Heavy-duty cabinet RHA

Welded server cabinet,
IP20, capacity 2200 kg (22 000 N)

Loading capacity 2200 kg
The cabinet features a reinforced structure and is manufactured from materials with thicknesses of 2, 2.5, and 3 mm. The 19" vertical rails are also adapted for increased load capacity.

Power distribution unit inside of cabinet frame
2U PDU holder (optional accessory) mounted on a wide skeleton strut.

Cooling air intake (A3, A7)
The A3 and A7 cabinet versions feature a large opening in the base for cable entry and cooling air supply from the underfloor plenum (raised floor).

Flex frame
This system allows for vertical rail installation in 19", 21" and 23" spans according to the specific needs of equipment in use.

Skeleton perforation
The RHA cabinet has a perforated skeleton to ensure access of cooling air to the equipment inside. The installation of fan units can further generate cool air.

Wider body rails
Wider rails of the cabinet skeleton are intended for an additional installation of accessories, such as power distribution units or vertical cable management panels, which do not occupy space within the cabinet. Thanks to this smart solution of gripping, it does not block sliding servers even for the 600 mm wide cabinet type.

TRITON handles
The new all-metal Triton handle can be equipped with a classic or half-cylindrical locking insert.

Flexible door opening
The hinge system allows the door to open 165°. The door can be easily removed and re-mounted to change the direction of opening.

Bonding
All detachable parts are bonded in compliance with the relevant standards.

The RHA data cabinet has a robust welded construction with high load capacity. It is designed for demanding applications data and telecommunications centres. It is usually supplied with a perforated door to provide maximum cooling. It is possible to improve cooling by installing fan units to the ceiling or to the base section of the RHA cabinet. Cable entries above 19" vertical rails are covered with break-out blanking panels and also provide with an easy connection of installed technologies into a larger unit. Slightly different versions (A3, A7) are developed for „Data centers". The difference is given by screwed side panels, cable entries and hole in the floor of cabinets. This type of cabinet is intended for direct installation on the floor – it is not designed for installation on leveling feet, castors, or plinths.

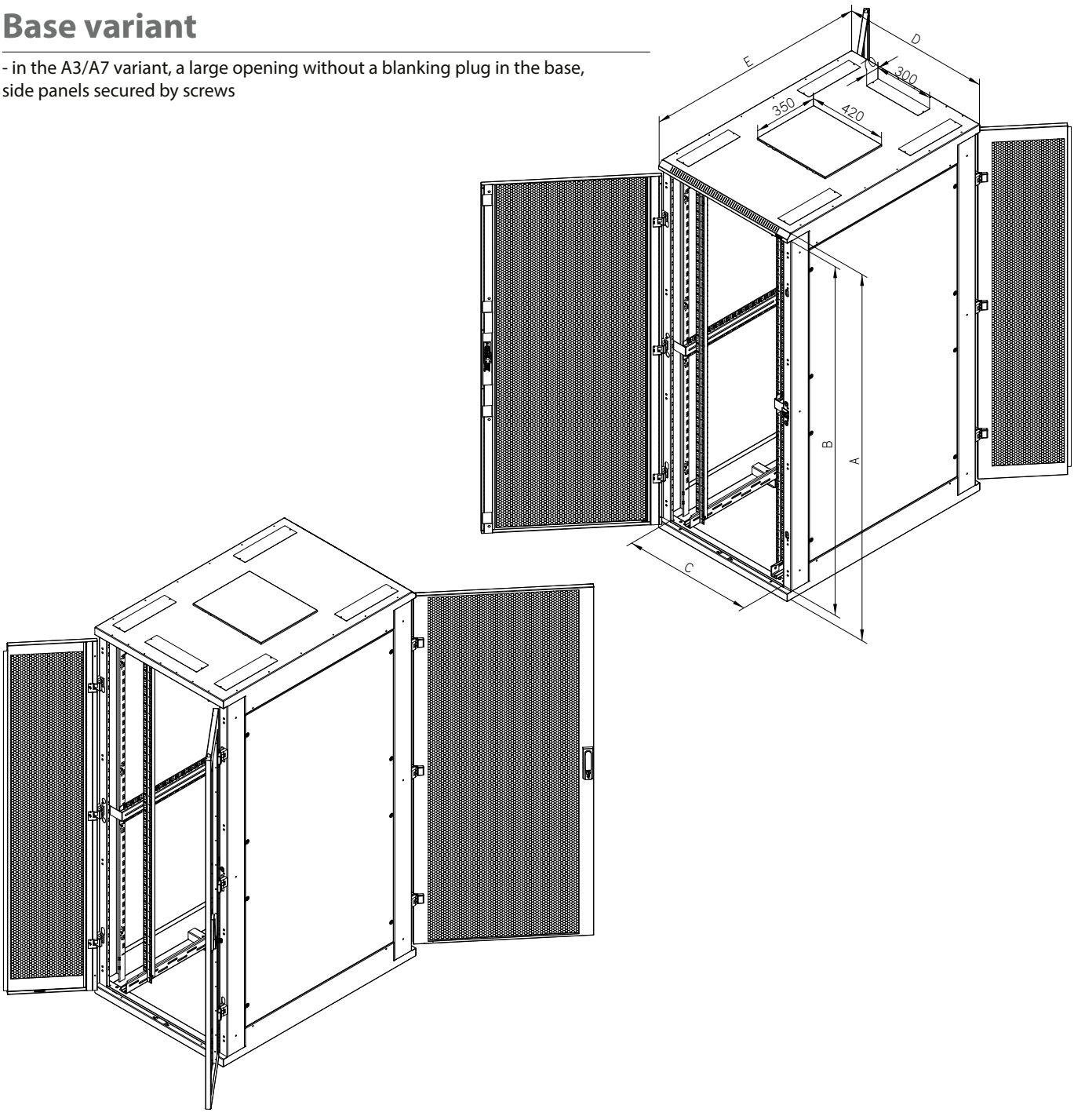
Doors
Single or double wing doors in the variants of solid metal, perforated (80% and 86% permeability) or glazed with 4 mm safety tempered glass, which can be on the front and back of the cabinet. In the picture, the door with 86% permeability.

RHA 800 x 1000								
Type	**A**	**B**	**C**	**D**	**E**	**Weight gross (kg)**	**Weight net (kg)**	**Maximal recommended load** *(Direct installation on the floor)*
	(mm)							
RHA-42-L81-CAX-Ax-GDA	1970	1868	697	800	1000	149	138	2200 kg ≅ 22 000 N
RHA-45-L81-CAX-Ax-GDA	2105	2003	697	800	1000	156	145	
RHA-47-L81-CAX-Ax-GDA	2194	2092	697	800	1000	160	149	

RHA 800 x 1200								
Type	**A**	**B**	**C**	**D**	**E**	**Weight gross (kg)**	**Weight net (kg)**	**Maximal recommended load** *(Direct installation on the floor)*
	(mm)							
RHA-42-L82-CAX-Ax-GDA	1970	1868	697	800	1200	166	152,2	2200 kg ≅ 22 000 N
RHA-45-L82-CAX-Ax-GDA	2105	2003	697	800	1200	173	158,8	
RHA-47-L82-CAX-Ax-GDA	2194	2092	697	800	1200	178	162,5	

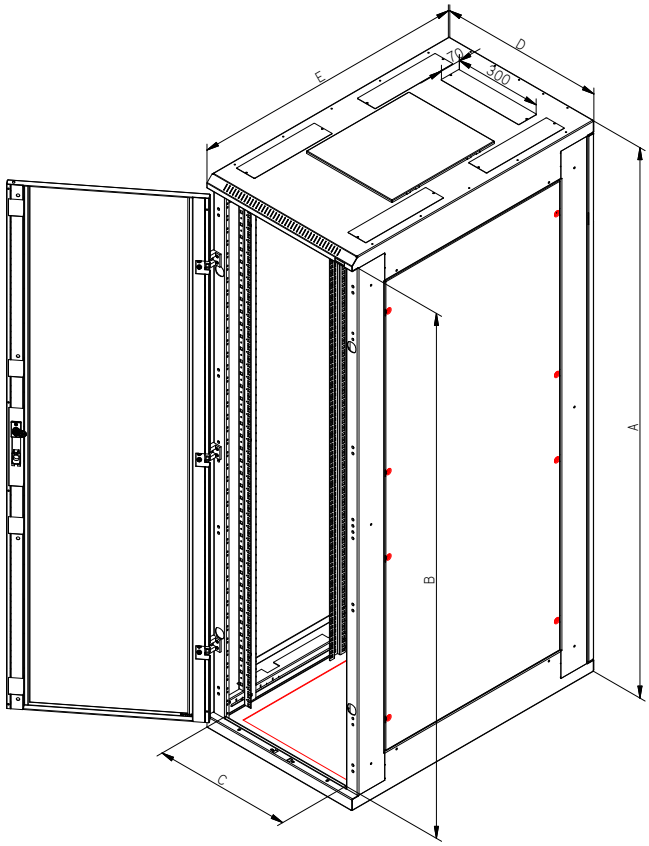
Base variant

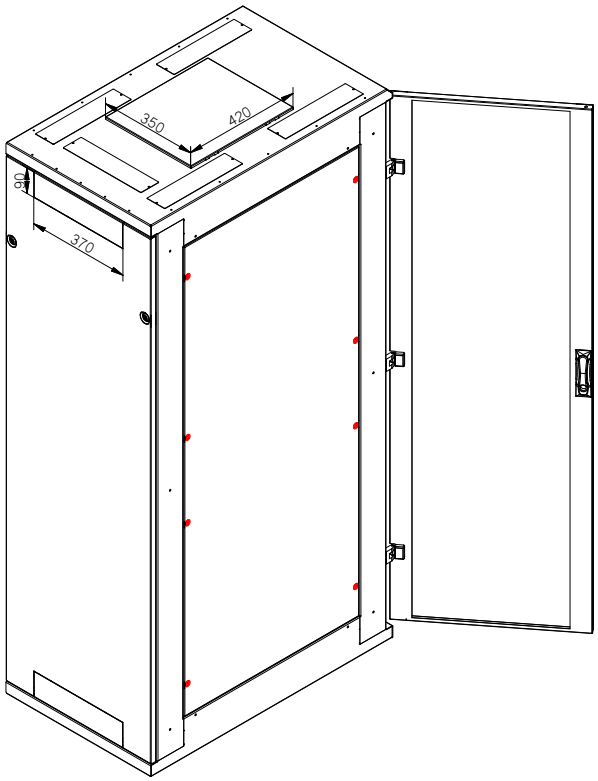
- in the A3/A7 variant, a large opening without a blanking plug in the base, side panels secured by screws



Variant A3 for data centers

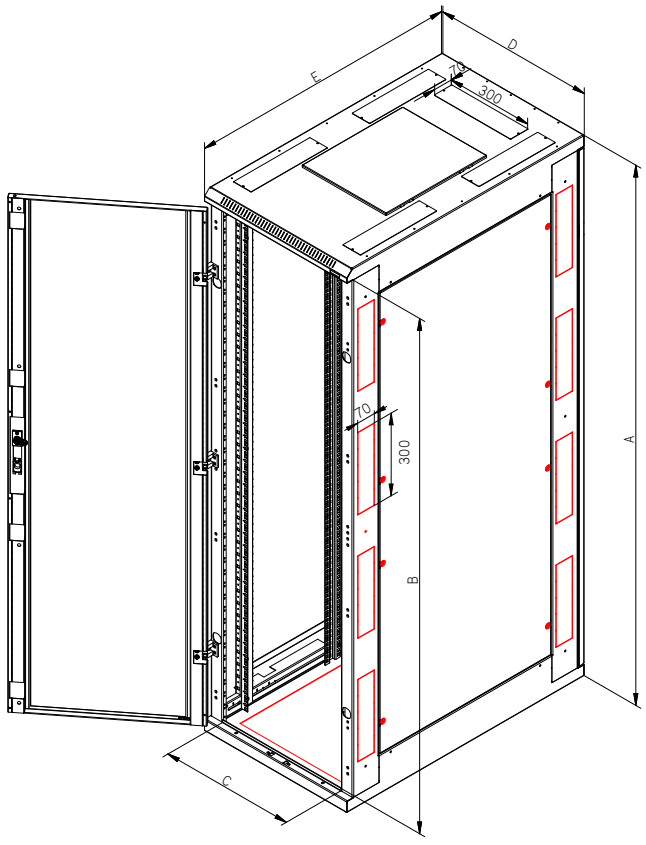
- without metal bottom
- side panels fixed by recessed screws fromt the outside (from inside possible on request)

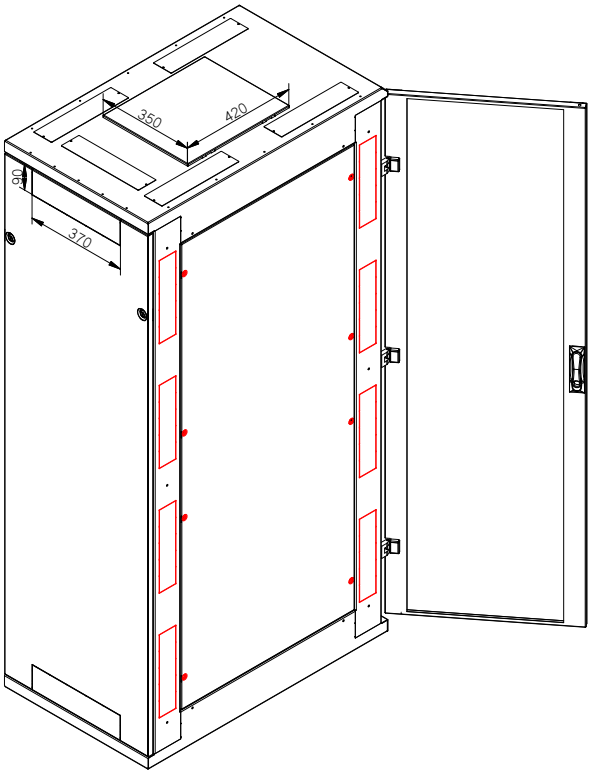


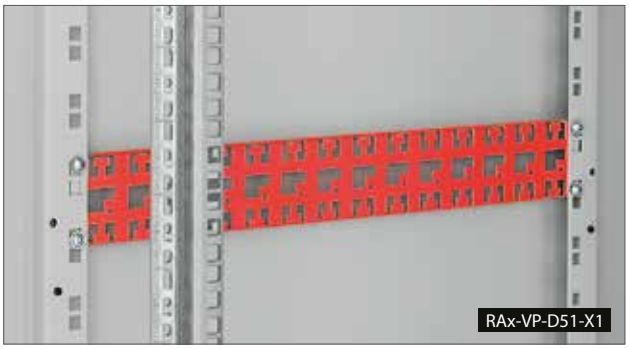


Variant A7 for data centers

- without metal bottom
- side panels fixed by recessed screws fromt the outside (from inside possible on request)
- breakout cable entries in skeleton







Type	Cabinet depth (mm)
RAx-VP-D50-X1	600
RAx-VP-D51-X1	800
RAx-VP-D52-X1	900
RAx-VP-D53-X1	1000
RAx-VP-D54-X1	1100
RAx-VP-D55-X1	1200

RAB-VP-D5x-X1, RAC-VP-D5x-X1

Cable management rail for RDA, RDE, **RHA**, RTA, RYA skeleton.

Type	Height (U)
RAX-VP-V32-X2	32
RAX-VP-V37-X2	37
RAX-VP-V42-X2	42
RAX-VP-V45-X2	45
RAX-VP-V47-X2	47

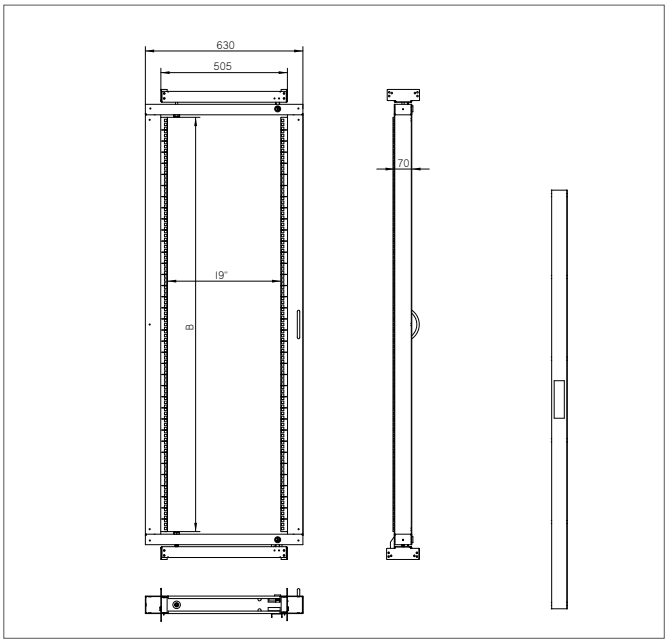
RAX-VP-Vxx-X2

Vertical cable management rail for RTA, RYA, RDA, RDE, **RHA** and RSX cabinets. Suitable for widths 600 mm and 800 mm.

Swing frame

All 800 mm wide Tritón cabinets can be equipped with a swing frame for mounting devices that require rear access. The swing frame reduces the usable height of the cabinet by 5U and can support up to 150 kg. The frame has two locks for securing it when closed. The distance of the swing frame from the cabinet doors can be smoothly adjusted. The position of the frame affects the maximum usable depth of the mounted devices. When mounted in the optimal position, it can accommodate a 19" device with a depth of up to 300 mm. The swing frame can be mounted simultaneously with 19" verticals.

Swing frame	Cabinet height (U)	B (U) Usable frame height
RAC-VM-A17-A1	22	17
RAC-VM-A22-A1	27	22
RAC-VM-A27-A1	32	27
RAC-VM-A32-A1	37	32
RAC-VM-A37-A1	42	37
RAC-VM-A40-A1	45	40
RAC-VM-A42-A1	47	42



RHA free-standing cabinet

Universal welded cabinet for data and telecommunication purposes. High load capacity for demanding applications, large choice of dimensions and variants together with a wide range of accessories and perfect workmanship of all details make it the top cabinet in our range. It usually comes with perforated doors for better cooling. This is can be boosted by installing fan units in the top or in the base of the cabinet.

PRODUCT DETAILS

Rigid construction
The RHA has a robust welded construction that is made completely of 2, 2.5, and 3 mm thick material. High quality workmanship and the latest technology ensure excellent look of the cabinet.

Flexible door opening
The hinge system allows the door to open 165°. The door can be easily removed and re-mounted to change the direction of opening. The double wing doors are equipped with hook-on hinges.

Glass
The metal doors with glued glass are made of 4 mm thick tempered safety glass, which is resistant to common impacts. When broken, it forms a number of small fragments like automotive glass. For safety reasons, we recommend closing the door after installing the equipment in the cabinet to prevent collision with other objects. Used glass is tested in a certified testing laboratory and meet the requirements of ČSN EN 12150-1+A: Glass in construction – Thermally tempered soda-lime-silicate safety glass. The tested glass meets the standard for the disintegration of glass after breakage, Certificate of Conformity CQ-24-2023, Test Protocol IKATES 58A-2024.

Tritón handles
The Tritón all-metal handle is made of Zamak zinc alloy. You can select between a standard cylinder lock with a universal key or a half-cylinder lock.

Adjustable vertical rails
Reinforced 19″ vertical rails for higher load capacity can be infinitely adjusted at any depth of the cabinet. This simplifies mounting of the devices and the organisation of the patch cables.

Removable side panels and rear cover
RHA is a cabinet with a welded frame, removable side panels, and a rear cover. The rear cover is attached to the frame with a lock. The A3 and A7 variants have side panels secured by safety countersunk screws.

Door for fan units
With this cabinet type, it is possible to order a special metal door ready for mounting RAx-CH-X0x-X3 fan units. Further information is available in the section Active cooling.

Break-out blanking panels
In the A3 and A7 variants, the cable entries of the cabinet are covered by screwed blanking plugs. To prevent dust penetration, the cables can be sealed in the opening with an anti-dust brush. An edge protection trim serves to protect the cables from damage (both are included in the supply kit of the cabinet).

Opening for a fan unit
A large opening covered with a click-in blanking panel enables mounting and removal of the Tritón fan unit from the outside of the cabinet without the need of using screws.

Rear side of the cabinet
There are two cable entries on the rear wall of the cabinet covered by break-out blanking plugs (applies to the cabinet with a rear cover). One is at the top and the other at the bottom edge of the cover. Other cable entries are on the top of the cabinet.

Perforation of the skeleton
The RHA cabinets have a perforated skeleton to provide cooling air access to the installed technology. Cooling can be supported by the installation of fan units.

Bonding
All detachable parts are bonded together according to the requirements of the relevant standard.

Flex frame
The system allows the installation of sliding rails in 19″, 21″ and 23″ spans. Another option is to shift the 19″ vertical rail spacing to one side to provide more space on the other side.

Middle pair of vertical rails
For enclosures a third pair of vertical rails for mounting the technology is supplied as standard. Thanks to their open profile, they do not restrict the installation of deeper equipment. Shorter devices can be mounted on the central vertical rail using different types of brackets (optional accessories).

Wide skeleton rails
The wide skeleton rails are designed for the additional installation of accessories, such as power distribution units or vertical cable management panels that do not occupy the 19" units inside cabinet.

Accessories in skeleton rails
The skeleton rails have mounting holes on the inner edges throughout their entire height. The holes are at the unit spacing of the vertical rails and can be can be used for mounting certain types of accessories.

Skeleton rails on A5 and A7 versions
The "A5" and "A7" versions (at the end of the cabinet code) have in skeleton rails the cable entries with break-out covers to allow patch cords to be routed between the adjacent cabinets.

OPTIONAL ACCESSORIES

RAC-VP-D5x-X1
Horizontal cable management panel. Installation in the skeleton (rail) of the cabinet.

RAX-VP-Vxx-X2
Vertical cable management panel. Installation in the cabinet skeleton rail.

Power distribution units
Possibility of installing the PDU in the skeleton rails of the cabinet using a bracket (optional accessory).

Swing frame
RHA cabinets can be equipped with a swing frame with a load capacity of 150 kg. Maximum available depth of the 19" equipment is 330 mm.

DESCRIPTION, USAGE

- 19" free-standing cabinet with IP20 protection.
- Cabinet includes 4 adjustable vertical rails for device mounting (6 rails for cabinets deeper than 800 mm).
- Cabinet construction:
  – welded steel frame with removable side panels,
  – single or double doors in versions of solid metal, perforated (80 % and 86 % air permeability) or glazed with safety tempered glass 4 mm (they can be on the front or back of the cabinet),
  – ready for installation of vertical cable management panels and power distribution units including mounting brackets into the skeleton of the cabinet,
  – preparation for easy joining of cabinets into larger assemblies.
- Max. permissible load of the door is 20 kg.
- Min. thickness of the surface finish is 65 µm.
- These cabinets are intended for installation data and telecommunication devices and their distribution systems.
- The frame of the cabinet and all the removable parts (side and rear covers, doors…) are bonded with flexible cables that have to be properly fixed and inserted into connectors throughout the period of use of the cabinet.
- There is one M8 screw placed on the bottom part of the cabinet as a central earthing point.
- Cable entries covered by break-out blanking plugs (screwed in the A3 and A7 variants) are located in the top part of the cabinet.
- Models A5 and A7 also have cable entries covered by break-out blanking plugs in the vertical pillars for easy cable routing between cabinets.
- The maximum recommended static load of the cabinet is 2200 kg* (22 000 N).

ADDITIONAL INFORMATION

Operating conditions
- **Operating environment:**
  – the indoor environment,
  – the cabinet is not intended for outdoor installations and for installations in environment that can negatively influence the functionality of the cabinet and the mounted devices (e.g. environment with danger of explosion or humid and wet surroundings).
- **Must be protected against:**
  – mechanical damage,
  – improper handling,
  – a different usage than the cabinet is intended for.
- **Improper handling is especially:**
  – overloading (exceeding the maximum recommended load capacity),
  – installation of equipment that adversely affects the operation and function of the cabinet or installed equipment,
  – change of the construction or design of the cabinet.

- The A3 and A7 models are for direct floor mounting only and cannot use bases.
- To guarantee stability, at least 65 % of the load must be installed in the lower half of the cabinet height.

Installation of the cabinet

- To ensure the maximum recommended load capacity and stability, it is essential that the load is evenly distributed between the front and rear vertical rails.
- The cabinet must be placed on a level floor.
- To avoid dust penetration in the case where cables lead through some of the cable openings, it may be sealed with a brush and secured by the fringe edge (both are included in the delivery).

Environmental protection

- All parts are made of recyclable materials and after decommissioning the cabinet, it must be disposed of according to relevant regulations.

Certificate and conformity

- This product is not certified.

** Total weight of the cabinet = weight of the cabinet itself + installed accessories + installed equipment.*
Load capacity per wheel = Total weight of the enclosure / 3.

Load Unit Notice:
*The maximum static load capacity of the enclosure is stated in the documentation in both kilograms (**kg**) and units of force – Newtons (**N**).*
The conversion is determined by the standard physical coefficient 1kg ≈ 9.81N (rounded to 1kg = 10 N for practical calculations).