

Table of Horizontal rails

Ripac extrusion system: Complete, simple and easy to manage

To fit all subrack systems as well as the Ripac Vario-Module instrument case/system enclosure range

Main sections	A Front horizontal rail	A1 Front horizontal rail, double screw-fastening	A2 Front horizontal rail, double screw-fastening (Ripac EASY)	W (B) Front horizontal rail, with 10 mm extension, for extractor handle type IV or VII	B1 Double front horizontal rail, with 10 mm extension	B2 Front horizontal rail, with 10 mm extension, double screw-fastening	C1 Rear horizontal rail
Additional sections							
E Rear adaptor rail, centre, to accommodate guide rails	-	-	-	-	-	-	-
F Z rail for connector	-	-	-	-	-	-	
G Insulating strips ¹⁾	-	-	-	-	-	-	
H Conductive strips ¹⁾	-	-	-	-	-	-	
I Threaded insert							-
J Identification strips			-				
K EMC gaskets, horizontal			-				-

¹⁾ For conductive or insulated attachment of backplanes.

All system requirements may be covered with just a few basic types of horizontal rail. A cost-effective, easy-to-manage range.

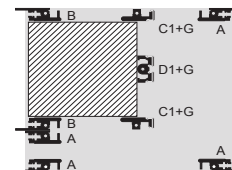
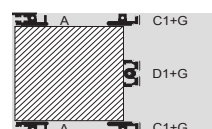
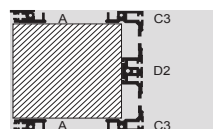


























Table of Horizontal rails

Ripac extrusion system: Complete, simple and easy to manage

To fit all subrack systems as well as the Ripac Vario-Module instrument case/system enclosure range

Main sections	C3 Rear horizontal rail, with integral Z-rail	C4 Rear horizontal rail, double screw-fastening, for backplane mounting (Ripac EASY)	C5 Rear horizontal rail, with integral Z-rail, double screw-fastening (Ripac EASY)	C6 Rear horizontal rail, double screw-fastening	D1 Rear horizontal rail, centre	D2 Rear horizontal rail, centre, with integral Z-rail (also for Ripac EASY)	D3 Rear horizontal rail, centre, with integral contact surface (Ripac EASY)	D4 Rear horizontal rail, for backplane mounting, double screw-fastening (Ripac EASY)
Additional sections								
E Rear adaptor rail, centre, to accommodate guide rails	-	-	-	-				-
F Z rail for connector	-	-	-			-	-	-
G Insulating strips ¹⁾	-	-	-			-	-	-
H Conductive strips ¹⁾	-	-	-			-	-	-
I Threaded insert		-			-		-	
J Identification strips		-	-		-	-	-	-
K EMC gaskets, horizontal	-	-	-	-	-	-	-	-

¹⁾ For conductive or insulated attachment of backplanes.

Side panels and flanges



Side Panels

For Ripac Vario, Ripac Vario EMC,
Ripac Compact, Ripac Vario Mobil
Mounting holes and anti-twist half-shears
on a 10 mm pitch pattern.

Material:

2.5 mm aluminium, clear-chromated

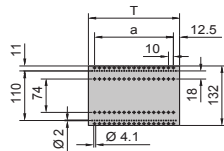


Custom versions available upon request.

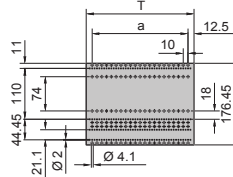
U			Model No. RP									
			3	4 (3 + 1)	4 (3 + 2 x 1/2)	6	7 (6 + 1)	7 (6 + 2 x 1/2)	9	10	11	
D mm	a ¹⁾ mm	Packs of										
185	160	1	3684.511	–	–	3684.529	–	–	–	–	–	–
225	200	1	3684.512	3685.793	3685.890	3684.530	3685.896	3685.893	3685.797	–	–	–
245	220	1	3684.513	3685.850	3685.891	3684.531	3685.897	3685.894	–	–	–	–
285	260	1	3684.514	3684.523	3684.526	3684.532	3685.743	3685.895	–	–	–	–
305	280	1	3684.515	3685.794	–	3684.533	–	–	3685.798	–	–	–
345	320	1	3684.516	3684.524	3684.527	3684.534	3685.744	3685.745	3684.547	–	–	–
365	340	1	3684.517	3685.795	–	3684.535	–	–	3685.799	–	–	–
405	380	1	3684.518	3684.525	3684.528	3684.536	3684.541	3684.543	3684.548	3684.545	–	–
425	400	1	3684.519	–	–	3684.537	–	–	–	–	–	–
465	440	1	3684.520	3685.796	3685.892	3684.538	3684.542	3684.544	3684.549	3684.546	3684.552	–
525	500	1	3684.521	–	–	3684.539	3685.898	3685.959	3684.550	3685.899	3684.553	–
585	560	1	3684.522	–	–	3684.540	–	–	3684.551	–	3684.554	–

¹⁾ a = Distance between the first and last mounting hole

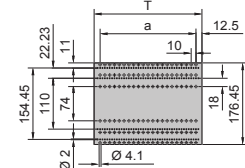
3U



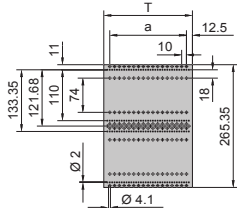
4U (3U + 1U)



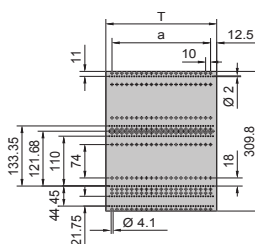
4U (3U + 2 x 1/2U)



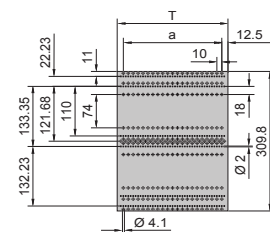
6U



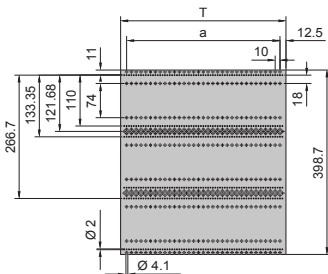
7U (6U + 1U)



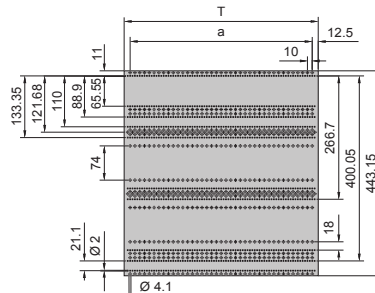
7U (6U + 2 x 1/2U)



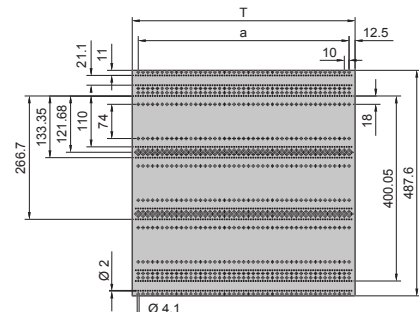
9U



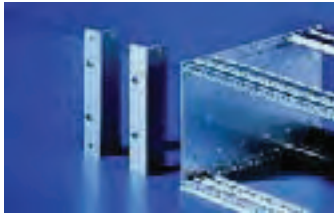
10U



11U



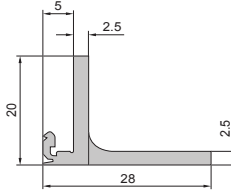
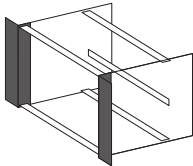
Side panels and flanges



Flange 482.6 mm (19") flange

To fit all Ripac Vario, Ripac Vario EMC, Ripac Compact and Ripac Vario Mobil subracks. With integral channel to accommodate EMC gaskets.

Material:
Extruded aluminium section
Surface finish:
Clear-chromated



U	Packs of	Model No. RP	
		with handle holes	without handle holes
2	1	–	3684.614
3	1	3684.622	3684.615
4	1	3684.623	3684.616
6	1	3684.624	3684.617
7	1	3684.625	3684.618
9	1	–	3684.619
10	1	–	3684.620
11	1	–	3684.621

Custom versions available upon request.

Accessories:

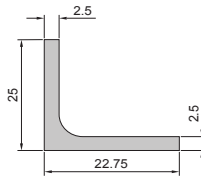
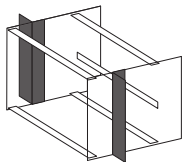
EMC gaskets, vertical,
Handles for subracks.



Flange 482.6 mm (19") flange

Recessed
To fit all Ripac Vario, Ripac Vario EMC and Ripac Vario Mobil subracks.

Material:
Extruded aluminium section
Surface finish:
Clear-chromated



U	Packs of	Model No.	RP
3	1	3684.62	6
4	1	3684.62	7
6	1	3684.62	8
7	1	3684.62	9
9	1	3684.63	0
10	1	3684.63	1
11	1	3684.63	2

Custom versions available upon request.

Also required:

Assembly screws, nuts and washers.
Packs of 4 sets, Model No. RP 3687.015.

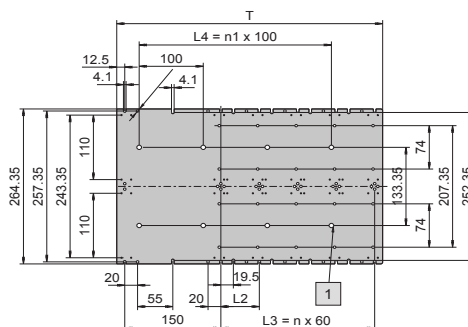
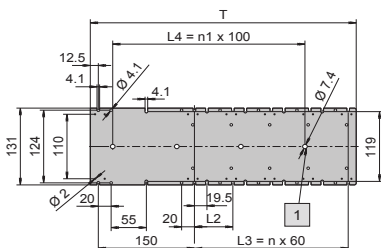


Side Panels for Ripac EASY

- Mounting holes spaced 60 mm apart as slots
- Holes for telescopic slide mounting

Material:
1.5 mm aluminium, corrosion-resistant

D mm	L2	n	n1	Packs of	Max. PCB depth mm	Model No. RP	
						3U	6U
175	–	–	–	2	160	3634.695	3634.720
235	60	–	–	2	220	3634.700	3634.725
295	60	2	2	2	280	3634.705	3634.730
355	60	3	3	2	340	3634.710	3634.735
415	60	4	3	2	400	3634.715	3634.740



Custom versions available upon request.

Accessories:

Flange for Ripac EASY.

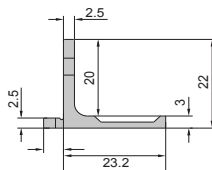
Side panels and flanges



Flange
482.6 mm(19")
for Ripac EASY
Integral holes for mounting handles.

Material:
Extruded aluminium section

Surface finish:
Anodised



U	Packs of	Model No. RP
3	2	3634.745
6	2	3634.750

Custom versions available upon request.

Accessories:

Handles for subracks.



Handles

To fit all subracks and component shelves
For fitting on the subrack flange with handle holes
and on all component shelves.

Material:
Die-cast zinc

Surface finish:
Spray-finished, silver-grey

Supply includes:
Assembly parts.

U	Packs of	Model No. RP
Subracks 3U and 4U	2	3636.010
Component shelves		
Subracks 6U and 7U	2	3666.010

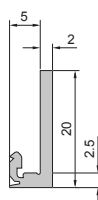
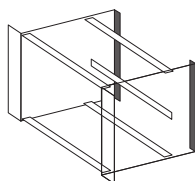


Trim section, rear

To fit all Ripac Vario, Ripac Vario EMC,
Ripac Compact and Ripac Vario Mobil subracks.
Ensures 84 HP fit at the rear of the subrack.
With integral channel to accommodate
EMC gaskets.

Material:
Extruded aluminium section

Surface finish:
Clear-chromated



U	Model No. RP	
	Packs of 1	Packs of 2
2	3684.633	–
3	3684.634	3685.276
4	3684.635	–
6	3684.636	3685.277
7	3684.637	–
9	3684.638	–
10	3684.639	–
11	3684.640	–

Custom versions available upon request.

Accessories:

EMC gaskets, vertical.

Horizontal rails



Front horizontal rail, double screw-fastening (A2)

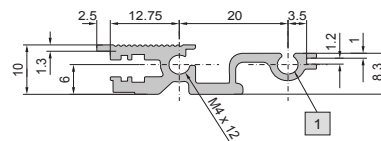
To accommodate guide rails and for the attachment of front panels.

- Pre-assembled screws M4 x 12 for fast mounting on the subrack side panel
- Front projection 2.5 mm corresponding to IEC 60 297-3
- Optional double screw-fastening ensures a high level of stability
- HP pitch pattern of holes for the precise installation of guide rails
- 1 x M4 thread on end face
- Straight-through core hole for optional second screw-fastening

Material:
Extruded aluminium section

Surface finish:
Corrosion-resistant

Supply includes:
2 horizontal rails with pre-assembled threaded inserts and screws M4 x 12.



1 Core hole M4

Usable width (HP)	Packs of	Model No. RP
84	2	3634.600

Custom lengths available upon request.

Accessories:

Assembly screws M4 x 12,
Model No. RP 3634.430 (packs of 100).

Note:
Additional assembly screws are required for double screw-fastening, Model No. RP 3634.430 (packs of 100).



Rear horizontal rail for backplane mounting, double screw-fastening (C4)

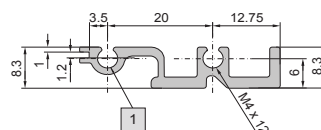
To accommodate guide rails and for direct mounting of backplanes.

- Pre-assembled screws M4 x 12 for fast mounting on the subrack side panel
- The mounting of insulating strips is not necessary, thanks to the integral contact surface
- Tapped holes M2.5 on a 1 HP pitch pattern for mounting backplanes
- HP pitch pattern of holes for the precise installation of guide rails
- Optional double screw-fastening ensures a high level of stability
- 1 x M4 thread on end face
- Straight-through core hole for optional second screw-fastening
- The height of the extrusion allows top-mounting with cover plates

Material:
Extruded aluminium section

Surface finish:
Corrosion-resistant

Supply includes:
1 horizontal rail with pre-assembled crews M4 x 12.



1 Core hole M4

Usable width (HP)	Packs of	Model No. RP
84	2	3634.615

Custom lengths available upon request.

Note:
Additional assembly screws are required for double screw-fastening, Model No. RP 3634.430 (packs of 100.)

Horizontal rails for Ripac EASY



Rear horizontal rail, with integral Z-rail, double screw-fastening (C5)

To accommodate guide rails, integral Z rail for mounting connectors.

- Pre-assembled screws M4 x 12 for fast mounting on the subrack side panel
- HP pitch pattern of holes for the precise installation of guide rails
- Optional double screw-fastening ensures a high level of stability
- 1 x M4 thread on end face
- Straight-through core hole for optional second screw-fastening
- The height of the extrusion allows top-mounting with cover plates

Material:

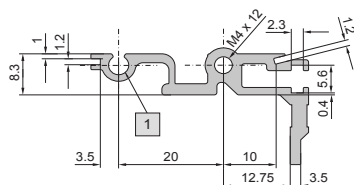
Extruded aluminium section

Surface finish:

Corrosion-resistant

Supply includes:

2 horizontal rail with pre-assembled screws M4 x 12.



1 Core hole M4

Usable width (HP)	Packs of	Model No. RP
84	2	3634.620

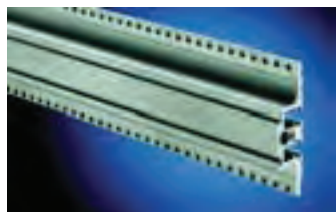
Custom lengths available upon request.

+ Accessories:

Threaded inserts,
Model No. RP 9901.816 (packs of 1).

Note:

Additional assembly screws are required for double screw-fastening, Model No. RP 3634.430 (packs of 100).



Rear horizontal rail, centre, with integral Z-rail (D2)

When using 6 U PCBs or box-type plug-in units. Integral Z rail for mounting connectors to IEC 60 603-2.

- 84 tapped holes M2.5
- M4 thread on end face
- Straight-through core hole

Material:

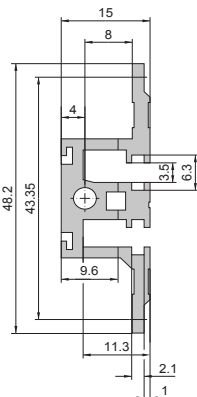
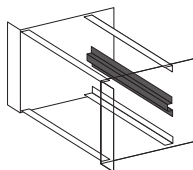
Extruded aluminium section

Surface finish:

Corrosion-resistant

Supply includes:

1 horizontal rail,
2 assembly screws.



Usable width (HP)	Packs of	Model No. RP
84	1	3634.085

Custom lengths available upon request.

Horizontal rails for Ripac EASY



Rear horizontal rail, centre (D3) for backplane mounting

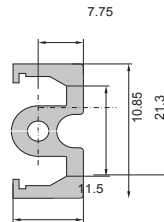
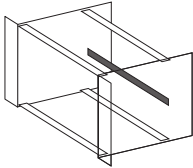
When using 6U PCBs or box-type plug-in units. For mounting backplanes.

- 84 tapped holes M2.5
- M4 thread on end face
- Straight-through core hole
- The mounting of insulating strips is not necessary, thanks to the integral contact surface

Material:
Extruded aluminium section

Surface finish:
Corrosion-resistant

Supply includes:
1 horizontal rail,
2 assembly screws.



Usable width (HP)	Packs of	Model No. RP
84	1	3634.045

Custom lengths available upon request.



Rear horizontal rail, for rear panel mounting

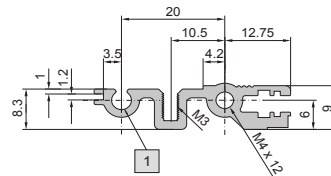
For the attachment of rear front panels.

- Optional double screw-fastening ensures a high level of stability
- With screw channel for roof plate attachment
- 1 x M4 thread on end face
- Straight-through core hole for optional second screw-fastening
- Pre-assembled screws M4x12 for fast mounting on the subrack side panel

Material:
Extruded aluminium section

Surface finish:
Corrosion-resistant

Supply includes:
2 horizontal rails with pre-assembled threaded inserts and screws.



1 Core hole M4

Usable width (HP)	Packs of	Model No. RP
84	1	3634.510

Custom lengths available upon request.

Accessories:

Assembly screws M4 x 12,
Model No. RP 3634.430 (packs of 100).

Note:
Additional assembly screws are required for double screw-fastening,
Model No. RP 3634.430 (packs of 100).



Threaded inserts for Ripac EASY

With M2.5 threaded holes on an HP pitch pattern.

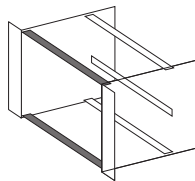
- For sliding into the front horizontal rails (A2) and rear horizontal rails (D4, C5)
- Size: 5 x 2 mm

Material:
Sheet steel, zinc-plated

Usable width (HP)	Packs of	Model No. RP
84	1	9901.816

Custom lengths available upon request.

Horizontal rails



Front horizontal rail (A)

To accommodate guide rails and for the attachment of front panels.

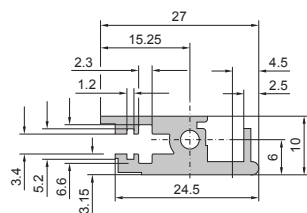
- Front projection 2.5 mm corresponding to IEC 60 297-3
- HP pitch pattern of holes for the precise installation of guide rails
- M4 thread on end face
- Straight-through core hole
- Horizontal rail 192 HP without machining on the end faces. Suitable for cutting to length

Material:

Extruded aluminium section

Surface finish:

Clear-chromated or anodised



Usable width (HP)	Packs of	Model No. RP
4 (left)	1	3684.592
4 (right)	1	3684.955
8 (left)	1	3684.593
8 (right)	1	3684.956
12	1	3684.594
16	1	3684.595
20	1	3684.596
21	1	3685.985
40	1	3684.960
42	1	3684.560
63	1	3684.561
84	1	3684.562
84	2	3685.267 ¹⁾
192	1	3688.000 ²⁾

¹⁾Including 4 assembly screws

²⁾Anodised

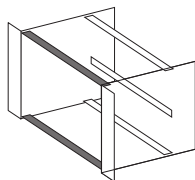
Custom lengths available upon request.

! Also required:

Assembly screws M4 x 12
packs of 100, Model No. RP 3654.300.

+ Accessories:

Threaded inserts (packs of 1).



Front horizontal rail, with double screw-fastening (A1)

To accommodate guide rails and for the attachment of front panels. The double screw-fastening ensures a high level of stability even under extreme loads.

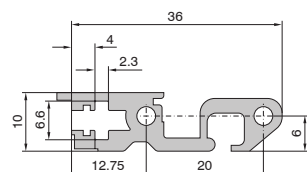
- Load test to DIN EN/IEC 61 587-1, requirement level SL1
- Shock and vibration tests undertaken as per IEC 61 373 (DIN EN 50 155), Category 1, Class B
- Front projection 2.5 mm corresponding to IEC 60 297-3-101
- HP pitch pattern of holes for the precise installation of guide rails
- M4 thread on end face
- Straight-through core hole

Material:

Extruded aluminium section

Surface finish:

Clear-chromated



Usable width (HP)	Packs of	Model No. RP
84	1	9908.721

Custom lengths available upon request.

! Also required:

Assembly screws M4 x 12,
packs of 100, Model No. RP 3654.300.

+ Accessories:

Threaded inserts, Model No. RP 3684.610.

Horizontal rails



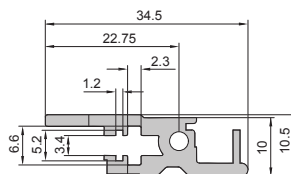
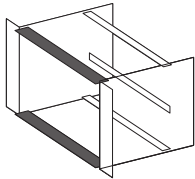
Front horizontal rail, with 10 mm extension (B)

for type IV, IVs and VII injector/extractor handle
To accommodate guide rails and for the attachment of front panels.

- Front projection and pitch pattern of holes based on IEEE 1101.10 and IEC 60 297-3-101, for the use of injector/extractor handles type IV and VII
- HP pitch pattern of holes for the precise installation of guide rails
- M4 thread on end face
- Straight-through core hole
- Horizontal rail 192 HP without machining on the end faces. Suitable for cutting to length

Material:
Extruded aluminium section

Surface finish:
Clear-chromated or anodised



Usable width (HP)	Packs of	Model No. RP
40	1	3684.961
42	1	3684.565
63	1	3684.566
84	1	3684.567
84	2	3685.269 ¹⁾
192	1	3688.001 ²⁾

¹⁾ Including 4 assembly screws

²⁾ Anodised

Custom lengths available upon request.

! Also required:

Assembly screws M4 x 12,
packs of 100, Model No. RP 3654.300.

+ Accessories:

Threaded inserts (packs of 1).



Double front horizontal rail, with 10 mm extension (B1) - Version 1

To accommodate guide rails and for the attachment of front panels.

- Front projection and pitch pattern of holes based on IEEE 1101.10 and IEC 60 297-3-101, for the use of injector/extractor handles type IV and VII
- HP pitch pattern of holes for the precise installation of guide rails
- M4 thread on end face
- Straight-through core hole

Material:
Extruded aluminium section

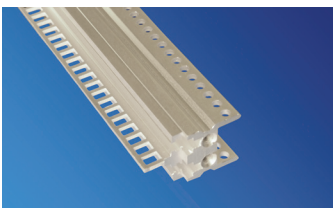
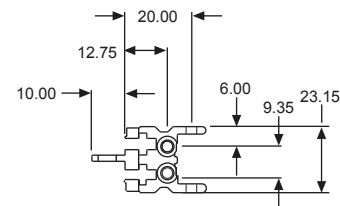
Surface finish:
Clear-chromated

Usable width (HP)	Packs of	Model No. RP
84	1	3687.704

Custom lengths available upon request.

! Also required:

Assembly screws M4 x 12,
packs of 100, Model No. RP 3654.300.



Double front horizontal rail, with 10 mm extension (B1) - Version 2

To accommodate guide rails and for the attachment of front panels.

- Front projection and pitch pattern of holes based on IEEE 1101.10 and IEC 60 297-3-101, for the use of injector/extractor handles type IV and VII
- HP pitch pattern of holes for the precise installation of guide rails
- M4 thread on end face
- Straight-through core hole

Material:
Extruded aluminium section

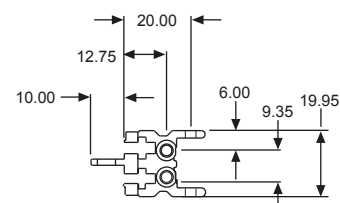
Surface finish:
Clear-chromated

Usable width (HP)	Packs of	Model No. RP
84	1	3687.724

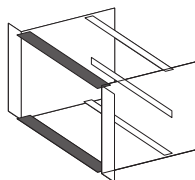
Custom lengths available upon request.

! Also required:

Assembly screws M4 x 12,
packs of 100, Model No. RP 3654.300.



Horizontal rails



Front horizontal rail, with 10 mm extension (B2), with double screw-fastening

for type IV, IVs and VII injector/extractor handle
To accommodate guide rails and for the attachment of front panels. The double screw-fastening ensures a high level of stability even under extreme loads.

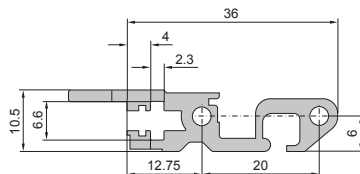
- Load test to DIN EN/IEC 61 587-1, requirement level SL1
- Shock and vibration tests undertaken as per IEC 61 373 (DIN EN 50 155), Category 1, Class B
- Front projection and pitch pattern of holes based on IEC 60 297-3-101, for the use of injector/extractor handles type IV and VII
- HP pitch pattern of holes for the precise installation of guide rails
- M4 thread on end face
- Straight-through core hole

Material:

Extruded aluminium section

Surface finish:

Clear-chromated



Usable width (HP)	Packs of	Model No. RP
84	1	9908.722

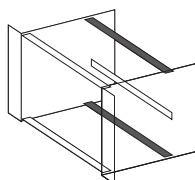
Custom lengths available upon request.

! Also required:

Assembly screws M4 x 12, packs of 100, Model No. RP 3654.300.

+ Accessories:

Threaded inserts, Model No. RP 3684.610 (packs of 1).



Rear horizontal rail (C1)

To accommodate guide rails and for the attachment of Z rails, insulating strips or conductive strips and backplanes.

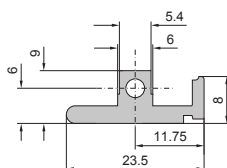
- Tapped holes M2.5 on a 1 HP pitch pattern
- HP pitch pattern of holes for the precise installation of guide rails
- M2.5 thread for the installation of Z rails or backplanes
- M4 thread on end face
- Straight-through core hole
- Horizontal rail 192 HP without machining on the end faces. Suitable for cutting to length

Material:

Extruded aluminium section

Surface finish:

Clear-chromated or anodised



Usable width (HP)	Packs of	Model No. RP
21	1	3685.991
40	1	3684.962
42	1	3684.570
63	1	3684.571
84	1	3684.572
84	2	3685.268 ¹⁾
192	1	3688.002 ²⁾

¹⁾ Including 4 assembly screws

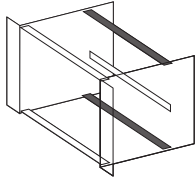
²⁾ Anodised

Custom lengths available upon request.

! Also required:

Assembly screws M4 x 12, packs of 100, Model No. RP 3654.300.

Horizontal rails



Rear horizontal rail, with double screw-fastening (C6)

To accommodate guide rails and for the attachment of Z rails, insulating strips or conductive strips and backplanes. The double screw-fastening ensures a high level of stability even under extreme loads.

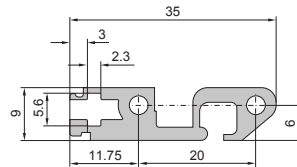
- Load test to DIN EN/IEC 61 587-1, requirement level SL1
- Shock and vibration tests undertaken as per IEC 61 373 (DIN EN 60,155), Category 1, Class B
- Tapped holes M2.5 on an HP pitch pattern
- HP pitch pattern of holes for the precise installation of guide rails
- M2.5 thread for the installation of Z rails or backplanes
- M4 thread on end face
- Straight-through core hole

Material:

Extruded aluminium section

Surface finish:

Clear-chromated or anodised



Usable width (HP)	Packs of	Model No. RP
84	1	9908.723

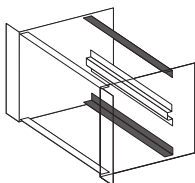
Custom lengths available upon request.

! Also required:

Assembly screws M4 x 12, packs of 100, Model No. RP 3654.300.

+ Accessories:

Threaded inserts, Model No. RP 9901.816 (packs of 2).



Rear horizontal rail, with integral Z rail (C3)

To accommodate guide rails. Integral Z rail for mounting connectors to IEC 60 603-2.

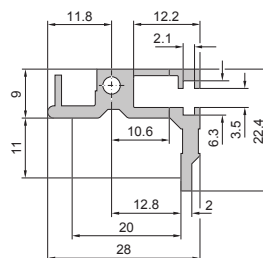
- HP pitch pattern of holes for the precise installation of guide rails
- 84 tapped holes M2.5 for connector mounting
- M4 thread on end face
- Straight-through core hole

Material:

Extruded aluminium section

Surface finish:

Clear-chromated



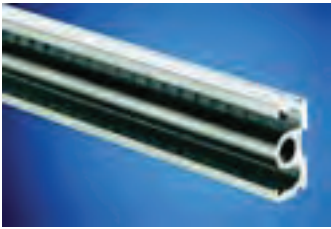
Usable width (HP)	Packs of	Model No. RP
42	1	3686.191
63	1	3686.919
84	1	3686.159

Custom lengths available upon request.

! Also required:

Assembly screws M4 x 12, packs of 100, Model No. RP 3654.300.

Horizontal rails



Rear horizontal rail, centre (D1)

When using 6U PCBs or box-type plug-in units. Facility for the attachment of Z rails, insulating strips or conductive strips.

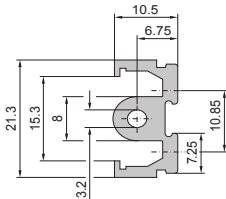
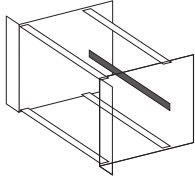
- 84 tapped holes M2.5
- M4 thread on end face
- Straight-through core hole
- Horizontal rail 192 HP for cutting to the required length

Material:

Extruded aluminium section

Surface finish:

Clear-chromated or anodised



Usable width (HP)	Packs of	Model No. RP
40	1	3684.963
42	1	3684.580
63	1	3684.581
84	1	3684.582
84	1	3685.270 ¹⁾
858.5 mm	1	3684.579
192	1	3688.003 ²⁾

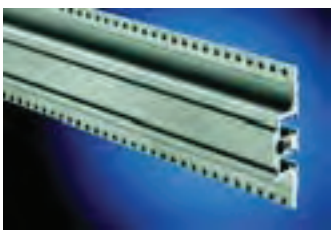
¹⁾ Including 2 assembly screws

²⁾ Anodised

Custom lengths available upon request.

! Also required:

Assembly screws M4 x 12, packs of 100, Model No. RP 3654.300.



Rear horizontal rail, centre, with integral Z rail (D2)

When using 6U PCBs or box-type plug-in units. Integral Z rail for mounting connectors to IEC 60 603-2.

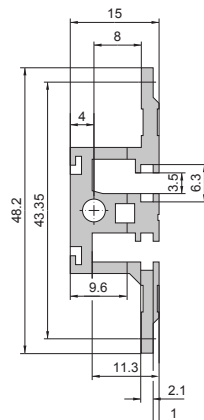
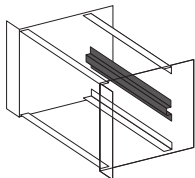
- 84 tapped holes M2.5
- M4 thread on end face
- Straight-through core hole

Material:

Extruded aluminium section

Surface finish:

Clear-chromated



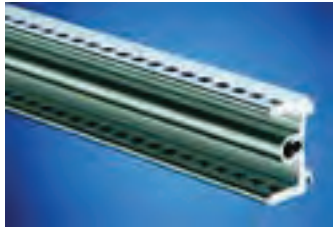
Usable width (HP)	Packs of	Model No. RP
42	1	3687.600
63	1	3687.601
84	1	3687.602
858.5 mm	1	3687.603

Custom lengths available upon request.

! Also required:

Assembly screws M4 x 12, packs of 100, Model No. RP 3654.300.

Horizontal rails



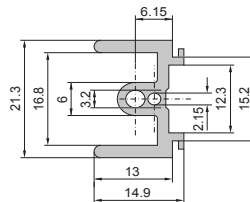
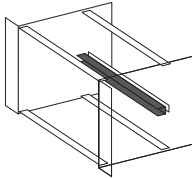
Rear horizontal rail, centre (E)

When subdividing 6U into 2 x 3U, the adaptor rail accommodates the guide rails when fastened to the centre horizontal rail.

- HP pitch pattern of holes for the precise installation of guide rails
- M4 and M2.5 thread on the end face
- Straight-through core hole
- Horizontal rail 192 HP without machining on the end faces. Suitable for cutting to length

Material:
Extruded aluminium section

Surface finish:
Clear-chromated or anodised



Usable width (HP)	Packs of	Model No. RP
12	1	3684.587
16	1	3684.588
20	1	3684.589
40	1	3684.964
42	1	3684.590
63	1	3686.005
84	1	3684.591
84	1	3685.272 ¹⁾
858.5 mm	1	3684.584
192	1	3688.004 ²⁾

¹⁾ Including 2 assembly screws

²⁾ Anodised

Custom lengths available upon request.

! Also required:

Assembly screws M4 x 12,
packs of 100, Model No. RP 3654.300.

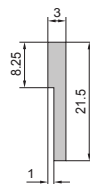


Z rail for connector IEC 60 603-2 (F)

With 84 x M2.5 threaded holes.

Material:
Extruded aluminium section

Surface finish:
Clear-chromated



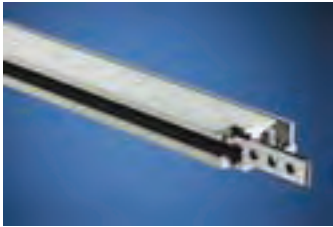
Usable width (HP)	Packs of	Model No. RP
4	1	3684.597
8	1	3684.598
20	1	3684.599
40	1	3684.965
42	1	3684.600
63	1	3684.601
84	1	3684.602
84	2	3685.271

Custom lengths available upon request.

! Also required:

Assembly screws M2.5 x 6,
packs of 100, Model No. RP 3654.340.

Horizontal rails



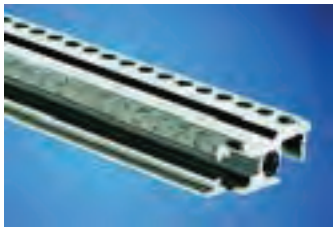
Threaded insert (I)

With M2.5 threaded holes on an HP pitch pattern. For sliding into the horizontal rail. There are two threaded insert versions, which are distinguished by their height.

Material:
Sheet steel, zinc-plated

Usable width (HP)	Packs of	Model No. RP	
		6 x 2 mm	5 x 2 mm
		for horizontal rails	
		Type A, A1, B, B1, B2, C3	Type A2, C5, C6, D4
4	1	3684.603	-
8	1	3684.604	-
12	1	3684.605	-
16	1	3684.606	-
20	1	3684.607	-
21	1	3686.149	-
40	1	3684.966	-
42	1	3684.608	-
63	1	3684.609	-
84	1	3684.610	9901.816

Custom lengths available upon request.



Identificationstrip (J)

To identify the slots on the subrack, self-adhesive. The following versions are available.

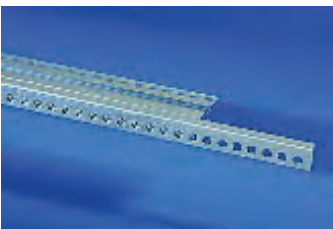
- 4 mm wide:
- for horizontal rails
 - for rear horizontal rails
- 2 mm wide:
- for front horizontal rails (channel on front face)

For horizontal rail	Width mm	Label	Packs of	Model No. RP
Front	4	1 ... 84	1	3687.575
Rear	4	1 ... 168	1	3687.577
Front	4	84 ... 1	1	3687.574
Front	2	1 ... 84	1	3687.576

Custom lengths available upon request.



EMC gaskets, horizontal (K)



Conductive strip (H)

For conductive mounting of backplanes.

- 84 HP
- Slides onto the rear horizontal rail

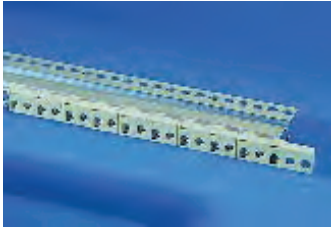
Material:
Aluminium

Usable width (HP)	Packs of	Model No. RP
84	1	3684.612
84	2	3685.273

Custom lengths available upon request.



Horizontal rails



Insulating strip (G)

For insulated mounting of backplanes.

- 21 HP
- * Can be shortened (4 x 4HP segments, 1 x 5HP segment).
- Slides onto the rear horizontal rail

Material:

Plastic, self-extinguishing to UL 94-V0



Rear horizontal rail, centre, fitted with insulating strips (top) and conductive strips (bottom).



Usable width (HP)	Packs of	Model No. RP
21	1	3684.611
21	8	3685.274



Punched strip

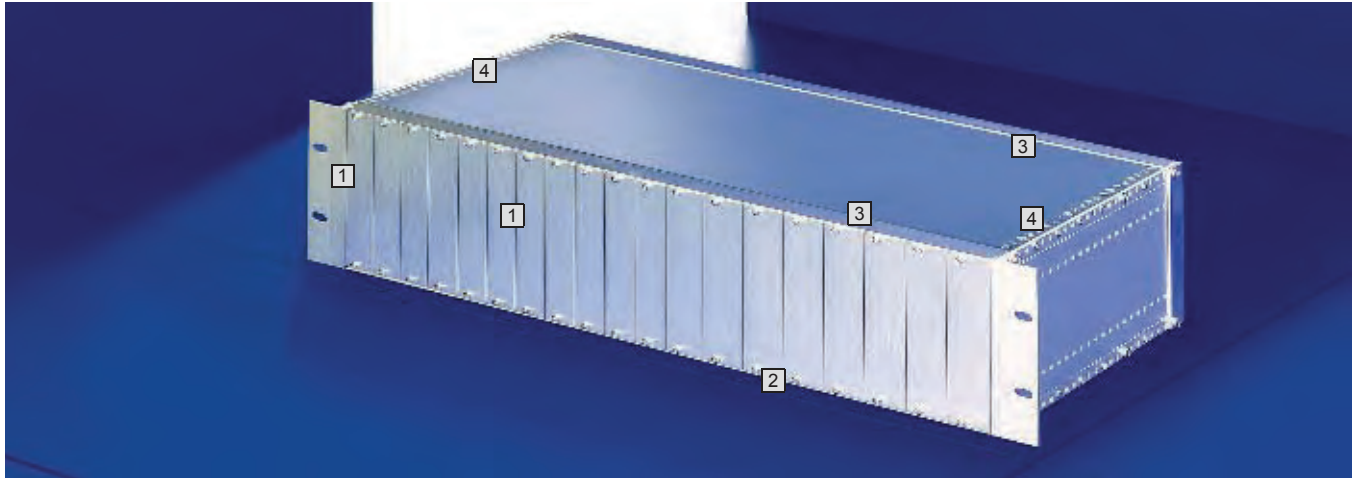
Material:
Aluminium



Usable width (HP)	Packs of	Model No. RP
84	2	3685.275

Custom lengths available upon request.

Components for EMC Installation

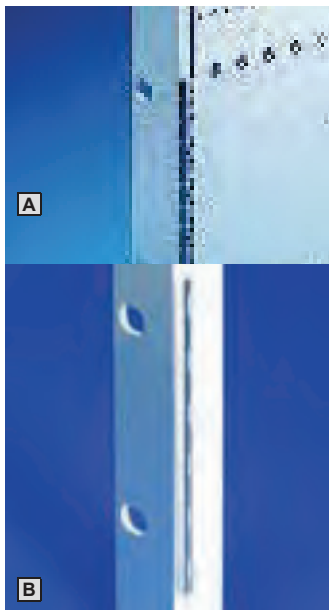


EMC (electromagnetic compatibility) refers to the ability of an electrical device to function satisfactorily in its electromagnetic environment without influencing or being influenced by this environment more than is admissible.

These requirements were taken into account when developing the Rittal subracks. They are made entirely from metal and coated with a conductive surface finish.

Stainless steel EMC gaskets ensure conductive connection of the separate parts.

- 1 EMC gaskets, vertical
- 2 EMC gaskets, horizontal
- 3 EMC gaskets for covers
- 4 Mounting blocks



EMC gaskets, vertical

To ensure EMC protection between the subrack side panel and the front/rear panels. There are two versions available.

Suitable for mounting on:

- 482.6 mm (19") flanges for subracks
- Corner trims, rear
- EMC contact strip
- U-channel front panels
- Trim panels for Ripac Vario-Module
- Flanges for Ripac Vario-Module

Material:

Stainless steel

German patent no. 101 15 525 and no. 198 46 627
 US patent no. 6,500,012
 US patent no. 7,044,753



A Version 1: Segmented

U	Model No. RP Packs of 1	Model No. RP Packs of 10
1	3686.973	3684.236
2	3686.974	3684.237
3	3686.975	3684.238
4	3686.976	3684.239
6	3686.977	3684.240
7	3686.978	3684.241
9	3686.979	3684.242
10	3686.980	3684.243
11	3686.981	3684.244

Custom lengths available upon request.

B Version 2: One-piece

U	Model No. RP Packs of 1
2	3688.610
3	3688.611
4	3688.612
5	3688.613
6	3688.614
7	3688.615
8	3688.634
9	3688.616
10	3688.609
11	3688.633
12	3688.606

Components for EMC Installation

**EMC contact strip**

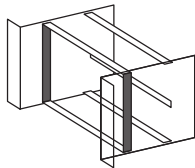
To ensure EMC protection when horizontal rails are set-back. Integral channel to accommodate EMC gaskets.

Material:

Extruded aluminium section, clear-chromated

Note:

2 sections are required for each subrack.



EMC

U	Packs of	Model No. RP
3	1	3684.643
6	1	3684.644
9	1	3684.645



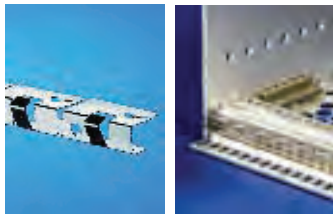
Custom lengths available upon request.

**Also required:**

EMC gaskets, vertical.

Assembly screws M3 x 6, packs of 100.

Model No. RP 3684.233.

**EMC gaskets, horizontal (K)**

For horizontal EMC protection. For snap-fastening onto the front horizontal rails.

Material:

Stainless steel

European patent no. 0 937 375

with validity for DE

US patent no. 6,137,052

Chinese patent

no. ZL 97 1 98582.0

EMC

Usable width (HP)	Packs of	Model No. RP
For top/bottom horizontal rail		
40	1	3684.974
84	1	3684.808
84	10	3684.246
For sub-division of 6 U into 2 x 3 U, between 2 horizontal rails		
84	1	3685.789
84	10	3685.229



Custom lengths available upon request.

**EMCgaskets**

for covers

For EMC shielding between the horizontal rails and covers.

Material:

Stainless steel

EMC

HP	Packs of	Model No. RP
84	10	3684.245



Custom lengths available upon request.

**Mounting blocks**

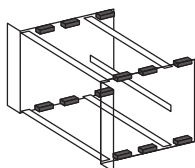
For mounting covers, versions 1 – 4, on the subrack side panel.

Material:

Die-cast zinc, nickel-plated

Note:

For EMC applications, mounting blocks must be fitted across the entire subrack depth. The table here shows the number of mounting blocks required to install 1 cover plate with EMC shielding.



EMC

	Packs of	Model No. RP
Mounting blocks 28.5 mm long	10	3684.234

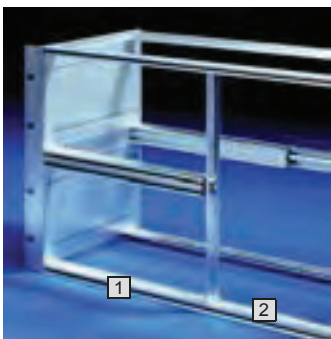
**Also required:**

Assembly screws M3 x 6, packs of 100.

Model No. RP 3684.233.

Number of mounting blocks for max. EMC protection	Cover plate depth mm
4	142
8	192
10	212
12	252
14	272
16	312
18	332
20	372
24	432
28	492
32	552

Mounting kits



Vertical mounting kit

For the combined installation of single and double Euroboards in 6U and 9U subracks.

Material:
Aluminium, clear-chromated

Supply includes:
2 front horizontal rails,
1 adaptor rail,
2 threaded inserts,
1 vertical support (from 12 HP),
assembly parts.

+ Accessories:

Front panel.
EMC gaskets, horizontal.

6U (2 x 3U)

HP	HP	Model No. RP
1 (2 x 3U)	2 (6U)	
14	68	3684.220
21	61	3684.221
28	54	3684.222
40	42	3684.223
42	40	3684.224

9U (1 x 6U + 1 x 3U)

HP	HP	Model No. RP
(9U)	(1 x 6U + 1 x 3U)	
80	4	3684.225
76	8	3684.226
70	12	3684.227
66	16	3684.228
62	20	3684.229

Custom versions available upon request.



Vertical support

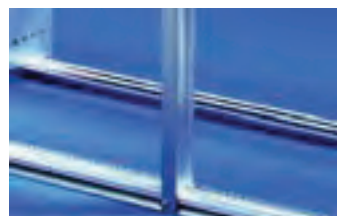
Required for the combined installation of single, double and triple Euroboards in one subrack.

Material:
Aluminium, extruded

Surface finish:
Clear-chromated

U	Packs of	Model No. RP
6	1	3684.678
9	1	3684.679

Custom versions available upon request.



Front panel

To conceal the vertical support of the vertical divider kit.

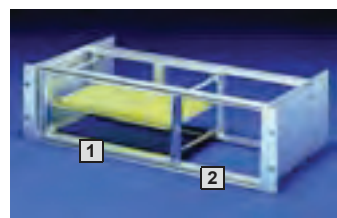
Material:
Aluminium, anodised

Supply includes:
Assembly parts.

U	HP	Packs of	Model No. RP
6	2	1	3685.176
9	2	1	3685.286

Custom versions available upon request.

EMC version.



Horizontal mounting kit

For the horizontal installation of 6U/9U PCBs in 3U/4U subracks.

1 Horizontal installation space:
3U subrack: 20 HP (5 slots)
4U subrack: 28 HP (7 slots)

2 Vertical installation space:
(when installing double Euroboards)
31 HP (without trim frame)
28 HP (with trim frame)

Material:
Aluminium, clear-chromated

Supply includes:
2 horizontal rails, front,
2 horizontal rails, rear,
1 or 2 horizontal rails, rear, centre,
2 threaded inserts,
4 or 6 insulating strips,
4 connecting parts,
assembly parts.

For backplane assembly
with standard horizontal rail, front

U horizontal	Model No. RP	
	for 3U subrack	for 4U subrack
6	3684.206	3684.208
9	3684.207	3684.209

For backplane assembly,
front horizontal rail with 10 mm extension

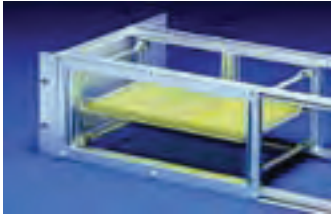
U horizontal	Model No. RP	
	for 3U subrack	for 4U subrack
6	3684.210	3684.212
9	3684.211	3684.213

Custom versions available upon request.

+ Accessories:

Trim frame.

Mounting kits/guide rails

**Trim frame**

for horizontal mounting kit
To conceal the front sections of the horizontal mounting kit.

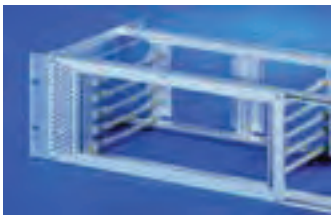
Material:
Aluminium, anodised

U horizontal	HP	Model No. RP	
		for 3U subrack	for 4U subrack
6	56	3685.783	3685.785
9	84	3685.784	3685.786

Custom versions available upon request.

! **Also required:**

Collar screws and plastic collars, packs of 100 sets, Model No. RP 3658.160.

**Trim frame, vented**

for horizontal mounting kit
To conceal the front sections of the horizontal mounting kit.

Material:
Aluminium

Surface finish:
Anodised, clear-chromated (EMC version)

Supply includes:
EMC accessories (with EMC version).

U horizontal	HP	Model No. RP	
		for 3U subrack	for 4U subrack
6	63	3685.787	3685.788

! **Also required:**

Collar screws and plastic collars, packs of 100 sets, Model No. RP 3658.160.

EMC version

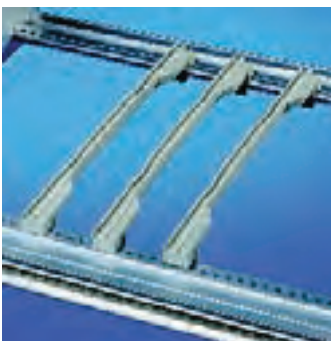
U horizontal	HP	Model No. RP	
		for 3U subrack	for 4U subrack
6	63	3685.291	3685.292

Custom versions available upon request.

! **Also required:**

Centering screws, packs of 100, Model No. RP 3687.050.

EMC

**Plastic guide rails**

For 160, 220 and 280 mm PCBs up to 2 mm nominal thickness.

2 versions are available:

- Snap-in-fastening and screw-fastening
- Snap-in-fastening

Material:
Polycarbonate, base material to UL 94-V0

PCB depth mm	Packs of	Model No. RP	
		Snap-in-fastening/ screw-fastening ¹⁾	Snap-in-fastening
100	1	–	3688.005
160	10	3688.048	3688.045
220	10	3688.049	3688.046
280	10	3688.052	3688.047

! **Also required:**

¹⁾ Assembly screws, packs of 100, Model No. RP 3654.360.

**Plastic guide rails**

For contact spring fitting
For 160, 220 and 280 mm PCBs up to 2 mm nominal thickness. By installing contact springs, an electrical connection can be made between the PCB and the assembly.

Material:
Polycarbonate, base material to UL 94-V0

PCB depth mm	Packs of	Model No. RP
160	10	3688.053
220	10	3688.054
280	10	3688.056

+ **Accessories:**

Contact springs.

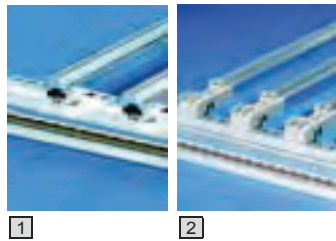
Guide rails



Contact springs

For electrical connection between the PCB and the subrack, or to discharge static charges from the PCB.
Suitable for installation in "guide rails for contact spring fitting" and "end pieces for guide rails".

Packs of	Model No. RP
10	3687.726



Guide rails, aluminium

For high loads. Suitable for a nominal PCB thicknesses of 1.6 mm. A distinction is made between guide rails for and without end pieces. The guide rails without end pieces are screw-fastened directly into the horizontal rail.

Material:
Aluminium

PCB depth mm	Packs of	Model No. RP	
		1 Without end piece ¹⁾	2 For end pieces
160	1	3687.526	3684.663
220	1	3687.527	3684.664
280	1	3687.528	3684.665
160	10	3688.064	3688.057
220	10	3688.065	3688.058
280	10	3688.066	3688.059
1000	1	3684.666	-

! Also required:

- ¹⁾ Screw M2.5 x 6, packs of 100. Model No. RP 3654.340.
- ¹⁾ Nut M2.5, packs of 100. Model No. RP 3654.370.
- ¹⁾ Retaining cage M2.5, packs of 100.



End pieces

for guide rails, aluminium
To discharge static charges, contact springs RP 3687.726 may be used.

Material:
Polycarbonate, base material to UL 94-V1

	Packs of	Model No. RP
End piece, front	1	3684.759
End piece, rear	1	3685.668
End pieces, pairs	10	3688.028

+ Accessories:

Contact springs.



Keyable guide rails, plastic

- Guide rails 4 HP, keyable, to IEEE 1101.10.
- For 1.6 – 2.0 mm nominal thickness
 - Chambers for the installation of keys
 - Option of installing ESD contacts to discharge static charges
 - Narrow design for maximum air flow
 - Various colour variants to identify the slots:
 - Red for system slot
 - Green for power supply
 - Yellow and grey for board-type plug-in units

Material:
Polycarbonate, base material to UL 94-V0

Note:
Only for use in conjunction with type IV, IVs, VII injector/extractor handles.

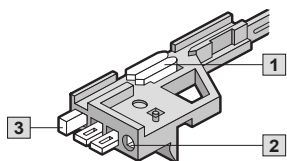
+ Accessories:

- Keys.
- ESD contact.
- Extractor handles type IV, IVs, VII.



- 1** ESD contact for guide rails
- 2** ESD contact for front panel
- 3** Keys

For PCB depth mm	Packs of	Model No. RP			
		Grey	Red	Green	Yellow
160	10	3685.257	-	-	-
220	10	3685.258	-	-	-
280	10	3685.259	-	-	-
160	1	3684.669	3686.063	3688.055	3689.089
220	1	3684.953	9902.240	-	3689.091
280	1	3684.954	-	-	3689.093



Guide rails

**Keyable guide rails**

with 1/2 HP offset
Guide rails with 1/2 HP offset for use e.g. in telecom applications. This allows PCBs to be populated on both sides. Green guide rails with offset are prescribed in the specification (PICMG 2.11) for the installation of power supply units.

- For 1.6 – 2.0 mm PCB thickness
- 4 HP x 160/220 mm
- Narrow design for maximum air flow
- Chambers for the installation of keys
- Option of installing ESD contacts to discharge static charges

Material:

Polycarbonate, base material to UL 94-V0

Note:

Only suitable for use in conjunction with extractor handles type IV, IVs, VII with 1/2 HP offset.

For PCB depth mm	Packs of	Colour	Model No. RP
160	10	Grey	3688.062
		Grey	3686.137
	1	Yellow	3689.090
		Green	3687.832
20	10	Grey	3688.060
	1	Grey	3686.136
		Yellow	3689.092

**Accessories:**

Keys,
ESD contact
Extractor handles type IVs, VII
with 1/2 HP offset.

**Keyable guide rails**

For I/O assemblies
Guide rails 4 HP, keyable, to IEEE 1101.10. Prepared to accommodate a ground contact for assembly of a plug-type connection.

- For 1.6 – 2.0 mm nominal thickness
- For 80 mm deep PCBs
- Chambers for the installation of keys
- Option of installing ESD contacts to discharge static charges
- Narrow design for maximum air flow

Material:

Polycarbonate, base material to UL 94-V0

Note:

Only for use in conjunction with type IV, IVs, VII injector/extractor handles.

Colour	For PCB depth mm	Packs of	Model No. RP	
			Guide rails	
			Top	Bottom
Grey	80	1	3687.936	3687.937
Yellow	80	1	3689.097	3689.098

**Accessories:**

Keys,
ESD contact,
Ground contact,
Extractor handles type IV, IVs, VII.

**Ground contact**

Ensures a plug-in ground connection.
UL-approved.

Material:

Die-cast zinc

Supply includes:
Grounding bush, contact spring.

Note:

Only suitable for use in conjunction with keyable guide rails for rear I/O assemblies.

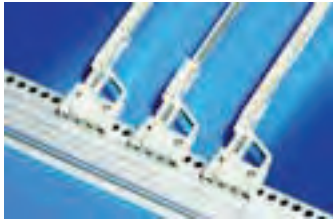
	Model No. RP	
	1 set	50 sets
Grounding bush and contact spring	3689.036	3687.951

**Also required:**

Assembly screws 3.5 x 12 mm,
packs of 50, Model No. RP 3684.109.



Guide rails



Keyable guide rails, aluminium, three-part

Keyable guide rails with aluminium centre part, for high mechanical loads. Suitable for 1.6 – 2.0 mm PCB thickness.

The guide rails are compiled from the following individual components:

- 1 2 end pieces
- 2 1 aluminium centre part
- 3 Insulating centre part(s)



1 End Pieces

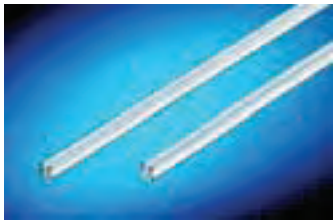
for three-part guide rails
For 1.6 – 2.0 mm PCB thickness.

Material:
Polycarbonate, base material to UL 94-V0

	Packs of	Model No. RP
	10 pairs	3685.265
front end piece	1	3685.790
rear end piece	1	3684.670

Note:

A front and a rear end piece is required for each guide rail.



2 Aluminium centre part

for three-part guide rails
For 1.6 – 2.0 mm PCB thickness.

Material:
Aluminium, unplated

For PCB depth mm	Model No. RP	
	Packs of = 1	Packs of = 10
220	3684.673	3685.260
280	3684.674	3685.261
340	3684.675	3685.262
400	3684.676	3685.263
1000	3684.672	–



3 Insulated centre part

for three-part guide rails
The insulated centre part is pushed onto the aluminium centre part. length: 60 mm.

Material:
Plastic, self-extinguishing to UL 94-V0

Packs of	Model No. RP
1	3684.677
10	3685.264

For PCB depth mm	Number of insulating strips required
160	1
220	2
280	3
340	4
400	5



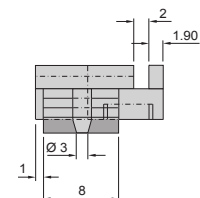
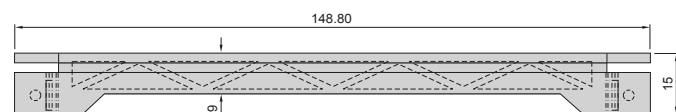
Guide rails for 4.4"

Snap-fastening guide rails to accommodate PCBs and assemblies with a height of 4.4".

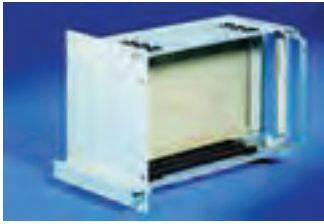
Material:
Macrolon

Colour:
Dark grey

For PCB depth mm	Packs of	Model No. RP
160	1	3686.990



Guide rails



Guide rails

for box type plug-in units
For PCB depth 1.6 mm.
For insertion into covers with vent slots
(from 12 HP).

Material:
Noryl

For PCB depth mm	Packs of	Model No. RP
160	10	3606.140
220	10	3606.200



Air block panel

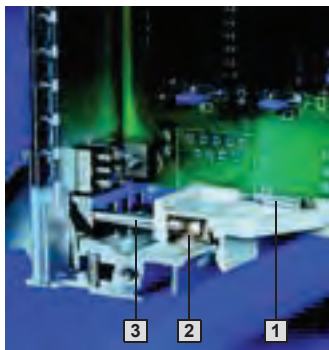
for unused slots
To conceal unused slots and prevent unwanted
airflow. The air block panel simply snaps into
position on the guide rails.

Material:
Polycarbonate, self-extinguishing to UL 94-V0

Colour:
Blue

Note:
Not suitable for use in conjunction with guide rails
with 1/2 HP offset.

For keyable guide rails	Packs of	Model No. RP
160 mm	1	3687.924



ESD contacts

for installation in keyable guide rails.
To discharge static charges.

1 ESD contact for guide rail
For permanent direct discharge via the PCB.

2 ESD contact for front panel
To discharge static charges in conjunction
with the ESD pin. For insertion into the end
piece of the guide rail.

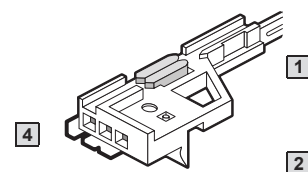
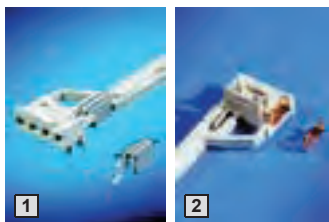
3 ESD pin

4 Keys

Material:
1 Stainless steel
2 Tin bronze, tin-plated

ESD contact for	Packs of	Model No. RP
Guide rail	50	3684.204
Front panel	50	3684.205

Note:
Only for use in conjunction with extractor handle
with ESD pin (type IV, IVs, VII),



Keying/PCB ejectors

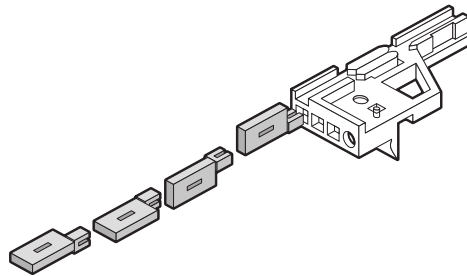
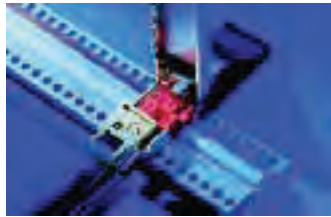


Keys

Keys are used for coding of board-type plug-in units and prevent the use of assemblies in incorrect slots. The keys are inserted into the chambers of the keyable guide rails and the injector/extractor handles, types IV, IVs and VII (4 positions are possible). This produces 64 keying combinations per guide rail. When keying the top and bottom guide rail, 4096 potential combinations are possible.

Standards:
IEEE 1101.10, IEC 60 297-5-104

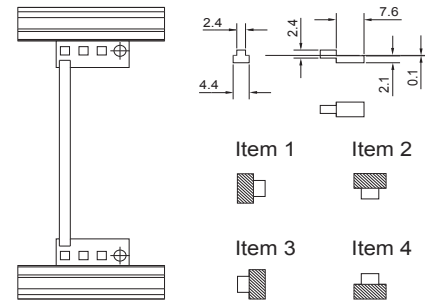
Material:
Plastic, PBTP, basic material to UL 94-V0



Colour	Packs of	Model No. RP
Grey	100	3684.325
Red	100	3684.326

+ Accessories:

Keying tool



Keying tool

For simple assembly of keys. Up to 3 coding keys may be fitted simultaneously. An integral alignment pin makes positioning easier.

Material:
Polycarbonate, base material to UL 94-V0

Packs of	Model No. RP
1	3687.956



PCB ejector/retainer

The two-piece PCB ejector is used for securing and extracting PCBs without front panels. The base section may also be used separately for board retention only.

Material:
Polycarbonate, base material to UL 94-V0



	Packs of	Model No. RP
1 PCB ejector/retainer	10	3687.014
2 PCB retainer	10	3687.052

Covers for subracks

**Cover**

For subrack Ripac EASY

- Perforated or solid
- Optional screw-fastening to the side panels with mounting clips for additional support

Cover plates, version 1, slide-in:

The cover plates simply slide into the front horizontal and rear horizontal rails for backplane/connector mounting.

**Cover plates, version 2, slide-in/screw-fastened:**

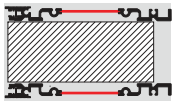
In this application example, additional horizontal rails for backplane mounting are fitted at the rear. The horizontal rails for backplane/connector mounting are available for top-mounting.

The cover plates simply slide into the front and rear horizontal rails for backplane mounting.

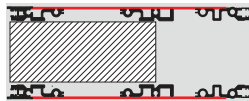
Material:
Aluminium

Supply includes:
2 covers

Version 1



Version 2

**Version 1**

HP	For side panel depth mm	Model No. RP	
		Perforated	Solid
84	175	3634.685	3634.675
84	235	3634.690	3634.680

Version 2

HP	For side panel depth mm	Model No. RP	
		Perforated ¹⁾	Solid ¹⁾
84	175	3634.650	3634.625
84	235	3634.655	3634.630
84	295	3634.660	3634.635
84	355	3634.665	3634.640
84	415	3634.670	3634.645



Custom versions available upon request.

**Also required:**

¹⁾ Assembly screws, packs of 100, Model No. RP 3634.233.

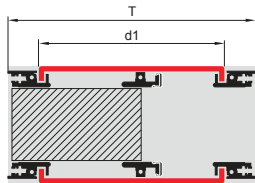
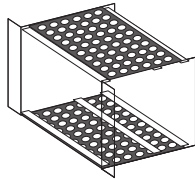
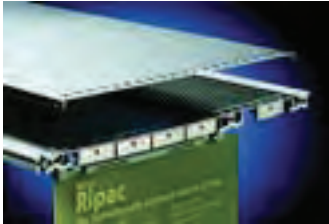
**Accessories:****Mounting clips**

Packs of	Model No. RP
50	3634.450

Assembly screws for mounting clips

Packs of	Model No. RP
100	3634.420

Covers for subracks



Covers version 1

For all Ripac Vario, Ripac Vario EMC, Ripac Compact and Ripac Vario Mobil subracks.

To cover the overall subrack depth (EMC application) or as connector protection.

- Flat design for top and bottom
- Optionally solid or slotted
- For mounting on the subrack side panel with the aid of mounting blocks.

Material:

1.0 mm aluminium, unplated, hole diameter 4 mm in slotted version

Each set includes:

2 covers,
8 mounting blocks @ 28.5 mm,
24 assembly screws

Each individual unit includes:

1 cover

Note:

For EMC applications, additional mounting blocks must be fitted across the entire subrack depth.

HP	For side panel depth (T) mm	Cover depth (d1) mm	Model No. RP			
			Individual unit ¹⁾		Set	
			slotted	solid	slotted	solid
21	225	192	3687.618	3687.620	-	-
21	285	252	3687.619	3687.621	-	-
42	175	142	3684.957	3687.626	-	-
42	225	192	3687.623	3687.627	-	-
42	245	212	3684.958	3687.628	-	-
42	285	252	3685.642	3687.629	-	-
84	175	142	3684.681	3684.680	3685.245	3685.250
84	225	192	3684.694	3684.683	-	-
84	235	202	3685.851	3685.813	-	-
84	245	212	3684.695	3684.684	3685.246	3685.251
84	285	252	3684.696	3684.685	-	-
84	295	262	3685.855	3685.814	-	-
84	305	272	3685.852	3684.686	3685.247	3685.252
84	345	312	3684.698	3684.687	-	-
84	365	332	3685.853	3684.688	3685.248	3685.253
84	405	372	3684.700	3684.689	3685.249	3685.254
84	465	432	3684.701	3684.691	-	-
84	525	492	3684.702	3684.692	-	-
84	585	552	3684.703	3684.693	-	-

Custom versions available upon request.

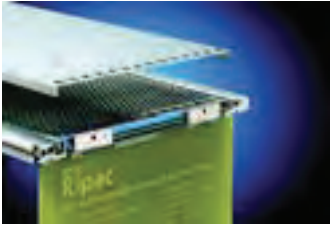
Also required:

¹⁾ Mounting blocks.

¹⁾ EMC gaskets for cover plates.

¹⁾ Assembly screws, packs of 100, Model No. RP 3684.233.

Covers for subracks

**Covers version 2**

For all Ripac Vario, Ripac Vario EMC, Ripac Compact and Ripac Vario Mobil subracks.

To cover the PCB depth.

- Flat design for top and bottom
- Optionally solid or slotted
- For mounting on the subrack side panel with the aid of mounting blocks.

Material:

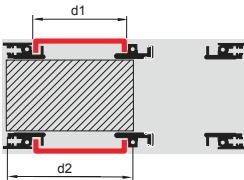
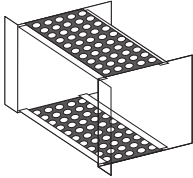
1.0 mm aluminium, unplated, hole diameter 4 mm in slotted version

Each set includes:

2 covers,
8 mounting blocks @ 28.5 mm,
24 assembly screws

Each individual unit includes:

1 cover.



HP	For PCB depth (d2) mm	Cover depth (d1) mm	Model No. RP			
			Individual unit ¹⁾		Set	
			slotted	solid	slotted	solid
21	160	142	3687.630	3687.634	-	-
21	220	202	3687.631	3687.635	-	-
42	160	142	3684.957	3687.626	-	-
42	220	202	3687.633	3687.637	-	-
42	280	262	3687.638	3687.639	-	-
84	160	142	3684.681	3684.680	3685.245	3685.250
84	220	202	3685.851	3685.813	-	-
84	280	262	3685.855	3685.814	-	-
84	340	322	3685.856	-	-	-
84	400	382	3685.857	-	-	-



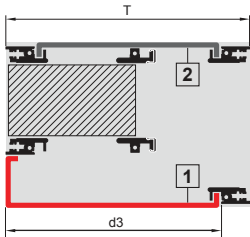
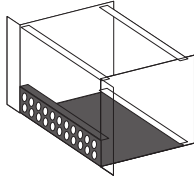
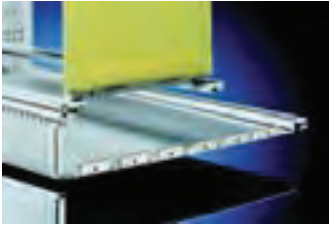
Custom versions available upon request.

**Also required:**

¹⁾ Mounting blocks.

¹⁾ Assembly screws, packs of 100, Model No. RP 3684.233.

Covers

**Covers version 3**

For all Ripac Vario, Ripac Vario EMC and Ripac Vario Mobil subracks.

To cover the overall subrack depth (EMC application).

- Cover with 1U edge fold (item 1), to conceal the 1U area in the subrack
- A version 1 flat cover (item 2) is additionally required
- Optionally slotted or solid front
- Suitable for subracks 4U (3 + 1), 7U (6 + 1)
- For mounting on the subrack side panel with the aid of mounting blocks.

Material:

1.0 mm aluminium, unplated, hole diameter 4 mm in slotted version

Note:

For EMC applications, mounting blocks must be fitted across the entire subrack depth.

HP	For side panel depth (T) mm	Cover depth (d3) mm	Model No. RP	
			slotted	solid
84	285	270	3684.720	3684.714
84	345	330	3684.721	3684.715
84	405	390	3684.722	3684.716
84	465	450	3684.723	3684.717
84	525	510	3684.724	3684.718
84	585	570	3684.725	3684.719

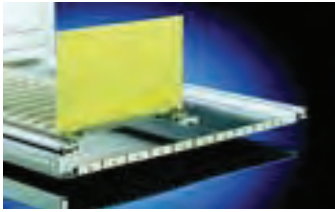


Custom versions available upon request.

**Also required:**

Mounting blocks.
EMC gaskets for covers.
Assembly screws.
packs of 100, Model No. RP 3684.233.
Cover, version 1

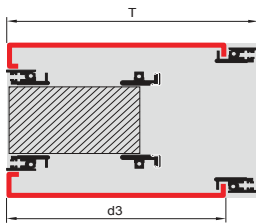
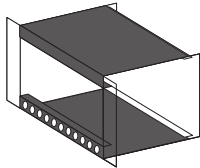
Covers

**Covers version 4**

For all Ripac Vario, Ripac Vario EMC and Ripac Vario Mobil subracks.

To cover the overall subrack depth
(EMC application).

- Cover top/bottom with $1/2$ U edge fold to cover the $1/2$ U section in the subrack
- Optionally slotted or solid front
- Suitable for subracks 4U (3 + 2 x $1/2$), 7U (6 + 2 x $1/2$)
- For mounting on the subrack side panel with the aid of mounting blocks.

**Material:**

1.0 mm aluminium, unplated, hole diameter 4 mm in slotted version

Note:

For EMC applications, mounting blocks must be fitted across the entire subrack depth.

HP	For side panel depth (T) mm	Cover depth (d3) mm	Model No. RP	
			slotted	solid
84	285	270	3684.732	3684.726
84	345	330	3684.733	3684.727
84	405	390	3684.734	3684.728
84	465	450	3684.735	3684.729
84	525	510	3684.736	3684.730
84	585	570	3684.737	3684.731

Custom versions available upon request.

! Also required:

Mounting blocks.

EMC gaskets for covers.

Assembly screws.

packs of 100, Model No. RP 3684.233.

**Covers version 5**

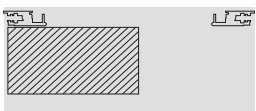
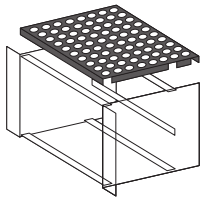
(snap-fastening)

For all Ripac Vario, Ripac Vario EMC and Ripac Vario Mobil subracks.

To cover the overall subrack depth or PCB depth.

Simple assembly:

- Side edge fold with half shears facilitates fast assembly (without mounting blocks) by simply snap-fastening
- Side notches for fitting horizontal rails in 160, 220 or 280 mm depth
- Optionally solid or slotted.

**Material:**

1.0 mm aluminium, unplated, hole diameter 4 mm in slotted version.

Supply includes:

2 gaskets.

HP	Position of side notches for horizontal rails mm	For side panel depth mm	Model No. RP	
			slotted	solid
21	160	175/185	3687.624	–
21	160/220	235	3687.692	–
42	160	175/185	3687.625	–
42	160/220	235	3687.677	–
42	160	245	3687.640	–
84	160	175/185	3687.641	3687.647
84	160	245	3687.642	3687.648
84	160/220	235	3687.643	3687.649
84	160/220	285	3687.644	3687.650
84	160/220	305	3687.645	3687.651
84	160/220/280	345	3687.646	3687.652

Custom versions available upon request.