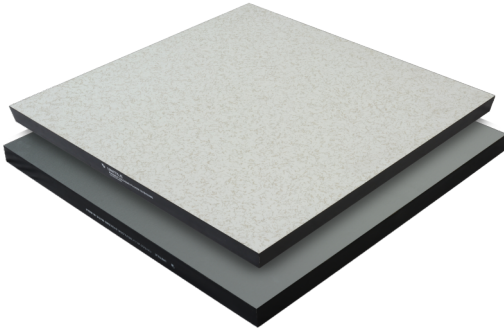


UNITILE UCB 32MM EDGE SUPPORT RIGID GRID (ESRG) SYSTEM

PANEL ILLUSTRATION



Category	ESRG System
Panel size	600 x 600 mm
Core Material	Chipboard
Panel Core Thickness	32 mm
Panel Weight	10.100 kgs
Weight of System	34kg/m ² for FFH 300mm (varies with height)
Overall Floor Height	150mm - 2000mm

FEATURE BENEFITS

- ▶ High strength to weight performance.
- ▶ Precision in floor levels and positive alignment with the understructure.
- ▶ Good acoustical properties.

PANEL CONSTRUCTION

The UCB floor panel of 32 mm nominal thickness consists of engineered 600 x 600 mm square modular panels constructed around a 32 mm high-density chipboard core strengthened with high-performance thermosetting resins.

The top & bottom surface of the core is fully bonded by anti-static HPL & GI sheet respectively & made to fine dimensional tolerances for modular control, accurate alignment of grids, inter-changeability of panels and prevention of creep. The design incorporates a full depth PVC edge band, which while providing total encapsulation of the chipboard core, also protects the edge of the surface covering and resists ingress of moisture.

SYSTEM DESCRIPTION

PANEL:

Unitile Chipboard access floor panels are engineered to fine dimensional tolerances for modular control, accurate alignment of grids and inter-changeability of panels and for prevention of creep.

A full depth PVC edge band provides total encapsulation of chipboard and protects the edge of surface covering to prevent ingress of moisture.

The panels are designed with pre-engineered cavity on all four corners to inter-lock with the pins on the PVC cap that leads to positive engagement between the pedestal and access floor panel. The factory-engineered Inter-locking design of the panel and the PVC cap enables positive alignment of the floor without any efforts during the installation and frequent access during service.

PEDESTAL:

The pedestal assembly shall provide easy adjustment of leveling and accurately align panels for a maximum ± 25 mm in the vertical direction. The Pedestal head assembly shall consist of embossed head mechanically riveted to a rolled formed stud and 2 check nuts for level adjustment and arresting vertical movement. The pedestal head shall consist of an anti-vibration conductive cap with inbuilt isolating spacers for Panel and stringer location.

STRINGERS:

The stringer shall be continuous box type, for strength, lateral stability, and for enhanced rolling load performance and to support the panels on all four sides for alignment without leaving any gap at the pedestal head preventing air leakage.

All steel components shall be Galvanized & Electro Plated as per manufacturers offered system & standard practices.

The box tabular section provides a higher footprint area for the panel to rest that improves load carrying performance of the floor. The continuous stringer on both sides fully supports the panel edges and minimizes air leakage.

UNITILE UCB 32MM

EDGE SUPPORT RIGID GRID (ESRG) SYSTEM

PRODUCT STRUCTURAL PERFORMANCE

(As per BSEN 12825)

CLASSIFICATION	DEFLECTION	CONCENTRATED LOAD
Class A	2.5 mm	450 kgs / 4.41 kN

Ultimate Concentrated Load	900 Kgs / 8.82 kN
Uniformly Distributed Load (As per PSA MOB PF2 PS)	1350 / Kgs/m ²
Stringer mid span load as per CISCA	102 Kgs (225 lbf)
Pedestal Axial Load Test As per CISCA	22 kN
Pedestal Over Turning Moment Test As per CISCA	113 N x Meters

OTHER STRUCTURAL PARAMETERS

Soft body impact	Tested as per (T12.03) of MOB PF2 PS Standards
Hard body impact	Tested as per (T12.03) of MOB PF2 PS Standards

ELECTRICAL RESISTIVITY

As per ASTM F150-06

Anti-static range (At 500 Volts)	1x10 ⁹ - 2x10 ¹⁰ Ohms (surface to ground)
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SPECIAL APPLICATIONS

Bridging Sections	Where obstructions prevent the use of pedestals
Ramp Pedestals	Pivot head pedestal to support angled ramp panels

APPLICATIONS

- | | |
|---|--|
| <input checked="" type="checkbox"/> Data Center | <input checked="" type="checkbox"/> Switch Room |
| <input checked="" type="checkbox"/> Computer Room | <input checked="" type="checkbox"/> Communication Room |
| <input checked="" type="checkbox"/> Server / Hub Room | <input checked="" type="checkbox"/> Control room |

FACTORY BONDED FINISHES (if any)

- HPL

INSTALLATION TOLERANCE

Overall level before application of any load	+ 1.5 mm over any 5.00 sq mt. ± 6 mm over any size of basic space
Panel Level	+ 0.75 mm before the application of any load
Panel Interchangeability installation and removal	Interchangeable (except for field cut panels) & replaceable in any of the four directions at 90° increments

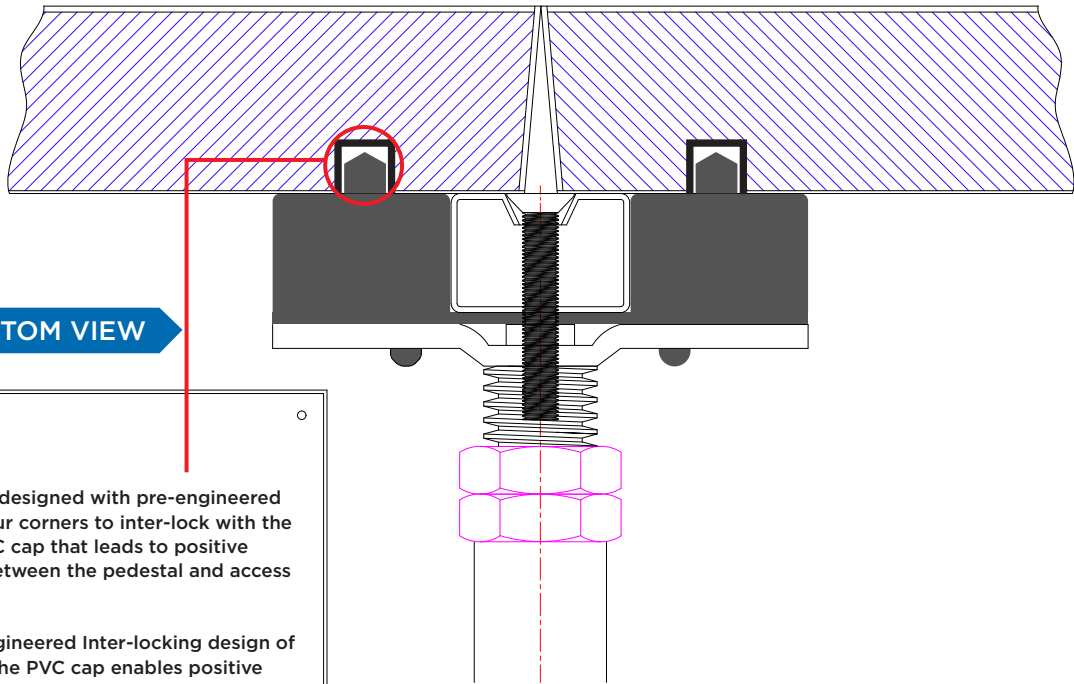
FABRICATION TOLERANCE

Floor Panel Flatness	+ 0.75 mm in any direction
Floor Panel Width or Length from specified size	± 0.50mm
Floor Panel Squareness	± 0.38mm

Note:

- The above mentioned loading parameters are derived & defined on the basis of the tests performed by the manufacturer based on the guidelines provided by the specified standards or as per manufacturer's recommendations.
- Manufacturer has all the rights to change or revise the specifications as and when applicable or required without the prior notice.

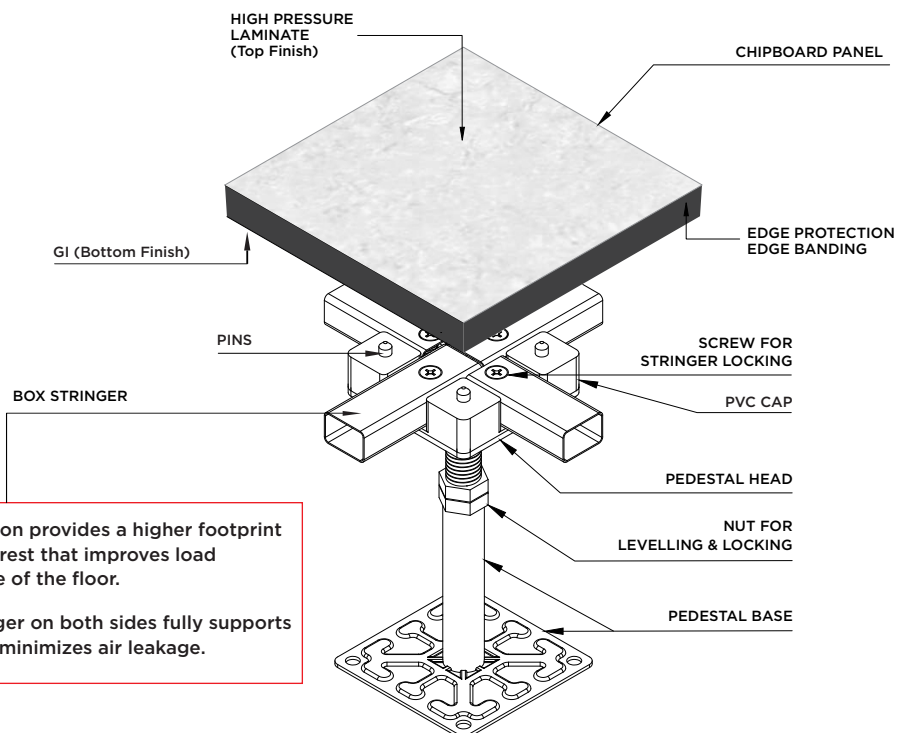
PANEL CONSTRUCTION



PANEL BOTTOM VIEW

- The panels are designed with pre-engineered cavity on all four corners to inter-lock with the pins on the PVC cap that leads to positive engagement between the pedestal and access floor panel.
- The factory-engineered Inter-locking design of the panel and the PVC cap enables positive alignment of the floor without any efforts during the installation and frequent access during service.

UNDERSTRUCTURE



- The box tabular section provides a higher footprint area for the panel to rest that improves load carrying performance of the floor.
- The continuous stringer on both sides fully supports the panel edges and minimizes air leakage.