

Cabinet Systems



NETrack

aprack

VARi rack



... the perfect shell for valuable electronics



Cabinet Systems



VARIRACK 316

beginning on page 1.4

- Network cabinet
- available as:
 - 19" "plug & play" network cabinet
 - 19" network cabinet, active
 - 19" network cabinet, passive
 - ISP cabinet (2 sections/3 sections)
 - 19" server cabinet
 - individual configuration 316



19" cabinet system 315

beginning on page 1.27

- Industrial cabinet
- available as:
 - 19" standard cabinet
 - 19" computer cabinet
 - 19" server cabinet
 - 19" LAN cabinet
 - 19" LAN cabinet, active
 - 19" LAN cabinet, passive
 - 19" LAN cabinet, "cool box"
 - 19" EMC cabinet
 - individual configuration 315



Open 19" racks

beginning on page 1.68

- 19" lab rack 585
- 19" wall rack 582
- 19" desktop rack 582
- Lab trolley 581



aprack® 110

beginning on page 1.51

- electronics cabinet
- available as:
 - 19" standard aprack cabinet
 - 19" EMC aprack cabinet
 - individual configuration 110



Additional cabinet systems

- see chapter 2 "Wall-Mounting Cabinets"
- 19" compact cabinet, VARI 500 . . . 2.18
- see chapter 3 "19" Cabinets"
- 19" Zenith cabinet (up to 24 U) . . . 3.11
- 19" Berlin cabinet (up to 24 U) . . . 3.16



Customized cabinet systems

beginning on page 1.73

- we can develop the optimum cabinet system solution
- or modify existing products according to your demands



Flexible

VARi rack



- **high-quality design**
 - aluminium circular extrusions
 - colour specified by customer
- **Symmetrical**
 - all pieces can be mounted on all sides (4 doors possible)
 - all parts mounted on the aluminium extrusions can be installed on the front and sides
- **Installation advantages**
 - side panels can be plugged into place and locked with a sash fastener
 - sliding roof and floor pieces for cable entry with integrated tension relief
 - 19" mount, adjustable mounting depth (right and left)
 - can be dismantled
 - high stability
- **19" and metric system solutions**



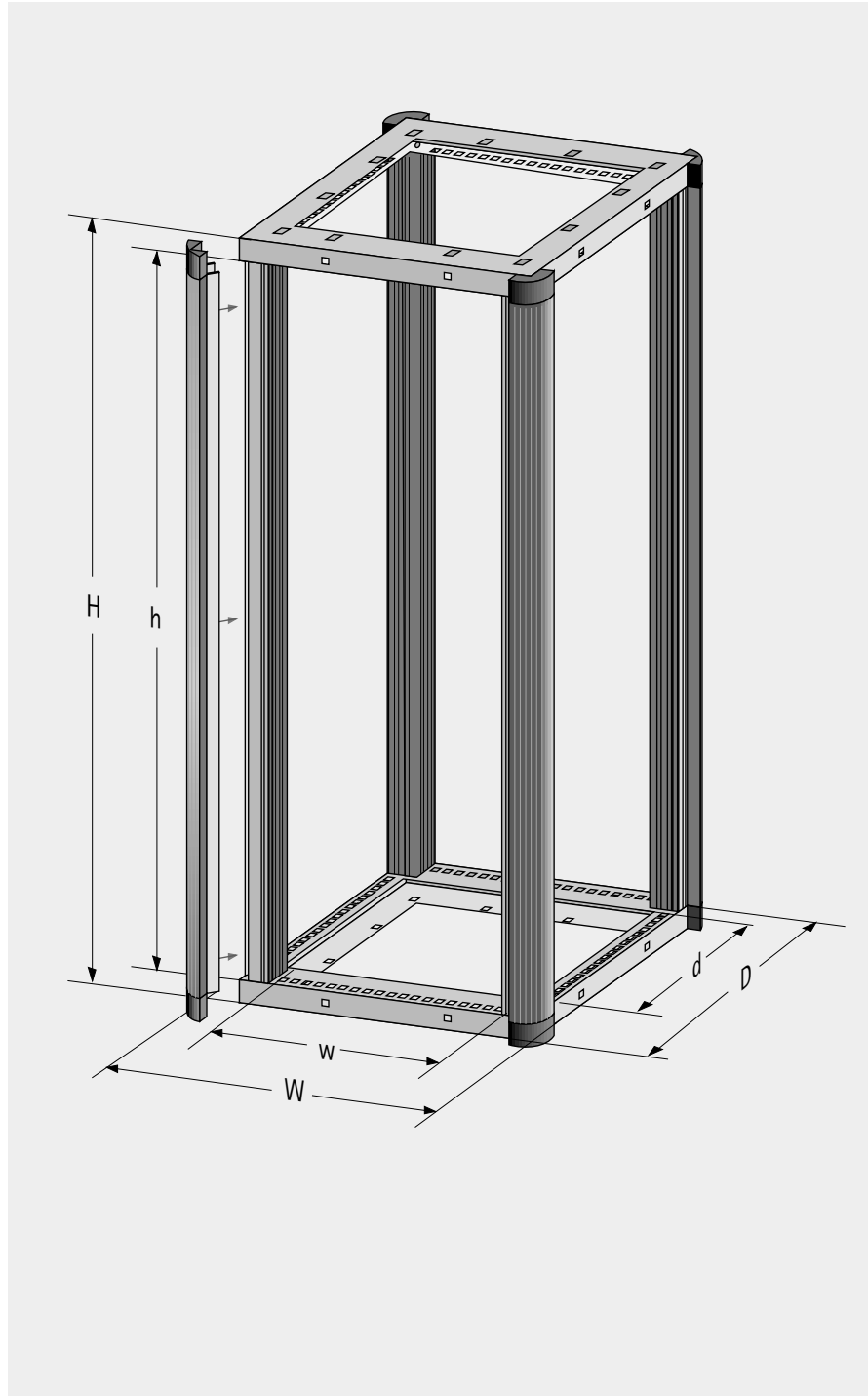
apraNET's modular, fully symmetrical VARIRack cabinet system offers optimum installation conditions and cable management designed for structured cabling technology.

The fully symmetrical rack consists of two painted roof and floor frames and four vertical aluminium extrusions. Four painted decorative sections are clipped into to the extrusions, thus giving the rack a succinct column design. Because the rack is completely symmetrical, hinged doors can be installed on the side, allowing optimum access to the cable area. Multi-purpose crossbars make it possible to install partial mounts along side the 19" complete equipment. As standard, they can be moved steplessly towards the front or rear. The 19" mount can also be moved side to side to allow for more cable space on one side, for example.

The VARIRack system includes several standard cabinets, allowing you to specify just one item number to order a complete solution. You can of course create your own customized VARIRack system.



Specifications



Construction:

The cabinet rack consists of two identical sheet steel frames, four vertical aluminium extrusions and four coloured aluminium extrusions, which are clipped into the vertical extrusions.

Finish:

Top/bottom frame
RAL 7035 light grey
Vertical section, RAL 5014
pigeon blue

Standards:

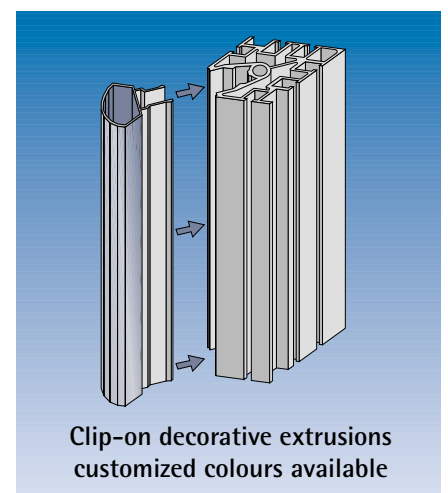
Installation dimensions in compliance with IEC 297-1

Material:

Frame:
sheet steel
Extrusions:
aluminium

Delivery:

completely assembled



Available cabinet sizes

Cabinet height H	1200mm	1600mm	1800mm	2000mm	2200mm
Dimensions W x D (mm)	650 x 650	650 x 650	650 x 650	650 x 650	650 x 650
	650 x 800	650 x 800	650 x 800	650 x 800	650 x 800
	800 x 800	800 x 800	800 x 800	800 x 800	800 x 800



VARIrack plug & play

- Complete solution, entirely pre-wired to one central socket
- High-quality, temperature-controlled fan module

Finish:

Cover parts and base
RAL 7035 light grey
Vertical extrusion, RAL 5014
pigeon blue

Delivery:

completely assembled

Outer dimensions (H x W x D):

2000mm (+ 100mm base) x 800mm x 800mm

Included in delivery

Item	Pc.	Description
1	1	Rack
2	2	Side panels
3	1	Hinged door, rear
4	1	Glass door, front with tinted safety glass
5	2	Pivot lock for installing a cylinder lock
6	2	19" mount 42 U (front and rear)
7	10	Cable guide
8	2	Cable ducts cable management bracket
9	1	Temperature-controlled fan module top-mounted
10	1	Cabinet lamp with switch, socket and magnetic support
11	1	7-socket power strip
12	1	Earthing kit
13	1	Base



This cabinet leaves nothing to be desired: The high-quality, temperature-controlled fan module; seven-socket power strip; rear 19" mount; cable guides; cabinet lamps with magnetic support, switch and socket; assembled earth conductor set; and prewiring to a central socket make this cabinet a true "plug&play" model.

Matching 19" plug-in units → see p. 4.1

Matching 19" subracks → see p. 5.1

Matching network components → see p. 9.1

Order information

(HxWxD) mm	Part no.
2000 x 800 x 800	31-6901-15



VARIRack active

- Complete solution for installing active and passive components for network engineering

Finish:

Cover parts and base
RAL 7035 light grey
Vertical section, RAL 5014
pigeon blue

Standards:

Installation dimensions in compliance with IEC 297-1

Delivery:

completely assembled

Outer dimensions (H x W x D):

1200mm (+ 100mm base) x 800mm x 800mm

2000mm (+ 100mm base) x 800mm x 800mm

Order information

(HxWxD) mm	Part no.
1200+100 x 800 x 800	31-6901-01
2000+100 x 800 x 800	31-6901-02

Matching 19" plug-in units → see p. 4.1

Matching 19" subracks → see p. 5.1

Matching network components → see p. 9.1

The active VARIRack model is the best choice if you intend to install active components like servers or RAID systems in the cabinet in addition to passive cables. Heat emissions from this equipment are dissipated by an efficient ventilation system, which thus ensures excellent system stability. The cabinet has a temperature-controlled fan module, which "pushes" air through a dust filter

and into the cabinet. As a result, the pressure inside the cabinet is slightly higher, preventing unwanted air from entering. Two standard plug-in doors and a short plug-in door for installing the fan module are included in delivery. The front door with tinted safety glass and a turning lever lock for installing a cylinder lock allows you to see clearly into the cabinet. The second 19" rear

mount, 42 U (24 U), allows you to mount sliding rails or heavy-duty shelves. Also included are the one-piece top panel, 100mm high base and the side cable clip on the front of the 19" mount for running patch cables vertically.



VARIRack passive

- Complete solution for installing passive components for network engineering

Finish:

Cover parts and base
RAL 7035 light grey
Vertical section, RAL 5014
pigeon blue

Standards:

Installation dimensions in compliance with IEC 297-1

Delivery:

completely assembled

Outer dimensions (H x W x D):

1200mm (+ 100mm base) x 800mm x 800mm

2000mm (+ 100mm base) x 800mm x 800mm

Order information

(HxWxD) mm	Part no.
1200+100 x 800 x 800	31-6900-01
2000+100 x 800 x 800	31-6900-02

Matching 19" plug-in units

see p. 4.1

Matching 19" subracks

see p. 5.1

Matching network components

see p. 9.1

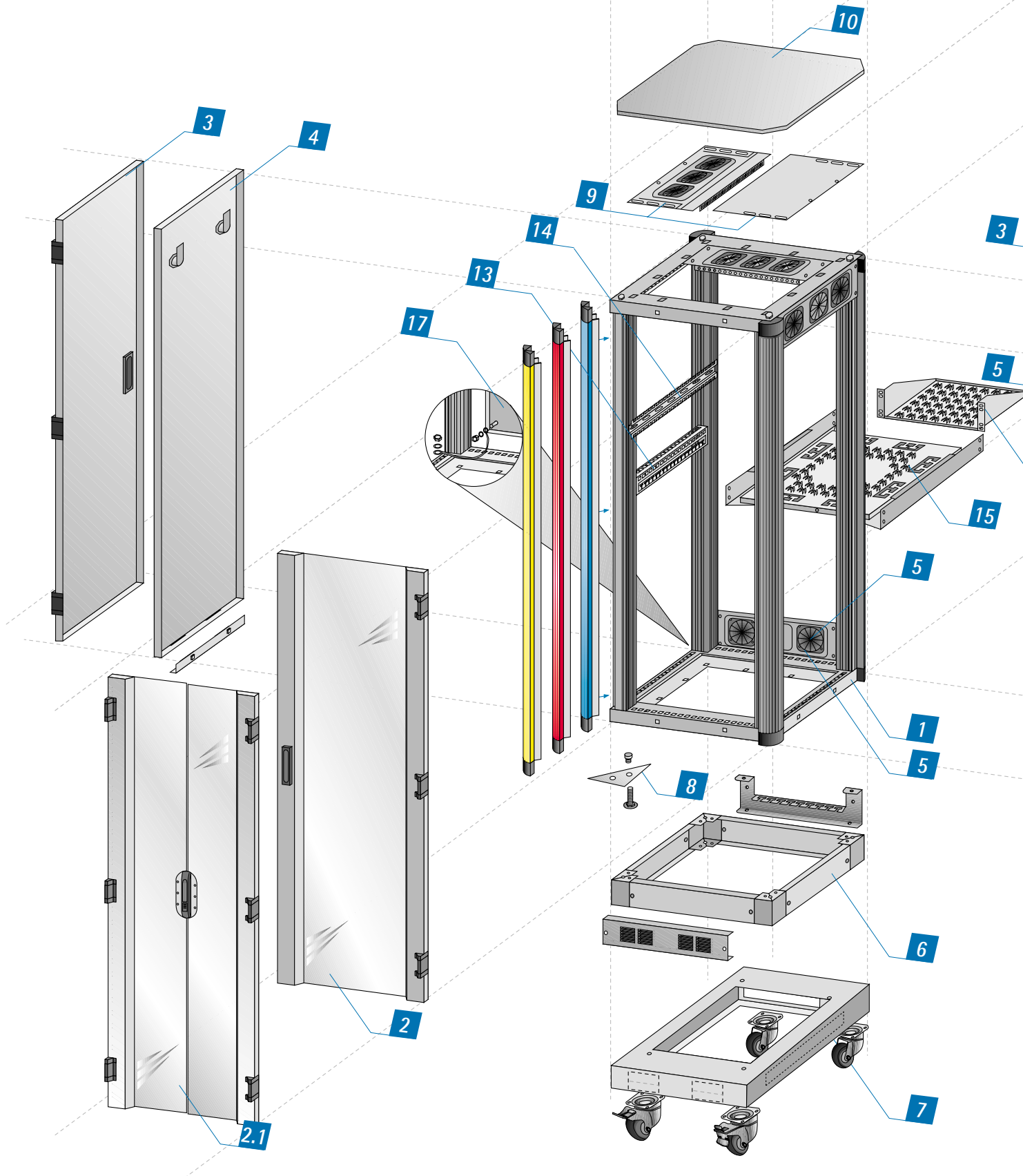


The VARIRack passive cabinet is the optimum solution if you wish to accommodate predominantly passive components securely. The folding rack is completely symmetrical and allows you to mount hinged doors on all four sides for optimum access or to arrange racks as a series connected from any of the sides, for example.

Included with the rack are three plug-in doors, a front door with tinted safety glass and a turning lever lock for installing a cylinder lock, a 19" 42 U (24 U) front mount, a 100mm high base and a solid top panel. Cable clips are attached to the side of the 19" front mount for running patch cables vertically.



Individual configuration:





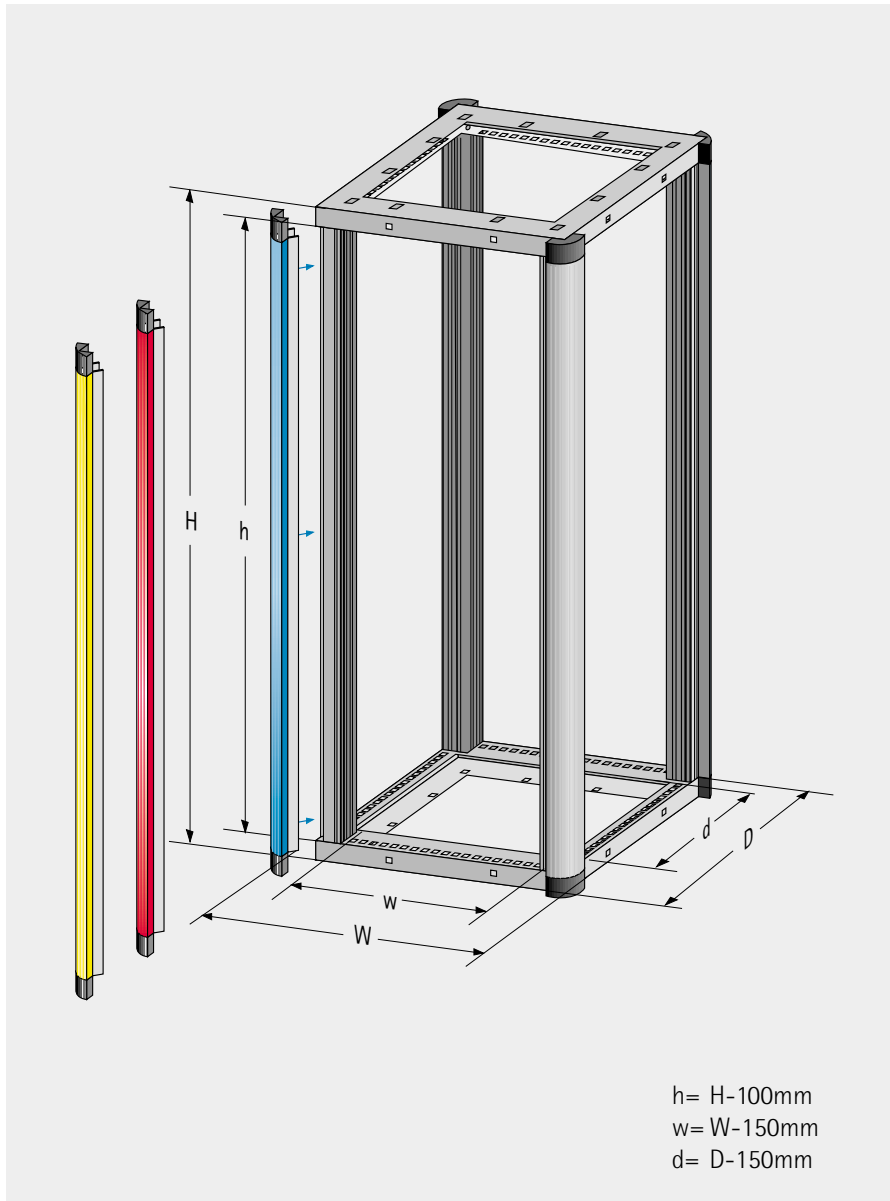
19" VARIRack cabinet system • 316

Design your own customized cabinet.
Select your required cabinet components one at a time.



Item	Description	Page
1	Rack	1.12
2	Glass door	1.13
2.1	Glass door, divided	1.14
3	Solid door	1.13
3.1	Solid door, divided	1.14
4	Hinged door	1.13
5	Module for short door	1.14
6	Stationary base	1.16
7	Base on castors	1.16
8	Adjusting foot	1.16

Item	Description	Page
9	Cover plates	1.15
10	Top plate	1.14
11	19" mount	1.17
12	Traverse for 19" installation	1.17
13	Multifunctional traverse	1.17
14	Cable management traverse	1.17
15	Shelf without 19" mount	1.18
16	19" shelf	1.18
17	Earthing kit	1.19



1 Rack, dismountable

The cabinet rack consists of two identical frames made from sheet steel, four vertical aluminium extrusions and four coloured aluminium extrusions, which are clipped into the support sections.

Finish:

Top/bottom frame:
RAL 7035 light grey
Aluminium extrusions:
clear chromated
Decorative extrusions*:
RAL 5014 pigeon blue

Delivery:

completely assembled

* The decorative sections can be coloured your individual colours. Please ask our sales team!

See the section on server/ISP cabinets beginning on page 1.21 for information on the 1000mm-deep rack.

(WxD) mm:	Cabinet height (H) mm:	U	Part no.
650 x 650	1200	24	31-6660-02
650 x 800	1200		31-6860-02
800 x 800	1200		31-6880-02
650 x 650	1600	33	31-6660-06
650 x 800	1600		31-6860-06
800 x 800	1600		31-6880-06
650 x 650	1800	37	31-6660-08
650 x 800	1800		31-6860-08
800 x 800	1800		31-6880-08
650 x 650	2000	42	31-6660-10
650 x 800	2000		31-6860-10
800 x 800	2000		31-6880-10
650 x 650	2200	46	31-6660-12
650 x 800	2200		31-6860-12
800 x 800	2200		31-6880-12



Doors

- Left or right stop
- The door is shortened by 200mm when a universal module is used (see item 5) for example, cabinet height 1200mm = door height 1000mm + universal module

- keyed alike
- fits into individual cylinder locks (for glass door and solid door)

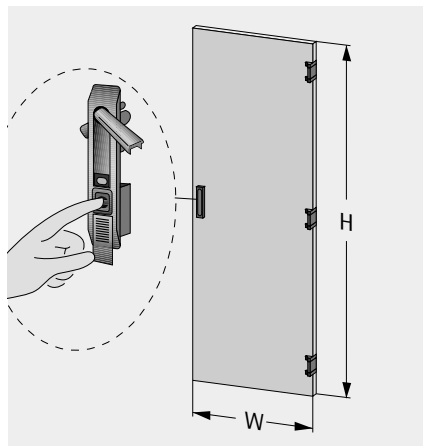
Finish:
RAL 7035 light grey

2 Glass door



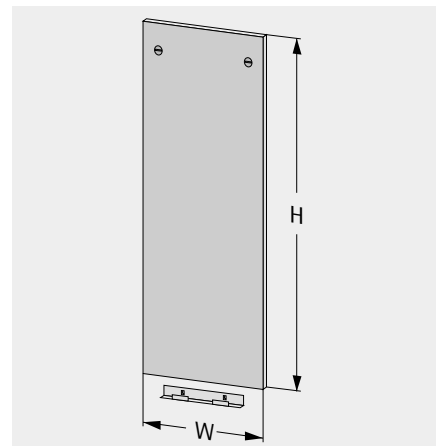
- Safety glass, grey, 5mm
- with turning lever lock for cylinder lock

3 Solid door



- sheet steel
- with turning lever lock for profile semi-cylinder

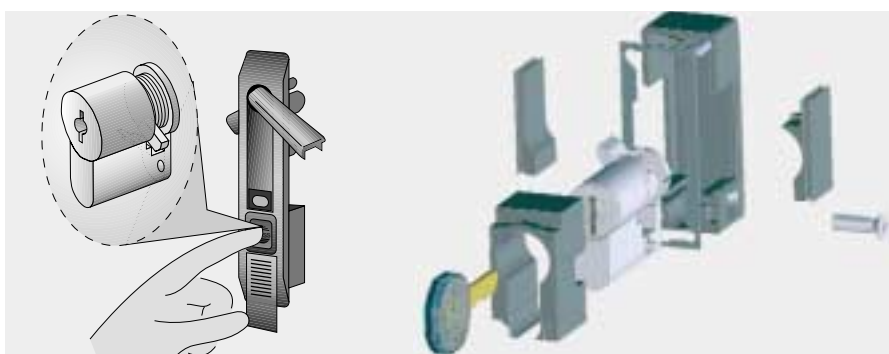
4 Hinged



- sheet steel
- with 2 sash fasteners

Height mm	Width mm	Part no.	Part no.	Part no.
1000	650	31-6610-01	31-6610-02	31-6610-03
	800	31-6810-01	31-6810-02	31-6810-03
1200	650	31-6612-01	31-6612-02	31-6612-03
	800	31-6812-01	31-6812-02	31-6812-03
1600	650	31-6616-01	31-6616-02	31-6616-03
	800	31-6816-01	31-6816-02	31-6816-03
1800	650	31-6618-01	31-6618-02	31-6618-03
	800	31-6818-01	31-6818-02	31-6818-03
2000	650	31-6620-01	31-6620-02	31-6620-03
	800	31-6820-01	31-6820-02	31-6820-03
2200	650	31-6622-01	31-6622-02	31-6622-03
	800	31-6822-01	31-6822-02	31-6822-03

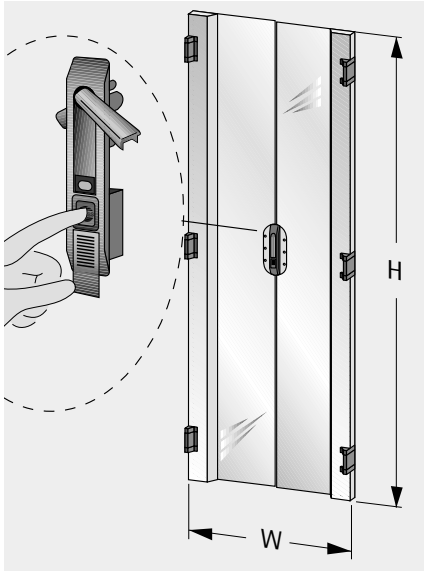
Profile semi-cylinder



Description	Part no.
Profile semi-cylinder, with key	67-6316-00
Adapter for installing an individual cylinder (DIN 18252)	67-6316-10



2.1 Glass door, divided

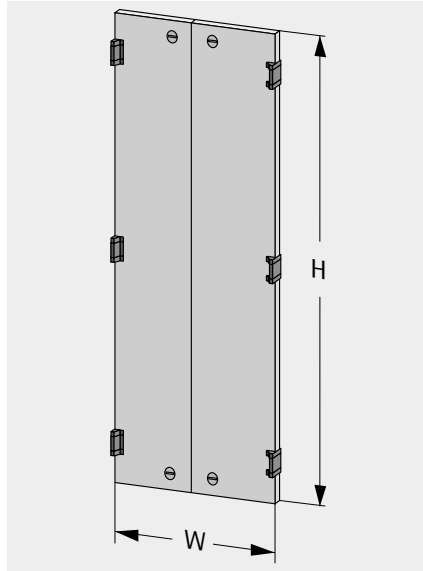


- safety glass, grey, 5mm
- with turning lever lock for profile semi-cylinder

Sections: RAL 7035 light grey

(HxW) mm	Part no.
2000 x 800	31-6820-05

3.1 Solid door, divided



- sheet steel
 - with 2 sash fasteners, top and bottom
- Finish: RAL 7035 light grey

(HxW) mm	Part no.
2000 x 800	31-6820-06

10 Top panel, solid

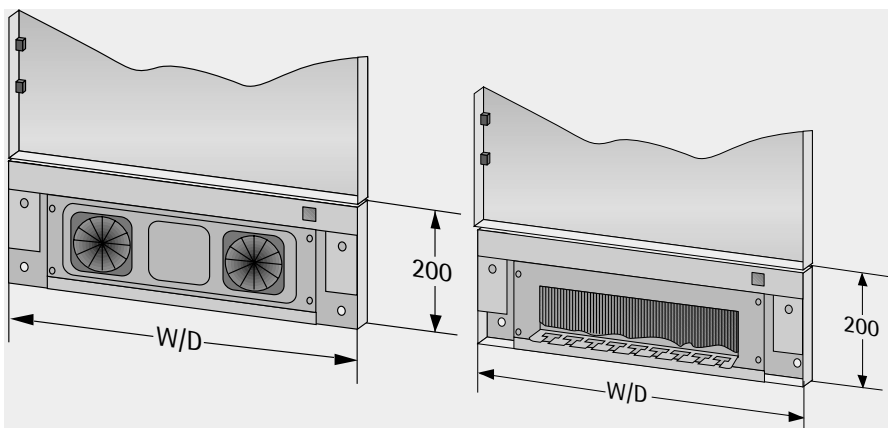


- can be raised approx. 20mm for ventilation

Finish: RAL 7035 light grey

Dimensions mm	Part no.
650 x 650	31-6016-60
800 x 650	31-6018-60
800 x 800	31-6018-80

5 Module for short door



Module for fan installation

Module for cable entry

The modular design of the VARIRack system allows 1.6m-high doors to be installed on a 2m rack for example. The open areas above and below the door can be used for cable entry or for installing fans. Modules are 200mm high and can be stacked.

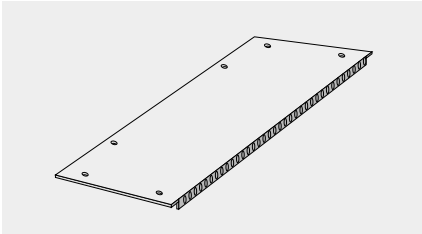
Finish: RAL 7035 light grey

(The door is shortened by about 200mm per universal module.)

Model	(W)/(D) mm	Part no.
Module for fan installation	650	31-6110-22
	800	31-6110-23
Module for cable entry	650	31-6110-10
	800	31-6110-11



9 Cover plate, solid



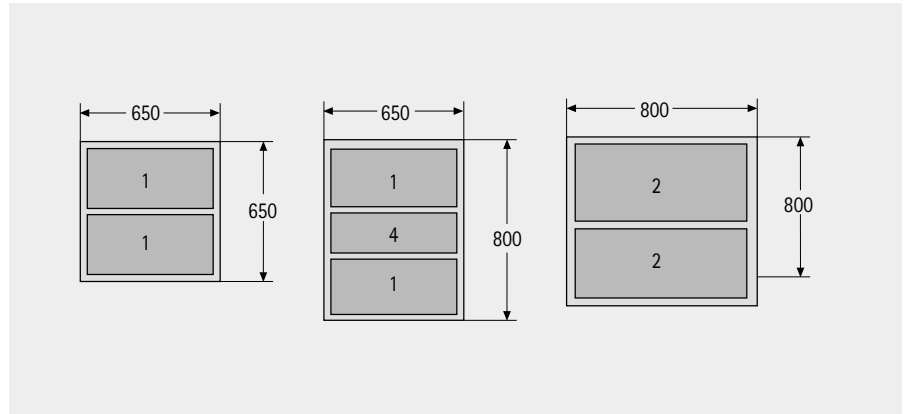
- can also be used for cable entry (cable management bracket is integrated)

Finish:

sheet steel, galvanized

Size	Part no.
1	31-6110-01
2	31-6110-02
4	31-6110-06

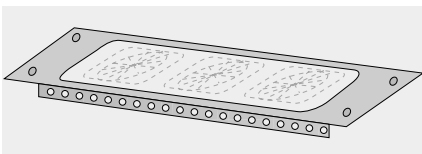
Cabinet dimensions for selecting cover plates



The top and/or bottom openings can be closed with cover plates. You can move a closed cover panel to create an adjustable opening for cable entry. Tension relief can be supplied to the cables directly at the cover panel using cable ties so

cables can be securely led into the cabinet.

Cover plate for fan modules



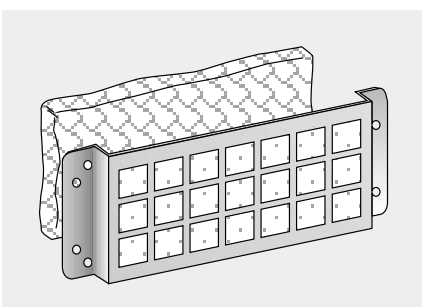
- for integrating fan modules

Finish:

sheet steel, galvanized

Size	Part no.
1	31-6110-07
2	31-6110-08

5.1 Filter set for fan modules



Material:

aluminium/filter fleece

Part no.
31-6100-99

Fan module



- fan module, completely prewired with 2.5m connecting cable
- thermostat 0°C to +60°C
- intake or exhaust, depending on installation direction

Description	Part no.
Fan module, 1 fan	23-0300-01
Fan module, 2 fans	23-0300-02
Fan module, 3 fans	23-0300-03

Fan module, speed-controlled



- fan module, completely prewired with 2.5m connecting cable
- temperature sensor for speed control
- very quiet
- intake or exhaust, depending on installation direction

Description	Part no.
Speed-controlled, 1 fan	23-0300-51
Speed-controlled, 2 fans	23-0300-52
Speed-controlled, 3 fans	23-0300-53



316 • 19" VARIRack cabinet system

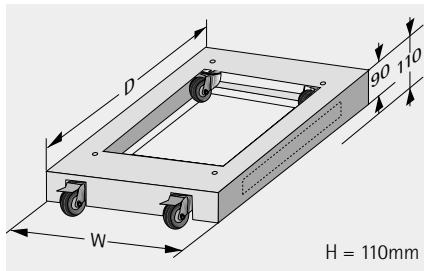


VARIRack cabinet system bases are designed so that the rack locks onto the base and then must only be secured with at least two diagonal screws.

One stationary base corner set (see item 6a) and 4 individually removable base panels (see item 6b) are required for setting up a standard base. Base panels can be selected individually (see item 6b).

In addition to the base, adjusting feet (see item 8) can be attached directly to the cabinet rack (without base) or to the base to adjust the height.

7 Base on castors

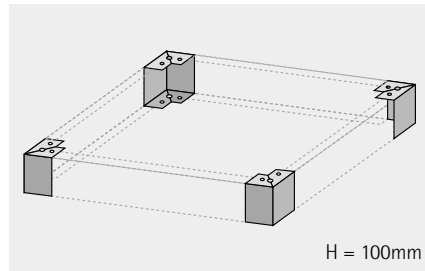


- base on castors with two swivel castors and two brake castors
- cable entry from rear and side
- side access opening easy to open
- rear access opening with brush

Carrying capacity: 300kg
Finish: RAL 7035 light grey

Width (W) mm	Depth (D) mm	Part no.
650	650	31-6126-60
650	800	31-6126-80
800	650	31-6128-60
800	800	31-6128-80

6a Base corner set



- incl. assembly material

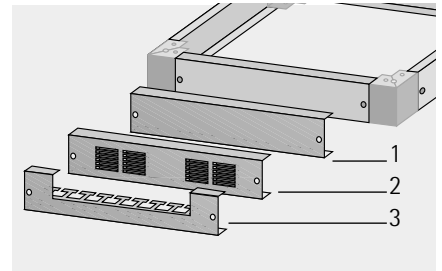
Material: sheet steel

Finish: RAL 7035 light grey

Delivery:
not assembled

Height (H) mm	Part no.
100	31-6026-20

6b Base panels



- for setting up individual bases
- four panels constitute one base

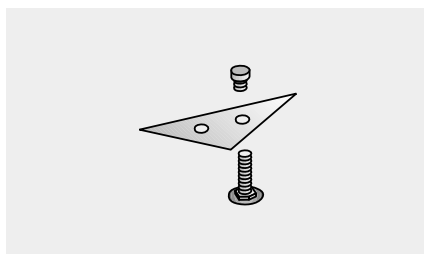
Finish: RAL 7035 light grey

Base panels

- Type 1** solid
- Type 2** with air vents
- Type 3** with cable entry

Type	Width/depth of cabinet rack mm	Part no.
1	650	31-6100-10
1	800	31-6100-04
2	650	31-6100-12
2	800	31-6100-14
3	650	31-6100-92
3	800	31-6100-94

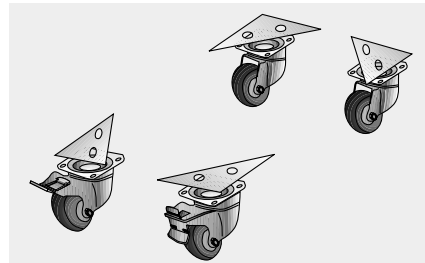
8 Adjusting foot



- to attach to the rack (A) or base (B)
- incl. assembly material

Description	Part no. (1 piece)
A) Cabinet rack	31-6026-00
B) Base	31-6026-05

8.1 Castor set



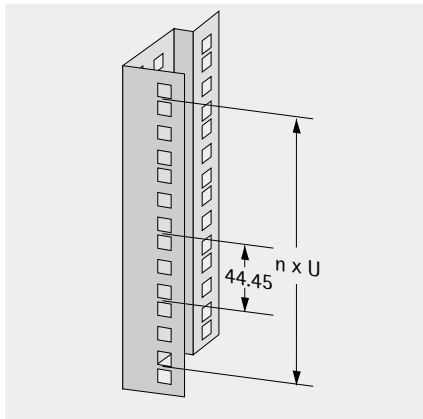
- to attach to the rack
- consists of 4 swivel castors,
2 of which have brakes

Carrying capacity per castor: 100kg

Part no.
31-6026-10



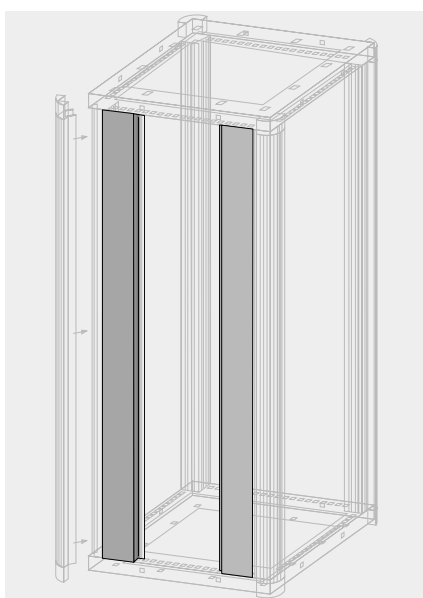
11 19" ASA vertical mounting



- ASA perforation, (1/2 19" perforation)
- Material:** sheet steel, galvanized

U	Part no. (1 piece)
6	31-6120-06
12	31-6120-12
15	31-6120-15
24	31-6120-24
33	31-6120-33
37	31-6120-38
42	31-6120-42
46	31-6120-46

Panel, side with hinge pin

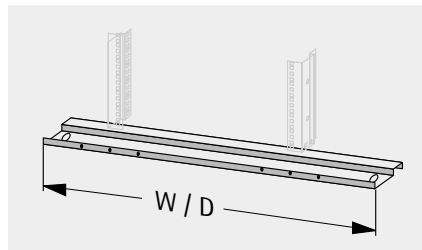


- for covering the side storage space in **800mm**-wide cabinets
- Positioning using magnetic latches

Finish: RAL 7035 light grey

Height (H) mm	Part no.
1800	31-6122-38
2000	31-6122-42
2200	31-6122-46

12 Traverse for 19" installation

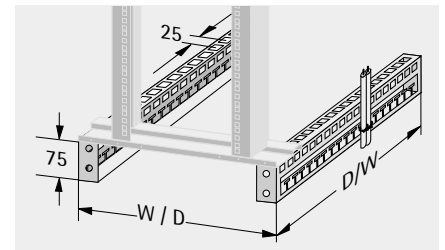


- two traverses per 19" mount are required for installing 19" vertical mountings
- stepless adjustable mounting depth
- if $W=800\text{mm}$, the 19" mount can be moved laterally

Material: sheet steel, galvanized

Depth (D)/ width (W) mm	Part no. (1 piece)
650	31-6120-00
800	31-6120-01

13 Multifunctional traverse

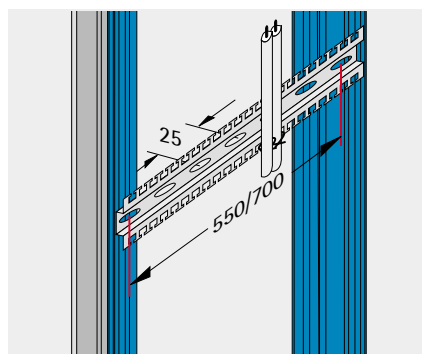


- 19" partial extension
- for clean cable entry
- stepless adjustable mounting height

Material: sheet steel, galvanized

Depth (D)/ width (W) mm	Part no. (1 piece)
650	31-6121-00
800	31-6121-01

14 Cable duct with integrated cable management bracket

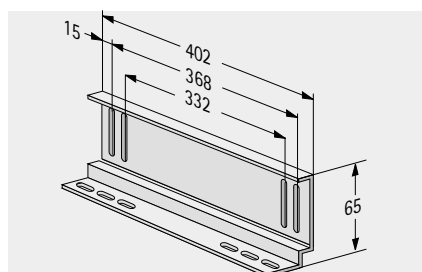


This duct allows you to use cable ties or cable clips to hold cables in place. The combination rail is clear chromated and establishes contact between the cable sheath and zero potential.

Material: aluminium

Depth (D)/ width (W) mm	Part no. (1 piece)
650	31-6121-10
800	31-6121-11

Sliding rail for 19" vertical mounting, screw-on

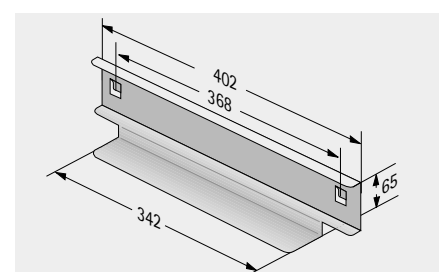


Sliding rails are hung on the 19" vertical mountings. They support heavy 19" plug-in units. Two 19" mounts are required for anchoring them.

Material: sheet steel, 2mm, galvanized

Part no. (pair)
312-544

Sliding rail for 19" vertical mounting, hinged



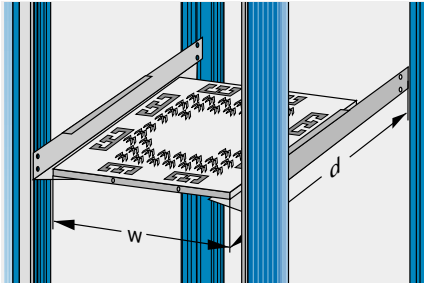
Sliding rails are hung on the 19" vertical mountings. They support heavy 19" plug-in units. Two 19" mounts are required for anchoring them.

Material: sheet steel, 1.5mm, galvanized

Part no. (pair)
31-6544-00



15 Shelves without 19" extension



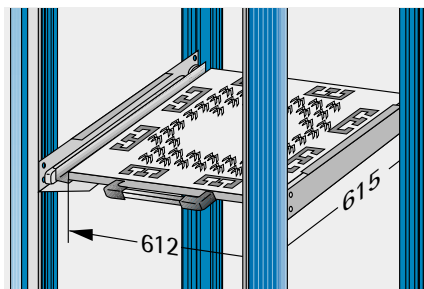
- installed across the entire width of the cabinet (see table for carrying surface)
- integrated tension relief for equipment cable
- **Items 1-4 can be combined with an extender set (see 15.1)**

Carrying capacity: 50kg surface load

Finish: RAL 7035 light grey

Item	WxD mm	Carrying surface wxdxh mm	Part no.
1	650x650	465x415x30	31-6036-60
2	650x800	465x415x30	31-6036-80
3	800x650	615x415x30	31-6038-60
4	800x800	615x415x30	31-6038-80
5	800x800	612x615x30	31-6038-81

Heavy-duty shelves without 19" extension



- for 800mm cabinet depths
- Extension with three-part extender
- for 800mm cabinet widths

Included in delivery:

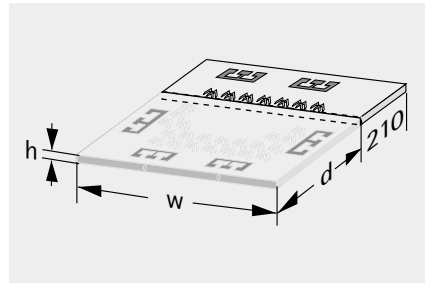
Heavy-duty shelf with mounting material (for pull-out function with telescoping rails and handle)

Carrying capacity: 80kg

Finish: RAL 7035 light grey

Item	Carrying surface wxdxh mm	Function	Part no.
1	612x615x30	fixed	31-6138-86
2	612x615x30	extractable	31-6138-80

Shelf extension

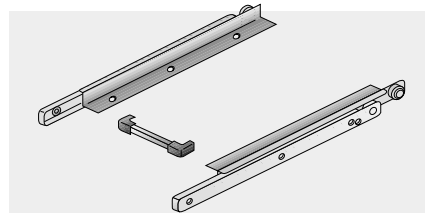


Shelf extensions increase the depth of **fixed** shelves by around 210mm. **They cannot be combined with an extender set.**

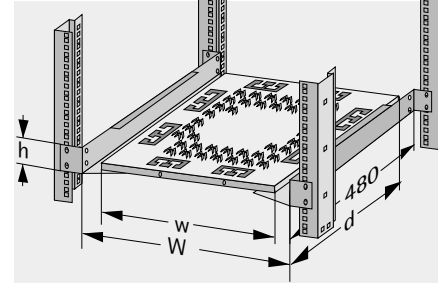
Finish: RAL 7035 light grey

Width mm	Part no.
650	31-6036-65
800	31-6038-65

15.1 Extender set for shelf



16 19" shelf



- requires a second 19" mount
- **can be combined with an extender set, item 15.1**

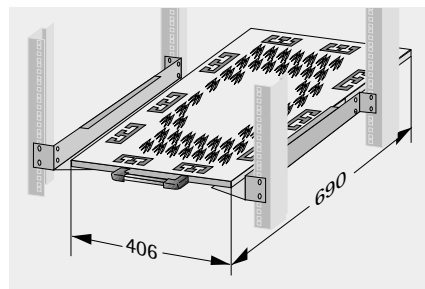
Finish: RAL 7035 light grey

W	Carrying surface w x d x h	Funct.	Load	Part no.
19"	415x475x88	fixed	50kg	31-6036-19

You can use this extender set to turn the above shelves into telescoping shelves.

Part no.
68-0051-10

19" heavy-duty shelf



- for 800mm cabinet depths
- Extension with three-part extender
- 19" front and rear extension required

Included in delivery:

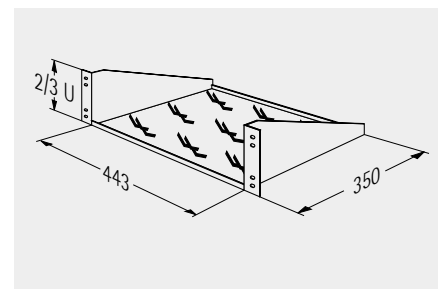
Heavy-duty shelf with mounting material (for extraction with telescoping rails and handle)

Carrying capacity: approx. 80kg

Finish: RAL 7035 light grey

Item	Function	Part no.
1	fixed	31-6036-88
2	extractable	31-6036-89

16 19" shelf, fixed



- easy installation on a 19" vertical mounting (only one 19" mount is required)
- ventilated
- incl. assembly material

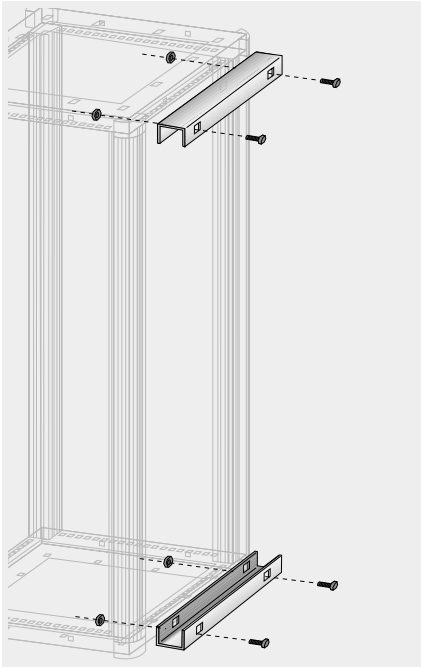
Carrying capacity: approx. 15kg

Finish: RAL 7035 light grey

Height	Part no.
2 U	31-5810-20
3 U	31-5810-00



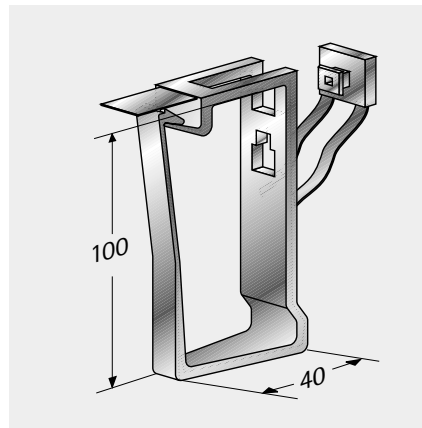
Cabinet connecting kit



- for arranging many cabinets side by side or one behind the other

Cabinet depth mm	Part no. (set)
650	31-6100-16
800	31-6100-40
1000	31-6100-70

Cable hoop, plastic

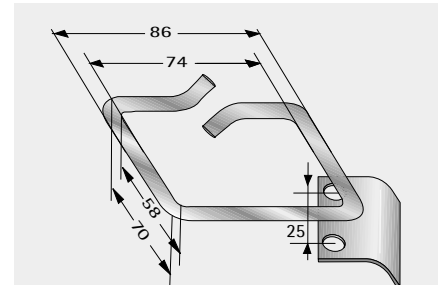


- for securing cables to the side of the 19" frame (for **800mm**-wide cabinets)
- for positioning cables vertically
- incl. assembly material

Material: plastic

Part no.
64-0035-00

Cable hoop, metal

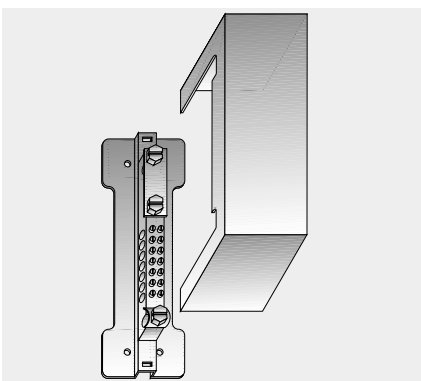


- for securing cables to the side of the 19" frame (for **800mm**-wide cabinets)
- for positioning cables vertically
- incl. assembly material

Material: steel, galvanized

Part no.
64-0036-00

Tension balancing rail, covered

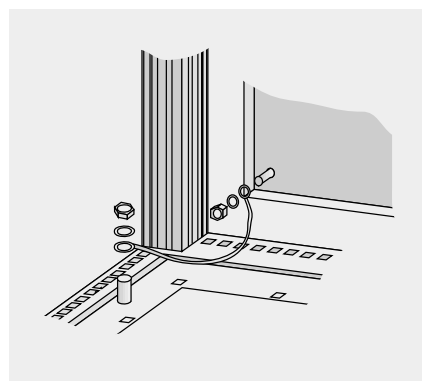


Tension balancing set, covered; with following connection options:

- 1 x round conductor RD 8-10
- 1 x flat band up to FI 30 or round conductor RD 8-10
- 7 x single- or several-wire conductors up to 10mm²
- or stranded conductors up to 10mm²
- incl. assembly material

Part no.
64-0200-01

17 Earthing kit

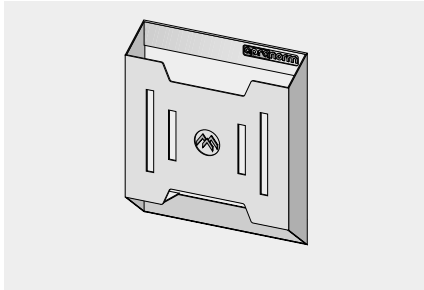


This set allows you to earth individual cabinet parts in compliance with VDE.

Part no.
31-6100-15



Document pocket

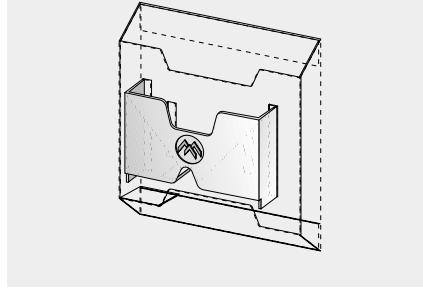


- self-adhesive
- heat-resistant to 60°C
- capacity to 3kg
- your company's logo can be affixed

Material: polystyrene, black

Part no.
640-100

CD/diskette holder for document pocket



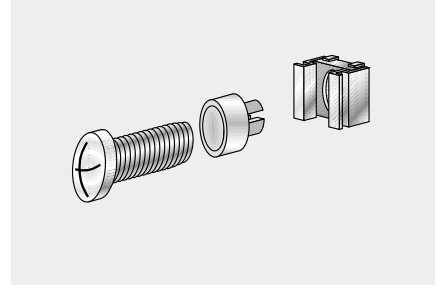
- practical supplement
- the CD/diskette holder can be hung in the document pocket

Material: aluminium

Finish: RAL 7035 light grey

Part no.
64-0100-10

M5/M6 screw set for installing 19" components

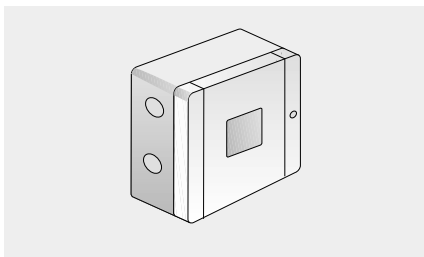


Included in delivery:

- 50 cross dome oval-head screws M5 x 12/M6 x 16
- 50 captive nuts, M5/M6-8
- 50 decorative washers, M5/M6 with collar

Description	Part no.
M 5	630-991
M 6	630-994

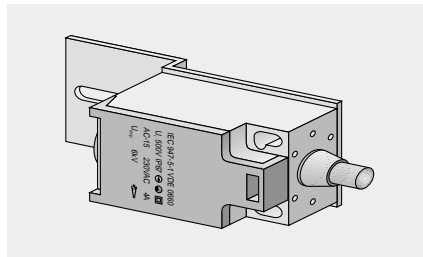
Connection box



- cable distribution socket
- used as a fixed transfer point from building electricity to cabinet electricity
- easy and quick assembly

Part no.
640-059

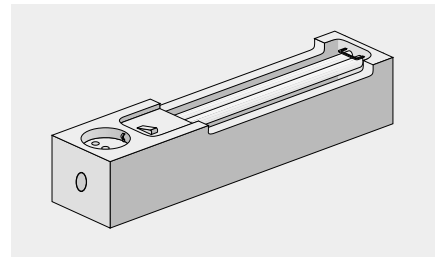
Door contact switch



- for switching on and off cabinet lamps for example
- incl. assembly material

Part no.
64-0071-00

Cabinet lamp, 230V



- shielded in compliance with VDE 0712 ICE 82
- 230V / 50Hz 11W (equivalent to a 75W filament bulb)
- magnetic attachment; can be placed in different locations within the LAN cabinet
- can be mounted on standard rails
- incl. switch and socket (power cable not included)

Part no.
640-143



Server/ISP cabinets

VARirack





Note:
The colour in the photograph is not one of the standard colours

VARIRack ISP cabinet, divided into two/three sections

- The new VARIRack series ISP cabinet with dimensions
H = 2000mm
W = 650mm
D = 1000mm
 is intended for deep server plug-in units (max. plug-in depth approx. 900mm).
- Front and back perforated-panel doors provide necessary ventilation.
- The 19" mounts have a stepless adjustable mounting depth. The divided side panels provide optimum access to the cabinet interior even in tight spaces.

Finish:

Rack/cover pieces:
RAL 7035 light grey
Decorative extrusions:
RAL 5014 pigeon blue

Delivery:

completely assembled

Order information

(HxWxD) mm	Compartment-ments	Part no.
2000x650x1000	two	31-6900-91
2000x650x1000	three	31-6900-92

Note:

Other combinations and heights are available upon request

Included in delivery

Item	Pc.	Description
1	1	Rack
2	2 or 3	Perforated-panel doors, front
3	2 or 3	Perforated-panel doors, rear
4	4	Adjusting feet
5	4	Multifunctional traverses in each compartment 19"
6	4	Vertical mounting 19 U/ 12 U in each compartment

Item	Pc.	Description
7	1	Protected cable entry via cable ducts in each individual compartment
8	1	Top panel, divided into 3 sections
9	2	Side panels D = 650mm
10	2	Side panels D = 350mm

- Matching 19" plug-in units → see p. 4.1
- Matching 19" subracks → see p. 5.1
- Matching network components → see p. 9.1



19" **VARI**rack server cabinet

- The new VARIrack series ISP cabinet with dimensions
H = 1200mm (24 U) or 2000mm (42 U)
W = 650mm
D = 1000mm
 is intended for deep server plug-in units (max. plug-in depth approx. 900mm).
- The ventilated front glass door and perforated-panel back door provide necessary ventilation.
- The 19" mounts have a stepless adjustable mounting depth. The divided side panels provide optimum access to the cabinet interior even in tight spaces.

Finish:

Rack/cover pieces:
 RAL 7035 light grey
 Decorative extrusions:
 RAL 5014 pigeon blue

Delivery: completely assembled

Included in delivery

Item	Pc.	Description
1	1	Rack
2	1	Front glass door, ventilated
3	1	Perforated-panel door, rear
4	2	Side panels
5	2	19" mounts, 42 U (24 U) front and rear
6	1	Bottom panel, divided into 3 sections
7	1	Top panel, solid
8	1	Base, 90mm high

(HxWxD) mm	Part no.
1200 x 650 x 1000	31-6900-49
2000 x 650 x 1000	31-6900-50

VARIrack server cabinet

as above but with the following colour combination:

Finish:

Rack/cover pieces:
 RAL 9005 deep black,
 Decorative sections,
 RAL 7037 dust grey

(HxWxD) mm	Part no.
1200 x 650 x 1000	31-6900-59
2000 x 650 x 1000	31-6900-60

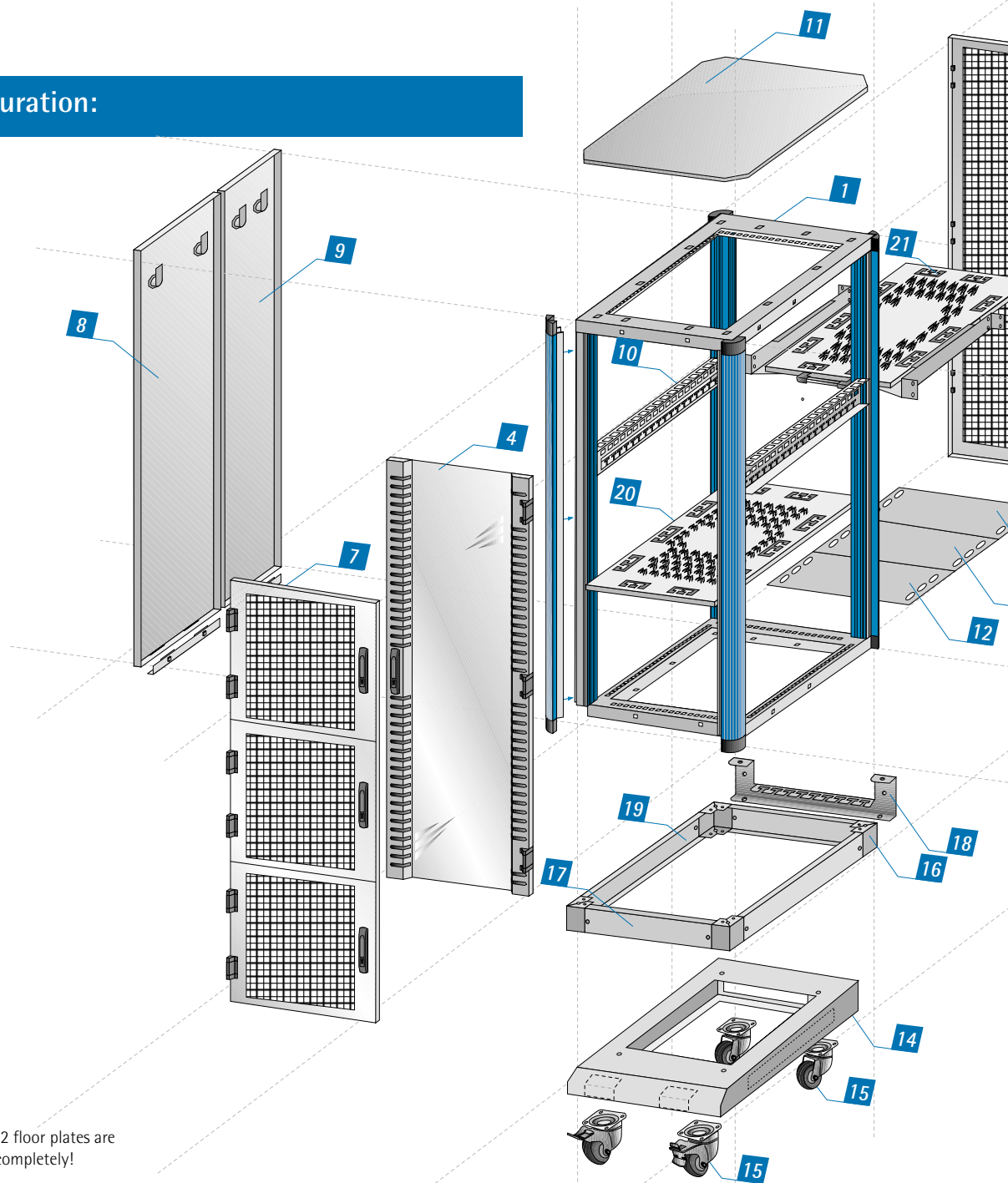


Fig.: Perforated-panel door, rear



316 • 19" VARIrack cabinet system

Individual configuration:



***Note:**
2 type-1 floor plates and 1 type-2 floor plates are required to enclose this cabinet completely!

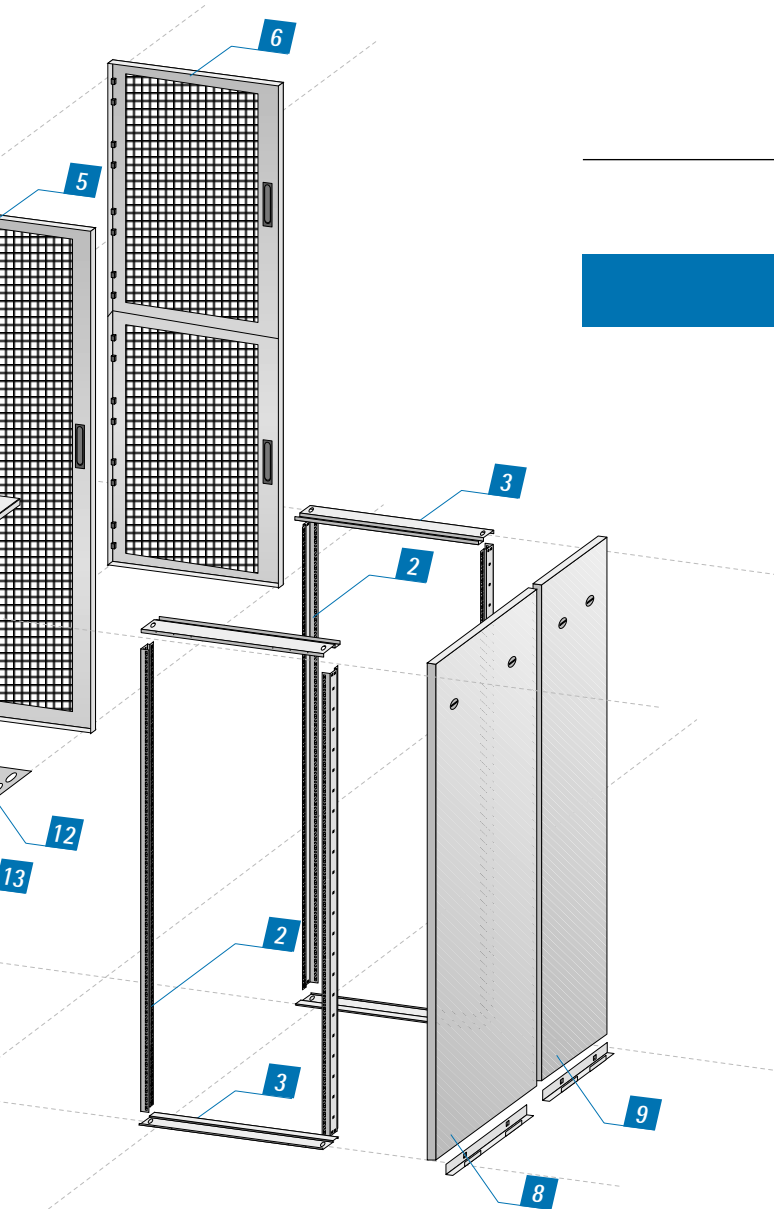
Overview of server cabinet/ISP

Item no.:	1	2	3	4	5
Individual parts	Rack	Vertical mounting (1 piece)	Traverse for 19" installation (1 piece)	Glass door with air vents	Ventilated door
Dimensions					
HxWxD = 1200x650x1000	31-6601-02	31-6120-24	31-6120-00	31-6612-11	31-6612-12
HxWxD = 2000x650x1000	31-6610-10	31-6120-42	31-6120-00	31-6620-11	31-6620-12
HxWxD = 2000x800x1000	31-6810-10	31-6120-42	31-6120-01	31-6820-11	31-6820-12
Item no.:	12	13	14	15	16
Individual parts	Floor panel* type 1	Floor panel* type 2	Stationary base, tip-proof	Castor set for stationary base, tip-proof	Base corner set (= 4 corners)
Dimensions					
HxWxD = 1200x650x1000	31-6110-01	31-6110-03	31-6026-11	31-6026-50	31-6026-20
HxWxD = 2000x650x1000	31-6110-01	31-6110-03	31-6026-11	31-6026-50	31-6026-20
HxWxD = 2000x800x1000	31-6110-02	31-6110-18	31-6028-11	31-6026-50	31-6026-20

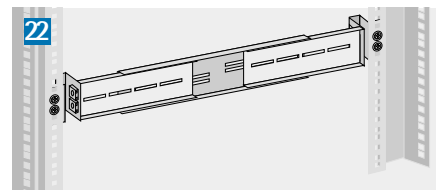


19" VARIRack cabinet system • 316

Design your own customized cabinet.
Select your required cabinet components one at a time.



Item	Description
1	Rack
2	Vertical mounting
3	Traverse for 19" installation
4	Ventilated glass door
5	Perforated-panel door
6	Single door for two-section front
7	Single door for three-section front
8	Side panel D=650mm (one multifunctional traverse (item 10) per side is required)
9	Side panel D=350mm
10	Multifunctional traverse
11	Roof
12	Floor plate, type 1
13	Floor panel, type 2
14	Stationary base, tip-proof
15	Castor set for base (item 14) tip-proof
16	Base corners
17	Base panel, solid
18	Base panel for cable entry
19	Base panel, solid (D=1000mm)
20	Shelf without 19" extension
21	Shelf for 19" extension (4 vertical mountings are required for assembly)
22	Server mounting rails (for installing 19" servers with three-piece extender in the server cabinet; not shown in the exploded view).



cabinet modular construction

6	7	8	9	10	11
Ventilated single door for two-section front	Ventilated single door for three-section front	Side panel, type 1 D = 650mm	Side panel, type 2 D = 350mm	Multifunctional traverse	Roof
-	-	31-6612-03	31-6613-03	31-6121-02	31-6020-60
31-6605-12	31-6606-12	31-6620-03	31-6621-03	31-6121-02	31-6020-60
-	-	31-6620-03	31-6621-03	31-6121-02	31-6020-80
17	18	19	20	21	22
Base panel, solid	Base panel for cable entry	Base panel solid (D = 1000mm)	Shelf without 19" extension(fixed)	Shelf for 19"extension (4 vertical mountings)	Server mounting rails
31-6100-10	31-6100-92	31-6101-10	31-6036-10	31-6036-88 (fixed)	31-6546-00
31-6100-10	31-6100-92	31-6101-10	31-6036-10	31-6036-89	31-6546-00
31-6100-04	31-6100-94	31-6101-10	-	(extractable)	31-6546-00



19" NETrack cabinet system

Netrack's solid and easy-to-assemble construction make it ideal for multiple industrial and network applications.

NETrack®



The stable cabinet rack with welded frames can be assembled and dismantled quickly since it only requires one screw per corner. Problems at sites with narrow doors, stairways or lifts are in the past thanks to this cabinet system. The high degree of protection of up to IP 54 protects your components from damage even in a rough industrial environment and ensures that your equipment will function properly. We have a large selection of parts for individual configurations in addition to our complete solutions, including

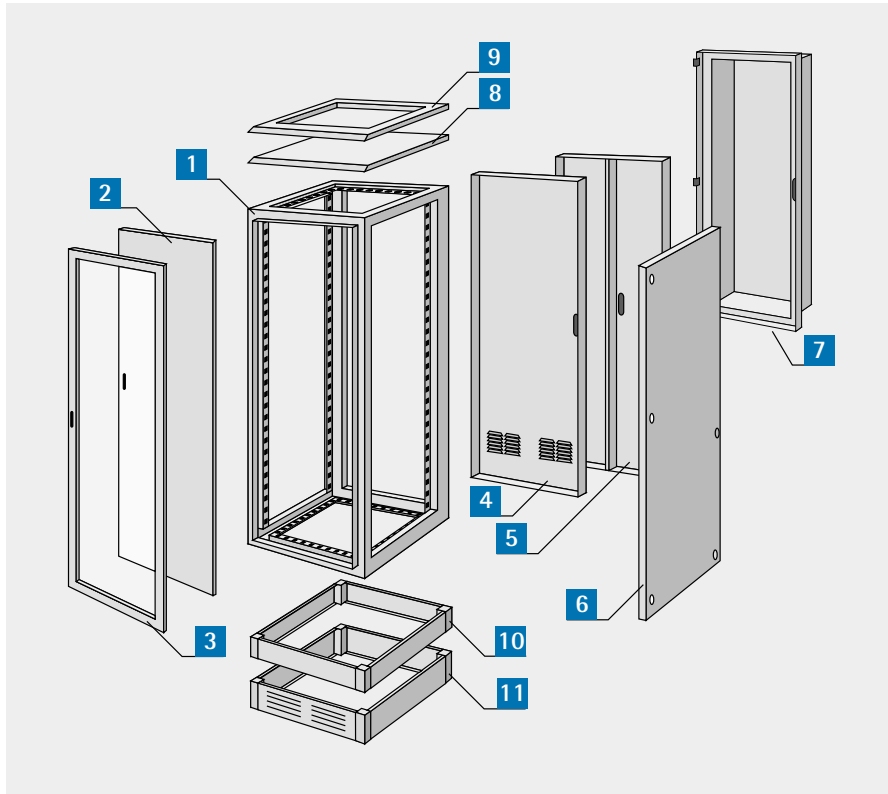
- 19" standard cabinet
- 19" computer cabinet
- 19" server cabinet
- 19" LAN cabinet, active/passive
- 19" LAN cabinet, "cool box"



315 • 19" NETrack® cabinet system



Specifications



Application:

The modular construction and many accessories make this cabinet system suitable for multiple uses. It can serve as a switch cabinet, 19" built-in cabinet, computer cabinet, server cabinet, EMC cabinet, modem cabinet or active/passive LAN cabinet.

Construction:

One front and one back welded frame are connected to deepening brackets by only 8 screws. The vertical brackets have metric grid perforations.

Finish:

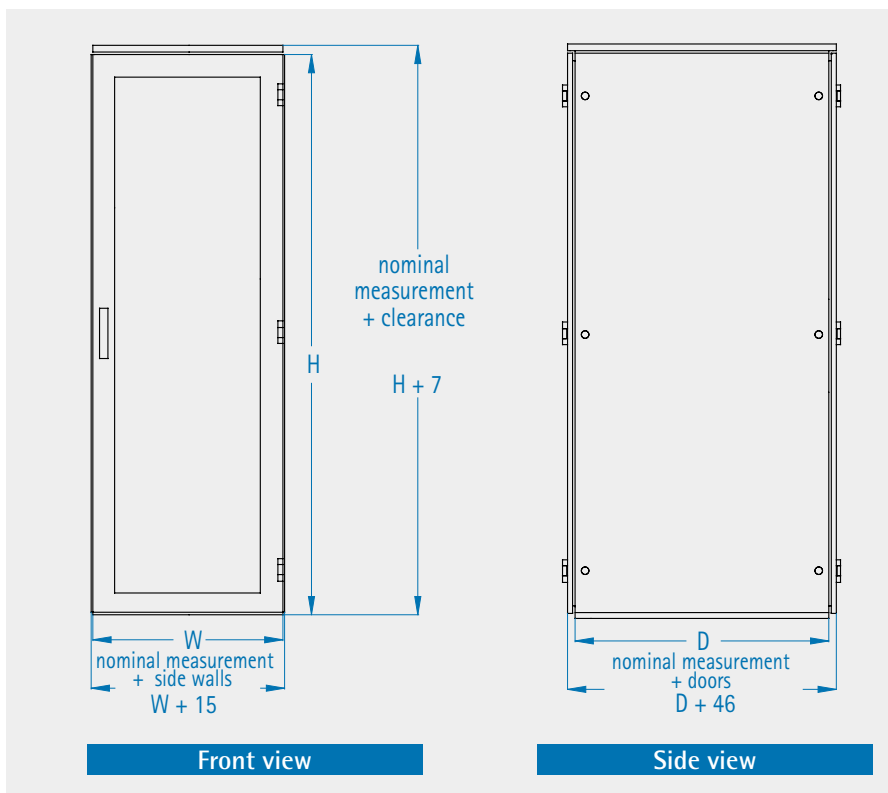
RAL 7032 pebble grey

Degree of protection:

IP 54 (closed design)

Standards:

Outer dimensions in compliance with IEC 297-2
Installation dimensions in compliance with IEC 297-1



Item	Description
1	Rack
2	Door, solid
3	Door with safety glass
4	Door, ventilated
5	Door, divided
6	Side panel
7	Extended door (100mm)
8	Roof
9	Top panel with cut-out
10	Base, solid
11	Base, ventilated



Complete solutions:

19" standard cabinet 315

- includes cover pieces
- glass door with turning lever lock and 3-point lock
- vertical mountings, front and rear
- IP 54 degree of protection
- removable roof

Finish:

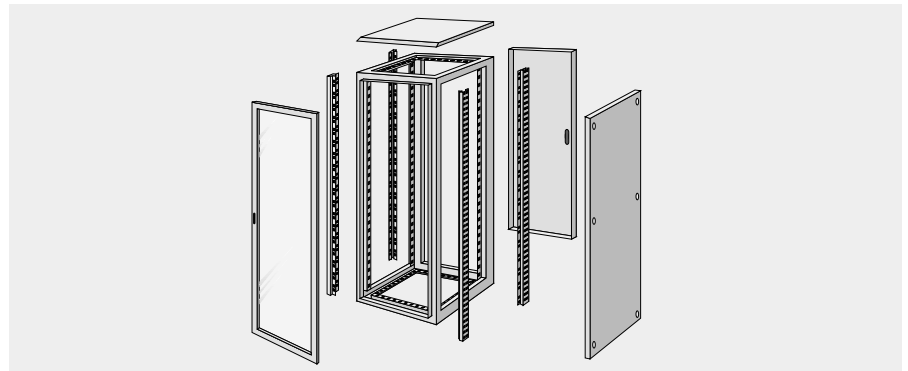
RAL 7032 pebble grey

Delivery:

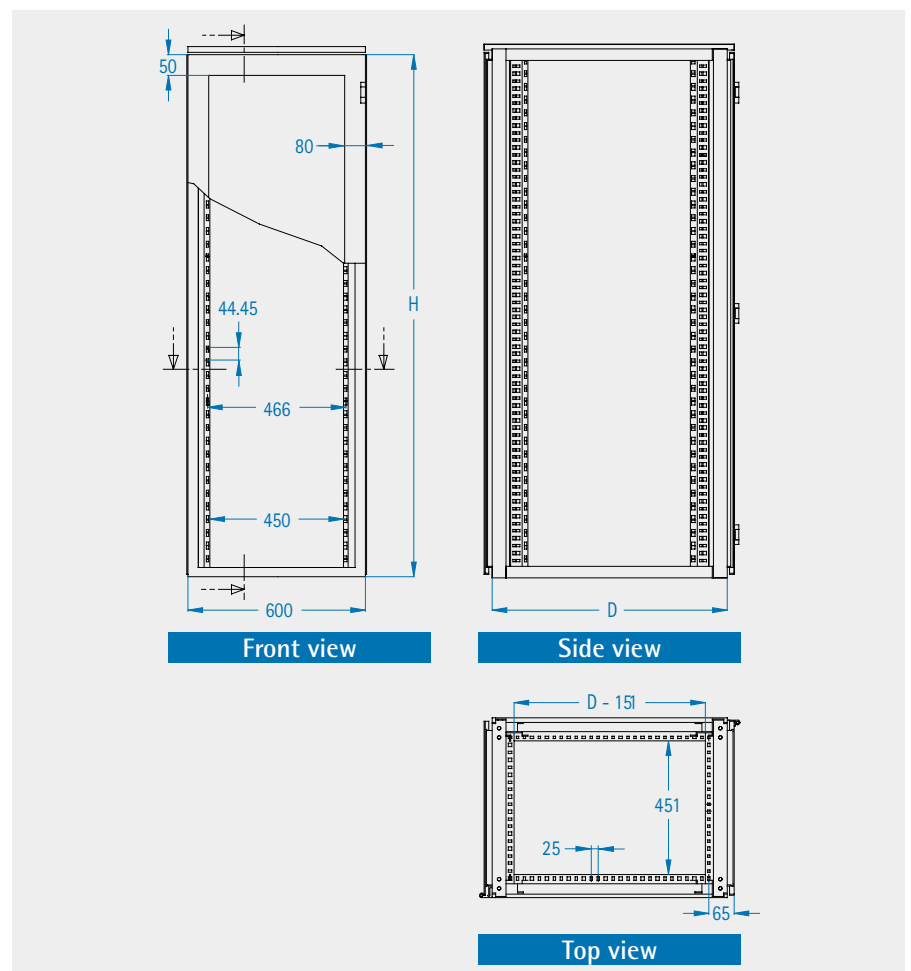
completely assembled

Included in delivery

Pc.	Description
1	Rack
2	Side panels, removable
1	Front door with glass pane safety glass, turning lever lock and 3-point lock
1	Roof, removable
4	Vertical mounting
1	Rear door, closed, turning lever lock and 3-point lock



Specifications



Order information

Note:

- order floor cover plates separately (see p. 1.43)
- Individual configuration begins on page 1.38
- other colours available on request

Cabinet height (H) mm	U	W x D mm	Part no.
1600	33	600 x 600	315-016
1800	38	600 x 600	315-018
2000	42	600 x 600	315-020
1600	33	600 x 800	315-026
1800	38	600 x 800	315-028
2000	42	600 x 800	315-030



19" computer cabinet

Computer-controlled manufacturing processes (CAM/CIM) require specific solutions for system-compatible storage of computer units and other hardware components. Your equipment must be protected from exterior influences like dust and moisture.



Sample configuration

19" computer cabinet

- stable welded-frame construction
- cabinet rack can be dismantled quickly (only 1 screw per corner)
- side panels are easy to remove
- integrated cable entry opening in cabinet floor
- installation dimensions in compliance with IEC 297-1
- base (H=100mm), with panels for cable entry on all four sides
- practical snap lock on doors
- front doors (upper/lower) opened from behind the keyboard

Using cabinet system 315 as a base, you have the freedom to install the components of your choice such as IPC plug-in units, a monitor, TFT displays, shelves, a printer, a mouse, a standard PC or other individual components.

You will be impressed by the high-quality workmanship and the ergonomic design.

We will gladly design your individual computer cabinet.



Specifications

Application:

Computer terminal in a rough industrial environment (IP 54); ideal when combined with our monitor or TFT display plug-in units

Finish:

RAL 7035 light grey
Front panel: RAL 7037 dust grey

Degree of protection:

IP 54

Standards:

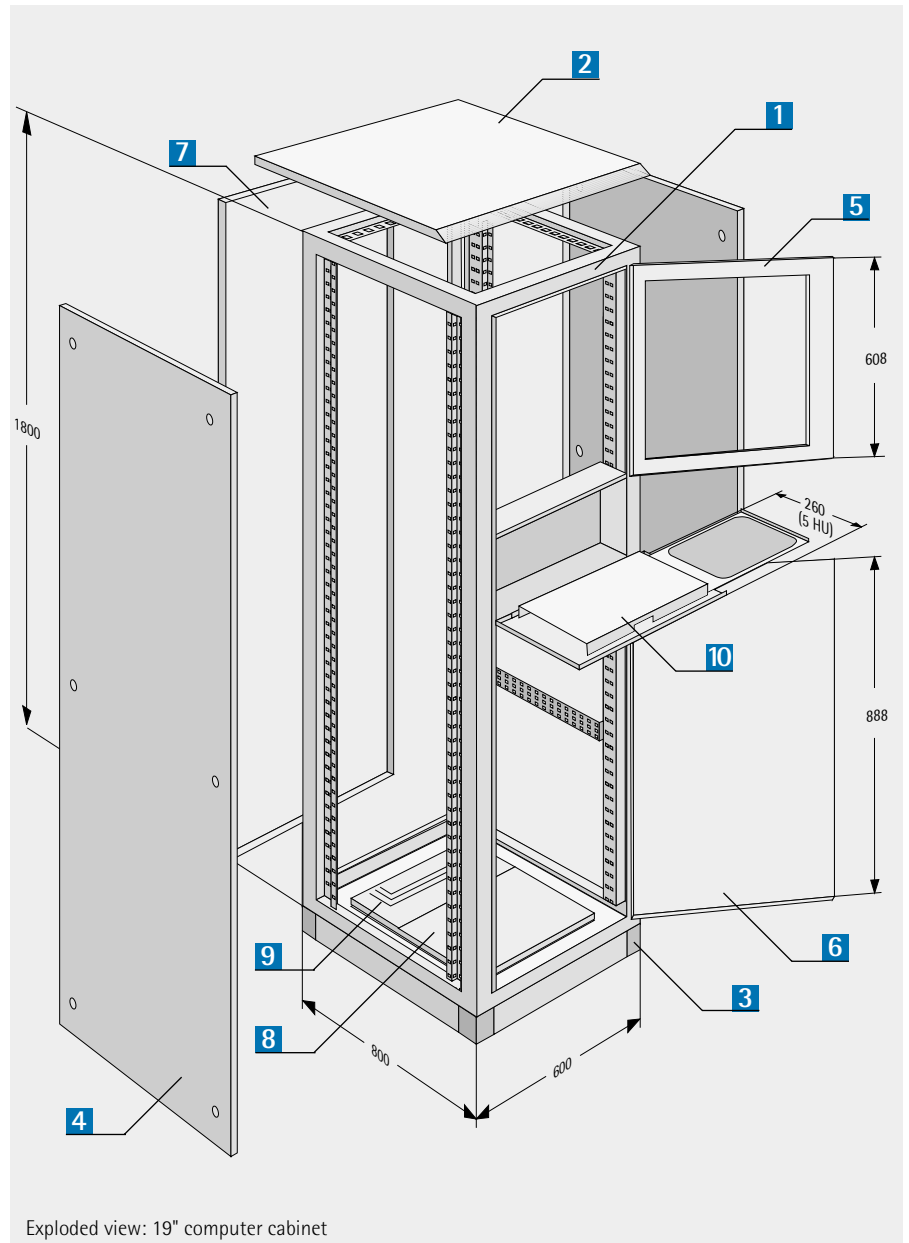
Installation dimensions in compliance with IEC 297-1

Delivery:

completely assembled

Included in delivery

Item	Pc.	Description
1	1	Rack
2	1	Roof, removable
3	1	Base, with panels on all four sides for cable entry
4	2	Side panels, removable
5	1	Front door, upper, with glass pane
6	1	Front door, lower, solid
7	1	Rear door, solid
8	1	Floor panel, solid
9	1	Floor panel, with cable entry
10	1	Keyboard tray with mousepad station
11	1	M5 screw set (50 pc.)



Exploded view: 19" computer cabinet

Order information

- Matching 19" plug-in units → see p. 4.1
- Matching 19" subracks → see p. 5.1
- Matching network components → see p. 9.1

Description	H x W x D	Part no. (1 piece)
Computer cabinet	1900 x 600 x 800 (incl. base)	31-5175-00
Vertical mounting, 12 U (for installation behind the upper front door)	12 U	315-527
Vertical mounting, 18 U (for installation behind the lower front door)	18 U	315-529
Vertical mounting, 38 U (for installation at the rear)	38 U	315-538



19" server cabinet

Server cabinets protect hardware and software and ensure optimum air-conditioning.

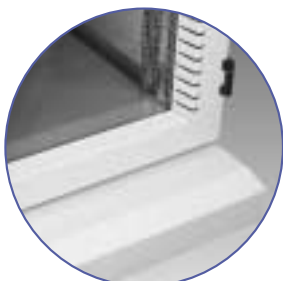


apra-norm has developed a server cabinet that meets these demands without compromise. The front glass door has a recessed panel and provides room on the side for ventilation. The perforated rear door allows heated air to escape from the cabinet. The server cabinet has a front and rear 19" 42 U mount and can hold server components such as computer plug-in units, RAID systems, etc.

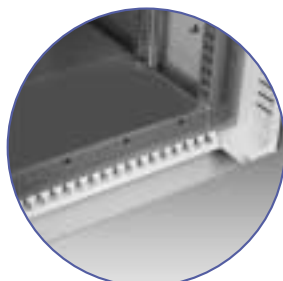
Note:

- The maximum distance between the front and rear 19" mounts is 700mm. Please keep this measurement in mind when selecting your cabinet. We also offer individual solutions for rack systems.

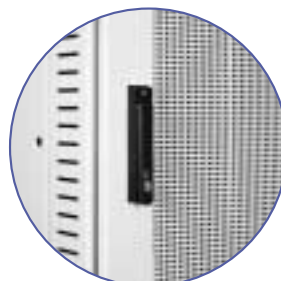
Features



Integrated base



Integrated cable entry opening



Perforated rear door

19" server cabinet, 42 U

- stable welded-frame construction
- cabinet rack, can be assembled very quickly
- 19" extension with adjustable mounting depth
- all inner extension parts are galvanized
- optimum ventilation through
 - front door with side vents from top to bottom
 - rear door with perforated panel
 - additional ventilation frame with vents
- side panels are easy to remove
- integrated cable entry openings with tension relief in cabinet floor
- built-in earthing kit
- installation dimensions in compliance with IEC 297-1
- doors with turning lever lock, 3-point lock and 180° hinges



Specifications

Application:

Server cabinets are used for server or RAID applications because the high heat produced by the many disk drives must exit the cabinet

Finish:

RAL 7032 pebble grey
(galvanized interior)

Standards:

installation dimensions in compliance with IEC 297-1

Delivery:

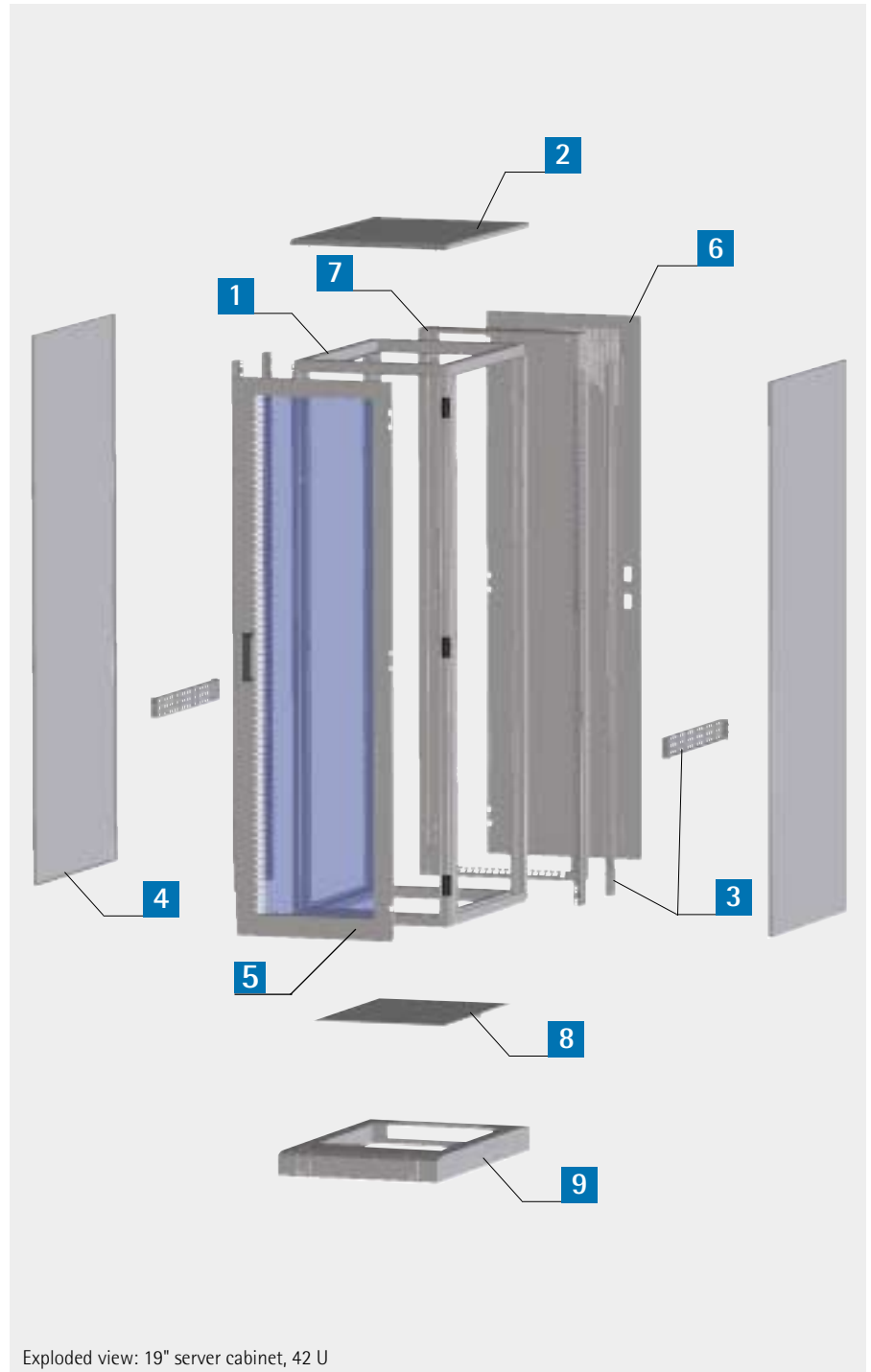
assembled, in stock

Outer dimensions (H x W x D):

2000mm (+ 100mm base) x 600mm x 900mm

Included in delivery

Item	Pc.	Description
1	1	Rack
2	1	Roof, removable
3	1	19" extension, front and rear
4	2	Side panels, removable
5	1	Front door, ventilated with panel
6	1	Rear door, ventilated
7	1	Frame, rear, with vents
8	2	Floor panels, solid
9	1	Base, tip-proof
10	1	Earthing kit
11	1	M5 screw set (50 pc.)



Exploded view: 19" server cabinet, 42 U

- Matching 19" plug-in units → see p. 4.1
- Matching 19" subracks → see p. 5.1
- Matching network components → see p. 9.1

Order information

Description	H x W x D mm	Part no.
Server cabinet	2000 x 600 x 900	31-5000-50
Matching castor set	H = 110	31-6026-50



... perfectly equipped

apra-norm offers perfectly equipped network cabinets for structured cabling. Our NETrack LAN cabinet provides ideal installation conditions and organized cable management for all primary, secondary and tertiary component cables. Active and passive 19" non-standardized components can be installed in the NETrack.



Sample configuration

19" LAN network cabinet

- stable welded-frame construction
- cabinet rack, can be assembled very quickly
- all inner extension parts are galvanized
- 19" mount with adjustable mounting depth
- doors with turning lever lock, 3 point lock and 180° hinge
- 2 models are available
 - passive
 - active

You can choose from our standard cabinets 315-097, which are designed for passive applications and from cabinets 31-5000-01, which have fans, power strips and shelves and are thus ideal for your active components. Or you can create your own LAN cabinet from the individual configurations beginning on page 1.38.



19" LAN cabinet, active

- ventilated rear door with vents and filter set
- 19" extension, 42 U front and rear
- 19" shelf, perforated, capacity to 50kg
- power strip, 7 sockets
- preconfigured fan unit with thermostat
- top panel for high-capacity ventilation and cable entry

Finish:

RAL 7032 pebble grey

Delivery:

assembled, in stock

Outer dimensions (H x W x D):

2000mm (+ 100mm base) x 800mm x 800mm

Included in delivery

Item	Pc.	Description
1	1	Rack
2	1	Top panel with cut-out for cable entry and ventilation
3	1	19" extension, 42 U front and rear
4	2	Side panels, removable
5	1	Front door with glass pane
6	1	Rear door, ventilated, with 2 fan supports and filter mat
7	1	Cover plate, solid
8	1	Base (H=100mm) solid
9	1	Thermostat, 230V
10a	1	Cover plate for fan unit
10b	1	Fan unit with 3 factory-mounted and wired fans (flow rate: 3 x 160m ³ /h)
11	1	Earthing kit
12	1	Perforated shelf, fixed
13	10	Cable guide, side
14	1	Power strip, seven sockets (with mounting kit for vertical mounting)
15	1	M5 screw set (50 pc.)



Floor cover plates are not included.

You receive a complete cabinet, which simplifies planning and on-site work.

The increasing amount of items fit into current cabinet systems increase the need for heat dissipation.

This active LAN cabinet meets these growing demands. Equipped with a fan unit, it maintains a constant low temperature inside the cabinet, thus creating the basic conditions for a reliable network.

Part no. 31-5000-01

Matching accessories

see p. 1.38



315 • 19" NETrack® LAN cabinet, passive



Floor cover plates are not included.

19" LAN cabinet, passive

- folding cabinet rack
- front safety glass door with three-point lock
- solid rear door with three-point lock
- two removable side panels
- removable top panel
- solid base, 100mm high
- 19" extension, 42 U, front
- 10 cable brackets, side, on 19"-frame
- Earthing kit

Finish:

RAL 7032 pebble grey

Material:

sheet steel

Delivery:

assembled, in stock

Outer dimensions (H x W x D):

2000mm (+ 100mm base) x 800mm x 800mm

Matching accessories

see p. 1.38

Included in delivery

Item	Pc.	Description
1	1	Rack
2	1	Roof, removable
3	1	19" extension, 42 U, front
4	2	Side panels, removable
5	1	Front door with glass pane
6	1	Rear door, solid
7	1	Base (H=100mm) solid
8	1	Earthing kit
9	10	Cable guide, side
10	1	M5 screw set (50 pc.)

Part no.

315-097



19" NETrack® LAN cabinet "cool box" • 315

19" LAN cabinet, "cool box"

- folding cabinet rack
- front safety glass door with three-point lock
- integrated air conditioner 1000W cooling capacity with L35/L35 for mounting on side panel

Finish:

RAL 7032 pebble grey

Material:

sheet steel

Delivery:

completely assembled

Outer dimensions (H x W x D):

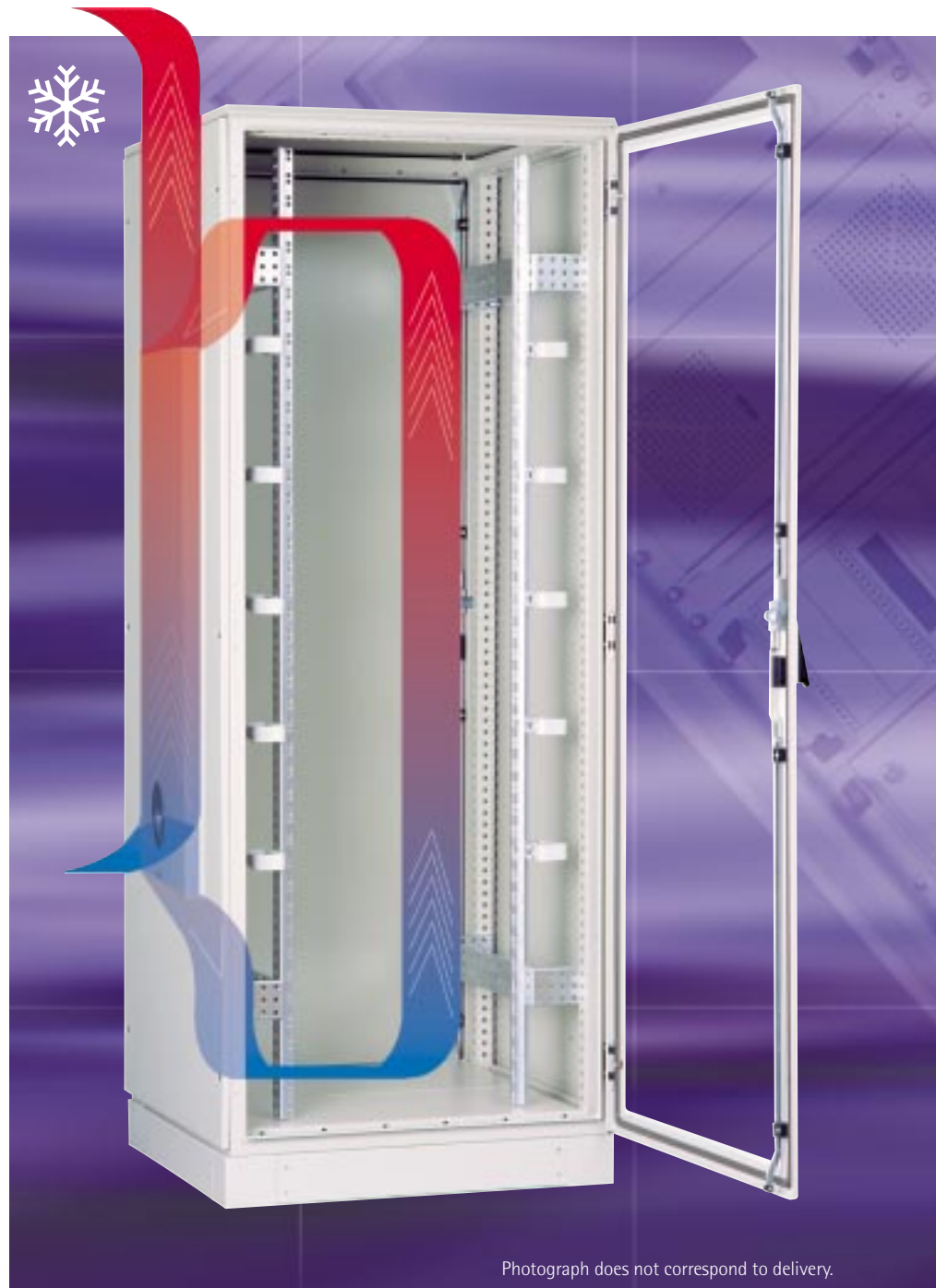
2000mm (+ 100mm base) x 800mm x 800mm

Matching accessories

see p. 1.38

Included in delivery

Item	Pc.	Description
1	1	Rack
2	1	Roof, removable
3	1	19" extension, front and rear
4	2	Side panels, removable
5	1	Front door with glass pane
6	1	Rear door, solid
7	1	Cover plate, solid
8	1	Earthing kit
9	1	Base, solid H = 100mm
10	10	Cable clip
11	1	Power strip, 7 sockets
12	1	Cover plate with cable entry
13	1	M5 screw set (50 pc.)
14	1	Air-conditioner, 1000W



Photograph does not correspond to delivery.

A large concentration of equipment and peak temperatures over 50°C in current LAN cabinet systems increase the chance of failure and decrease the service life of components. The 19" LAN cabinet "cool box" solves this problem. Actively cooling the cabinet reduces the inside temperature below the ambient temperature.

The interior and exterior cooling circuits are separated so that no dust enters the cabinet. The air-conditioner has an output of 1000W (with L35/L35) and is large enough for standard applications. Our team of specialists can of course develop a customized solution for your special application needs.

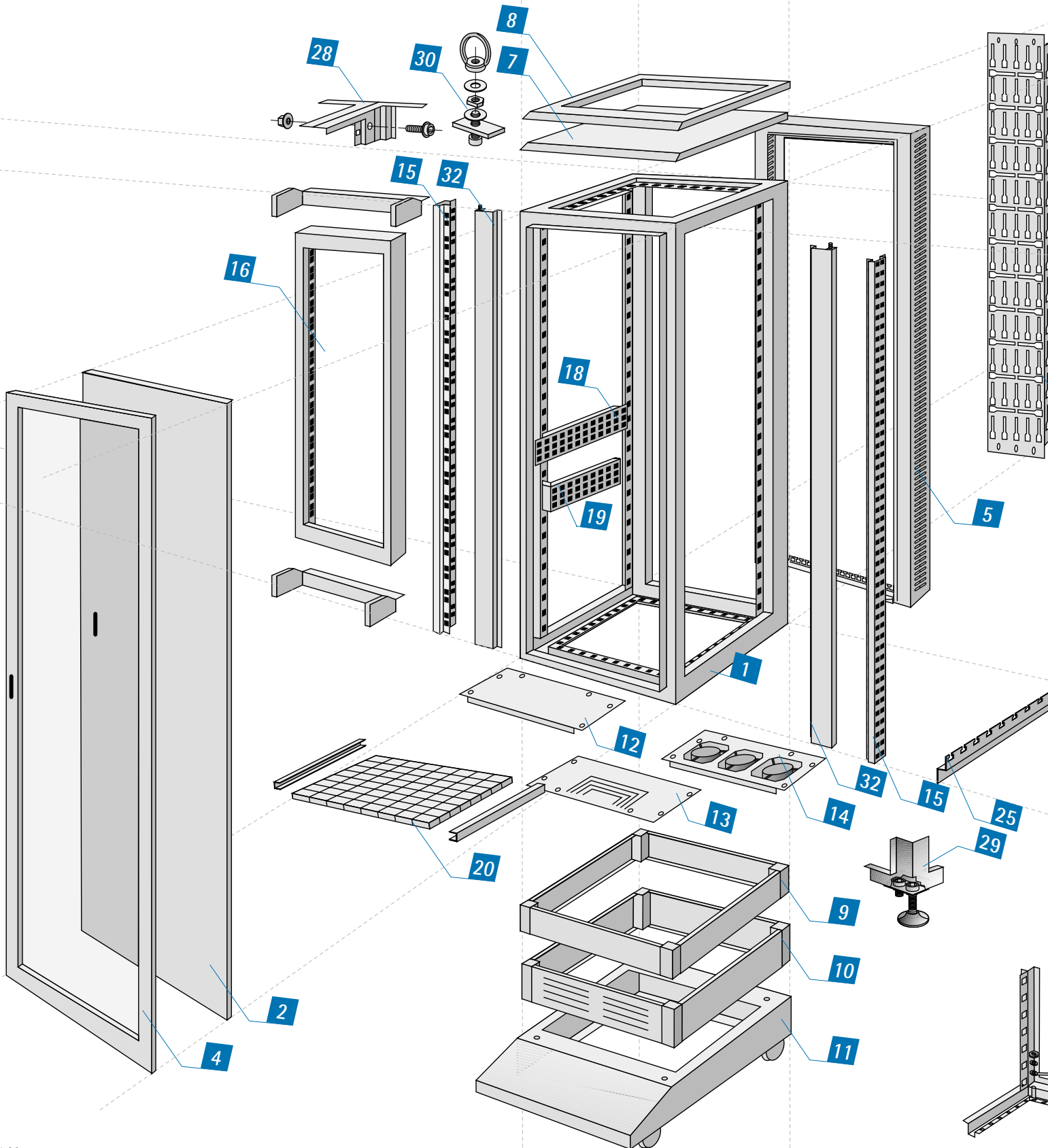
Part no.

31-5000-60

Note: Other air-conditioning options are available upon request.

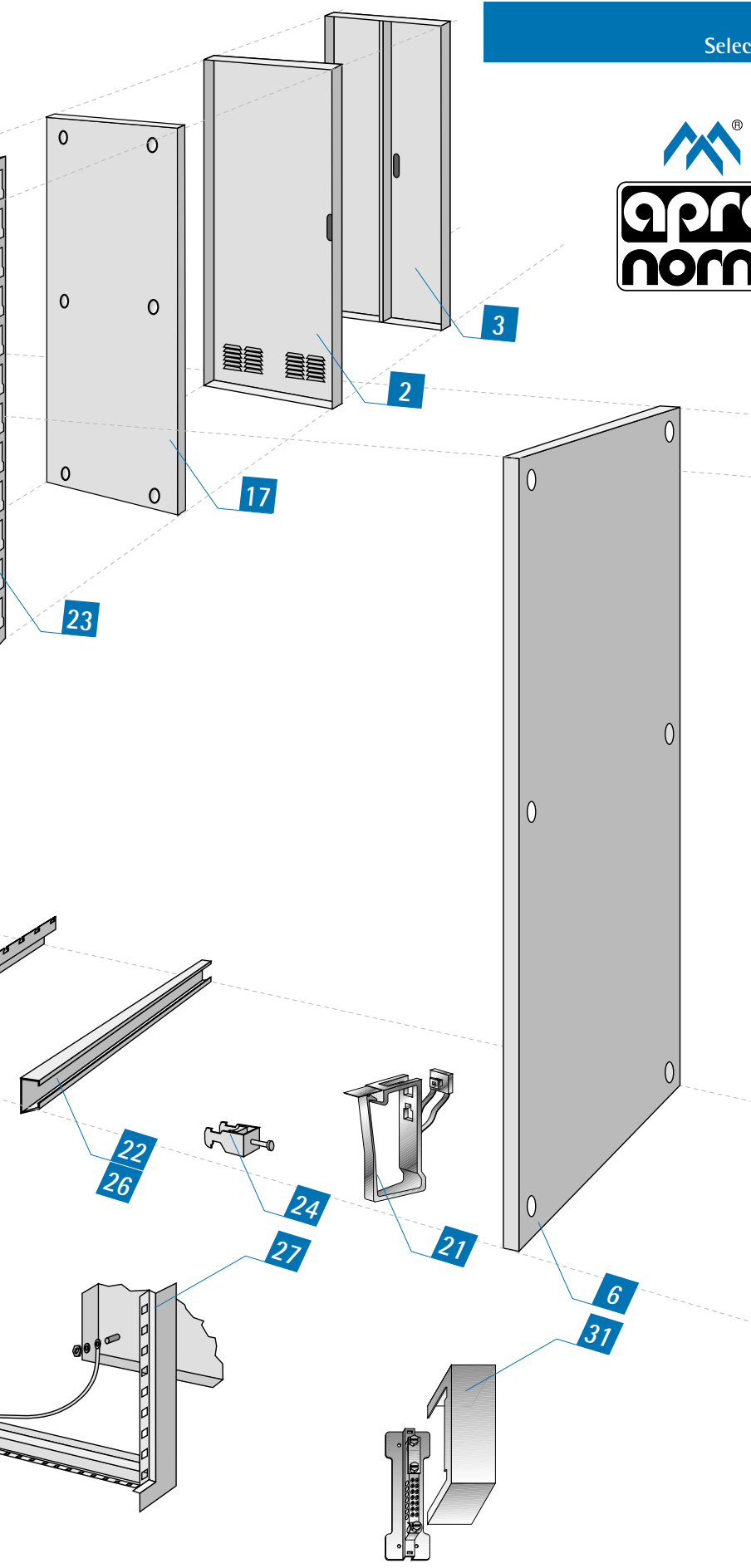


Individual configuration:





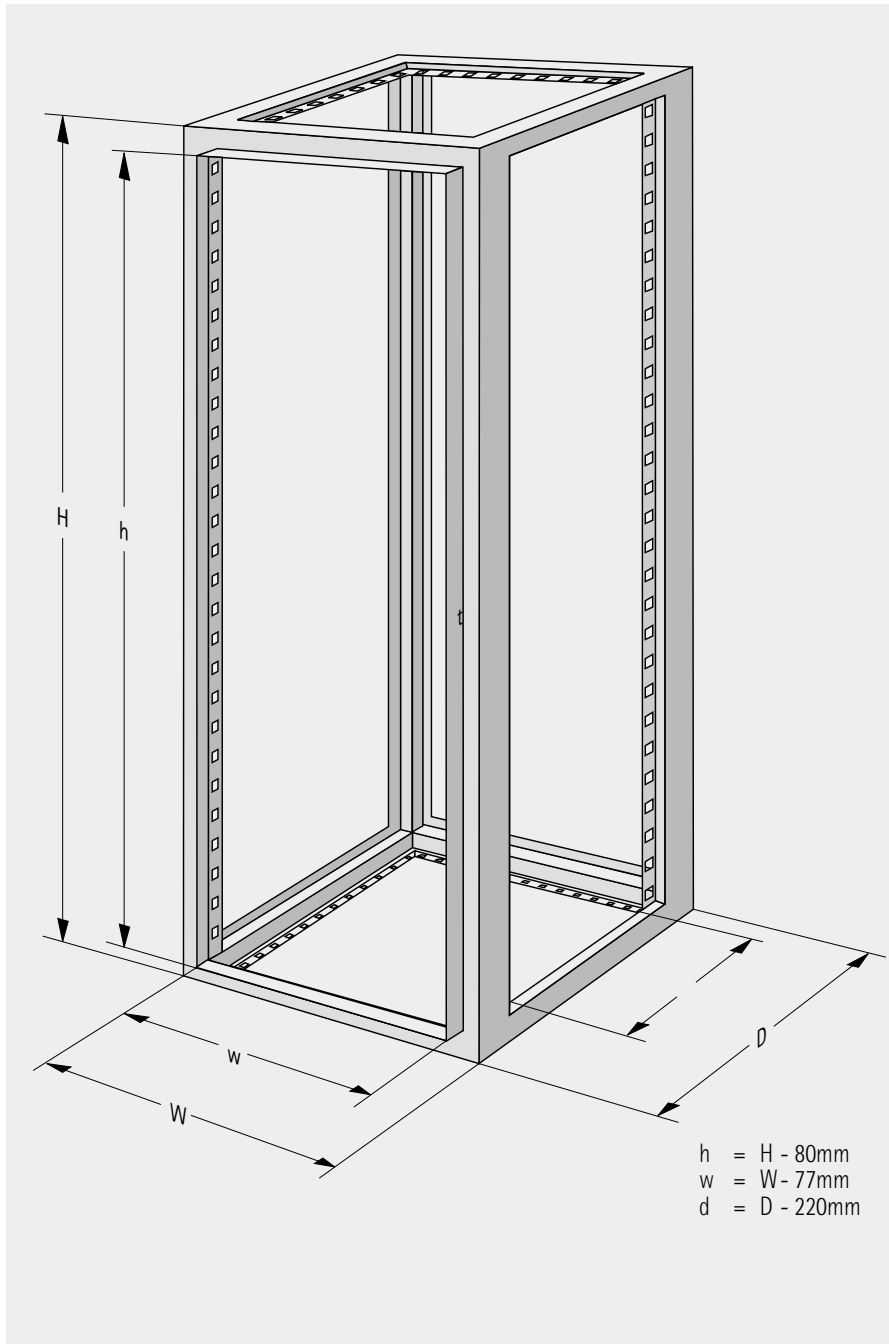
Design your own customized cabinet.
Select your required cabinet components one at a time.



Item	Description	Page
1	Rack	1.40
2	Door, solid/ventilated	1.41
3	Door, divided	1.41
4	Door with safety glass	1.41
5	Attachment frame	1.42
6	Side panel	1.42
7	Roof, solid	1.42
8	Top panel with cut-out	1.42
9	Stationary base	1.44
10	Base, ventilated	1.44
11	Base on castors	1.44
12	Cover plate, solid	1.43
13	Cover plate for cable entry	1.43
14	Cover panel for fan module	1.43
15	Vertical mounting	1.45
16	Hinged frame	1.46
17	Mounting panel	1.49
18	Traverse, side	1.46
19	Reducing traverse, side	1.46
20	Shelves	1.48
21	Cable hoop	1.47
22	Cable duct, side	1.47
23	Cable ladder	1.47
24	Clamp	1.47
25	Cable management bracket	1.47
26	Cable duct, lateral	1.47
27	Earthing kit	1.49
28	Cabinet connector set	1.49
29	Adjusting foot	1.44
30	Lifting eye bolt	1.49
31	Tension balancing rail	1.49
32	Panel, side	1.49



315 • 19" NETrack® cabinet system



1 Rack

- rack can be dismantled since it has only 1 screw per corner
- consists of a front and rear welded frame and 4 deepening supports

Finish: RAL 7032 pebble grey

Material:
sheet steel

Delivery:
completely assembled

(WxD) mm:	Cabinet height (H) mm:	Part no.
600 x 600	1600	315-220
600 x 800	1600	315-223
800 x 600	1600	315-226
800 x 800	1600	315-229
600 x 600	1800	315-221
600 x 800	1800	315-224
800 x 600	1800	315-227
800 x 800	1800	315-230
600 x 600	2000	315-222
600 x 800	2000	315-225
800 x 600	2000	315-228
800 x 800	2000	315-231



Doors

- left or right stop
- three-point lock
- pivot lock with profile semi-cylinder lock
- fits into profile semi-cylinder
- 180° door opening angle

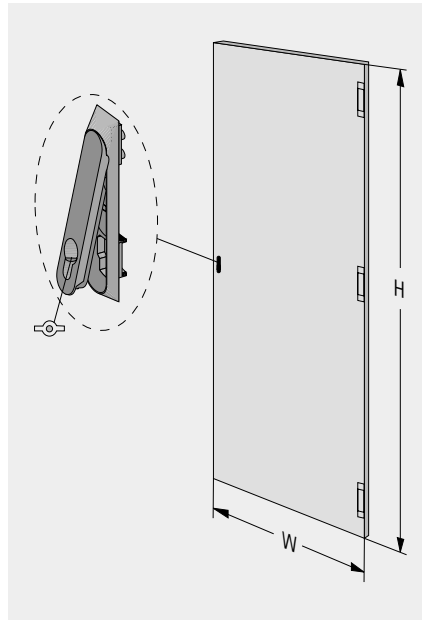
Finish:

RAL 7032 pebble grey

Material:

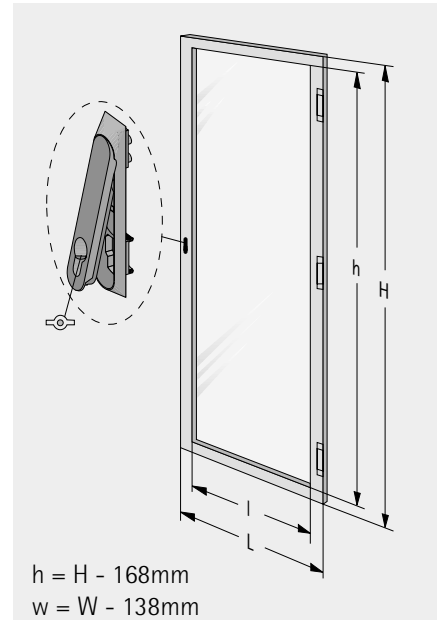
sheet steel
safety glass pane, 4mm

2 Door, solid



Height (H) mm	Part no. B = 600mm	Part no. B = 800mm
1600	315-446	315-456
1800	315-448	315-458
2000	315-450	315-460

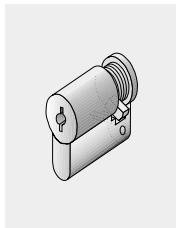
4 Door with safety glass



Height (H) mm	Part no. B = 600mm	Part no. B = 800mm
1600	315-356	315-376
1800	315-358	315-378
2000	315-360	315-380

Profile semi-cylinder

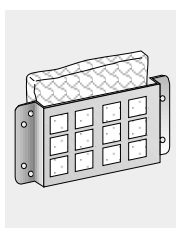
- for subsequent retro-fitting on **locking** doors with turning lever lock
- incl. 2 keys



Part no.
676-062

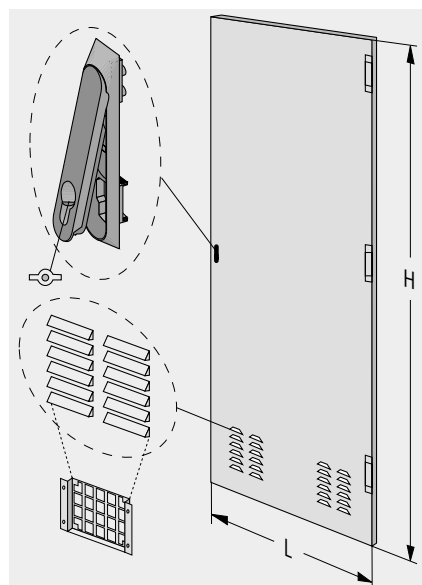
Filter set for ventilated door

The filter set allows you to mount a filter and a fan directly behind the vents. One filter set fits 2 vent areas = 1 rear door.



Part no.
312-822

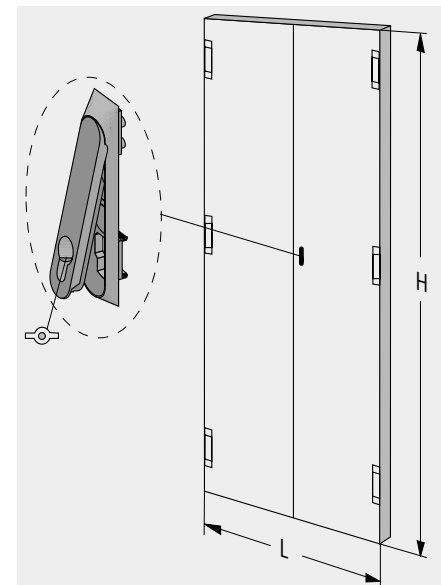
2 Door, ventilated



- right stop only

Height (H) mm	Part no. B = 600mm	Part no. B = 800mm
1600	315-666	315-676
1800	315-668	315-678
2000	315-670	315-680

3 Door, divided

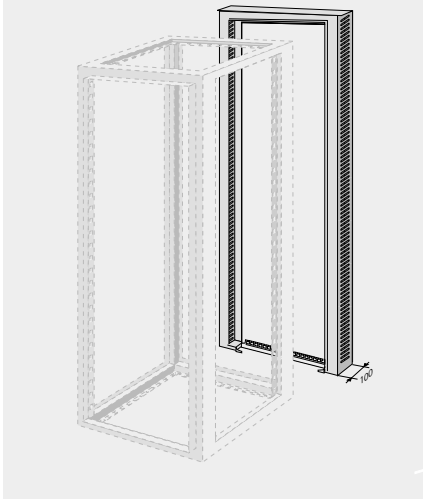


- for use in tight spaces

Height (H) mm	Part no. B = 800mm
1600	315-427
1800	315-429
2000	315-431



5 Attachment frame, 100mm



This frame attachment can be attached at the front or at the rear as a 100mm-deep adapter, thus increasing the entire front or rear cabinet depth by 100mm.

Finish: RAL 7032 pebble grey

Height (H) mm	Width (W) mm	Part no.
2000	600	31-5309-00
2000	800	31-5311-00

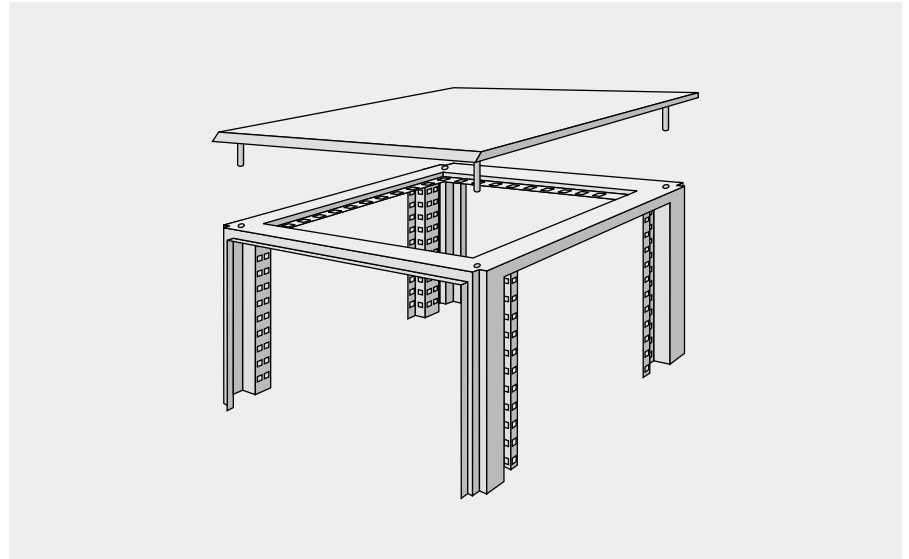
6 Side panel



• Assembled with 6 screws (included)
Finish: RAL 7032 pebble grey

Depth (D) mm	Height (H) mm	Part no.
600	1600	315-476
	1800	315-478
	2000	315-480
800	1600	315-576
	1800	315-578
	2000	315-580

7 Top panel, solid

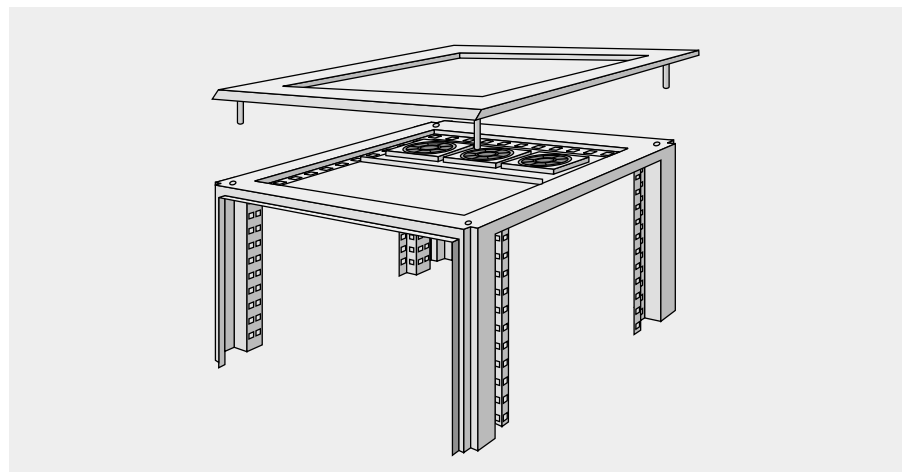


- can be removed for ventilation
- front edge is cut on the bias
- air space between the top panel and the frame can be set between 0 and 20mm

Finish: RAL 7032 pebble grey

Width (W) mm	Depth (D) mm	Part no.
600	600	315-510
600	800	315-509
800	600	315-513
800	800	315-511

8 Top panel with cut-out



- front edge of the top panel is cut on the bias
- allows cable entry from above and high-capacity ventilation
- the top opening can be covered with cover plates (see next page)

Finish: RAL 7032 pebble grey

Width (W) mm	Depth (D) mm	Part no.
600	600	315-555
600	800	315-556
800	600	315-557
800	800	315-558



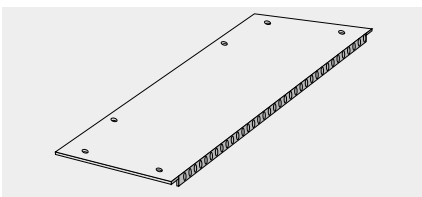
Cover plates

You can order the following cover plates in the respective sizes 1-4 for closing the top and bottom openings:

Finish:

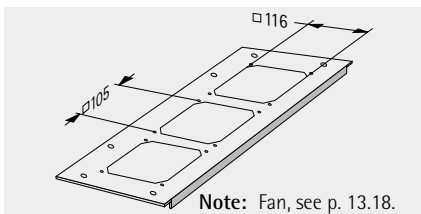
RAL 7032 pebble grey

12 Cover plate, solid



Size	Part no.
1	315-700
2	315-701
3	315-702
4	315-703

12 Ventilation panel



- with 3 fan cut-outs

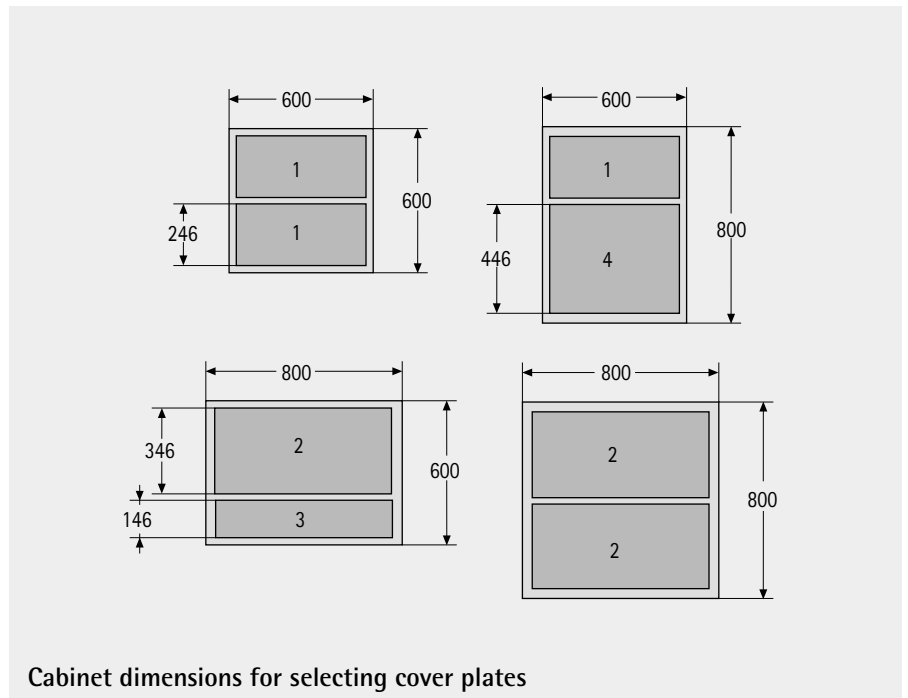
Size	Part no.
1	315-706
2	315-707

Fan module



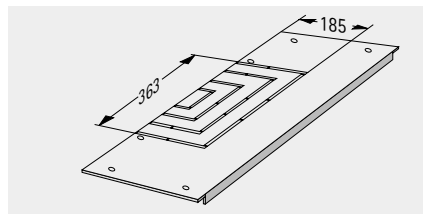
- fan module, completely prewired with a 2.5m connecting cable
- thermostat 0° to +60°C
- intake or exhaust, depending on installation direction

Description	Part no.
Fan module, 1 fan	23-0300-01
Fan module, 2 fans	23-0300-02
Fan module, 3 fans	23-0300-03



Cabinet dimensions for selecting cover plates

13 Cover panel for cable entry



- with a pre-punched cut-out system

Size	Part no.
1	315-704
2	315-705

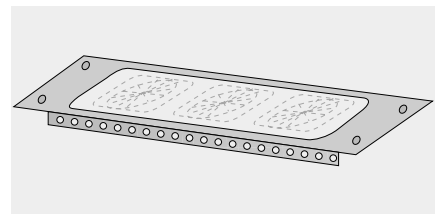
Fan module, speed-controlled



- fan module, completely prewired with a 2.5m connecting cable
- temperature sensor for speed control
- very quiet
- intake or exhaust, depending on installation direction

Description	Part no.
Speed-controlled fan module, 1 fan	23-0300-51
Speed-controlled fan module, 2 fans	23-0300-52
Speed-controlled fan module, 3 fans	23-0300-53

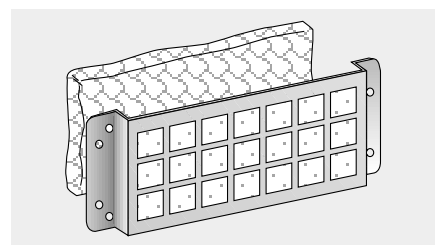
14 Cover panel for the fan module



- for integrating fan modules

Size	Part no.
1	31-5706-20
2	31-5707-20

Filter set for fan module



- incl. assembly material

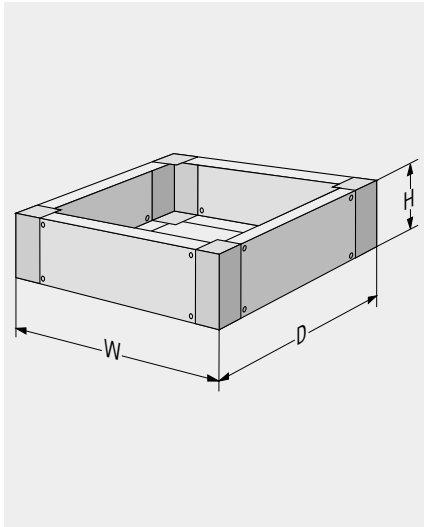
Material:

aluminium/filter fleece

Part no.
31-6100-99



9 Stationary base

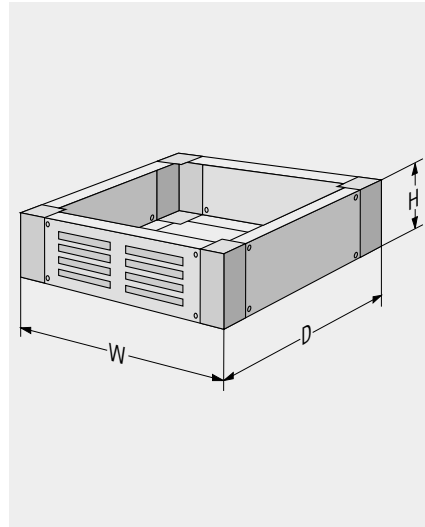


- stable, bolted design
- panels can be removed one at a time, allowing cables to be led in easily under the cabinet

Finish:
RAL 7032 pebble grey

Width (W) mm	Depth (D) mm	Height (H) mm	Part no.
600	600	100	315-327
800	600	100	315-347
800	800	100	315-727

10 Stationary base, ventilated

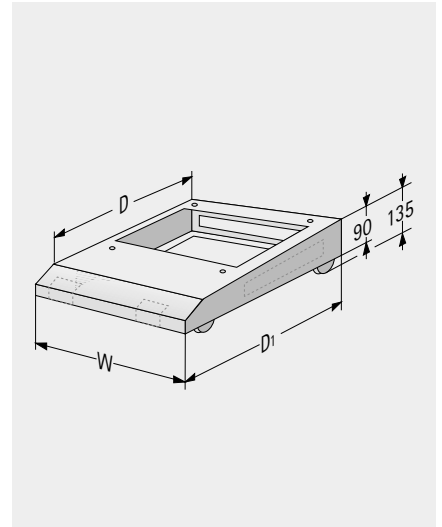


- stable, bolted design
- panels can be removed one at a time, allowing cables to be led in easily under the cabinet
- front panel, ventilated

Finish:
RAL 7032 pebble grey

Width (W) mm	Depth (D) mm	Height (H) mm	Part no.
600	600	100	315-326
800	600	100	315-346
600	800	100	315-626
800	800	100	315-726

11 Base on castors



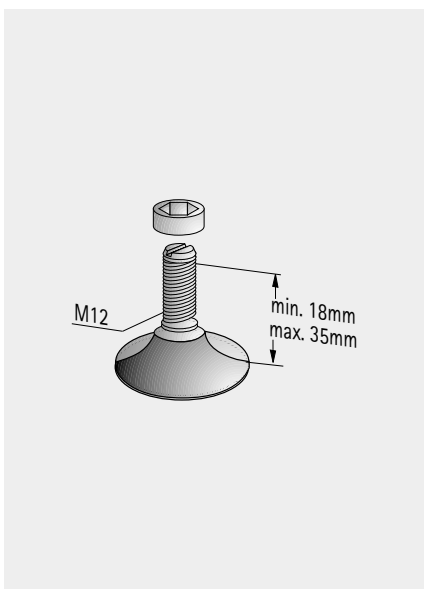
- base on castors with two swivel castors and two brake castors
- cable entry from rear or side
- side access opening easy to open
- rear access opening with brush

Carrying capacity: 300kg

Finish:
RAL 7032 pebble grey

Width (W) mm	Depth (D) mm	Depth (D1) mm	Part no.
600	600	750	31-5226-60
600	800	950	31-5226-80
800	600	750	31-5228-60
800	800	950	31-5228-80

29 Adjusting foot



- adjust the adjusting foot from inside the cabinet

Included in delivery

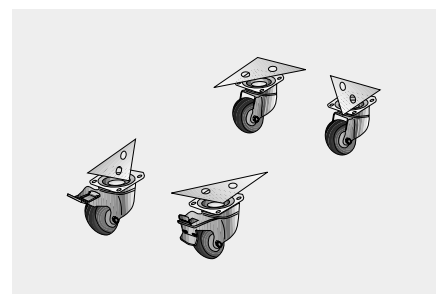
Item	Pc.	Description
1	1	Base panel for adjusting foot
2	1	Hexagon socket screw, M12 x 16
3	1	Washer
4	1	Adjusting foot

Part no. (1 piece)
315-550

- to attach to the rack with base

Part no. (1 piece)
312-550

Castor set



- to attach to the cabinet rack
- 2 swivel castors with brakes and 2 rigid castors

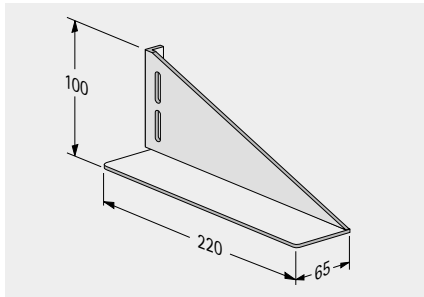
Carrying capacity: 220kg

Part no.
31-5728-00

Note: Higher carrying capacity on request!



Sliding rail for 19" vertical mounting



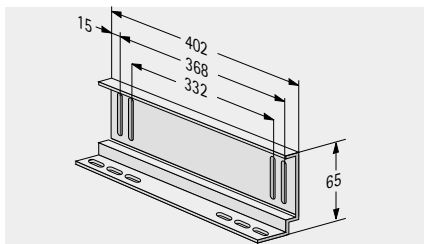
- capacity to 12kg
- only front 19" mount is required

Finish: galvanized

Material: sheet steel, 2mm, galvanized

Part no. (pair)
315-260

Sliding rail for 19" vertical mounting, screw-on

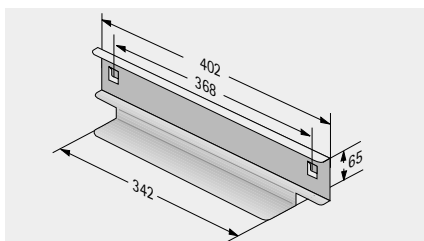


Sliding rails are hung on the 19" vertical mountings. They support heavy 19" plug-in units. Two 19" mounts are required for anchoring them.

Material: sheet steel, 2mm, galvanized

Depth (D)	Part no. (pair)
600	312-544

Sliding rail for 19" vertical mountings, hinged

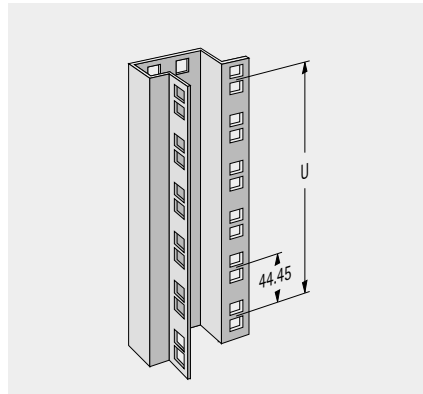


Sliding rails are hung on the 19" vertical mounts. They support heavy 19" plug-in units. Two 19" mounts are required for anchoring them.

Material: sheet steel, 1.5mm, galvanized

Depth (D)	Part no. (pair)
600	31-6544-00

15 19" vertical mounting



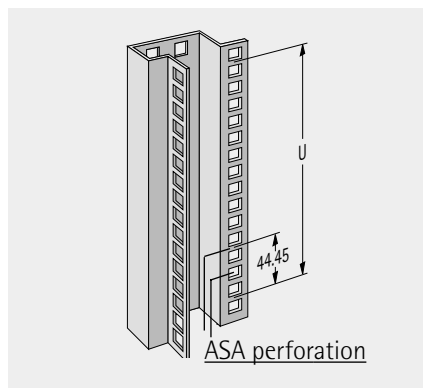
You must use reducing traverses when installing vertical mountings in 800mm-wide cabinets (see item 19).

- incl. assembly material

Finish: galvanized

Cabinet height (H) mm	U	Part no. (1 piece)
	6	315-524
	9	315-525
	12	315-527
	15	315-528
	18	315-529
	21	315-531
	24	315-532
1600	33	315-536
1800	38	315-538
2000	42	315-540

15 19" vertical mounting with additional 1/2-19" perforations (ASA)



You must use reducing traverses when installing vertical mountings in 800mm-wide cabinets (see item 19).

- incl. assembly material

Finish: galvanized

Cabinet height (H) mm	U	Part no. (1 piece)
1600	33	315-543
1800	38	315-541
2000	42	315-542

Sliding rail with adjustable depth

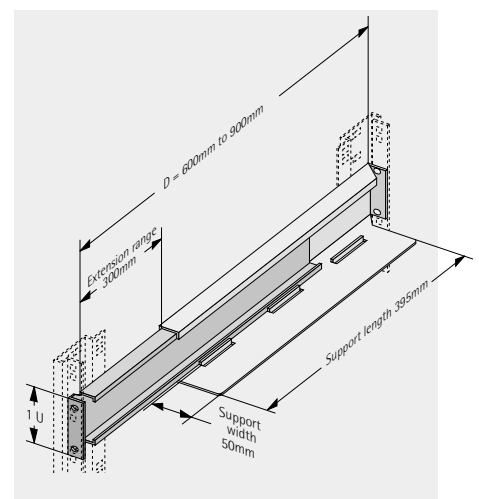
Sliding rails with adjustable depth can be used for all cabinets with a depth of 600mm to 900mm because their telescoping design allows them to be extended by 300mm.

- incl. assembly material

Finish: galvanized

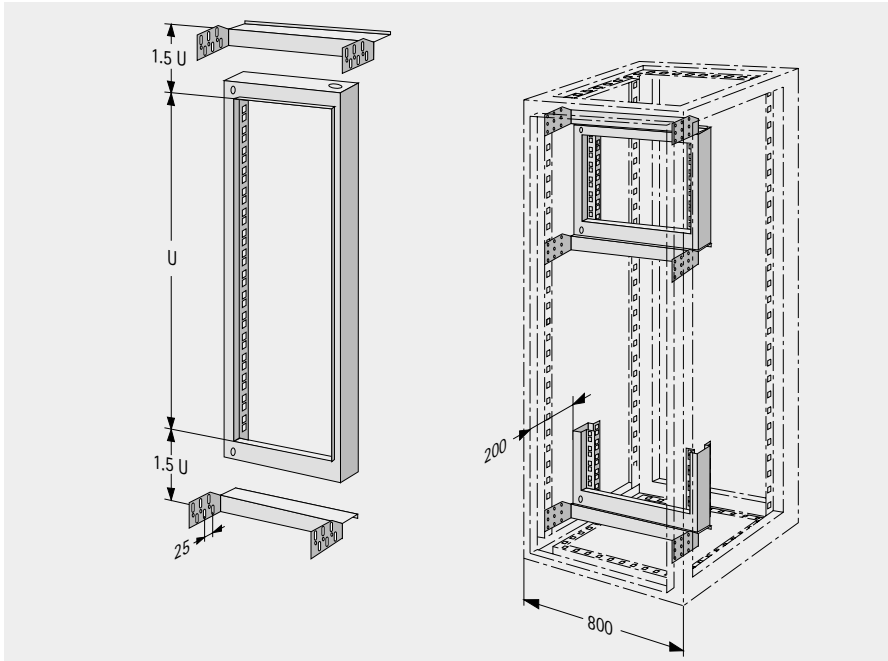
Material: sheet steel, 1.5mm

Part no. (pair)
31-5258-00





16 19" hinged frame



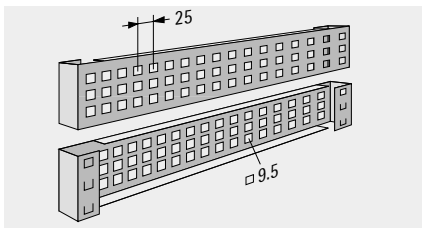
- for 800mm cabinet widths
- mounted 200mm behind the door
- can be set at different depths using deepening traverses
- centre or off-set mounting (shifted 30 or 60mm)

Plug-in depths:
 middle: 360mm
 shifted 30mm: 410mm
 shifted 60mm: 460mm

Included in delivery:
 frame with lateral traverses
Material: sheet steel
Finish: RAL 7032 pebble grey

for cabinet height (H) mm	U	Part no. (1 piece)
	6	315-261
	12	315-263
	15	315-264
	18	315-265
	21	315-266
	24	315-267
	27	315-268
1600	30	315-269
1800	34	315-271
2000	40	315-272

18 Traverse, side, hanging

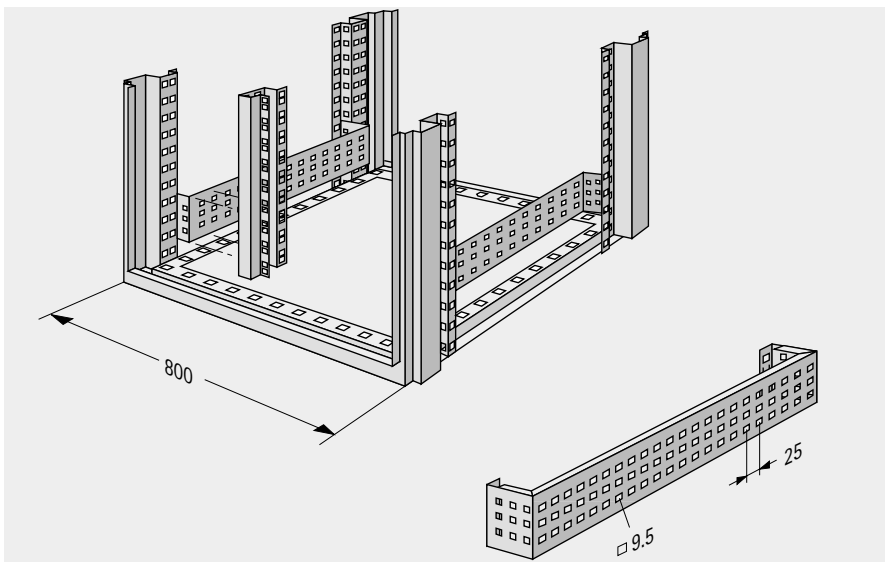


- for installing the vertical mounting with an adjustable mounting depth in 600mm-wide cabinets
- for installing hinged frames with an adjustable mounting depth in 800mm-wide cabinets
- for easily managing cables using cable ties
- for installing individual accessories

Finish: galvanized

Cabinet depth (D) mm	Part no. (1 piece)
600	315-546
800	315-547

19 Reducing traverse, side



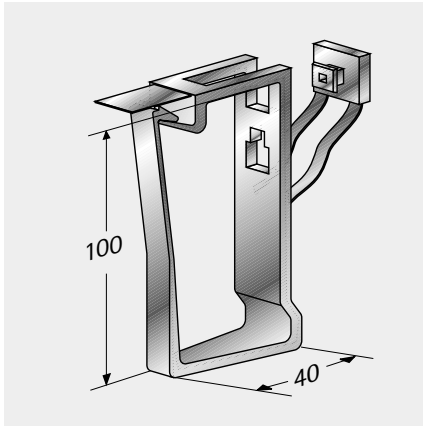
- for symmetrical mounting of the 19" mount in 800mm-wide cabinets
- for installing at adjustable mounting depths, 25mm increments
- incl. assembly material

Finish: galvanized

Cabinet depth (D) mm	Part no. (1 piece)
600	315-712
800	315-711



21 Cable hoop, plastic



- for securing cables to the side of the 19" frame (for 800mm-wide cabinets)
- for positioning cables vertically

Material: plastic

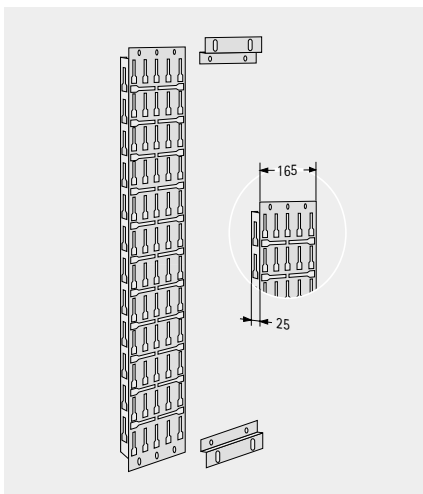
Included in delivery:

Cable hoop with assembly material

Inner dimensions: 100mm x 40mm

Part no.
64-0035-00

23 Cable ladder



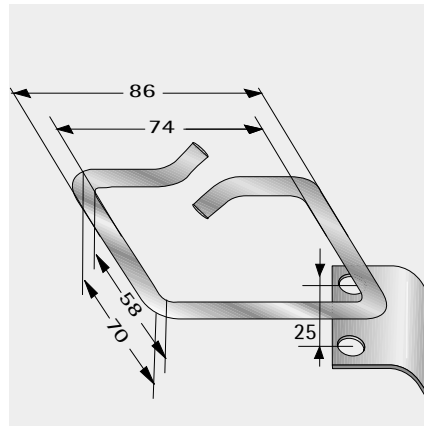
- side and rear
- incl. assembly material

Finish:

RAL 7032 pebble grey

For cabinet height (H) mm	Part no.
1600	315-606
1800	315-608
2000	315-610

21 Cable hoop, metal



- for securing cables to the side of the 19" frame (for 800mm-wide cabinets)
- for positioning cables vertically
- incl. assembly material

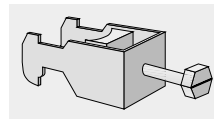
Material: steel, galvanized

Dimensions: 58mm x 74mm inner, 70mm x 86mm outer

Part no.
64-0036-00

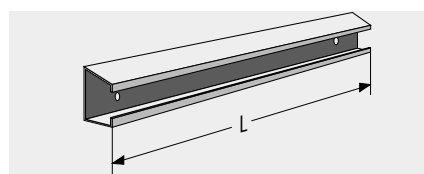
24 Cable clamp

- fits the cable guide rails shown



For cable diameter	Part no.
∅ 8-12	640-132
∅ 12-16	640-133
∅ 16-22	640-134

22 Cable duct for side installation



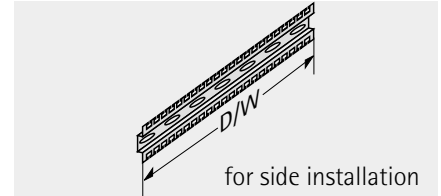
- for use with cable clamps to manage cables
- incl. assembly material

Finish: galvanized

Order cable clamps separately!

Cabinet depth (D)	L mm	Part no.
600	494	315-833
800	694	315-834

25 Cable management bracket



- This rail allows you to manage cables using cable ties or cable hoops. The combination rail is clear chromated and establishes contact between the cable sheath and zero potential.
- incl. assembly material

Material: chromated aluminium

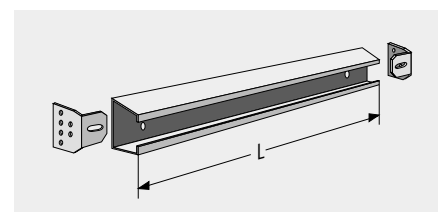
- for side installation

Cabinet depth (D) mm	Part no.
600	31-5833-10
800	31-5834-10

- for rear or front lateral installation in areas without 19" vertical mountings

Cabinet width (W) mm	Part no.
600	31-5831-10
800	31-5832-10

26 Cable duct for lateral installation



- for rear or front lateral installation in areas without 19" vertical mountings
- for use with cable clamps to manage cables
- incl. assembly material

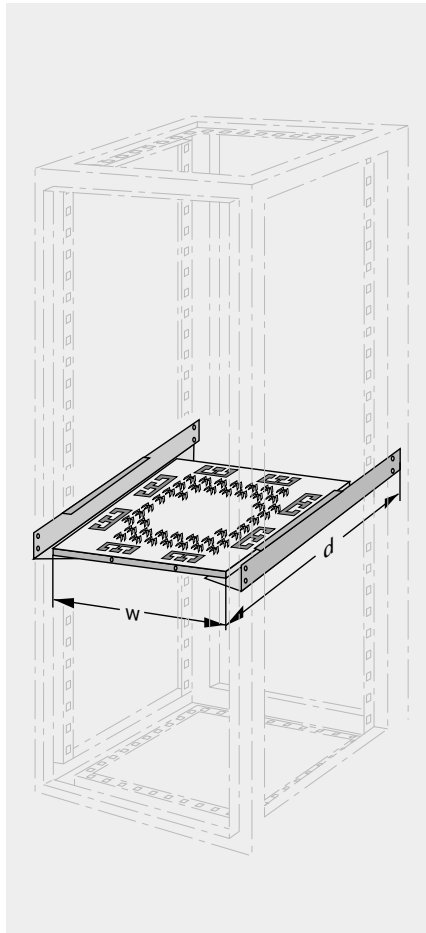
Finish: galvanized

Order cable clamps separately!

Cabinet width (W)	L mm	Part no.
600	494	315-831
800	694	315-832



20 Shelf



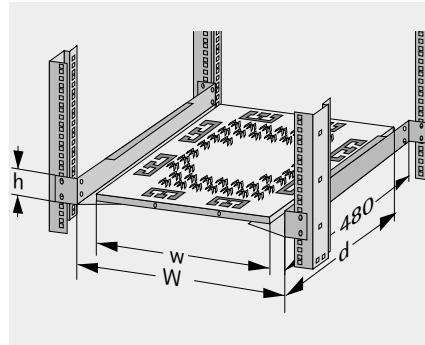
- no 19" extension required
- shelf surface covers the entire cabinet width
- 415mm deep, sufficient storage space for cables (+200mm with shelf extension)
- integrated tension relief for equipment cable
- incl. assembly material

Carrying capacity: approx. 50kg

Finish: RAL 7032 pebble grey

Width (W)	Depth (D)	Part no.
mm	mm	
600	600	31-5820-00
600	800	31-5822-00
800	600	31-5824-00
800	800	31-5826-00

20 19" shelf (2 U)



- for mounting on the 19" support from the front or rear
- can be lengthened with the extender set
- incl. assembly material

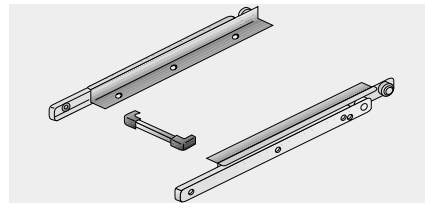
Carrying capacity:
with two 19" mounts: approx. 50kg

Finish: RAL 7032 pebble grey

Width (W)	Depth (D)	Part no.
	mm	
19"	475	31-5812-00

Extender set for shelves without shelf extensions

You can use this extender set to transform the above shelves into telescoping shelves. (not 315-810)



Width (W)	Part no.
600	68-0051-10
800	68-0051-10
19"	68-0051-10

Shelf extension

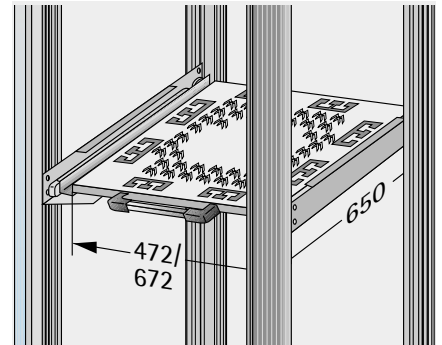
not shown

Shelf extensions extend the depth of **fixed** shelves by 200mm.

Finish: RAL 7032 pebble grey

Width (W)	Part no.
mm	
600	31-5824-08
800	31-5824-04

20 Heavy-duty shelf extractable



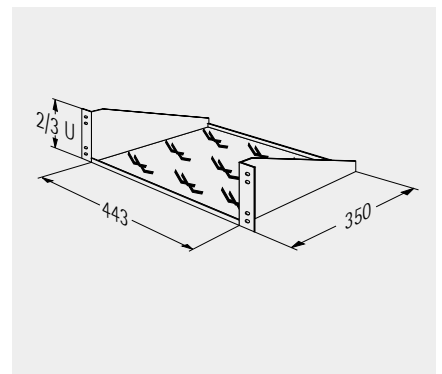
- for 800mm cabinet depths
- incl. telescoping rails and assembly material

Carrying capacity:
approx. 80kg with three-piece extender

Finish: RAL 7032 pebble grey

Width (W)	Depth (D)	Part no.
mm	mm	
600	800	31-5828-00
800	800	31-5829-00

19" shelf fixed



- easy installation on 19" vertical mounting
- ventilated
- incl. assembly material

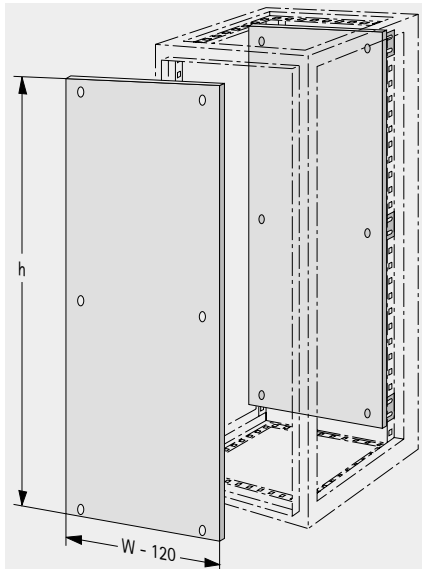
Carrying capacity: approx. 15kg

Finish: RAL 7032 pebble grey

Depth (D)	Part no.
mm	
350	315-810



17 Mounting plate



Mounting plates are used for mounting heavy components. They are mounted on the rear cabinet vertical mountings using fixing brackets. Side traverses are required for mounting panels in other positions.

Included in delivery:

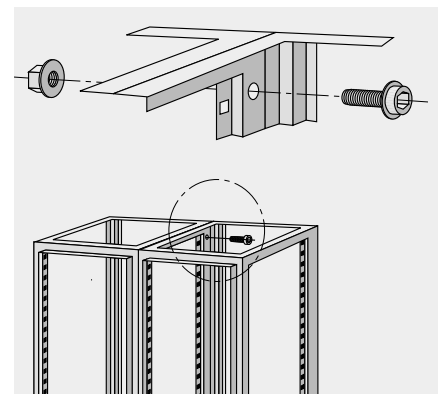
mounting plate including fixing brackets

Finish:

galvanized

Width (W)	Cabinet height (H)	Height (H)	Part no. (1 piece)
600	1600	1428	315-496
	1800	1650	315-498
	2000	1828	315-500
800	1600	1428	315-516
	1800	1650	315-518
	2000	1828	315-520

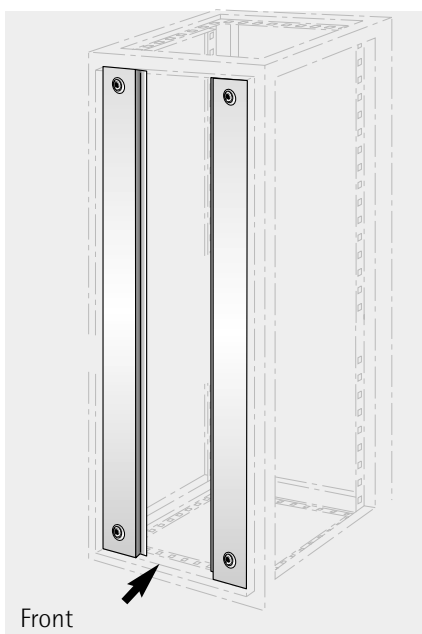
28 Cabinet connector set



- incl. 6 screws, nuts and rubber seals

Part no.
315-001

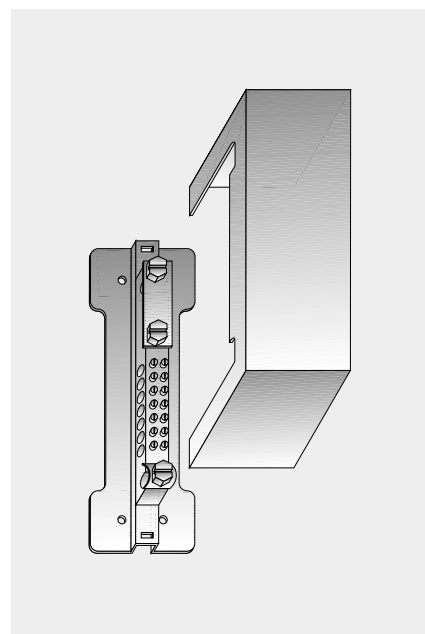
32 Side panel, with hinge pin



- for covering the side storage space in 800mm-wide and 2000mm-high cabinets
- can be locked with a sash fastener

Part no.
31-5540-10

31 Tension balancing rail with cover

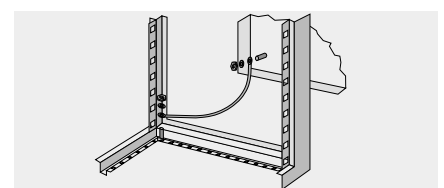


Tension balancing set, covered; with following connection options:

- 1 x round conductor RD 8-10
- 1 x flat band up to FI 30 or round conductor RD 8-10
- 7 x single- or several-wire conductors up to 10mm²
- or stranded conductors up to 10mm²
- incl. assembly material

Part no.
64-0200-01

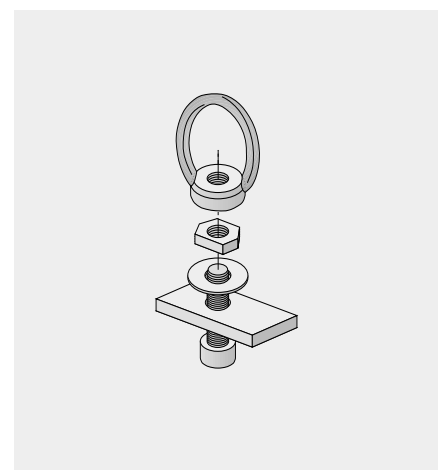
27 Earthing kit



- allows an earthing of cabinet components in compliance with VDE
- Cable Ø 2.5mm²

Part no.
315-840

30 Lifting eye bolt

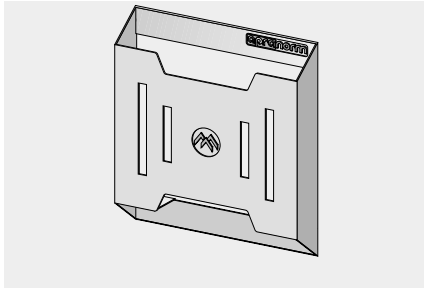


- Lifting eye bolts can only be attached to the rack when the roof is removed.

Part no.
315-552



Document pocket

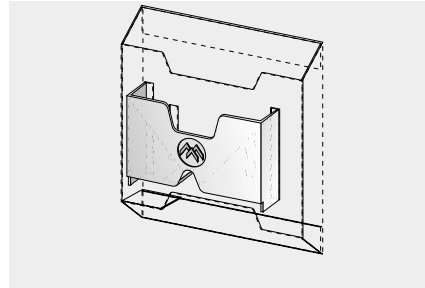


- self-adhesive
- heat-resistant to 60°C
- capacity to 3kg
- your company's logo can be affixed

Material: polystyrene, black

Part no.
640-100

CD/diskette holder for document pocket

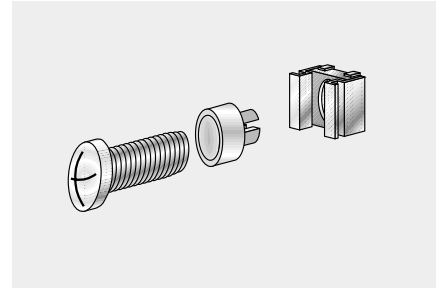


- for a practical solution
- the CD/diskette holder can be hung in the document pocket

Finish: RAL 7035 light grey

Part no.
64-0100-10

M5/M6 screw set for installing 19" components

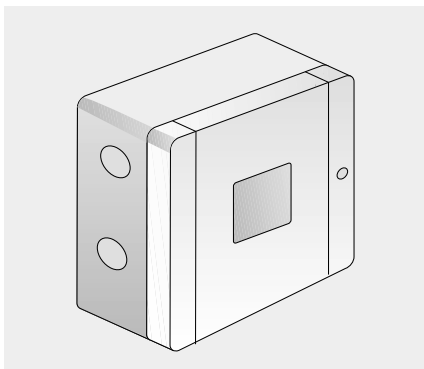


Included in delivery:

- 50 cross dome oval-head screws, M5 x 12/M6 x 16
- 50 captive nuts, M5/M6-8
- 50 decorative washers, M5/M6

Description	Part no.
M5	630-991
M6	630-994

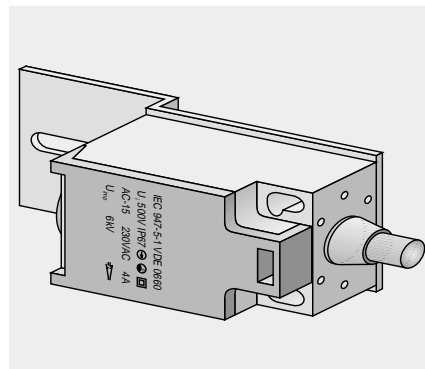
Connection box



- cable distribution socket
- used as a fixed transfer point from building electricity to cabinet electricity
- easy and quick assembly

Part no.
640-059

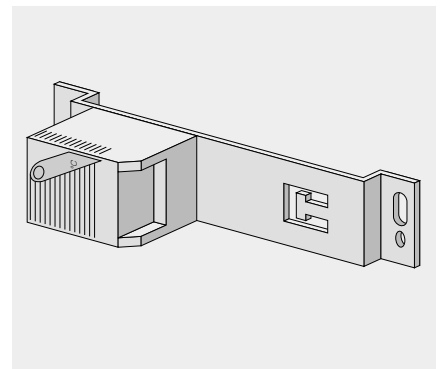
Door contact switch



- incl. assembly material

Part no.
64-0071-00

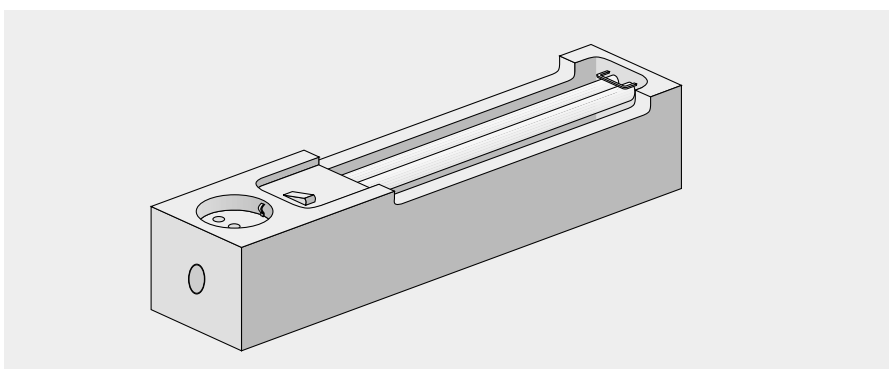
Thermostat, 230V



- with an fixing bracket and integrated tension relief
- control range 0 – 60°C
- incl. assembly material

Part no.
315-804

Cabinet lamp, 230V



- shielded in compliance with VDE 0712 ICE 82
- 230V/ 50Hz 11W (equivalent to a 75W filament bulb)
- magnetic attachment; can be placed in different locations within LAN cabinet
- can be mounted on standard rails
- incl. switch and socket (power cable not included)

Part no.
640-143

19" aprack® Cabinet System



... the perfect shell for valuable electronics





19" cabinet system aprack

aprack®

Features



Stylish design



"Mini" model



Lever lock



"aprack"

"aprack mini"



Sample configurations

19" aprack cabinet system

- elegant design
- rack can be assembled very quickly (8 screws)
- 19" mounts with adjustable mounting depth
- light aluminium construction
- various accessories
- also available as the "aprack-mini" model in 800mm, 1000mm and 1200mm heights
- available with subdivided rear door with 3 U installation space, for installing plug-in units or fan modules, or for cable entry (see model 3)
- doors with turning lever lock
- numerous assembly options for extension components
- free assembly service, also for custom configurations of extension and accessory parts
- special sizes and colours available upon request

You can find matching 19" components such as:

- subracks
- universal plug-in units
- computer plug-in units, and much more

on the Internet at www.apra.de



Specifications

Application:

cabinet system for installing 19" plug-in units, 19" subracks, shelves, etc. suitable for office, laboratory and industrial use.

Construction:

stable Al extrusion frame with Al die-cast corners

Finish:

RAL 7035 light grey
Base: RAL 7030 stone grey

Standards:

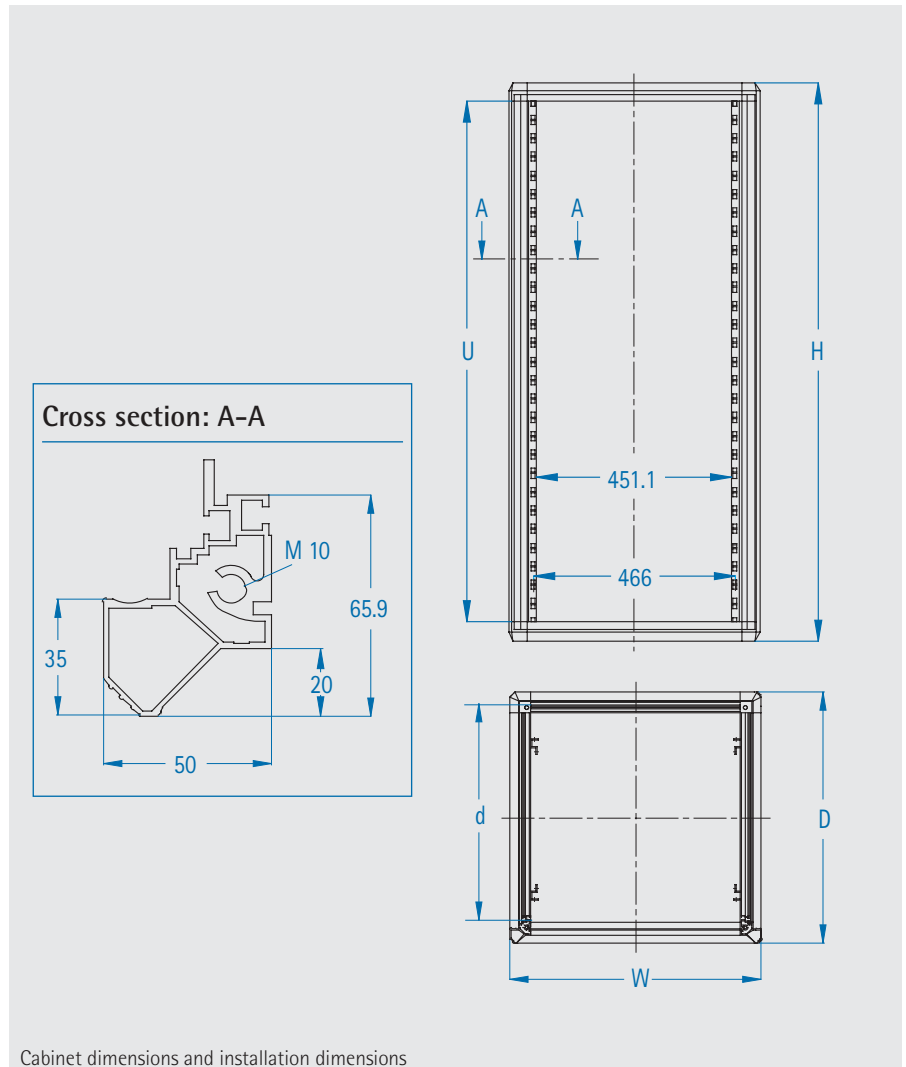
installation dimensions in compliance with IEC 297-1

Degree of protection:

IP 20

Delivery:

assembled



Abbreviations

- H:** cabinet height without base/roof
- h:** available installation height
- U:** number of height units for installation
- W:** cabinet width incl. sides
- D:** cabinet depth incl. door/rear panel
- d:** available installation depth

Available dimensions

H	h	U	W	D	d
mm	mm	mm	mm	mm	mm
800	727	16	600	600	515
800	727	16	600	800	715
1000	927	20	600	600	515
1000	927	20	600	800	715
1200	1127	25	600	600	515
1200	1127	25	600	800	715
1400	1327	29	600	600	515
1400	1327	29	600	800	715
1600	1527	34	600	600	515
1600	1527	34	600	800	715
1800	1727	38	600	600	515
1800	1727	38	600	800	715
1800	1727	38	800	600	515
2000	1927	43	600	600	515
2000	1927	43	600	800	715
2000	1927	43	800	600	515

Special sizes and colours available on request.



Basic models:

Select the basic model that meets your requirements from our wide range of cabinet systems.

Then supplement the basic model with the extension and accessory parts you need, such as bases, cover plates, etc. (beginning on p. 1.56).

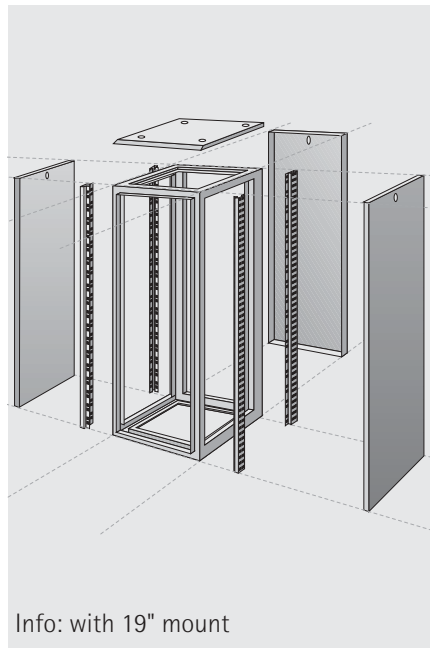
Finish of all models:
RAL 7035 light grey

Delivery:
assembled

You can of course also design your entire cabinet yourself (beginning on p. 1.56). Our free assembly service will not cost you any extra money!

Model 1

19" cabinet with top (ventilated/not ventilated)



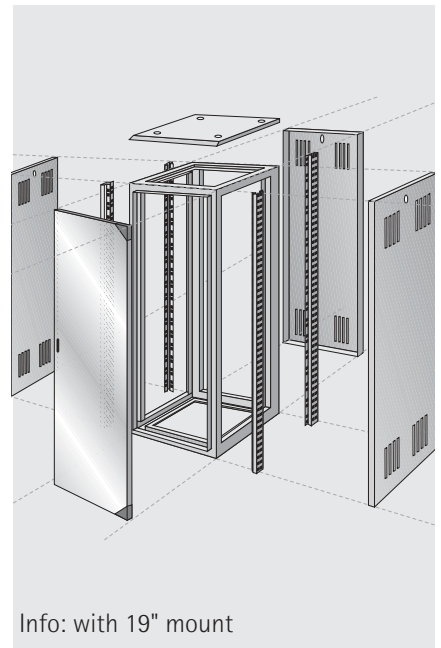
Info: with 19" mount

Included in delivery

Pc.	Description
1	Cabinet rack with 4 vertical mountings
2	Side panels
1	Rear panel
1	Top cover, not ventilated
1	Set of blind covers

Model 2

19" cabinet with top (ventilated) and safety glass door



Info: with 19" mount

Included in delivery

Pc.	Description
1	Cabinet rack with 4 vertical mountings
2	Side panels, ventilated
1	Rear panel, ventilated
1	Safety glass door
1	Top cover, not ventilated
1	Set of blind covers

Note:
The front vertical mountings are pre-installed 32.5mm from the front!

Order information

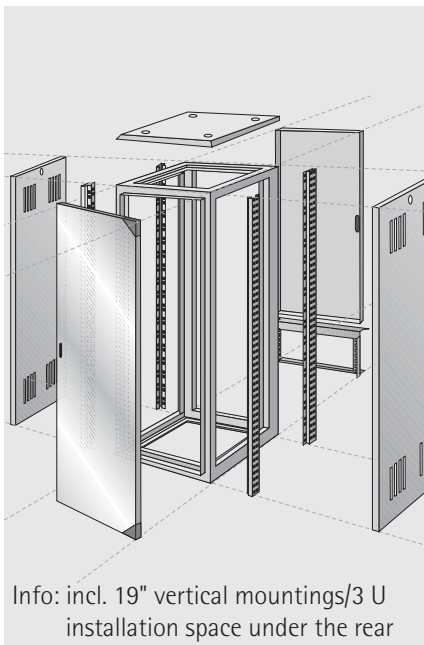
U	H mm	h mm	W mm	D mm	ventilated	not ventilated
16	800	727	600	600	11-1248-00	11-1228-00
20	1000	927	600	600	11-1250-00	11-1230-00
25	1200	1127	600	600	11-1252-00	11-1232-00
34	1600	1527	600	600	110-256	110-236
38	1800	1727	600	600	110-258	110-238
43	2000	1927	600	600	110-260	110-240
34	1600	1527	600	800	110-266	-
38	1800	1727	600	800	110-268	-
43	2000	1927	600	800	110-270	-
38	1800	1727	800	600	-	-
43	2000	1927	800	600	-	-

ventilated
11-1418-00
11-1420-00
11-1422-00
11-0456-00
11-0458-00
11-0460-00
11-0466-00
11-0468-00
11-0470-00
-
-



Model 3

19" cabinet with cover parts (ventilated), short rear door and safety glass door



Info: incl. 19" vertical mountings/3 U installation space under the rear

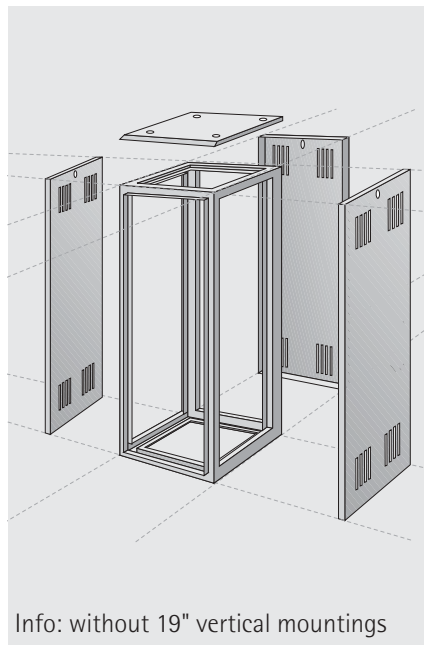
Included in delivery

Pc.	Description
1	Cabinet rack with 4 vertical mountings
2	Side panels, ventilated
1	Rear door, short
1	Safety glass door
1	Top cover, not ventilated
1	Set of blind covers

Note:
The front vertical mountings are pre-installed 32.5mm from the front!

Model 4

Modem cabinet with cover parts (ventilated/not ventilated)



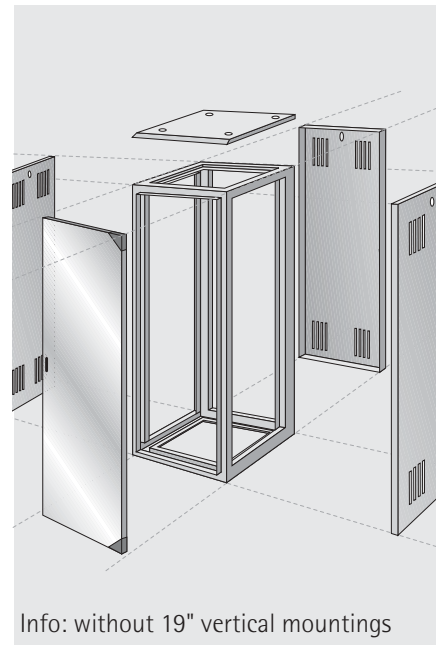
Info: without 19" vertical mountings

Included in delivery

Pc.	Description
1	Cabinet rack without vertical mountings
2	Side panels
1	Rear panel
1	Top cover, not ventilated

Model 5

Modem cabinet with cover parts (ventilated) and safety glass door



Info: without 19" vertical mountings

Included in delivery

Pc.	Description
1	Cabinet rack without vertical mountings
2	Side panels, ventilated
1	Rear panel, ventilated
1	Safety glass door
1	Top cover, not ventilated

U	H mm	ventilated
16	800	-
20	1000	-
25	1200	-
34	1600	11-0656-00
38	1800	11-0658-00
43	2000	11-0660-00
34	1600	11-0666-00
38	1800	11-0668-00
43	2000	11-0670-00
38	1800	-
43	2000	-

ventilated	not ventilated
11-1438-00	11-1428-00
11-1440-00	11-1430-00
11-1442-00	11-1432-00
110-356	110-336
110-358	110-338
110-360	110-340
110-366	-
110-368	-
110-370	-
110-388	-
110-390	-

ventilated
11-1448-00
11-1450-00
11-1452-00
11-0676-00
11-0678-00
11-0680-00
11-0686-00
11-0688-00
11-0690-00
11-0698-00
11-0600-00



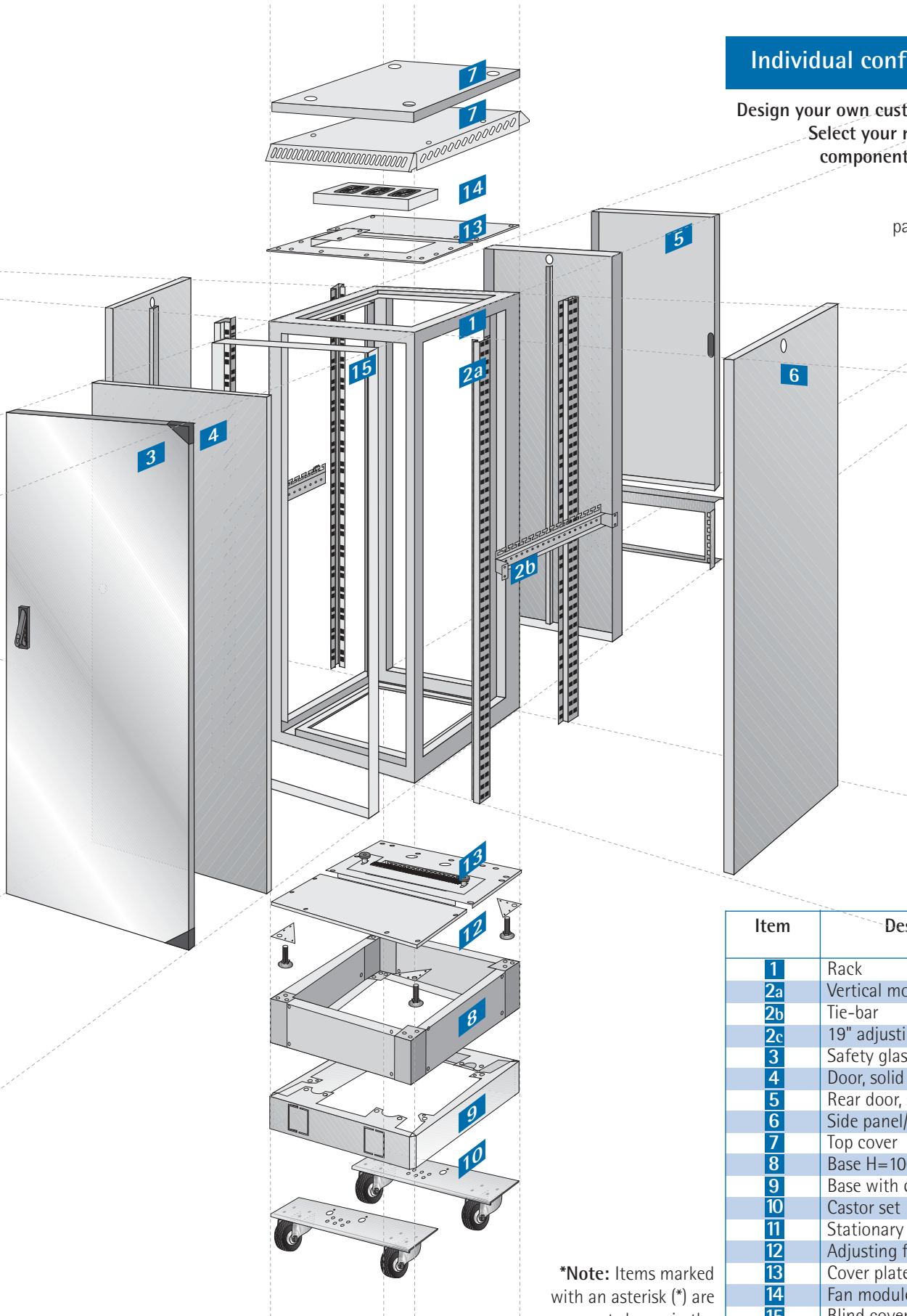
110 • 19" aprack® cabinet system



Individual configuration:

Design your own customized cabinet.
Select your required cabinet components one at a time.

Delivery:
partially assembled

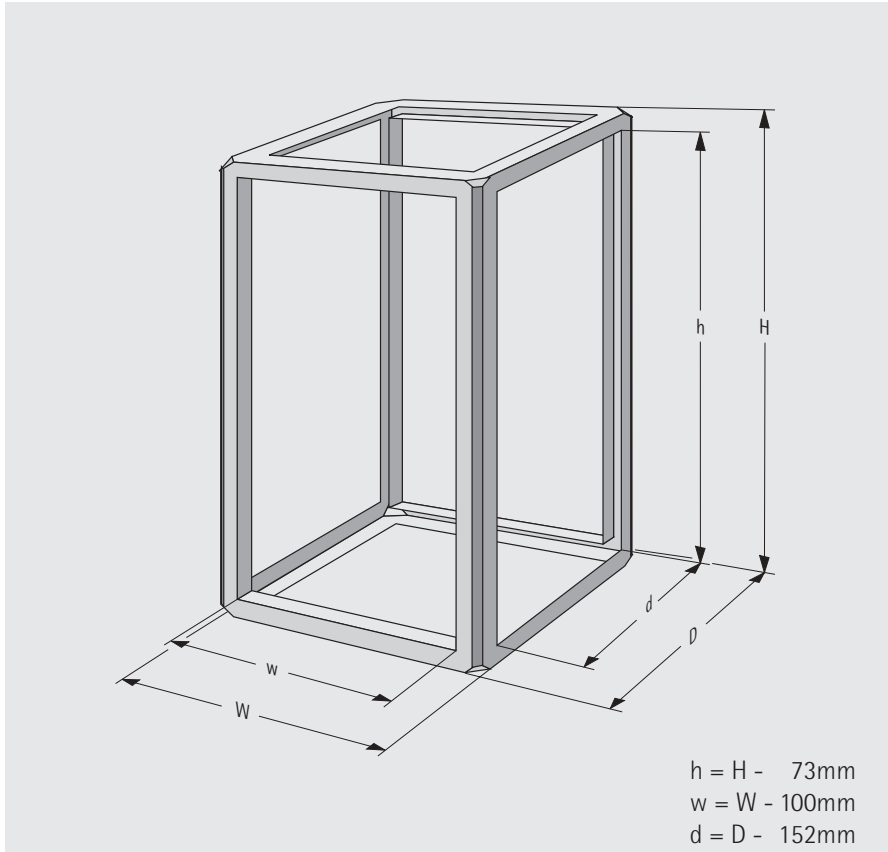


Item	Description
1	Rack
2a	Vertical mounting (ASA)
2b	Tie-bar
2c	19" adjusting tie-bar*
3	Safety glass door
4	Door, solid
5	Rear door, short
6	Side panel/rear panel
7	Top cover
8	Base H=100mm
9	Base with castors
10	Castor set
11	Stationary base H=50mm*
12	Adjusting foot
13	Cover plate
14	Fan module
15	Blind covers
16	Sliding rail*

Note: Items marked with an asterisk () are not shown in the exploded view above.



1 Rack



Included in delivery

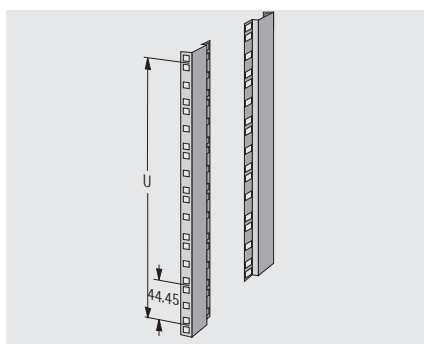
Pc.	Description
1	Bottom frame
1	Top frame
4	Vertical extrusions (19" vertical mountings not included), fully assembled

Finish:

RAL 7035 light grey

H mm	W mm	D mm	Part no.
800	600	600	111-038
800	600	800	11-1138-00
1000	600	600	111-040
1000	600	800	111-140
1200	600	600	111-042
1200	600	800	11-1142-00
1400	600	600	11-0314-00
1400	600	800	11-0324-00
1600	600	600	110-316
1600	600	800	110-326
1800	600	600	110-318
1800	600	800	110-328
1800	800	600	110-308
2000	600	600	110-320
2000	600	800	110-330
2000	800	600	110-310

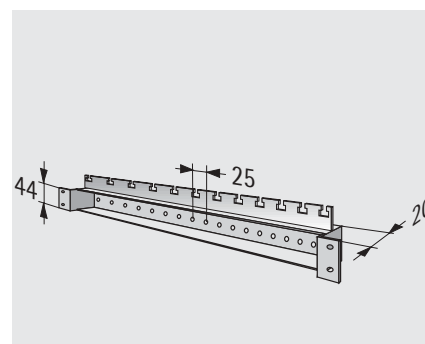
2a Vertical mounting, ASA



- incl. assembly material
- Material:** sheet steel, 2mm
Finish: galvanized

Height (H) mm	U	Part no. (pair)
-	12	11-0101-50
-	15	11-0102-50
800	16	11-0080-50
1000	20	11-0090-50
1200	25	11-0100-50
1400	29	11-0106-50
1600	34	11-0103-50
1800	38	11-0104-50
2000	43	11-0105-50

2b Tie-bar

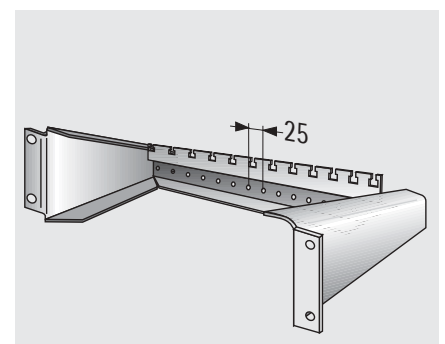


- for variable installation of 19" vertical mountings inside 600mm-wide cabinets
- can be used as a cable management bracket

Finish: galvanized

Depth (D) mm	Part no. (1 piece)
600	110-089
800	110-090

2c 19" adjusting tie-bar



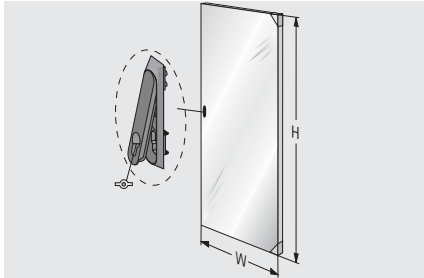
- for symmetrical installation of 19" vertical mountings in 800mm-wide cabinets
- can be used as a cable management bracket

Finish: galvanized

Depth (D) mm	Part no. (1 piece)
600	110-091
800	110-092

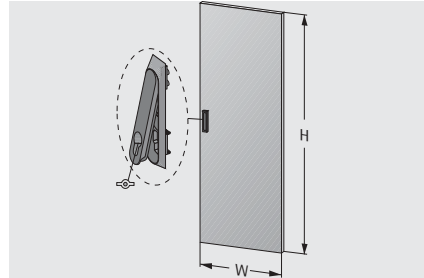


3 Safety glass door



- can be used as a front or rear door
- clear safety glass 6mm
- lever lock for profile semi-cylinder
- incl. 5mm profile semi-cylinder and key

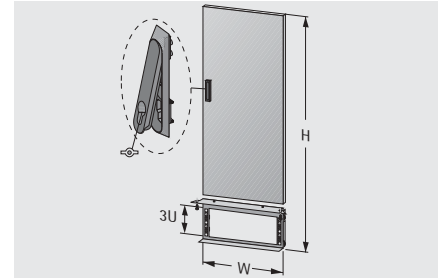
4 Door, closed



- can be used as a front or rear door
- turning lever lock for profile semi-cylinder
- incl. 5mm profile semi-cylinder and key

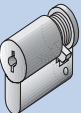
Finish: RAL 7035 light grey

5 Short door, closed

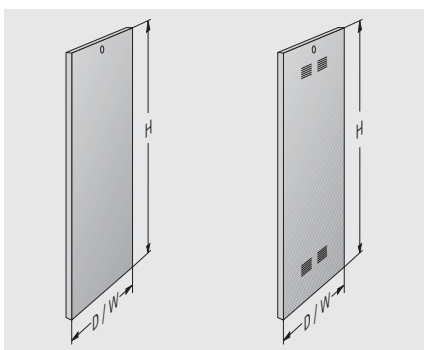


- can be used as a front or rear door
- turning lever for profile semi-cylinder
- incl. 5mm profile semi-cylinder and key
- 3 U installation (under door)

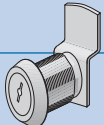
Finish: RAL 7035 light grey

Width (W) mm	Height (H) mm	Part no.			profile semi-cylinder 
		Safety glass door	Door, closed	Short door, closed	
600	800	111-068	110-253	-	<ul style="list-style-type: none"> • fits into turning lever lock • incl. 2 keys
	1000	111-070	11-0255-00	-	
	1200	111-072	110-254	-	
	1400	11-0514-00	11-0277-00	11-0639-00	
	1600	110-516	110-271	11-0634-00	
	1800	110-518	110-272	11-0635-00	
800	2000	110-520	110-274	11-0636-00	676-062
	1800	110-538	110-273	11-0637-00	
	2000	110-540	110-275	11-0638-00	

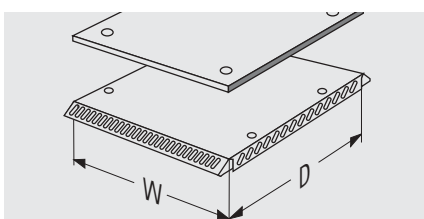
6 Side panel or rear panel, ventilated or not ventilated



- incl. sash fastener
- Finish: RAL 7035 light grey

Width (W) mm	Height (H) mm	Part no.		Lock 
		not ventilated	ventilated	
600	800	111-088	111-118	fits into side and rear panels
	1000	111-090	111-120	
	1200	111-092	111-122	
	1400	11-0142-00	11-0140-00	
	1600	110-181	110-184	
	1800	110-182	110-185	
	2000	110-183	110-186	
800	800	11-0197-00	11-0194-00	676-181
	1000	11-0198-00	11-0195-00	
	1200	11-0199-00	11-0196-00	
	1400	11-0143-00	11-0141-00	
	1600	110-187	110-190	
	1800	110-188	110-191	
	2000	110-189	110-192	

7 Top cover

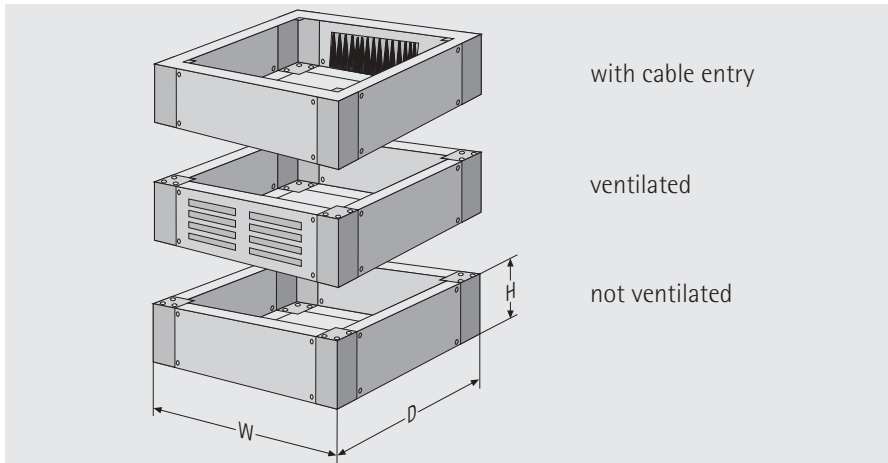


Finish: RAL 7035 light grey

Width (W) mm	Depth (D) mm	not ventilated bolted	with ventilation slots H=25mm
600	600	11-0051-20	11-0060-00
600	800	11-0052-20	11-0061-00
800	600	11-0052-20	11-0062-00



8 Base



with cable entry

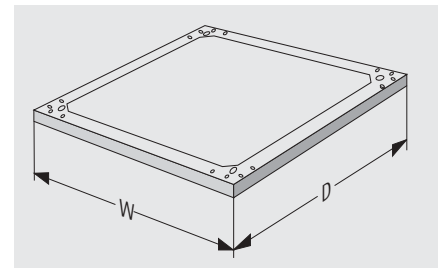
ventilated

not ventilated

- Height: 100mm
- Finish: RAL 7030 stone grey

Width (W) mm	Depth (D) mm	Part no.		
		not ventilated	ventilated	with cable entry and brush
600	600	110-004	110-106	11-0206-00
600	800	110-005	110-107	11-0207-00
800	600	110-005	110-108	11-0208-00

11 Base H = 50mm

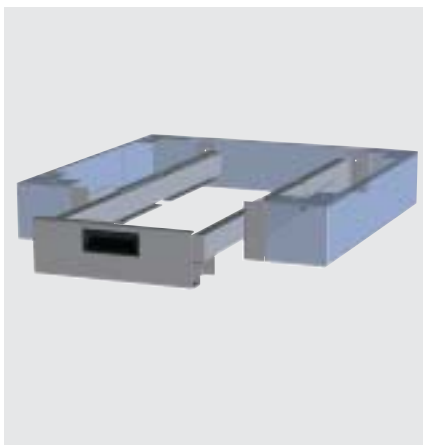


- Height: 50mm
- can be used with adjusting feet (item 12)
- with cut-out for cable entry
- incl. assembly material

Finish:
RAL 7030 stone grey

Width (W) mm	Depth (D) mm	Part no.
600	600	110-001
600	800	110-002
800	600	110-002

8a Tip support

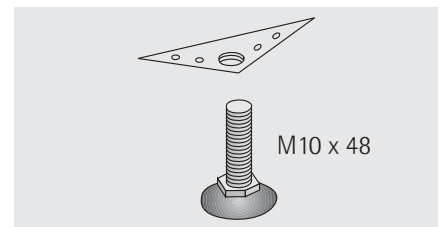


- prevents the cabinet from tipping over when heavy plug-in units are pulled out
- can be pulled out of the base
- front base panel is removed
- fits base with 100mm height (item 8)

Finish: RAL 7030 stone grey

Height (H) mm	Width (W) mm	Depth (D) mm	Part no.
100	600	600	11-0006-00
100	600	800	11-0006-10
100	800	600	11-0006-20

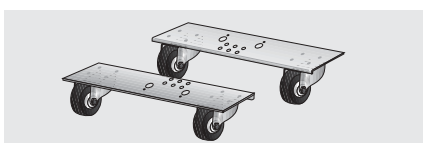
12 Adjusting foot (4 pc.)



- incl. base plate and assembly material
- to attach to the rack or the base (item 11)

Part no. (set)
110-012

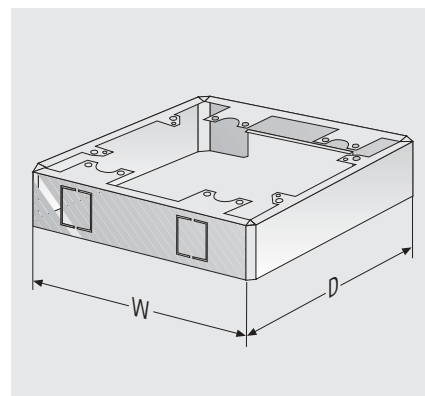
10 Castor set



- fastened directly to the cabinet
- castor diameter: d=80mm
- carrying capacity per castor: 100kg
- cabinet height + 105mm

Width mm	with two brakes	without brake
600	11-0603-00	11-0601-00
800	11-0604-00	11-0602-00

9 Panel for castor set



- hides the castor sets (item 10)
- integrated openings for cable entry
- castor brake can be operated from the outside

Finish:
RAL 7035 light grey

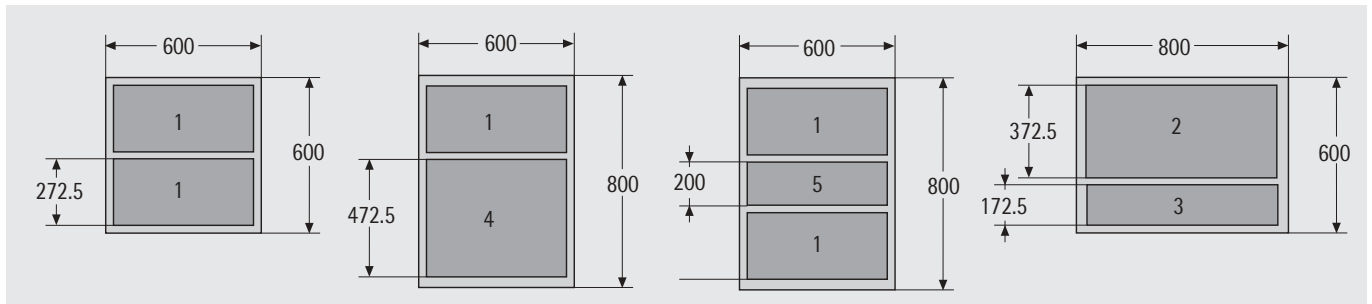
W x D mm x mm	Part no.
600 x 600	11-0914-50
600 x 800	11-0915-50
800 x 600	11-0912-50



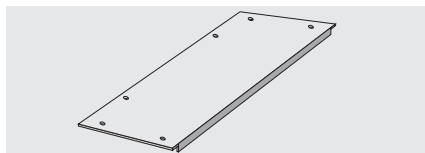
13 Cover plates

The following cover plates can be ordered to cover the top and bottom openings.

The following cover plate combinations are possible:



Cover plate, solid



Finish:
RAL 7035 light grey

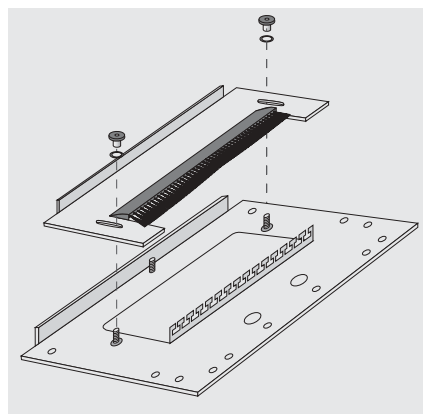
Size	Dimensions mm	Part no.
1	272.5 x 546	11-0700-00
2	372.5 x 746	11-0701-00
3	172.5 x 746	11-0702-00
4	472.5 x 546	11-0703-00
5	200.0 x 546	11-0714-00

Fan plate for fans (item 28)

- with cut-outs for 3 fans

Size	Part no.
1	11-0706-00
2	11-0707-00

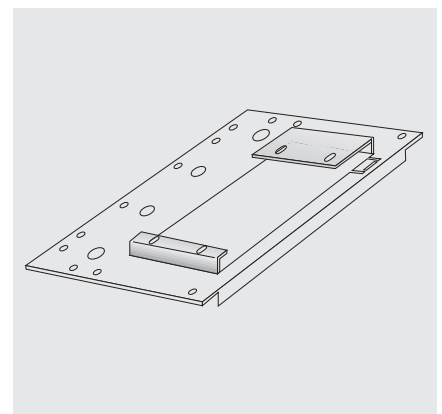
Cover plate for cable entry



Finish:
RAL 7035 light grey

Size	Part no.
1	11-0711-00
2	11-0712-00

Cover plate for fan module (item 14)



Finish:
RAL 7035 light grey

Size	Part no.
1	11-0708-00
2	11-0709-00

14h module, pre-wired



- for installation in the fan module cover plate (see item 13)
- flow rate per fan: 160m³/h
- fan noise level: 40db(A)
- power cable: L=2.5m

Dimensions:

H x W x D = 50mm x 448mm x 130mm

Included in delivery

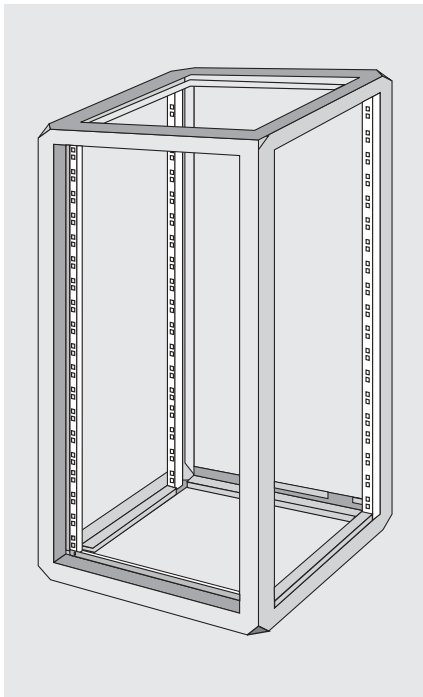
Pc.	Description
1	Fan module, fully wired with thermostat and power cable (shock-proof plug)
1-3	Fan

Order information

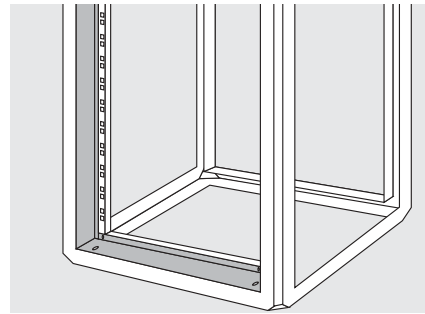
Description	Part no.
Fan module, 1 fan	23-0300-01
Fan module, 2 fans	23-0300-02
Fan module, 3 fans	23-0300-03
3 U installation set <small>for vertical installation on a 19" shelf support</small>	23-0300-12



15 Blind covers (only for 600mm-wide cabinets)



Blind cover set for cabinets with 32.5mm recessed vertical mountings



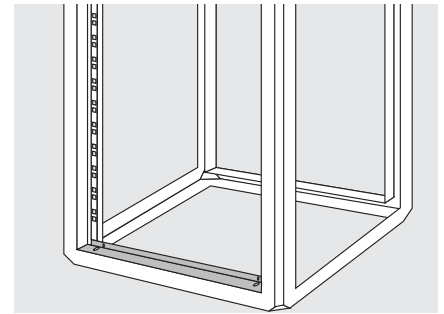
Included in delivery

Pc.	Description
2	Panels, vertical
2	Panels, upper/lower
	Assembly material

Order information

Height mm	Part no.
800	11-0408-00
1000	11-0410-00
1200	11-0412-00
1400	11-0414-00
1600	11-0416-00
1800	11-0418-00
2000	11-0420-00

Blind panel set for cabinets with vertical mountings in the standard position



Included in delivery

Pc.	Description
2	Panels, upper/lower
	Assembly material

Order information

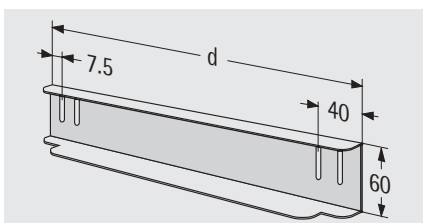
Height mm	Part no.
800	11-0406-00
1000	11-0407-00
1200	11-0406-00
1400	11-0407-00
1600	11-0406-00
1800	11-0407-00
2000	11-0406-00

- for masking the opening between the vertical mountings and rack in 600mm-wide cabinets
- distance between glass door and front plate = 60mm for recessed installation

Finish:

RAL 7035 light grey

16a Sliding rail, adjustable height



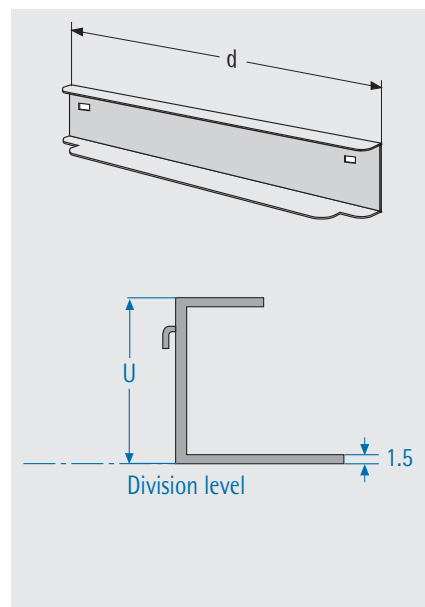
- for installing on a front or rear vertical mounting
- incl. assembly material

Finish:

galvanized

Cabinet depth (D) mm	d mm	Part no. (pair)
600	420	110-096
800	520	110-097
800	620	110-098

16b Sliding rail, hanging



- to hinge into vertical mountings
- not intended for the installation of subracks

Finish: galvanized

Note:

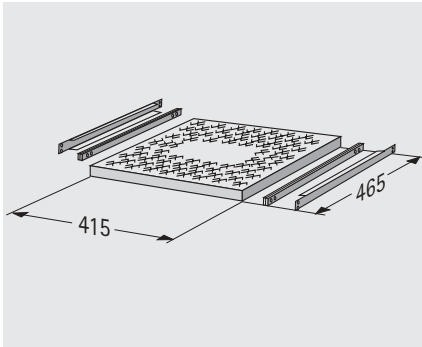
The support surface for built-in plug-in units is 1.5mm above the partition. Pay attention to the offset between the plug-in unit front plate and chassis.

Cabinet depth (D) mm	d mm	Part no. (pair)
600	400	11-0086-10
800	500	11-0087-00
800	600	11-0088-10



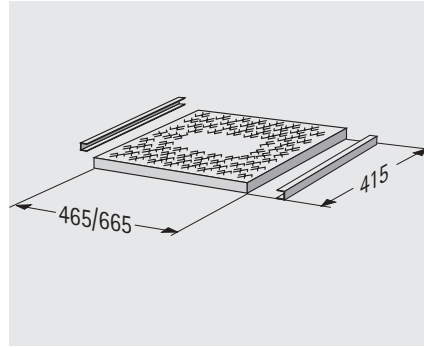
17 Shelves

Shelf, for cabinets with 19" mount



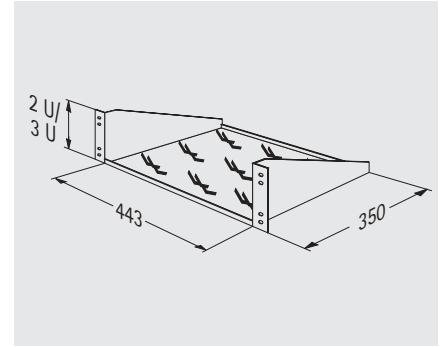
- fixed installation or extractable
 - ventilated
 - includes assembly material
 - telescoping rails with 100% extension
- Carrying capacity: approx. 40kg**
Finish: RAL 7035 light grey

Shelf, for cabinets without 19" mount



- fixed installation or extractable
 - ventilated
 - includes assembly material
 - telescoping rails with 100% extension
- Carrying capacity: approx. 40kg**
Finish: RAL 7035 light grey

Shelf, for cabinets with only one 19" vertical mounting



- fixed installation
- mounts easily onto the front or rear 19" mounting brackets
- ventilated
- incl. assembly material

Carrying capacity: approx. 15kg

Finish:

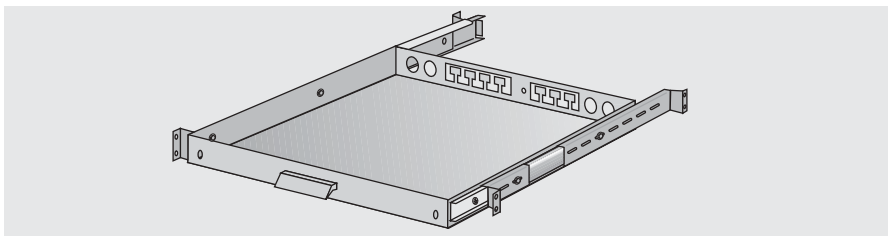
RAL 7035 light grey

Width (W)	Depth (D)	Part no.
	mm	
fixed		
19"	600	11-0874-00
19"	800	11-0875-00
extractable, with high-quality telescoping rails		
19"	600	11-0876-00
19"	800	11-0877-00

Width (W)	Depth (D)	Part no.
mm	mm	
fixed		
600	600	11-0870-00
600	800	11-0871-00
800	600	11-0878-00
extractable, with high-quality telescoping rails		
600	600	11-0872-00
600	800	11-0873-00
800	600	11-0879-00

U	Part no.
2	31-5810-20
3	31-5810-00

18 Extractable tray



- for cabinets with or without 19" vertical mountings
- rear panel with integrated cable management bracket
- telescoping rails with front quick-disconnect feature and lock when pulled out
- can be installed upside down as a writing surface

Finish:
 RAL 7035 light

Included in delivery

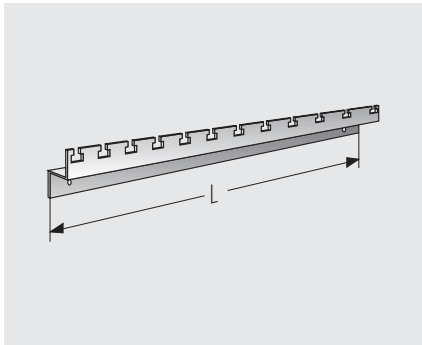
Pc.	Description
1	Extractable tray
1 pair	Telescoping rails
1	Handle
	Assembly material

Order information

Cabinet	Width (W)	Depth (D)	Available width (w)	Available depth (d)	Part no.
		mm	mm	mm	
With 19" mount	19"	600	415	439	11-0882-00
	19"	800	415	439	11-0883-00
Without 19" mount	600	600	439	415	11-0880-00
	600	800	439	415	11-0881-00
	800	600	639	415	11-0884-00
Front panel 1 U anodized			20-2219-01		



19 Cable management bracket



- for bundling and providing tension relief for cables with cable ties
- incl. assembly material

Finish:

RAL 7035 light grey

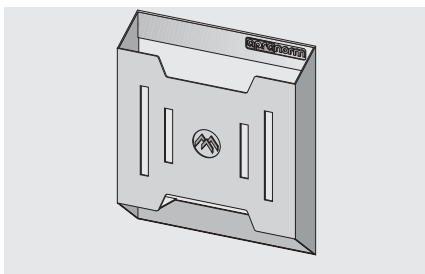
- for side installation

Depth (D) mm	L mm	Part no.
600	500	110-566
800	700	110-567

- for lateral installation

Width (W) mm	L mm	Part no.
600	495	110-564
800	695	110-565

22 Document pocket A4

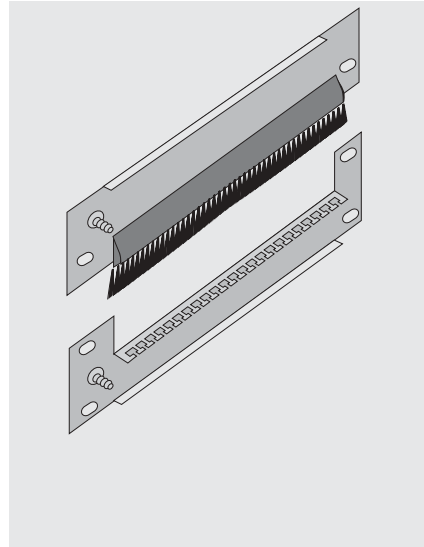


- self-adhesive
- heat-resistant to 60°C
- capacity to 3kg
- your company's logo can be affixed

Material: Polystyrol, black

Part no.
640-100

20 19" cable entry, 3 U



- with built-in cable management bracket and brush
- incl. assembly material

Finish:

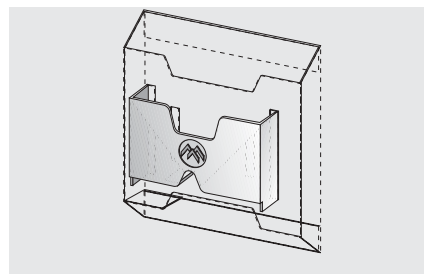
RAL 7035 light grey

Note:

The cable entry opening can be installed in the 3 U installation space underneath the short rear door.

Part no.
11-0713-00

23 CD/diskette holder for document pocket

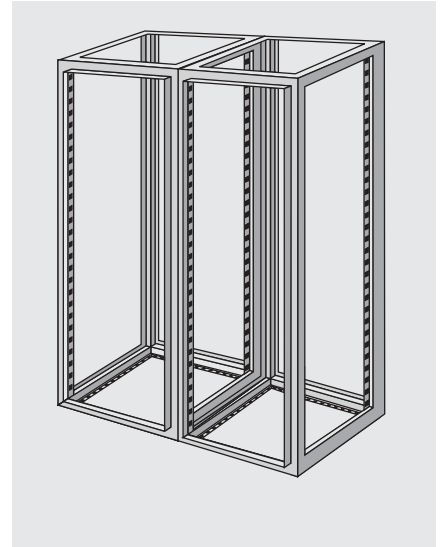


- practical supplement
- the CD/diskette holder can be hung in the document pocket

Finish: RAL 7035 light grey

Part no.
64-0100-10

21 Cabinet connecting kit



- consists of 4 connection brackets
- incl. assembly material

Finish:

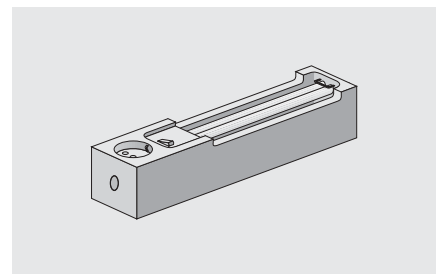
RAL 7035 light grey

Note:

The side panels on the connecting sides must be removed!

Part no.
110-100

24 Cabinet lamp, 230V



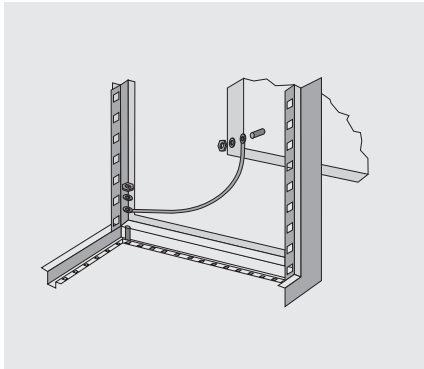
- shielded in compliance with VDE 0712
- 230V/50Hz 11W (equivalent to a 75W light bulb)
- magnetic attachment; can be placed in different positions inside the cabinet
- can be mounted on standard rails

Included in delivery: 1 lamp with switch and socket; power cable not included

Part no.
640-143



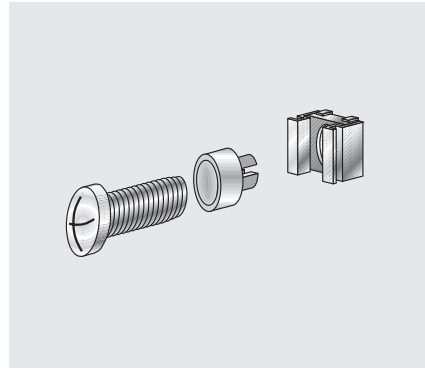
25 Earthing kit



- allows an earthing of all cabinet components in compliance with VDE

Part no.
11-0533-10

26 19" M5/M6 screw set



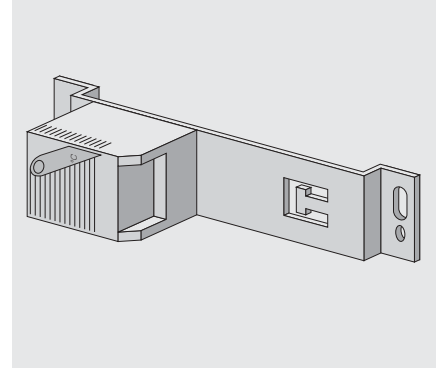
- required for installing 19" components in cabinets or enclosures

Included in delivery:

- 50 screws, M5 x 12/M6 x 16
- 50 captive nuts, M5-8/M6-8
- 50 decorative washers, M5/M6 with collar

Description	Part no.
M 5	630-991
M 6	630-994

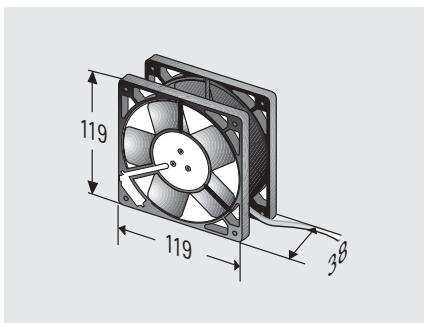
27 Thermostat, 230V



- with fixing bracket and integrated tension relief
- control range 0 – 60°C
- incl. assembly material

Part no.
110-804

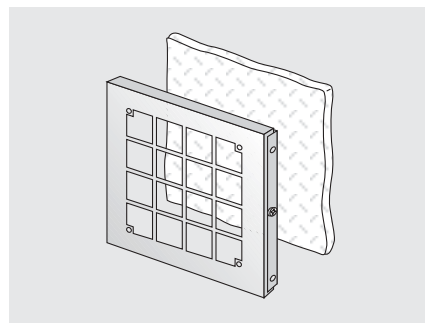
28 Fan



- for mounting on filter set
- flow rate: 160m³/h
- for mounting on the fan plate (item 13)
- incl. assembly material

Voltage	Noise level	Part no.
230V	40dB(A)	230-805
12V	44dB(A)	230-816

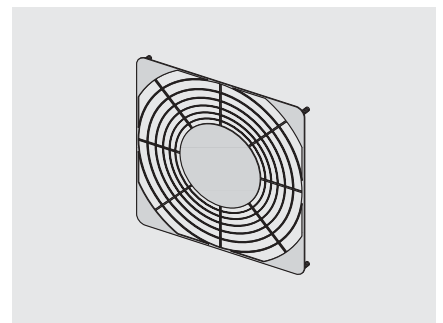
29 Filter set



- for assembling fans on rear and side panels
- easily hung in the vents and tightened with a screw
- incl. filter mat

Description	Part no.
Filter set	11-0822-00
Replacement filter mat	11-0822-04

30 Fan guard



- fits on fans (item 28)

Material: plastic, black

Attached with screws

Part no.
230-818

Attached with clips

Part no.
230-819



aprack® "EURO"

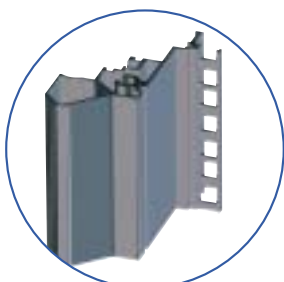
Sample configuration: EMC cabinet



19" aprack "Euro" cabinet system

- elegant design
- cabinet rack can be assembled very quickly (8 screws)
- light aluminium design
- various accessories
- included vertical mountings (built into rack)
- flush captive nut attachment in mounting bracket
- numerous assembly options for extension components
- EMC model available
- doors with turning lever lock
- free assembly service, also for custom configurations of extension and accessory parts
- special sizes and colours available upon request

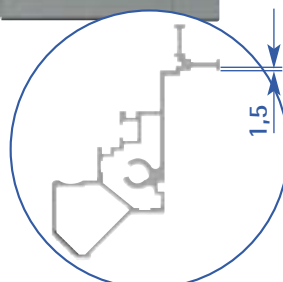
Features



Integrated mounting bracket



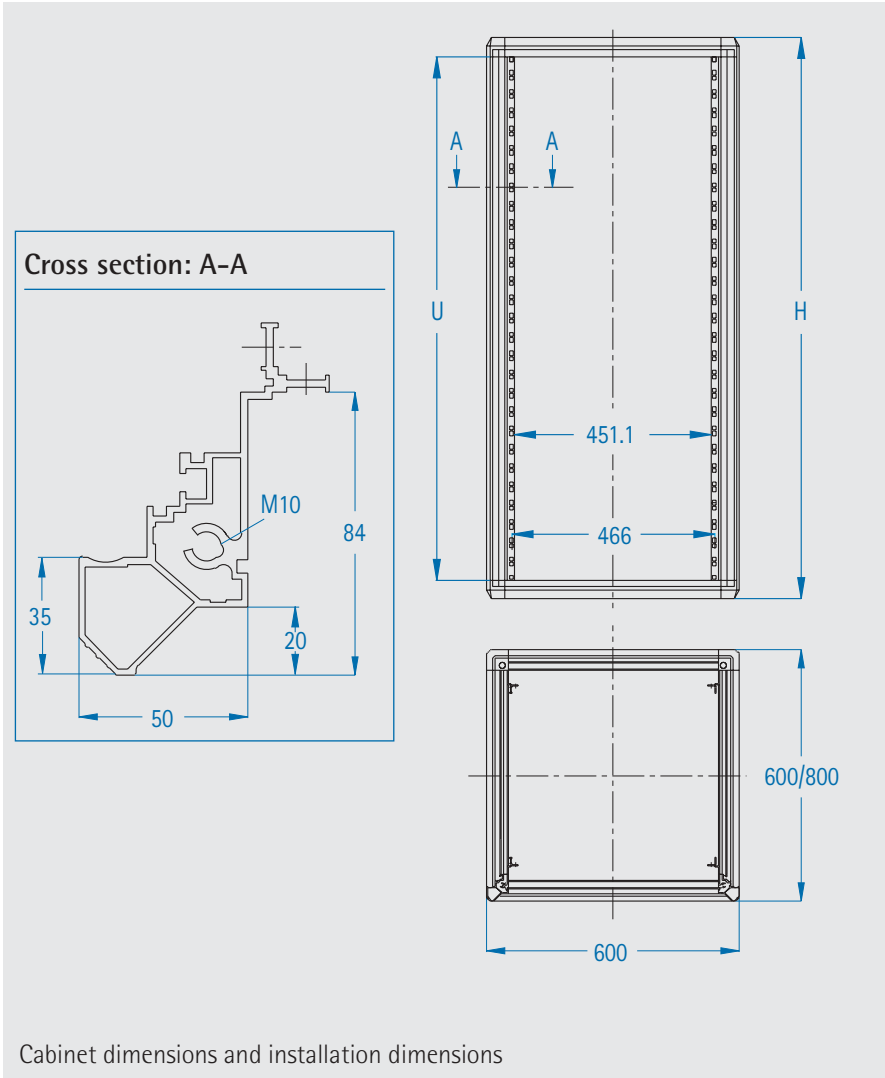
EMC model available



Flush captive nut attachment in mounting bracket



Specifications



Application:

Cabinet system for installing 19" plug-in units, 19" subracks, shelves, etc. Suitable for office, laboratory and industrial use.

Construction:

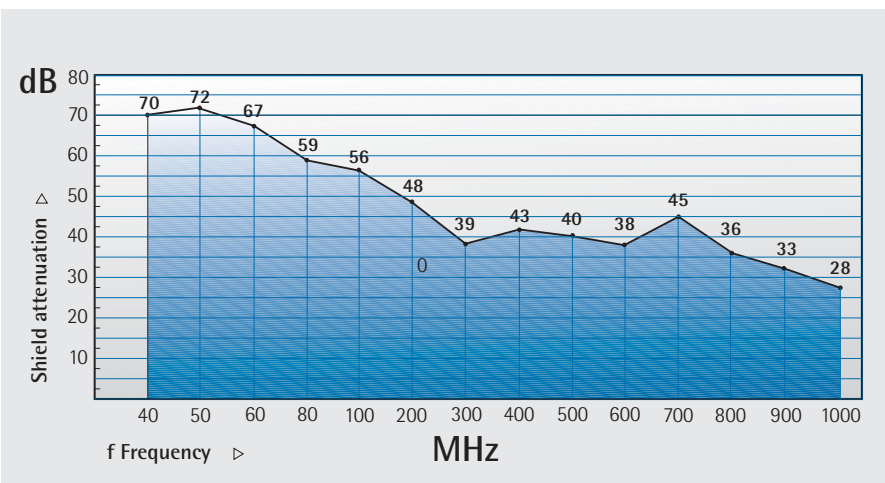
stable Al extrusions frame with Al die-cast corners

Finish:

RAL 7035 light grey

Delivery:

assembled



Shielding attenuation curve for EMC models:

Average values; determined from measurements from an independent institute.

Inspection specification:

Shielding attenuation measurements were taken on the empty cabinet in compliance with VG 95373 Part 15 in the frequency range of 40 to 1000MHz.

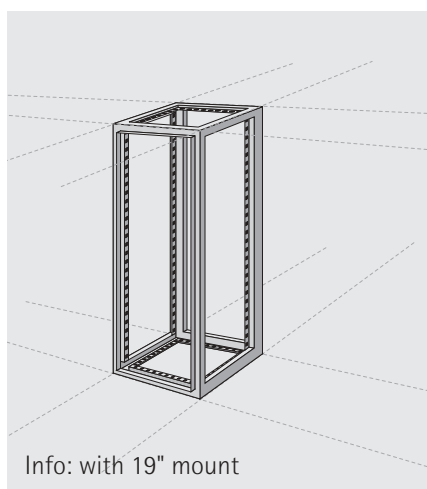


Basic models:

Select the basic model that meets your requirements from our wide range of cabinet systems. Then supplement the basic model with the extension and accessory parts you need, such as bases, cover plates, etc. (beginning on p. 1.56).

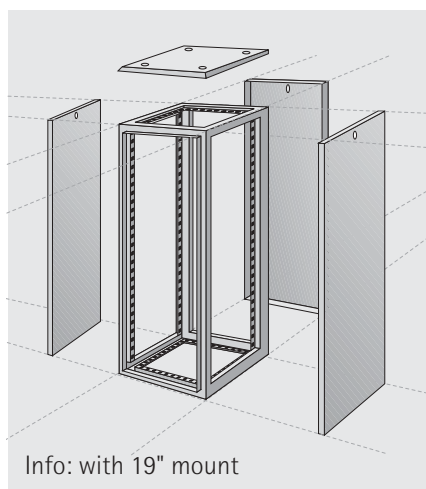
Model 1

19" rack



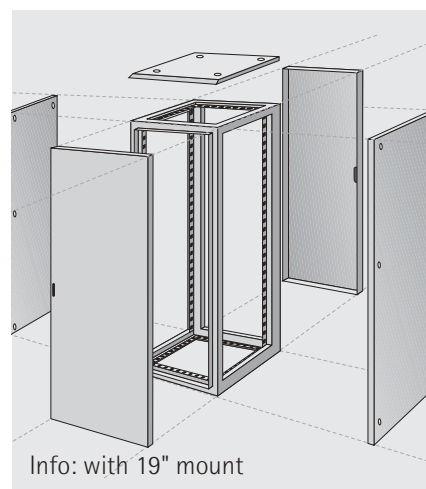
Model 2

19" cabinet with cover parts (ventilated, not ventilated)



Model 3

19" EMC cabinet (not ventilated)



Included in delivery

Pc.	Description
1	Cabinet rack with 4 integrated vertical mountings
2	Panels (upper/lower)

Pc.	Description
1	Rack with 4 integrated vertical mountings
2	Side panels
1	Rear panel
1	Top panel, not ventilated
2	Panels (upper/lower)

Pc.	Description
1	Rack with 4 integrated vertical mountings
2	Side panels
2	Doors with 3 point locking system
1	Top panel, not ventilated
2	Top/bottom panels, EMC
1	EMC sealing material (installed)

Order information

U	H	W	D	Open
	mm	mm	mm	
34	1600	600	600	-
38	1800	600	600	-
43	2000	600	600	-
34	1600	600	800	110-126
38	1800	600	800	110-128
43	2000	600	800	110-130

Ventilated	Not ventilated
110-156	110-136
110-158	110-138
110-160	110-140
110-166	-
110-168	-
110-170	-

Not ventilated
-
11-0480-80
-
-
-
-

Important note:

Please note that the following parts from the above selection of accessories for the aprack cabinet (p. 1.56-1.64) cannot be used with the aprack "Euro".

5 Short door, not ventilated	15 Blind covers
2a 19" ASA vertical mounting	16b Sliding rails, hanging
2b Tie-bar	19 Cable management bracket for lateral installation
2c 19" adjusting tie-bar	

19" Open Racks



... the perfect shell for valuable electronics



19" lab rack 18 U + 18 U

- the 19" lab rack is an inexpensive alternative to a cabinet when equipment is accessed frequently, for example in laboratories and in development and testing departments
- economic transportation using parcel service

Finish:

RAL 7037 dust grey

Material:

sheet steel/die-cast metal

Options:

- can be expanded with a castor set (see accessories)
- front and rear cable entry options (see accessories)

Delivery:

not assembled

Included in delivery

Pc.	Description
1	Stable 19" sheet steel frame 18 U with front and rear vertical perforation
4	Base feet with built-in adjusting feet Assembly material

Included in delivery, expansion module

Pc.	Description
1	Stable 19" sheet steel frame 18 U with front and rear vertical perforation Assembly material

Accessories

Item *	Description	Part no.
1	Castor set for lab rack	58-5010-10
2	Cable clip, small (clip-on)	64-0030-10
3	Cable clip, large (screw-on)	64-0035-00

*Note: see above figure

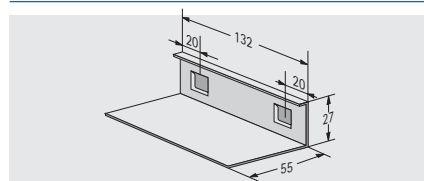


Sample configurations

Order information

Description	H x W x D mm	Part no.
Lab rack 18 U	915 x 575 x 730	58-5010-00
Expansion module 18 U	845 x 575 x 180	58-5010-05

Sliding rail for 19" lab rack

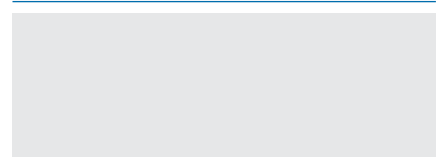


- for installation of heavy plug-in units in the 19" lab rack

Material: sheet steel, galvanized

Part no. (pair)
58-5010-07

19" shelf, fixed



- easy attachment to 19" mounting bracket
- ventilated
- incl. assembly material

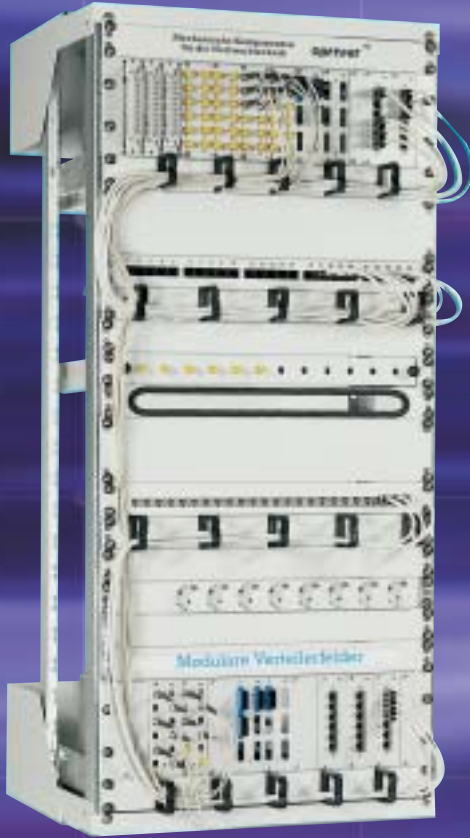
Carrying capacity: approx. 15kg

Finish: RAL 7035 light grey

Height	Part no.
2 U	31-5810-20
3 U	31-5810-00



582 • 19" wall rack



Sample configuration

19" wall rack

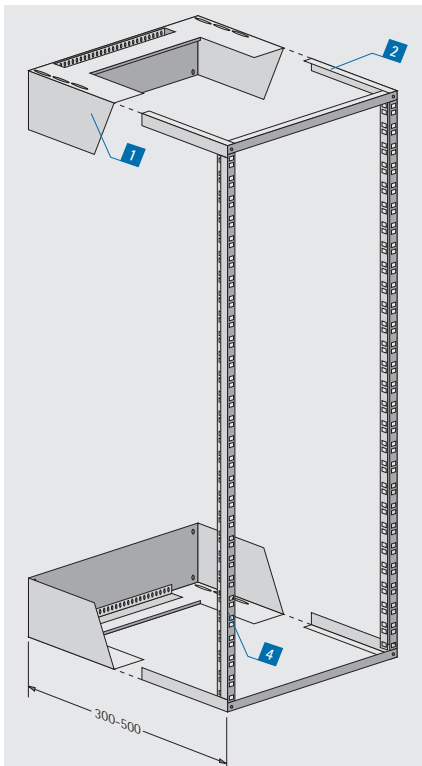
The 19" shelf support has an adjustable mounting depth of 300mm to 500mm so that enough cabling space is available even when deep plug-in units are installed.

Installing a second 19" shelf support in the rack offers many options such as installing sliding rails for heavy plug-in units. The upper and lower cable entry openings have integrated tension relief rails.

Note: Up to 4 mounting brackets can be installed in open wall racks.

The 19" wall rack is easy to assemble since the fixing holes can be marked using the mounted 19" frame on the wall and then drilled and screwed on.

Specifications



Construction:

The 19" wall rack with its two wall supports (1), upper and lower pull-out rails (2) and a front and/or rear 19" shelf support (3) is a flexible and effective 19" alternative to data cabinets.

Note: Mounting brackets for the 19" shelf supports must be ordered separately!

Finish: RAL 7035 light grey

Dimensions: H=according to U
(from 9 U to 24 U)
W=515mm
D =300mm to 500mm

Delivery:
unassembled

Note:
Up to 4 mounting brackets can be installed in open wall racks. Please order 19" mounting brackets separately according to your U needs (see next page).

Included in delivery

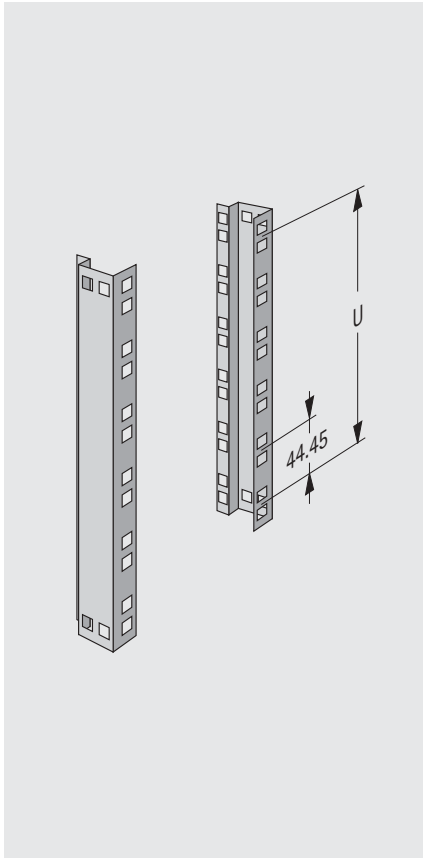
Item	Pc.	Description
1	2	Wall support
2	2	Pull-out rails
3		Assembly material

Order information

Part no.
58-2010-00



4 19" mounting brackets



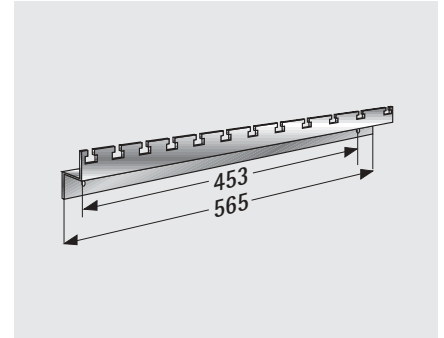
- incl. assembly material

Finish: galvanized

Note: Up to 4 mounting brackets can be installed in open wall racks.

U	Part no. (1 piece)
9	500-309
12	500-312
15	500-315
18	500-318
24	500-324

Cable management bracket

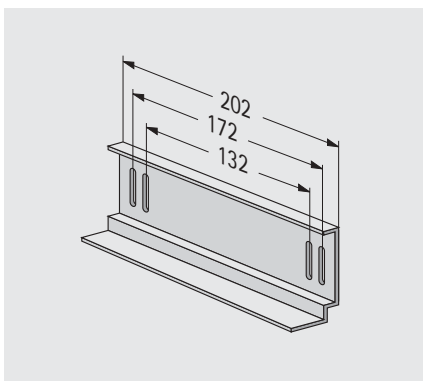


- for bundling and providing tension relief for cables with cable ties
- attached to the wall between the upper and lower wall pieces
- incl. assembly material

Finish:
RAL 7032 pebble grey

Part no.
315-800

Sliding rail for 19" mounting brackets



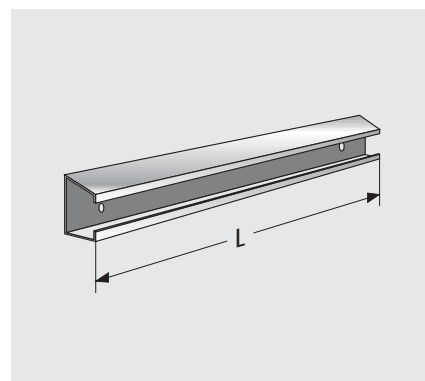
- for supporting heavy 19" plug-in units
- incl. assembly material

Note: Four 19" mounting brackets are required for attaching the rails.

Material:
sheet steel, 2mm, galvanized

Part no. (pair)
312-543

Cable duct

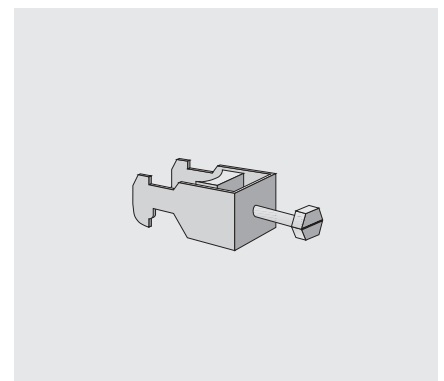


- helps manage cables when used with cable clamps
- attached to the wall between the upper and lower wall pieces

Finish: galvanized

Part no.
31-5831-01

Cable clamp



- fits into the cable duct

For cable diameter	Part no.
ø 8-12	640-132
ø 12-16	640-133
ø 16-22	640-134



582 • 19" desktop rack/laboratory trolley



Sample configuration with subracks

19" desktop rack 4 U

The 19" desktop rack is a simple assembly stand for 19" components in laboratories and/or testing rooms.

Finish:

RAL 7035 light grey

Dimensions (H x W x D):

190mm (4 U) x 502mm x 250mm

Delivery:

unassembled

Included in delivery

Item	Pc.	Description
1	1	Baseplate
2	1	Side piece, left
3	1	Side piece, right
4	16	Screws, M5 x 12
5	16	Decorative washers, M5 with collar
6	16	Captive nut, M5-8
7		Assembly material

Part no.

58-2004-00

Lab trolley

Carrying capacity: **Delivery:**

approx. 150kg

unassembled

Finish:

RAL 7035 light grey

Included in delivery

Item	Pc.	Description
1	2	Side frame
2	4	Castors (2 with brakes)
3	1	Handle
4		
5	2	Support shelves
6	1	Rear panel
		Assembly material

Part no.

581-101

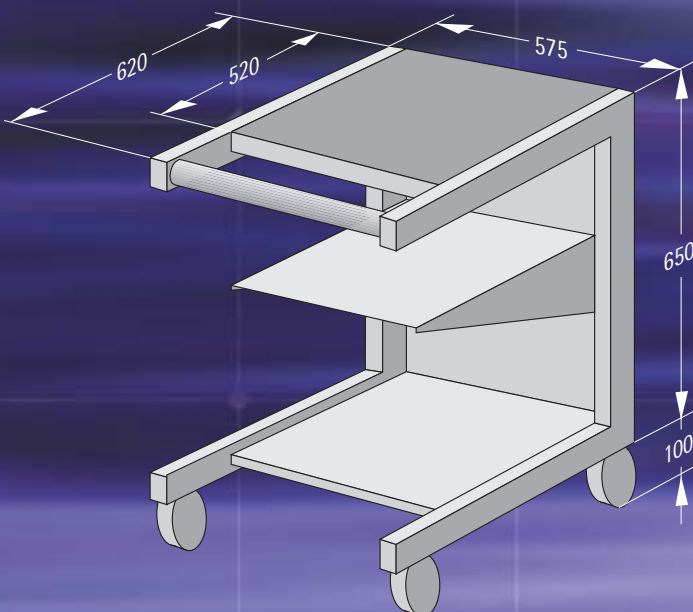
Shelf for lab trolley

Finish:

RAL 7035 light grey

Part no.

581-103





Visions become reality ...



Special cabinet combinations

- based on the cabinet system 315 and the Vari 500 housing system



Visions become reality ...



VARIrack

- OEM server cabinet
- according to customized requirements and design