



**VARIRack**

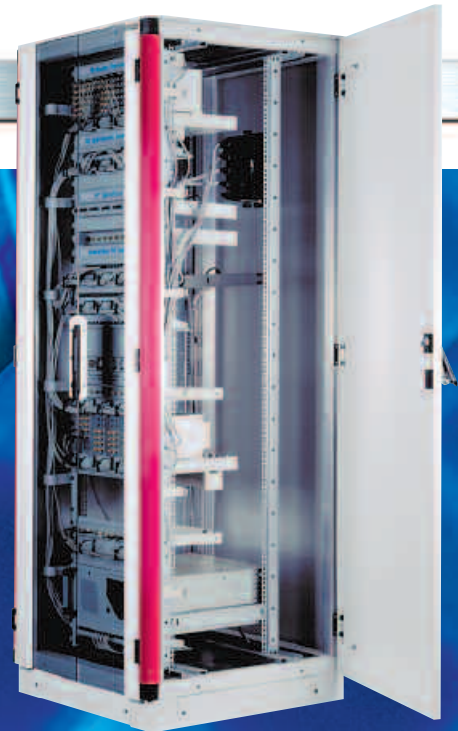
**THE FLEXIBLE**





# VARiRack

The Flexible



- **High-grade design**
  - aluminium extrusions
  - colours according to customer's wishes
- **Symmetry of all sides**
  - all cover parts can be mounted at all sides (possibility to mount 4 doors)
  - all components can be mounted at front and sides
- **Installation advantages**
  - side panels hingeable and lockable with sash handle
  - cable entry on top or bottom with integrated strain relief
  - 19"-level can be mounted variable in depth
  - dismountable and still extremely high stability
- **19"-and metric system solutions**



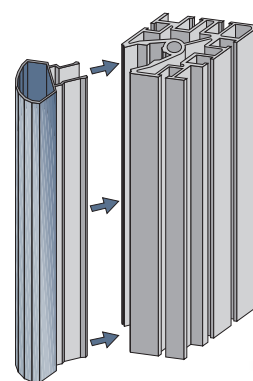


With the modular and completely symmetric cabinet system VARTrack apraNET offers optimised installation conditions and perfect cable management.

The completely symmetric and dismountable rack consists of 2 coloured top-/bottom frames made from sheet steel and four vertical aluminium extrusions. Into these extrusions four coloured design extrusions can be clipped to reach a concise column design. Because of the complete symmetry of the rack, doors can be mounted at the sides as well, which enables a direct access to the cabling room.

The multifunctional traverses offer the possibility to mount 19"-levels and divided levels. They can be adjusted individually variable in depth. The 19"-level can be shifted to one side if more space for the cable management is needed on the other side.

The VARTrack system consists of several standard cabinets which enable you to order the complete system with just one part number. Of course, you can configure your own individual VARTrack system as well.



Colours according to customer's wishes





### **VARI**rack plug & play 2000 x 800 x 800

- dismountable aluminium cabinet frame
- two sash doors
- rear hinged door, also mountable at side
- front viewing door with tinted and toughened safety glass
- both doors with turning lever lock to accept a profile half cylinder
- 19" level 42U front and rear
- 10 side-mounted cable routing hoops on front 19" frame
- two cable retainer bars with integrated cable management bracket included
- top plate 3-parts, with temperature controlled ventilation module, 3 fans, variable speed
- cabinet lamp with switch, service power socket and magnet holder
- 7-way aluminium power socket strip 19", 1U
- earthing set 2.5 mm<sup>2</sup>, assembled
- cable entry socket H=100 mm
- 19" set of screws M5, 50 pcs
- fully assembled, pre-wired to mains socket and tested
- serial number

**Finish:**

cover parts RAL 7035 light grey, design extrusion RAL 5014 pigeon blue

**Delivery:**

fully assembled, base included

Dimensions(HxWxD) :	Order No.
2000+100 x 800 x 800	31-6901-15



### **VARI**rack active 1200 x 800 x 800 / 2000 x 800 x 800

- dismountable aluminium cabinet frame
- two sash doors
- one rear sash door - shortened H = 1800mm
- one front viewing door with tinted and toughened safety glass and turning lever lock to accept a profile half cylinder
- 19" level 42U front and rear
- 8 side-mounted cable routing hoops on front 19" frame
- top plate closed
- fan module with a throughput of 160m<sup>3</sup>/h - assembled on the rear sash door, may be assembled on side
- filter set for cooling module
- earthing set 2.5 mm<sup>2</sup>, assembled
- cable entry socket H=100 mm
- 19" set of screws M5, 50 pcs

**Finish:**

cover parts parts RAL 7035 light grey, design extrusion RAL 5014 pigeon blue

**Delivery:**

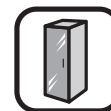
fully assembled, base included

Dimensions(HxWxD) :	Order No.
1200+100 x 800 x 800	31-6901-01
2000+100 x 800 x 800	31-6901-02

from your requirements and our experiences.



Overview 19" LAN cabinets **VARI**rack • 316



**VARI**rack passive

1200 x 800 x 800 / 2000 x 800 x 800

- dismantlable aluminium cabinet frame
- three sash doors (on the side and rear)
- a front viewing door with tinted and toughened safety glass and turning lever lock to accept a profile half cylinder
- 19" level 42U front
- 8 side-mounted cable routing hoops on front 19" frame
- cable entry socket H=100 mm
- top plate 3-parts, 1-part top plate (at H=1200mm)
- earthing set 2.5 mm<sup>2</sup>, assembled
- 19" set of screws M5, 50 pcs

**Finish:**

cover parts RAL 7035 light grey, design extrusion RAL 5014 pigeon blue

**Delivery:**

fully assembled, base included

Dimensions(HxWxD) :	Order No.
1200+100 x 800 x 800	31-6900-01
2000+100 x 800 x 800	31-6900-02



**VARI**rack 19" standing work area / 19" floor distributor

- 19" standing work area: table plate W x D = 712 x 800 (light grey)
- 19" floor distributor: one-piece top plate of sheet metal
- dismantlable aluminium cabinet frame
- three sash doors (on the side and rear)
- a front tinted viewing door with turning lever lock (profile half cylinder possible)
- 19" level 19U front and rear
- 4 traverses for depth adjustment of the 19" levels
- rear cable entry with brush, mounted above for the entry of screen and keyboard cable (see photo ②), with 19" floor distributor mounted underneath to cable entry
- 4 levelling-out feet for adjustment of the work area
- 2-part bottom plate
- 19" set of screws M5, 50 pcs

**Finish:**

cover parts parts RAL 7035 light grey, design extrusion RAL 5014 pigeon blue

**Delivery:**

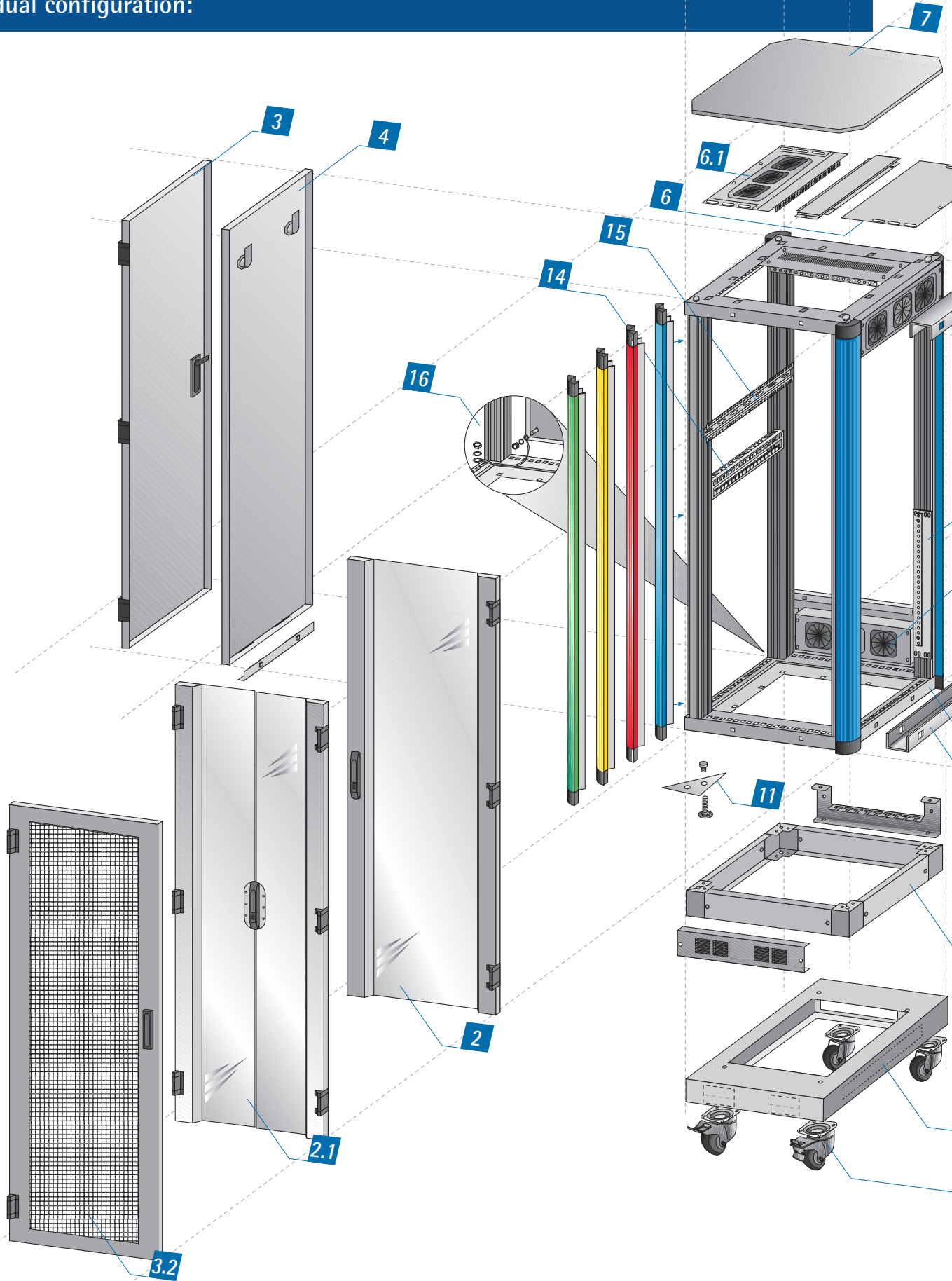
fully assembled

Description 19"	Dimensions (HxWxD) :	Order No.
Standing work area	1100x712x800	31-6900-20
Floor distributor	1100x650x800	31-6901-61





Individual configuration:





# 19" cabinet system VARIRack • 316

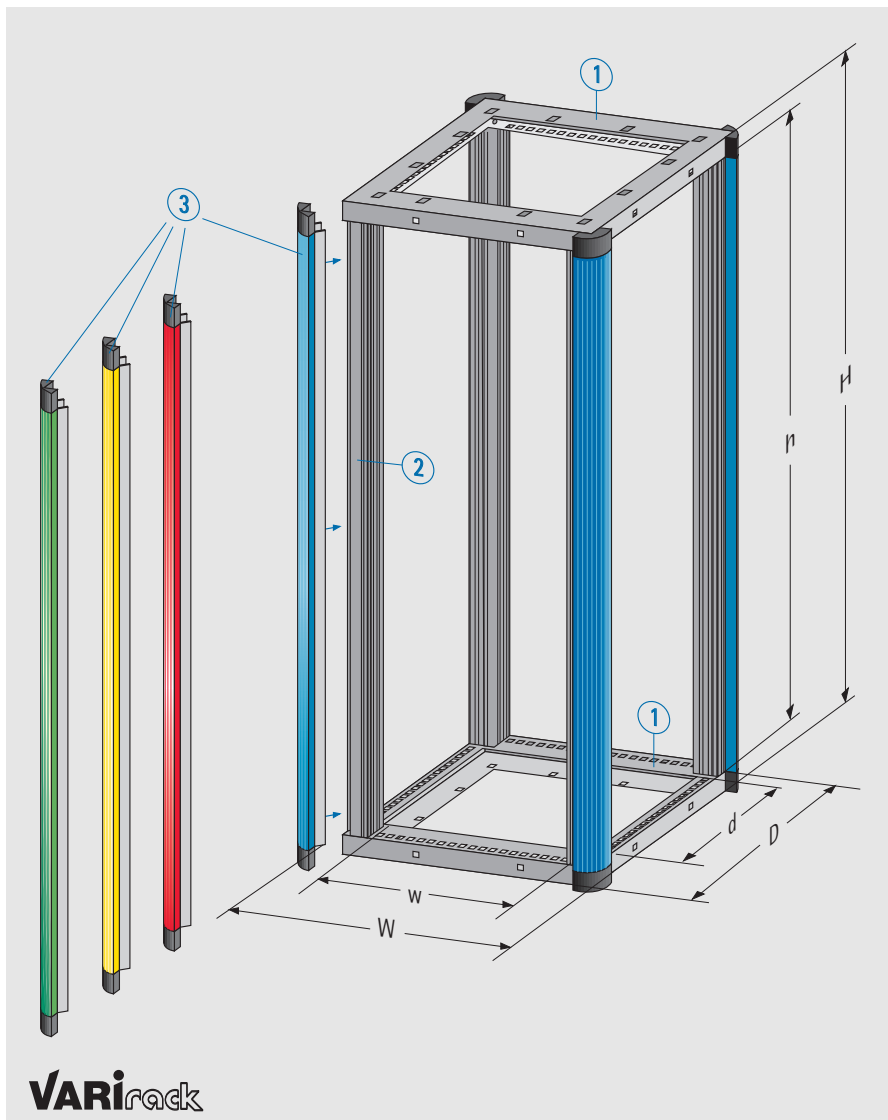
Configure your individual cabinet.  
Select your required cabinet components step by step.



Pos.	Description	Page
1	Dismountable cabinet frame	1.8
2	Viewing door	1.9
2.1	Viewing door split	1.9
3	Closed door	1.9
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Pos.	Description	Page
5	Universal modules for shortened door	1.9
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Pos.	Description	Page
11.1	Set of rollers	1.11
12	19" mount	1.12
13	Traverse for 19" assembly	1.12
14	Multifunctional traverse	1.12
15	Cabling retainer bars	1.12
16	Protective earthing set	1.12
17	Shelves	1.13
18	Earthing bar	1.13



### 1 Dismountable cabinet frame

The standard cabinet frame configuration comprises of two identical sheet metal frames ①, four Al extrusions and four coloured Al design extrusions (RAL 5014 pigeon blue) clipped on to the extrusions.

**Finish:**

- ① top/bottom frame:  
RAL 7035 light grey
- ② extrusion:  
chromated (conductive)
- ③ design extrusion\*: RAL 5014  
pigeon blue (standard colour)

**Delivery:**

cabinet frame fully assembled






$h = H - 100$

$w = W - 150$

(Please refer to section 1.12 for additional dimensions)

\* We can match the colour of the design extrusions ③ to your own company colours if desired.

#### Other preferential colours:

-  RAL 1032 (broom yellow)
-  RAL 5010 (gentian blue)
-  RAL 3002 (carmine red)
-  RAL 6029 (mint green)
-  RAL 7037 (dusty grey)

Dimensions (WxD):	Dimensions (H):	Order No.
650 x 650	1000	31-6660-00
650 x 800	1000	31-6860-00
800 x 800	1000	31-6880-00
650 x 650	1200	31-6660-02
650 x 800	1200	31-6860-02
800 x 800	1200	31-6880-02
650 x 650	1600	31-6660-06
650 x 800	1600	31-6860-06
800 x 800	1600	31-6880-06
650 x 650	1800	31-6660-08
650 x 800	1800	31-6860-08
800 x 800	1800	31-6880-08
650 x 650	2000	31-6660-10
650 x 800	2000	31-6860-10
800 x 800	2000	31-6880-10
650 x 650	2200	31-6660-12
650 x 800	2200	31-6860-12
800 x 800	2200	31-6880-12

For deeper cabinet frames (D=1000/1200) please refer to chapter 2 "server cabinets"!



# 19" cabinet system VARIRack • 316

## 2 Viewing door

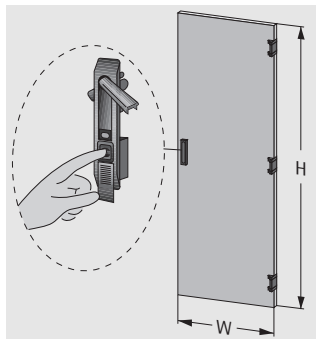


- toughened safety glass grey 5mm thick, turning lever lock for profile half cylinder (pushbutton opening)

**Finish:**  
RAL 7035 light grey

Height	Width	Order No. viewing door	Order No. closed door	Order No. sash door
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

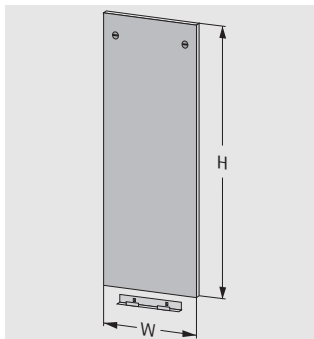
## 3 Closed door



- made from sheet metal, turning lever lock for profile half cylinder (pushbutton opening)

**Finish:**  
RAL 7035 light grey

## 4 Sash door

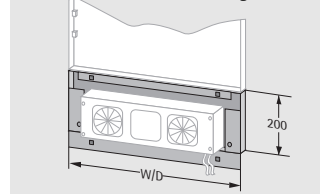


- made from sheet metal, with sash fastener locking mechanism

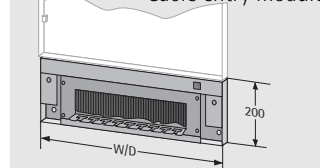
**Finish:**  
RAL 7035 light grey

## 5 Universal modules for shortened door

- Accommod. of cooling module



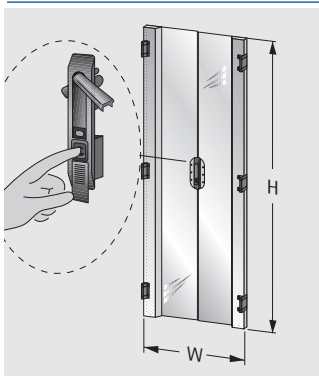
- Cable entry module



The modular VARIRack system allows, for instance, the fitting of 1.6m high doors to the 2m cabinet frame. The available space below or above the door may be used for cable entry or fitting of fans, for example. The modules have a height of 200mm and may be configured one on top of another as required.

Type	(W)/ (D)	Order No.
Accom. of cooling module	650	31-6110-22
	800	31-6110-23
Cable entry module	650	31-6110-10
	800	31-6110-11

## 2.1 Viewing door split

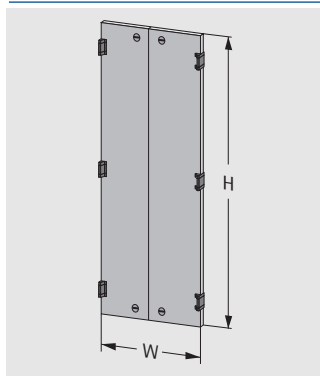


- toughened safety glass grey 5mm thick, turning lever lock for profile half cylinder (pushbutton opening)

**Finish:** RAL 7035

Dimensions: (HxW)	Order No.
2000 x 800	31-6820-05

## 3.1 Closed door split

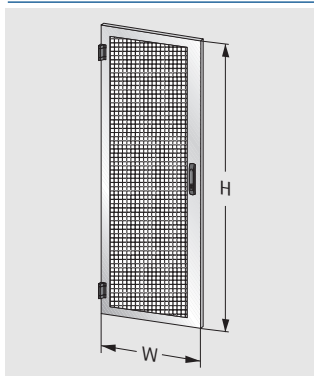


- made from 1.5mm sheet metal, with sash fastener locking mechanism top and bottom

**Finish:** RAL 7035

Dimensions: (HxW)	Order No.
2000 x 800	31-6820-06

## 3.2 Door ventilated

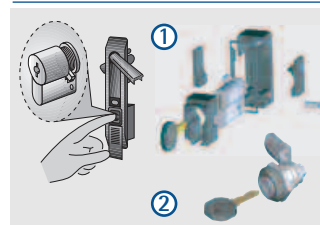


- made from sheet metal (with perforated plating), turning lever lock for profile half cylinder (pushbutton opening)

**Finish:** RAL 7035

Dimensions: (HxW)	Order No.
2000 x 800	31-6820-12

## 3.3 Profile half cylinder/ profile sash fastener



- profile half cylinder ① complete with key.
- adapter for integration of an individual cylinder (DIN 18252)
- profile sash fastener for locking of the sash doors with profile key ②

Description	Order No.
Profile half cylinder	67-6316-00
Adapter	67-6316-10
Profile sash fastener	676-181
Spare key	676-200



**6** Graphical overview for determining cover plates for top or bottom mounting

• The cover plates are mountable to the cabinet frame (top and bottom) as per the various ways depicted .

Cabinet sizes	W=650		W=800	
D=650	3	1	6	4
	7	7	8	8
	1	3	4	6
D=800	3	1	6	4
	7	7	8	8
	3	2	6	5
		7		8
		1		4

Type	Height	Description	Dimensions (w x d)	Order No.
	1	Cover plate closed 1, W=650	490 x 140	31-6111-11
	2	Cover plate closed 2, W=650	490 x 240	31-6111-12
	3	Cover plate closed 3, W=650	490 x 290	31-6111-13
	4	Cover plate closed 4, W=800	640 x 140	31-6111-14
	5	Cover plate closed 5, W=800	640 x 240	31-6111-15
	6	Cover plate closed 6, W=800	640 x 290	31-6111-16
	2	Cover plate fan module 2, W=650	490 x 240	31-6111-22
	3	Cover plate fan module 3, W=650	490 x 290	31-6111-23
	5	Cover plate fan module 5, W=800	640 x 240	31-6111-25
	6	Cover plate fan module 6, W=800	640 x 290	31-6111-26
	1	Cover plate for cable entry	490 x 140	31-6111-21
	4	Cover plate for cable entry	640 x 140	31-6111-24
	7	Transverse strut W=650		31-6111-00
	8	Transverse strut W=800		31-6111-01
	-	Set of brushes for opening "Cover plate-fan module"	365 x 120	31-6111-10

**6.1** Cooling module

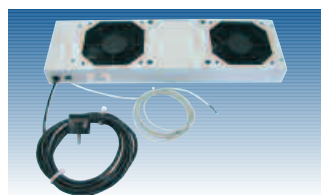


- cooling module fully pre-wired with connector cable 2.5m length
- **temperature regulator** 0° to +60°C
- ventilation or extraction, depending on assembly position

**Finish:** RAL 7035/black  
**Material:** sheet metal/plastic

Descrip.	Throughput (m³/h)	Order No.
1 x	160	23-0300-01
2 x	320	23-0300-02
3 x	480	23-0300-03

**6.2** Variable speed fan module

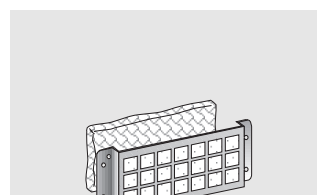


- Cooling module fully pre-wired to connector cable 2.5m length
- **temperature sensor** for regulation of rpm (low noise)
- ventilation or extraction, depending on assembly position

**Finish:** RAL 7035/black  
**Material:** sheet metal/plastic

Descrip.	Throughput (m³/h)	Order No.
1 x	150	23-0300-51
2 x	300	23-0300-52
3 x	450	23-0300-53

**6.3** Filter set for cooling module

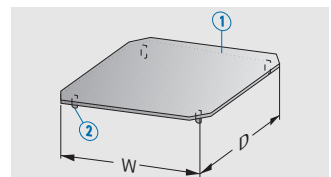


**Finish:** non-coated

**Material:** aluminium / filter mat

Order No.
31-6100-99

**7** Top plate, closed



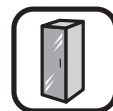
The top plate ① can be raised approx. 20 mm for ventilation by 4 integrated stand-offs. ②

**Finish:** RAL 7035  
**Material:** sheet metal

Dimensions	Order No.1 p.
650 x 650	31-6016-60
800 x 650	31-6018-60
800 x 800	31-6018-80

A further increase of 15mm is possible by using additional stand-offs. ②

Order No. (set - 4 pieces)
31-6016-65



# 19" cabinet system VARIRack • 316

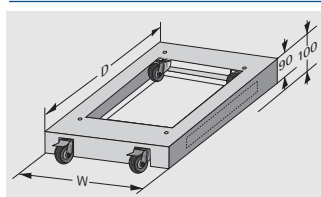
## Base

The bases of the VARIRack cabinet system are designed such that the cabinet frame locks in to place on the base and is then simply secured with at least two diagonal

screws. The base height is either 100 or 115mm. The individually detachable panels (see pos. 9.1) on the side, front and rear can be selected individually in addition to just

having the base, adjusting feet for evening-up the height can be screwed onto either the cabinet frame directly (without base) or onto the base (see pos. 11).

### 8 Roller base



- roller base with two guide and two brake rollers
- cable entry possible at rear and side
- load capacity: 400kg

**Finish:**

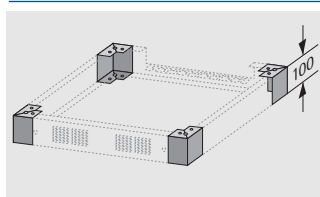
RAL 7035 light grey/black

**Material:**

sheet metal/plastic

Width (W)	Depth (D)	Order No.
650	650	31-6126-60
650	800	31-6126-80
800	650	31-6128-60
800	800	31-6128-80

### 9 Base corner set

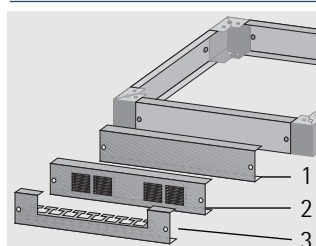


**Finish:** RAL 7035

**Material:** sheet metal

Height (H)	Order No.
100	31-6026-20

### 9.1 Base panels



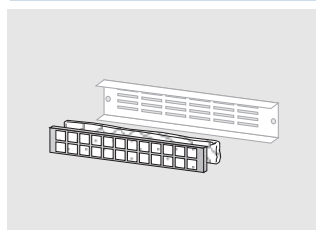
- for individual assembly
- four panels complete a base

**Finish:** RAL 7035

**Material:** sheet metal

Type	Width/Depth Cabinet frame	Order 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

### 9.2 Filter set for base panels "ventilated" (type 2)



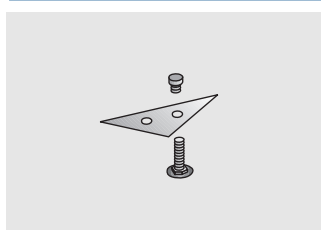
**Finish:** zinc coated/white

**Material:**

sheet metal/filter mat

Width/Depth	Order No. per set
650	31-6101-98
800	31-6101-99

### 11 Adjusting foot



- for screwing to the cabinet frame or to base

**Finish:**

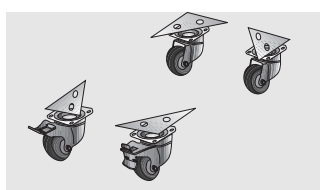
galvanized/black

**Material:**

sheet metal/plastic

Description	Order No. per set
Cabinet frame	31-6026-00
Base	31-6026-05

### 11.1 Set of rollers



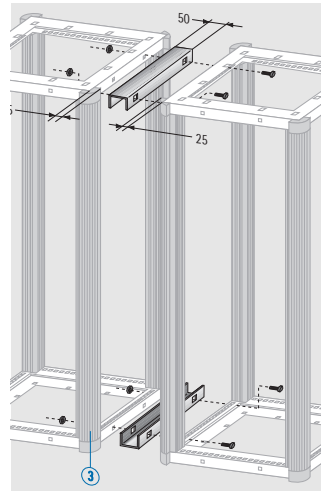
- for screwing to the cabinet frame
  - load capacity up to 400 kg
- The roller set comprises of four guide rollers (two with stop brake). It is screwed directly to the cabinet frame, allowing speedy relocation of the network cabinet.

**Finish:** zinc coated/black

**Material:** sheet metal/plastic

Order No.
31-6026-10

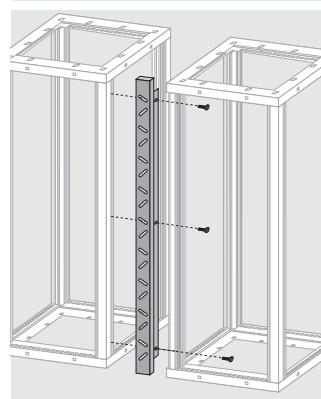
## 10 Cabinet connector set



- for adding as many cabinets as required next to or behind each other with design extrusion ③

Cabinet depth	Order No. per set
650	31-6100-16
800	31-6100-40

### 10.1 Cabinet connector set without design extrusion



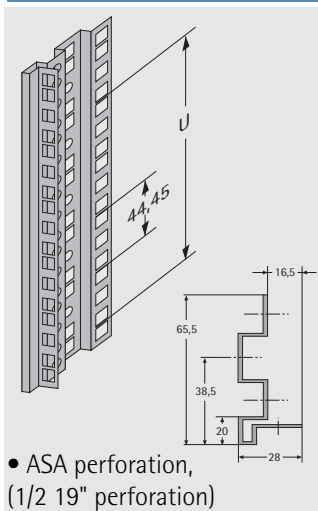
- for adding as many cabinets as required next to or behind each other **without** design extrusion
- achieving a saving on width of 50mm per frame in row

**Note:** Can not be used with "top plate closed" pos. 7

Cabinet height	Order No. per set
1800	31-6125-38
2000	31-6125-42
2200	31-6125-46



**12** 19" vertical mountings

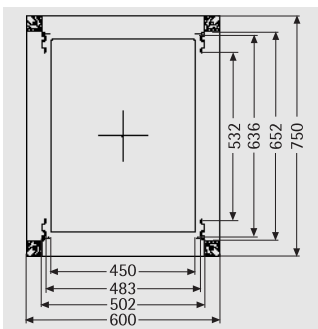


• ASA perforation, (1/2 19" perforation)

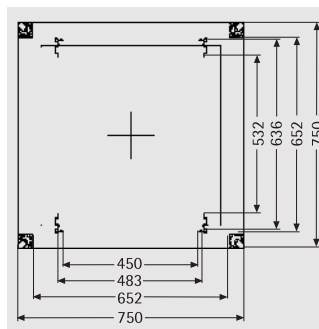
**Finish:** galvanized  
**Material:** sheet metal

U	Order No. Mountings	Order No. Traverse W=650	Order No. Traverse W=800
6	31-6120-06	31-6120-60	31-6120-61
9	31-6120-09	31-6120-62	31-6120-63
12	31-6120-12	31-6120-60	31-6120-61
15	31-6120-15	31-6120-60	31-6120-61
19	31-6120-19	31-6120-62	31-6120-63
24	31-6120-24	31-6120-60	31-6120-61
33	31-6120-33	31-6120-60	31-6120-61
37	31-6120-37	31-6120-62	31-6120-63
42	31-6120-42	31-6120-60	31-6120-61
46	31-6120-46	31-6120-62	31-6120-63

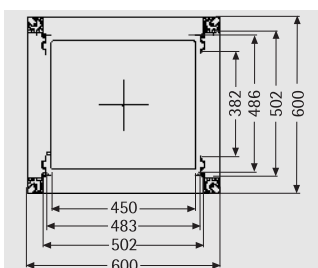
**Technical information 19" dimensions when installed**



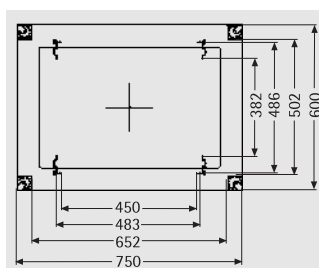
• Top view  
Cabinet frame WxD=650x800



• Top view  
Cabinet frame WxD=800x800

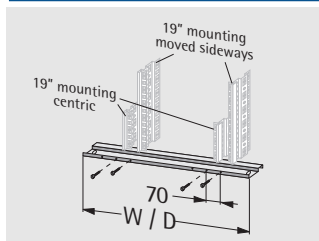


• Top view  
Cabinet frame WxD=650x650



• Top view  
Cabinet frame WxD=800x650

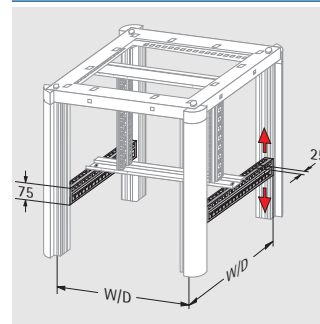
**13** Traverse for 19" integration



• two traverses per 19" level are required for the integration of the 19" vertical mountings  
• variable depth adjustable  
• with W=800 it is possible to move the 19" level sideways to increase the area for cable switching on one side (see diagram)

**Finish:** galvanized  
**Material:** sheet metal

**14** Multifunctional traverse

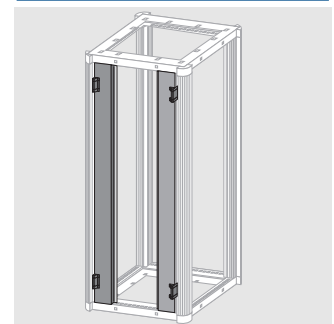


• 19" modular extension  
• for tidy cable routing  
• variable height adjustment

**Finish:** galvanized  
**Material:** sheet metal

Depth (D) Width (W)	Order No. 1 p.
650	31-6121-00
800	31-6121-01

**14.1** Panel, hinged at side

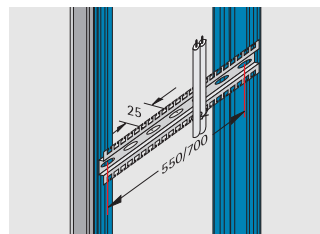


• for covering the cable switching area of **800mm** wide cabinets  
• positioning with magnetic catch

**Finish:** RAL 7035  
**Material:** sheet metal

Height	Order No.
1800	31-6122-38
2000	31-6122-42
2200	31-6122-46

**15** Cable retainer bar with integrated cable management bracket

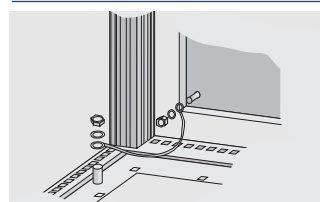


This bar used with cable ties or cable clips allows retaining of cabling.

**Material:** aluminium chromated

(D) / (W)	Order No. 1 p.
650	31-6121-10
800	31-6121-11

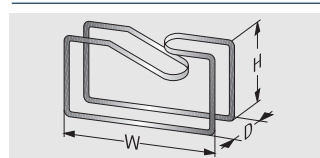
**16** Earthing set



This set provides VDE compliant earthing,  $\varnothing 2.5\text{mm}^2$  cabling for connecting individual cabinet components

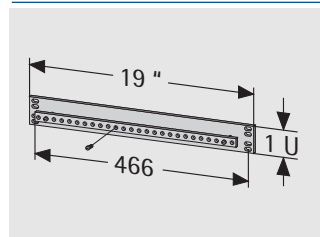
Order No.
31-6100-15

**16.1** Cable routing clamp



Dimensions H x W x D	Order No.
47 x 85 x 23	64-0036-20
65 x 125 x 23	64-0036-30
95 x 125 x 23	64-0036-40

**18** Earthing bar



• for 19" assembly  
• connection options: 27xM5  
• rail cross section: 50 mm<sup>2</sup>

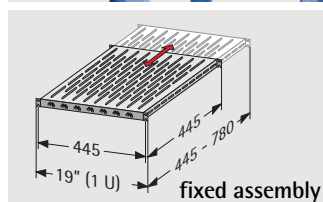
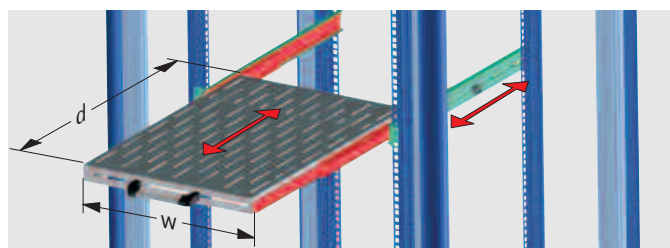
**Material:** sheet metal/copper

Order No.
64-0028-00



# 19" cabinet system VARIRack • 316

## 17 19" shelf 1U "fixed assembly" VARIPlain



- depth variable by VARIPlain system (see diagram)
- designed as 19" component
- telescopic from 455-780mm (see diagram)
- simple one-man assembly via open slotted hole in the 19" front (hook in)
- load capacity: up to 80 kg (area load)

**Finish:** RAL 7035

**Material:** sheet metal

**Dimensions (H x W x D):**

1 U (44 mm) x 19" (483 mm) x 445 mm

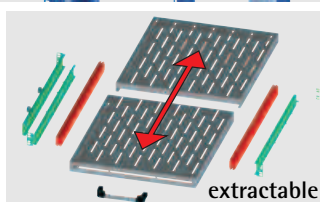
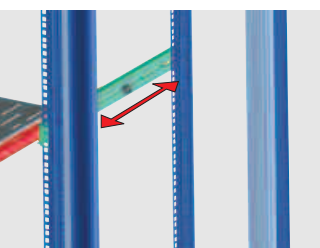
**Storage space (w x d):**

440 mm x 445 mm-780 mm

**Order No.**

31-6036-99

## 17.1 19" shelf "extractable" VARIPlain



- assembly in 19" cabinets with two 19" levels (cabinet depth variable 650/800/1000 mm)
- storage space: w = 400 mm d = max. 750 mm
- load capacity: 65 kg (area load)

**Finish:**

shelf: RAL 7035

assembly rails: zinc coated

**Material:** sheet metal

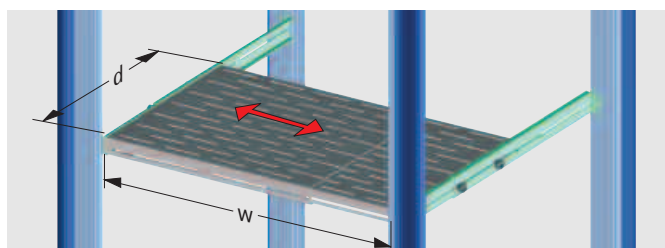
**Dimensions (H x W x D):**

1U (44 mm) x 19" (483 mm) x 480 mm

**Order No.**

31-6037-00

## 17.2 Shelf without 19" extension "fixed assembly"



- assembly over entire cabinet width 650/800 and depth 650/800/1000 mm via VARIPlain system (see diagram)
- storage space: w = 480 - 650 mm d = 400 mm
- load capacity: 50 kg (area load)

**Finish:**

shelf: RAL 7035

assembly rails: zinc coated

**Material:** sheet metal

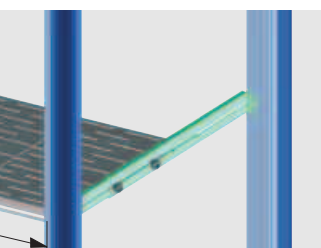
**Dimensions (H x W x D):**

44 x 400 x W = see diagram

**Order No.**

31-6037-09

## 17.3 Shelf without 19" extension "extractable"



- assembly over entire cabinet width 650/800 and depth 650/800/1000 mm via VARIPlain system (see diagram)
- maximum pullout depth: 530 mm
- load capacity: 50 kg (area load)

**Pullout:**

- can be separated
- fully extended (consists of three parts)
- lock pulled out

**Finish:**

shelf: RAL 7035

assembly rails: zinc coated

**Material:** sheet metal

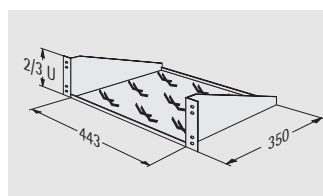
**Dimensions (H x W x D):**

44 x 400 x W = see diagram

**Order No.**

31-6037-10

## 17.4 19" shelf, fixed



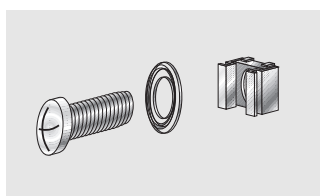
- simple assembly into 19" metric grid system (only one 19" level required)
- ventilated
- load capacity: approx. 15 kg

**Material:** sheet metal

**Finish:** RAL 7035 light grey

Height	Order No.
2 U	31-5810-20
3 U	31-5810-00

## 16.2 Screw set M5/M6



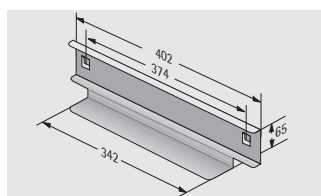
- for assembly of the 19" components

**Delivery:**

- Set of 50 (screws, washers, caged-nuts)

Description	Order No.
M 5	630-991
M 6	630-994

## Slide rails for 19" mountings, hook-in



Slide rails are hooked into the 19" mountings. They are for supporting heavy 19" plug-in units. Two 19" levels are required for mounting. Delivered in pairs.

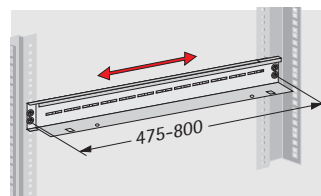
**Material:**

sheet metal 1,5mm, zinc coated

**Order No.**

31-6544-00

## Depth variable slide rails (set)



- for accepting 19" plug-in units (e.g. server) irrespective of distance between the first and second 19" level

**Material:**

sheet metal 1,5mm, zinc coated

**Order No.**

31-6544-20



Visions become reality...



Device cabinet

Media cabinet



Computer cabinet



19" industrial control cabinets