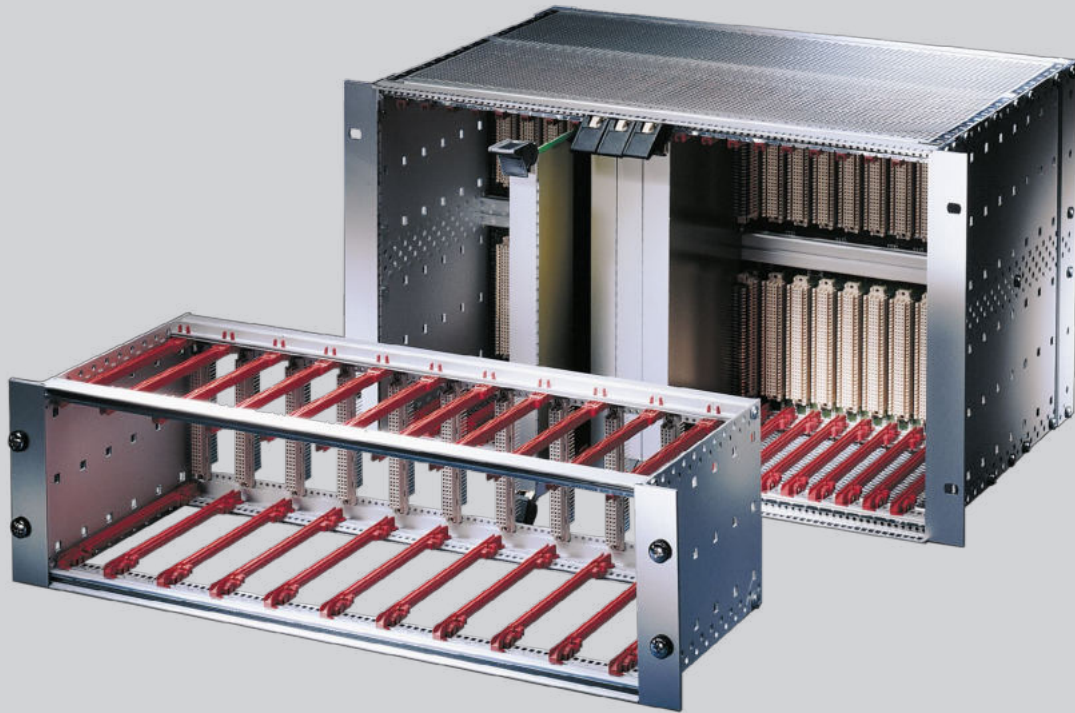




CONNECT AND PROTECT

EuropacPRO

08/2025

OVERVIEW

MAIN KATALOG

Cabinets 1

Wall mounted cases 2

Accessories for cabinets and wall mounted cases .. 3

Climate control .. 4

Electronics cases 5

Subracks/
19" chassis 6

Front panels,
plug-in units 7

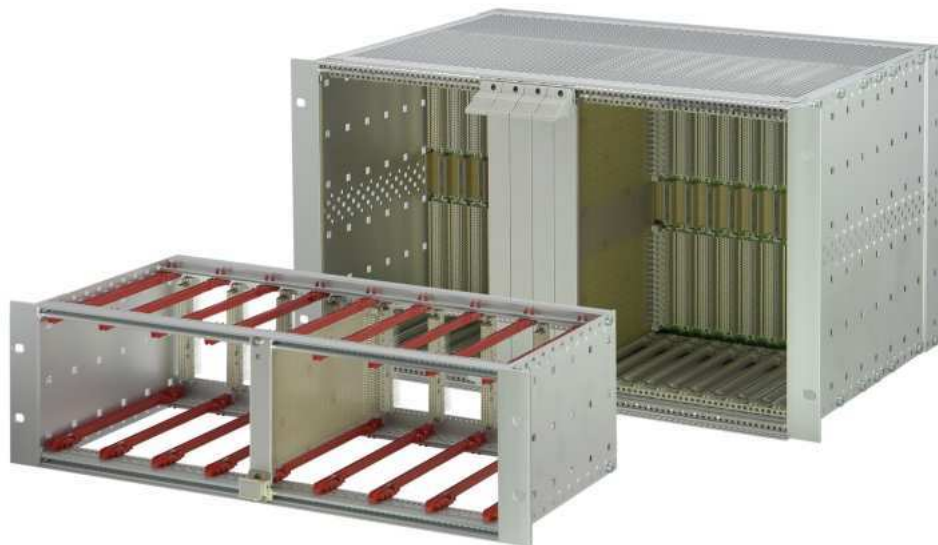
Systems 8

Power supply units 9

Backplanes 10

Connectors, front
panel component
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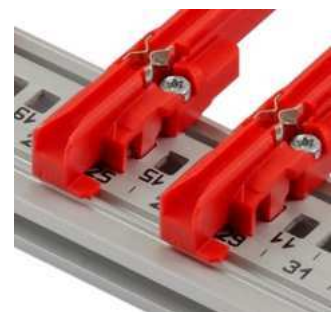
Appendix 12



06112014
Different horizontal rails for various applications



131935928
The IEEE handles and shielded front panels are designed for the construction of CompactPCI and VME64x subrack systems

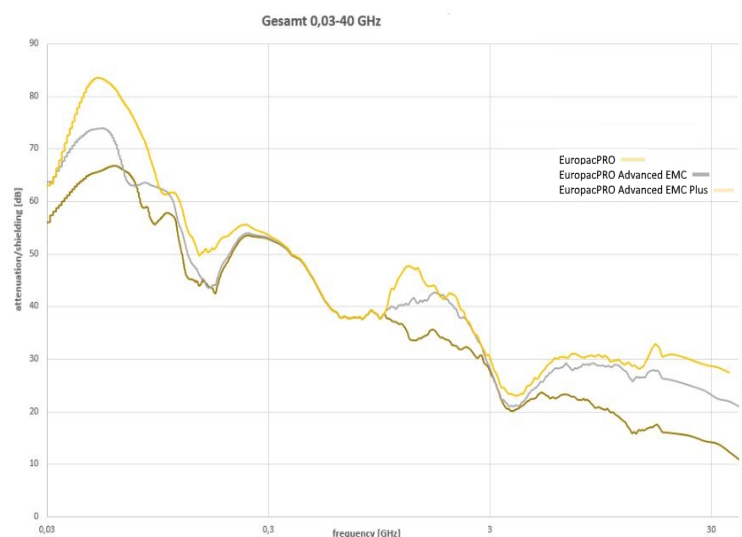


136815553
Sequential numbering on horizontal rails (> 28 HP) and markings on the guide rails provide quick optical positioning aids. ESD clips can be used at front or rear, to protect electronics from electrostatic discharge

STANDARDS/CERTIFICATIONS

- Inner and outer dimensions meet:
IEC 60297-3-100, -101, -102, -103, -104, -105
IEEE 1101.1 and IEEE 1101.10/11
- Type of protection IP 20 to IEC 60529
- EMC testing to IEC 61587-3 (3GHz) and IEC 61000-5-7 (40GHz)
- Shock and vibration test reports:
German "Bahn" standards BN 411002, BN 411003;
NF F 60002, NF F 67012
IEC 61587-2, EN 50155, part 12.2.11
- Safety Requirements IEC 62368-1
- Plastic parts: Improved fire safety properties, fulfills EN 45545-2 requirement sets R22, R23 and R24 with HL3, "Halogen-Free", according to IEC 61249-2-21
- Nuclear plants KTA 1401

EMC CURVE



Subracks – EuropacPRO

OVERVIEW

19" SUBRACKS

- Kits or individual configuration
- One product and accessories platform for every kind of customer requirement and application
- Suitable for CompactPCI and VME64x insertion and extractor handles
- EMC shielding can easily be retrofitted if needed
- Shock and vibration resistant up to 5 g
- 3D PDF or CAD 3D data available for free download

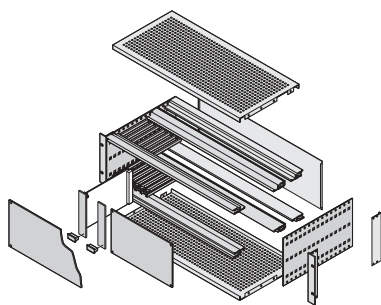


KITS

- All required parts available under one order number, some pre-fitted
- Most popular dimensions and versions available from stock
- For installed loads up to 7.5 kg, up to 11 kg and up to 15 kg
- As unshielded or shielded version
- Supplied as space-saving flat-pack



134592766 128288068



06105058

SERVICEPLUS INDIVIDUAL CONFIGURATION

- Single parts may individually be configured, respectively assembled on request (from quantity 1)
- Very wide range of variants in height, width and depth
- Guide rails for different applications
- EMC shielding material to improve EMC performance
- Interior assembly options with mounting plate or combined mounting (3U and 6 U segments)
- Other accessories and assembly kits

SERVICEPLUS

- e.g. individual configuration and assembly
- e.g. modification (cut-outs)
- e.g. downloads (CAD drawings, user manuals, test reports)
- e.g. custom solutions

Overview 6.6

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Kits

Light 6.6
Flexible 6.7
Heavy 6.12
Advanced EMC 6.14
Advanced EMC PLUS 6.16
CompactPCI. 6.18

ServicePLUS configuration

Side panels 6.21
Horizontal rails, threaded inserts, perforated strips 6.30
Guide rails 6.39
Cover plates 6.48
EMC Cover plates 6.49
EMC shielding 6.62
Interior assemblies. 6.66
Assembly kits 6.73

Application examples

. 6.79

Subracks for mobile railway applications

. 6.70

europacPRO for industrial applications

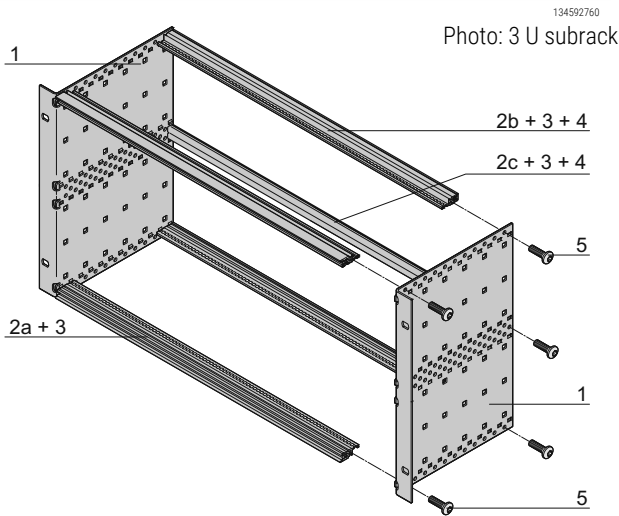
. 6.86

europacPRO for rugged applications

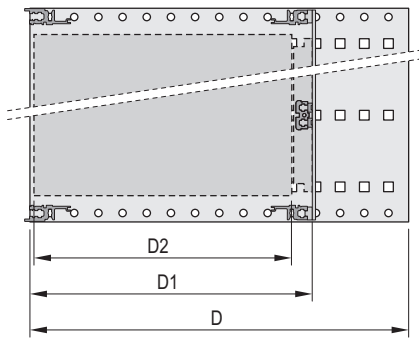
. 6.92

Subracks – EuropacPRO

KIT, "LIGHT", UNSHIELDED, FOR BACKPLANE MOUNTING



6 U



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



Rear horizontal rail for backplane mounting with insulation strip

- Subrack with side panel type L ("light") with firmly fixed 19" brackets
- Rear horizontal rails for backplane mounting with insulation strip
- Installed load up to 7.5 kg
- Cost-optimised

DELIVERY COMPRISES (Kit)

Item	Qty 3 U	6 U	Description
1	2	2	Side panel type L, Al, 2 mm, passivated, with built-in 19" support bracket
2a	2	2	Front horizontal rail (L-KD)
2b	2	2	Rear horizontal rail (L-ST)
2c	-	1	Rear horizontal rail centre (ST)
3	4	6	Threaded insert, front and rear (pre-fitted)
4	2	4	Insulation strip (pre-fitted)
5	1	1	Fixing material kit, user manual

ORDER INFORMATION

Height U	Width HP	Depth D mm	Depth D1 mm	Part no.
3	84	175	175	24564-131
3	84	235	175/235	24564-132
3	84	295	175/235/295	24564-133
6	84	175	175	24564-431
6	84	235	175/235	24564-432
6	84	295	175/235/295	24564-433

Accessories

19" assembly kit (screw, washer, nut) (8 x screws, 8 x plastic washers, 8 x cage nuts)	21100-435
Trims for side panels Type (19" angle) type L, 3 U, packaging unit 1 piece	34561-197
Trims for side panels Type (19" angle) type L, 6 U, packaging unit 1 piece	34561-497
Sleeves PPO, black, to fix top cover to side panel, PU 100 pieces	21100-565
Collar screw with slot M6 x 16, St, nickel-plated, PU 100 pieces	21100-566

Guide rails (standard), ESD clips

Depth D2 mm	Qty/PU piece	Part no.
160	10	24568-361
220	10	24568-362
280	10	24568-379
ESD clips for guide rails PU 50 pieces		24560-255

Cover plates for insertion in horizontal rails (type L)

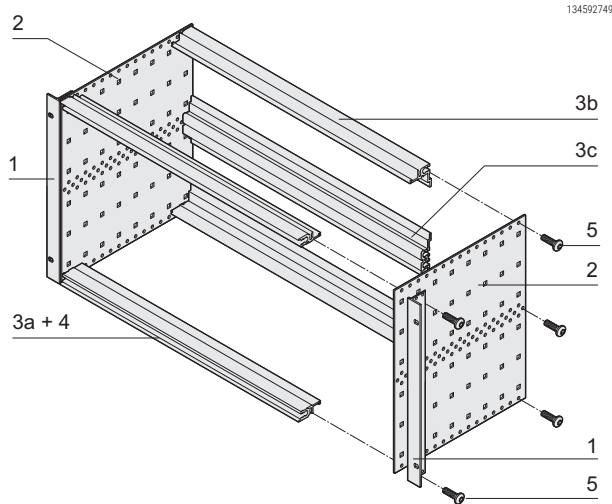
Depth D2 mm	Width HP	Qty/PU piece	Part no.
160	84	2	24561-051
220	84	2	24561-052

NOTE

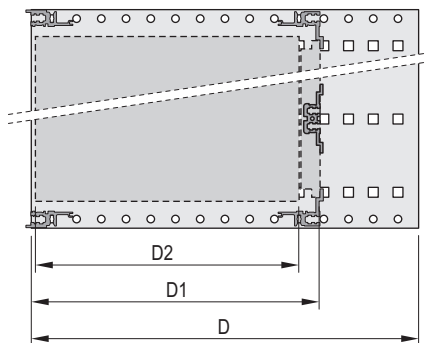
- Subrack is not prepared for shielding

Subracks – EuropacPRO

KIT, "FLEXIBLE", UNSHIELDED, FOR CONNECTOR MOUNTING



6 U



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



Horizontal rail to rear for connector mounting

- Subrack with side panel type F ("flexible"), 19" bracket is depth-adjustable
- Rear horizontal rails for connector mounting (IEC 60603-2 / DIN 41612)
- Installed load up to 11 kg

DELIVERY COMPRISES (kit)

Item	Qty		Description
	3 U	6 U	
1	2	2	19" support bracket, Al extrusion, for EMC gasket (St, stainless)
2	2	2	Side panel type F, Al, 2 mm
3a	2	2	Front horizontal rail (L-KD)
3b	2	2	Rear horizontal rail (L-MZ) for connector mounting
3c	-	1	Centre horizontal rail (MZ)
4	2	2	Threaded insert to front (pre-fitted)
5	1	1	Fixing material kit, user manual

ORDER INFORMATION

Height U	Width HP	Depth D mm	Depth D1 mm	Part no.
3	84	175	175	24563-191
3	84	235	175/235	24563-192
3	84	295	175/235/295	24563-193
3	84	355	175/235/295/355	24563-194
6	84	175	175	24563-491
6	84	235	175/235	24563-492
6	84	295	175/235/295	24563-493
6	84	355	175/235/295/340	24563-494

Accessories

19" assembly kit (screw, washer, nut) (8 x screws, 8 x plastic washers, 8 x cage nuts)	21100-435
---	------------------

Guide rails (standard), ESD clips

Depth D2 mm	Qty/PU piece	Part no.
160	10	24568-361
220	10	24568-362
280	10	24568-379
340	10	24568-380

ESD clip for guide rails PU 50 pieces

24560-255

Cover plates for insertion in horizontal rails (type L)

Depth D2 mm	Width HP	Qty/PU piece	Part no.
160	84	2	24561-051
220	84	2	24561-052

Subracks – EuropacPRO

KIT, "FLEXIBLE", UNSHIELDED FOR CONNECTOR, ASSEMBLY ON SLIDE RAIL



- Subrack can be used with slide rails
- Subrack with side panel type F ("flexible"), 19" bracket with notch for slide rail assembly
- Horizontal rails, rear, for connector mounting (IEC 60603-2 / DIN 41612)
- Installed load up to 11 kg

DELIVERY INCLUDES (Kit, flat pack)

Item	Qty 3 U	6 U	Description
1	2	2	19" support bracket, Al extrusion, for EMC sealing (St, stainless)
2	2	2	Side panel type F, Al, 2 mm
3a	2	2	Front horizontal rail (L-KD)
3b	2	2	Rear horizontal rail (L-MZ) for connector mounting
3c	-	1	Center horizontal rail (MZ)
4	2	2	Threaded insert to front (pre-fitted)
5	1	1	Fixing materials kit, user manual

ORDER INFORMATION

Height U	Width HP	Depth D mm	Depth D1 mm	Part no.
3	84	235	175/235	24553-192
3	84	295	175/235/295	24553-193
3	84	355	175/235/295/355	24553-194
6	84	235	175/235	24553-492
6	84	295	175/235/295	24553-493
6	84	355	175/235/295/355	24553-494

Accessories

19" fixing material kit (screw, washer, nut) (8 × screws, 8 × plastic washers, 8 × cage nuts)	21100-435
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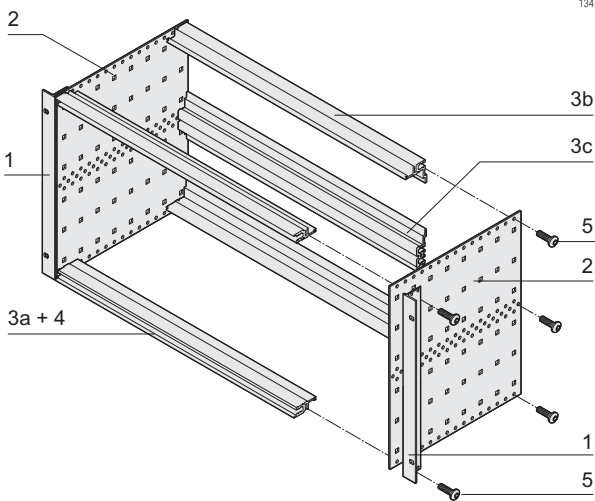
Guide rails (standard), ESD clips		
Depth D2 mm	Qty/PU piece	Part no.
160	10	24568-361
220	10	24568-362
280	10	24568-379

ESD clip for guide rails Spring steel, tin-plated, silver, PU 50 pieces	24560-255
---	------------------

Cover plates for insertion into horizontal rail type L			
Depth D2 mm	Width HP	Qty/PU piece	Part no.
160	84	2	24561-051
220	84	2	24561-052

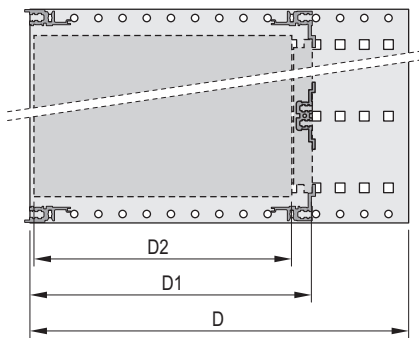
NOTE

- Alternative product for legacy Europac Lab and Europac Rational subrack series



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

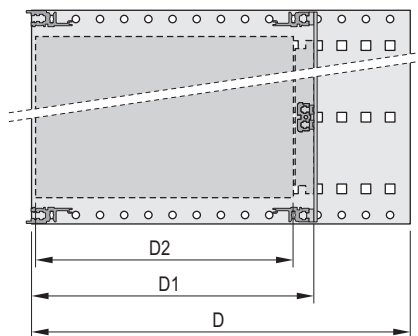
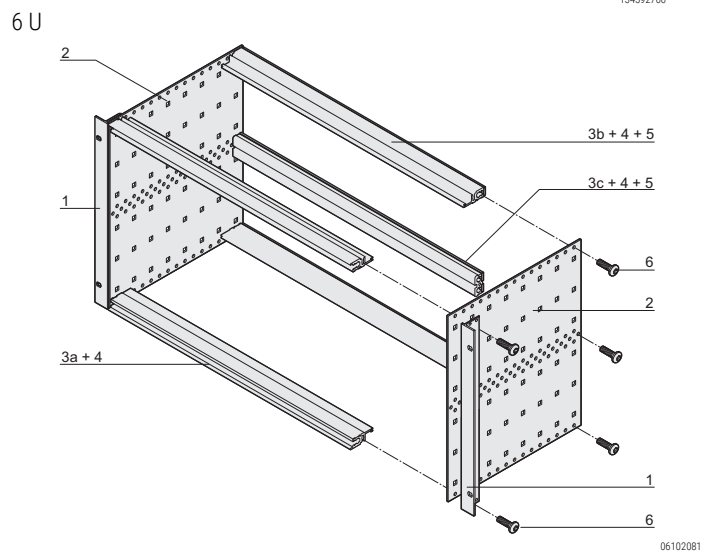


04400003

Rear horizontal rail for connector mounting

Subracks – EuropacPRO

KIT, "FLEXIBLE", UNSHIELDED, FLEXIBLE FOR BACKPLANE, ASSEMBLY ON SLIDE RAIL



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



Rear horizontal rail for backplane mounting with insulation strip

- Subrack can be used with slide rails
- Subrack with side panel type F ("flexible"), 19" bracket is depth-adjustable
- Rear horizontal rails for backplane mounting with insulation strip
- Installed load up to 11 kg

DELIVERY INCLUDES (Kit, flat pack)

Item	Qty		Description
	3 U	6 U	
1	2	2	19" support bracket, Al extrusion, for EMC sealing (St, stainless)
2	2	2	Side panel type F, Al, 2 mm
3a	2	2	Front horizontal rail (L-KD)
3b	2	2	Rear horizontal rail (L-ST) for backplane mounting
3c	-	1	Rear center horizontal rail (ST)
4	4	6	Threaded inserts, front and rear (pre-fitted)
5	2	4	Insulation strip (pre-fitted)
6	1	1	Fixing materials kit, user manual

ORDER INFORMATION

Height U	Width HP	Depth D mm	Depth D1 mm	Part no.
3	84	235	175/235	24553-132
3	84	295	175/235/295	24553-133
3	84	355	175/235/295/355	24553-134
6	84	235	175/235	24553-432
6	84	295	175/235/295	24553-433
6	84	355	175/235/295/355	24553-434

Accessories

19" fixing material kit (screw, washer, nut) (8 x screws, 8 x plastic washers, 8 x cage nuts)	21100-435
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Guide rails (standard), ESD clips

Depth D2 mm	Qty/PU piece	Part no.
160	10	24568-361
220	10	24568-362
280	10	24568-379
340	10	24568-380

ESD clip for guide rails Spring steel, tin-plated, silver, PU 50 pieces	24560-255
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Cover plates for insertion into horizontal rail type L

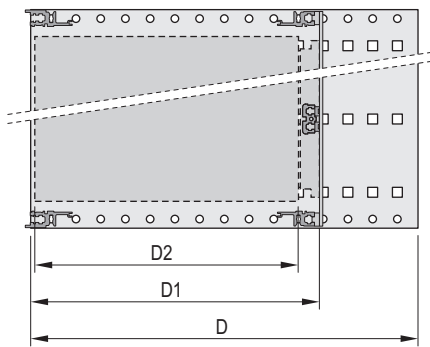
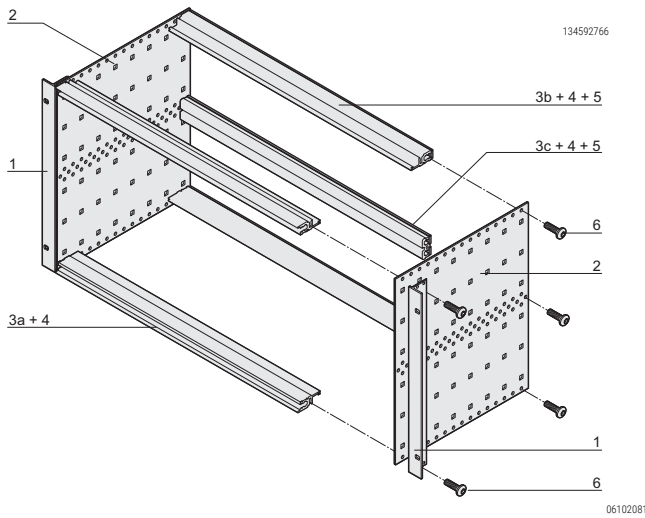
Depth D2 mm	Width HP	Qty/PU piece	Part no.
160	84	2	24561-051
220	84	2	24561-052

NOTE

- Alternative product for legacy Europac Lab and Europac Rational subrack series

Subracks – EuropacPRO

KIT, "FLEXIBLE", UNSHIELDED, FOR BACKPLANE MOUNTING



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



Rear horizontal rail for backplane mounting with insulation strip

- Subrack with side panel type F ("flexible"), 19" bracket is depth-adjustable
- Rear horizontal rail for backplane mounting with insulation strip
- Installed load up to 11 kg

DELIVERY COMPRISES (kit)

Item	Qty		Description
	3 U	6 U	
1	2	2	19" support bracket, Al extrusion, for EMC stainless steel gasket
2	2	2	Side panel type F, Al, 2 mm
3a	2	2	Front horizontal rail (L-KD)
3b	2	2	Rear horizontal rail (L-ST) for backplane mounting
3c	-	1	Rear horizontal rail centre (ST)
4	4	6	Threaded insert, front and rear (pre-fitted)
5	2	4	Insulation strip (pre-fitted)
6	1	1	Fixing material kit, user manual

ORDER INFORMATION

Height U	Width HP	Depth D mm	Depth D1 mm	Part no.
3	84	175	175	24563-131
3	84	235	175/235	24563-132
3	84	295	175/235/295	24563-133
3	84	355	175/235/295/355	24563-134
3	84	415	175/235/295/355	24563-135
3	84	475	175/235/295/355	24563-136
6	84	175	175	24563-431
6	84	235	175/235	24563-432
6	84	295	175/235/295	24563-433
6	84	355	175/235/295/355	24563-434
6	84	415	175/235/295/355	24563-435
6	84	475	175/235/295/355	24563-436

Accessories

19" assembly kit (screw, washer, nut) (8 x screws, 8 x plastic washers, 8 x cage nuts)	21100-435
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Guide rails (standard), ESD clips

Depth D2 mm	Qty/PU piece	Part no.
160	10	24568-361
220	10	24568-362
280	10	24568-379
340	10	24568-380
ESD clip for guide rails PU 50 pieces		24560-255

Cover plates for insertion in horizontal rails (type L)

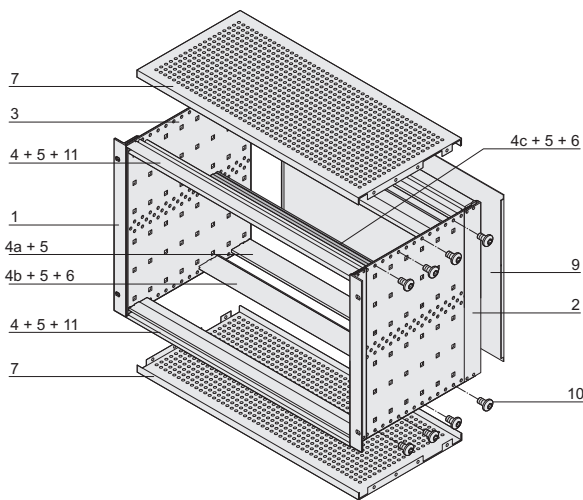
Depth D2 mm	Width HP	Qty/PU piece	Part no.
160	84	2	24561-051
220	84	2	24561-052

Subracks – EuropacPRO

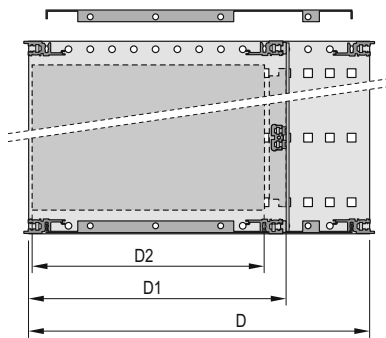
KIT, "FLEXIBLE", SHIELDED, FOR BACKPLANE MOUNTING



128288219



6 U



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



04400001

Rear horizontal rail for backplane mounting with insulation strip

- Subrack with side panel type F ("flexible"), 19" bracket is depth-adjustable
- Rear horizontal rail for backplane mounting with insulation strip
- Shielding typically 40 dB at 1 GHz, 30 dB at 2 GHz, assuming that the front is closed with shielded front panels
- Installed load up to 11 kg

DELIVERY COMPRISES ((kit))

Item	Qty		Description
	3 U	6 U	
1	2	2	19" support bracket for EMC textile gasket
2	2	2	Rear corner profile for EMC textile gasket
3	2	2	Side panel type F
4	2	2	Front horizontal rail (L-KD)
4 a	2	2	Rear horizontal rail (L-KD)
4 b	2	2	Rear horizontal rail (L-ST) for backplane mounting with insulation strip
4 c	-	1	Centre horizontal rail (ST)
5	6	8	Threaded insert (pre-fitted)
6	2	4	Insulation strip, fixed
7	2	2	EMC cover plate
8	1	1	EMC gasketing material (pre-fitted)
9	1	1	Rear panel
10	1	1	Fixing material kit
11	2	2	Perforated strip (pre-fitted)
12	1	1	User manual

06102075

ORDER INFORMATION

Height U	Width HP	Depth D mm	Depth D1 mm	Part no.
3	84	235	175	24563-142
3	84	295	175/235	24563-143
3	84	355	175/235/295	24563-144
3	84	415	175/235/295	24563-145
3	84	475	175/235/295	24563-146
6	84	235	175	24563-442
6	84	295	175/235	24563-443
6	84	355	175/235/295	24563-444
6	84	415	175/235/295	24563-445
6	84	475	175/235/295	24563-446

06113056

Accessories

19" assembly kit (screw, washer, nut) (8 x screws, 8 x plastic washers, 8 x cage nuts)	21100-435
1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x	21102-105
1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x	21102-107

Guide rails (standard), ESD clips

Depth D2 mm	Qty/PU piece	Part no.
160	10	24568-361
220	10	24568-362
280	10	24568-379
ESD clip for guide rails PU 50 pieces		24560-255

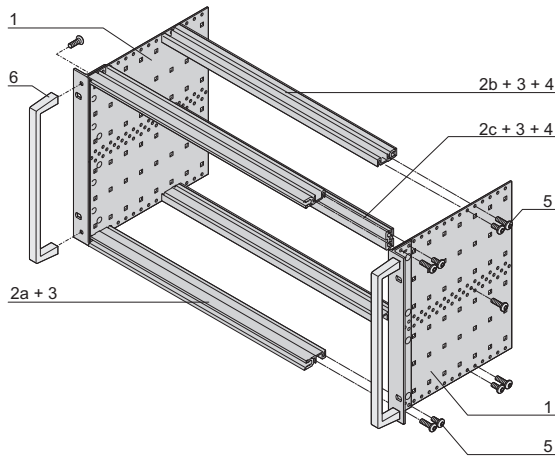
Subracks – EuropacPRO

KIT, 'HEAVY', UNSHIELDED, FOR BACKPLANE MOUNTING

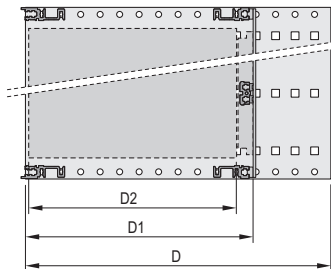


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Without front handle



6 U



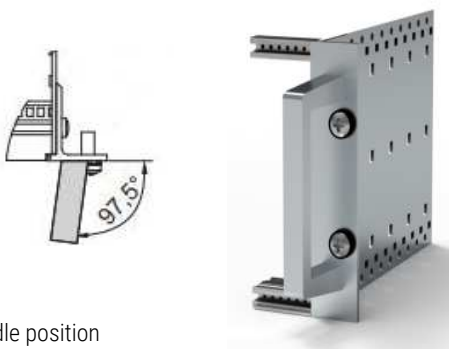
06111057

D = overall depth, D1 = insertion depth, D2 = board depth



04400001

Rear horizontal rail for backplane mounting with insulation strip



Front handle position

- Subrack with side panel type H ("heavy"), 19" bracket is firmly fixed to side panel (tox-cold welded)
- Rear horizontal rail for backplane mounting with insulation strip
- Shock and vibration resistance up to 5 g
- Installed load up to 15 kg
- Versions with/without front handles

DELIVERY COMPRISES (Kit)

Item	Qty	Description
	3 U	6 U
1	2	2
2a	2	2
2b	2	2
2c	-	1
3	4	6
4	2	4
5	1	1
6	2	2

ORDER INFORMATION

Height U	Width HP	Depth D mm	Depth D1 mm	Part no. with front handle	Part no. without front handle
3	84	175	175	24567-161	24563-161
3	84	235	175/235	24567-162	24563-162
3	84	295	175/235/295	24567-163	24563-163
3	84	355	175/235/295/355	24567-164	24563-164
6	84	175	175	24567-461	24563-461
6	84	235	175/235	24567-462	24563-462
6	84	295	175/235/295	24567-463	24563-463
6	84	355	175/235/295/355	24567-464	24563-464

Accessories

19" assembly kit (screw, washer, nut) (8 x screws, 8 x plastic washers, 8 x cage nuts)	21100-435
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Guide rails (standard), ESD clips

Depth D2 mm	Qty/PU piece	Part no.
160	10	24568-361
220	10	24568-362
280	10	24568-379
340	10	24568-380

ESD clip for guide rails PU 50 pieces

Torx panhead screw, for extra bolting of the guide rails, 2.5 x 9.3, zinc-plated, PU 100 pieces; torque max. 0.2 Nm

24560-255

Depth D2 mm	Width HP	Qty/PU piece	Part no.
160	84	2	24560-078
220	84	2	24560-079
280	84	2	24560-080
340	84	2	24560-081

Remark:

- ServicePLUS from page 6.20
- The slightly angled front handles facilitate access to the fixing screws. (Screwing into a 19" Cabinet)
The handle are screwed from the rear side of the 19" bracket

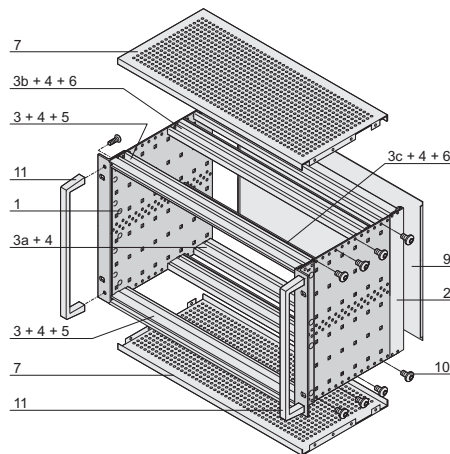
Subracks – EuropacPRO

KIT, "HEAVY", SHIELDED, FOR BACKPLANE MOUNTING

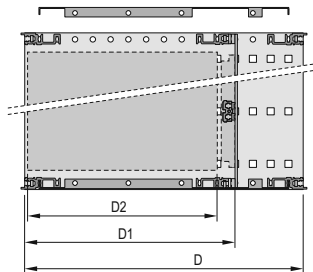


Without front handle

With front handle



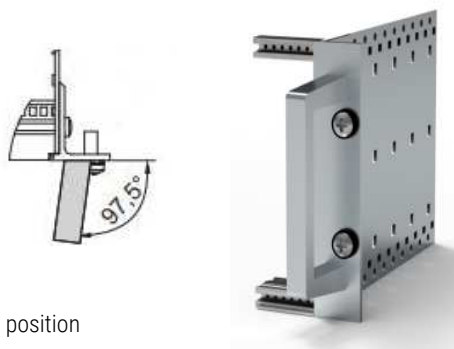
6 U



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



Rear horizontal rail for backplane mounting with insulation strip



Front handle position

- Subrack with side panel type H ("heavy"), 19" bracket is firmly fixed to side panel (tox-cold welded)
- Rear horizontal rail for backplane mounting with insulation strip
- Shielding typically 40 dB at 1 GHz, 30 dB at 2 GHz, assuming that the front is closed with sealed front panels
- Shock and vibration resistance up to 5 g
- Installed load up to 15 kg
- Versions with/without front handles

DELIVERY COMPRISES (Kit)

Item	Qty 3 U	Qty 6 U	Description
1	2	2	Side panel type H, Al, 2 mm, passivated, with 19" support bracket (tox-cold welded) for textile EMC gasket
2	2	2	Rear corner profile for textile EMC gasket
3	2	2	Front horizontal rail (H-KD)
3 a	2	2	Rear horizontal rail (H-KD)
3 b	2	2	Rear horizontal rail (H-ST)
3 c	-	1	Rear horizontal rail centre (ST)
4	6	8	Threaded insert (pre-fitted)
5	2	2	Perforated strip (pre-fitted)
6	2	4	Insulation strip (pre-fitted)
7	2	2	EMC cover plate
8	1	1	EMC gasketing material (pre-fitted)
9	1	1	EMC rear panel
10	1	1	Fixing material kit, user manual
11	2	2	Front handle, angled version (on version with front handle only)

ORDER INFORMATION

Height U	Width HP	Depth D mm	Depth D1 mm	Part no. with front handle	Part no. without front handle
3	84	235	175	24567-172	24563-172
3	84	295	175/235	24567-173	24563-173
3	84	355	175/235/295	24567-174	24563-174
6	84	235	175	24567-472	24563-472
6	84	295	175/235	24567-473	24563-473
6	84	355	175/235/295	24567-474	24563-474

Accessories

19" assembly kit (screw, washer, nut)	
8 x screws, 8 x plastic washers, 8 x cage nuts)	21100-435
1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x	21102-105
1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x	21102-107

Guide rails (standard), ESD clips

Depth D2 mm	Qty/PU piece	Part no.
160	10	24568-361
220	10	24568-362
280	10	24568-379
ESD clip for guide rails PU 50 pieces		24560-255
Torx panhead screw, for extra bolting of the guide rails, 2.5 x 9.3, zinc-plated, PU 100 pieces; torque max. 0.2 Nm		24560-141

Remark:

- ServicePLUS from page 6.20
- The slightly angled front handles facilitate access to the fixing screws. (Screwing into a 19" Cabinet)
The handle are screwed from the rear side of the 19" bracket

Subracks – EuropacPRO

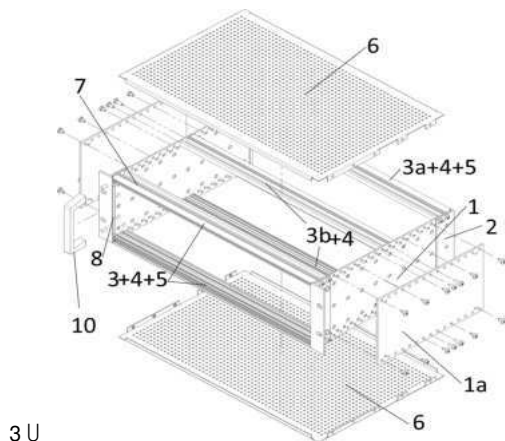
ADVANCED EMC, KIT "HEAVY", FOR BACKPLANE MOUNTING

NEW

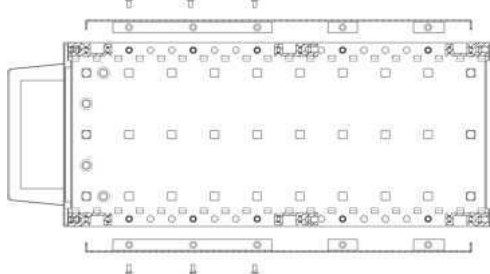


Without front handle

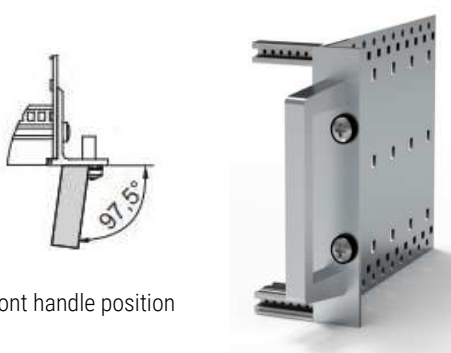
With front handle



3 U



Rear horizontal rail for backplane mounting directly



Front handle position

- Advanced EMC subrack with significantly improved RF-shielding (on average 45%), tested i.a.w. with EN 61000-5-7¹ Pending
- Top and bottom covers with EMC and airflow optimized perforation, fulfills fire safety requirements i.a.w. EN 62368-1.
- Additional side panel covers, for an increased lateral RF-shielding.
- Horizontal rails and side panels of type H ("Heavy")
- Rear horizontal rail for backplane mounting without insulation strip.
- Shock and vibration resistance up to 5 g i.a.w. EN 61373
- Installation load up to 15 kg
- IP20, in accordance with IEC 60529

DELIVERY COMPRISES (Kit)

Item	Qty	Description
3 U		
1	2	Side panel type H, Al, 2 mm, passivated, with 19" support bracket (tox-cold welded) for textile EMC or stainless steel gaskets
1a	2	Advanced EMC side panel cover, Al, 3mm, passivated
2	2	Rear corner profile for textile EMC gasket
3	2	Front horizontal rail (H-KD)
3 a	2	Rear horizontal rail (H-KD)
3 b	2	Rear horizontal rail (H-VT)
3 c		Rear horizontal rail centre (VT)
4	6	Threaded insert (pre-fitted)
5	2	Perforated strip (pre-fitted)
6	2	Advanced EMC cover plate, perforation diameter Ø 2.3mm,
7	1	EMC gasketing material (pre-fitted)
8	1	Stainless and textile gasket for front / rear shielding
9	1	Fixing material kit, user manual
10	2	Front handle, angled version (on version with front handle only)

ORDER INFORMATION

U	HP	Depth D	Depth D1	Part no.	Part no.
Height	Width	mm	mm	with front handle	without front handle
3	84	235	175	24563-900	24563-950
3	84	295	175 / 235	24563-901	24563-951
3	84	355	175 / 235 / 295	24563-903	24563-953

Accessories

19" assembly kit (screw, washer, nut)	21100-435
8 x screws, 8 x plastic washers, 8 x cage nuts)	
1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x	21102-105
1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x	21102-107

Guide rails (standard), ESD clips	Qty/PU	Part no.
Depth D2 mm	piece	
160	10	24568-361
220	10	24568-362
280	10	24568-379
ESD clip for guide rails PU 50 pieces		24560-255
Torx panhead screw, for extra bolting of the guide rails, 2.5 x 9.3, zinc-plated, PU 100 pieces; torque max. 0.2 Nm		24560-141

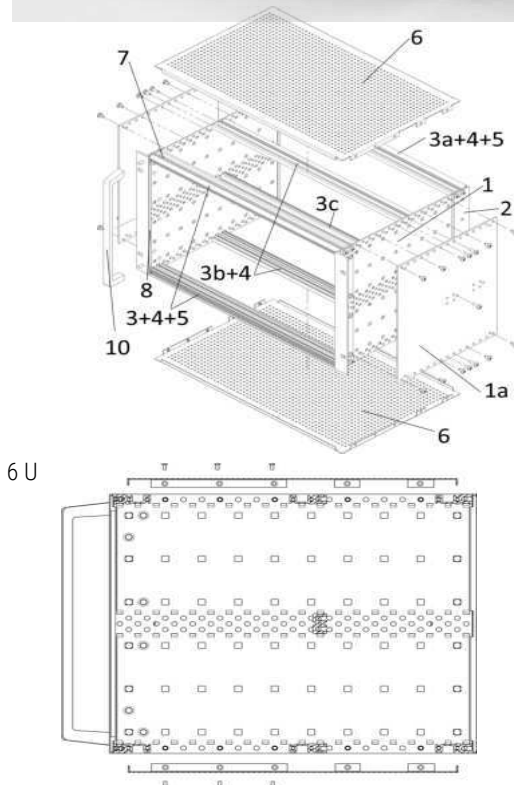
Remark:

- Please order the rear panel and front panels separately
- The slightly angled front handles facilitate access to the fixing screws. (Screwing into a 19" Cabinet)
The handle are screwed from the rear side of the 19" bracket

Subracks – EuropacPRO

ADVANCED EMC, KIT "HEAVY", FOR BACKPLANE MOUNTING

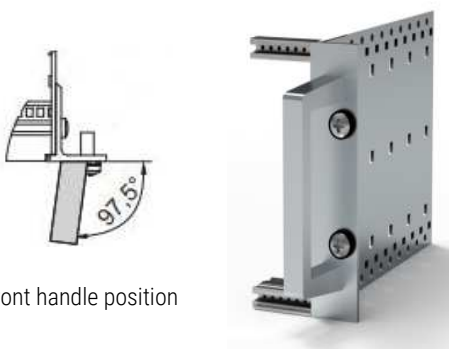
NEW



6 U



Rear horizontal rail for backplane mounting directly



Front handle position

- Advanced EMC subrack with significantly improved RF-shielding (on average 45%), tested i.a.w. with EN 61000-5-7* Pending
- Top and bottom covers with EMC and airflow optimized perforation, fulfills fire safety requirements i.a.w. EN 62368-1.
- Additional side panel covers, for an increased lateral RF-shielding.
- Horizontal rails and side panels of type H ("Heavy")
- Rear horizontal rail for backplane mounting without insulation strip.
- Shock and vibration resistance up to 5 g i.a.w. EN 61373
- Installation load up to 15 kg
- IP20, in accordance with IEC 60529

DELIVERY COMPRISES (Kit)

Item	Qty	Description
	6 U	
1	2	Side panel type H, Al, 2 mm, passivated, with 19" support bracket (tox-cold welded) for textile EMC or stainless steel gaskets
1a	2	Advanced EMC side panel cover, Al, 3mm, passivated
2	2	Rear corner profile for textile EMC gasket
3	2	Front horizontal rail (H-KD)
3a	2	Rear horizontal rail (H-KD)
3b	2	Rear horizontal rail (H-VT)
3c	1	Rear horizontal rail centre (VT)
4	6	Threaded insert (pre-fitted)
5	2	Perforated strip (pre-fitted)
6	2	Advanced EMC cover plate, perforation diameter Ø2.3mm,
7	1	EMC gasketing material (pre-fitted)
8	1	Stainless and textile gasket for front / rear shielding
9	1	Fixing material kit, user manual
10	2	Front handle, angled version (on version with front handle only)

ORDER INFORMATION

U	Height	HP Width	Depth D mm	Depth D1 mm	Part no. with front handle	Part no. without front handle
6	84	235	175		24563-910	24563-960
6	84	295	175 / 235		24563-911	24563-961
6	84	355	175 / 235 / 295		24563-913	24563-963

Accessories

19" assembly kit (screw, washer, nut)	21100-435
8 x screws, 8 x plastic washers, 8 x cage nuts	
1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x	21102-105
1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x	21102-107

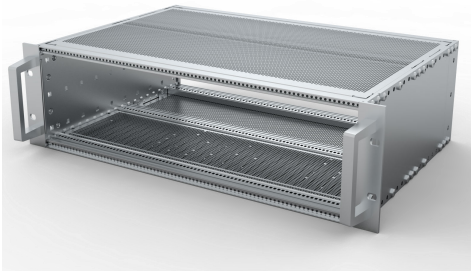
Guide rails (standard), ESD clips	Qty/PU piece	Part no.
Depth D2 mm		
160	10	24568-361
220	10	24568-362
280	10	24568-379
ESD clip for guide rails PU 50 pieces		24560-255
Torx panhead screw, for extra bolting of the guide rails, 2.5 x 9.3, zinc-plated, PU 100 pieces; torque max. 0.2 Nm		24560-141

Remark:

- Please order the rear panel and front panels separately
- The slightly angled front handles facilitate access to the fixing screws. (Screwing into a 19" Cabinet)
The handle are screwed from the rear side of the 19" bracket

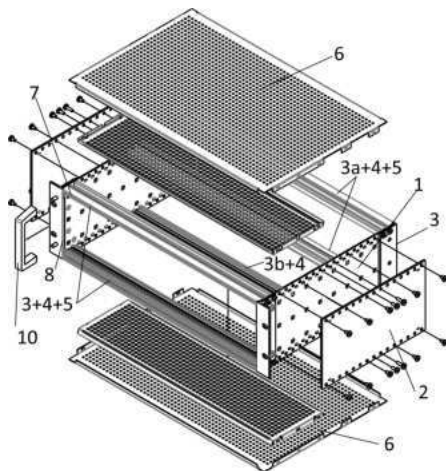
Subracks – EuropacPRO

ADVANCED EMC PLUS, KIT "HEAVY", FOR DIRECT BACKPLANE MOUNTING

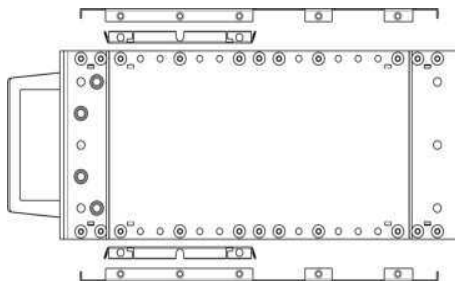


NEW

Image shows version with front handle



3 U



Rear horizontal rail for backplane mounting directly



Front handle position

- Advanced EMC subrack with significantly improved RF-shielding (on average 60%), tested i.a.w. with EN 61000-5-7
- Dual Mesh top and bottom covers with EMC and airflow optimized perforations, fulfills fire safety requirements i.a.w. EN 62368-1.
- Additional side panel covers, for an increased lateral RF-shielding.
- Horizontal rails and side panels of type H ("Heavy")
- Rear horizontal rail for backplane mounting without insulation strip.
- Shock and vibration resistance up to 5 g i.a.w. EN 61373
- Installation load up to 15 kg
- IP20, in accordance with IEC 60529

DELIVERY COMPRISES (Kit)

Item	Qty	Description
	3 U	
1	2	Side panel type H, Al, 2 mm, passivated, with 19" support bracket (tox-cold welded) for textile EMC or stainless steel gaskets
1a	2	Advanced EMC side panel cover, Al, 3mm, passivated
2	2	Rear corner profile for textile EMC gasket
3	2	Front horizontal rail (H-KD)
3 a	2	Rear horizontal rail (H-KD)
3 b	2	Rear horizontal rail (H-VT)
3 c	-	Rear horizontal rail centre (VT)
4	6	Threaded insert (pre-fitted)
5	2	Perforated strip (pre-fitted)
6	2	Advanced EMC Plus cover plates, perforation diameter Ø 2.3mm, with additional mesh cover
7	1	EMC gasketing material (pre-fitted)
8	1	Stainless and textile gasket for front / rear shielding
9	1	Fixing material kit, user manual
10	2	Front handle, angled version (on version with front handle only)

ORDER INFORMATION

U Height	HP Width	Depth D mm	Depth D1 mm	Part no. with front handle	Part no. without front handle
3	84	235	175	24563-920	24563-970
3	84	295	175	24563-921	24563-971
3	84	355	175	24563-923	24563-973
3	84	295	235	24563-922	24563-972
3	84	355	235	24563-924	24563-974
3	84	355	295	24563-925	24563-975

Accessories

19" assembly kit (screw, washer, nut)	21100-435
8 x screws, 8 x plastic washers, 8 x cage nuts	
1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x	21102-105
1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x	21102-107

Guide rails (standard), ESD clips	Qty/PU piece	Part no.
Depth D2 mm		
160	10	24568-361
220	10	24568-362
280	10	24568-379
ESD clip for guide rails PU 50 pieces		24560-255
Torx panhead screw, for extra bolting of the guide rails, 2.5 x 9.3, zinc-plated, PU 100 pieces; torque max. 0.2 Nm		24560-141

Remark:

- Please order the rear panel and front panels separately
- The slightly angled front handles facilitate access to the fixing screws. (Screwing into a 19" Cabinet)
The handle are screwed from the rear side of the 19" bracket

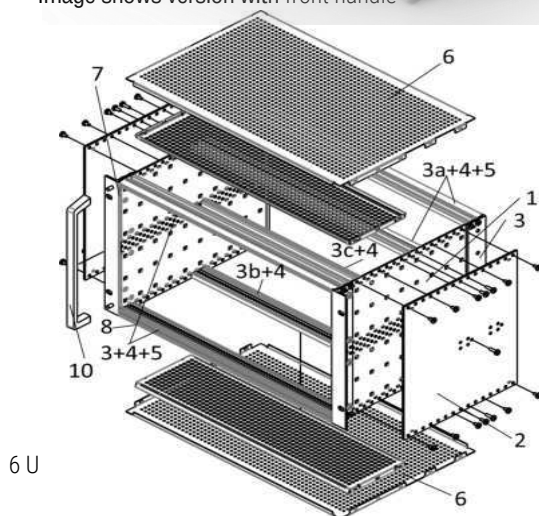
Subracks – EuropacPRO

ADVANCED EMC PLUS KIT "HEAVY", FOR DIRECT BACKPLANE MOUNTING

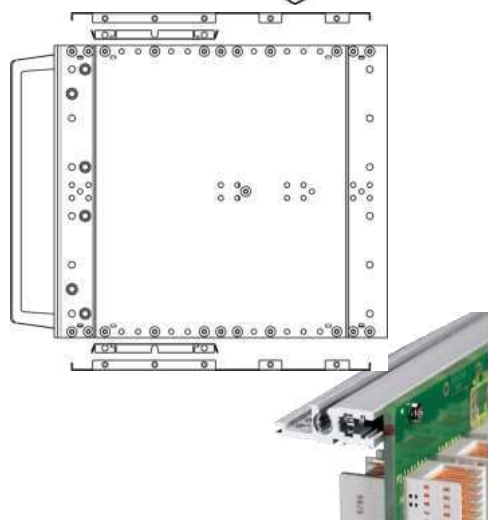
NEW



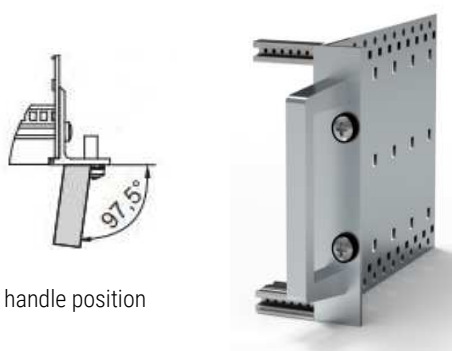
Image shows version with front handle



6 U



Rear horizontal rail for backplane mounting directly



Front handle position

- Advanced EMC subrack with significantly improved RF-shielding (on average 60%), tested i.a.w. with EN 61000-5-7
- Dual Mesh top and bottom covers with EMC and airflow optimized perforation, fulfills fire safety requirements i.a.w. EN 62368-1.
- Additional side panel covers, for an increased lateral RF-shielding.
- Horizontal rails and side panels of type H ("Heavy")
- Rear horizontal rail for backplane mounting without insulation strip.
- Shock and vibration resistance up to 5 g i.a.w. EN 61373
- Installation load up to 15 kg
- IP20, in accordance with IEC 60529

DELIVERY COMPRISES (Kit)

Item	Qty	Description
	3 U	
1	2	Side panel type H, Al, 2 mm, passivated, with 19" support bracket (tox-cold welded) for textile EMC or stainless steel gaskets
1a	2	Advanced EMC side panel cover, Al, 3mm, passivated
2	2	Rear corner profile for textile EMC gasket
3	2	Front horizontal rail (H-KD)
3 a	2	Rear horizontal rail (H-KD)
3 b	2	Rear horizontal rail (H-VT)
3 c	-	Rear horizontal rail centre (VT)
4	6	Threaded insert (pre-fitted)
5	2	Perforated strip (pre-fitted)
6	2	Advanced EMC Plus cover plates, perforation diameter Ø 2.3mm, with additional mesh cover
7	1	EMC gasketing material (pre-fitted)
8	1	Stainless and textile gasket for front / rear shielding
9	1	Fixing material kit, user manual
10	2	Front handle, angled version (on version with front handle only)

ORDER INFORMATION

U Height	HP Width	Depth D mm	Depth D1 mm	Part no. with front handle	Part no. without front handle
6	84	235	175	24563-930	24563-980
6	84	295	175	24563-931	24563-981
6	84	355	175	24563-933	24563-983
6	84	295	235	24563-932	24563-982
6	84	355	235	24563-934	24563-984
6	84	355	295	24563-935	24563-985

Accessories

19" assembly kit (screw, washer, nut)	21100-435
8 x screws, 8 x plastic washers, 8 x cage nuts	
1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x	21102-105
1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x	21102-107

Guide rails (standard), ESD clips	Qty/PU piece	Part no.
Depth D2 mm		
160	10	24568-361
220	10	24568-362
280	10	24568-379
ESD clip for guide rails PU 50 pieces		24560-255
Torx panhead screw, for extra bolting of the guide rails, 2.5 x 9.3, zinc-plated, PU 100 pieces; torque max. 0.2 Nm		24560-141

Remark:

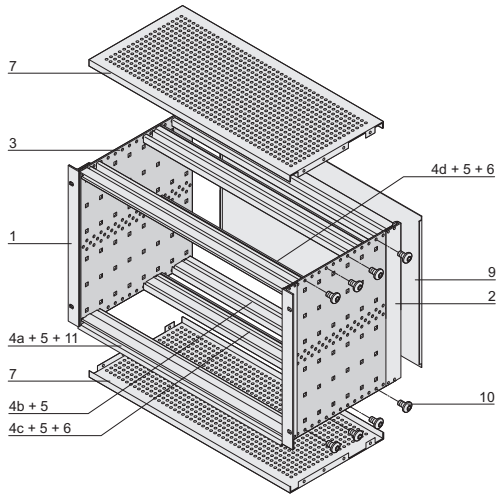
- Please order the rear panel and front panels separately
- The slightly angled front handles facilitate access to the fixing screws. (Screwing into a 19" Cabinet)
The handle are screwed from the rear side of the 19" bracket

Subracks – EuropacPRO

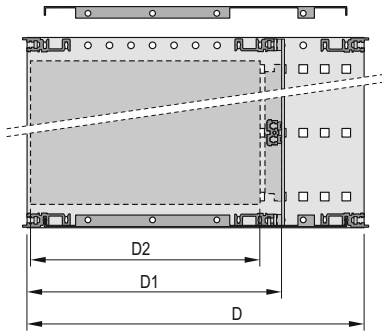
KIT, "FLEXIBLE", FOR COMPACTPCI, FOR BACKPLANE MOUNTING, WITHOUT REAR I/O, SHIELDED



6 U



134908829



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



04400001

Rear horizontal rail for backplane mounting with insulation strip

- Subrack with side panel type F ("flexible") for CompactPCI plug-in units with high insertion and withdrawal forces
- Rear horizontal rail for backplane mounting with insulation strip
- Shielding typically 40 dB at 1 GHz, 30 dB at 2 GHz, assuming that the front is covered with shielded front panels
- Installed load up to 11 kg

DELIVERY COMPRISES (kit)

Item	Qty		Description
	3 U	6 U	
1	2	2	19" support bracket for EMC textile gasket
2	2	2	Rear corner profile for EMC textile gasket
3	2	2	Side panel type F
4	1	-	Front horizontal rail (H-KD)
4 a	1	2	Front horizontal rail IEEE (H-LD)
4 b	2	2	Rear horizontal rail (L-KD)
4 c	2	2	Rear horizontal rail (H-ST), for backplane mounting with insulation strip
4 d	-	1	Centre horizontal rail (ST)
5	6	8	Threaded insert (pre-fitted)
6	2	4	Insulation strip (pre-fitted)
7	2	2	EMC cover plate
8	1	1	EMC gasketing material (pre-fitted)
9	1	1	Rear panel
10	1	1	Fixing material kit
11	2	2	Perforated strip (pre-fitted in item 4+4a)
12	1	1	User manual

06102078

ORDER INFORMATION

Height	Width	Depth D	Depth D1	Part no.
U	HP	mm	mm	
3	84	235	175	24563-152
6	84	235	175	24563-452

Accessories

Guide rail with coding, red 160 mm deep, PC, UL 94 V-0, groove width 2 mm, PU 10 pieces	24568-356
Guide rail with coding, grey 160 mm deep, PC, UL 94 V-0, groove width 2 mm, PU 10 pieces	24568-358
Guide rail with coding, green, offset 160 mm deep, PC, UL 94 V-0, groove width 2 mm, PU 10 pieces	24568-359
ESD clip for guide rails PU 50 pieces	24560-255
ESD clip for alignment pin of CPCI/VME64x handle PU 50 pieces	24560-256
Torx panhead screw 2.5 x 9.3, zinc-plated, PU 100 pieces; torque max. 0.2 Nm	24560-141
Coding peg PC, UL 94 V-0, RAL 7035, PU 100 pieces	20817-501
19" assembly kit (screw, washer, nut) (8 x screws, 8 x plastic washers, 8 x cage nuts)	21100-435
1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x	21102-105
1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x	21102-107

06113055

Subracks – EuropacPRO

SUBRACK KIT, "FLEXIBLE", FOR COMPACTPCI, FOR BACKPLANE MOUNTING, FOR REAR I/O, SHIELDED

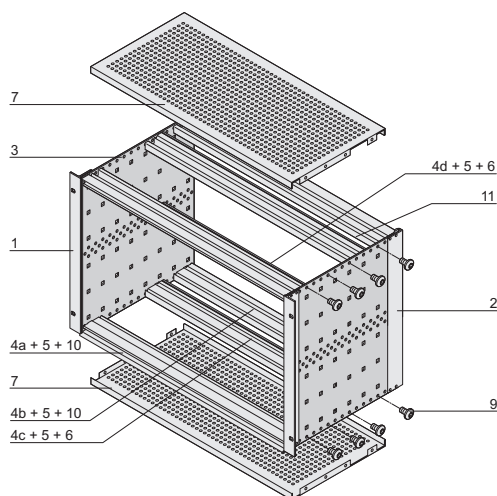


- Subrack with side panel type F ("flexible") for CompactPCI plug-in units with high insertion and withdrawal forces
- For rear I/O boards (depth 80 mm)
- Rear horizontal rail for backplane mounting with insulation strip
- Shielding typically 40 dB at 1 GHz, 30 dB at 2 GHz, assuming that the front is covered with shielded front panels
- Installed load up to 11 kg

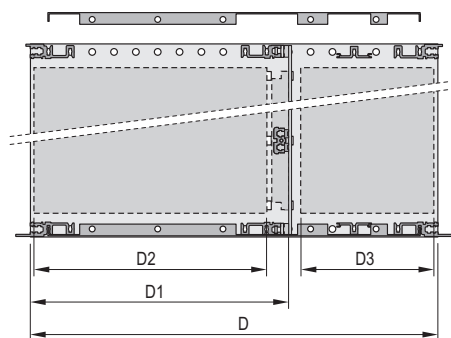
DELIVERY COMPRISES (kit)

Item	Qty	3 U	6 U	Description
1	2	2		19" support bracket for EMC textile gasket
2	2	2		Rear corner profile for EMC textile gasket
3	2	2		Side panel type F
4	1	-		Front horizontal rail (H-KD)
4 a	1	2		Front horizontal rail IEEE (H-LD)
4 b	2	2		Rear horizontal rail (H-KD)
4 c	2	2		Rear horizontal rail (H-ST), with insulation strip for backplane mounting
4 d	-	1		Centre horizontal rail (ST)
5	6	8		Threaded insert (pre-fitted)
6	2	4		Insulation strip, fixed
7	2	2		EMC cover plate
8	1	1		EMC gasketing material (pre-fitted)
9	1	1		Fixing material kit
10	2	2		Perforated strip (pre-fitted)
11	2	2		Horizontal rail type AB
12	1	1		User manual

6 U



134908840



06105076

D = overall depth, D1 = insertion depth,
D2 = board depth = D1 - 15 mm, D3 = rear I/O board depth



06108075

04400001

Rear horizontal rail for backplane mounting with insulation strip

ORDER INFORMATION

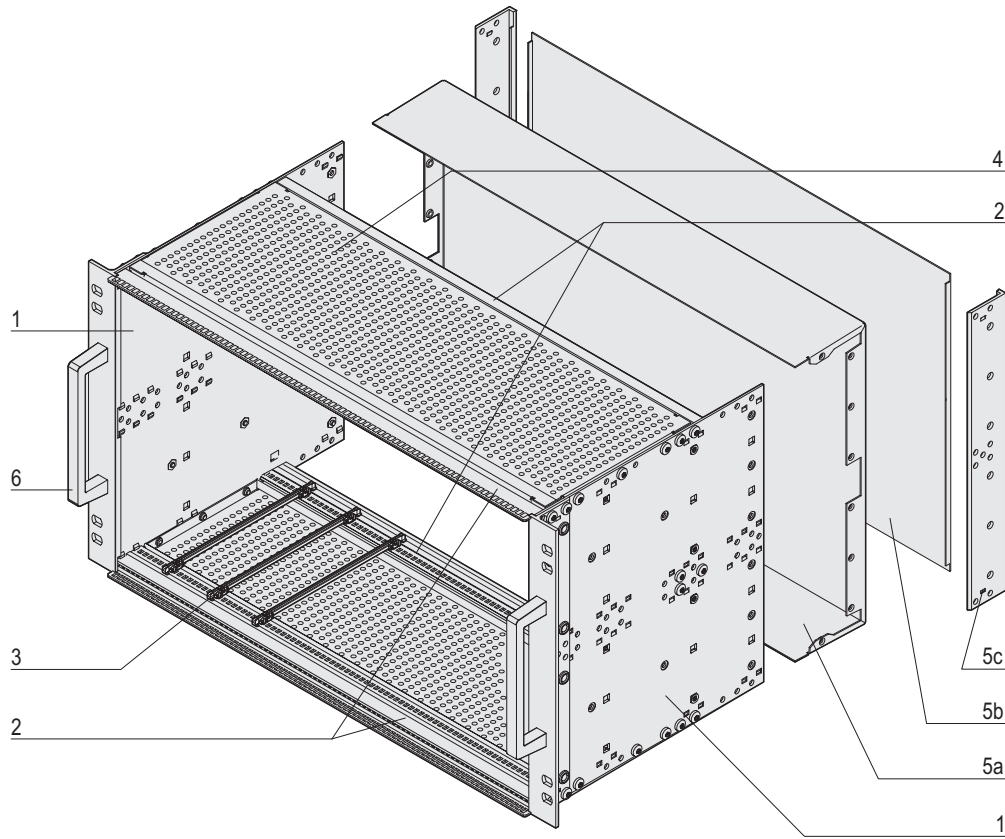
Height	Width	Depth D	Depth D1	Depth D3	Part no.
U	HP	mm	mm	mm	
3	84	275	175	80	24563-157
6	84	275	175	80	24563-457

Accessories

Guide rail with coding, red 160 mm deep, PC, UL 94 V-0, groove width 2 mm, PU 10 pieces	24568-356
Guide rail with coding, grey 160 mm deep, PC, UL 94 V-0, groove width 2 mm, PU 10 pieces	24568-358
Guide rail with coding, green, offset 160 mm deep, PC, UL 94 V-0, groove width 2 mm, PU 10 pieces	24568-359
ESD clip for guide rails PU 50 pieces	24560-255
ESD clip for alignment pin of CPC/VM64x handle PU 50 pieces	24560-256
Guide rail with coding, red 70 mm deep, PU 10 pieces	24568-357
Guide rail with coding, grey 70 mm deep, PU 10 pieces	24568-360
Torx panhead screw 2.5 x 9.3, zinc-plated, PU 100 pieces; torque max. 0.2 Nm	24560-141
Coding peg PC, UL 94 V-0, RAL 7035, PU 100 pieces	20817-501
19" fixing material kit (screw, washer, nut) (8 x screws, 8 x plastic washers, 8 x cage nuts)	21100-435
1 kit, EMC gasket stainless steel, for U-shaped front panel, 3U, 10x	21102-105
1 kit, EMC gasket stainless steel, for U-shaped front panel, 6U, 10x	21102-107

Subracks – EuropacPRO

OVERVIEW OF INDIVIDUAL COMPONENTS FOR SHIELDED OR UNSHIELDED SUBRACKS

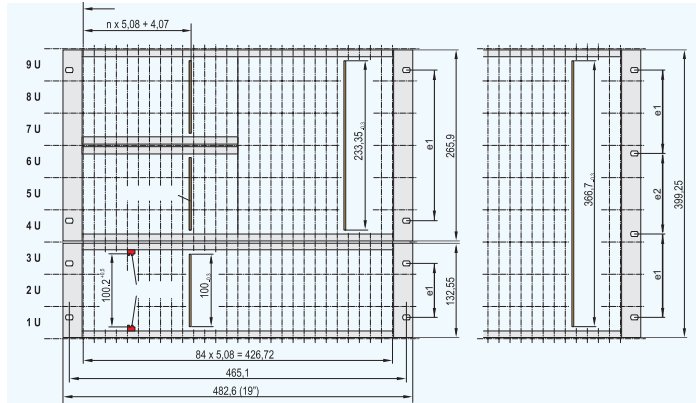


05108086

Item	Description	Description	page
Item 1	Side panel	Establishes the height and depth of the subrack; Al, 2 mm, with universal hole positions for assembly of accessories. Three versions: The "flexible" one with separate 19" brackets as well as two others with integrated 19" brackets for "light" and "heavy" applications.	6.24
Item 2	Horizontal rail	Establishes the width of the subrack; Al extrusion, with defined hole positions for guide rails, grooves for threaded inserts, M4 thread, functional rail shapes, basically differing with regard to their mechanical loading capacity: "light" (load up to 7.5 kg) and "heavy" (load > 7.5 kg).	6.30
Item 3	Guide rails	Act as interface between subracks and boards, for different board formats, are available in plastic or metal, optionally codable and can be fitted with ESD clips to allow electrostatic discharge, also optionally.	6.39
Item 4	Cover plates	Provide mechanical protection and/or EMC shielding and are perforated.	6.48
Item 5	Rear/front	Rear hood (5a) or front panel (5b) with corner profile (5c) act as support for EMC shielding gaskets used in conjunction with shielded front panels. Note: Rear hood and corner profile cannot be fitted simultaneously.	6.56
Item 6	Handles	Can be mounted on the 19" brackets.	6.29
–	EMC shielding (without illustration)	Extensive component range for specific shielding of subracks with respect to their application.	6.57
–	Interior assemblies (without illustration)	Universal assemblies, e.g. for horizontal and vertical assembly and for mounting plates.	6.76

Subracks – EuropacPRO

SUBRACK DIMENSIONS



20304051

- Dimensions in accordance with international standards EC 60297-3-100, IEEE 1101.1/.10/.11; please see the SCHROFF Standards Summary for details
- Side panels
 - Aluminium, 2 mm
 - Round holes for mounting horizontal rails (depth grid 15 mm)
 - Impressions on the inner side of the side panel act as an anti-rotation guard and positioning aid for the horizontal rails
 - Square holes (6 x 6 mm) provide universal fixing for components such as backplane shielding; version without square holes available on request

Depth grid

The depth grid is 15 mm, the mounting holes in the side panel are decisive for the configurability of individual components; thus any combination of various individual parts is possible



06197003

Side panel 3 U, 6 U and 9 U

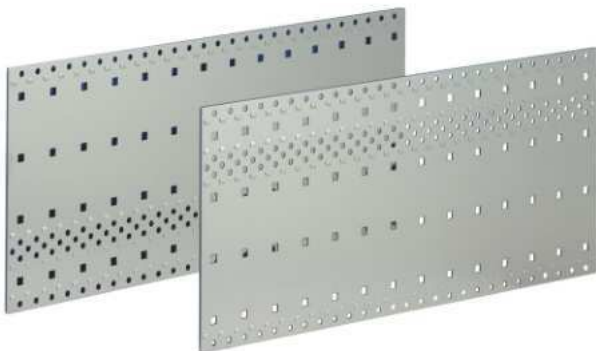
3 and 6 U side panels have the same hole positions (the 6 U is a doubling vertically of the 3 U); thus subdivisions can be made in the vertical dimension (6 U: 2 x 3 U; 9 U: 3 x 3 U)



06108008

Side panel 4 U

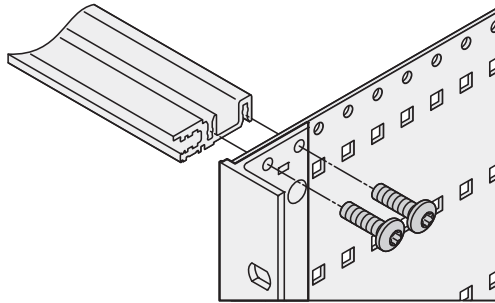
4 U side panels have the same hole positions as 3 U and additionally 1 U (above or beneath the 3 U installation); this height allows the construction of a 3 U unit with 1 U clearance for cabling or airflow



06108011

Subracks – EuropacPRO

SIDE PANELS



Side panel - horizontal rail assembly

06108062

- Aluminium
- Round holes for mounting horizontal rails (depth grid 15 mm)
- Impressions on the inner side of the side panel act as an anti-rotation guard and positioning aid for the horizontal rails
- Square holes (6 x 6 mm) provide universal fixing for components such as backplane shielding; version without square holes available on request
- Only one type of screw driver (T20) is needed for the assembly
Torx panhead screw, M4 x 14;
Torque side panel - horizontal rail 2.4 Nm;
Torque side panel - cover plate 1.3 Nm
- 4 versions of the side panel:
 - Type F = flexible
 - Type H = heavy
 - Type L = light
 - Type R = rugged



06197003

Type F (flexible)

- Universal version: 19" bracket (please order separately) can be fitted variably to front, rear or depth-offset
- Heights: 3, 4, 6 and 9 U
Depths: 175, 235, 275, 277.75, 295, 355, 415 and 475 mm;
Other dimensions on request
- 2 EMC shielding concepts for the front/rear:
stainless steel or textile EMC gasket
- Installed load up to 11 kg



06197004

Type H (heavy)

- 19" bracket is tox-cold welded to side panel; particularly designed for mechanically demanding environments (vibration resistance, applications requiring high levels of shock and vibration, e.g. IEC 61587-2)
- Heights: 3 and 6 U
Depths: 175, 235, 295 and 355 mm
Other dimensions on request
- 2 EMC shielding concepts for the front/rear:
with stainless steel or textile EMC gasket
- Installed load up to 15 kg

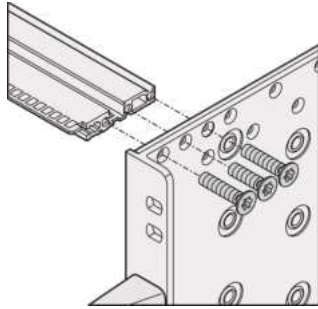


06197002

Type L (light)

- Side panel with moulded 19" bracket, for standard applications, unshielded
- Particularly cost-effective version (not suitable for EMC applications)
- Heights: 3 and 6 U
Depths: 175, 235 and 295 mm
Other dimensions on request
- Installed load up to 7.5 kg

SIDE PANELS



Example shows:
Side panel type rugged to horizontal rail type rugged

06112056

- Aluminium
- Round holes for mounting horizontal rails (depth grid 15 mm)
- Impressions on the inner side of the side panel act as an anti-rotation guard and positioning aid for the horizontal rails
- Square holes (6 x 6 mm) provide universal fixing for components such as backplane shielding; version without square holes available on request
- Only one type of screw driver (T20) is needed for the assembly.
Torx countersunk screw, M4 x 18; (with thread locking compound)
Torque side panel - horizontal rail 2.4 Nm;
Torque side panel - cover plate 1.3 Nm)



08230769

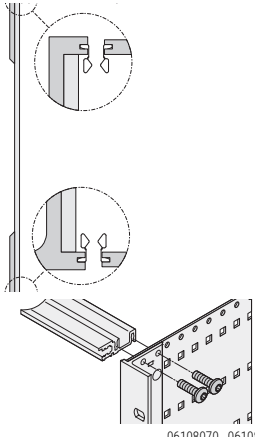
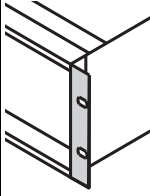
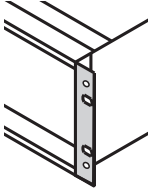
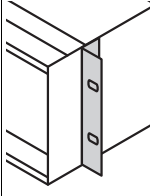
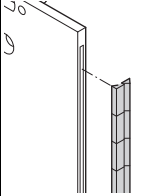
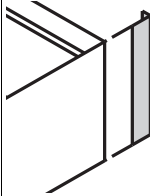
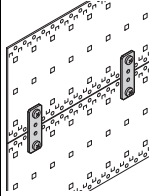
Type R (rugged)

- 19" bracket (3,5mm) is tox-cold welded to side panel (3mm); particularly designed for mechanically demanding environments.
- Shock and vibration tested in compliance with:
DIN EN 61587 -DL3 up to 25g
MIL 167,
MIL 810G,
MIL 901D.
Shock and vibration resistant in all three axial directions.
- Heights: 3 and 6 U
Depths: 175, 235, 275, 277,75, 295 and 355 mm.
Other dimensions on request
- **One** EMC shielding concepts for front/rear side:
Textile EMC gasket (-40°C up to +85°C)
- Installed load up to 25 kg

Subracks – EuropacPRO

SIDE PANELS TYPE F FOR STAINLESS STEEL GASKET

ORDER INFORMATION

		Side panel type F	19" bracket without handle holes	19" bracket with handle holes	19" bracket depth- adjustable	EMC gasket (stainless steel)	Rear angle	Side panel connection
		 without 19" bracket, Al, 2 mm, passivated, please order 19" bracket and corner profile separately	 with lateral grooves for stainless steel EMC gasket, Al extrusion, rear side etched, front anodised	 with lateral grooves for stainless steel EMC gasket, Al extrusion, rear side etched, front anodised please order front handles separately,	 Al extrusion, passivated	 inserted laterally into the grooves of the front panel	 Al extrusion, surface clear passivated; with lateral grooves for stainless steel EMC gasket; rear hood cannot be mounted simultaneously	 Zn die-cast, incl. fixing material kit, for connecting two by two side panels (on top of each other)
Height U	Depth mm	1 piece	PU 1 pair	PU 1 pair	PU 1 pair	PU 10 pieces	PU 1 pair	PU 4 pieces
3	175	34560-185	24560-197	24560-198	24560-199	21101-705	24561-198	21101-954
3	235	34560-187						
3	275	1) 34579-300						
3	277.75	2) 34579-002						
3	295	34560-189						
3	355	34560-191						
3	415	34560-193						
3	475	34560-195	24560-297	24560-298	24560-299	21101-713	24561-298	21101-954
4	175	3) 34560-285						
4	235	3) 34560-287						
4	295	3) 34560-289						
4	355	3) 34560-291						
4	415	3) 34560-293						
4	475	3) 34560-295						
6	175	34560-485	24560-497	24560-498	24560-499	21101-707	24561-498	21101-954
6	235	34560-487						
6	275	1) 34579-038						
6	277.75	2) 34579-012						
6	295	34560-489						
6	355	34560-491						
6	415	34560-493						
6	475	34560-495						
6	970	34560-496	24560-797	24560-798	24560-799	21101-709	24561-798	21101-954
9	175	34560-785						
9	235	34560-787						
9	295	34560-789						
9	355	34560-791						
9	415	34560-793						
Screw, M4 x 14, PU 100 pieces, for fastening horizontal rail to side panel		24560-130	24560-130	24560-130	24560-130	–	24560-130	–
Screw, M4 x 10, required if guide rails are screwed to slot 1, PU 100 pieces		24560-155	24560-155	24560-155	24560-155	–	24560-155	–

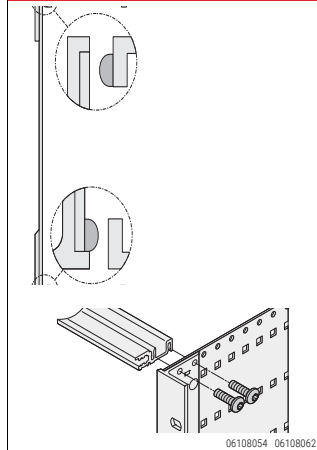
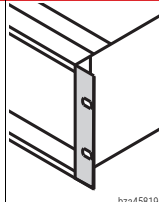
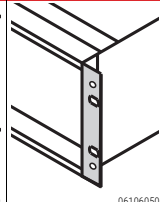
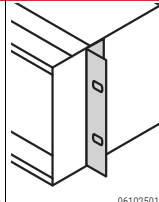
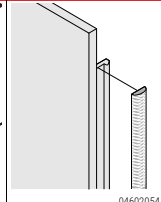
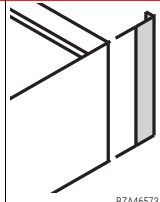
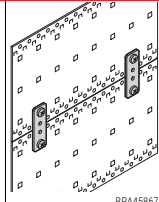
1) CompactPCI 2) VME64x 3) Grid holes of side panel 3 + 1 U

• View of side panels 3, 4, 6, 9 U see page 6.22

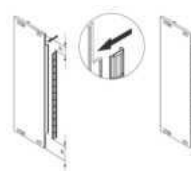
Subracks – EuropacPRO

SIDE PANELS TYPE F FOR TEXTILE EMC GASKET

ORDER INFORMATION

Illustration shows standard assembly, not VME or CompactPCI bus with rear I/O		Side panel type F	19" bracket without handle holes	19" bracket with handle holes	19" bracket depth-adjustable	EMC gasket (textile)	Rear angle	Side panel connection
		 06197003 without 19" bracket, Al, 2 mm, passivated, please order 19" bracket and corner profile separately	 bza45819 Al extrusion for textile EMC gasket rear side etched, front anodised	 06106050 Al extrusion for textile EMC gasket, rear side etched, front anodised, please order front handles separately, see page 6.27	 06102501 Al extrusion, passivated	 04602054 textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0	 BZA46573 Al extrusion, etched; for textile EMC gasket	 BPA45867 Zn die-cast, incl. fixing material kit, for connecting two by two side panels (on top of each other)
Height U	Depth mm	1 piece	PU 1 pair	PU 1 pair	PU 1 pair	PU 10 pieces	PU 1 pair	PU 4 pieces
3	175	34560-185	24564-197	24564-198	24560-199	21101-853	24564-199	21101-954
3	235	34560-187						
3	275	1) 34579-300						
3	277.75	2) 34579-002						
3	295	34560-189						
3	355	34560-191						
3	415	34560-193						
3	475	34560-195						
4	175	3) 34560-285	24564-297	24564-298	24560-299	21101-858	24564-299	21101-954
4	235	3) 34560-287						
4	295	3) 34560-289						
4	355	3) 34560-291						
4	415	3) 34560-293						
4	475	3) 34560-295						
6	175	34560-485	24564-497	24564-498	24560-499	21101-855	24564-499	21101-954
6	235	34560-487						
6	275	1) 34579-038						
6	277.75	2) 34579-012						
6	295	34560-489						
6	355	34560-491						
6	415	34560-493						
6	475	34560-495						
6	970	34560-496						
9	175	34560-785	24564-797	24564-798	24560-799	21101-859	24564-799	21101-954
9	235	34560-787						
9	295	34560-789						
9	355	34560-791						
9	415	34560-793						
Screw, M4 x 14, PU 100 pieces, for fastening horizontal rail to side panel		24560-130	24560-130	24560-130	24560-130	–	24560-130	–
Screw, M4 x 10, required if guide rails are screwed to slot 1, PU 100 pieces		24560-155	24560-155	24560-155	24560-155	–	24560-155	–

1) CompactPCI 2) VME64x 3) Grid holes of side panel 3 + 1 U



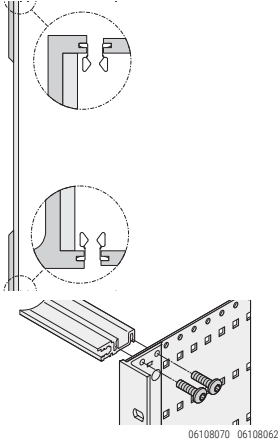
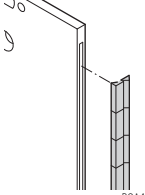
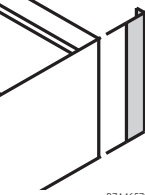
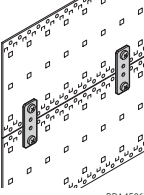
EMC gasket stainless steel, for U-shaped front panel

1 Kit, 3U, 10pcs **21102-105**
 1 Kit, 4U, 10pcs **21102-113**
 1 Kit, 6U, 10pcs **21102-107**
 1 Kit, 9U, 10pcs **21102-109**

Subracks – EuropacPRO

SIDE PANELS TYPE H FOR STAINLESS STEEL EMC GASKET

ORDER INFORMATION

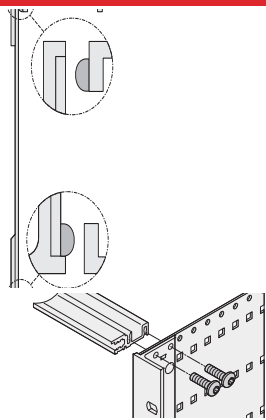
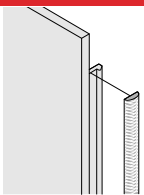
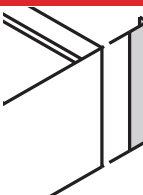
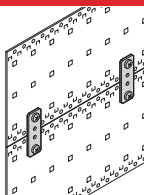
		Side panel type H for stainless steel EMC gasket		EMC gasket (stainless steel)	Rear angle	Side panel connection
		without handle holes	with handle holes			
		 06197004 for high mechanical demands, 19" bracket, tox-cold welded, Al, 2 mm, clear passivated, front anodised	 06107001 for high mechanical demands, 19" bracket, tox-cold welded, Al, 2 mm, clear passivated, front anodised, please order front handles separately see page 6.27	 BGA45760 inserted laterally into the grooves of the front panel	 BZA46573 Al extrusion, surface clear passivated; with lateral grooves for stainless steel EMC gasket; rear hood cannot be mounted simultaneously	 BPA45867 Zn die-cast, incl. fixing material kit, for connecting two by two side panels (on top of each other)
Height U	Depth mm	PU 1 pair	PU 1 pair	PU 10 pieces	PU 1 pair	PU 4 pieces
3	175	24566-125	24567-125	21101-705	24561-198	21101-954
3	235	24566-127	24567-127			
3	275 1)	–	–			
3	277.75 2)	–	–			
3	295	24566-129	24567-129			
3	355	24566-131	24567-131			
3	415	–	–			
3	475	–	–			
4	175 3)	–	–	–	–	–
4	235 3)					
4	295 3)					
4	355 3)					
4	415 3)					
4	475 3)					
6	175	24566-425	24567-425	21101-707	24561-498	21101-954
6	235	24566-427	24567-427			
6	275 1)	–	–			
6	277.75 2)	–	–			
6	295	24566-429	24567-429			
6	355	24566-431	24567-431			
6	415	–	–			
6	475	–	–			
6	970	–	–			
9	175	–	–	–	–	–
9	235					
9	295					
9	355					
9	415					
Screw, M4 x 14, PU 100 pieces, for fastening horizontal rail to side panel		24560-130	24560-130	–	24560-130	–
Screw, M4 x 10, required if guide rails are screwed to slot 1, PU 100 pieces		24560-155	24560-155	–	24560-155	–

1) CompactPCI 2) VME64x 3) Grid holes of side panel 3 + 1 U

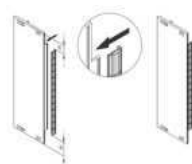
Subracks – EuropacPRO

SIDE PANELS TYPE H FOR TEXTILE EMC GASKET

ORDER INFORMATION

Illustration shows standard assembly, not VME or CompactPCI bus with rear I/O		Side panel type H for textile EMC gasket		EMC gasket (textile)	Rear angle	Side panel connection			
		without handle holes	with handle holes						
		 06197004 for high mechanical	 06107001 for high mechanical demands, 19" bracket,	 04602054 textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0	 BZA46573 Al extrusion, etched; for textile EMC gasket	 BPA45867 Zn die-cast, incl. fixing material kit, for connecting two by two side panels (on top of each other)			
Height U	Depth mm	PU 1 pair	PU 1 pair	PU 10 pieces	PU 1 pair	PU 4 pieces			
3	175	24564-145	24566-145	21101-853	24564-199	21101-954			
3	235	24564-147	24566-147						
3	275 1)	–	–						
3	277.75 2)	–	–						
3	295	24564-149	24566-149						
3	355	24564-151	24566-151						
3	415	–	–						
3	475	–	–	–	–	–			
4	175 3)	–	–						
4	235 3)								
4	295 3)								
4	355 3)								
4	415 3)								
4	475 3)								
6	175	24564-445	24566-445	21101-855	24564-499	21101-954			
6	235	24564-447	24566-447						
6	275 1)	–	–						
6	277.75 2)	–	–						
6	295	24564-449	24566-449						
6	355	24564-451	24566-451						
6	415	–	–						
6	475	–	–	–	–	–			
6	970	–	–						
9	175	–	–						
9	235								
9	295								
9	355								
9	415								
Screw, M4 x 14, PU 100 pieces, for fastening horizontal rail to side panel		24560-130	24560-130	–	24560-130	–			
Screw, M4 x 10, required if guide rails are screwed to slot 1, PU 100 pieces		24560-155	24560-155	–	24560-155	–			

1) CompactPCI 2) VME64x 3) Grid holes of side panel 3 + 1 U



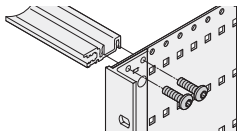
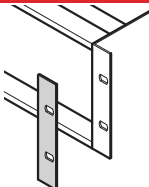
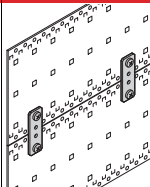
EMC gasket stainless steel, for U-shaped front panel

1 Kit, 3U, 10pcs **21102-105**
 1 Kit, 4U, 10pcs **21102-113**
 1 Kit, 6U, 10pcs **21102-107**
 1 Kit, 9U, 10pcs **21102-109**

Subracks – EuropacPRO

SIDE PANELS TYPE L

ORDER INFORMATION

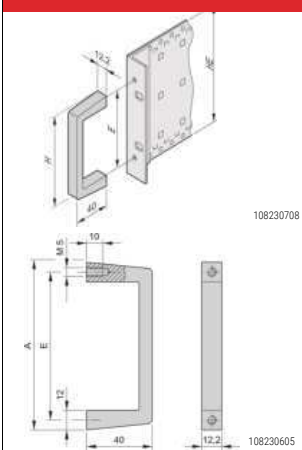
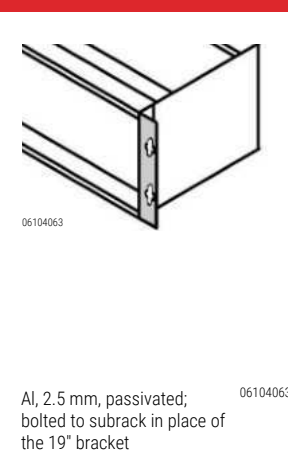
		Side panel type L	Front cover	Collar screw with slot for assembly of front cover	Sleeves for assembly of front cover	Side panel connection
		 06197002 Al, 2 mm, passivated	 BZA45810 for decorative finish of 19" bracket, Al, 2 mm, anodised	 136752559 M6 x 16, St, nickel-plated	 135436402 PPE, black	 BPA45867 Zn die-cast, incl. fixing material kit, for connecting two by two side panels (on top of each other)
Height U	Depth mm	1 piece	1 piece	PU 100 pieces	PU 100 pieces	PU 4 pieces
3	175	34561-185	34561-197	21100-565	21100-566	21101-954
3	235	34561-187				
3	275	1) —				
3	277.75	2) —				
3	295	34561-189				
3	355	—				
3	415	—	—	—	—	—
3	475	—				
4	175	3) —				
4	235	3) —				
4	295	3) —				
4	355	3) —				
4	415	3) —				
4	475	3) —				
6	175	34561-485	34561-497	21100-565	21100-566	21101-954
6	235	34561-487				
6	275	1) —				
6	277.75	2) —				
6	295	34561-489				
6	355	—				
6	415	—	—	—	—	—
6	475	—				
6	970	—				
9	175	—				
9	235	—				
9	295	—				
9	355	—				
9	415	—				
Screw, M4 x 14, PU 100 pieces, for fastening horizontal rail to side panel		24560-130	—	—	—	—
Screw, M4 x 10, required if guide rails are screwed to slot 1, PU 100 pieces		24560-155	—	—	—	—

1) CompactPCI 2) VME64x 3) Grid holes of side panel 3 + 1 U

Subracks – EuropacPRO

FRONT HANDLES, WALL-MOUNTING BRACKETS

ORDER INFORMATION

Front handle Al extrusion, anodised / black, width 12.2mm, load-carrying capacity 30 kg				Front handle clear anodised, straight version	black anodised, straight version	clear anodised, angled version	Wall-mounting bracket
							
Height U	Depth mm	A = H mm	E mm	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	PU 1 pair
3	175	102	88.0	10501-005	10501-026	10501-020	24562-197
3	235	102	88.0				
3	275	102	88.0				
3	277.75	102	88.0				
3	295	102	88.0				
3	355	102	88.0				
3	415	102	88.0				
3	475	102	88.0	10501-018	–	10501-021	24562-297
4	175	146	133.4				
4	235	146	133.4				
4	295	146	133.4				
4	355	146	133.4				
6	175	249	235.0	10501-008	10501-029	10501-022	24562-497
6	235	249	235.0				
6	275	249	235.0				
6	277.75	249	235.0				
6	295	249	235.0				
6	355	249	235.0				
6	415	249	235.0				
9	175	249	235.0	10501-001	10501-029	10501-022	24562-797
9	235	249	235.0				
9	295	249	235.0				
9	355	249	235.0				
9	415	249	235.0				
Screw M5 x 12, PU 100 pieces				24560-183	24560-183	24560-183	–
Screw M5 x 12, PU 4 pieces				24560-181	24560-182	24560-182	–
Screw, M4 x 14, PU 100 pieces				–	–	–	24560-130

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

Subracks – EuropacPRO

HORIZONTAL RAILS



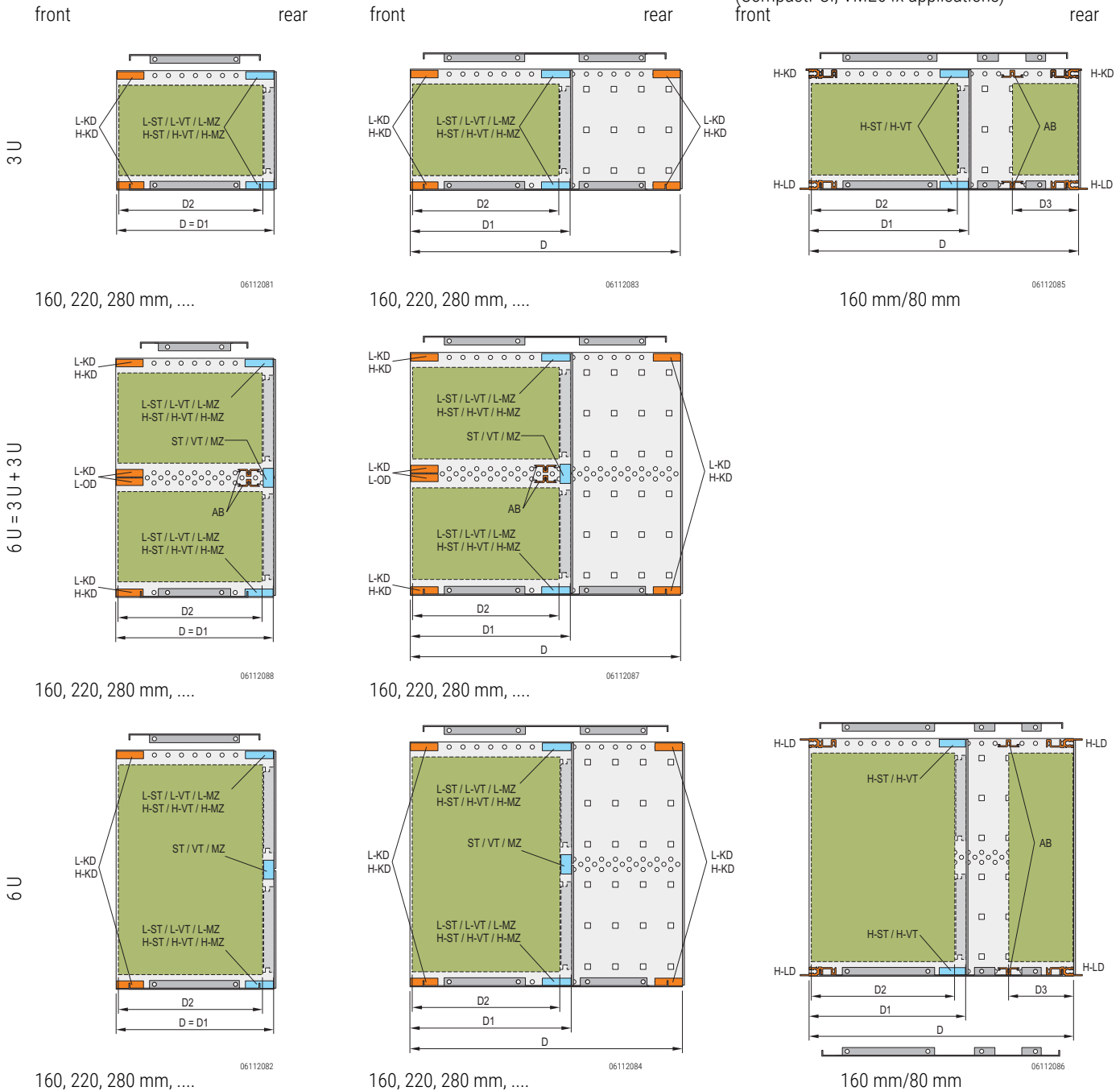
- Aluminium profile, surface anodised, conductive contact surfaces for EMC gaskets
- The horizontal rail is marked with sequential numbering (for sizes > 28 HP) to facilitate positioning of the guide rails
- Horizontal rails are fixed to the side panel using M4 bolts with torx 20 drive
- There are 3 different horizontal rails for different loading levels
 - light, for up to 7.5 kg
 - heavy, for 7.5 kg to 15 kg
 - rugged, for 15 kg to approx. 25kg

MOUNTING POSITION OF THE HORIZONTAL RAILS

PCB as deep as side panel

Cabling space behind backplane

Rear I/O installation
(CompactPCI, VME64x applications)



Subracks – EuropacPRO

FRONT HORIZONTAL RAILS

Assembly 3 U, 2 x 3 U, 6 U

"light" (L)



06197007

"heavy" (H)



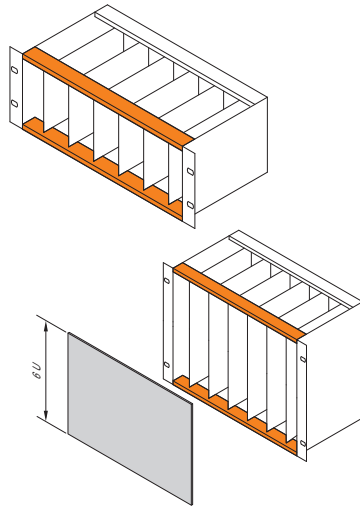
06197008

"heavy" (H)



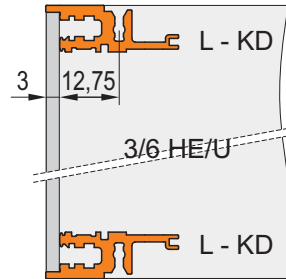
06197009

3 U/6 U



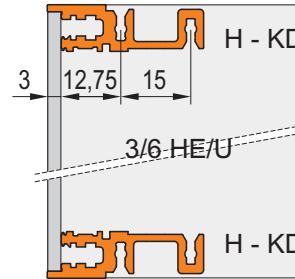
bza44980 bza44974

Short lip



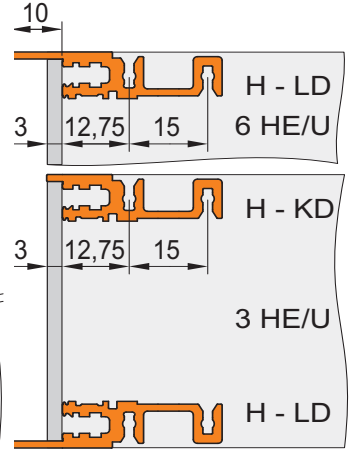
06105060

Short lip



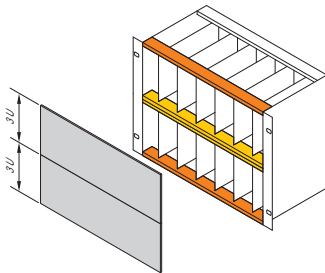
06105061

Long lip

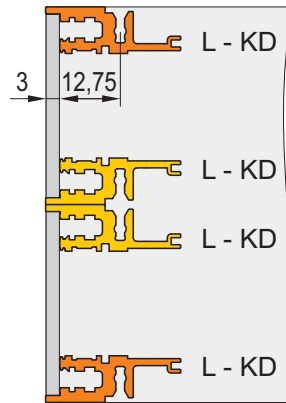


06108063

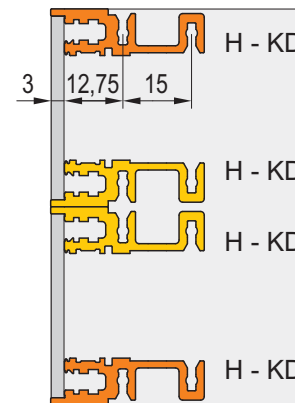
2 x 3 U



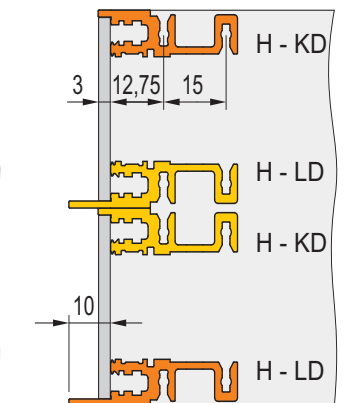
bza44972



06105062

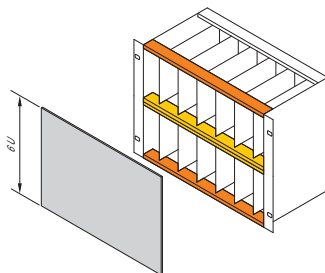


06105063

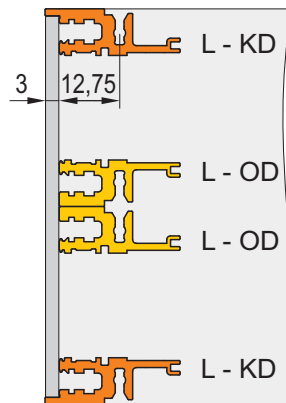


06108064

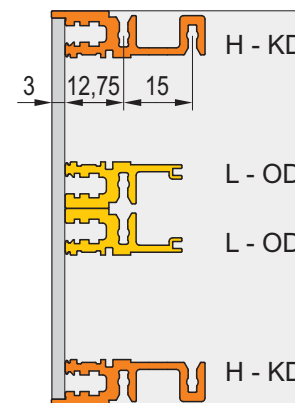
2 x 3 U, 6 U



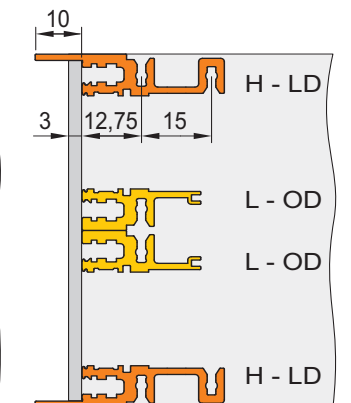
06105059



06105064



06105065



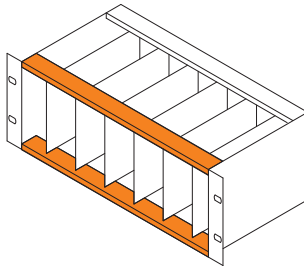
06108065

L-OD = Light - without lip, L-KD = Light - short lip, H-KD = Heavy - short lip, H-LD = Heavy - long lip

Subracks – EuropacPRO

FRONT HORIZONTAL RAILS

ORDER INFORMATION

		"light" Type L-OD without lip	"light" Type L-KD short lip	"heavy" Type H-KD short lip	With long lip for insertion/ extraction of CompactPCI and VME64x boards "heavy" Type H-LD long lip
 bza44980	 06197006	 06197007	 06197008	 06197009	
With HP markings from 28 HP, Al extrusion, anodised finish, conductive contact surface	Al extrusion, anodised finish, conductive contact surface, with printed HP markings without lip: 2 x 3 U installation and continuous 6 U front panel	Al extrusion, anodised finish, conductive contact surface, with printed HP markings short lip: horizontal rail and front panel form a single plane	Al extrusion, anodised finish, conductive contact surface, with printed HP markings short lip: horizontal rail and front panel form a single plane	Al extrusion, anodised finish, conductive contact surface, with printed HP markings long lip: for insertion/extraction of CompactPCI or VME64x boards	
Usable length HP	Length mm	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾
20	106.68	34560-020	34560-120	34560-220	34560-320
28	147.32	34560-028	34560-128	34560-228	34560-328
40	208.28	34560-040	34560-140	34560-240	34560-340
42	218.44	34560-042	34560-142	34560-242	34560-342
63	325.12	34560-063	34560-163	34560-263	34560-363
84	431.80	34560-084	34560-184	34560-284	34560-384
–	1000	34560-001	34560-101	34560-201	34560-301
Screw, M4 x 14, PU 100 pieces		24560-130	24560-130	24560-130	24560-130
Screw, M4 x 10, required if guide rails are screwed to slot 1, PU 100 pieces		–	–	24560-155	24560-155
Threaded inserts see page	6.35	6.35	6.35	6.35	6.35

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

"light": loading capacity up to approx. 7.5 kg; "heavy": loading capacity > 7.5 kg

NOTE

- 1000 mm version without M4 thread to front, without printed markings and without notch for 19"-bracket
- Rugged horizontal rails with 3 fixing holes see section "Rugged Subracks", page 6.99

Subracks – EuropacPRO

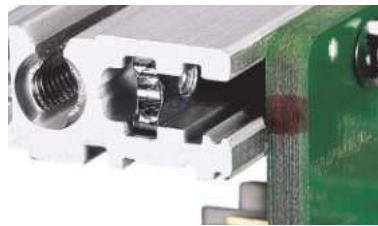
REAR HORIZONTAL RAILS

Indirect backplane mounting (with insulation strip)



04400001

Direct backplane mounting



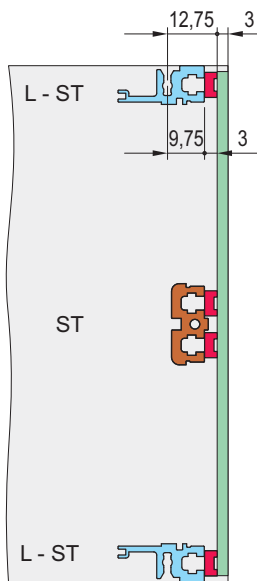
04400002

Connector fitting with Z

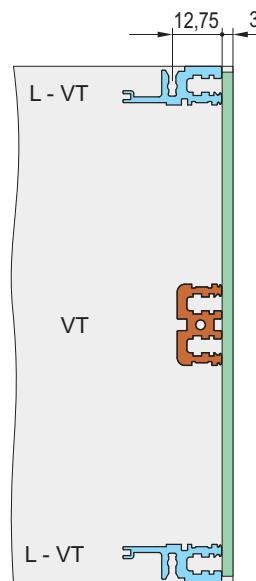


04400003

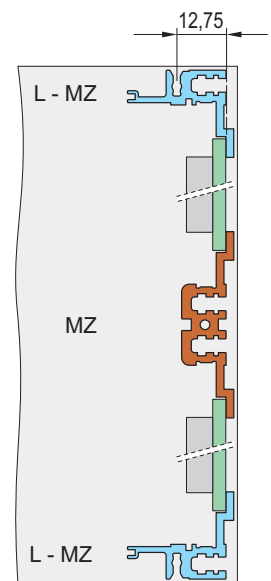
"light"



06105072

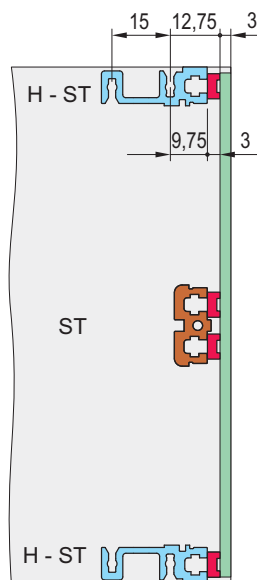


06105073

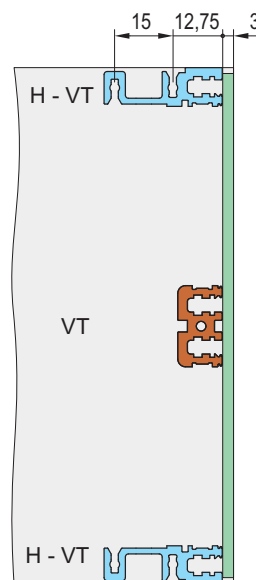


06105071

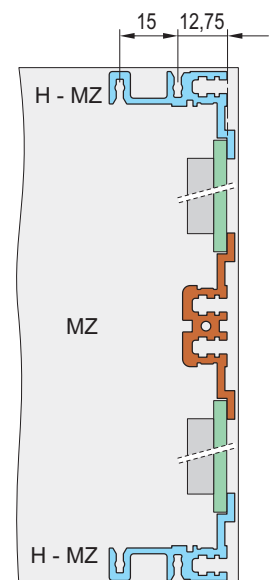
"heavy"



06108066



06108067



06108068

ST = standard, L = light, H = heavy

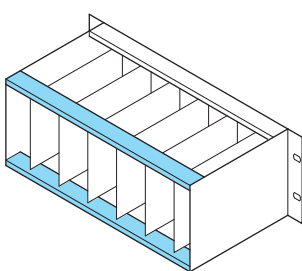
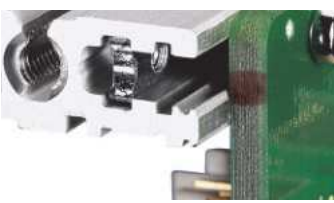
VT = depth-offset, L = light, H = heavy

MZ = with Z-rail, L = light, H = heavy

Subracks – EuropacPRO

REAR HORIZONTAL RAILS, TOP AND BOTTOM

ORDER INFORMATION

		For indirect backplane mounting with insulation strip		For direct backplane mounting		For direct fixing of connectors in accordance with EN 60603-2 (DIN 41612)	
 06105074	 04400001	 04400002	 04400003	"light" Type L-ST standard	"heavy" Type H-ST standard	"light" Type L-VT + 3 mm	"heavy" Type H-VT + 3 mm
				 06197010	 06197011	 06197011	 06197013
With HP markings from 28 HP, Al extrusion, anodised finish, conductive surface		Al extrusion, anodised surface, conductive contact surface, with printed HP markings		Al extrusion, anodised surface, conductive contact surface, with printed HP markings		Al extrusion, anodised surface, conductive contact surface, with printed HP markings	
Usable length HP	Length mm	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾
20	106.68	34560-420	34560-520	34560-620	34560-720	34560-820	34560-920
28	147.32	34560-428	34560-528	34560-628	34560-728	34560-828	34560-928
40	208.28	34560-440	34560-540	34560-640	34560-740	34560-840	34560-940
42	218.44	34560-442	34560-542	34560-642	34560-742	34560-842	34560-942
63	325.12	34560-463	34560-563	34560-663	34560-763	34560-863	34560-963
84	431.80	34560-484	34560-584	34560-684	34560-784	34560-884	34560-984
–	1000	34560-401	34560-501	34560-601	34560-701	34560-801	–
Screw, M4 x 14, PU 100 pieces, for fastening horizontal rail to side panel		24560-130	24560-130	24560-130	24560-130	24560-130	24560-130
Screw, M4 x 10, required if guide rails are screwed to slot 1, PU 100 pieces		–	24560-155	–	24560-155	–	24560-155
Perforated rail for connector mounting with insulation strip see page		6.38	6.38	–	–	–	–
Z-rail for connector mounting without insulation strip see page		6.38	6.38	–	–	–	–
Insulation strips see page		6.37	6.37	–	–	–	–
Threaded inserts see page		6.37	6.37	6.37	6.37	6.37	6.37

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
 "light": loading capacity up to approx. 7.5 kg; "heavy": loading capacity > 7.5 kg

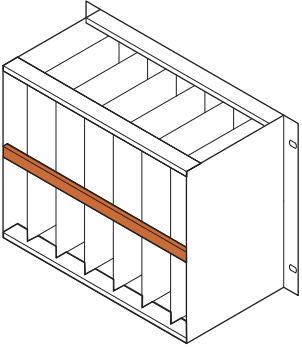
NOTE

- 1000 mm version without M4 thread to front, without printed markings and without notch for 19"-bracket
- Rugged horizontal rails with 3 fixing holes see section "Rugged Subracks", page 6.99

Subracks – EuropacPRO

REAR HORIZONTAL RAILS, CENTRE, FOR 6 U

ORDER INFORMATION

		For indirect backplane mounting with insulation strip	For direct backplane mounting	For direct fixing of connectors in accordance with EN 60603-2 (DIN 41612)
 06108090		 04400001 Typ ST  06197016 Al extrusion, anodised surface, conductive contact surface, without printed markings	 04400002 Typ VT  06197017 Al extrusion, anodised surface, conductive contact surface, without printed markings	 04400003 Typ MZ  06197018 Al extrusion, anodised surface, conductive contact surface, without printed markings
Usable length HP	Length mm	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾
20	106.68	34561-020	34561-120	34561-220
28	147.32	34561-028	34561-128	34561-228
40	208.28	34561-040	34561-140	34561-240
42	218.44	34561-042	34561-142	34561-242
63	325.12	34561-063	34561-163	34561-263
84	431.80	34561-084	34561-184	34561-284
–	1000	34561-001	34561-101	34561-201
Screw, M4 x 14, PU 100 pieces, for fastening horizontal rail to side panel		24560-130	24560-130	24560-130
Insulation strips see page		6.37	–	–
Threaded inserts see page		6.37	6.37	6.37

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
"light": loading capacity up to approx. 7.5 kg; "heavy": loading capacity > 7.5 kg

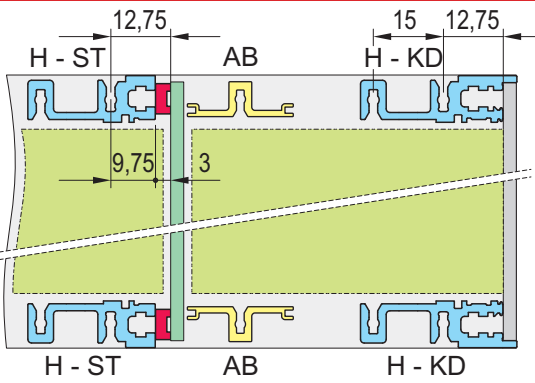
NOTE

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

Subracks – EuropacPRO

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

ORDER INFORMATION

		For supporting guide rails in the rear section	For CompactPCI in rear I/O area with notch
 06108069		 06108009 Typ AB  06197019 Al extrusion, anodised surface, conductive contact surface; horizontal rail type AB (AB = support) is required to fix the 80 mm rear I/O boards; without printed markings	 06108009 Typ AB  Al extrusion, anodised surface, conductive contact surface; horizontal rail type AB with notch for Compact PCI Rear / IO (AB = support) is required to fix the 80 mm rear I/O boards; without printed markings
Usable length HP	Length mm	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾
20	106.68	34561-520	—
28	147.32	34561-528	—
40	208.28	34561-540	—
42	218.44	34561-542	34579-042
63	325.12	34561-563	—
84	431.80	34561-584	—
—	1000	34561-501	34579-040
Screw, M4 x 14, PU 100 pieces, for fastening horizontal rail to side panel		24560-130	24560-130

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
 "light": loading capacity up to approx. 7.5 kg; "heavy": loading capacity > 7.5 kg

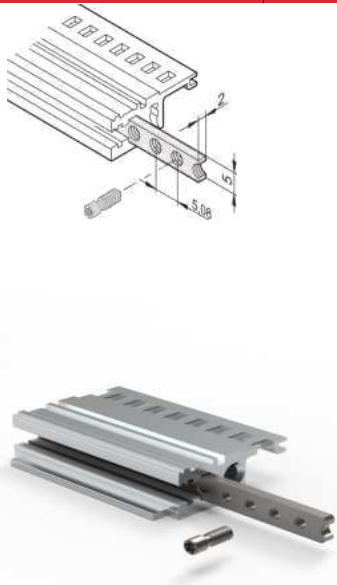
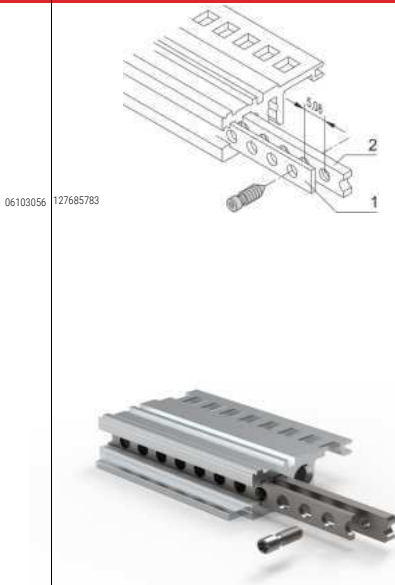
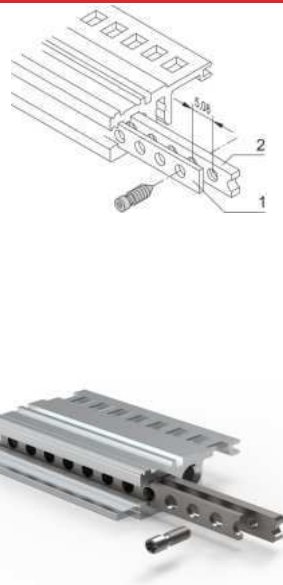
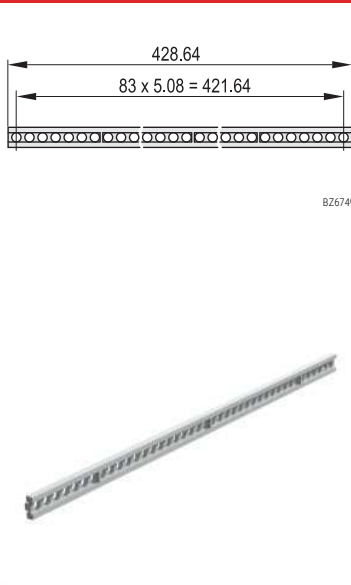
NOTE

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

Subracks – EuropacPRO

THREADED INSERTS, PERFORATED STRIPS, INSULATION STRIPS

ORDER INFORMATION

	Threaded insert M2.5		M3	Perforated strip (item 1)		Insulation strip	
	 required for fixing the front panel to the horizontal rail; St, zinc-plated; use collar screw 12.3 mm, see page 6.66			 for centring shielded plug-in units, Al, 1 mm, please order grub screw (torque: 0,37Nm) separately		 for insulated backplane mounting; PC, UL 94 V-0, grey	
Usable length HP	Threaded insert Length mm	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	Perforated strip Length mm	1 piece (SPQ 10) ¹⁾	Insulation strip Length mm	PU 10 pieces
20	106.18	34561-320	–	106.48	30845-189	101.50	24560-820
28	146.82	34561-328	–	147.12	30845-197	144.20	24560-828
40	207.78	34561-340	–	208.08	30845-209	205.12	24560-840
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
196	1000.26	34565-196	–	1000.56	34565-396		–

Accessories

Grub screw M2.5 x 8, PU 100 pieces	21100-276	–		–		–
Grub screw M2.5 x 9, Torx 8 PU 100 pieces	–	–		21102-980		–
Grub screw M3 x 8, PU 100 pieces	–	21100-646		–		–

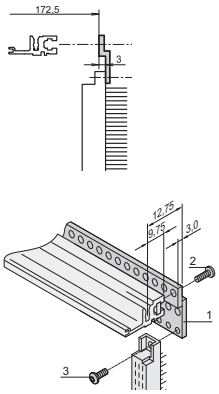
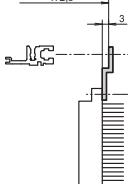
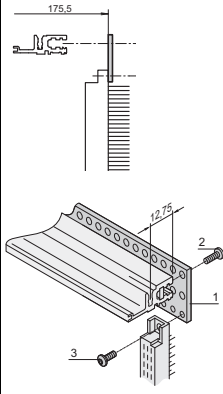
1) SPQ (standard pack quantity): Part number includes 1 piece, but delivery is exclusively made in standard pack quantity (SPQ); please order at least the SPQ quantity or a multiple

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

Subracks – EuropacPRO

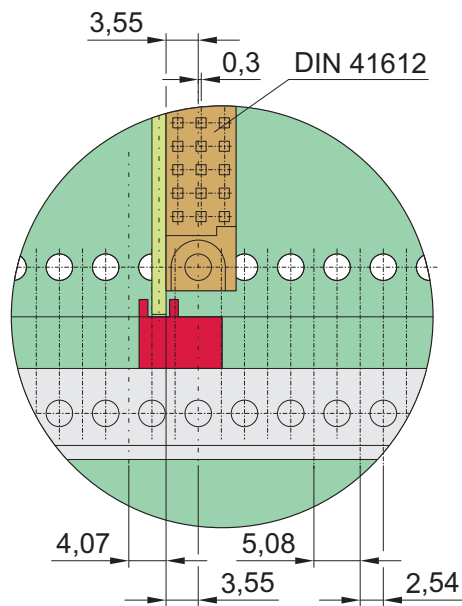
Z-RAILS, PERFORATED RAILS

ORDER INFORMATION

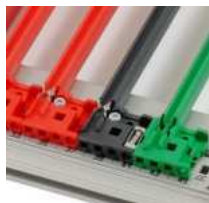
		Z-rail for connectors DIN EN 60603-2, DIN 41612 item 1	31-pin, DIN 41617	Perforated rail EN 606032, DIN 41612 item 1
		 BZA45849 06708063 for connector mounting on ST horizontal rails, please order threaded inserts and screw separately	 BZA45850 for connector mounting on ST horizontal rails, please order threaded inserts and screw separately	 BZA45848 06708051 for connector mounting on VT horizontal rails, please order threaded inserts and screw separately
Usable length HP	Length 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 screw to fix connector to perforated rail,, M2.5 x 7, PU 100 pieces		24560-147	24560-147	24560-147
Item3, torx panhead screw, to fix perforated rails to horizontal rail, M2.5 x 10, PU 100 pieces		—	—	24560-148

Subracks – EuropacPRO

GUIDE RAILS



Front view: position of guide rails to connector (EN 60603-2/ DIN 41612) 06108083



Guide rails form the interface between the subrack mechanics and the sub-assemblies (PCBs, plug-in units, frame-type plug-in units, ...).

Guide rails for standard applications are 2 HP wide. Guide rails with coding (e.g. for CompactPCI or VME64bus applications) are 4 HP wide.

There are groove widths of 2 mm and 2.5 mm.

The guide rails are clipped into the rectangular cut-outs of the horizontal rails. They can additionally be bolted to the horizontal rail (type H only) for higher shock and vibration requirements.

The printed HP markings on the horizontal rail (28 HP and above) allow the rails to be fitted in the correct position easily (position of sub-assembly = "number in viewing window" or in front of the arrow marking on the guide rails).

Applications for guide rails

For plug-in units and frame-type plug-in units (with front panels) (standard type)

For plug-in units and frame type plug-in units or for PCBs without their own front panel (accessory type or robust version)

For CompactPCI or VME64x plug-in units (type IEEE with coding; frame-type plug-in units cannot be fitted)

For plug-in drive unit modules or PCBs in 4.4" (111.7 mm) height (type 4.4")

Rugged guide rails to accommodate conduction cooled assembly (CCA) adaptor

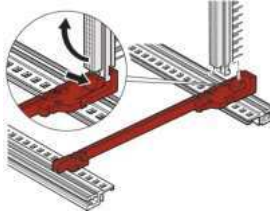
Accessories:

- ESD clip
- Keying/coding pegs
- Board locking

Subracks – EuropacPRO

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 Type: Standard		Type Standard , with DIN connector fixing (EN 60603-2, DIN 41612)
Assembly - can be clipped into Al extruded horizontal rails - can be clipped into 1.5 mm thick plates Storage temperature from -40 °C ... 130 °C Colors of Plastic material red: RAL 3000 grey: RAL 7016			 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 only, 100 x 160 mm or 100 x 220 mm
Board length	Groove width	Colour			
mm	mm	mm	PU 10 pieces ²⁾	1 piece (SPQ 50) ¹⁾	1 pair (SPQ 10) ¹⁾
70	2	red	–	34568-230	–
70	2	grey	–	–	–
160	2	red	24568-361	64568-001	64560-074
220	2	red	24568-362	64568-002	64560-075
280	2	red / silver	24568-379	–	–
340	2	red /silver	24568-380	–	–
160	2.5	red	–	64568-096	–
220	2.5	red	–	64568-098	–

Accessories

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

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

Description of accessories see from page 6.47

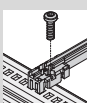
Subracks – EuropacPRO

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

ORDER INFORMATION

			Guide railsType Accessory		Guide railsType Accessory strengthened	for heavy modules, Al extrusion, silver, robust version
Assembly - can be clipped into Al extruded horizontal rails - can be clipped into 1.5 mm thick plates Storage temperature from -40 °C ... +130 °C Colors of Plastic Material red: RAL 3000 grey: RAL 7016			 up to 280 mm length, PC, UL 94 V-0; > 280 mm length, multi-piece, end piece PC, UL 94 V-0, middle section Al extrusion		 PC, UL 94 V-0, red; support beam of guide rails adds to strengthening	 Al extrusion; is screwed to horizontal rail "heavy" with retention screws
Board length mm	Groove width mm	Colour	PU 10 pieces ²⁾	1 piece (SPQ 50)	1 piece (SPQ 50)	1 piece (SPQ 10) ¹⁾
100	2	red	–	64568-082	–	–
160	2	red	24568-363	64568-005	64568-076	–
160	2	grey/silver	–	64568-055	–	34562-881
220	2	red	24568-364	64568-006	64568-078	–
220	2	grey/silver	–	64568-166	–	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	–	64568-100	64568-118	34564-881
220	2.5	red/silver	–	64568-102	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; torque max. 0.2 Nm		24560-141		24560-141		24560-141		24560-157
ESD clip, PU 50 pieces		24560-255		24560-255		24560-255		–
Board locking C, red, PU 10 pieces		24560-377		24560-377		24560-377		–
Board handle C, red, PU 10 pieces		24560-378		24560-378		24560-378		–
Identification strips for board handle, red, PU 1 sheet = 438 pieces		60817-228		60817-228		60817-228		–

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

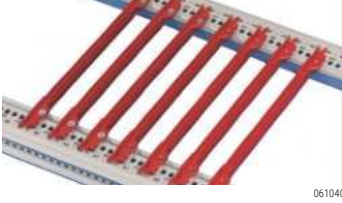
2) Part no. includes one packing unit (PU); delivery is exclusively made in PU

Description of accessories see from page 6.47

Subracks – EuropacPRO

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

ORDER INFORMATION

			Type with Coding , for CompactPCI, VME64x application. In accordance with IEEE 1101.10 and IEC 60297-3-103		Type with Coding , 0.1" OFFSET for power supply units. In accordance with IEEE 1101.10 and IEC 60297-3-103		Type. 4.4" PCBs	
Assembly - can be clipped into Al extruded horizontal rails - can be clipped into 1.5 mm thick plates Storage temperature from -40 °C ... 130 °C Colors of Plastic Material red: RAL 3000 grey: RAL 7016 green: RAL 6024			 One-piece for groove width 2 mm, PC, UL 94 V-0; multi-piece at groove width 2,5 mm, end-piece PC, UL 94 V-0, center piece Al profile		 PC, UL 94 V-0, for installation of power supplies in CompactPCI systems or plug-in units with SMD placement		 One-piece, PBT, UL 94 V-0; for 4.4" PCBs or drive unit modules	
Board length mm	Groove width mm	Colour mm	PU 10 pieces	1 piece (SPQ 50) ¹⁾	PU 10 pieces	1 piece (SPQ 50) ¹⁾	PU 10 pieces	1 piece (SPQ 50) ¹⁾
70	2	red	24568-357	64568-085	–	–	–	–
70	2	grey	24568-360	64568-086	–	–	–	–
160	2	red	24568-356	64568-089	–	–	24560-361	64560-143
160	2	grey	24568-358	64568-090	–	–	–	–
160	2	green	–	–	24568-359	64568-071	–	–
220	2	red	–	64568-091	–	–	24560-362	64560-144
220	2	grey	–	64568-092	–	–	–	–
220	2	green	–	–	–	64568-072	–	–
160	2.5	red	–	64568-109	–	–	–	64560-145
160	2.5	grey	–	64568-110	–	–	–	–
220	2.5	red	–	64568-111	–	–	–	64560-146
220	2.5	grey	–	64568-112	–	–	–	–
280	2.5	red / silver	24568-331	–	–	–	–	–
280	2.5	grey / silver	24568-341	–	–	–	–	–
340	2.5	red / silver	24568-332	–	–	–	–	–
340	2.5	grey / silver	24568-342	–	–	–	–	–

Accessories

ESD clip, PU 50 pieces	24560-255	24560-255	–	–	–	–
ESD clips, for alignment pin, PU 50 pieces	24560-256	24560-256	24560-256	24560-256	–	–
Retention screw, PU 100 pieces; torque max. 0.2 Nm	24560-141	24560-141	24560-141	24560-141	24560-158	24560-158
Coding peg, PU 100 pieces	20817-501	20817-501	20817-501	20817-501	–	–

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

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

Description of accessories see from page 6.47

Subracks – EuropacPRO

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

ORDER INFORMATION

Type with Coding, for CompactPCI, VME64x application. In accordance with IEEE 1101.10 and IEC 60297-3-103

ESD CLIPS preassembled

red colour

grey colour

Assembly

- can be clipped into Al extruded horizontal rails

- can be clipped into 1.5 mm thick plates

Storage temperature

from -40 °C ... 130 °C

Colors of Plastic Material

red: RAL 3000

grey: RAL 7016

Remark:

At least one guide rail with ESD clips is required per slot, to avoid electrostatic discharges

ESD Clip

Alignment PIN

ESD Clip

Picture shows 160mm long guide rail, mounting position bottom

24568-847 rendered

Picture shows 160mm long guide rail, mounting position bottom

24568-848 rendered

Board length

Groove width

Colour

Mounting Position

PU 10 pieces

mm

mm

mm

Accessories

Retention screw, PU 100 pieces; torque max. 0.2 Nm		24560-141	24560-141	
Coding peg, PU 100 pieces		20817-501	20817-501	

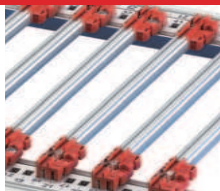
2) Part no. includes one packing unit (PU); delivery is exclusively made in PU

Description of accessories see from page 6.47

Subracks – EuropacPRO

GUIDE RAILS, MULTI-PIECE, GROOVE WIDTH 2 MM

ORDER INFORMATION

			standard type		Accessories type		For 4.4" PCBs	
PCBs: Fixed lengths for 160, 220, 280, 340 mm; length 1000 mm for special dimensions Mounting: pluggable into horizontal rails Storage temperature : End piece -40°C ... +130°C PVC profile 0°C ... +60°C			 06106004 end piece, PC, UL 94 V-0, middle section Al extrusion		 06106005 end piece, PC, UL 94 V-0, middle section plastic extrusion		 06106006 end piece, PC, UL 94 V-0, middle section Al extrusion	
Description	Length mm	Groove width mm	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾
End piece, red, 1 pair		2	64568-004	64568-004	64568-008	64568-008	64560-057	64560-057
Al extrusion, for 160mm board length	95	2	34560-891	34564-891	34560-891	34564-891	34560-891	34564-891
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 board length	215	2	34560-893	34564-893	34560-893	34564-893	34560-893	34564-893
Al extrusion, for 340 mm board length	275	2	34560-894	–	34560-894	–	34560-894	–
Al extrusion, for any board length	1000	2	34560-900	34564-900	34560-900	34564-900	34560-900	34564-900
Description	Length mm	Groove width mm	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾		
End piece, red, 1 pair		2.5	64568-014		64568-018			
Al extrusion, for 160 mm board length	95	2.5	34562-813	–	34562-813	–		
Al extrusion, for 220 mm board length	155	2.5	34562-814	–	34562-814	–		
Al extrusion, for 280 mm board length	215	2.5	34562-815	–	34562-815	–		
Al extrusion, for 340 mm board length	275	2.5	34562-816	–	34562-816	–		
Al extrusion, for any board length	1000	2.5	34562-822	–	34562-822	–		

Accessories

ESD clip, PU 50 pieces	24560-255	24560-255	24560-255	24560-255	–	–
Retention screw, PU 100 pieces; torque max. 0.2 Nm	24560-141	24560-141	24560-141	24560-141	24560-158	24560-158
Board locking C, red, PU 10 pieces	–	–	24560-377	24560-377	–	–
Board handle C, red, PU 10 pieces	–	–	24560-378	24560-378	–	–
Identification strips for board handle, red, PU 1 sheet = 438 pieces	–	–	60817-228	60817-228	–	–
Coding see page	–	–	see page 6.47		–	–

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

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

Description of accessories see from page 6.47

Subracks – EuropacPRO

GUIDE RAILS, MULTI-PIECE, GROOVE WIDTH 2 AND 2.5MM

ORDER INFORMATION

			Coding (IEEE) type					
			red		grey		green, 0,1" Offset	
PCBs: Fixed lengths for 160, 220, 280, 340 mm; length 1000 mm for special dimensions Mounting: pluggable into horizontal rails Storage temperature : End piece -40°C ...+130°C PVC profile 0°C ... +60°C red = similar RAL 3000, grey = similar RAL 7016, green = similar RAL 6024			 135313686		 135313698		 135313710	
			end piece, PC, UL 94 V-0, middle section Al extrusion	end piece, PBT, UL 94 V-0, middle section plastic extrusion (PVC, RAL 7035)	end piece, PC, UL 94 V-0, middle section Al extrusion	end piece, PBT, UL 94 V-0, middle section plastic extrusion (PVC, RAL 7035)	end piece, PC, UL 94 V-0, middle section Al extrusion	end piece, PBT, UL 94 V-0, middle section plastic extrusion (PVC, RAL 7035)
mm	Groove width mm		1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾
End piece, 1 pair	2		64568-093	64568-093	64568-094	64568-094	64568-095	64568-095
Al extrusion, for 160 mm board length	95	2	34560-891	34564-891	34560-891	34564-891	34560-891	34564-891
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 board length	215	2	34560-893	34564-893	34560-893	34564-893	34560-893	34564-893
Al extrusion, for 340 mm board length	275	2	34560-894	–	34560-894	–	34560-894	–
Al extrusion, for any board length	1000	2	34560-900	34564-900	34560-900	34564-900	34560-900	34564-900
Description	Length mm	Groove width mm	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾	1 piece (SPQ 10) ¹⁾
End piece, 1 pair	2.5		64568-093		64568-094		64568-095	
Al extrusion, for 160 mm board length	95	2.5	34562-813	–	34562-813	–	34562-813	–
Al extrusion, for 220 mm board length	155	2.5	34562-814	–	34562-814	–	34562-814	–
Al extrusion, for 280 mm board length	215	2.5	34562-815	–	34562-815	–	34562-815	–
Al extrusion, for 340 mm board length	275	2.5	34562-816	–	34562-816	–	34562-816	–
Al extrusion, for any board length	1000	2.5	34562-822	–	34562-822	–	34562-822	–

Accessories

ESD clip, PU 50 pieces	24560-255	24560-255	24560-255	24560-255	24560-255	24560-255
ESD clips, for alignment pin, PU 50 pieces	24560-256	24560-256	24560-256	24560-256	24560-256	24560-256
Retention screw, PU 100 pieces; torque max. 0.2 Nm	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

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

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

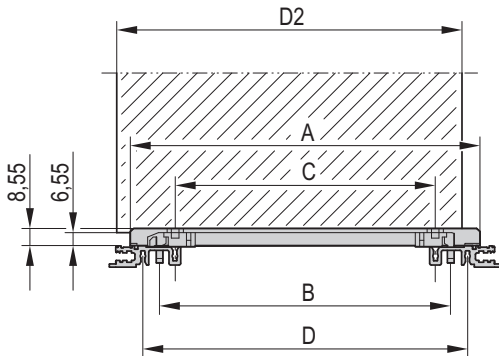
NOTE

- (*) only for groove width 2.0mm
- Headpieces with coding can be used for be used for groove width 2.0mm as well as for 2.5mm

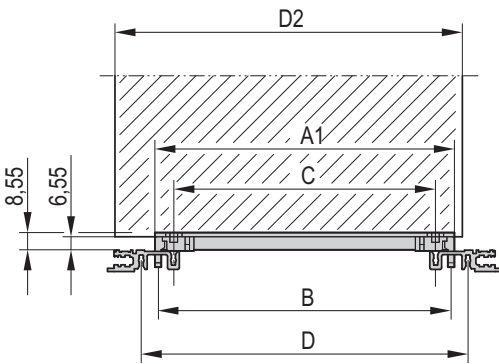
Subracks – EuropacPRO

DIMENSION DRAWINGS OF GUIDE RAILS

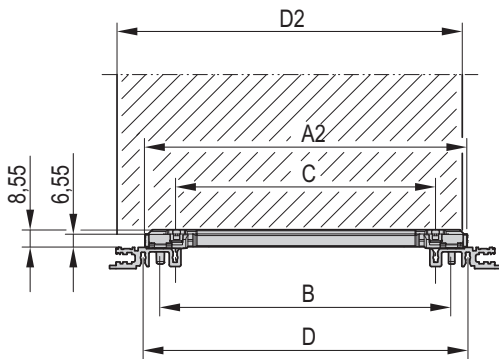
Standard



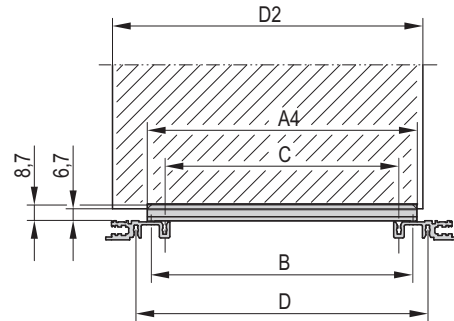
For accessories



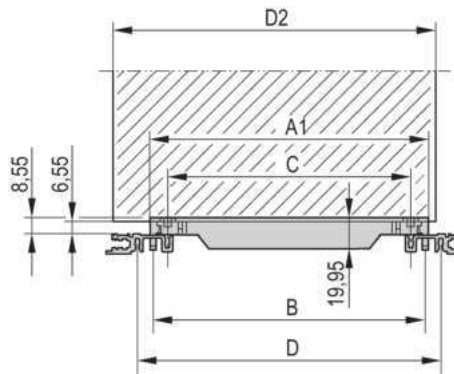
CompactPCI, VME64x



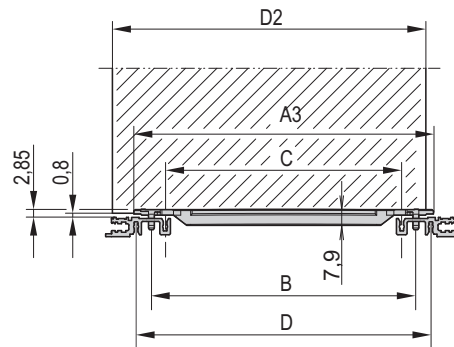
Robust version



For accessories, strengthened



4.4" (111.7 mm)



Dimensions table

Board length

L	Dimensions							
mm	A mm	A1 mm	A2 mm	A3 mm	A4 mm	B mm	C mm	D mm
70	71.5	47.9	59.39	63	49	45	30	60
100	101.5	77.9	89.39	93	79	75	60	90
160	161.5	137.9	149.39	153	139	135	120	150
220	221.5	197.9	209.39	213	199	195	180	210
280	281.5	257.9	269.39	273	259	255	240	270
340	341.5	317.9	322.39	333	319	315	300	330
400	401.5	377.9	389.39	393	379	375	360	390

A, A1, A2, A3, A4: Length of rail

B: Pitch of snap-in fixing

C: Pitch of guide rail retention screws

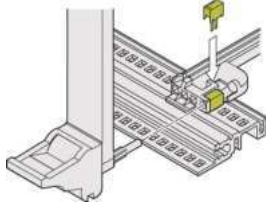
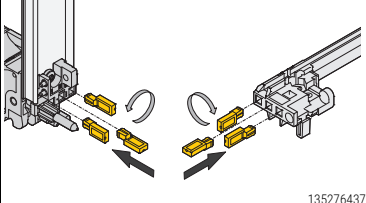
D: Pitch of horizontal rail retention screws

Table dimensions for guide rails

Subracks – EuropacPRO

GUIDE RAIL ACCESSORIES

ORDER INFORMATION

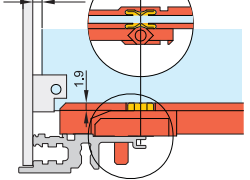
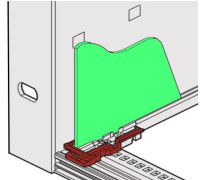
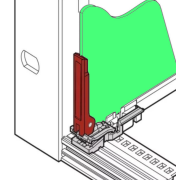
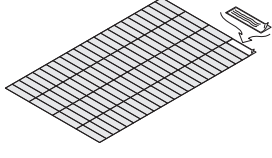
		ESD clips, CompactPCI/VME 64	Coding for subracks	
			Keying/coding block for guide rails accessory type	Keying/coding for CompactPCI, VME64x handles to IEEE 1011.10 and IEC 60297-3-103
			red, RAL 3000,	grey, RAL 7016
		 108230497 Spring steel, tin-plated, ESD clip, for alignment pin in accordance with IEEE; can be plugged into the guide rails with coding and into the keying/coding block; provides conductive contact between the alignment pin of the insertion/extractor handle (IEL or IET handle) and the horizontal rail	 121894752 PC, UL 94 V-0, keying/coding block is clipped into the horizontal rail next to the guide rail; please order keying/coding pegs separately	 136815562 135276437 Keying/coding peg, PC, UL 94 V-0, RAL 7035The keying/coding pegs prevent plug-in units to be mounted in wrong slots. They are inserted in the chambers of the codable card guides as well as in the insertion/extractor handles IEL or IET (4 possible positions), resulting in 64 codings per card guide; when coding the upper and lower card guide, 4096 codings will result;
Assembly	Colour	PU 50 pieces	1 piece (SPQ 50) red, RAL 3000,	grey, RAL 7016 PU 100 pieces
above	red	–	64568-232	–
	grey	–	–	64568-233
	silver	24560-256	–	20817-501
below	red	–	64568-234	–
	grey	–	–	64568-235
	silver	24560-256	–	20817-501

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

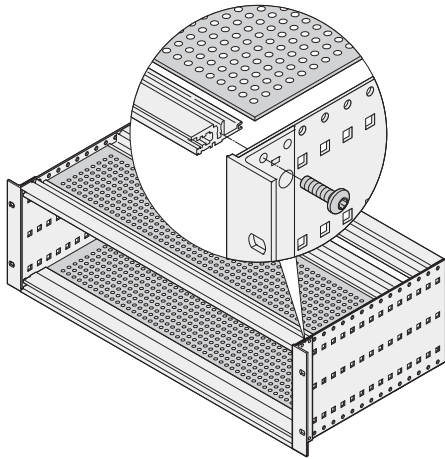
2) Part no. includes one packing unit (PU); delivery is exclusively made in PU

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
		 04503050 Spring steel, tin-plated, provides conductive contact between board and horizontal rail, on both the solder side and the component side	 00048868_0 PBT, UL 94 V-0, red, to fix the PCB in the subrack (also slot 1), can also be used without board handle, minimum distance 3 HP	 00013621_0 PBT, UL 94 V-0, red, insertion/extraction function with connection to board locking (also slot 1), mounting directly behind front panel (above and below), minimum distance 3 HP	 06108076 Polyester film, 31 x 4 mm, self-adhesive, white/matt (1 A4 sheet contains 438 pieces)
Assembly	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

Cover plates can be used for electromagnetic shielding (with EMC contact springs) or as mechanical protection (without EMC springs)

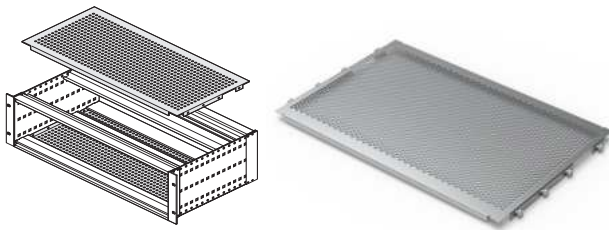


06108077

Cover plates for mechanical protection

- Cover plates are inserted into the grooves of the front and rear horizontal rails, type L "light"

see page 6.50



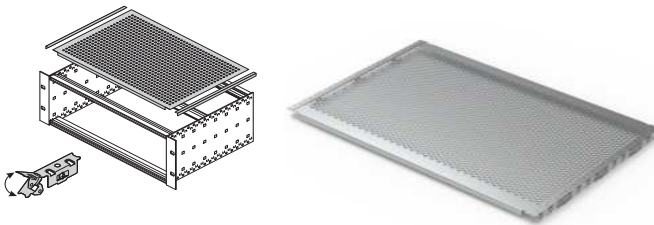
Cover plates with EMC shielding and mechanical protection

EMC cover plates for top and bottom

- Inserted in the groove of the front and rear horizontal rails; shielding with contact springs, lateral contact by bolting the bracket to the side panel
- Used when standard-depth PCBs (160, 220, 280, ...) are fitted

see page 6.51

06102084



Universal EMC cover plates for top and bottom

- Inserted in the groove of the front and rear horizontal rails; shielding with contact springs, lateral contact by bolting to the side panel with special contact springs

- Used when PCBs with special dimensions are fitted

see page 6.52

06105082

Subracks – EuropacPRO

ADVANCED EMC SHIELDING FOR TOP AND BOTTOM COVERS AND SIDE PANELS



Advanced EMC Plus top & bottom covers.

Dual Mesh design for maximum EMC shielding without restricting the air flow

- Inserted in the groove of the front and rear horizontal rails; shielding with contact springs, lateral contact by bolting the bracket to the side panel
- The additional mesh above the card cage further increase the EMC shielding
- Used when standard-depth PCBs (160, 220, 280, ...) are fitted

see page 6.53

NEW



Advanced EMC top & bottom covers, improving EMC shielding without restricting the air flow

- Inserted in the groove of the front and rear horizontal rails; shielding with contact springs, lateral contact by bolting the bracket to the side panel
- Used when standard-depth PCBs (160, 220, 280, ...) are fitted

see page 6.54

NEW



Advanced EMC shielding through side panel covers

- Assembled on the standard side panel to increase material thickness and covering cut-outs, to improve the lateral RF-shielding effectiveness of the subrack

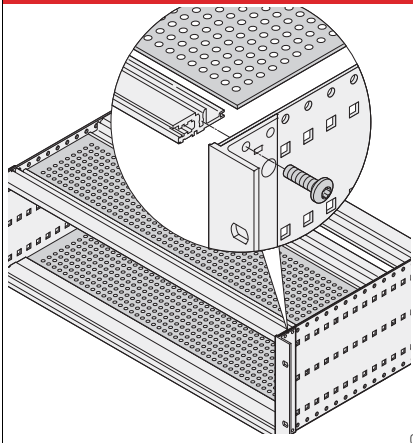
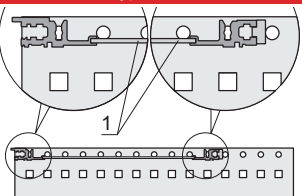
see page 6.55

NEW

Subracks – EuropacPRO

COVER PLATES FOR MECHANICAL PROTECTION (INSERTION INTO HORIZONTAL RAIL TYPE L)

ORDER INFORMATION

			Cover plates for insertion into horizontal rail type L
			 Perforated Al plate, 1.2 mm, hole diameter 3.8 mm, Al, untreated, perforation degree 60 %; for insertion into the groove of the light horizontal rails (type L)
Width HP	Depth mm	Application	PU 1 pair
42	175	160 mm board depth	24561-031
63	175	160 mm board depth	24561-041
84	175	160 mm board depth	24561-051
84	235	220 mm board depth	24561-052

NOTE

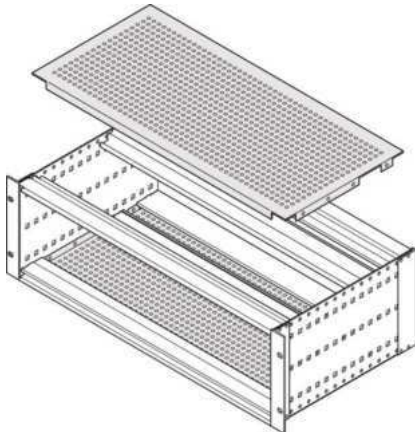
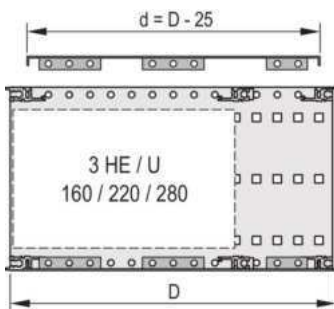
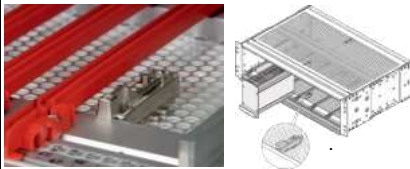
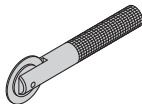
- Other dimensions on request

Subracks – EuropacPRO

EMC COVER PLATES AND MECHANICAL PROTECTION

- Cover plate for bolting to side panel
- Used when standard-depth PCBs (160, 220, 280, ...) are fitted

ORDER INFORMATION

			Cover plate for bolting to side panel	Stainless steel EMC gasket, between cover plate and horizontal rail	
			 Al, 1.0 mm, hole diameter 4.0 mm, passivated, perforation degree 58 %, incl. fixing screws; for shielding 4 stainless steel EMC gaskets are required per subrack	 stainless steel EMC gasket, clips into the horizontal rail and forms the contact with the cover plate; suitable for all horizontal rails	
06102084			06102082		06106052
Width HP	Depth mm	Application	PU 1 pair	PU 10 pieces	PU 100 pieces
42	175	160 mm board depth	24560-064	24560-241	–
42	235	160, 220 mm board depth	24560-065		
42	275	160, 220 mm board depth CompactPCI (275 mm)	24560-061		
42	277.75	160, 220 mm board depth VME64x (277.75 mm)	24579-090		
42	295	160, 220, 280 mm board depth	24560-066		
63	175	160 mm board depth	24560-071	24560-243	–
63	235	160, 220 mm board depth	24560-072		
63	275	160, 220 mm board depth CompactPCI (275 mm)	24560-062		
63	295	160, 220, 280 mm board depth	24560-073		
84	175	160 mm board depth	24560-078	24560-245	24560-246
84	235	160, 220 mm board depth	24560-079		
84	275	160, 220 mm board depth CompactPCI (275 mm)	24560-063		
84	277.75	160, 220 mm board depth VME64x (277.75 mm)	24579-092		
84	295	160, 220, 280 mm board depth	24560-080		
84	355	160, 220, 280 mm board depth	24560-081		
84	415	160, 220, 280 mm board depth	24560-082		
84	475	160, 220, 280 mm board depth	24560-083		
Cover Plate Fixing Kit Cover plate latch, additional securing for cover plate, PU 4 pieces. Can be combined with horizontal rail type H and R 			24566-007		
Assembly tool, for EMC gasket, stainless steel (horizontal rails), 1 piece 			–	24560-271	

NOTE

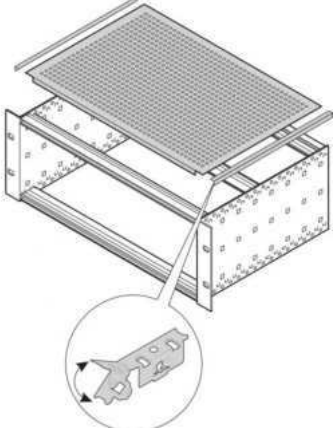
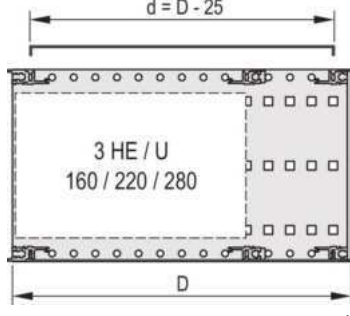
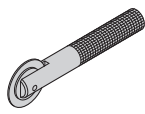
- Cover plates without perforation available on request

Subracks – EuropacPRO

UNIVERSAL EMC COVER PLATES AND MECHANICAL PROTECTION

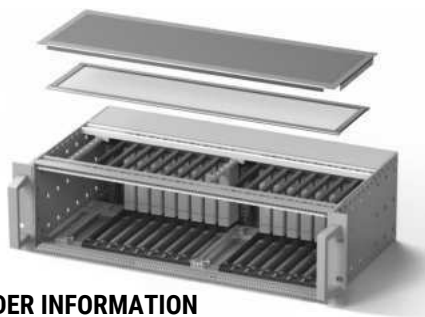
- Used when PCBs with special dimensions are fitted

ORDER INFORMATION

			Universal cover plate	Stainless steel EMC gasket, between cover plate and horizontal rail	
 06105082			 Al, 1.0 mm, hole diameter 4.0 mm,passivated, perforation degree 58 %, incl. lateral EMC sealing, incl. fixing screws. Torque moment for fastening screws = 0.9 Nm 06108079	 06106052 Stainless steel EMC gasket, clips into the horizontal rail and forms the contact with the cover plate; suitable for all types of horizontal rails	
Width HP	Depth mm	Application	1 pair	PU 10 pieces	PU 100 pieces
42	175	160 mm board depth	24560-031	24560-241	–
42	235	160, 220 mm board depth	24560-032		
42	295	160, 220, 280 mm board depth	24560-033		
63	175	160 mm board depth	24560-041	24560-243	–
63	235	160, 220 mm board depth	24560-042		
63	295	160, 220, 280 mm board depth	24560-043		
84	175	160 mm board depth	24560-051	24560-245	24560-246
84	235	160, 220 mm board depth	24560-052		
84	295	160, 220, 280 mm board depth	24560-053		
84	355	160, 220, 280 mm board depth	24560-054		
84	415	160, 220, 280 mm board depth	24560-055		
84	475	160, 220, 280 mm board depth	24560-056		
Cover Plate Fixing Kit Cover plate latch, additional securing for cover plate, PU 4 pieces. Can be combined with horizontal rail type H and R 			24566-007		
Assembly tool, for EMC gasket, stainless steel (horizontal rails), 1 piece 			–	24560-271	

Subracks – EuropacPRO

ADVANCED EMC SHIELDING FOR TOP AND BOTTOM COVERS AND SIDE PANELS



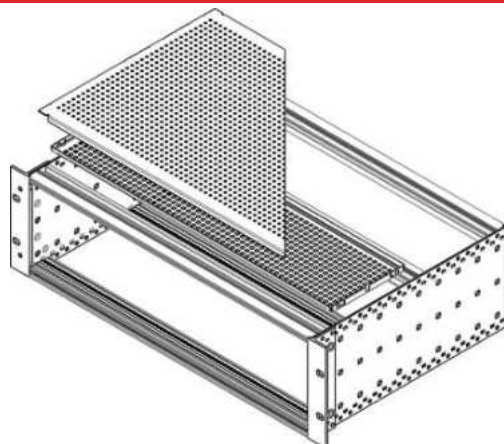
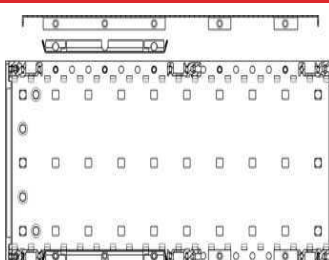
NEW

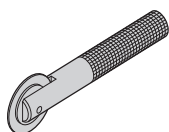
Advanced EMC Plus top & bottom covers.

Dual mesh design **for maximum EMC shielding without restricting the air flow**

- Inserted in the groove of the front and rear horizontal rails; shielding with contact springs, lateral contact by bolting the bracket to the side panel
- The additional mesh above the card cage further increase the EMC shielding
- Used when standard-depth PCBs (160, 220, 280, ...) are fitted

ORDER INFORMATION

			Cover plate, additional mesh, perforation Ø2.3mm, for bolting to side panel	Stainless steel EMC gasket, between cover plate and horizontal rail	
					
			Al, 1.0 mm, hole diameter 2.3 mm, passivated, perforation degree 50 %, incl. fixing screws; for shielding 4 stainless steel EMC gaskets are required per subrack	stainless steel EMC gasket, clips into the horizontal rail and forms the contact with the cover plate; suitable for all horizontal rails	
Width HP	Depth mm	Application	PU 1 pair	PU 10 pieces	PU 100 pieces
84	175	160 mm, PCB Board Depth	24563-770	24560-245	24560-246
84	235	160 mm, PCB Board Depth	24563-771		
84	275	160 mm, PCB Board Depth CompactPCI (275 mm)	24563-772		
84	277.75	160 mm, PCB Board Depth VME64x (277.75 mm)	24563-773		
84	295	160 mm, PCB Board Depth	24563-774		
84	355	160 mm, PCB Board Depth	24563-775		
84	415	160 mm, PCB Board Depth	24563-776		
84	475	160 mm, PCB Board Depth	24563-777		
84	235	220 mm, PCB Board Depth	24563-780		
84	295	220 mm, PCB Board Depth	24563-781		
84	355	220 mm, PCB Board Depth	24563-782		
84	415	220 mm, PCB Board Depth	24563-783		
84	475	220 mm, PCB Board Depth	24563-784		
84	295	280 mm, PCB Board Depth	24563-790		
84	355	280 mm, PCB Board Depth	24563-791		
84	415	280 mm, PCB Board Depth	24563-792		
84	475	280 mm, PCB Board Depth	24563-793		
Assembly tool, for EMC gasket, stainless steel (horizontal rails), 1 piece			—	24560-271	



NOTE

- Cover plates in 42 and 63HP on request
- Cover plates without perforation available on request
- Cover plates can not be combined with horizontal rails type R

Subracks – EuropacPRO

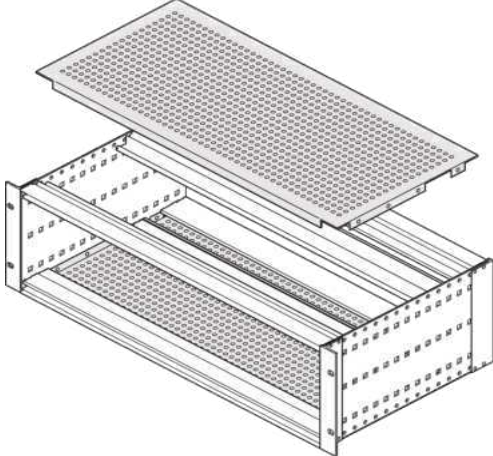
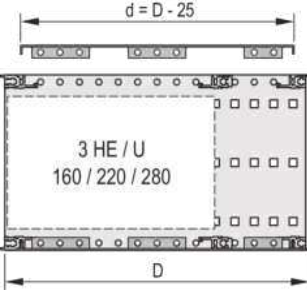
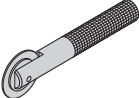
ADVANCED EMC SHIELDING FOR TOP AND BOTTOM COVERS

Advanced EMC top & bottom covers, improving EMC shielding without restricting the air flow

- Covers with EMC and airflow optimized perforation with diameter Ø 2.3mm and perforation degree of 50 %
- Cover plate for bolting to side
- For standard PCBs depths (160, 220, 280, ...)

NEW

ORDER INFORMATION

			Cover plate, perforation Ø2.3mm, for bolting to side panel	Stainless steel EMC gasket, between cover plate and horizontal rail	
			 Al, 1.0 mm, hole diameter 2.3 mm, passivated, perforation degree 50 %, incl. fixing screws; for shielding 4 stainless steel EMC gaskets are required per subrack	 stainless steel EMC gasket, clips into the horizontal rail and forms the contact with the cover plate; suitable for all horizontal rails	
Width HP	Depth mm	Application	PU 1 pair	PU 10 pieces	PU 100 pieces
36	175	160 mm board depth	24563-555	24560-247	–
36	235	160, 220 mm board depth	24563-556		
42	175	160 mm board depth	24563-560	24560-241	–
42	235	160, 220 mm board depth	24563-561		
42	275	160, 220 mm board depth CompactPCI (275 mm)	24563-562		
42	277.75	160, 220 mm board depth VME64x (277.75 mm)	24563-563		
42	295	160, 220, 280 mm board depth	24563-564	24560-243	–
63	175	160 mm board depth	24563-660		
63	235	160, 220 mm board depth	24563-661		
63	275	160, 220 mm board depth CompactPCI (275 mm)	24563-662		
63	295	160, 220, 280 mm board depth	24563-663	24560-245	24560-246
84	175	160 mm board depth	24563-760		
84	235	160, 220 mm board depth	24563-761		
84	275	160, 220 mm board depth CompactPCI (275 mm)	24563-762		
84	277.75	160, 220 mm board depth VME64x (277.75 mm)	24563-763		
84	295	160, 220, 280 mm board depth	24563-764		
84	355	160, 220, 280 mm board depth	24563-765		
84	415	160, 220, 280 mm board depth	24563-766		
84	475	160, 220, 280 mm board depth	24563-767	24560-271	
Assembly tool, for EMC gasket, stainless steel (horizontal rails), 1 piece 			–		

NOTE

- Cover plates without perforation available on request
- Cover plates can not be combined with horizontal rails type R

Subracks – EuropacPRO

ADVANCED EMC SHIELDING FOR SIDE PANELS

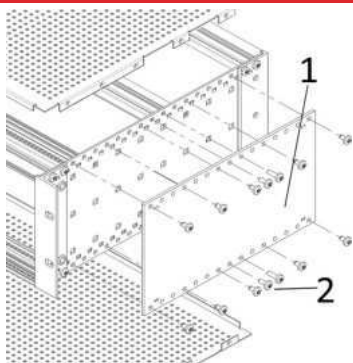
NEW



- Side panel covers for increased lateral RF shielding
- Assembled on the outside of the standard side panel of the subrack.
- Overall width is still in accordance to IEC 60297-3-100 and IEEE 1101.1
- Assembly material included

ORDER INFORMATION STANDARD

EMC side panel cover,
(1 kit à 2 pcs, incl. assembly material)

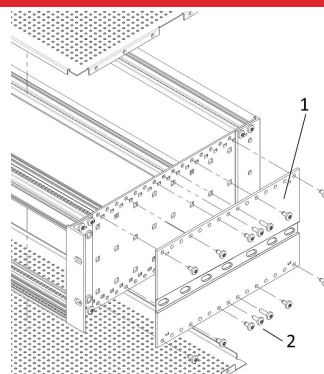


EMC side cover panels (1) ,
Al, 3 mm, passivated plus
assembly kit (2)

Height U	Depth mm	1 kit (2pcs)
3	175	24563-255
3	235	24563-256
3	275	24563-257
3	277.75	24563-258
3	295	24563-259
3	355	24563-260
3	415	24563-261
3	475	24563-262
4	175	24563-265
4	235	24563-266
4	295	24563-267
4	355	24563-268
4	415	24563-269
4	475	24563-270
6	175	24563-275
6	235	24563-276
6	275	24563-277
6	277.75	24563-278
6	295	24563-279
6	355	24563-280
6	415	24563-281
6	475	24563-282

ORDER INFORMATION FOR TELESCOPIC SLIDES

EMC side panel cover with groove for
telescopic slides C-profile
page 6.71
(1 kit à 2 pcs, incl. assembly material)



EMC side cover panels (1) ,
Al, 3 mm, passivated plus
assembly kit (2)

Height U	Depth mm	1 kit (2pcs)
3	175	24563-355
3	235	24563-356
3	275	-
3	277.75	-
3	295	24563-359
3	355	24563-360
3	415	24563-361
3	475	24563-362
4	175	-
4	235	-
4	295	-
4	355	-
4	415	-
4	475	-
6	175	24563-375
6	235	24563-376
6	275	-
6	277.75	-
6	295	24563-379
6	355	24563-380
6	415	24563-381
6	475	24563-382

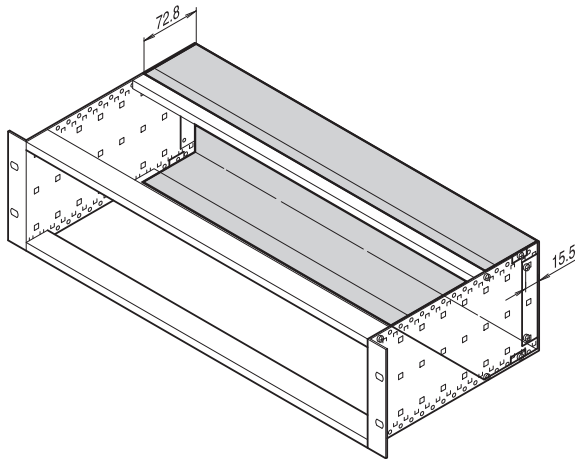
Remark

Telescopic slides C-profile page 6.71

Subracks – EuropacPRO

COVER/SHIELDING TO FRONT AND REAR

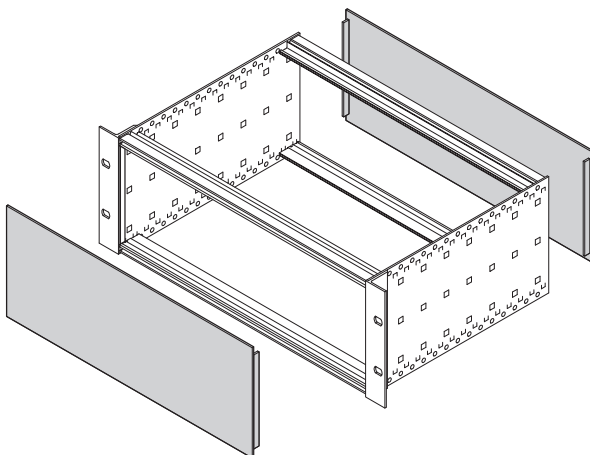
- The front and rear sides of the subrack can be shielded by a hinged front panel or by a fixed front panel and 19" brackets
- The rear can be shielded with a front panel and a corner profile



BZA45814

Rear hood

see page 6.57



06112089

Front panel for front and rear

see page 6.58 to 6.60

Front panel, hinged/pivoted

see page 6.61



135842093



135842160

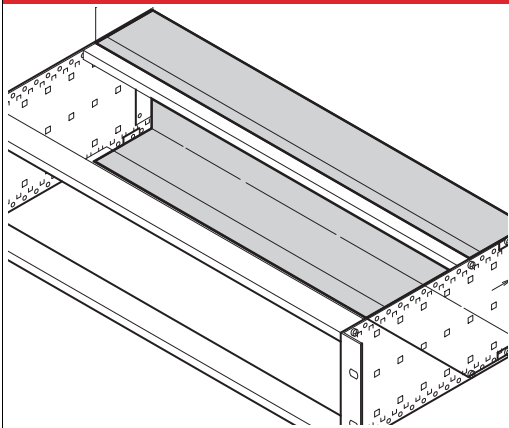
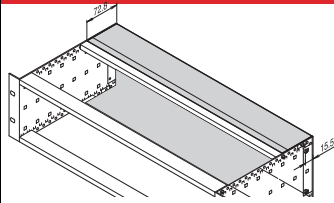


135842107

Subracks – EuropacPRO

REAR HOOD FOR 3 U AND 6 U SUBRACKS (FOR STAINLESS STEEL EMC GASKET)

ORDER INFORMATION

		Rear hood	Stainless steel EMC gasket, between cover plate and horizontal rail	
		 Al, 1 mm, clear passivated; 60 mm additional side panel depth required (board depth + 60 mm); for shielding please order EMC gasket for horizontal rail separately; cannot be used simultaneously with rear corner profile	 stainless steel EMC gasket, clips into the horizontal rail and forms the contact with the cover plate; suitable for all horizontal rails 	
Height U	Width HP	1 piece	PU 10 pieces	PU 100 pieces
3	42	34561-750	24560-241	–
3	84	34561-752	24560-245	24560-246
6	63	34561-763	24560-243	–
6	84	34561-764	24560-245	24560-246
Torx panhead screw, M4 x 6, St, zinc-plated, PU 100 pieces		24560-135	–	
Assembly tool, for EMC gasket, stainless steel (horizontal rails), 1 piece		–	24560-271	

NOTE

- Other dimensions of rear hood available on request

Subracks – EuropacPRO

FRONT/REAR PANELS, UNSHIELDED

ORDER INFORMATION

			Front panel					
			pre-anodised, cut edges plain		anodised		Front anodised, rear iridescent green chromated	
 04292001			Al, 2.5 mm		Al, 2.5 mm		Al, 2.5 mm	
Height U	Height mm	Width HP	1 piece	1 piece (SPQ 5) ¹⁾	1 piece	1 piece (SPQ 5) ¹⁾	1 piece	1 piece (SPQ 5) ¹⁾
1	44.45	28	–	–	–	–	20850-423	–
1	44.45	42	–	–	–	–	20850-424	–
1	44.45	63	–	–	–	–	20850-425	–
1	44.45	84	–	–	–	–	20850-426	–
2	84.0	84	30818-271	–	30807-416	–	30847-461	–
3	128.4	2	–	30810-433	–	30810-432	–	30847-470
3	128.4	3	–	30818-272	–	30807-508	–	30847-471
3	128.4	4	–	30818-273	–	30807-481	–	30838-043
3	128.4	5	–	30818-274	–	30807-510	–	30838-044
3	128.4	6	–	30818-275	–	30807-482	–	30838-045
3	128.4	7	–	30818-276	–	30807-509	–	30838-046
3	128.4	8	–	30818-277	–	30807-484	–	30838-047
3	128.4	10	–	30818-279	–	30807-483	–	30838-049
3	128.4	12	–	30818-281	–	30807-485	–	30838-051
3	128.4	14	–	30818-282	–	30807-501	–	30838-053
3	128.4	21	–	30818-289	–	30807-487	–	30838-060
3	128.4	28	–	30818-296	–	30807-496	–	30838-067
3	128.4	42	30818-310	–	30807-494	–	30838-081	–
3	128.4	63	30818-331	–	30808-067	–	30838-102	–
3	128.4	84	30818-352	–	30807-506	–	30838-123	–
4	172.9	42	–	–	–	–	30847-463	–
4	172.9	63	–	–	–	–	30847-464	–
4	172.9	84	30818-434	–	30807-596	–	30847-465	–
6	261.8	2	–	30818-747	–	30818-741	–	30847-472
6	261.8	4	–	30818-518	–	–	–	30838-124
6	261.8	5	–	–	–	–	–	30838-125
6	261.8	6	–	–	–	–	–	30838-126
6	261.8	7	–	–	–	–	–	30838-127
6	261.8	8	–	30818-522	–	–	–	30838-128
6	261.8	10	–	30818-524	–	30807-753	–	30838-130
6	261.8	12	–	30818-526	–	–	–	30838-132
6	261.8	14	–	30818-528	–	30807-758	–	30838-134
6	261.8	16	–	30818-530	–	–	–	30838-136
6	261.8	21	–	30818-535	–	30807-757	–	30838-141
6	261.8	28	–	30818-542	–	30807-766	–	30838-148
6	261.8	42	30818-556	–	30807-764	–	30838-162	–
6	261.8	63	30818-577	–	30807-771	–	30838-183	–
6	261.8	84	30818-598	–	30807-776	–	30838-204	–
9	395.1	4	–	–	–	–	–	30847-476
9	395.1	8	–	–	–	–	–	30847-480
9	395.1	10	–	–	–	–	–	30847-482
9	395.1	12	–	–	–	–	–	30847-484
9	395.1	84	–	–	–	–	30847-556	–

•Front panel assembly kits, sleeves, collar screws, quick-release fasteners see page 6.73

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

Subracks – EuropacPRO

FRONT/REAR PANELS SHIELDABLE WITH STAINLESS STEEL EMC GASKET

ORDER INFORMATION

			Front panel			
			Front panel for shielding with EMC gasket (stainless steel)		Stainless steel EMC gasket	
 04292001			Al, 2.5 mm, front anodized, rear iridescent green chromated, 2 alignment pins pressed-in, St, stainless		inserted laterally into the grooves of the front panel, suited for temperatures above 70 °C	
Height U	Height mm	Width HP	1 piece	1 piece (SPQ 5) ¹⁾	PU 10 pieces	PU 100 pieces
2	84	84	30846-588	–	21101-775	21101-776
3	128.4	2	–	30846-864	21101-705	21101-706
3	128.4	3	–	20846-425		
3	128.4	4	–	20846-426		
3	128.4	5	–	20846-427		
3	128.4	6	–	20846-428		
3	128.4	7	–	20846-429		
3	128.4	8	–	20846-430		
3	128.4	10	–	20846-431		
3	128.4	12	–	20846-432		
3	128.4	14	–	20846-433		
3	128.4	21	–	20846-434		
3	128.4	28	–	20846-436		
3	128.4	42	20846-437	–		
3	128.4	63	20846-438	–		
3	128.4	84	30846-676	–		
4	172.9	42	30846-681	–	21101-713	21101-714
4	172.9	63	30846-682	–		
4	172.9	84	30846-683	–		
6	261.8	2	–	30846-865	21101-707	21101-708
6	261.8	4	–	20846-443		
6	261.8	5	–	20846-444		
6	261.8	6	–	20846-445		
6	261.8	7	–	20846-446		
6	261.8	8	–	20846-447		
6	261.8	10	–	20846-448		
6	261.8	12	–	20846-449		
6	261.8	14	–	20846-450		
6	261.8	16	–	20846-456		
6	261.8	21	–	20846-451		
6	261.8	28	–	20846-452		
6	261.8	42	20846-453	–		
6	261.8	63	20846-454	–		
6	261.8	84	30846-771	–		
9	395.1	84	30846-859	–	21101-709	21101-710
Assembly tool, for stainless steel EMC gasket					24560-270	

•Front panel assembly kits, sleeves, collar screws, quick-release fasteners see page 6.73

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

Subracks – EuropacPRO

FRONT/REAR PANELS SHIELDABLE WITH TEXTILE EMC GASKET

ORDER INFORMATION

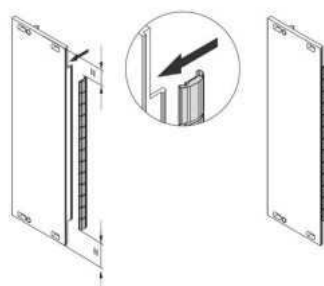
			Front panel			
			Front panel for shielding with EMC sealing (textile)		Textile EMC gasket	
			Al extrusion, 2.5 mm, front anodised, rear conductive; 3, 6 U with alignment pin (not 84 HP)		textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0	
04292001						
Height U	Height mm	Width HP	1 piece	1 piece (SPQ 5) ¹⁾	PU 10 pieces	PU 100 pieces
2	84	84	20848-262	–	–	21101-856
3	128.4	2	–	30849-001	21101-853	21101-854
3	128.4	3	–	30849-004		
3	128.4	4	–	30848-354		
3	128.4	5	–	30848-378		
3	128.4	6	–	30848-380		
3	128.4	7	–	30848-382		
3	128.4	8	–	30848-356		
3	128.4	10	–	30848-386		
3	128.4	12	–	30848-358		
3	128.4	14	–	20848-013		
3	128.4	21	–	20848-020		
3	128.4	28	–	20848-027		
3	128.4	42	20848-047	–		
3	128.4	63	20848-068	–		
3	128.4	84	20848-097	–		
4	172.9	28	–	20848-268	21101-858	–
4	172.9	42	20848-269	–		
4	172.9	63	20848-270	–		
4	172.9	84	20848-271	–		
6	261.8	2	–	30849-002	21101-855	21101-856
6	261.8	4	–	30848-355		
6	261.8	5	–	30848-379		
6	261.8	6	–	30848-381		
6	261.8	7	–	30848-383		
6	261.8	8	–	30848-357		
6	261.8	10	–	30848-387		
6	261.8	12	–	30848-359		
6	261.8	14	–	20848-106		
6	261.8	16	–	20848-108		
6	261.8	21	–	20848-113		
6	261.8	28	–	20848-120		
6	261.8	42	20848-139	–		
6	261.8	63	20848-160	–		
6	261.8	84	20848-189	–		
9	395.1	84	20848-280	–	21101-859	21101-904

•Front panel assembly kits, sleeves, collar screws, quick-release fasteners see page 6.73

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

EMC gasket stainless steel, for U-shaped front panel

- 1 Kit, 3U, 10pcs **21102-105**
- 1 Kit, 4U, 10pcs **21102-113**
- 1 Kit, 6U, 10pcs **21102-107**
- 1 Kit, 9U, 10pcs **21102-109**



Subracks – EuropacPRO

FRONT PANELS, HINGED AND PIVOTED

ORDER INFORMATION

		Front panel, bottom-hinged		Front panel, pivoted
		shielded	unshielded	
		 135842160 Al, 2.5 mm, front anodised, rear conductive; textile EMC gasket hinge, Zn die-cast, nickel-plated; 2 / 3 x sleeve, PA; 2 / 3 x knurled screws or collar screws M2.5x12,3, St, nickel plated	 135842093 Al, 2.5 mm, anodised, cut edges plain; hinge, Zn die-cast, nickel-plated; 2 / 3 x sleeve, PA; 2 / 3 knurled screws or collar screws M2.5 x 12.3, St, nickel-plated	 135842107 Al, 2.5 mm, front anodised, rear conductive; hinge, die-cast zinc, chrome-plated; textile EMC gasket; 2 / 3 sleeve, PA; 2 / 3 knurled screws or collar screws M2.5 x 12.3, St, nickel-plated
Height U	Width HP	1 piece	1 piece	1 piece
3	28	20848-608	20838-280	–
3	42	20848-599	20838-271	–
3	63	20848-600	20838-272	–
3	84	20848-601	20838-273	20848-611
4	42	20848-605	20838-277	–
4	63	20848-606	20838-278	–
4	84	20848-607	20838-279	–
6	28	20848-696	–	–
6	42	20848-602	20838-274	–
6	63	20848-603	20838-275	–
6	84	20848-604	20838-276	20848-617

NOTE

- Front panel can be removed in opened position (> 135°)

Subracks – EuropacPRO

SHIELDING IS REQUIRED BETWEEN THE FOLLOWING COMPONENTS OF A SUBRACK

- Front panel/rear panel and horizontal rail, see page 6.63
- Front panel and 19" bracket/corner profile or in case of depth-offset installation, see page 6.63
- Cover plate/horizontal rail, see page 6.51
- Cover plate/side panel, see from page 6.51
- Horizontal rail/horizontal rail in combined mounting (3 U + 3 U and 6 U), see page 6.67
- Shielding for backplane and side panel see page 6.65

EMC shielding concepts

- Shielding concepts in accordance with IEEE and IEC
- Shielding effectiveness has been determined in various series of measurements in accordance with IEC 61587-3 and can be found online together with the relevant standard product
- The combined use of stainless steel and textile EMC gaskets is functionally possible without any problems

EMC shielding concept with EMC textile gaskets -1-

- The seal is affixed to the left-hand side of the subrack (viewed from front) or to the U-shaped front panel profile, respectively
- An EMC gasket with CuNi coating assures a long-term high level of shielding, typically 40 dB at 2 GHz
- Temperature-resistant adhesive layer is protected by a removable film
- Rear shielding is obtained using front panels or a rear hood
- Temperature range -40° C to +70° C or -40° C to +85° C

EMC shielding concept with EMC stainless gaskets -2-

- The seal is mounted to the left-hand side of the subrack (viewed from front) or to the U-shaped front panel profile, respectively
- An EMC gasket stainless steel assures a long-term high level of shielding, typically 40 dB at 2 GHz
- Rear shielding is obtained using front panels or a rear hood
- Temperature range -200° C to +160° C

Note: rear hood and corner profile cannot be used simultaneously

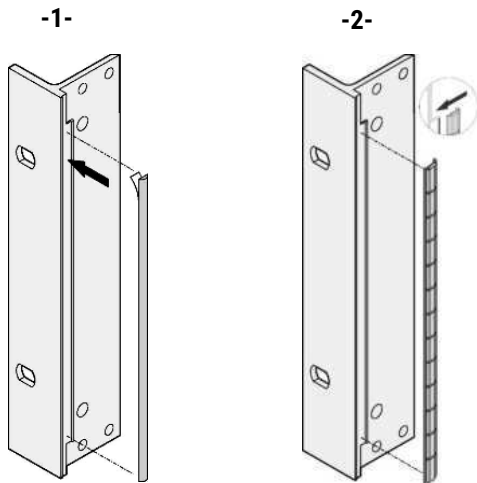
EMC shielding concept with stainless steel EMC gaskets and flat front panels)

- Symmetrical arrangement of EMC gaskets on the left and right hand sides of subrack and front panel
- Shielding: typically 40 dB at 2 GHz
- Can be used for temperatures above -200 up to +160° C

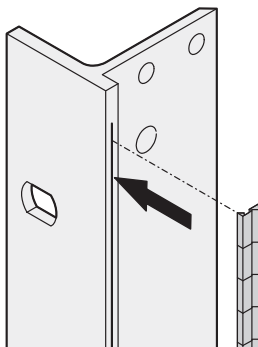
Note: rear hood and corner profile cannot be used simultaneously

Front panel shielding concept

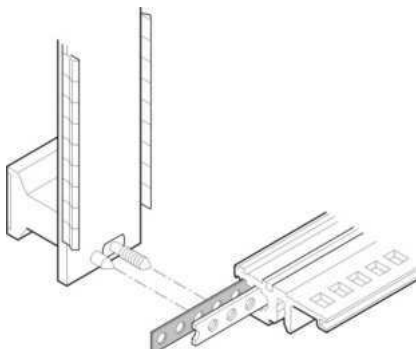
- Front panels are available for textile or stainless steel EMC gasket options
- Alignment pins are pressed-in in the front panel to position the gaskets securely and to compress them evenly
- An alignment pin positions the perforated strip in the horizontal rail
- Alignment pin and perforated strip provide an optimal positioning of the shielded assemblies; the front panels are not forced sideways by the shielding elements (SCHROFF patent)



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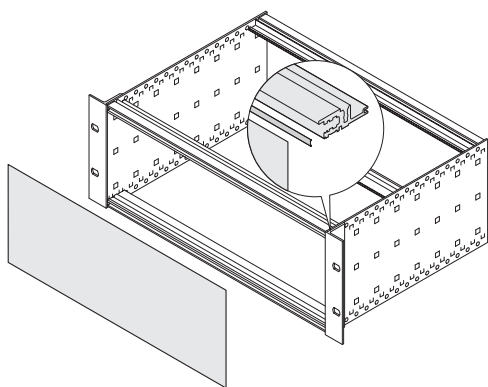
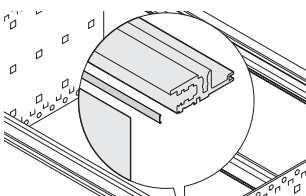


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Subracks – EuropacPRO

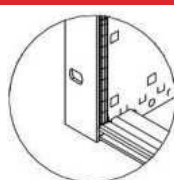
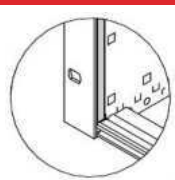
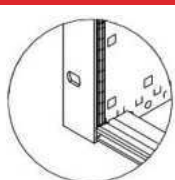
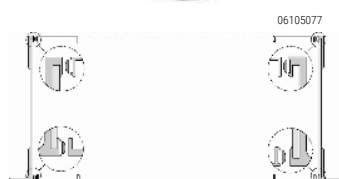
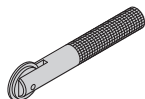
EMC GASKETS BETWEEN FRONT/REAR PANEL AND HORIZONTAL RAIL

ORDER INFORMATION

		Stainless steel EMC gasket between front panel/rear panel and horizontal rail	
			
stainless steel; for front and rear horizontal rails (type VT)		06102053	
Width HP	Depth mm	PU 10 pieces	PU 100 pieces
28	131.8	24560-229	–
42	202.9	24560-231	–
63	304.5	24560-233	–
84	416.6	24560-235	24560-236
Assembly tool, for stainless steel EMC gasket		24560-270	

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

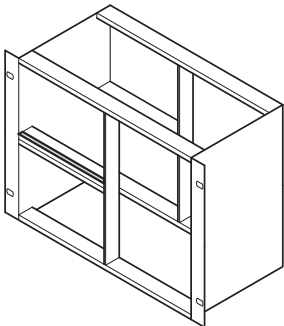
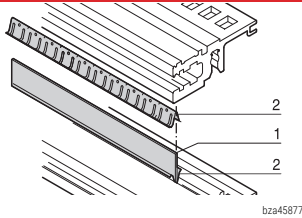
ORDER INFORMATION

		Stainless steel EMC gasket temperature range -200° C ... +160°C between front panel/rear panel and 19" bracket/corner profile		Textile EMC gasket temperature range -40° C ... +70°C between front panel/rear panel and 19" bracket/corner profile		Stainless steel EMC gasket temperature range -200° C ... +160°C between front panel/rear panel and 19" bracket/corner profile		
		  inserted laterally into the grooves of the front panel		  textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0		  Stainless steel gasket which can be assembled to the U-shaped front panels and the 19" brackets for textile gaskets		
Height U	Depth mm	PU 10 pieces	PU 100 pieces	PU 10 pieces	PU 100 pieces	PU 10 pieces	PU 100 pieces	
3	97.5	21101-705	21101-706	21101-853	21101-854	21102-105	21102-106	
4	142.5	21101-713	21101-714	21101-858	—	21102-113	—	
6	232.5	21101-707	21101-708	21101-855	21101-856	21102-107	21102-108	
9	365.0	21101-709	21101-710	21101-859	21101-904	21102-109	—	
Assembly tool, for stainless steel EMC gasket 		24560-270		Textile EMC gasket, temperature range -40° C ... +85°C				
				PU 10 pieces		PU 100 pieces		
				3 U	21102-853	21102-854		
				4 U	21102-858	—		
				6 U	21102-855	21102-856		
				9 U	21102-859	—		

Subracks – EuropacPRO

EMC GASKETS BETWEEN HORIZONTAL RAIL AND HORIZONTAL RAIL

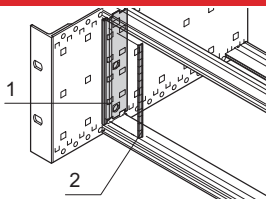
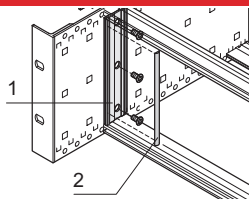
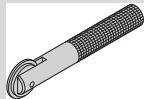
ORDER INFORMATION

		Stainless steel EMC gasket between horizontal rail and horizontal rail
		 Item 1: cover strip, Al, 1 mm, item 2: 2 x EMC seals (stainless steel); for shielding of 2 horizontal rails positioned directly one above the other if assembly area is divided vertically
Width HP	Depth mm	PU 1 kit
20	107.0	24562-520
28	147.0	24562-528
40	208.0	24562-540
42	218.0	24562-542
63	325.0	24562-563
84	431.0	24562-584

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

EMC GASKETS BETWEEN FRONT PANEL AND SIDE PANEL (DEPTH-OFFSET INSTALLATION)

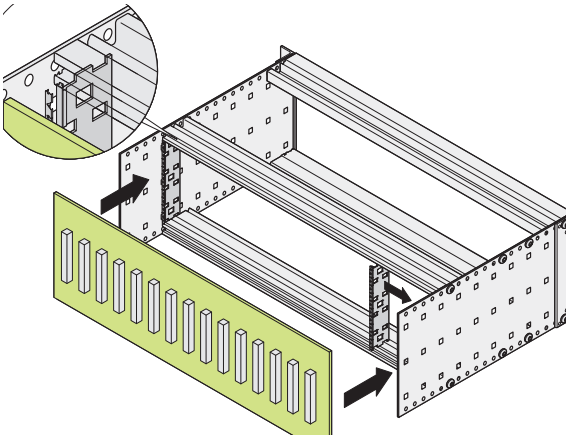
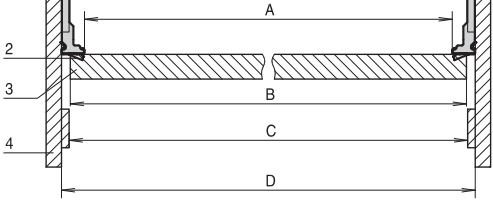
ORDER INFORMATION

		Stainless steel EMC gasket between front panel and side panel (depth-offset installation)	Textile EMC gasket between front panel and side panel (depth-offset installation)
		 Item 1: 2 x support profiles, Al extrusion; item 2: 2 x stainless steel EMC gasket; fixing material kit for vertical EMC shielding between depth-offset shielded front panels and side panel	 Item 1: 2 x support profiles, Al extrusion; item 2: 1 x EMC textile gasket; fixing material kit for vertical EMC shielding between depth-offset shielded front panels and side panel
Height U	Depth mm	PU 1 kit	PU 1 kit
3	97.5	24562-199	24560-180
4	142.5	24562-299	24560-280
6	187.5	24562-499	24560-480
Assembly tool, for stainless steel EMC gasket		24560-270	—

Subracks – EuropacPRO

EMC GASKETS BETWEEN BACKPLANE AND SIDE PANEL

ORDER INFORMATION

		Stainless steel EMC gasket between backplane and side panel (depth-offset installation)
		 2 x support profile, Al extrusion, 2 x EMC gasket (stainless steel) Fixing materials kit and user manual; for vertical EMC shielding between shielded backplane and side panel; dimensions (84 HP): A = 425.8 mm, B < 429.9 mm, C = 429.8 mm, D = 431.8 mm
Height of the Subrack in U	Lenght in mm	PU 1 kit
3	110.00	24561-199
6	243.35	24561-499

- With an appropriate design the backplane can be used as shielding rear panel; for that purpose a rear horizontal rail (type L-VT or H-VT) for depth-offset installation must be used to ensure the horizontal contact
- For vertical contact the support profile can be fixed to the europacPRO side panel (depth grid 30 mm)

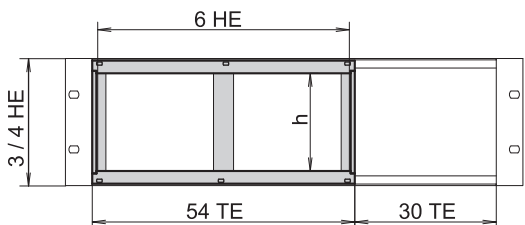
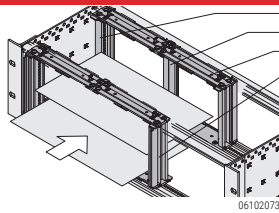
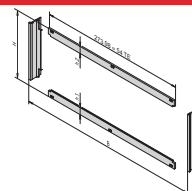
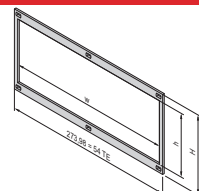
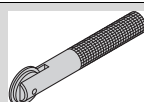
Subracks – EuropacPRO

SPECIAL INTERIOR MOUNTING PARTS

- Horizontal board mounting, see page 6.66
- Combined mounting: 3 U + 3 U and 6 U, see page 6.67
- Mounting plates, see page 6.68
- Central locking for PCBs, see page 6.69
- Divider plates, see page 6.69
- Air baffles, see page 6.70
- Telescopic slides, see page 6.71 to 6.72
- Fixing parts (bolts, nuts, assembly tools), see page 6.73

HORIZONTAL BOARD MOUNTING IN 3 OR 4 U SUBRACK

ORDER INFORMATION

				Horizontal board mounting in 3 or 4 U subrack		
				Board cage	Front frame for EMC shielding	Front frame, unshielded
 (1 TE = 1 HP, 1 HE = 1 U) bpa45914				 06102073 Struts, die-cast zinc; horizontal rails front and rear; threaded inserts, St, zinc-plated; fixing material kit; for horizontal mounting of double-height euroboards in 3 or 4 U high subracks/cases; 54 HP space required; please order front frame for EMC shielding separately	 bpa45913 2 horizontal covers, Al 2.5 mm, front anodised, rear iridescent green chromated; 2 vertical trims, Al extrusion, passivated; stainless steel EMC gasket; front frame provides the contact between subrack and the sub-assemblies	 bza43061 Al, 2.5 mm, clear anodised; front frame with cut-out, clear internal width w = 266.35 mm
Height U	Usable height h HP	Mounting variants		PU 1 kit	PU 1 kit	1 piece
3	20			24564-117	24564-109	34564-108
3	20			24564-118	24564-109	34564-109
4	28			24564-217	24564-209	34564-208
Assembly tool, for stainless steel EMC gasket 				–	24560-270	–

* For direct backplane mounting

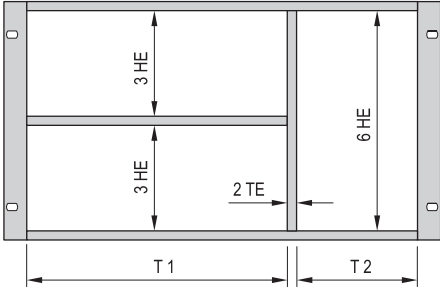
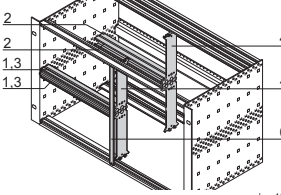
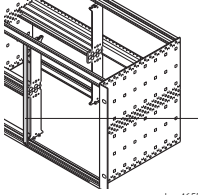
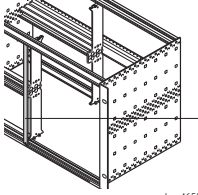
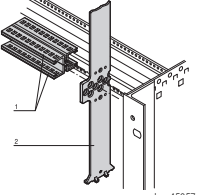
NOTE

- Please order front frame for EMC shielding separately

Subracks – EuropacPRO

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

ORDER INFORMATION

	Combined mounting: horizontal and vertical subdivision (incl. front panel for stainless steel EMC gasket)	Alternative front panels for combined mounting unshielded front panel, 6 U, 2 HP item 6	front panel for textile EMC gasket, 6 U, 2 HP item 6	Splitting extrusion for combined mounting item 2
	 Item 1: 2 front horizontal rails (H-KD), Al extrusion, anodised; item 2: 2 rear horizontal rails (AB), Al extrusion, anodised; item 3: threaded inserts, St, zinc-plated; item 4: Zn die-cast support members; item 6: front panel 2 HP, 6 U, with EMC stainless steel gasket; 84:0 without items 4, 5 - Note see below 2)	 Al, 2.5 mm, front anodised, rear iridescent green chromated	 Al, 2.5 mm, U-profile with notch, 6 U, 2 HP	 6 U, die-cast zinc; splitting extrusion is inserted in the grid holes of the horizontal rail; the splitting extrusion can be bolted
Width pitch T1:T2 HP	PU 1 kit	1 (SPQ 5)	1 piece (SPQ 5) ¹⁾	1 piece
20:62	24562-420			
40:42	24562-440			
42:40	24562-442	30847-472	30849-140	64560-010
63:19	24562-463			
84:0	24562-484			
Torx countersunk screw M4 x 14, zinc-plated, PU 100 pieces to fix splitting extrusion/horizontal rail	–	–	–	24560-145
Panhead screw M2.5 x 10, St, zinc-plated, PU 100 pieces to fix horizontal rail/splitting extrusion	–	–	–	24560-179
Pozidrive/slotted collar screw M2.5 x 12.3, St, nickel-plated, PU 100 pieces	–	21101-101	21101-101	–
Pozidrive/slotted collar screw M2.5, black, zinc-plated, PU 100 pieces	–	21101-102	21101-102	–
Washer 2.7 x 5 x 1, PA 6, PU 100 pieces	–	21101-121	21101-121	–
Textile gasket, core: foam, sleeve: textile cladding with CuNi coating, UL 94 V-0 PU 10 pieces	–	–	21101-855	–

2) The following guide rails cannot be used: type "accessory", type "accessory, strengthened" and type "for 4.4" PCB"

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

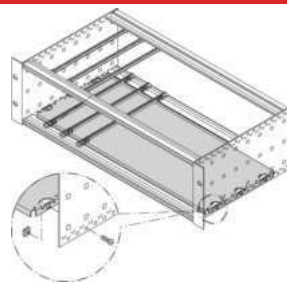
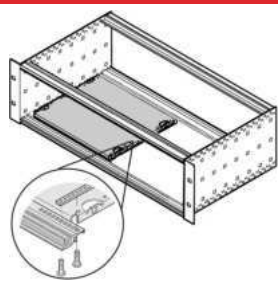
NOTE

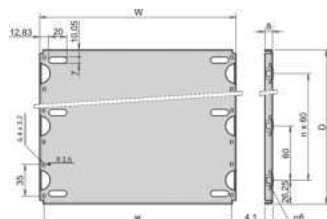
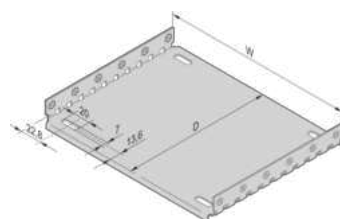
- Please order EMC gasketing kit for horizontal rails separately, see page 6.51
- Please order perforated strips for horizontal rails separately, see page 6.37
- Please order rear centre horizontal rail separately, see page 6.35

Subracks – EuropacPRO

MOUNTING PLATES

ORDER INFORMATION

				Mounting plate can be used in combination with cover plate	Mounting plate for the use without cover plate	
					for complete subrack width	for partial width of a subrack
Mounting plate for use without cover plate						
Mounting plate for use with cover plate						
				Al, 1.5 mm; mounting is only possible over the entire width between the side panels; width of mounting plate = W - 9.71 mm Torque moment for fastening screws = 1,5 Nm	Al, 1.5 mm; for mounting over complete width. Torque moment for fastening screws = 1,5 Nm	Al, 1.5 mm; for mounting over partial width,
Width W HP	W mm	Depth mm	Board length mm	1 piece	1 piece	1 piece
28	146.88	112.5	160	34563-001	34562-745	34562-745
28	146.88	172.5	220	34563-009	34562-749	34562-749
28	146.88	232.5	280	–	34562-753	34562-753
28	146.88	292.2	340	–	34562-757	34562-757
42	217.99	112.5	160	34563-002	34562-746	34562-746
42	217.99	172.5	220	34563-014	34562-750	34562-750
42	217.99	232.5	280	–	34562-754	34562-754
42	217.99	292.2	340	–	34562-758	34562-758
63	324.67	112.5	160	34563-003	34562-747	34562-747
63	324.67	172.5	220	34563-019	34562-751	34562-751
63	324.67	232.5	280	–	34562-755	34562-755
63	324.67	292.2	340	–	34562-759	34562-759
84	431.35	112.5	160	34563-004	34562-748	–
84	431.35	172.5	220	34563-024	34562-752	–
84	431.35	232.5	280	34563-026	34562-756	–
84	431.35	292.2	340	34563-028	34562-760	–
84	431.35	352.5	400	34563-042	34562-870	–
84	431.35	412.5	460	34563-044	34562-871	–
Assembly kit for mounting plate, PU 1 kit (Torx countersunk screw M4 x 5, St, zinc-plated, 16 pieces; screw M4 x 6, St, zinc-plated, 14 pieces; square nut M4, St, zinc-plated, 14 pieces, 1x User Manual				24560-184	24560-184	–
Assembly kit for partial mounting plate, PU 1 kit 2 x St, threaded inserts 13HP, 5,0 x 2,0 mm, zinc plated; M2,5mm, 6 x screw M2,5x6, (0,37Nm) 5 x square nut M4, 5 x screw M4x6 (1,5Nm) 1 x User manual				–	–	24560-127



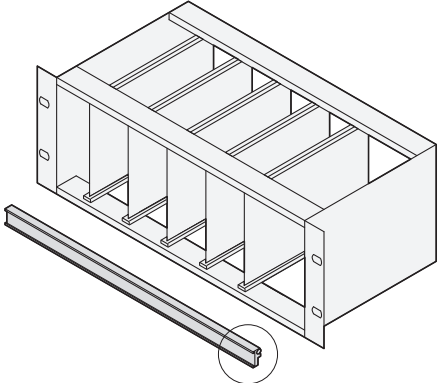
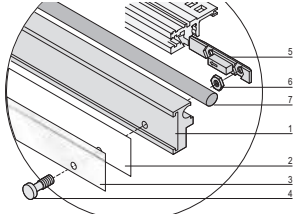
NOTE

- For installation and fixing of heavy components
- In addition to the mounting plate, (EMC) cover plates can also be fitted to the subrack
- The mounting plate is as wide as the subrack or system case and is fixed to the side panels
- A guide rail can be fitted on the first and last slot
- Guide rails type "4.4" and type "strengthened" cannot be used

Subracks – EuropacPRO

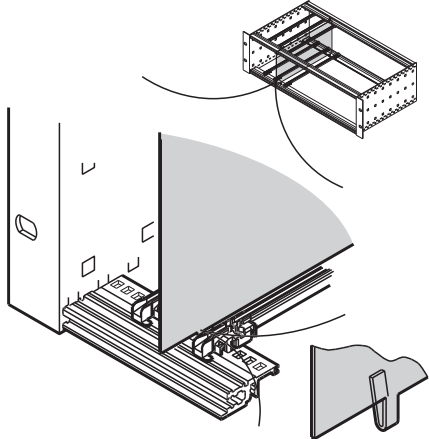
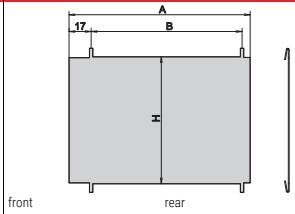
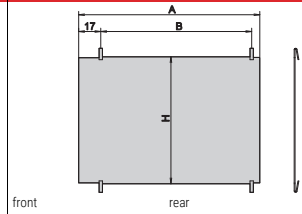
CENTRAL LOCKING

ORDER INFORMATION

		Central locking for PCBs without front panels
		 Item 1: central rail, Al, anodised; item 2: ID cardboard, white; item 3: transparent cover strip, plastic; item 4: 2 x knurled screw; item 5: 2 x slide nut; item 6: 2 x hexagon nut M2.5; item 7: rubber gasket; central locking allows joint locking of PCBs and serves as identification strip; can be fitted to front and rear horizontal rails, suitable for 84 HP width
Width HP	Length mm	1 piece
84	426.0	24560-167

DIVIDER PLATE

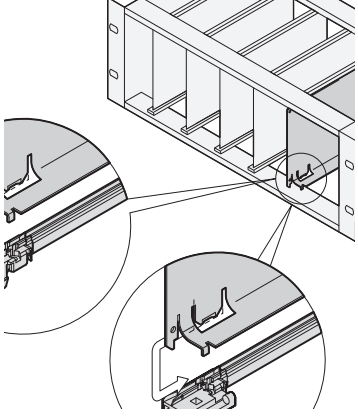
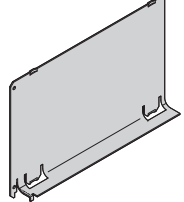
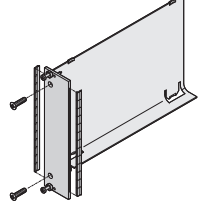
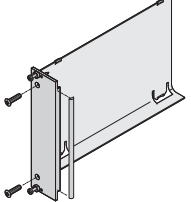
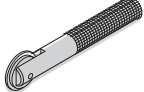
ORDER INFORMATION

					Divider plate
					Mounting position when stainless steel EMC gasket is used
					Mounting position when textile EMC gasket is used
					 front rear
					 front rear
					Stainless steel, 1 mm, is mounted by clipping onto horizontal rail, space requirement on component side 2 mm; mounting direction varies with shielding design (EMC stainless steel or textile gasket); retrofitting the divider plate in an already-assembled subrack/case will first require dismantling of the horizontal rails; where front panels are unshielded, both mounting directions are possible
Height U	Depth mm	A mm	B mm	H mm	PU 10 pieces
3	160	158.3	135.0	113.5	34562-761
3	220	218.3	195.0	113.5	34562-762
6	160	158.3	135.0	246.9	34562-763
6	220	218.3	195.0	246.9	34562-764

Subracks – EuropacPRO

AIR BAFFLES FOR SLOTS

ORDER INFORMATION

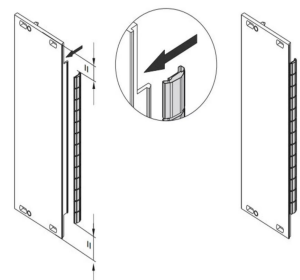
			Air baffle without front panel	Air baffle with front panel	
				Front panel with lateral groove for stainless steel EMC gasket	U front panel for textile EMC gasket
			 Al, 1 mm, incl. fixing material kit; prevents an air short circuit in unused slot positions; is pushed into the groove of the guide rail	 Air baffle, Al, 1 mm; front panel, Al, 2.5 mm, front anodised, rear conductive; stainless steel EMC gasket; fixing material kit prevents an air short circuit in unused slot positions; is pushed into the groove of the guide rail	 Air baffle, Al, 1 mm, front panel, Al extrusion, 2.5 mm, front anodised, rear conductive; textile EMC gasket; fixing material kit prevents an air short circuit in unused slot positions; is pushed into the groove of the guide rail
Depth mm	Width HP	Height U	1 piece	1 piece	1 piece
160	4	3	34562-823	20848-712	20848-728
160	4	6	34562-826	20848-720	20848-736
220	4	3	34562-824	20848-713	20848-729
220	4	6	34562-827	20848-721	20848-737
Assembly tool for stainless steel EMC gasket, 1 piece 			–	24560-270	–

NOTE

- Air baffle for 280 mm deep and for 80 mm rear I/O boards or other width (HP) available on request

EMC gasket stainless steel, for U-shaped front panel

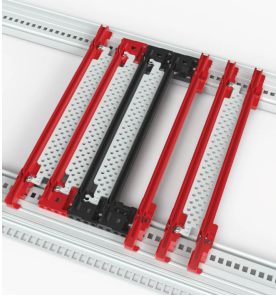
- 1 Kit, 3U, 10pcs **21102-105**
- 1 Kit, 6U, 10pcs **21102-107**



Subracks – EuropacPRO

AIR BENDER OR AIR INLET PLUG IN UNIT FOR SLOTS

ORDER INFORMATION

			Air Bender, 70P blockage 4HP	Air Inlet Plug-in Unit with dust filter for:	
				PIU with U-front panel for textile EMC gasket	PIU with U-front panel for stainless steel EMC gasket
			 AirBender card guide inserts enhance cooling efficiency in electronic systems by up to 85% per 4HP slot by balancing airflow in environments with mixed air impedances. Easy installation: Simply clip the AirBender into SCHROFF plastic card guides and optionally secure it with a screw. Reduction of noise development from the fans by maintaining them at an efficient operating point Material: Polycarbonate, grey Card guides: Please see page 6.40ff	 The Air Inlet plug-in unit boosts overall chassis and individual slot cooling performance by up to 200% by creating an extra air intake flow path from the perforated front plate to the bottom air plenum, utilizing unused system slots of all 19" based subracks. In addition to the extra air intake, it prevents air from moving through the slot and acts as a solid air blocker, ensuring no loss in optimization. Easy installation by simply inserting the Air Inlet into an unused slot.	
Depth mm	Width HP	Height U	10 pieces	1 piece	1 piece
160	4		24563-040		
160	4	3		24563-030	24563-032
160	8	3		24563-031	24563-033

NOTE

- AirInlet for 220 or 280 mm depth or other heights available on request

Subracks – EuropacPRO

SIMPLE TELESCOPIC SLIDE FOR ASSEMBLY OF SUBRACKS IN CABINETS

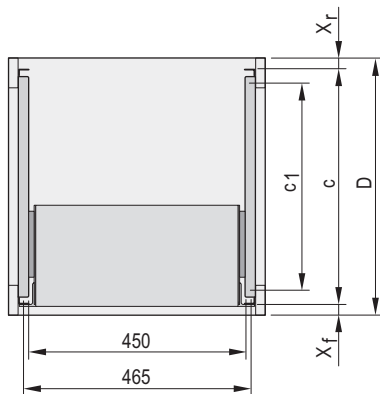


06101006

- For mounting 84 HP wide subracks in the 19" plane
- Loading capacity: 25 kg per pair
- The guiding profile is matched to the fixing dimension in the cabinet (it is bolted to the 19" profile of the cabinet); the adaptor rail is matched to the depth and fixing dimension on the subrack (it is inserted into the guiding profile like a telescopic slide)
- Safety note:
No protection against extraction, no stop at full extension

Order Information

Telescopic slides with guiding profile for fitting in cabinets



06108082

Description	Depth D mm	xf mm	xr mm	C mm	c1 mm	Part no.
VARISTAR	600	50	50	500	368,8	24562-464
VARISTAR	800	50	50	700	568,8	24562-466
VARISTAR	900	50	50	800	668,8	24562-467
VARISTAR	1000	50	50	900	768,8	24562-468
VARISTAR	1100	50	50	1000	868,8	24562-472
VARISTAR	1200	50	50	1100	968,8	24562-473
eurorack	600	60	60	480	397	24562-449
eurorack	800	60	60	680	597	24562-451
eurorack	900	60	60	780	697	24562-452
NOVASTAR	500	33	60	407	350	24562-460
NOVASTAR	600	33	60	507	450	24562-461
NOVASTAR	800	33	60	707	650	24562-474
Lab rack	250	0	0	250	162	24562-446

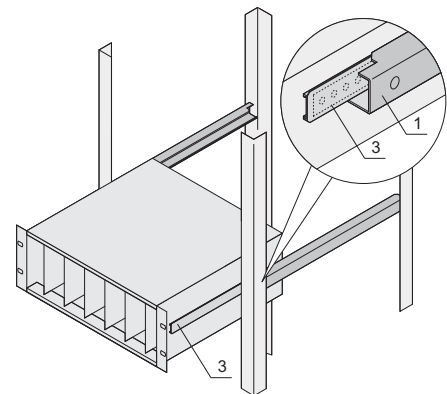
xf, xr: Distance of 19" plane to cabinet edge (front, rear)

c: Distance of 19" planes from each other,

c1: Fixing dimension of guiding profile on 19" panel/slide mounts

Order Information

Telescopic slides with adaptor rail for subracks



06108072

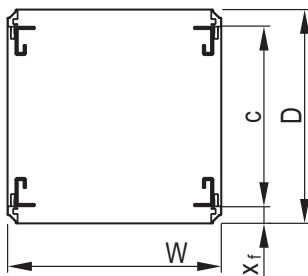
For subrack depth mm	Part no.
175	24562-453
235	24562-454
295	24562-455
355	24562-456
415	24562-457
475	24562-458

Subracks – EuropacPRO

TELESCOPIC SLIDE, NARROW, FOR SUBRACK

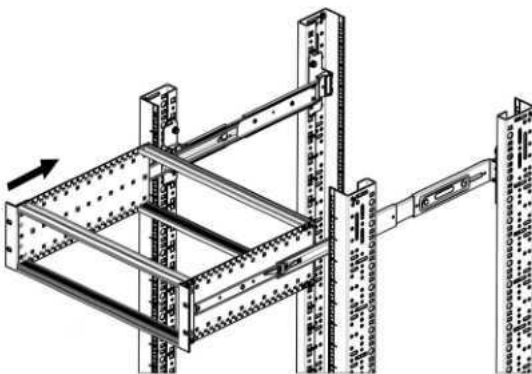


00516001



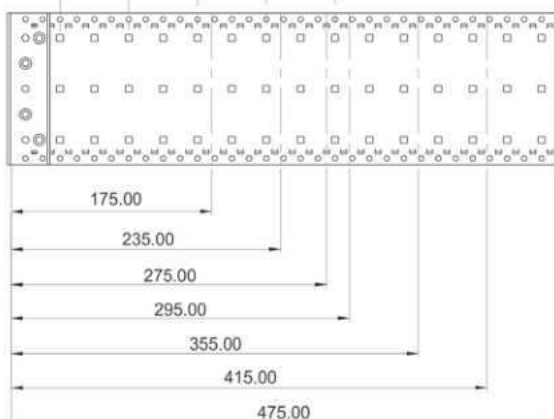
01004146

C dimensions: Varistar 500 mm and 700 mm, Novastar 507 mm to 707 mm



Y = 553 mm

L = 599 mm



00521051

Screw-on position for telescopic slide on side panel of subrack

- Suitable for 84 HP width subracks (type F, type H, type L)
- Locks at full extension
- Hinged
- Extension length > 100 %
- Rail width 7.5 mm
- Maximum clear width of extension/drawer w = 84 HP (435 mm)

DELIVERY INCLUDES

Item	Qty	Description
1	2	Telescopic slide, St, zinc-plated

ORDER INFORMATION

Length L	Extension length Y	Load-carrying capacity	Part no.
mm	mm	kg	

559	See table Technical data	15	60110-440
-----	--------------------------	----	------------------

Accessories

Fixing materials kit for Varistar, to mount 2 telescopic slides, PU 1 kit	21120-193
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Fixing materials kit for Novastar, to mount 2 telescopic slides, PU 1 kit	21120-194
---	------------------

Delivery: supplied loose with cabinet or frame	Part no./35
---	--------------------

Technical data

Length L	Extension length Y		
mm	Varistar SL/HD mm	Novastar SL mm	Novastar HD mm
559	553	565	555

NOTE

- To mount on 19" plane please order assembly kit separately
- Telescopic rail cannot be combined with BGTR with corner profile (rear)

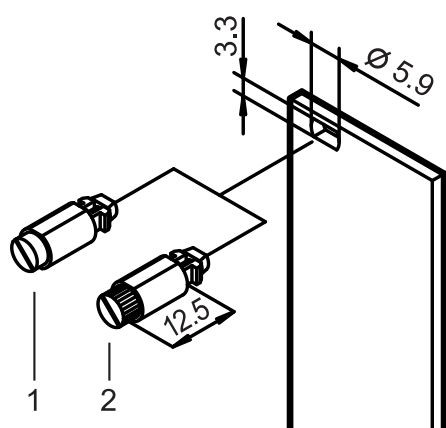
21120-193

Subracks – EuropacPRO

ASSEMBLY PARTS

- Quick-release fasteners, see page 6.73
- Sleeves, see page 6.73
- Screws, see page 6.74 to 6.76
- Cage nuts, see page 6.76
- Tools / Tape measure, see page 6.78

QUICK-RELEASE FASTENERS



06702062

- Vibration and shock proof
- 1/4 rotary lock with defined stop
- Detection of locking position through slot position

DELIVERY COMPRISES

Qty	Description
1	Locking pin, St, locking, Zn die-cast
1	Press-in sleeve, POM

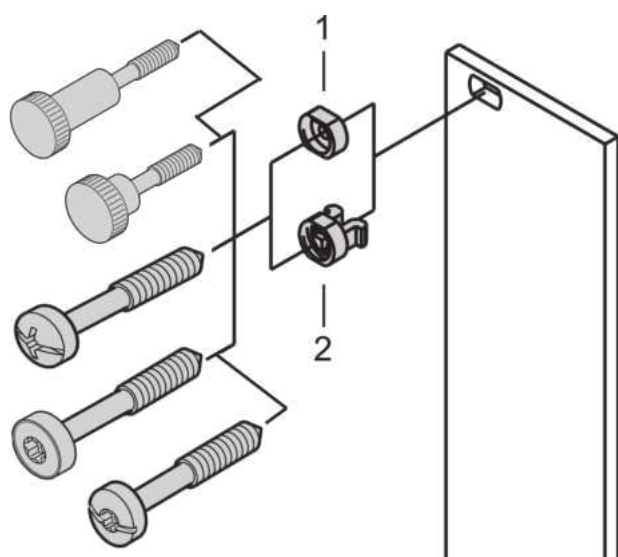
ORDER INFORMATION

Item	Description	Qty/PU	Part no.
1	With slotted head, grey	100	21101-847
1	With slotted head, black	100	21101-848
2	With knurled and slotted head, grey	100	21101-849
2	With knurled and slotted head, black	100	21101-850

NOTE

Quick-release fasteners: mounting without threaded inserts

SLEEVES



107887281

ORDER INFORMATION

Item	Description	Qty/PU	Part no.
2	Plastic sleeve, PA, grey	100	21100-464
2	Plastic sleeve, PA, black	100	21100-591
1	Metal sleeve, brass, nickel-plated	10	21100-659
1	Metal sleeve, brass, nickel-plated	100	21100-660
1	Metal sleeve, brass, black	10	21100-885
1	Metal sleeve, brass, black	100	21100-886
1	Metal sleeve, stainless steel	10	21100-661
1	Metal sleeve, stainless steel	100	21100-662

NOTE

- Metal sleeves must be pressed-in in front panels
- Sleeve does not fit in 2 HP wide front panels

Subracks – EuropacPRO

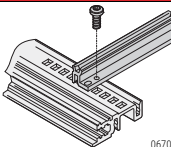
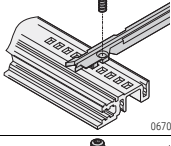
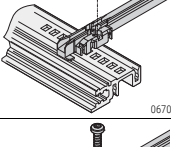
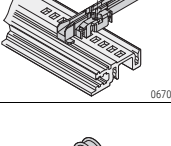
COLLAR SCREWS

ORDER INFORMATION

	Description	Application	Torque	Material	Dimension	Qty/PU	Part no.
	Collar screw with philips drive/slot 137813732	For mounting of front panels when using threaded inserts	max. 0,3 Nm	St, nickel-plated	M2.5 x 12.3	100	21102-026
	Collar screw with pozi drive/slot 108909341	For mounting of front panels when using threaded inserts	max. 0,3 Nm	St, nickel-plated	M2.5 x 12.3	100	21101-101
			max. 0,3 Nm	Stainless steel	M2.5 x 12.3	100	21101-906
			max. 0,3 Nm	St, zinc-plated, black	M2.5 x 12.3	100	21101-102
	Collar screw with Torx 8 /slot	For mounting of front panels when using threaded inserts	max. 0,3 Nm	St, nickel-plated	M2.5 x 12.3	100	21101-976
	Collar screw Torx 8	For mounting of front panels when using threaded inserts	max. 0,3 Nm	St, nickel-plated	M2.5 x 12.3	100	21101-782
			max. 0,3 Nm	St, zinc-plated, black	M2.5 x 12.3	100	21101-783
	Collar screw with knurled head 137813729	For mounting of front or side hinged front panels when using threaded inserts or slides (page 6.68)	max. 0,3 Nm	Brass, nickel-plated	M2.5 x 12.3	100	21101-749
		For mounting of front or side hinged front panels when using threaded inserts or slides (page 6.68) For horizontal rails with long lip (H_LL or R_LL)	max. 0,3 Nm	Brass, nickel-plated	M2.5 x 12.3	100	21101-909

TORX SCREWS, SELF-FORMING

ORDER INFORMATION

	Description	Application	Torque	Material	Dimension	Qty/PU	Part no.
	Torx panhead screw, self-forming 06707058	For extra-robust Al guide rails;	max. 0,2 Nm	St, zinc flake coating, black	2.5 x 7.3	100	24560-157
	Torx countersunk screw, self-forming 06707058	For 4.4" board height, guide rail on horizontal rail, europacPRO, ratiopacPRO	max. 0,2 Nm	St, zinc-plated	2.5 x 7.7	100	24560-158
	Torx panhead screw, self-forming 06707058	For plastic guide rail on horizontal rail; for panel bracket on horizontal rail;	max. 0,2 Nm	St, zinc-plated	2.5 x 9.3	100	24560-141
	Torx panhead screw, self-locking 06707058	For plastic guide rails on horizontal rails	max. 0,2 Nm	St, zinc-plated	2.5 x 9.3	100	21500-039
	Torx panhead screw 06707058	For 6 U support member, backplane mounting, centre horizontal rail		St, zinc-plated	2.5 x 10	100	24560-179

Subracks – EuropacPRO

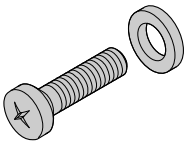
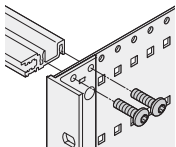
COUNTERSUNK SCREWS

ORDER INFORMATION

	Description	Application	Material	Dimension	Qty/PU	Part no.
 135482278	Torx screw	For support profiles europacPRO, ratiopacPRO	St, zinc-plated	M4 x 5	100	24560-139
		For mixed board assembly and assembly of shortened horizontal rail on support member, with GND/earthing function	St, zinc-plated	M4 x 14	100	24560-145

TORX PANHEAD SCREWS

ORDER INFORMATION

	Description	Application	Material	Dimension	Qty/PU	Part no.
 135485443	panhead screw, taptite, torx and slotted	For backplane mounting	St, zinc-plated	M2.5 x 6	100	24560-159
 135485443  135485450	Torx panhead screw	For Z-rails and connector assembly	St, nickel-plated	M2.5 x 7	100	24560-147
		For perforated rails	St, nickel-plated	M2.5 x 10	100	24560-148
		For backplane mounting	St, nickel-plated	M2.5 x 12	100	24560-161
			St, nickel-plated	M2.5 x 14	100	24560-162
 a2a45178	Washer	For insulated backplane mounting	Plastic, PA	2.8 x 6.3 x 2	100	21101-964
 a2a45040	Screw + plastic washer (PA)	For backplane mounting	St, nickel-plated	M2.5 x 12	100	21100-777
 135482269	Torx panhead screw	To bolt on support bracket, rear hood, corner profile on side panel, lengthening bracket and connecting bracket	St, zinc-plated	M4 x 6	100	24560-135
		To bolt-on cover plate or mounting plate, with GND/earthing function	St, zinc-plated	M4 x 6	100	24560-151
		To bolt-on cover plate or mounting plate, with GND/earthing function, self-forming thread	St, zinc-plated	M4 x 6	100	21101-884
 06707058	Torx panhead screw	For horizontal rail on side panel if guide rails are bolted to slot 1	St, zinc-plated	M4 x 10	100	24560-155
 135482266		For horizontal rail on side panel, with GND/earthing function	St, zinc-plated	M4 x 14	10	24560-131
		For horizontal rail on side panel, with GND/earthing function	St, zinc-plated	M4 x 14	100	24560-130

Subracks – EuropacPRO

GRUB SCREWS

ORDER INFORMATION

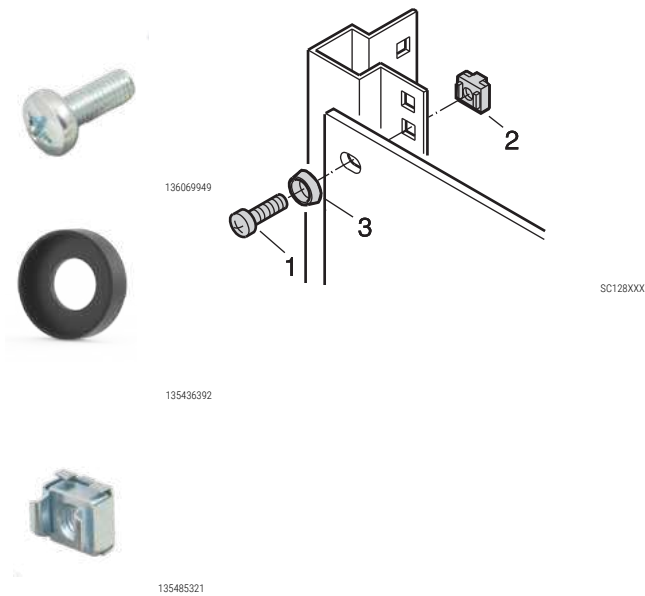
Description	Application	Material	Dimension	Qty/PU	Part no.
 135545261 Grub screw	For threaded inserts M2.5 and perforated strips Torque: 0,37Nm	Stainless steel	M2.5 x 9, Torx8	100	21102-980
	For threaded inserts M2.5	St, nickel-plated	M2.5 x 8	100	21100-276
	For threaded inserts M3	St, zinc-plated	M3.0 x 8	100	21100-646

SQUARE NUTS

ORDER INFORMATION

Description	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 KITS



- For assembly of subracks in cabinets or 19" cases
- For assembly of desk-top cases in cabinets by means of 19" brackets

DELIVERY COMPRISES (kit)

Item	Qty	Description
1	1	Pozidrive screw M6 x 16, zinc-plated
2	1	Plastic washer, ABS, black
3	1	Cage nut M6, steel nickel plated

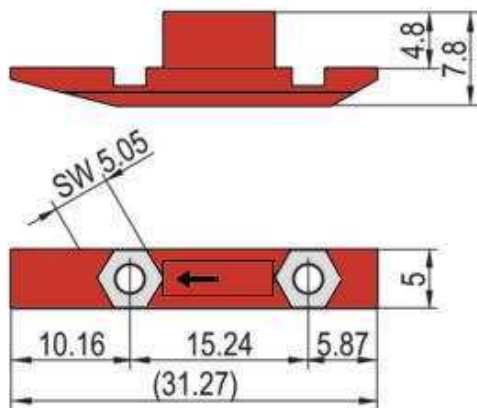
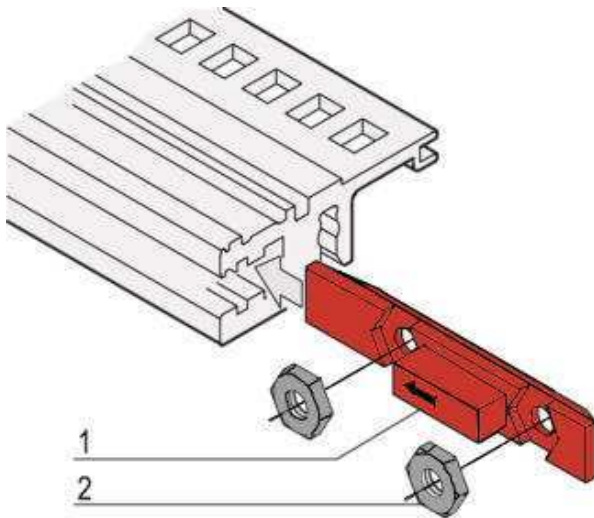
ORDER INFORMATION

Description	Part no.
PU = 8 x screw, washer, nut	21100-435
PU = 50 each of M6 screw, washer and cage nut	21101-809
PU = 100 each of M6 screw, washer and cage nut	21101-810

- For 19" brackets with material thickness of 1.5 mm, see "Assembly kits" in chapter Cabinet accessories

Subracks – EuropacPRO

SLIDE, TO ACCOMMODATE 2 NUTS



- The slide is pushed into the groove of the horizontal rail to front or rear (type VT)

DELIVERY COMPRISES (kit)

Item	Qty	Description
1	1	Slide, PBT, red, UL 94 V-0
2	2	Nut, M2.5, St, acier nickelé

ORDER INFORMATION

Description		Part no.
Slide nut kit 1	100 slides/200 nuts	24560-165
Slide nut kit 2	12 slides/24 nuts	24560-166

NOTE

- Nuts used in item 3 suitable for:
 - hinged front panels, 84 HP
 - front or rear panels, 84 HP
- Nuts used in item 4 suitable for:
 - hinged front panels
- Nuts used in item 3 and 4 suitable for:
 - two front panels

06702060

ORDER INFORMATION

TAPE MEASURE

- ## ORDER INFORMATION

A blue and red folding ruler is shown extended diagonally. The ruler has a blue body with a red sliding mechanism. The scale is marked in centimeters from 0 to 100. The brand name 'Folding ruler' is visible on the blue body.

Subracks – EuropacPRO

APPLICATION EXAMPLES

Application: Transportation/defense sectors



- Mounting frame to accommodate a 36 HP wide railway subrack, frame from stainless steel

06108006



06103001

- Robust assembly by double bolt-on fixing
- Lateral ducting in cabinet
- Combined mounting 6 U+ 2 x 3 U

Application: Measurement, control and instrumentation sectors



- Combined mounting with 2 x 3 U in 6 U
- Divider plate to separate different sections
- Installation with strengthened guide rails

06108002



06108003

- Subrack with additional telescopic fan unit
- Adaptation at bottom and top integrated into the side panel

Application: Telecoms sectors



06112023

- Shielded subrack for special applications with mounting plate, cover and base plate
- Mounting plate for heavy assemblies



06101005

- Subrack with plastic cable ducting for fibre optic cables
- Terminal area at top

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.

Simple assembly with europacPRO kits:



06107001

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

Two ways of reaching your desired product:

- Kits
- Individual configuration

Individual configuration:

SIDE PANELS TYPE F FOR STAINLESS STEEL GASKET

ORDER INFORMATION

	Side panel type F	19" bracket without handle holes	19" bracket with handle holes	19" bracket depth-adjustable	EMC gasket (stainless steel)	Rear angle	Side panel connection	
								
	without 19" bracket, Al 2 mm, passivated, please order 19" bracket and corner profile separately	with lateral grooves for stainless steel EMC gasket, All extrusion, rear side etched, front anodized	with lateral grooves for stainless steel EMC gasket, All extrusion, rear side etched, front anodized, please order front handles separately.	All extrusion, passivated	inserted laterally into the grooves of the front panel	All extrusion, surface clear, passivated, with lateral grooves for stainless steel EMC gasket, rear hood cannot be mounted simultaneously	Zn die-cast, incl. fixing material kit, for connecting two by two side panels (on top of each other)	
Height	Depth	1 piece	P12 1 pair	P12 2 pair	P12 1 pair	P12 10 pieces	P12 1 pair	P12 4 pieces
3	175	34560-185						
3	235	34560-187						
3	275 1)	34579-300						
3	277.75 2)	34579-002						
3	295	34560-189	24560-197	24560-198	24560-199	21101-705	24561-198	21101-954

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



Light

06197007

Heavy

06197008

Rugged

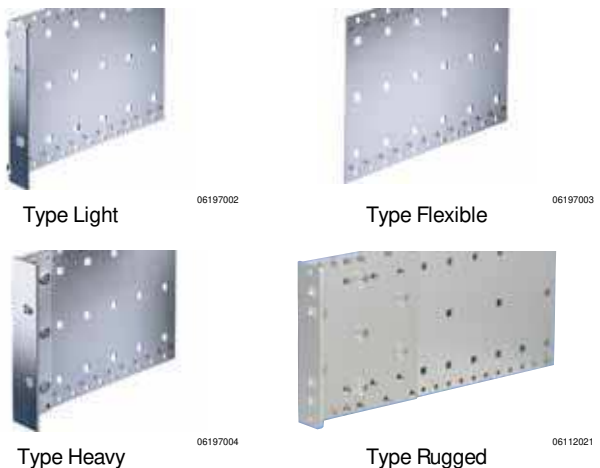
06112004

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



Type Light

06197002

Type Flexible

06197003

Type Heavy

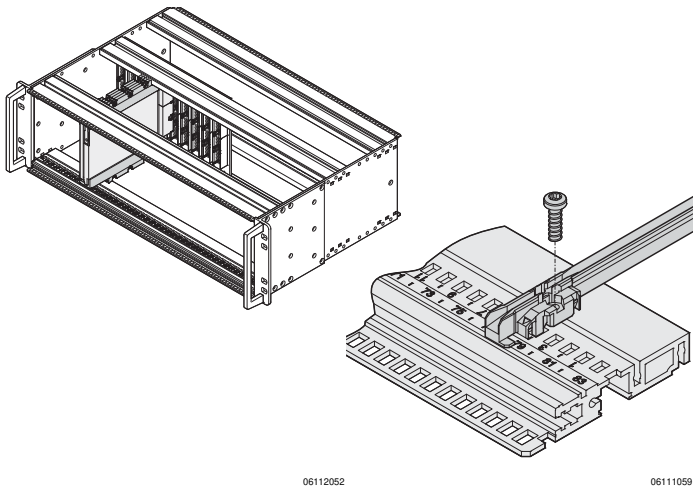
06197004

Type Rugged

06112021

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, ...).

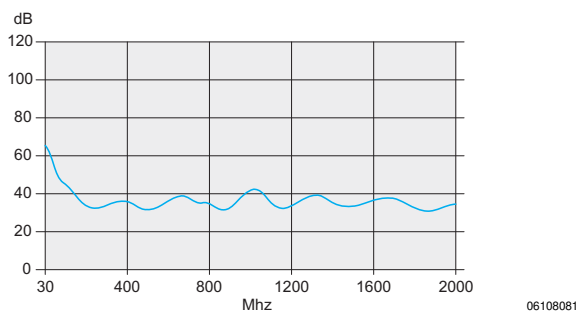
Robust snap-in fixings on the plastic rails assure a secure grip, even when exposed to vibrations. In the case of H and R-type horizontal rails the guide rails can also be bolted on. For extreme stresses, guide rails in aluminium extrusion are used.

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.

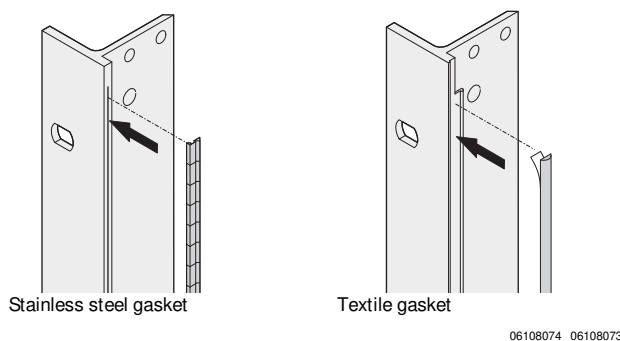
The continuous numbering on the horizontal rail (from 28 HP) and the markings on the guide rails facilitate quick fitting in the correct position.

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



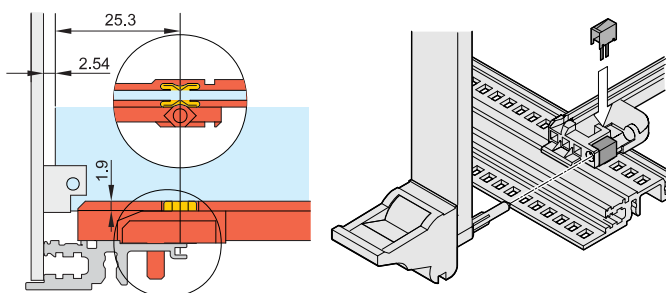
The product platform europacPRO offers a variety of off-the-shelf solutions to assure electromagnetic compatibility (EMC) and to avoid electrostatic discharge (ESD).



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)

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

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