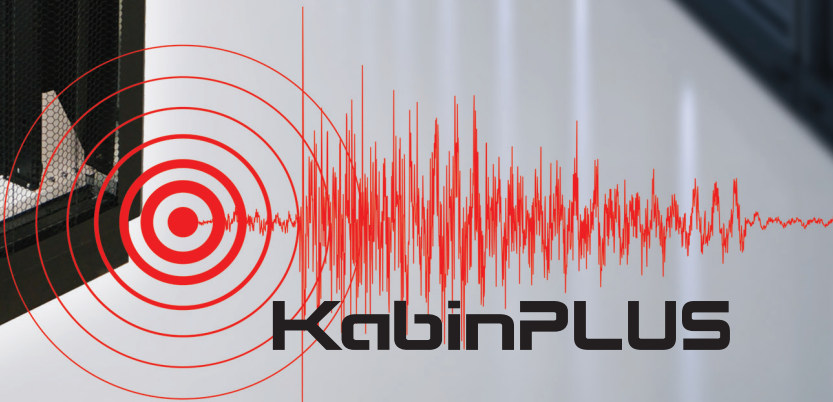
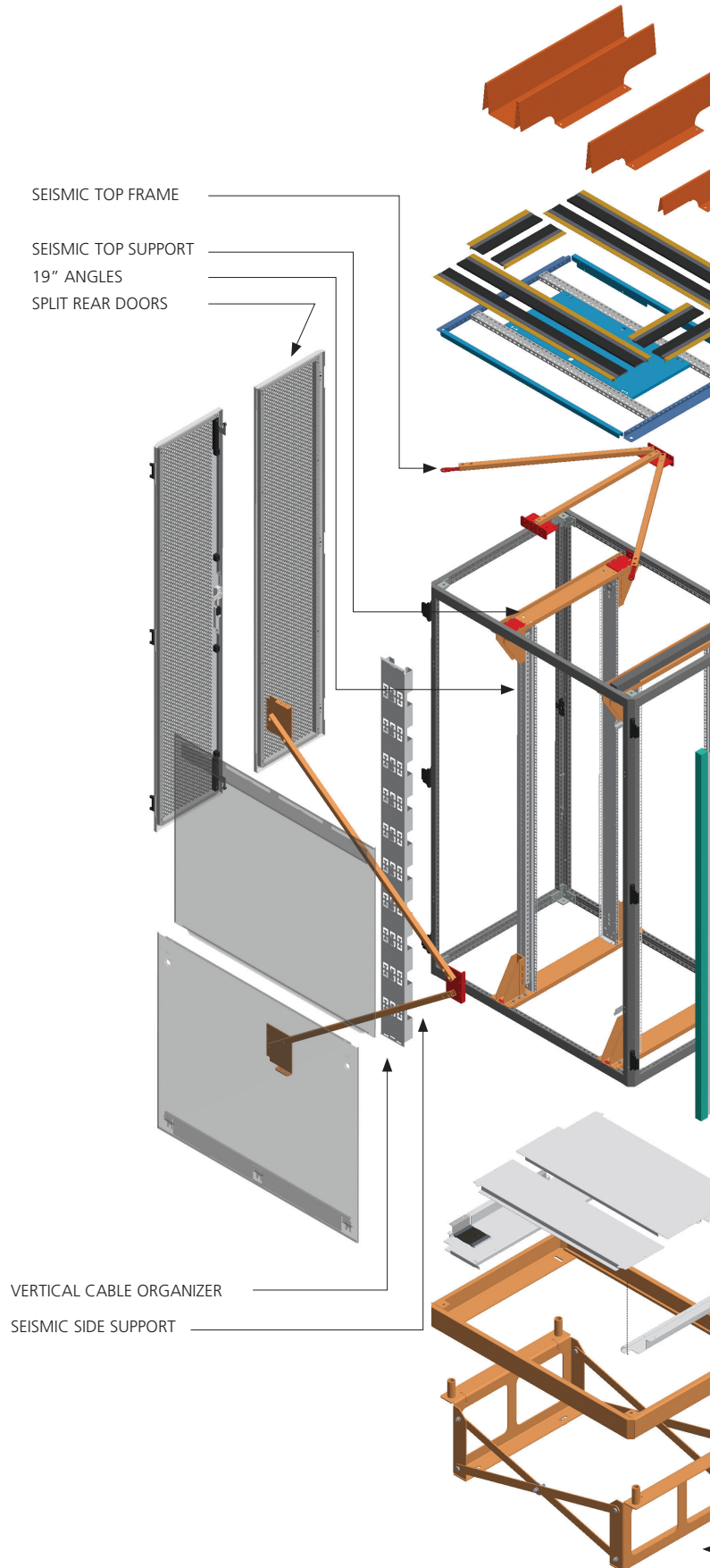


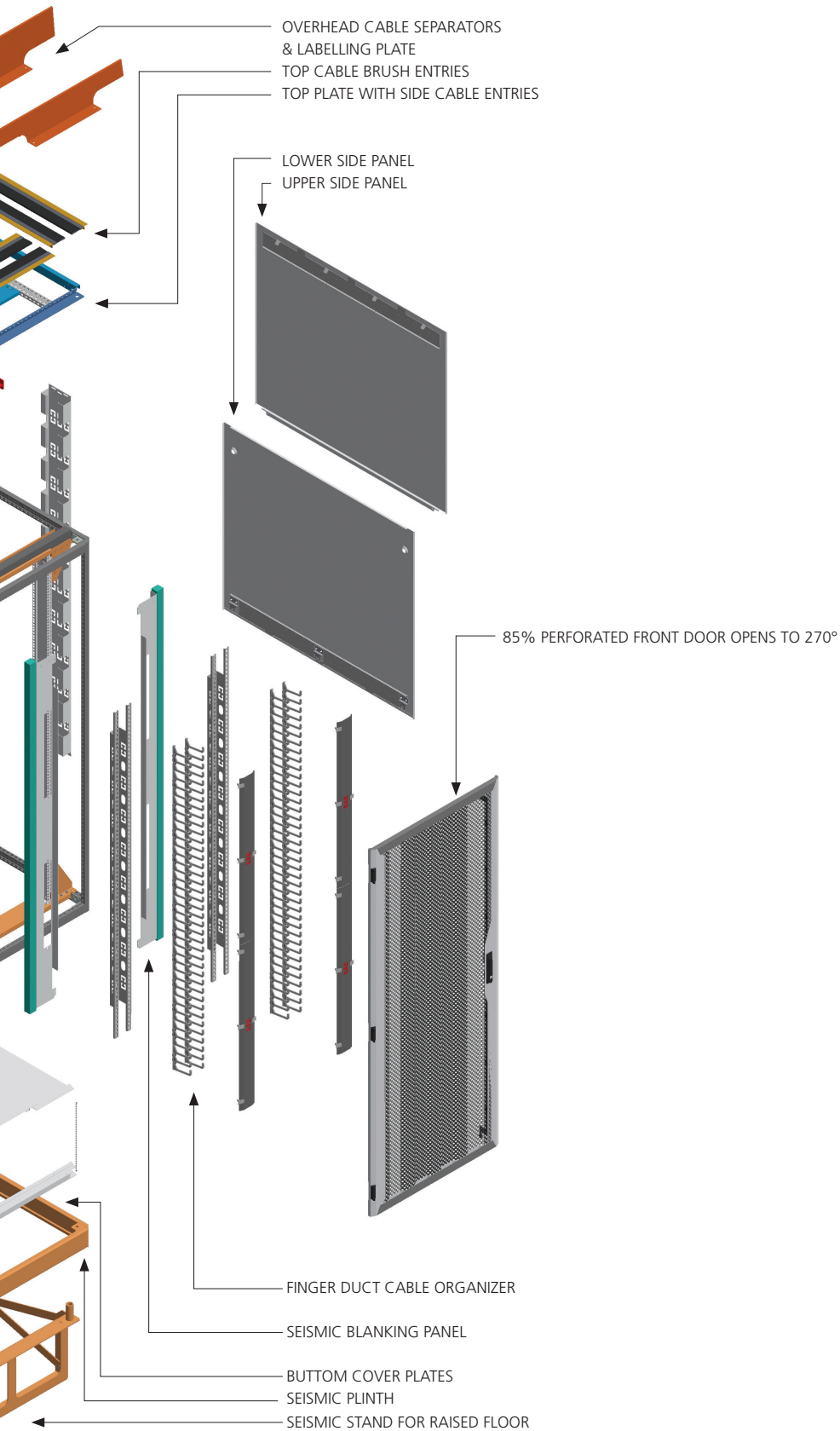
KS Series Enclosures



General Features

KabinPLUS KS 19" Data Center Seismic Rack Cabinets have been designed to offer high flexibility and efficiency with a robust and anti-seismic core construction for data centers to handle Zone 4 earthquake environments.





General Features

Enclosure Dimensions :

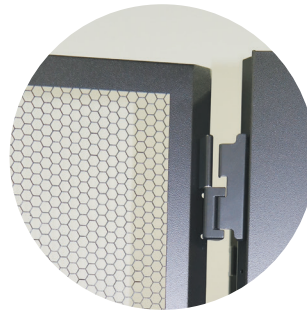
Heights (in Rack Unit) - 42U, 47U

Widths - 600 mm. , 800 mm.

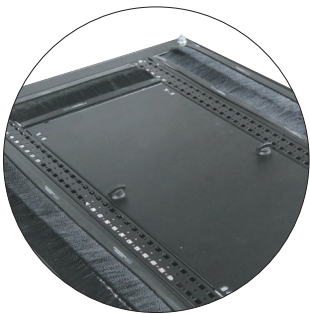
Depths - 1000 mm. , 1100 mm. , 1200 mm.

* For different dimensions please contact your customer representative.

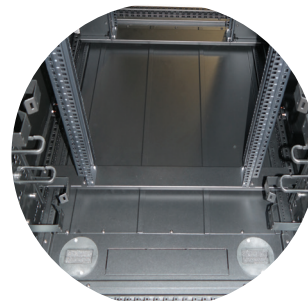
Doors : single front and split rear doors toolless displaceable
- ventilated by 85% perforation, opens to 180/270 degrees
when bayed/not bayed



Side Panels : split panels – vertical or horizontal, lockable



Top and Bottom Panels : large and multiple
cable entry slots with brushes on the roof,
adjustable bottom cover plates and particular
PDU cable grommets





Conformity to Telcordia GR-63-Core, NEBS (Zone 4) standard thanks to its supporting frames and particular construction design



Levelling Feet & Castor Module: heavy duty easy drive levelling feet with castors



Electrical Bonding : full electrical bonding of the rack cabinet, doors-side & roof & bottom panels with the reference bonding point

Locking Mechanisms : various lock choices with open access connectivity



Conformity : IEC 61587-1, UL 2416, IEC 60082-2, EIA 310-E, ISO 9227, ASTM B 117 for mechanical properties IEC 61010-1, IEC 60950-1 for electrical properties and Telcordia GR-63-Core, NEBS (Zone 4) for seismic certification

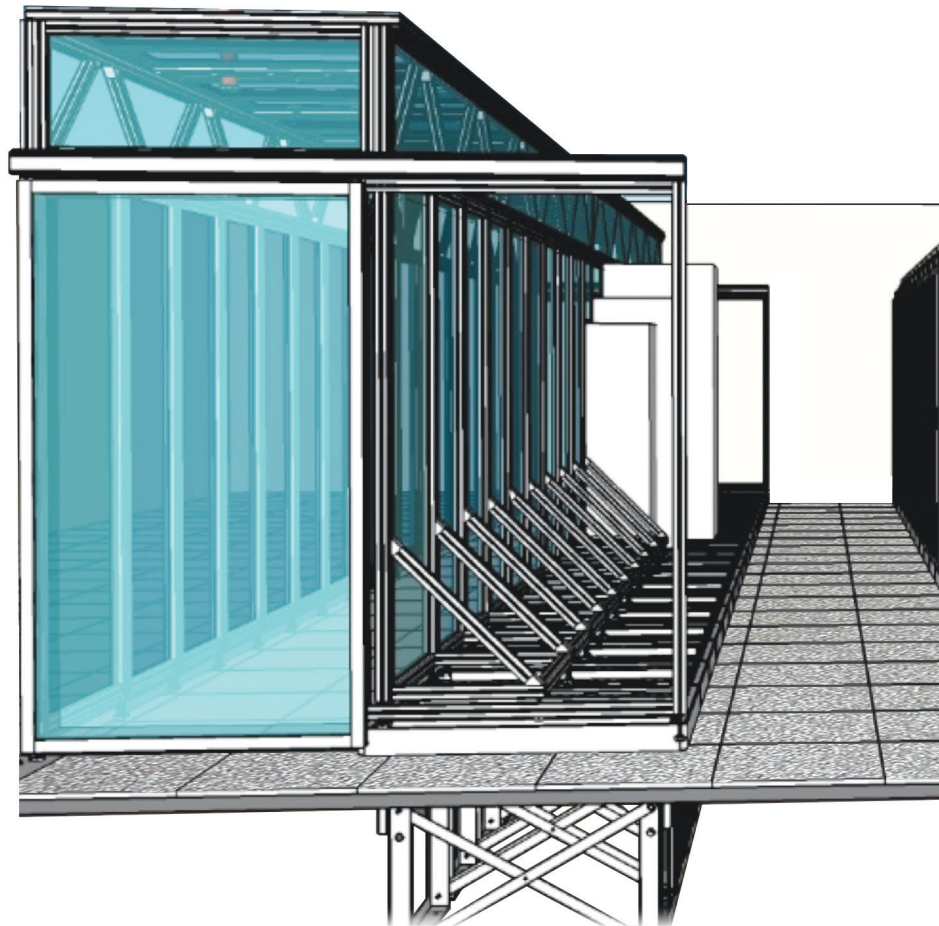
Load Carrying Capacity : 1200 kg static load (according to IEC 61587-1)
1500 kg static load (tested for UL 2416)
1500 kg dynamic load (tested for UL 1678)

Packing : Assembled or Flatpack

Cabling Features and Floor Fixing Solutions

KabinPLUS KS 19" Data Center Seismic Rack Cabinets provide a comprehensive approach for the cabling accessories to serve high density structured cabling infrastructure with a lot of Moves, Adds and Changes in data center environments. Another value added solution is the professional floor fixing with or without the raised floor. Applying the "seismic stand" ensures a solid fixing of the rack cabinets to the floor as well as creating a platform to accommodate non-standard rack enclosures.

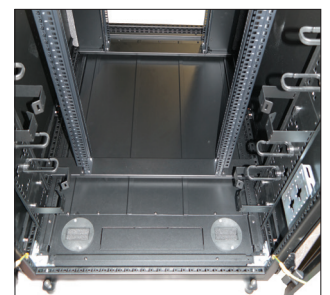
Overhead (Roof) Cable Management: toolless mounting of "M" shaped and "A" shaped separators & cable pathways



PDU Brackets: Enabling to mount various types of PDUs on a toolless and/or conventional way



Bottom Panel : KD Server with 3 x adjustable & displaceable bottom panels and 2 x PDU cable grommets; KD Network with 4 x adjustable & displaceable bottom panels with 2 x PDU cable grommets

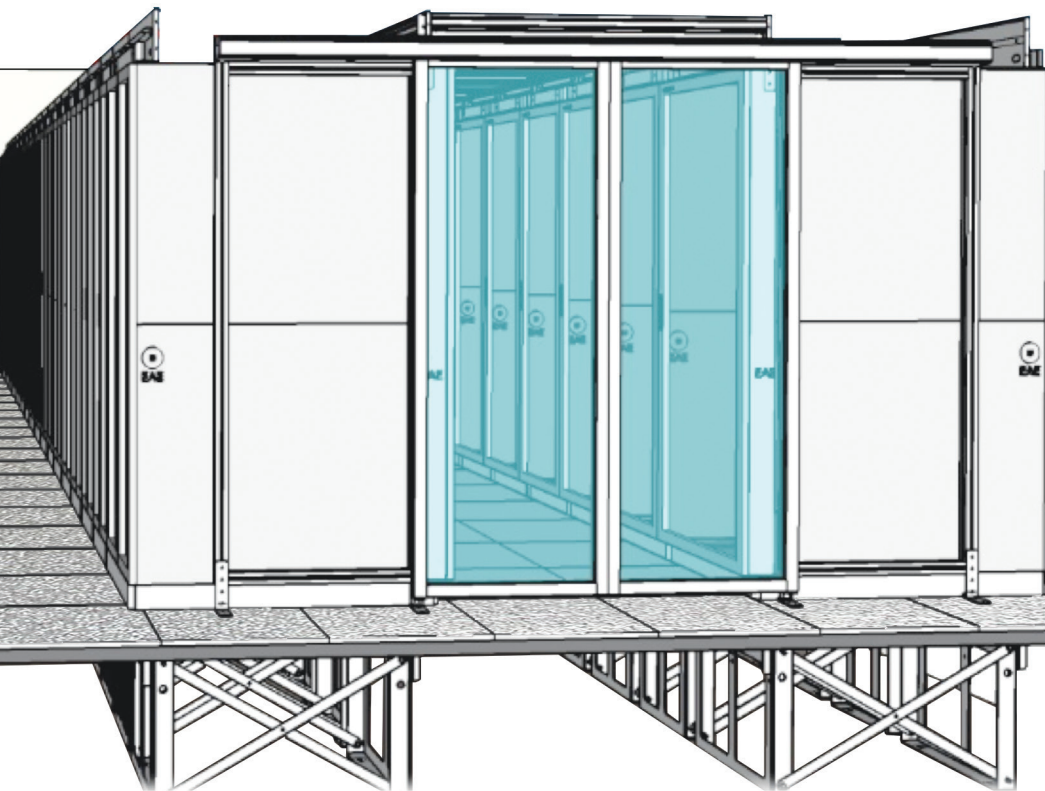




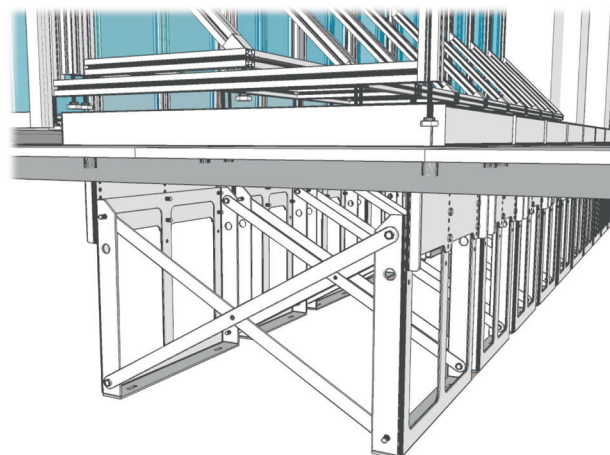
Horizontal Cable Management : metal and plastic cable organizer in different rack units, plastic finger cable troughs



Vertical Cable Management : plastic finger cable organizer, plastic ring cable organizer, metal ring cable organizer, finger cable duct organizer, vertical cable tray

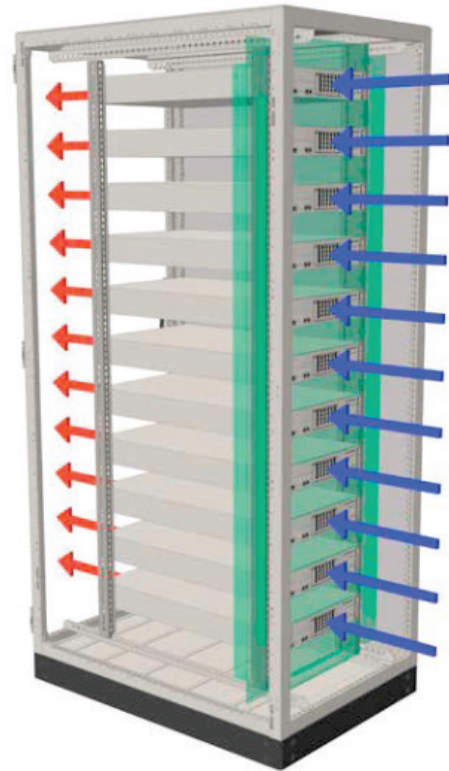


Seismic Stand : Designed with heavy duty and robust construction, the seismic stands offer a professional fixing installation of the rack cabinets and also for non-standard enclosures to the floor independent from the raised floor application. The advanced adaptation capability on the raised floor surfaces with specially designed plinths and height adjustment feature eliminates uneven surface flaws and creates a unique platform to accommodate any type of enclosures.



Airflow Management

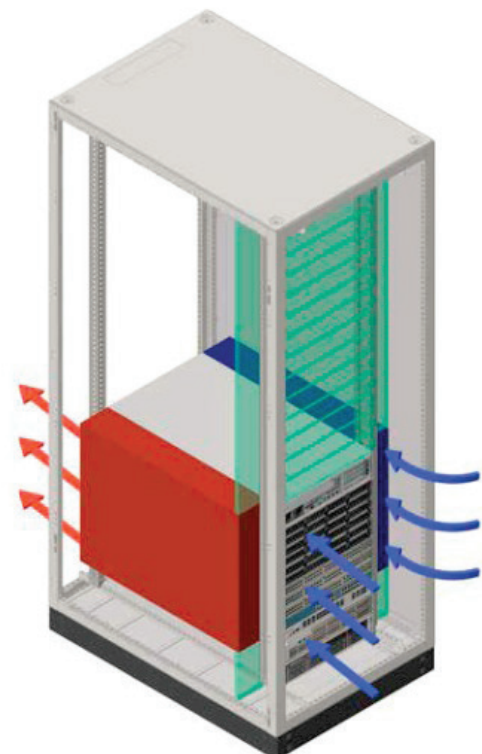
To ensure the energy efficiency in data centers, KabinPLUS KD 19" Data Center Rack Cabinets offer a holistic solution to secure the complete separation of the cold cooling air and hot exhaust air in a rack cabinet environment by means of various air blocking and air ducting panels. By utilizing vertical and horizontal air blocking panels, as well as top and bottom cover sealings and rack floor grommets, all the possible airflow short circuits can be isolated.



Vertical Air Blocking Panels

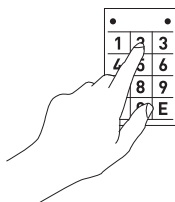
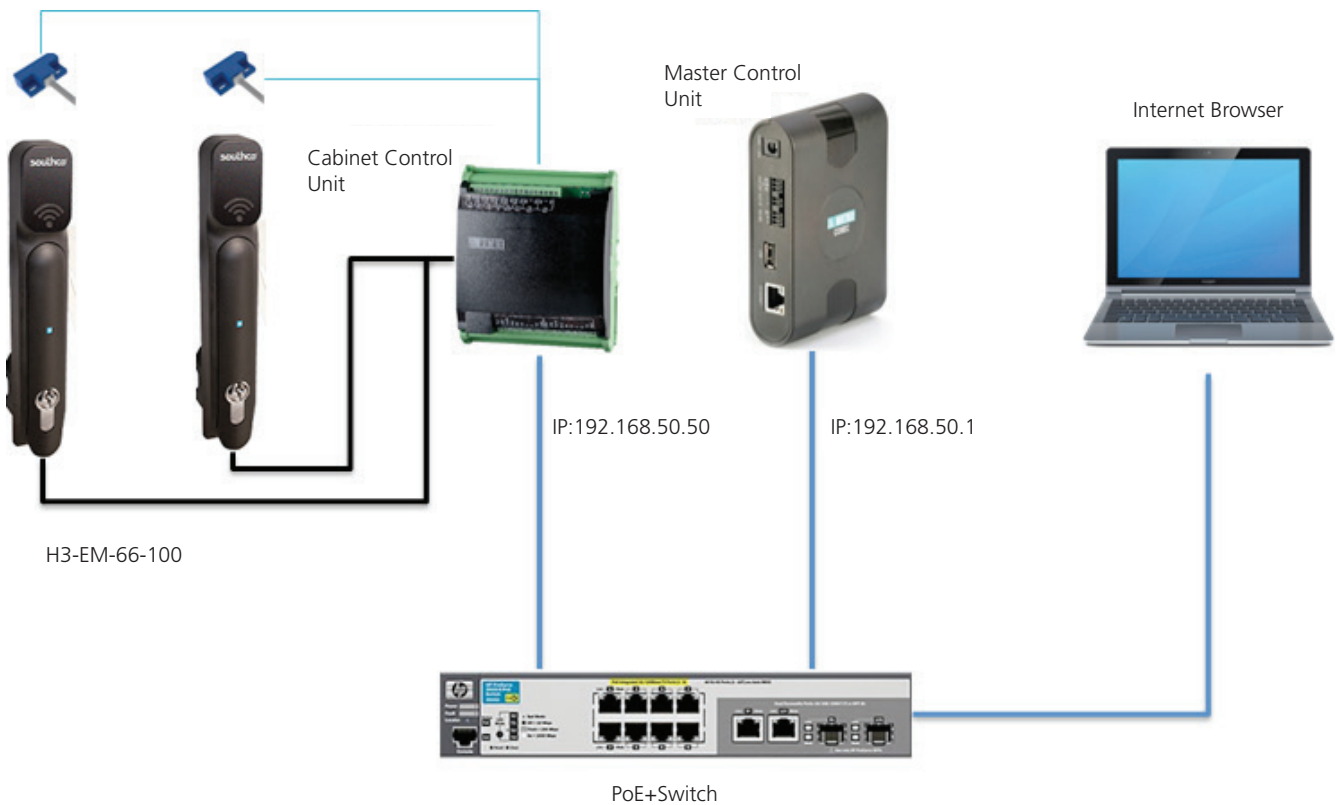


**Horizontal Air Blocking Panel
1U 6U, Toolless**

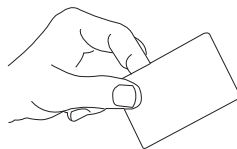


Electronic Locking Mechanisms

For the physical security and monitored access to your critical infrastructure KabinPLUS KS 19" Data Center Rack Cabinets offer various locking mechanism and open access connectivity. Mechanical and electro-mechanical locking, keypad access, proximity card access, finger print, eye retina or hand geometry biometric access and their combinations are among the available choices.



key pad



proximity



finger print



eye retina

Accessories

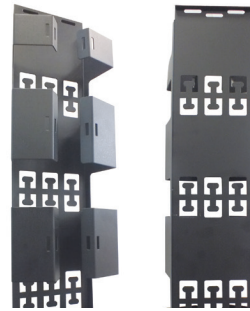
Cable Management



Cable Finger Organizer



Vertical Finger Duct
Cable Organizer



Vertical Cable Trays



Cable Organizers & Troughs

Cable Management

PDU Brackets

Air Blocking Panels



Overhead Cable Management



PDU Brackets



Vertical Air Blocking Panels



Horizontal Air Blocking Panels
1U 6U, Toolless

Shelves & L-Support Rails



Rack Mount Shelf
(2 points fixing)



Fixed Shelf
(4 points fixing)



Sliding Shelf
(4 points fixing)



L-Support Rails

Levelling Feet & Castor Sets & Baying Kit



Levelling Feet & Castor Module



Levelling Feet for Cabinets
(1 set = 4 pcs)

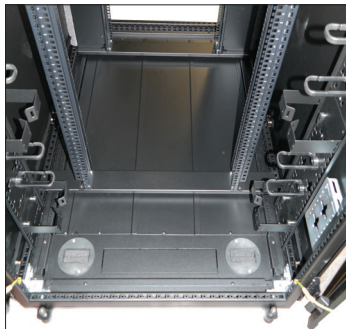


Castor Set for Cabinets
(1 set = 4 pcs, 2 with brakes)



Baying Kit for Cabinets

Cabinet Bottom Cover Plates



Bottom Cover Plates

Brush Kits



Brush Kits for KD Server & Network Rack Cabinets

Seismic Stand



Seismic Stand for raised floor

Grounding Kits & Potential Equalizer Bar



Grounding Kit for Server & Network Cabinets



Potential Equalizer Bar

KabinPLUS Data Center Rack Cabinets - KS SEISMIC SERVER



| | |
|-----------------------|---|
| Description | : Free Standing 19" Seismic Cabinet for Data Center Environments as single unit or as row formation unit |
| Dimensions | : 42/47 Rack Units ; 600 x 1000 / 1100 / 1200 (width x depth in mm) |
| Construction | : Sheet Steel, Extra Welded/Bolted frame |
| Color | : RAL 7035 Gray or RAL 9005 Black |
| Loading | : 1200 kg (static) - certified according to EN 61587-1 1500 kg static (UL 2416), 1500 kg dynamic (UL 1678) |
| Protection | : IP 20 |
| Profiles | : 4 pcs. easily adjustable with double side U marking, with seismic side and top supports, (1,5mm + 2,5mm) steel thickness. |
| Features | : <ul style="list-style-type: none">• doors ; single front and split rear doors, easily detachable, all with 85% perforation rate; doors opens to 180/270 degree when bayed/not bayed• locks ; mechanical, electrical and biometric locking mechanisms, detachable split side panels with key lock• cable management ; multiple brush cable entries on top corners and sides, tool-less overhead cable management by "M" or "A" shaped separators for data and power cables, multiple cover plates for bottom cable entries, vertical plastic finger ducts, vertical metallic cable tray, horizontal cable organizers, PDU brackets.• fixing ; for normal or raised floor and/or with seismic plinth options, also easily baying• grounding ; all internal parts and the frame with a main ground lug |
| Certifications | : <ul style="list-style-type: none">• mechanical; IEC 61587-1, UL 2416, IEC 60068-2, EIA 310-E, ISO 9227, ASTM B 117• electrical; IEC 61010-1, IEC 60950-1• seismic: Telcordia GR-63-Core, NEBS (Zone 4), EN60068-3-:1991 |
| Packaging | : Assembled or Flat Pack |

KabinPLUS Data Center Rack Cabinets - KS SEISMIC NETWORK



| | |
|-----------------------|--|
| Description | : Free Standing 19" Seismic Cabinet for Data Center Environments as single unit or as row formation unit |
| Dimensions | : 42/47 Rack Units ; 800 x 1000 / 1100 / 1200 (width x depth in mm) |
| Construction | : Sheet Steel, Extra Welded/Bolted frame |
| Color | : RAL 7035 Gray or RAL 9005 Black |
| Loading | : 1200 kg (static) - certified according to EN 61587-1 1500 kg static (UL 2416), 1500 kg dynamic (UL 1678) |
| Protection | : IP 20 |
| Profiles | : 4 pcs. easily adjustable with double side U marking, with seismic side and top supports, (1,5mm + 2,5mm) steel thickness. |
| Features | : <ul style="list-style-type: none">• doors ; single front and split rear doors, easily detachable, all with 85% perforation rate; doors opens to 180/270 degree when bayed/not bayed• locks ; mechanical, electrical and biometric locking mechanisms, detachable split side panels with key lock• cable management ; multiple brush cable entries on top corners and sides, tool-less overhead cable management by "M" or "A" shaped separators for data and power cables, multiple cover plates for bottom cable entries, vertical plastic finger cable duct organizer, vertical metallic cable tray, horizontal cable organizers, PDU brackets.• fixing ; for normal or raised floor and/or with seismic plinth options, also easily baying• grounding ; all internal parts and the frame with a main ground lug |
| Certifications | : <ul style="list-style-type: none">• mechanical; IEC 61587-1, UL 2416, IEC 60068-2, EIA 310-E, ISO 9227, ASTM B 117• electrical; IEC 61010-1, IEC 60950-1• seismic: Telcordia GR-63-Core, NEBS (Zone 4), EN60068-3-:1991 |
| Packaging | : Assembled or Flat Pack |



VIRLAB, S.A.
Division of URBAR INGENIEROS, S.A.
Vibration Test Laboratory

SEISMIC Qualification Certificate

Delivered on: Friday, 19 February 2016

References:

- **VIRLAB** test procedure number **160105E1**, issue 0, dated 05/01/2016: "SEISMIC QUALIFICATION OF IT-RACKS AND CABINETS, ACCORDING TO TELCORDIA GR-63-CORE NEBS (ZONE 4), ALSO FOLLOWING INTERNATIONAL STANDARD EN60068-3-3:1991".
- **TELCORDIA GR-63-CORE, NEBS (ZONE 4)** / 5.4.1 Earthquake test methods, *Earthquake Test Methods*, of TELCORDIA TECHNOLOGIES GENERIC REQUIREMENTS, "GR-63-CORE".
- International standard **IEC 60068-3-3:1991**: *Environmental testing – Part 3: Guidance. Seismic tests methods for equipments*.
- International standard **IEC 60068-2-6:2007**: *Environmental testing – Part 2: Tests – Fc: Vibration (sinusoidal)*.
- International standard **IEC 60068-2-47: 2005**: "Environmental testing - Part 2-47: Tests. Mounting of specimens for vibration, impact and similar dynamic tests".
- International standard **IEC 60068-2-57:2000 et 2013**: "Environmental testing - Part 2-57: Tests - Test Ff: Vibration – Time-history and sine-beat method".
- **EN 61587-1/7.3.3** and **EN 61587-2 (2011)**: "Mechanical structures for electronic equipment - Tests for IEC 60917 and 60297 - Part 2: Seismic tests for cabinets and racks".

Laboratory Name: VIRLAB, S.A. (accredited by ENAC, Spanish National Accreditation Entity).
ENAC certificate number 54/LE131.

Laboratory Address: Polígono Industrial de Asteasu, Zona B - 44
Apartado 247
20159 ASTEAU (SPAIN)

Equipment tested: *Assembly of three IT cabinets (simulating an aisle-group)* has been tested according to "TELCORDIA GR-63-CORE, NEBS (ZONE 4)", manufactured by EAE Elektrotechnik A.S.

- 1 pc KabinPlus S 800: dimensions 800x1200x1974 mm, with 600 kg in the trays and 25 kg on top (simulating cables),

Certificate number "162354C"

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VIRLAB, S.A.
Division of URBAR INGENIEROS, S.A.
Vibration Test Laboratory

- 2 pcs KabinPlus S 600: dimensions 600x1200x1974 mm, with 600 kg in the trays and 25 kg on top (simulating cables),

The three *Cabinets* are fixed to a concrete block 2500x1500x250 mm and this block is fixed to the test platform, simulating their fixing system in the Plant as it stated in **TELCORDIA GR-63-CORE**, as we can see on the following photograph:



VIRLAB, S.A., certifies that the *Cabinets* described here above have been tested in its laboratory of ASTEASU (Spain) between 1st and 2nd February 2016, as describe in test procedure number **160105E1**, Issue 0, of VIRLAB, according to "TELCORDIA GR-63-CORE NEBS ZONE 4", also following INTERNATIONAL STANDARD IEC 60068-3-3.

The *Cabinets* have been submitted to the tests described here below:

- **Resonance search tests**, between 1 and 50 Hz, with an acceleration level of 0.2 g, independently performed in each one of the three main directions of the *Cabinet*, *front-to-back (X)*, *side-to-side (Y)* and *vertical (Z)*.
- **Seismic, biaxial, tests**, consisting of one (1) S2 level test, in both "YZ" (*side-to-side and vertical*) and "XZ" (*front-to-back and vertical*) directions. The applicable Required Response Spectra, **RRS** (2% damping), considers a Zero Period Acceleration of **1.6 g** in horizontal direction (ZPA "GR-63-CORE", Zone 4) and 0.8g (1/2 x 1.6), in the vertical direction, as included here below:

These *Cabinets* have successfully passed the Seismic Tests, to which they have been subjected, maintaining their structural integrity, without any anomaly or structural deterioration having been detected.

In test report number **162354** of **VIRLAB, S.A.**, will be included all the information obtained, with tables, photographs, used measuring devices calibration certificates, and other relevant information.

Certificate number "162354C"

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ATTESTATION OF CONFORMITY

Issued to: EAE Elektroteknik San. Ve Tic. A.S.
İktisadi Organize Sanayi
Bölgesi Eski Turgut Özal
Caddesi No 20
34490 İktisadi - İstanbul
Turkey

For the product: IT Cabinets

Trade name: EAE

Type/Model: KabinPlus

Ratings: Classification SL6, K3 and IP20

Manufactured by: EAE Elektroteknik San. Ve Tic. A.S.
İktisadi Organize Sanayi
Bölgesi Eski Turgut Özal
Caddesi No 20
34490 İktisadi - İstanbul
Turkey

Subject: Mechanical tests and safety aspects

Requirements: IEC 61587-1: 2012, clauses 7.3.1, 7.3.2, 7.3.4, 9.2 and 9.4

Remarks: -

This Attestation of Conformity is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2191220.02-INC, 9 February, 2016.

The examination has been carried out on single samples of multiple configurations representative of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 9 February, 2016

Number: 2191220.02A

DEKRA Certification B.V.

H.R.M. Barends
Certification Manager

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NWIN.E489314 Audio/Video, Information and Communication Technology Equipment Cabinet, Enclosure and Rack Systems

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Audio/Video, Information and Communication Technology Equipment Cabinet, Enclosure and Rack Systems

[See General Information for Audio/Video, Information and Communication Technology Equipment Cabinet, Enclosure and Rack Systems](#)

EAE ELEKTROTEKNIK SAN VE TIC A S
IKITELLI ORGANIZE SANAYI BOLGESI ZIYA
GOKALP MH ESKI TURGUT OZAL CD NO 20
BASAKSEHIR
34490 ISTANBUL, BASAKSEHIR TURKEY

E489314

IT Cabinet Systems, "KD", Model(s) KabinPlus

Last Updated on 2017-11-13

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