



CONTEG DATA SHEET

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PREMIUM RACK SERIES

RHF SERIES 19" HIGH LOAD RACKS

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The RHF rack is designed to cope with the increased loads of today's IT equipment within the data center, equipment room and network or telecommunications closet. The RHF's ultra heavy duty, all welded construction and 1500kg load rating mean that it's possible to accommodate the heaviest equipment within a standard rack footprint. The RHF comes with the full range of doors, panels and locks. Available in 42U height, 600 and 800mm wide with 1000mm depth, the RHF is designed to work with CONTEG's air-flow optimization solutions and flexible cable management which means that the RHF can be tailored to suit your needs.



COLOR SAMPLER:

RAL 9005

RAL 7035

DESCRIPTION

Sizes

- Height: 42U
- Width: 600, 800mm
- Depth: 1000mm

Construction

- Welded frame construction
- 2.5mm sheet steel

Load rating

- 1500kg balanced load

19" vertical extrusions

- 2 pairs of sliding 19" vertical L-type (600mm) or P-type (800mm) extrusions (extends installation height of the rack for 12U)
- C-type extrusions optionally (800mm)

IP rating

- Standard IP20
- IP40 when solid doors or panels applied
- Optionally up to IP54
- A/C ready - IP54 when A/C unit installed

Colors

- Standard RAL 7035 and 9005
- Optionally other colors

Front door

- Vented door - perforation rate 83%
- Swivel handle lock - DIN profile, universal key 333, multipoint; optionally half profile cylinder or combination lock single or multipoint (other locks on request)
- Door opening angle 180°
- Easy re-hanging to open on right or left
- Optionally glass, steel, perforated, glass with perforation, vertically divided door

Rear door

- Vented door - perforation rate 83%
- Swivel handle lock - DIN profile, universal key 333, multipoint; optionally half profile cylinder or combination lock single or multipoint (other locks on request)
- Optionally can be replaced by full range of front doors and panels

Side panels

- Removable with locks

Top plate

- Single-piece design, removable
- 4" (100mm) rounded cable entry in every corner covered by plastic cap
- 300x100mm cable entries covered with removable sheet steel blank panels

Bottom plate

- Segmented design, removable
- 4" (100mm) rounded cable entry in every corner covered by plastic caps
- 300x100mm cable entries covered with removable sheets steel blank panels

Feet

- Adjustable feet as standard; high load plinth optionally

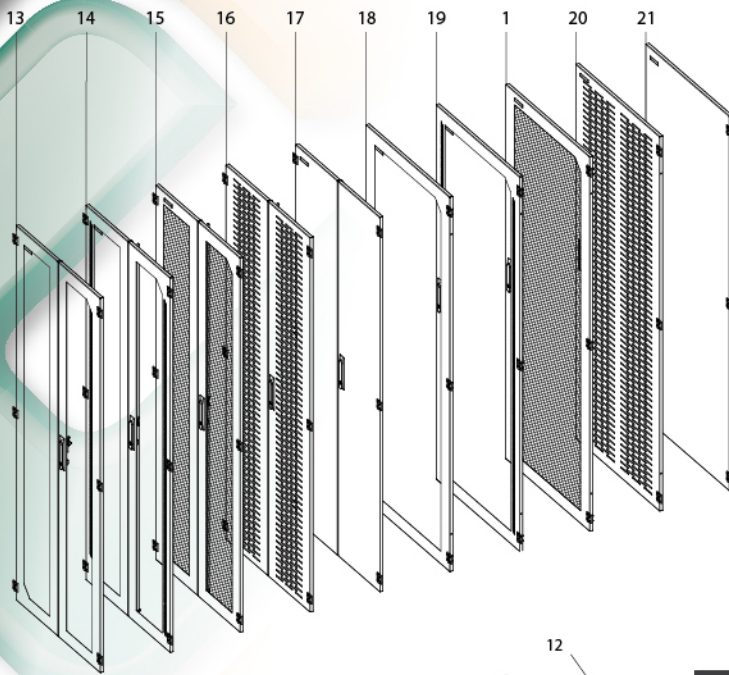
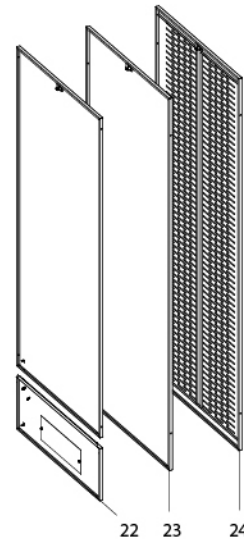
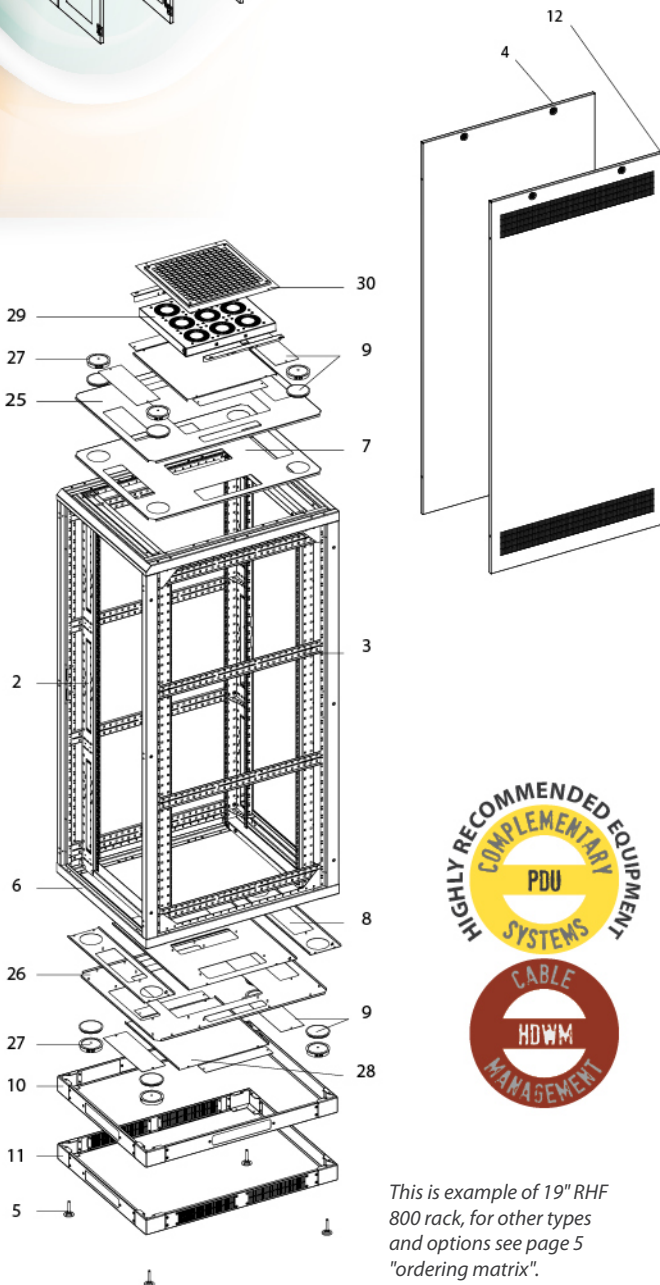
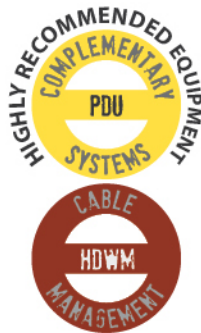
Adaptation

- Possibility to adapt for installation of 21" equipment (on request)
- Adaptor DP-RE-01 (ordered separately)

Other

- Racks can be installed in blocks by using DP-DR-UNI (ordered separately)
- A/C & cooling units compatible
- GND/earthing kit included





This is example of 19" RHF 800 rack, for other types and options see page 5 "ordering matrix".

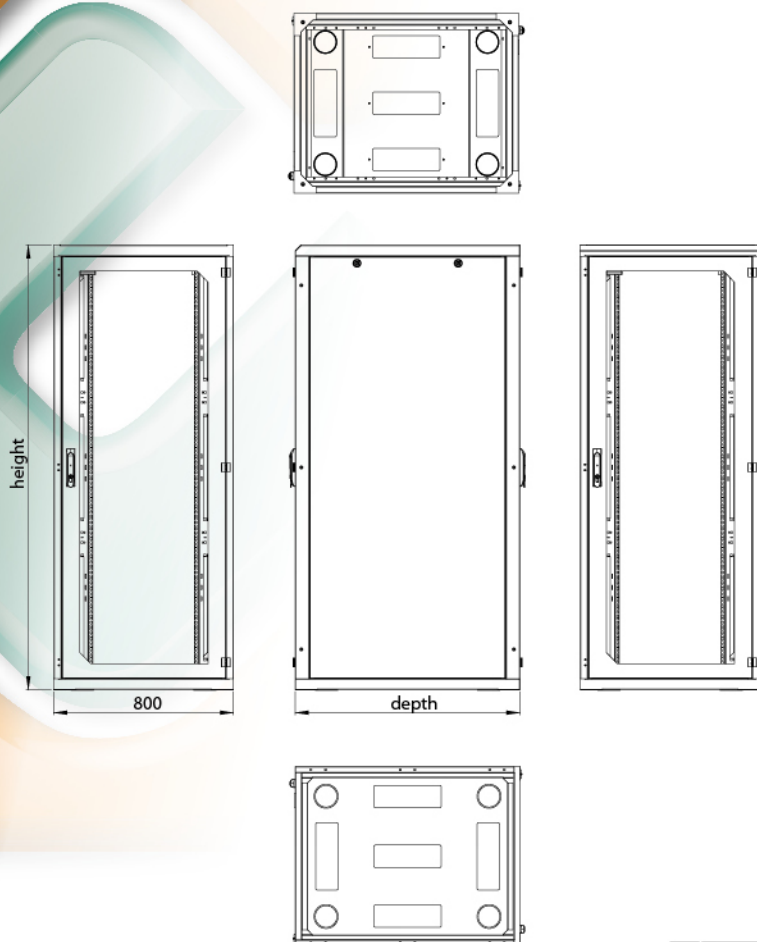
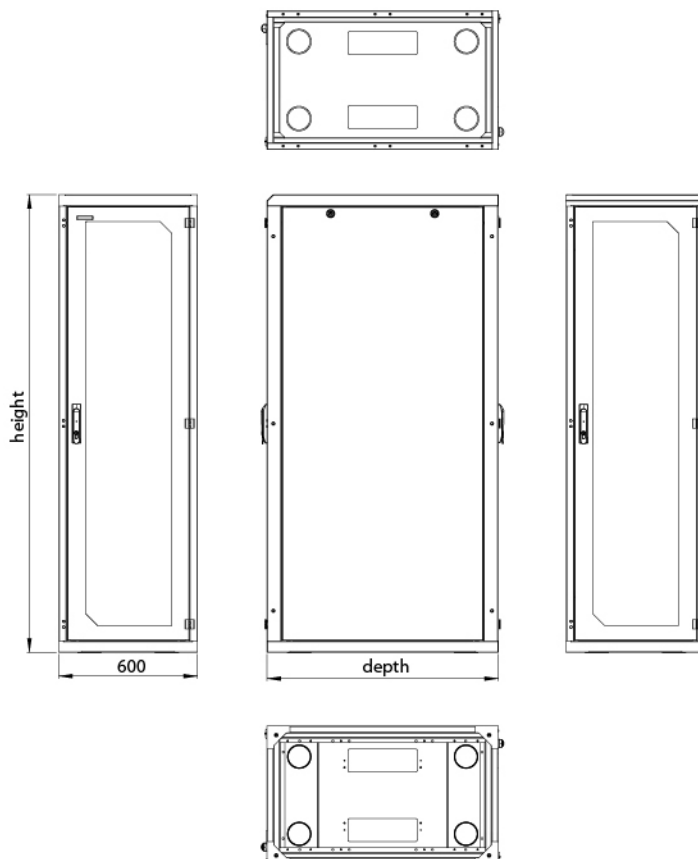
STANDARD EQUIPMENT

- 1 Front and rear vented door 83% with multipoint swivel handle lock
- 2 2 pairs of 19" sliding extrusions with U marking
- 3 Holders of vertical extrusions
- 4 1 pair of side panels with lock
- 5 Adjustable feet
- 6 Frame of rack
- 7 Removable F-design top plate with cable entry openings
- 8 Removable segmented bottom plate set (consists of C and F design plates, may differ for other rack footprints) with cable entry openings
- 9 Plastic caps and blank panels for cable entry openings
- GND/earthing kit
- 28 mounting kits
- BONUS: 2 rounded cable grommets with brush DP-KP-RB4 for free

OPTIONAL EQUIPMENT (EXAMPLES)

- 10 Plinth
- 11 Plinth with filter
- 12 1 pair of side panels with perforation
- 13 Vertically divided glass door *
- 14 Vertically divided glass door with perforation *
- 15 Vertically divided vented door 83% *
- 16 Vertically divided perforated sheet steel door *
- 17 Vertically divided sheet steel door *
- 18 Glass door
- 19 Glass door with side perforation
- 20 Perforated sheet steel door
- 21 Sheet steel door
- 22 Rear panel with module
- 23 Rear panel - 1 piece
- 24 Rear panel - perforated
- 25 Removable B-design top plate with cable entry and ventilation openings
- 26 Removable B-design top plate (used for bottom) with cable entry and ventilation openings
- 27 Rounded cable grommet with brush
- 28 Blank panels for ventilation openings
- 29 Ventilation unit
- 30 Connecting kit with filter for ventilation unit

* not available for 600mm wide racks, requires multipoint lock



Cable entries - racks 800x1000

- 5 openings (300x100) in both, top and bottom, plates
- 4 openings 4" (100mm) in both, top and bottom, plates

Cable entries - racks 600x1000

- 2 openings (300x100) in both, top and bottom, plates
- 4 openings 4" (100mm) in both, top and bottom, plates

All cable entries are covered by blanking panels or plastic caps.

An individual plates can be defined.

Code	H in Units	Load rating in kg	Dimensions in mm				Dimensions including packing in mm			Gross weight in kg
			H*	W	D	Useful depth	H	W	D	
RHF-42-60/100	42	1500	1978	600	1000	990	2160	640	1040	143
RHF-42-80/100	42	1500	1978	800	1000	990	2160	840	1040	171

* Height in mm without feet; for feet add 16-45mm

Note: All dimensions in mm



ORDERING AND SHIPPING INFORMATION: Configure the rack, which will meet your requirements. The below displayed ordering matrix will help you in creating the part number. As soon as you have the part number, please contact your distributor of CONTEG products. Please note, that all **RHF RACKS ARE DELIVERED FULLY ASSEMBLED** and palletized!

FOLLOW THE STEPS TO SET UP DESIRED RHF RACKS PRODUCT CODE!

HEIGHT			
1	Code	Height in U	External height in mm
	42	42	1978

WIDTH		
2	Code	Width in mm
	60	600
	80	800

DEPTH			
3	Code	Depth in mm	Useful depth in mm
	10	1000	990

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EXTRUSIONS			
Code	Front pair	Rear pair	Note
O	L	L	L type undivided extrusions - for racks 600mm wide only
P	P	P	P type undivided extrusions - for racks 800mm wide only, each extrusion with 3 additional 19" vertical positions, blank panels not included
C	C	C	C type undivided extrusions with rounded cable troughs covered with plastic caps - for racks 800mm wide only

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PLATES ¹			
Code	Top plate	Bottom plate	Note
A	B	B ²	Top and bottom single piece plates, for IP54
C	no top	B ²	Open top - for AC ready option (table 10)
E	F	XXX ³	Standard - one piece top plate, segmented bottom plate
F	F	no bottom ⁴	Open bottom - ready for installation on raised floor or plinth
X	no top ⁴	no bottom ⁴	Open top and bottom, for individual plates go to page 6-7

¹ For more information on plates go to page 6-7

² B design top plate (single-piece) is used also for bottom in options A and C

³ 600x1000: BHB, 800x1000: CHC

⁴ Open top or bottom results in no IP protection unless otherwise stated

FRONT DOOR	
5	Code Note
	O Without door ¹
	G Glass door
	S Sheet steel door
	P Perforated sheet steel door ²
	T Glass door with side perforation ³
	W Vented door (perforation rate 83%) ²
	A Vertically divided glass door ^{4*}
	B Vertically divided glass door with side perforation ^{6*}
	C Vertically divided sheet steel door ^{4*}
	D Vertically divided perforated sheet steel door ^{5*}
	F Vertically divided vented door (perforation rate 83%) ^{5*}
	Other

¹ no IP protection

² IP20 max.

³ IP30 max.

⁴ multipoint lock only

⁵ multipoint lock only, IP20 max.

⁶ multipoint lock only, IP30 max.

^{*} these options apply for RHF 800 only

REAR DOOR / PANEL	
7	Code Note
	O Without panel/door ¹
	G Glass door
	S Sheet steel door
	P Perforated sheet steel door ²
	T Glass door with side perforation ³
	W Vented door (perforation rate 83%) ²
	A Vertically divided glass door ^{4*}
	B Vertically divided glass door with side perforation ^{6*}
	C Vertically divided sheet steel door ^{4*}
	D Vertically divided perforated sheet steel door ^{5*}
	F Vertically divided vented door (perforation rate 83%) ^{5*}
	Y Rear panel - single piece ⁷
	R Rear panel - divided, with cable entry ⁷
	Z Perforated rear panel - single piece ⁸
	Other

¹ no IP protection

² IP20 max.

³ IP30 max.

⁴ multipoint lock only

⁵ multipoint lock only, IP20 max.

⁶ multipoint lock only, IP30 max.

⁷ Lock code U or X only

⁸ Lock code U or X only, IP20 max.

^{*} these options apply for RHF 800 only

FRONT DOOR LOCK	
6	Code Options
	1 Swivel handle with electronic lock, universal key
	3 Swivel handle with electronic lock, universal key, multipoint
	E Swivel handle with combination lock and universal key
	F Swivel handle with combination lock and universal key, multipoint
	G Swivel handle with combination lock, keyed different
	H Swivel handle with combination lock, keyed different, multipoint
	I Swivel handle with profile half cylinder, universal key
	J Swivel handle with profile half cylinder, universal key, multipoint
	K Swivel handle with profile half cylinder, keyed different
	L Swivel handle with profile half cylinder, keyed different, multipoint
	V Swivel handle DIN profile, universal key, EK 333
	W Swivel handle DIN profile, universal key, EK 333, multipoint
	Other

LOAD RATING		
12	Code	Load rate in kg Note
	F	1500 Balanced load

COLOR	
13	Code Note
	B RAL 7035 (light grey)
	H RAL 9005 (black)

IP RATING ¹	
10	Code Note
	0 IP00
	2 IP20
	3 IP30
	4 IP40
	5 IP54
	A A/C ready ²

¹ According to EN 60529

² Ready for AC unit installation; recommended when cooling is planned or required; IP54 when AC unit installed according to instructions

REAR DOOR / PANEL LOCK	
8	Code Options
	1 Swivel handle with electronic lock, universal key
	3 Swivel handle with electronic lock, universal key, multipoint
	E Swivel handle with combination lock and universal key
	F Swivel handle with combination lock and universal key, multipoint
	G Swivel handle with combination lock, keyed different
	H Swivel handle with combination lock, keyed different, multipoint
	I Swivel handle with profile half cylinder, universal key
	J Swivel handle with profile half cylinder, universal key, multipoint
	K Swivel handle with profile half cylinder, keyed different
	L Swivel handle with profile half cylinder, keyed different, multipoint
	V Swivel handle DIN profile, universal key, EK 333
	W Swivel handle DIN profile, universal key, EK 333, multipoint
	U Lock for rear panel, universal key
	X Lock for rear panel, keyed different
	Other

SIDE PANELS (BOTH SIDES) [*]	
9	Code Note
	O No side panels
	A 2 side panels, sheet steel, universal key
	B 1 side panel, sheet steel, universal key
	C 2 side panels, sheet steel, individual key
	D 1 side panel, sheet steel, individual key
	E 2 side panels, sheet steel with perforation, universal key
	F 1 side panel, sheet steel with perforation, universal key
	G 2 side panels, sheet steel with perforation, individual key
	H 1 side panel, sheet steel with perforation, individual key
	Other

^{*} open side/sides results in no IP protection; side panels with perforation result in protection rating IP20 max.

An example of the correct product code

RHF-42-80/10P-SWSVA-5AF-B

RHF series 19" high load racks



PREMIUM RACK SERIES PLATES

PREMIUM rack series gives you an unlimited flexibility when planning the final look of your rack, thanks to the interchangeable top and bottom plates. A portfolio of three different single-piece top plates and an even wider range of segmented bottom plates represent a unique interface between out-of-rack and in-rack cabling systems (like OptiWay and High Density Wire Managers). Simply choose the plate which design (quantity and type of cable entry openings) perfectly suits to your needs. All presented plates here are applicable for RHF, RSF and RDF rack series.

TOP PLATES

Top plates are designed as single-piece in three different design options. They are delivered either installed or separately in a carton box. Plate is always delivered including blanking panels/plastic caps.

Installation in the rack

Code *	RHF/RDF/RSF footprint in mm
CO-TI-60/80-X-Y	600x800
CO-TI-60/100-X-Y	600x1000
CO-TI-60/120-X-Y	600x1200
CO-TI-80/80-X-Y	800x800
CO-TI-80/100-X-Y	800x1000
CO-TI-80/120-X-Y	800x1200

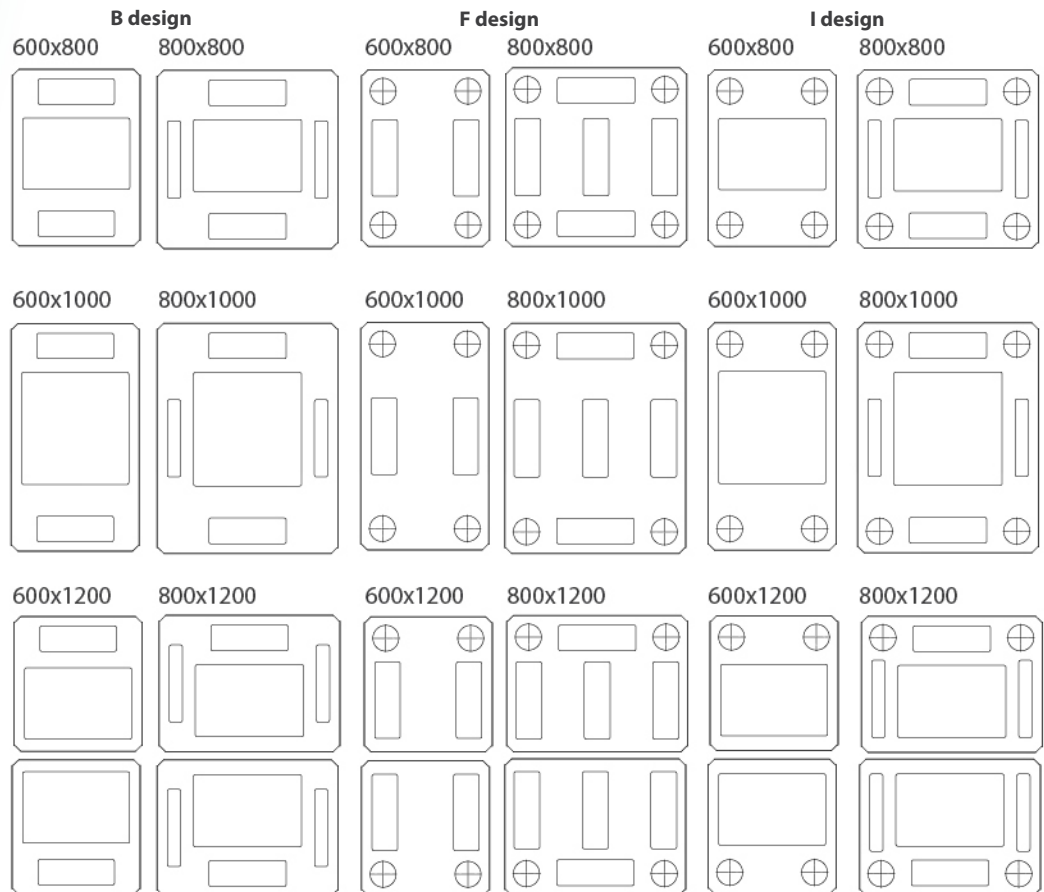
* To be ordered together with rack which you wish to have the plate installed in

Choose the design you like and write its code (B, I or F) instead of X. Write B for gray (RAL 7035) or H for black (RAL 9005) instead of Y.

Delivery in carton box

Code	RHF/RDF/RSF footprint in mm
CO-TU-60/80-X-Y	600x800
CO-TU-60/100-X-Y	600x1000
CO-TU-60/120-X-Y	600x1200
CO-TU-80/80-X-Y	800x800
CO-TU-80/100-X-Y	800x1000
CO-TU-80/120-X-Y	800x1200

Choose the design you like and write its code (B, I or F) instead of X. Write B for gray (RAL 7035) or H for black (RAL 9005) instead of Y.



B design is compatible with request for IP 54



BOTTOM PLATES

Bottom plates are designed as segmented. Full bottom plate (set) consists of 3 or 4 plates. They are delivered either installed or separately in a carton box. Plate is always delivered including blanking panels/plastic caps.

Installation in the rack

Code *	RHF/ RDF/RSF footprint in mm
CO-BI-60/80-XXX-Y	600x800
CO-BI-60/100-XXX-Y	600x1000
CO-BI-60/120-XXX-Y	600x1200
CO-BI-80/80-XXX-Y	800x800
CO-BI-80/100-XXX-Y	800x1000
CO-BI-80/120-XXX-Y	800x1200

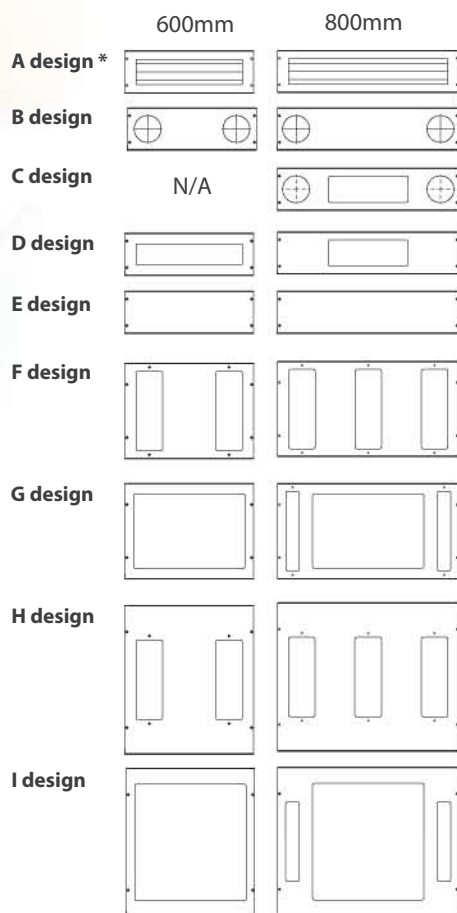
* To be ordered together with rack which you wish to have the plate installed in

Define the desired bottom plate set. Choose the design of plates you like and write its codes (A - I) in front to rear order instead of X. Write B for gray (RAL 7035) or H for black (RAL 9005) instead of Y. Any plate may be omitted (incomplete bottom plate sets applicable - results in no IP protection). Write 0 if the position should leave empty.

Delivery in carton box

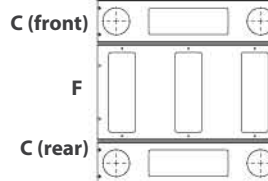
Code	RHF/RDF/RSF width in mm
CO-BU-60-X-Y	600
CO-BU-80-X-Y	800

Single plates can be delivered in carton boxes. Choose the design you like and write its code (A - I) instead of X. Write B for gray (RAL 7035) or H for black (RAL 9005) instead of Y.

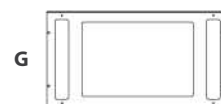


* plate is designed as divided with double brush

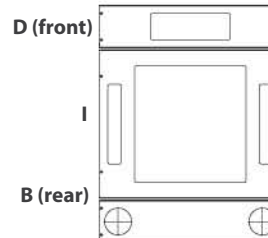
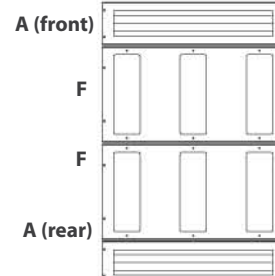
Example
CO-BI-80/80-CFC-X
installed in rack



Example
CO-BU-80-G-X
delivered in carton box



Example
CO-BI-80/100-DIB-X
installed in rack



A, B, C, D, E design: lateral plates

Complete bottom plate contains always two plates of A, B, C, D or E design. Combination of two different plates is allowed.

F, G design: central plates for 800 and 1200mm deep racks

Complete bottom plate contains always one (800mm deep racks) or two (1200mm deep racks) plates of F or G design. Combination of two different plates is allowed.

H, I design: central plates for 1000mm deep racks

Complete bottom cover contains always one plate of H or I design.

RECOMMENDED ACCESSORIES FOR PREMIUM PLATE CABLE ENTRIES

All cable entries are delivered with removable blanking panels or plastic caps. If removed, open cable entries result in no IP rating so water or dust can enter the rack. Sharp edges and poor management of entering cables can also negatively impact the service life of cables and their performance in data transmission. With products from the portfolio "cable protection in cable openings" both problems can be prevented.



300x100mm
cable entry openings,
covered by removable
sheet steel blank panel



300x50mm
cable entry openings,
covered by removable
sheet steel blank panel



4" (100mm)
cable entry openings,
covered by removable
plastic cap



420x280mm
ventilation unit openings,
covered by removable
sheet steel blank panel,
allow installation of 6-fan
unit



420x440mm
ventilation unit openings,
covered by removable
sheet steel blank panel,
allow installation of 9-fan
unit



Dimensions of brush openings:
width 60 - 76x400 mm
width 80 - 76 x600 mm

Brush dimensions:
width 60 - 60x400 mm
width 80 - 60x600 mm

Recommended accessories
Code
DP-KP-LEM
DP-KP-HCE
DP-KP-KAR
DP-KP-KAR4
DP-KP-KAR4-D

Recommended accessories
Code
DP-KP-RB4



These openings are used for installation of ventilation unit. For more information on ventilation units and related products go to www.conteg.com



Example of installed plates and cable opening in a rack