

CEMENT CORE STINGER SYSTEM WITH TOP FINISH

AVAYO Cement Panels are fabricated with a top steel sheet welded to a formed steel bottom pan filled internally with a light weight cementitious which is totally encased within the steel welded shell. The top of the panel is a plane surface and the press formed structural cell domes in the bottom welded to the top plate. The design ensures proper distribution of load towards all sides of the panel.



Top View



Bottom View

The panels laid on a stringer based pedestal system. These panels construct with antistatic top finishes like high pressure lamination, vinyl finish or any custom choice finishes like carpet, ceramic, granite or similar.

TECHNICAL DETAILS:

Product Type	: Stringer based Cement core with Antistatic HPL/Vinyl finish
Manufacturer	: Avayo Electronics Canada Corporation
Standards	: CISCA, ASTM, NFPA, UL
Core Material	: Light Weight Cement
Panel Size	: 600x600 mm
Panel Thickness	: 35 mm
Panel Weight	: 14 kg
Construction	: Cement Filled in Steel Tray
Panel Finish	: Electro deposited epoxy paint
Top Finish	: Antistatic HPL /Vinyl or custom choose finish.
Edging of top finish	: PVC beading / Extended Top finish to the edge.
Fire rating Class	: Class 0
Heat Transfer	: 3 Hours
Combustion Properties	: Non Combustion
ESD- Control Properties	: $10^6 - 10^{10} \Omega$
Walking Sound Level	: 21db at 500 Hz
Seismic Performance	: Accordance with UBC-1997 for Zone 2A, Site D

MECHANICAL PROPERTIES:

Part No.	Conce ntrated Load	Design Load	Ultimat e Load	Uniform Load	Impact Load	Rolling Load @10 passes	Rolling Load @10,000 passes
AVR-CP6035-HPL/V(25)	2.5 KN	3.5 KN	7 KN	9 KN	670 N	2.5 KN	1.5 KN
AVR-CP6035-HPL/V(35)	3.5 KN	5.5 KN	11 KN	16 KN	670 N	3.5 KN	2.5 KN
AVR-HCP6035-HPL/V(45)	4.5 KN	6.5 KN	13.5 KN	23 KN	712 N	4.5 KN	3.5 KN
AVR-HCP6035-HPL/V(55)	5.5 KN	8 KN	16.5 KN	33 KN	712 N	5.5 KN	4.5 KN

- Deflection : 2.5mm Max.
- Safety factor : 2
- Test method : As per CISCA, ASTM, UL, NFPA Standards.

UNDER STRUCTURE:

PEDESTAL:-

Adjustable pedestals in pressed and galvanized steel with an adjustment field from 3 cm to 5 cm vertical adjustment. Rectangular base of pedestal with min. size 95mm x 95mm / 3mm thick with 4 strengthening ribs and 4 holes to permit mechanical fixing if required. The 75mm x 75mm square head pedestal has four holes to permit screw fixing the stringers to the head.



TECHNICAL DETAILS:

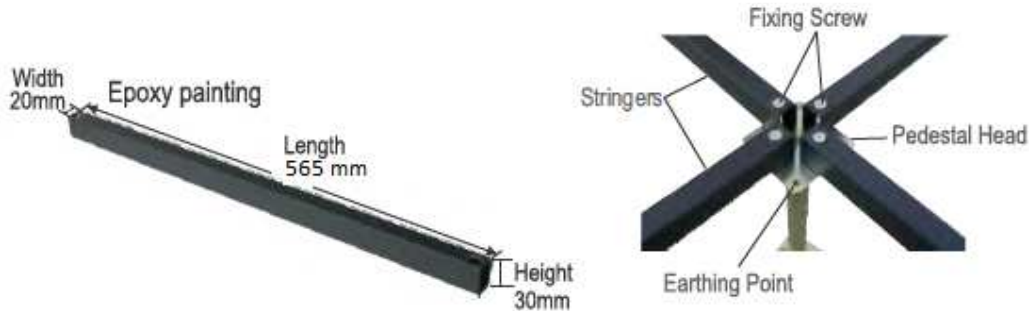
Pedestal material	: Galvanized Steel
Head of the Pedestal	: 75mm x 75mm Square Head allows stringers to fix to the head.
Base Construction (<800 mm FFH)	: 95mm x 95mm x 2.5mm or 100mm x 100mm x 3.0mm
Pedestal tube (<800 mm FFH)	: 25mm Diameter 1.5 mm / 2.0 mm thick welded to the base
Base Construction (>800 mm FFH)	: 125mm x 125mm x 2.5mm or 200mm x 200mm x 3.0mm
Pedestal tube (>800 mm FFH)	: 30mm Diameter 1.5 mm / 2.0 mm thick welded to the base
Construction Height	: 100 mm to 1500 mm
Vertical Adjustment	: 30mm / 50mm / 100mm with lock nut system

MECHANICAL PROPERTIES:

Part No.	Axial Load	Over turning Moment
AVR-CP6035-HPL/V(25)	22 KN	113 NM
AVR-CP6035-HPL/V(35)	22 KN	113 NM
AVR-HCP6035-HPL/V(45)	40 KN	113 NM
AVR-HCP6035-HPL/V(55)	40 KN	113 NM

STRINGERS:-

Stringer made of tube in powder coated steel with square section profile 20mm x 30mm x 1.0 mm and 565mm length fixed on the pedestal head allows panel edges to lay on 600mm x 600mm stringer based pedestal assembly.



TECHNICAL DETAILS:

Stringer material	: Powder Coated Steel
Dimension	: 20mm x 32mm x 565mm
Steel Thickness	: 1.0 to 1.5mm
Mode of Assembly	: Mechanically fixed by using screws to pedestal head
Extra Features	: Self Adhesive Gasket for Sound Proof

MECHANICAL PROPERTIES:

Part No.	Type	Concentrated Load
AVR-CP6035-HPL/V	Powder coated	1.5 kN

In Raised floor, we do have,

- Low profile & High profile trunking system for a finished floor height from 3.5cm to 20 cm.
- Wood core Panel with antistatic HPL/Vinyl finish
- Cementitious Panel with antistatic HPL/Vinyl finish
- Calcium Sulphate Panel with antistatic HPL/Vinyl finish
- Perforated steel tiles with antistatic HPL/Vinyl finish