**FREE STANDING CABINET TECHNICAL SPECIFICATION**

1. **GENERAL CONDITIONS**

19” free standing rack cabinet must have ISO 9001: 2008 quality management system certificate and TSE certificate including the standards of EN 61587-1, IEC 60917, IEC 60297. Brand of the product, commercial title, height, width and depth information must be placed on the TSE document. Must have Zone 4 seismic certification.

1. **DIMENSIONS**

Complies with IEC 60297 standard. Must be (42U/47U) height, (600 mm. and 800 mm.) width and (1000 mm., 1100 mm and 1200 mm.) depth.

1. **LOAD CARRYING CAPACITY**

Must be 1500 kg.

1. **MAIN PROFILE STRUCTURE**

The main profile structure must consist of two separate, multi-layer, closed, nested and 90° bended profiles.

1. **FRONT AND REAR FRAMES**

There must be a profiled structure welded to the front and rear frame. The top closure must be fixed with screws to this profile structure.

The bottom part must be fully open for wide cable bundles.

1. **FRONT AND REAR COVERS**

The front doors must have single opening, monoblock, welded, curved, 80% perforated structure as standard. The complementary lock must be from 3 point locking mechanism. It must have different options (IP55 complete glass metal frame, %80 double opening perforation, single opening complete metal). The front door must be able to open up to 180° when the cabinet is alone, up to 130° on the adjacent plane.

In the standard configuration, the rear door must have double opening, monoblock, welded, 80% perforated structure. The complementary lock must be from 3 point locking mechanism. It must have different options (IP55 complete glass metal frame, 80% single opening perforation). The rear door must be able to open up to 180° when the cabinet is alone, up to 130° on the adjacent plane.

1. **SIDE COVERS/PANELS**

The side panels consist of two parts in the standard configuration, upper and lower. Each panel must be locked with “O” type locking mechanism. The panel in the IP55 configuration must consist of one piece and must be fastened with screws.

1. **BAYING KITS**

It must be joined with a flat plate over the hat.

1. **CABLE ENTRIES**

If the bottom part is desired to be closed, there must be the option of "bottom part closure panel" with rubber edge cable entry. The edge of the cable entry panel is covered with rubber and its movable structure makes it possible to place and secure the cables in the cabinet without damaging them. As a second option, it must be covered with plate closure panels.

1. **19” UPRIGHTS AND SIDE ARMS**

The 19" (in.) device mounting bracket (2 in front and 2 in rear) can be adjusted along the depth and must be a part of the cabinet interior configuration. Must be “L” shape bended, monoblock welded and adjustable along the depth.

1. **HINGES**

Must be 3 pieces zinc alloy steel and easy to dismount.

1. **COLOR**

It must be black(RAL 9005) or light grey(RAL 7035) as standard.

1. **DOCUMENTARY MATERIALS USED IN CABINET MANUFACTURING**

Sheet steel : DIN EN 10130 – 99 Ereğli DC-01 6112, 7122, RoHS

Electrostatic powder coating : ISO 9001, ISO 2178, ISO 2813, I SO 6272, ISO 8130-5, ISO 8130-3, RoHS

Fan : ISO 9001, CE (89/336/EEC EMC, 73/23/EEC LVD), RoHS

Glass : ISO 9001, EN 12150 – 1: 2000 tempered and secure

Fixings: DIN 7985, DIN 965, DIN 7981, DIN 934, DIN 985, DIN 933, RoHS

Casters: TS EN 12530, TS EN 12532, RoHS

Lock: DIN 1743, DIN 53571, RoHS

1. **TESTS AND CERTIFICATES**

Environment: EN61587-1 / 4.2, IEC60068-2-1, IEC60068-2-2, IEC60068-2-30, IEC60917 and IEC60297

Industrial Environment: EN61587-1 / 4.3, IEC60068-2-42, IEC60068-2-43, IEC60068-2-49, IEC60068-2-1,

IEC60917 and IEC60297

Statical mechanical structure load test: EN61587-1 / 5.2.1, IEC60917 and IEC60297

Statical mechanical structure stability: EN61587-1 / 5.2.2, IEC60917 and IEC60297

Dynamic load, vibration and mechanical stroke: EN61587-1 / 5.3.1, EN61587- / 5.3.3, IEC60917, C60297,

IEC62208

Grounding continuity: EN61587-1 / 6.2, IEC60917, IEC60297 and IEC 61010-1

Fire and flame resistance: EN61587-1 / 6.3, IEC60917 and IEC60297

Corrosion: ISO9227 and ASTM B 117-85, IEC60917 and IEC60297

IP protection degree: EN61587-1 / 6.4, IEC60529, IEC60917 and IP20 according to IEC60297

Load capacity: 1500 kg. static load. Passed earthquake test with 1000 kg. ( BELLCORE GR-63-CORE

ZONE4, NEBS requirements)

1. **ACCESSORIES**

Fan System: The setting range must be between 0-35 ºC with digital, analog or ON/OFF switch with 4 or 6 pieces fan controlled thermostat units. It must be suitable for installation inside the cabinet with electric cable and internal wiring. Every fan at 50 Hz max. must have a noise level of 38 dB and 53 CFM airflow. It must have a CE certificate.

Vertical cable organizer: It must have a large internal volume that can protect all kind of electric and data cables and patch cords. Along 19 "uprights, the organizer must be attached to the sides and have cable entry holes.

Vertical cable tray: The galvanized coating must be perforated to provide length and cable installation along the height of the cabinet.

Caster and/or leveling feet: The wheels must be movable in every direction and the front wheels must have a lockable structure. The load carrying capacity of each wheel and each leveling feet must be 250 kg. The casters and leveling feet can be usable at the same time.

Fixed and sliding shelf: Must be able to mount from 4 points (2 in front and 2 in rear). The load carrying capacity of fixed shelves are 50 kg. and 25 kg. for sliding shelves.

Lighting fixture: 19”, 1U, with ON/OFF switch, 220 Vac, automatic door with ON/OFF switch or LED with sensor.

Grounding continuity: In cabinet grounding continuity must comply with IEC 61010-1 standard. All metal components in the cabinet must be electrically connected with each other by 1 x 4 mm² grounding cables and grounding resistance between superficial components must be max. 0,1 ohm. For all doors, these grounding cable connections must be made with bolts and nuts. Grounding continuity between the 19" movable mounting profiles and the main body must be provided with the galvanised surfaces that is connected with screws each other.

Floor fixing kit: The floor fixing kit must be designed not to extend beyond the bottom area of ​​the cabinet. The cabinet must be fixed to the floor over the front / rear, right / left surface according to the needs of the area. The connection element shall consist of one part for each surface and the cabinet shall be fixed to the floor by connecting from two points. The floor fixing kit must be positioned between the cabinet and the floor. It must be independent of the support consoles of the raised floor. The structure must be steel construction and be made of galvanized sheet with min. 3 mm. of thickness. Height adjustable floor fixing kit must be used between 300 mm - 700 mm according to raised floor clearance. The bottom construction must be able to be connected to the floor and the top console pieces that are under the cabinet must be able to be connected to the raised floor. The cabinet must have fixing brackets for the earthquake and they must be mounted 2 from the front and 2 from the rear.