

SERVER & NETWORK RACKS

RACKEON SERIES



Telenco designs and manufactures server racks to meet the technical requirements, such as load capacity and access control, specific to critical and strategic infrastructures such as data centers. The network version includes advanced solutions for organizing cable routing.

Each product is designed to meet the main challenges of these environments:

Optimize and separate airflows to reduce energy consumption

Ensuring operating comfort that facilitates cabling operations

Accommodate power distribution equipment (PDU) and connectivity (fiber optic and copper)

These racks are designed for optimal integration into urbanized alleys with confinement.

TECHNICAL SPECIFICATIONS

- Available sizes:
 - Height: 42U - 47U - 52U
 - Width: 600, 800 or 1000 mm
 - Depth: 600, 800, 1000, or 1200 mm
- Complies with standards:
 - EN 60297-3 (19")
 - EN 60950 (grounding)
 - EN 61587 (static load 1500 kg)
 - DIN 24041 (perforation)
- Multiple cable management system possibilities
- Airflow: Front and rear doors perforated at 85%
- Colors: RAL 7035 and 9005
- IP 20

PRODUCT BENEFITS

- Curved door maximizes internal space
- Maximum accessibility: High opening angle up to 180°
- Optimized airflow: 85% perforation rate
- Static and dynamic load: 1500kg
- Built to last: Steel construction made with polyester powder coat finish



Maximum
accessibility
High opening
angle of up
to 180°



Optimized airflow Rate
High perforation 85 %



Static and
dynamic Load



Built to last steel
construction
Made with finish
polyester powder

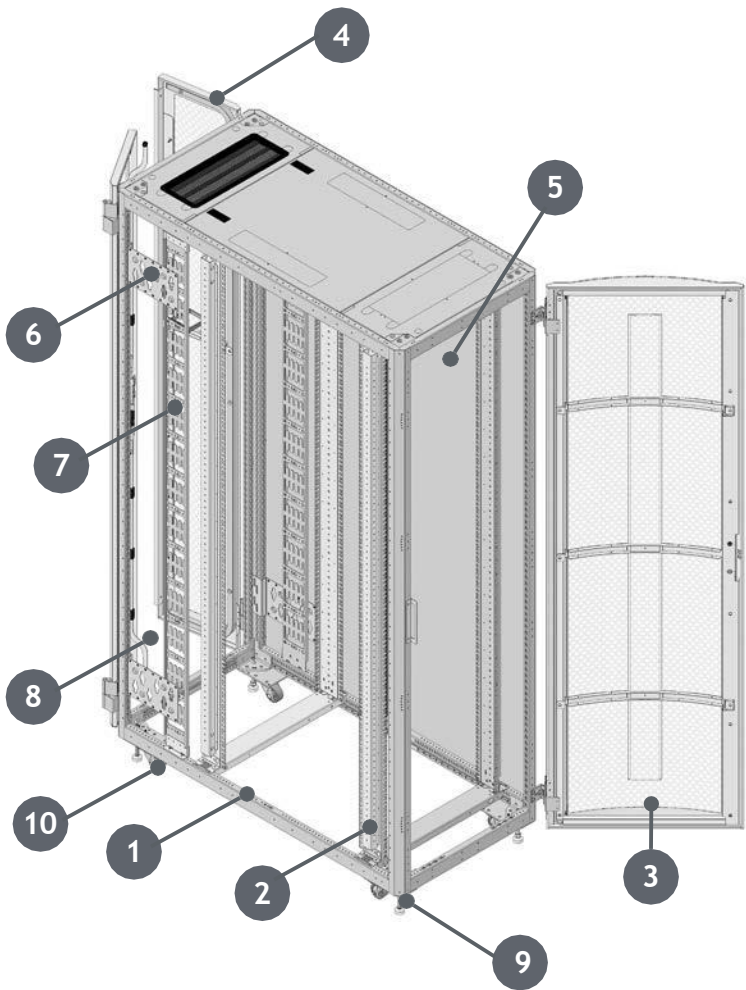


STEP BY STEP CONFIGURATION:

One of the key hallmarks of a rack deployed for a data center application is the ability to perform a configuration of all the main equipment of the cabinet.

An initial configuration can then be equipped with additional accessories related to exploitation to allow the investment to be smoothed out over time.

Configuration type :

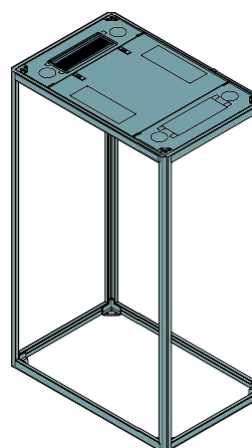


- | | | |
|---|-------------------------|---------------------|
| ① | KD BF 420612 | : Base Frame |
| ② | KP MS 4206 WH | : 19 Inch Set |
| ③ | KP OK 4206 P N1 WH | : Door |
| ④ | KP OK 4233 P WH | : Door |
| ⑤ | KP SP 4212 F WH | : Side Panel, Fixed |
| ⑥ | KP PB PDU BRACKET 03 WH | : PDU Bracket Set |
| ⑦ | KP CT 4210 WH | : Cable Trough |
| ⑧ | KP GK 01 | : Grounding Bracket |
| ⑨ | KP BF 01 | : Levelling Feet |
| ⑩ | KP BT 01 WH | : Castor Seti |

Server rack 42U 600 x 1200 mm

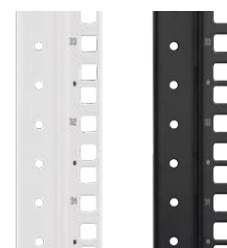
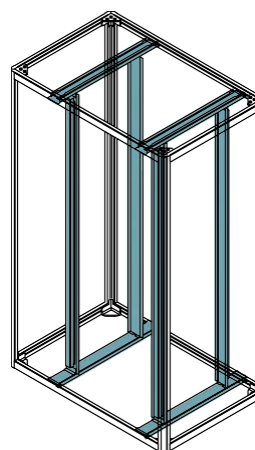
BASE FRAME

- The structure of the rack is the 1st element of the configuration chain, it is determined according to the planned application and the equipment that is integrated into the rack.
- Available sizes:
 - Height: 42U - 47U - 52U
 - Width: 600, 800 or 1000 mm
 - Depth: 600, 800, 1000, or 1200 mm

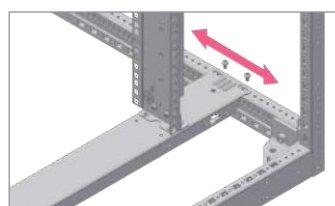


19 INCH SET

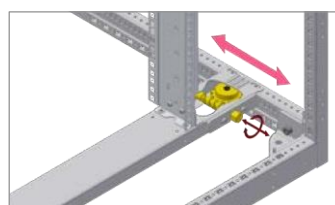
- The structure of the 19" rails and uprights of the RACKEON racks rests solely on the top and bottom profiles of the rack, without intermediate supports, which offers additional space for the management of airflows, and cabling.
- The choice of the 19" upright system simplifies depth adjustment to support different equipment and configurations.
- Developed for ease of operation by technicians, the uprights are marked (U) at the front and rear.



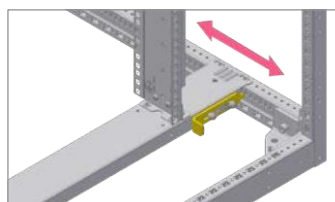
- Available variants:
 - Standard: Classic screw system.
 - Sliding: System with latch that allows adjustment in 10 mm increments.
 - With mechanical assistance: Allows the rails to be moved semi-automatically without removing the equipment from the uprights.



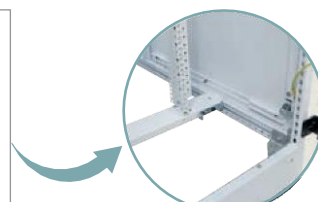
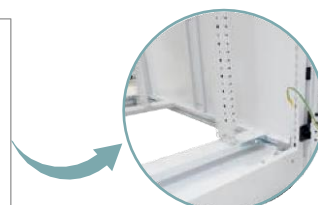
Standard type – Infinitely adjustable, without steps



Continuous mechanism type, infinitely adjustable, even under load



Slide Type – Adjustable in 10mm increments

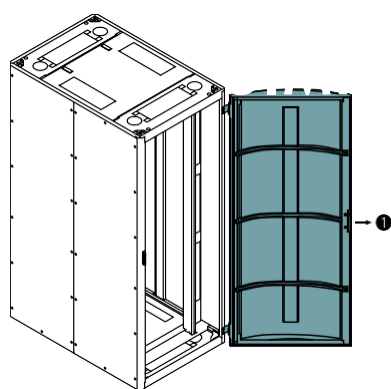


DOORS

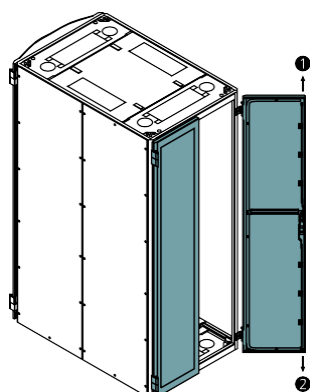
- Perforated doors are available in different variants (single, double) with 1, 2 or 4 locking points. They share common characteristics:
- Perforation up to 85%
- Opening up to 180°
- Tool-free door assembly and disassembly (only after unlocking the rack)
- Routing of the safety cable in a dedicated rail inside the door



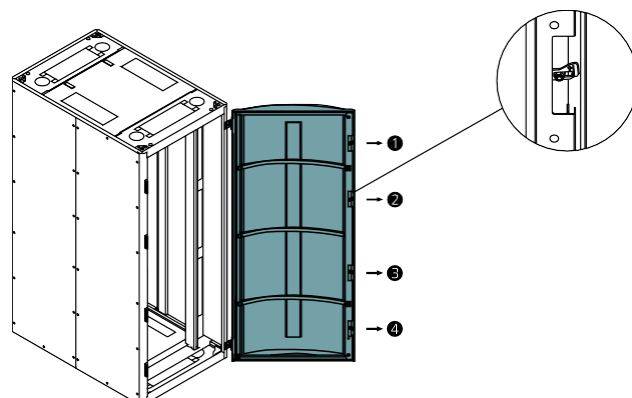
Perforated door



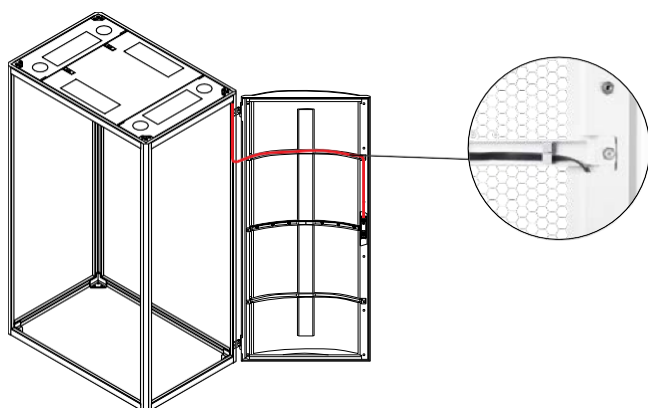
Single door



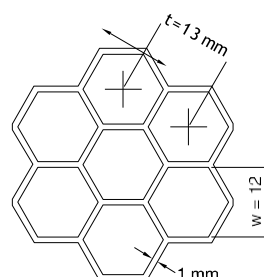
Double door



Door locking system inaccessible from the inside



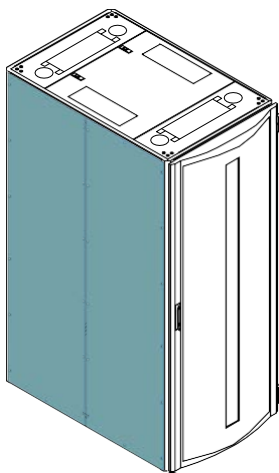
Routing of the safety cable in a dedicated rail inside the door



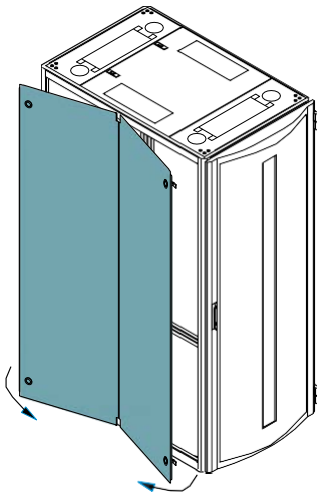
Sizing of the cells of doors perforated at 85%

SIDE PANELS

- The side panels are available in different variants (fixed and/or hinged) with or without locking system and transition openings for cable routing from rack to rack. A version is also dedicated to implementation in a containment (head of row).



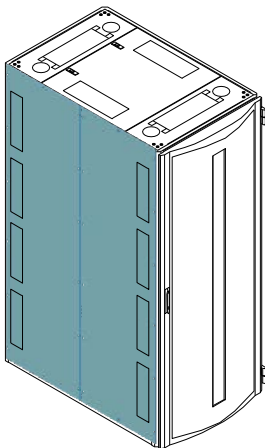
Fixed panel



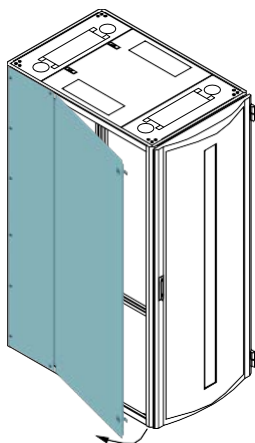
Hinged panel with locking



Hinged side panel



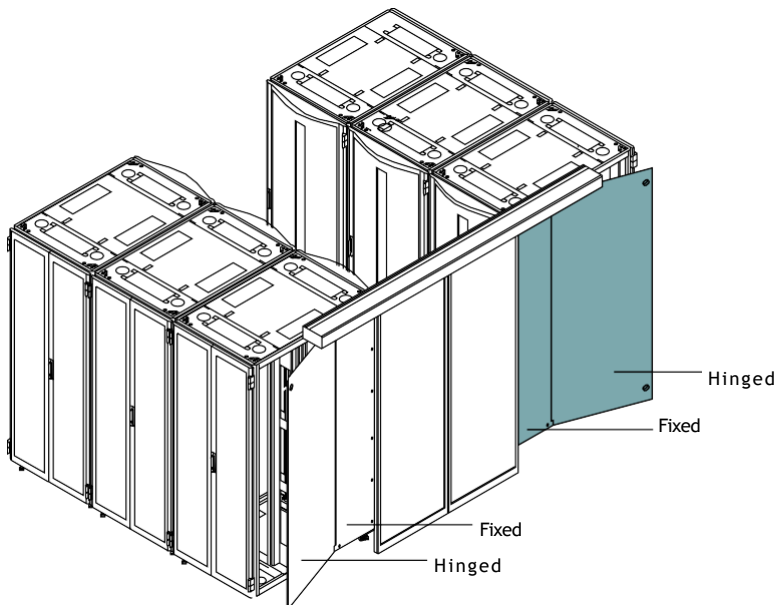
Fixed panel with Transitional openings



Fixed & hinged head of row panel

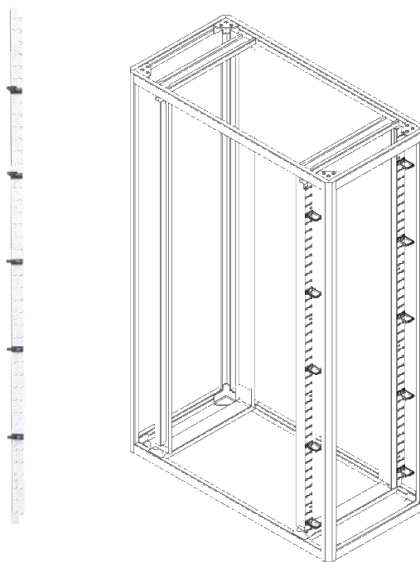


End of row side panel

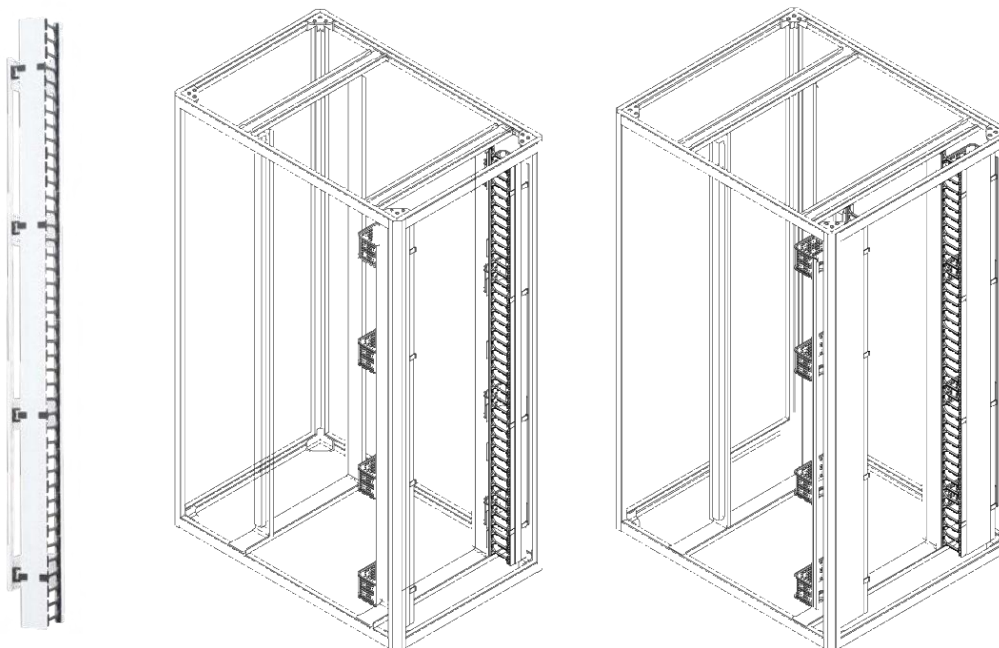


VERTICAL CABLE MANAGEMENT

- Cable routing management is an essential step in rack design. Power cable cross-sections are increasing with the rise of new technologies such as AI, as is the density of data cables (RJ45 and fiber optics).
- In addition, the entry points into the racks are diversifying (top, bottom, sideways). It is therefore essential to equip cable passage areas with accessories specifically designed to ensure efficient management.
- The vertical management system is available in different versions:
 - Basic: Rail with guide rings
 - Advanced: Column with coiling box and fingers
- These systems can be installed on the front or back side of the rack.



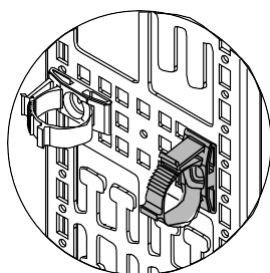
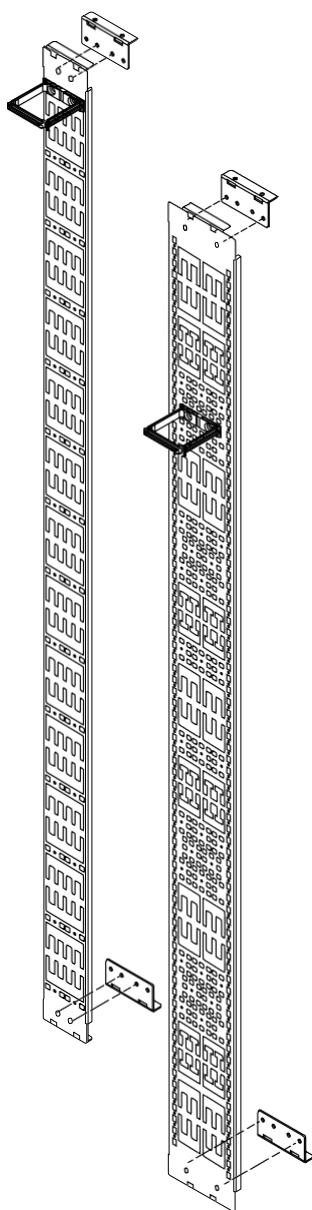
Basic System



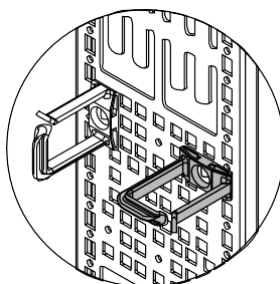
Advanced System

VERTICAL CABLE MANAGEMENT

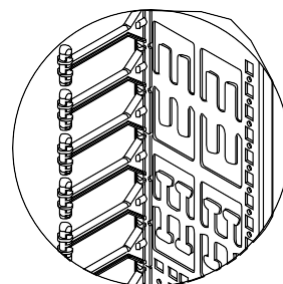
- Cable ladders are another vertical management system that can be equipped with different types of cable management accessories:
- Clip: Rail with guide rings
- Guide Rings
- Fingers
- Coiling support for over-length management



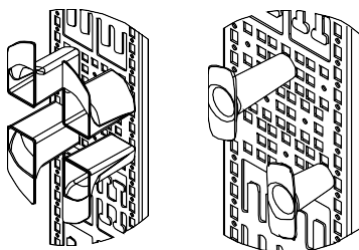
Clip-on system



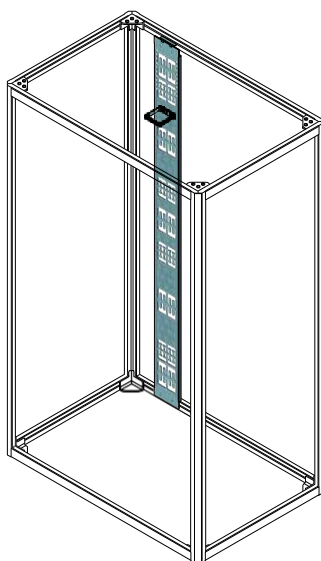
System with guide rings



System with fingers



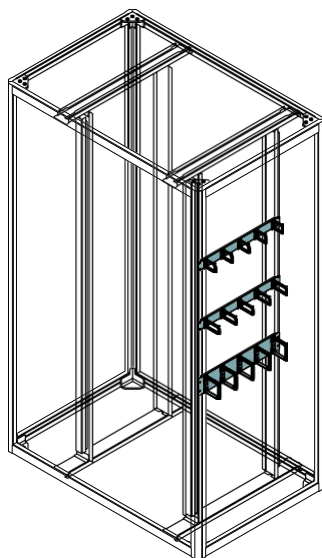
Winding bracket for managing over-lengths of fiber optic cables



Installation in a 0U space configuration

HORIZONTAL CABLE MANAGEMENT

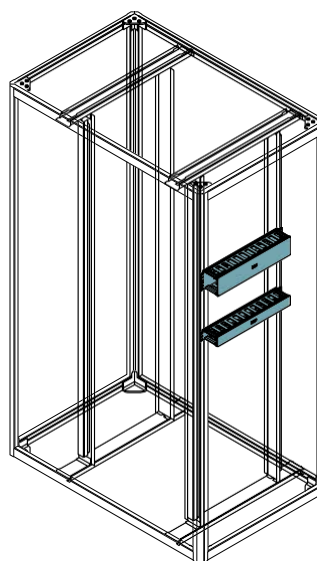
- Horizontal management systems make it possible to organize the passage of cables on the façade that come out directly
- of the ports of the equipment. They are available in different versions:
 - Basic with guide rings
 - Standard with horizontal organizer and hood
 - Advanced with fingers



• Basic



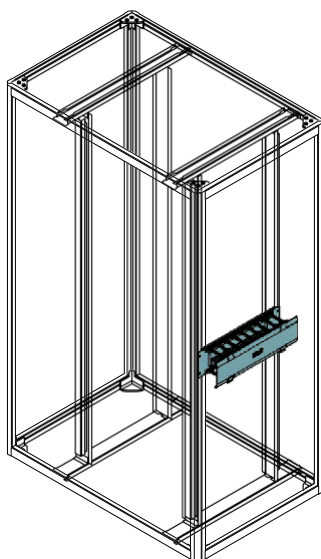
Horizontal cable manager



• Standard



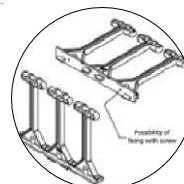
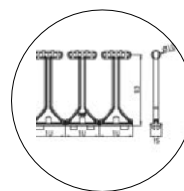
Horizontal cable manager with cover



• Advanced

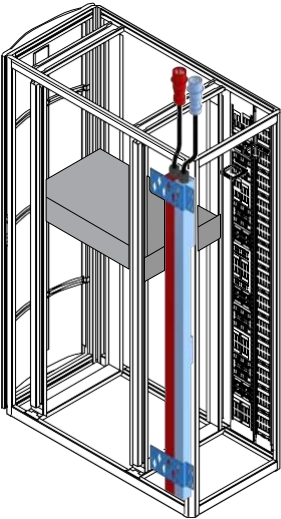


Horizontal cable manager with metal cover

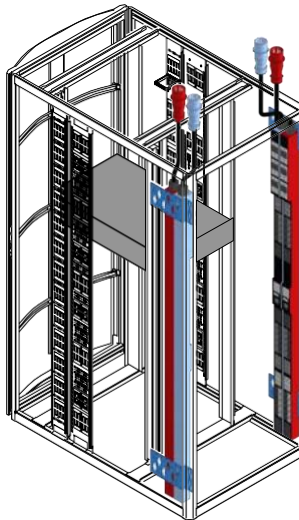
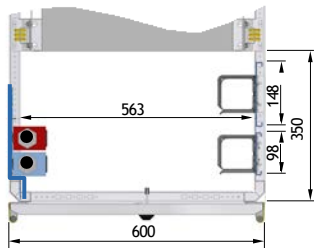


PDU BRACKET SYSTEM

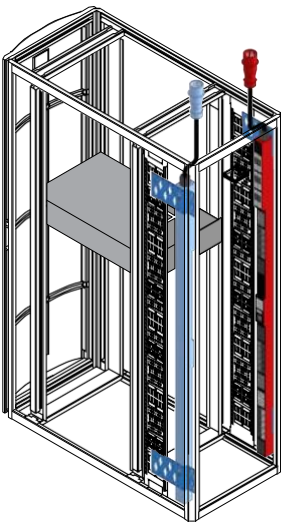
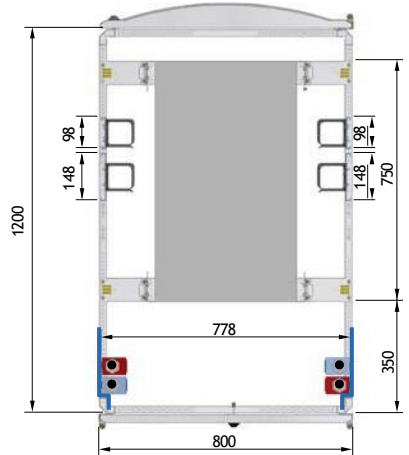
- Vertical PDU mounting systems allow for different configurations to optimize the space on the back side of the racks. The objective is to be able to implement PDUs, and to keep accessories to manage the power cables of the PDUs as well as the datacom cables.



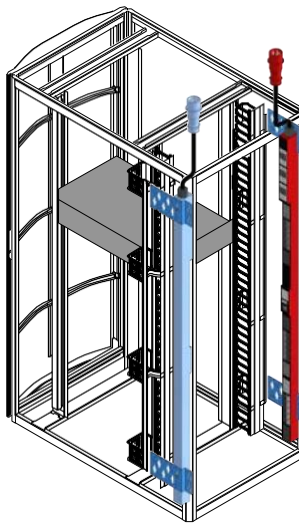
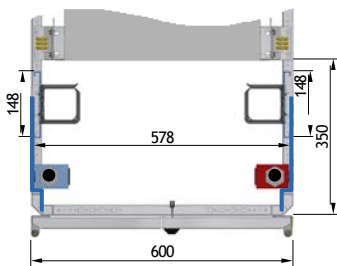
A Depth 1200 mm - Width 600 mm. 2 PDUs are installed side by side in 0U space



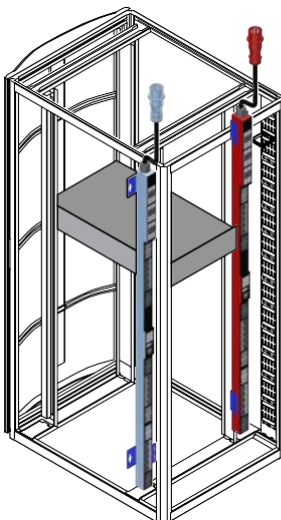
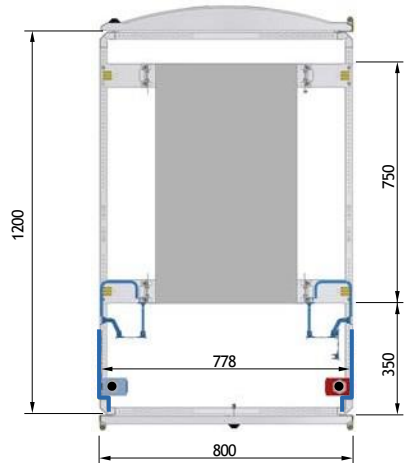
C Depth 1200 mm - Width 600 mm. 4 PDUs are installed face to face in space 0U.



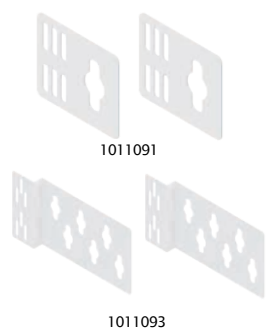
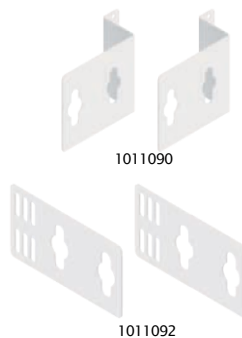
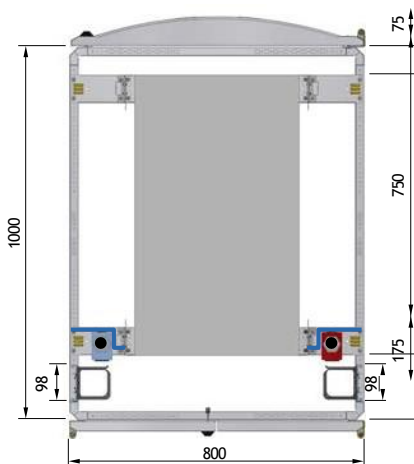
B Depth 1200 mm - Width 600 mm. 2 PDUs are installed opposite each other in 0U space. The fastening system of the PDU also allows you to set a cable ladder



D Depth 1200 mm - Width 800 mm. 2 PDUs are installed opposite each other in 0U space. Vertical cable management systems can be installed in 0U space on 19" uprights



E Depth 1000 mm - Width 800 mm. 2 PDUs are installed on the rear side on the 19" uprights, leaving space to implement accessories of vertical cable management in 0U space.



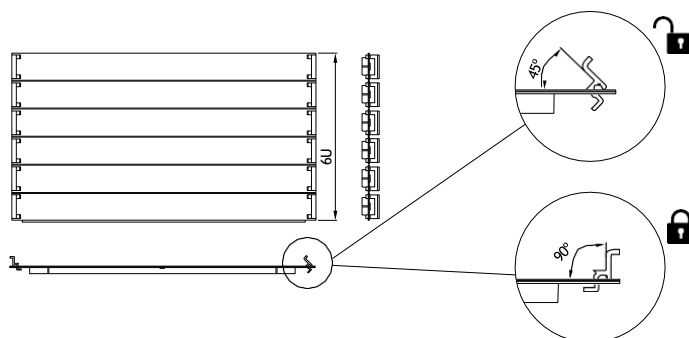
AIR DAM KIT



- Essential to ensure the effectiveness of hot or cold air containment systems.
- The frames are individually installed per compartment on each side of the front or rear in 0U space to allow adjustment over the entire range of the 19" uprights.
- Equipped with covers that can be removed to allow installation of accessories to manage the cables.

BLANKING PANELS

- Blanking panels also help ensure the effectiveness of hot or cold air containment systems when spaces are free in racks.
- In 6U blocks, they can be separated without tools on site and are locked when installed.
- Made of LSZH material and available in 2 colors (white and black).



ACCESS CONTROL

- The handles can be equipped with a multitude of solutions to ensure access control:
- Mechanical lock with access code and key
- Electric lock with :
- Electronic keypad
- RFID card reader
- Remote Control
- Telenco collaborates with different manufacturers specializing in access systems in order to provide specific access solutions for each project.

BRAND	 CarD Reader	 Keypad	 Iris	 Palm Vein	 Face Recognition	 Finger Print	Access Management Software
ASSA-ABLOY Sweden	●						●
DIRAK Germany	●	●					●
EMKA Germany	●	●					●
FATH Germany	●	●		●			
ONES Turkiye	●	○	○	●	●	○	●
SOUTHCO USA	●			●			
YEEKA China	●	●					
MESAN ESSENTA Turkey / UK	●	●					●

● Original hardware and original software

○ 3rd party hardware and own software