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NETcell
OPTIMIZED FOR USE AS A DATA CENTER

NETcell is the tailor-made suit among apra's 19" cabinet systems. Individually configurable and easily expandable, it can be adapted to almost any requirement. For example, the combination of a basic and a bayed system enables an especially flexible, space-saving design. The system is particularly con-vincing due to its unique, large-volume cable management system. Despite the design as an open rack, the NETcell system can be completely bulkheaded and enclosed in rows of cabinets, so that a highly efficient air conditioning is implemented.
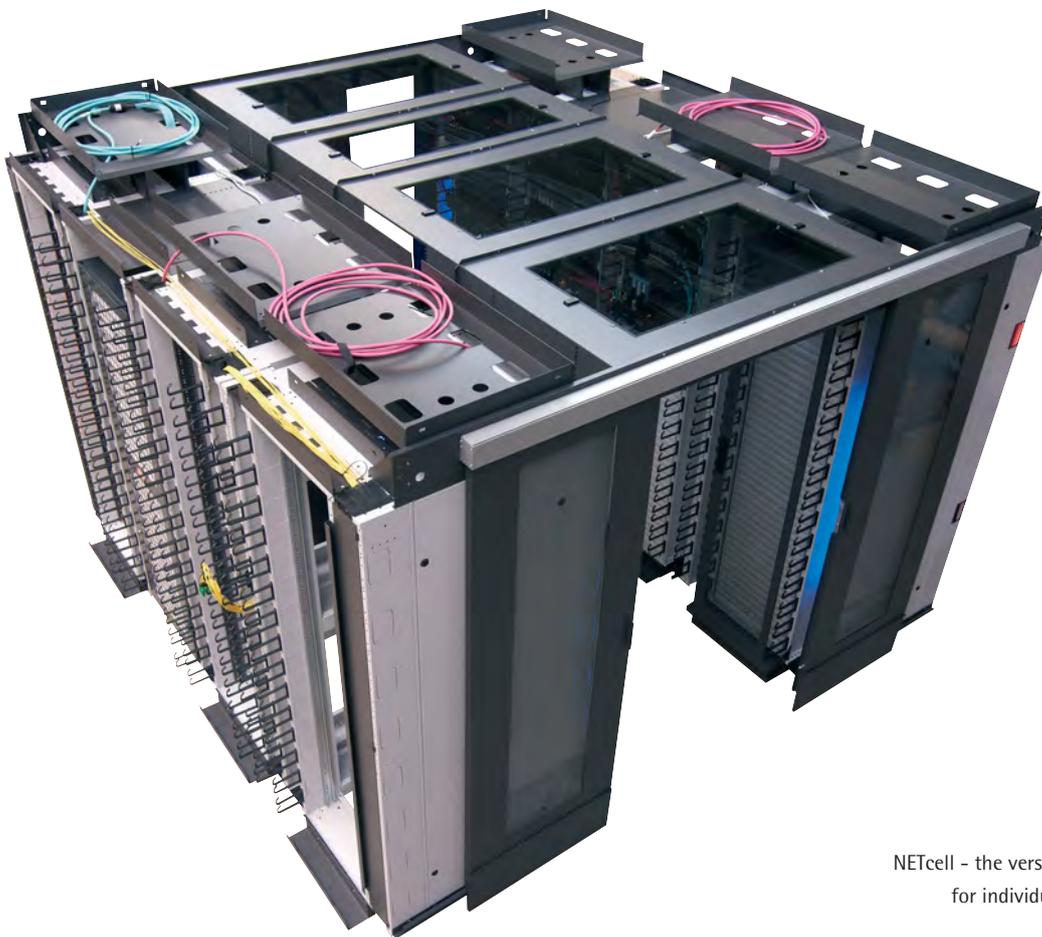
NETcell - the versatile rack system
for individual requirements

NETcell Highlights

completely demountable	Cable ducts for large-volume guidance of Data and power cables
individually configurable	
Basic system with integrated cable ducts over the entire cabinet heighte	Energy efficient Air conditioning through the use of enclosure components
Overlength trough (can be used as route system)	due to stable frame construction also suitable for high loads (1500 kg)
Modular cable trays for the separate routing of data and power cables	registered

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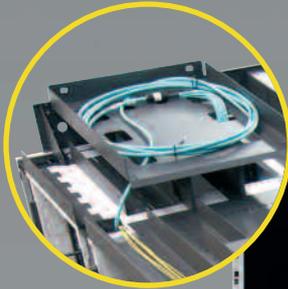
Overlength tray
For on-top cabling

Cable trough for
horizontal guiding of cable material

Radius limiter for
cable management Inside
the vertical cable ducts

Flexible cable routing
Over cable trays

NETcell

completely dismountable,
flexible cable management,
payload up to 1500 kg,
utility model protected

www.apra.de

Configure your own cabinet system
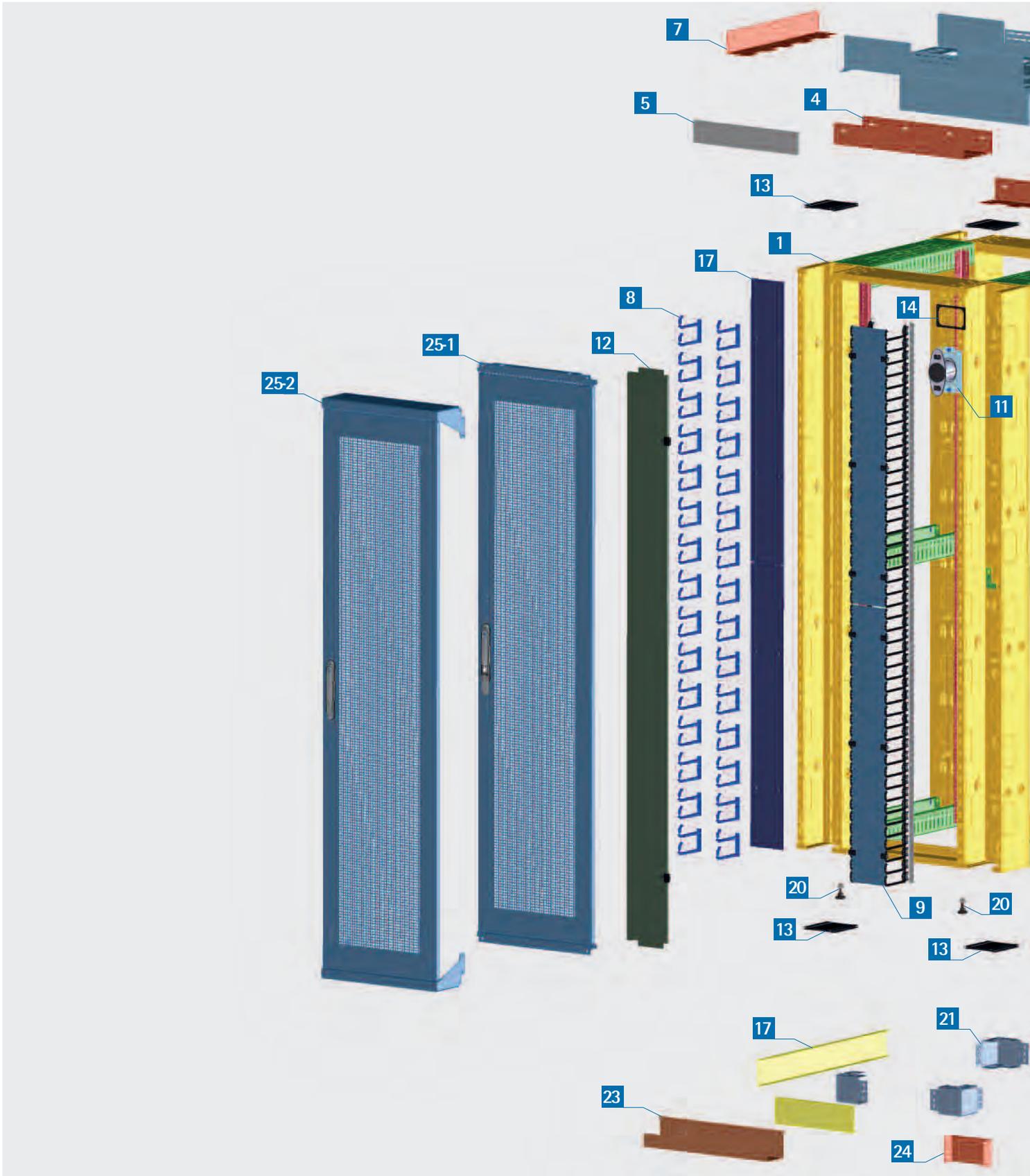
Select the required cabinet components step by step:
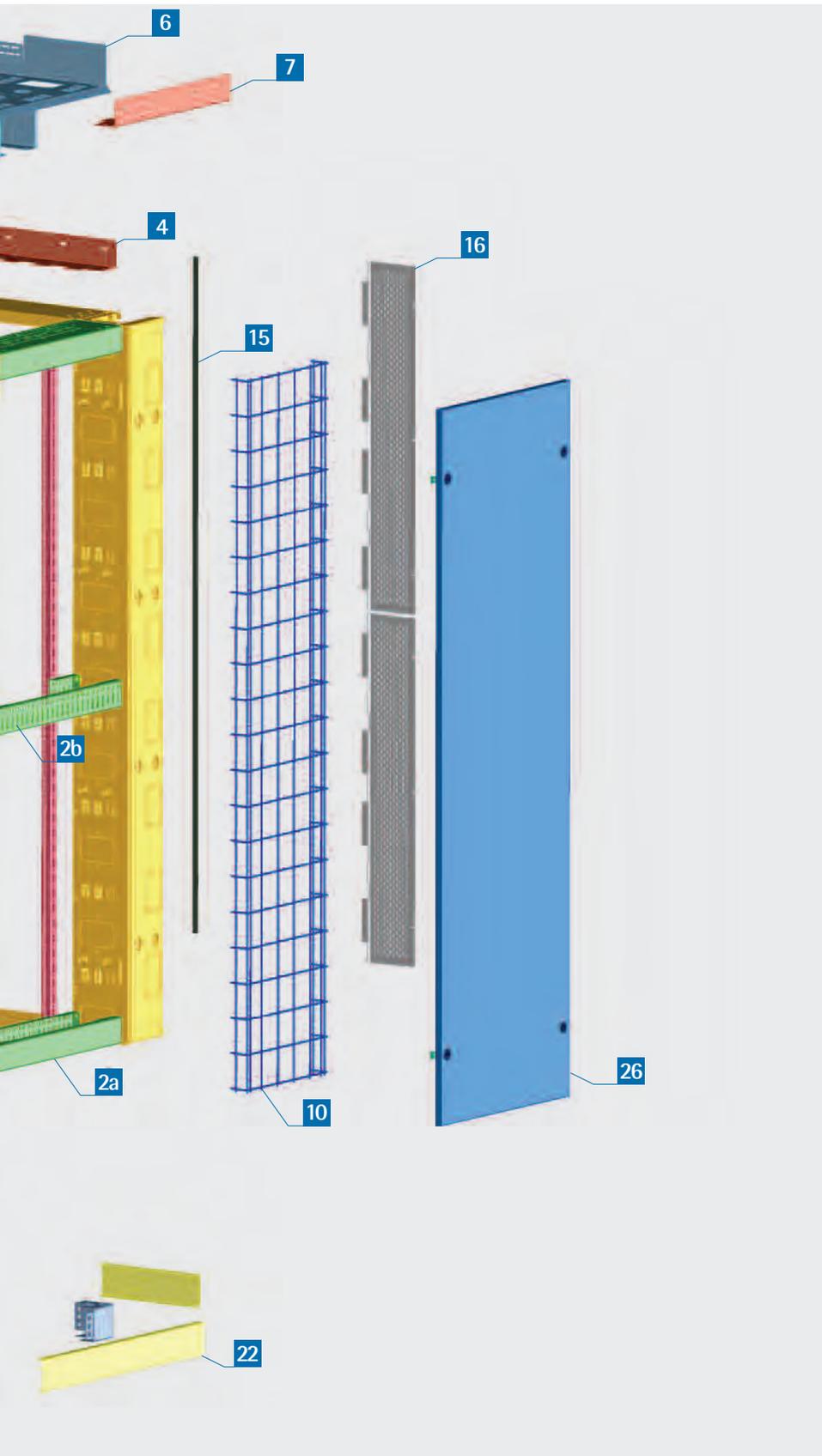
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1a Basic system "900", dismountable

The cabinet system consists of two identical frames with integrated cable ducts, cross bars and a 19" extension level with end covers at the front.

Basic system "900" consists of:
- frame with integrated cable ducts (2 ×)
- cross bars (cable tray) (6 ×)
- 19" extension (2 ×)
- end cover for 19" grid (2 ×)

Load capacity:
1500 kg (static)
Delivery:
mounted

Top view
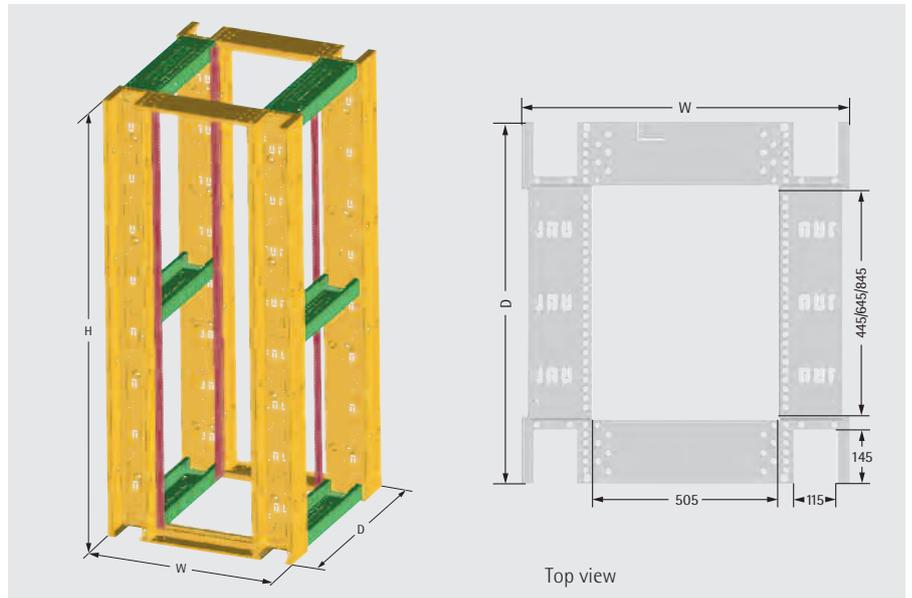
| Dimensions W x H mm	U	D mm	Finish	Order no.
900 x 2130	46	800	RAL 7035	583-908-12
900 x 2130	46	1000	RAL 7035	583-910-12
900 x 2130	46	1200	RAL 7035	583-912-12
900 x 2130	46	800	RAL 9005	583-908-82
900 x 2130	46	1000	RAL 9005	583-910-82
900 x 2130	46	1200	RAL 9005	583-912-82

1b Connector system "600", dismountable

The connector system consists of two identical frames, crossbars and 19" extension with end covers at the front.

Connector System "600" consists of:
- frame (2 ×)
- crossbars (6 ×)
- 19" extension (2 ×)
- end cover for 19" grid (2 ×)

Load capacity:
1500 kg (static)
Delivery:
mounted

Top view
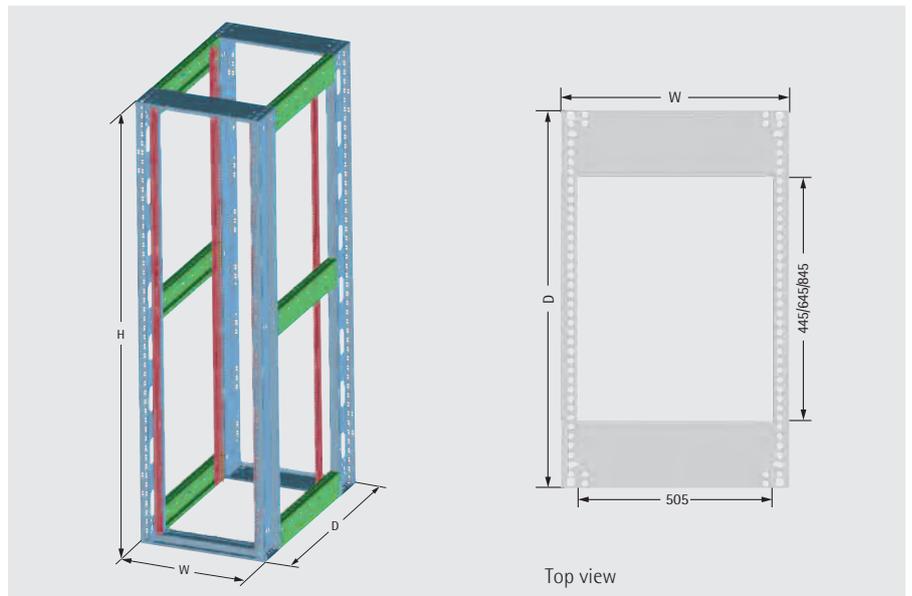
| Dimensions W x H mm	U	D mm	Finish	Order no.
600 x 2130	46	800	RAL 7035	583-608-12
600 x 2130	46	1000	RAL 7035	583-610-12
600 x 2130	46	1200	RAL 7035	583-612-12
600 x 2130	46	800	RAL 9005	583-608-82
600 x 2130	46	1000	RAL 9005	583-610-82
600 x 2130	46	1200	RAL 9005	583-612-82

2a Cable tray

- for cable routing
- for mounting between front and rear frame of the basic system
- H x W: 80 x 175 mm

Material:
sheet metal

D mm	Finish	Order no.
800	RAL 7035	583-000-01
800	RAL 9005	583-005-01
1000	RAL 7035	583-000-69
1000	RAL 9005	583-005-69
1200	RAL 7035	583-000-02
1200	RAL 9005	583-005-02
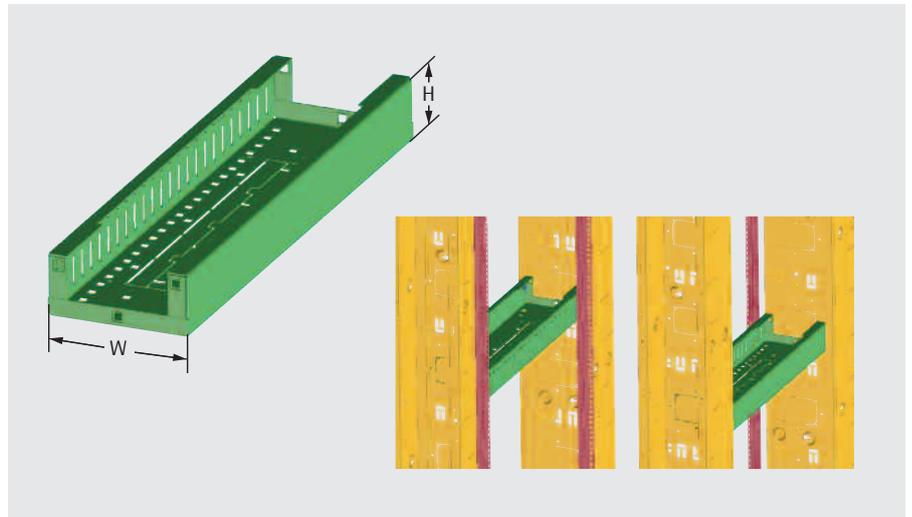
2b Cable tray for grid gutter

- for mounting in the middle area between the front and rear frame of the base system
- simple attachment of the grid gutter (Pos 10)
- allows fast and flexible cabling over the entire height of the system
- H x W: 80 x 175 mm

Material:
sheet metal

| D mm	Finish	Order no.
800	RAL 7035	583-002-84
800	RAL 9005	583-005-99
1000	RAL 7035	583-002-81
1000	RAL 9005	583-005-97
1200	RAL 7035	583-002-83
1200	RAL 9005	583-005-93
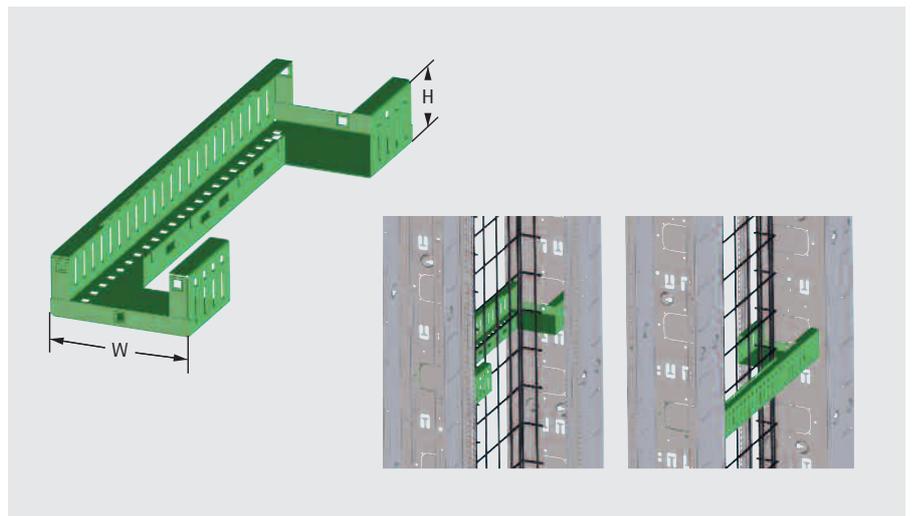
3 Cable entry rail

- for defined cable entry (bending radius) from above into the basic system
- deflection radius r = 27 mm

Material:
sheet metal

Finish	Order no.
RAL 7035	583-002-76
RAL 9005	583-002-77

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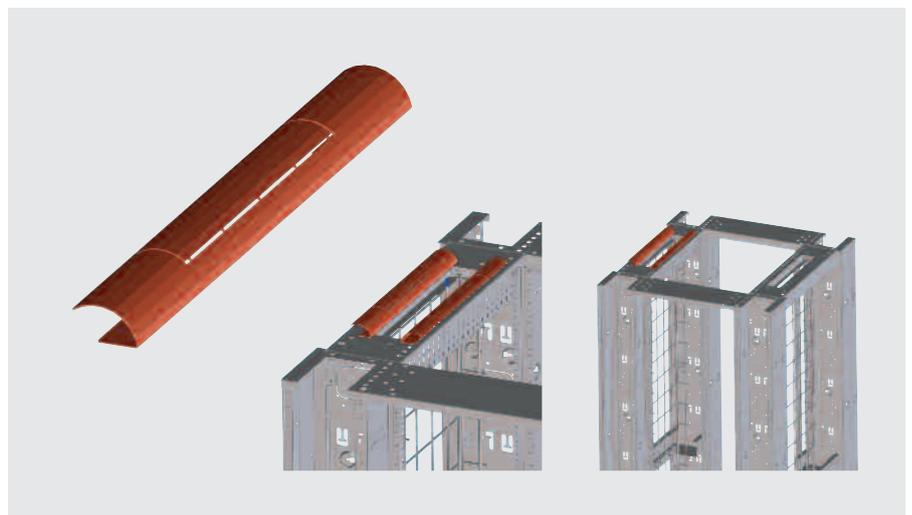
4 Cable routing angle bracket

- for basic and connector system
- to set up a cable duct system on the cabinet system

Material:
sheet metal
Dimensions (H x W x D):
80 x 570 x 100 mm

Finish	Order no.
RAL 7035	583-000-73
RAL 9005	583-005-73

View 2 pieces
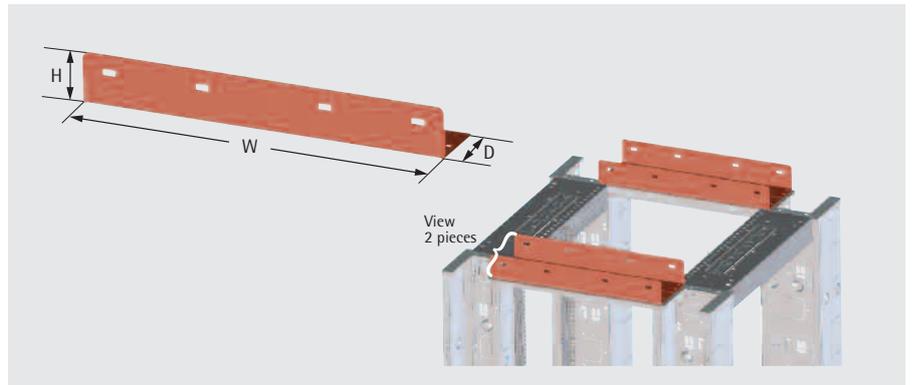
5 Connecting cover for cable routing angle bracket

- for basic and connector system
- for installation in cabinet rows
- conceals space between two cable routing angle brackets on the front end of the systems

Material:
sheet metal

Finish	Order no.
RAL 7035	583-000-74
RAL 9005	583-005-74
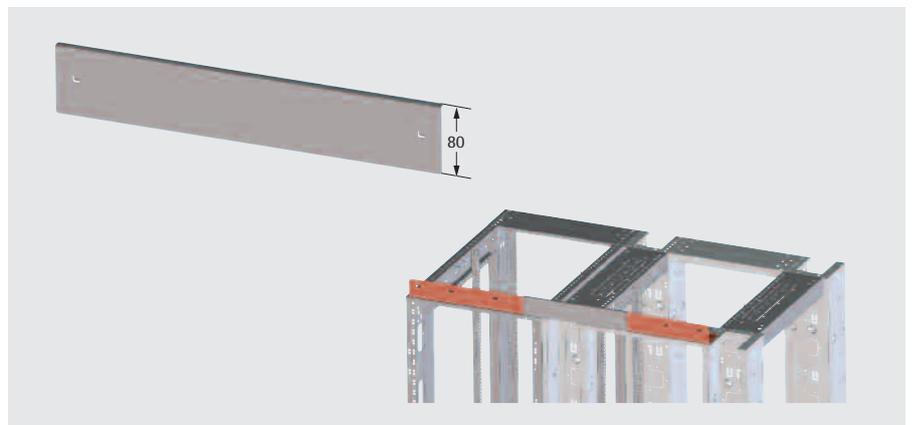
6 Cable tray for excess length of cable

- for basic and connector system
- for storage of excess cable length or as trunking system for row install of cabinets
- suitable for accommodation of the cable tray [34] [a]

Material: sheet metal
**Dimensions (H x W x D):**
250 x 600 / 900 x 580 mm

W mm	Finish	Order no.
900	RAL 7035	583-000-72
600	RAL 7035	583-000-94
900	RAL 9005	583-005-72
600	RAL 9005	583-005-94
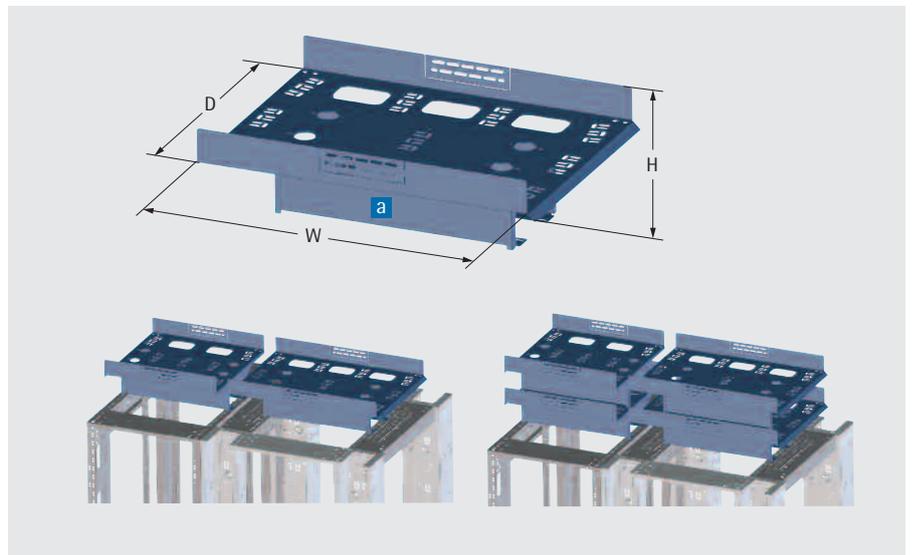
7 End cover for excess cable tray

- for covering the excess cable tray on the front ends

Material:
sheet metal

Finish	Order no.
RAL 7035	583-000-73
RAL 9005	583-005-73
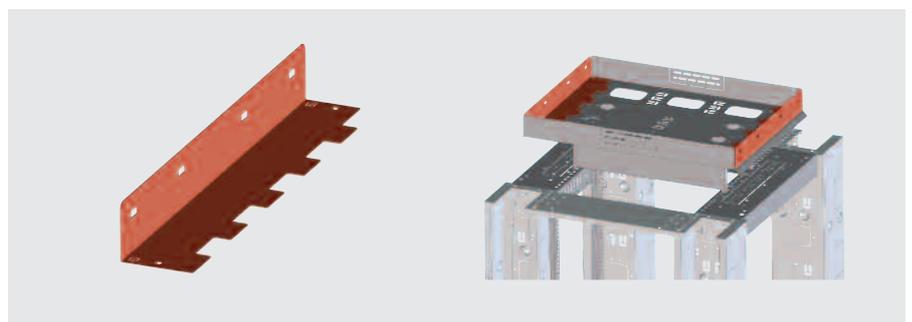
8 Cable clamp set

- for basic system
- to be clipped onto the front of the cable duct
- H x D: 55 x 115 mm
- set = 30 pieces (1 cable duct)

Material:
plastic, black

Order no.
583-001-12
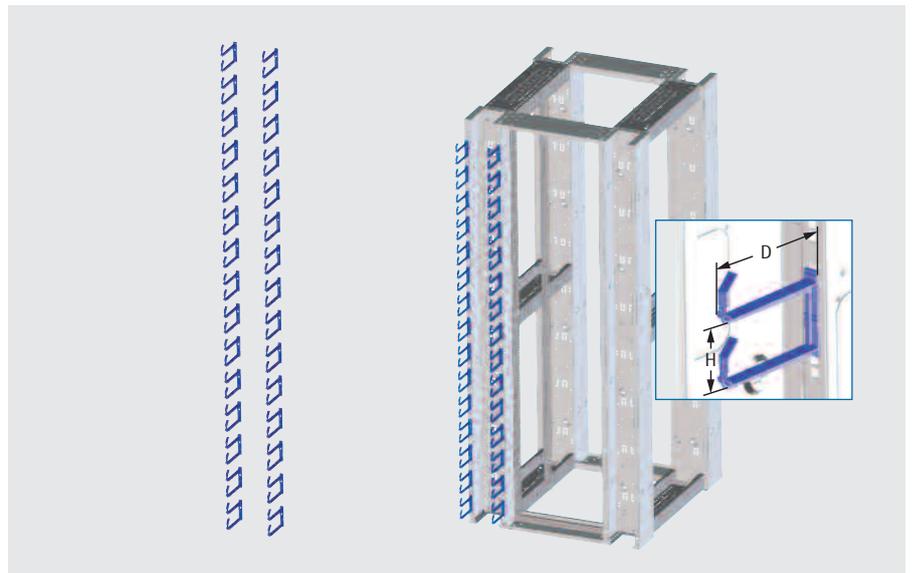
9 Cable manager vertical 46 U

- for basic system
- with adapter rails for front mounting on cable duct
- temple height H = 44 mm (1 U), temple depth T = 138 mm
- Set contains 92 pieces of cable clamps, incl. adapter rails and cable duct flaps (corresponds to 1 cable duct)

Material:
adapter rails: steel sheet, cable ties: plastic (black)

Finish	Order no.
RAL 7035	583-004-47
RAL 9005	583-005-47
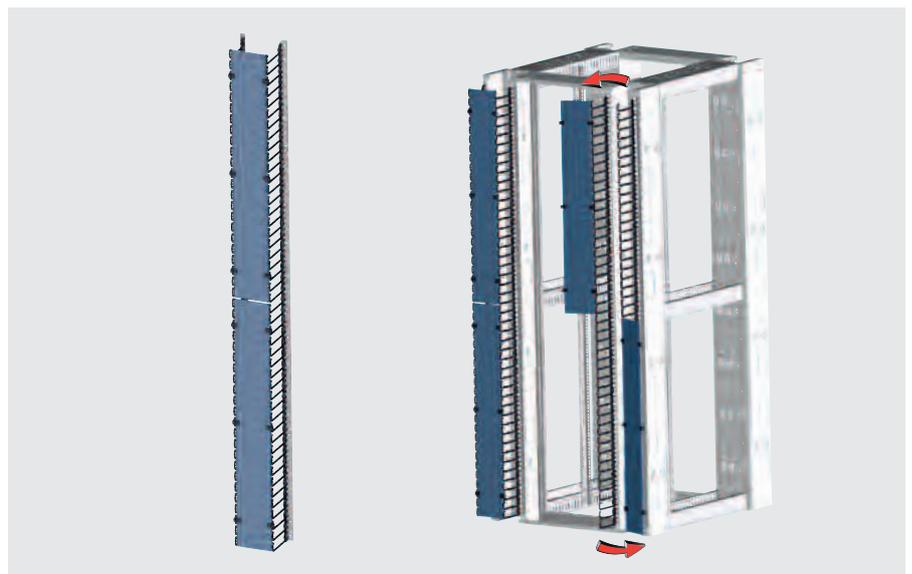
10 Grid gutter

- serves the structured and flexible cable routing in the rack
- Mounting laterally in the base system over the entire cabinet height
- H = 2100 mm

Material:
metal, galvanised
Dimensions (H x W x D):
2100 x (200 / 300 / 400) x 60 mm

Description	Order no.
W = 200 mm	640-037-61
W = 300 mm	640-037-63
W = 400 mm	640-037-64
mounting set	640-037-80

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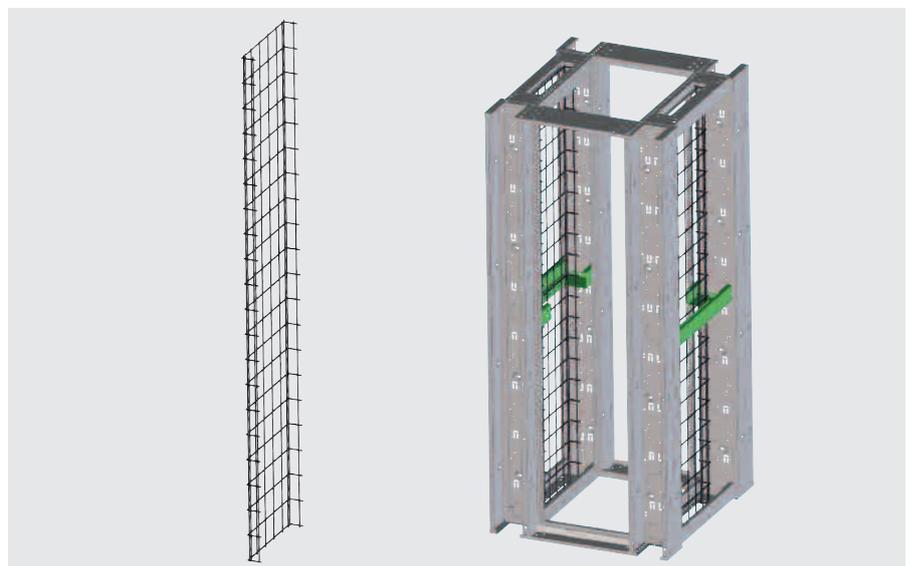
11 Radius limiter

- for the structured and protected routing of fiber optic and copper cables in the cable ducts
- deflection radius r = 35mm

Material:
mounting plate: steel sheet, radius limiter: plastic (black)

Order no.
583-002-66
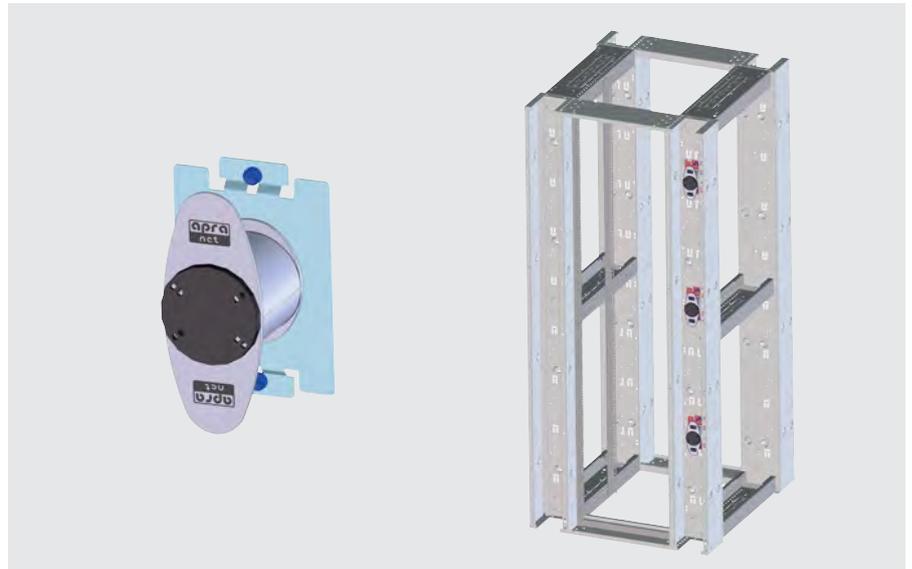
12 Hinged panel

- for basic system, W = 900 mm
- for covering the cable duct
- with hinges for quick opening and closing (180°)

Material:
sheet metal

| Finish	Order no.
RAL 7035	583-000-83
RAL 9005	583-005-83

13 Brush set for cable duct

- for basic system
- to be used on the top and bottom on the cable duct
- set = 4 pieces

Material:
plastic, black

Order no.
583-001-15

14 Edge protection frame

- for basic and connector system
- for circumferential mounting to the frame
- set = 10 pieces

Material:
black plastic, UL94 V-0

Order no.
583-001-10
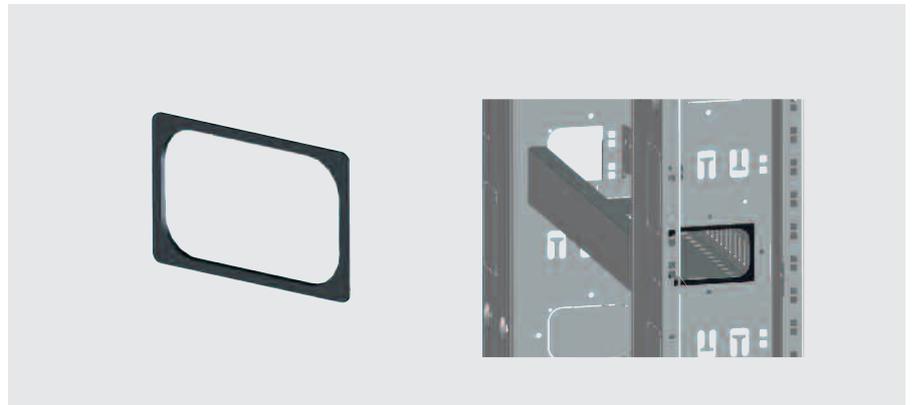
15 Universal guide rail for cable duct

- for basic system
- mounting possible on all sides of the cable duct (max. 2 per side)
- for individual mounting of PDU, cable clamps etc.
- attachment of components with sliding nuts (4 pcs. included in scope of delivery)
- Length: 2 m

Material:
metal, galvanised

| Description	Order no.
Universal guide rail	583-001-11
Sliding nuts M5 (set = 10 pieces)	630-015-11

16 Mounting plate

- for basic system
- for the mounting of PDU, radii delimiter, etc.
- mounting in cable duct (front)
- W = 160 mm, H = 880 mm
- up to two mounting plates per cable duct can be mounted

Material:
sheet metal

Finish	Order no.
RAL 7035	583-000-98
RAL 9005	583-005-98
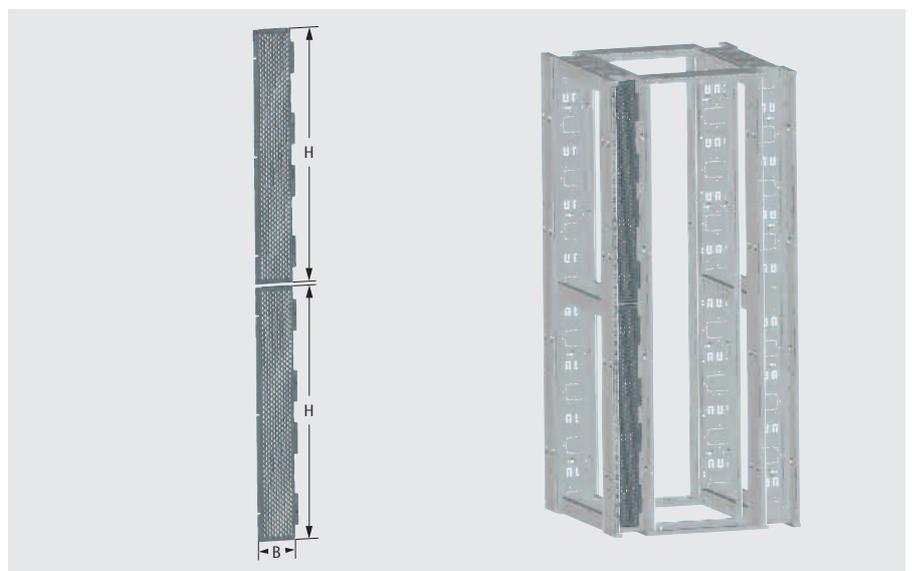
17 Locking panel for cable duct

- to partition cooling corridor of cable duct
- mounted on the rear of cable ducts (can only be used for standard assembly of crossbars)
- set = 2 pieces (1 duct)

Material:
sheet metal

Finish	Order no.
RAL 7035	583-000-96
RAL 9005	583-005-96
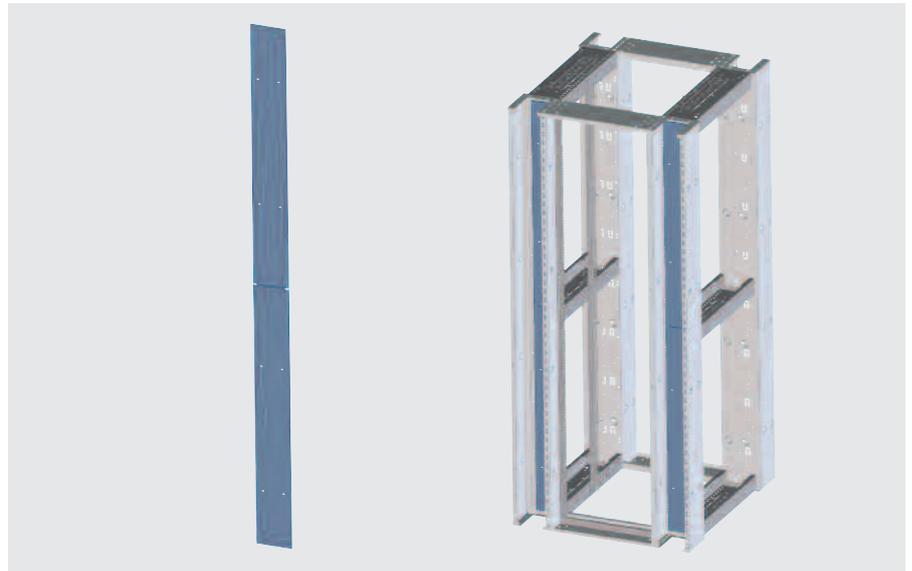
18 Extending canal set

- for extending the baying system "600"
- structured cable routing over the entire cabinet height
- expandable with hinged cover (item 12) or cable manager (item 9)
- Set = 2 mounting channels 46 U, incl. mounting material

Material:
sheet metal
Dimensions (H x W x D):
2130 x 150 x 175 mm

Finish	Order no.
RAL 7035	583-001-82
RAL 9005	583-005-65
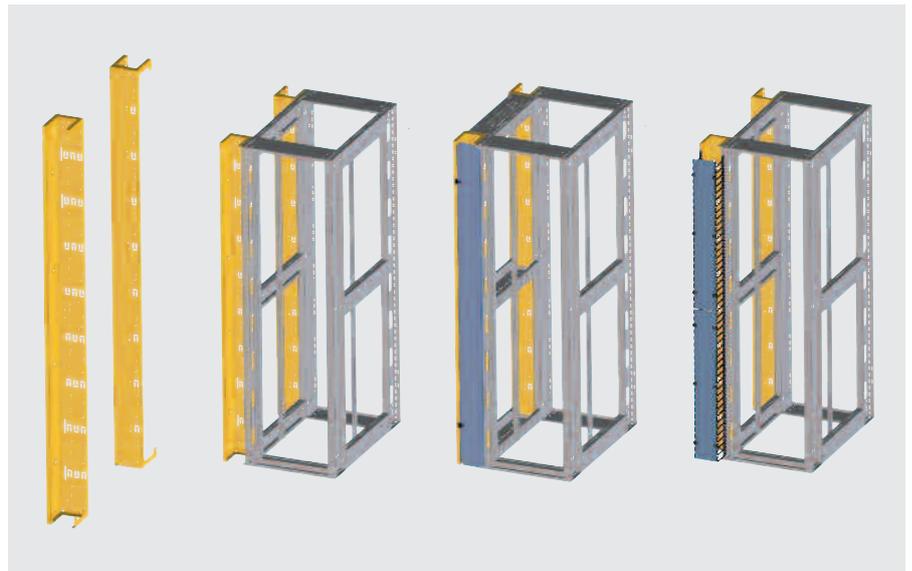
19 Cabinet connector set

- to connect basic or connector cabinets

Order no.
583-000-97

20 Adjusting feet set

- for basic and connector system
- to be screwed onto the cabinet frame
  or to the base corners
- set = 4 pieces

Material:
steel, plastic

Description	Order no.
Mounting on rack	500-001-28
Mounting on base	318-026-02

21 Base corner set

- for basic and connector system
- H = 100 mm
- set = 4 pieces

Material:
sheet metal

Colour	Order no.
RAL 7035	318-100-00
RAL 9005	318-200-00
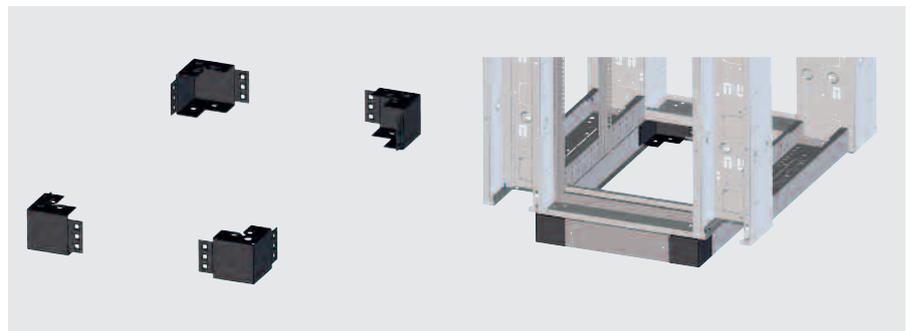
22 Base covers, solid

- for basic and connector system
- 4 covers (and four base corners,
  item 21) complete one base

Material:
sheet metal

Type	W/D	Finish	Order no.
1	900	RAL 7035	318-100-10
	900	RAL 9005	318-100-18
	600	RAL 7035	316-100-10
	600	RAL 9005	316-200-10
2	800	RAL 7035	318-100-20
	800	RAL 9005	318-100-23
	1000	RAL 7035	318-100-30
	1000	RAL 9005	318-100-61
	1200	RAL 7035	318-100-50
	1200	RAL 9005	318-100-51

23 Cable routing tray

- for basic and connector system
- to be used with base corner set
- for cable entry

Material:
sheet metal

Finish	Order no.
RAL 7035	583-000-70
RAL 9005	583-005-70
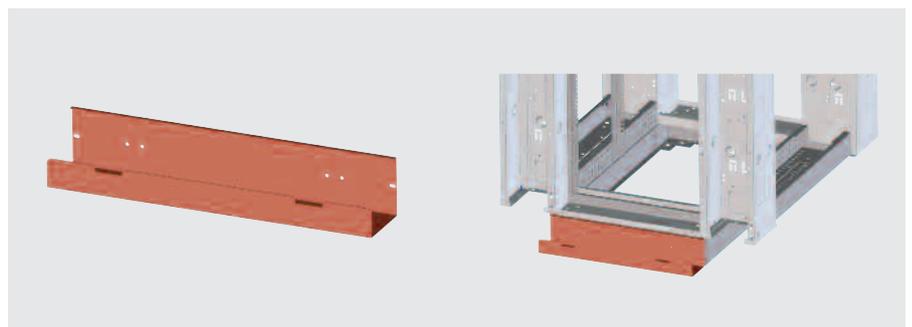
24 Socket infill panel

- for basic system
- conceals space between two cabinet frames when mounting on cabinet base

Material:
sheet metal

Finish	Order no.
RAL 7035	583-000-71
RAL 9005	583-005-71

25 Door ventilated (83 % perforated)

- type 1: flush-mounted with frame
- type 2: flush-mounted with the cable clamp
- with turning lever lock and push button opening (profile half cylinder possible)

Material: sheet metal

W/D mm	Finish	Type	Order no.
900	RAL 7035	1	583-000-76
900	RAL 9005	1	583-005-76
600	RAL 7035	1	583-000-76
600	RAL 9005	1	583-005-76
600	RAL 7035	2	583-000-54
600	RAL 9005	2	583-005-54
900	RAL 7035	2	583-000-80
900	RAL 9005	2	583-005-80

Type 1　　　Type 2
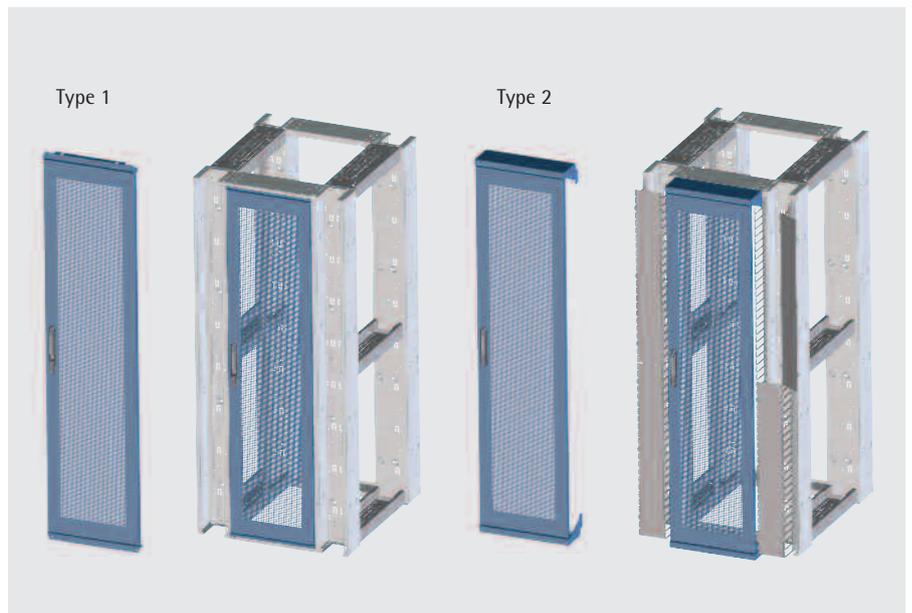
26 Side panel

- with 4 sash fasteners ("double-bit" 5 mm mechanism)

Material:
sheet metal

| D mm	Finish	Order no.
800	RAL 7035	583-000-04
800	RAL 9005	583-005-14
1000	RAL 7035	583-000-84
1000	RAL 9005	583-005-84
1200	RAL 7035	583-000-07
1200	RAL 9005	583-005-07

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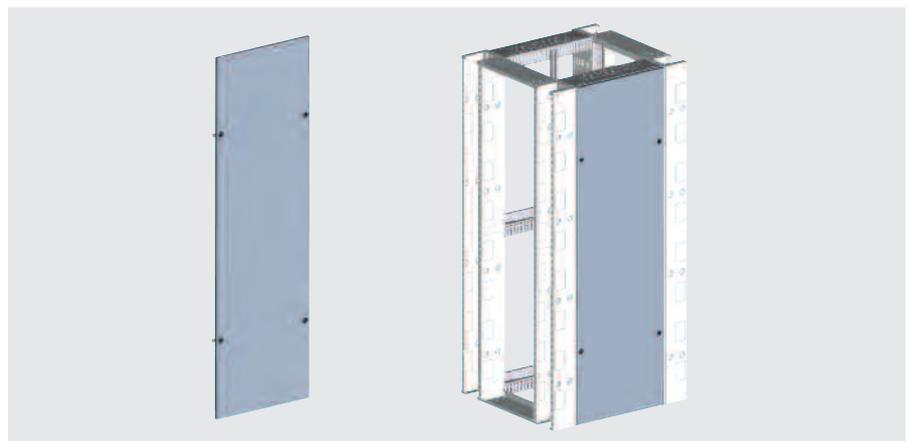
27 Locking systems for doors and side panel

- **profile semi-cylinder** L = 40 mm with EK 333 closing for turning lever lock on door (item 25)
- **adapter** for installing a profile semi-cylinder with L = 40 mm acc. to DIN 18252 (item 25)
- **sash fastener** with EK 333 closing for locking the side panel (item 26)
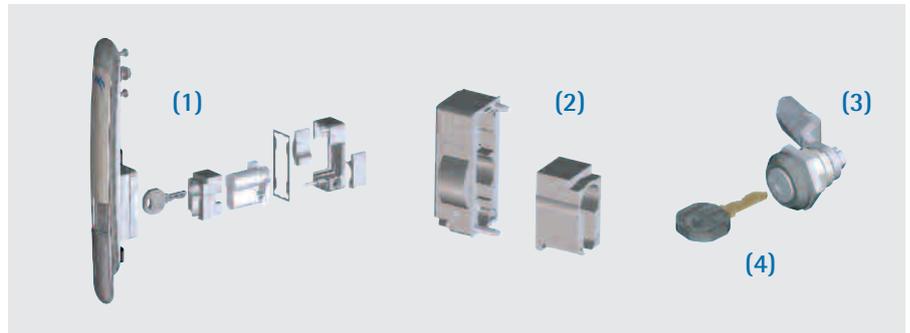
Description	Order no.
profile semi-cylinder with EK 333 closing **(1)**	676-316-00
Adapter for profile semi-cylinder **(2)**	676-316-10
Sash fastener **(3)**	676-181
Spare key EK 333 **(4)**	676-200

28a Corridor cover with tough-enend safety glass

- for easy mounting on the cabinet system
- with 19" 3 U mounting section for power supplies, light systems etc. (item 28b)
- with toughened safety glass
- for cooling corridor with width 1.2 m

Material:
sheet metal, toughened safety glass

| W mm	Finish	Order no.
900	RAL 7035	583-000-75
900	RAL 9005	583-005-75
600	RAL 7035	583-000-63
600	RAL 9005	583-005-63
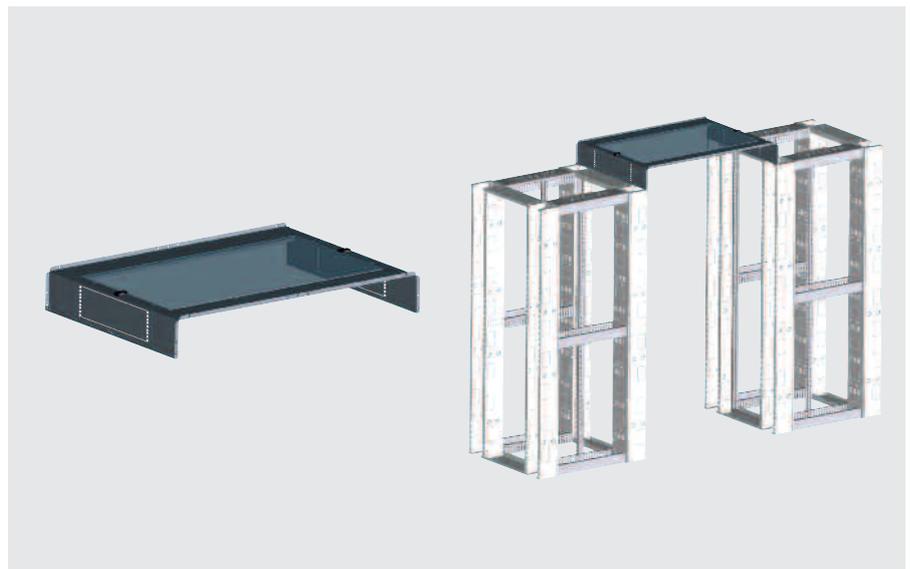
28b Corridor Cover with LED panel

- easy installation on the cabinet systems
- for optimal illumination of the cold aisle
- LED panel with 24 W, 6000 K, 2400 lm
- incl. 19" mounting panel (3 U) for mounting power distributions etc.
- for aisle width 1200 mm

Material:
corridor cover: sheet metal, LED panel: aluminium / acryl

W mm	Finish	Order no.
900	RAL 7035	583-002-52
900	RAL 9005	583-005-52

Technical changes and errors reserved. Pictures may be different from the product

29 Sliding door system

- to complete a NETcell cold / warm aisle containment
- for cooling corridor with width 1.2m
- height adjustment towards floor is possible

Material:
sheet metal, toughened safety glass

Model	Finish	Order no.
manuell	RAL 7037	583-000-59
manuell	RAL 9005	583-005-59
elektrisch	RAL 7037	583-001-13
elektrisch	RAL 9005	583-001-16

## 30 Extension set synchronous run for sliding door system

- synchronous opening or closing of both door leaves
- to extend the manual sliding door system

Order no.
583-003-36

31 Extension set synchronous run with linear return

- synchronous opening of both door leaves with independent closing
- mechanical return system
- high energy efficiency, since the cold / hot aisle is always closed automatically
- to extend the manual sliding door system

| Order no. |
|---|
| 583-003-62 |
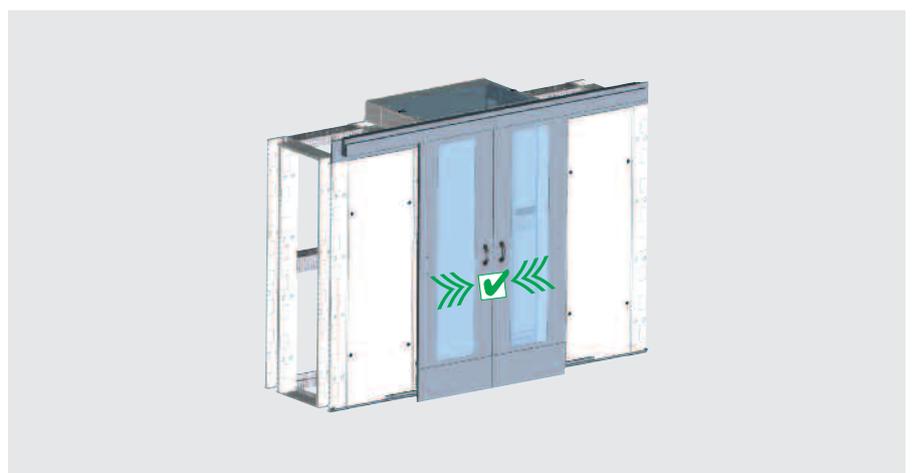
32 Swing door system

- to complete a NETcell cold / warm aisle containment
- opening possibility in both directions
- 180 ° opening angle, optimal access
- ensuring pressure equalization in the cold aisle (for example, when the extinguishing system is triggered)
- high energy efficiency, as the cold aisle is always closed automatically
- protection of persons in dangerous situations (escape door)
- for aisle width 1200 mm

Material:
Mounting frame: sheet steel, door profiles: aluminium, tempered glass
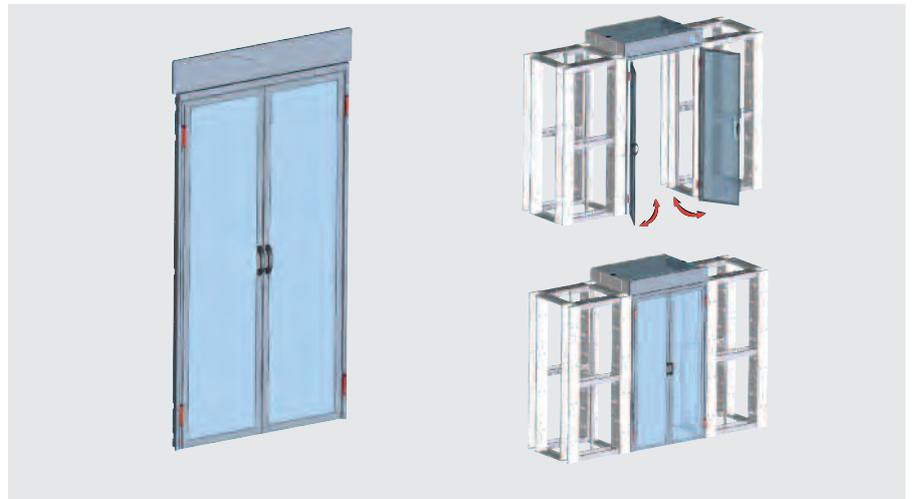
Finish	Order no.
RAL 7037 / aluminium look	583-004-15
RAL 9005 / aluminium look	583-004-50

33 Corridor back wall set

- to finish a NETcell cold / warm aisle with a passage width of 1200 mm
- horizontally split mounting
- Set = 2 rear panels, incl. mounting brackets and completion of the corridor cover

Material:
sheet metal

| Finish	Order no.
RAL 7035	583-003-90
RAL 9005	583-005-26
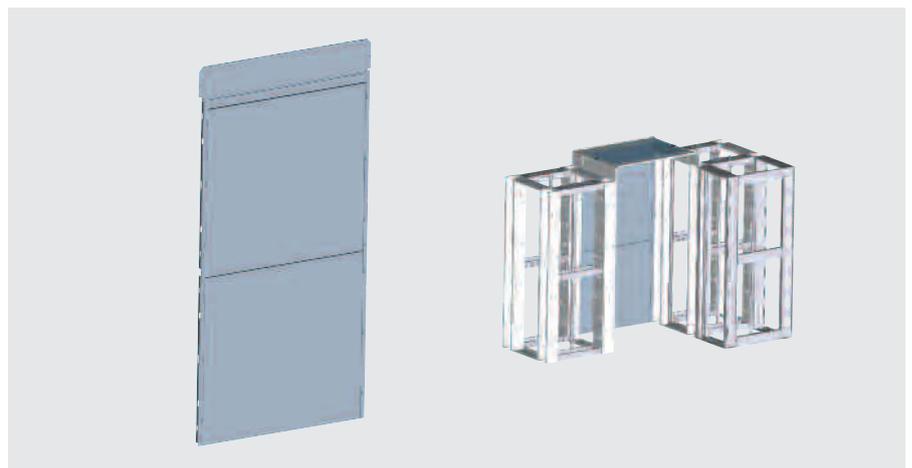
34 Cable tray

- to guide cables above cooling or heating corridor
- may also be used together with corridor cover (cooling corridor)

Material:
sheet metal, hot dip galvanised
Dimensions (W x H x D):
200 x 60 x 1500 mm

Order no.
583-000-91
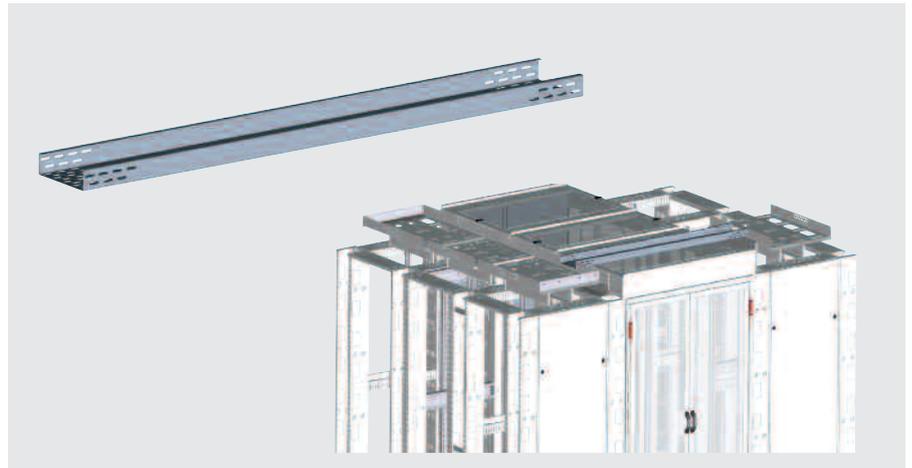
35 19" blind panel, plastic, 1 U

- air separation function: cost-saving and very effective option for reducing energy costs in data centres
- visual upgrade of the rack by concealing free 19" surfaces
- stylish design due to rounded front surface of the panel
- short assembly time: the blind panel is easily and without tools clipped into the19" grid.
- can be removed and reinserted at any time without wear and tear and without tools
- protection against dust entry
- fire protection classification to UL94 V-0
- weight-saving in comparison to traditional metal panels

**Material:**
Lexan 920, fire class to UL 94 V-0, ROHS-compliant
Finish:
RAL 7016 anthracite grey, RAL 7035 light grey or RAL 9005 jet black
Delivery:
Set = 10 pieces
Set = 136 pieces

Colour	Lieferform	Order no.
RAL 7016 anthracite grey	Set = 10 pc.	213-156-25
	Set = 136 pc.	213-156-40
RAL 7035 light grey	Set = 10 pc.	213-156-30
	Set = 136 pc.	213-156-45
RAL 9005 jet black	Set = 10 pc.	213-156-78
	Set = 136 pc.	213-156-79