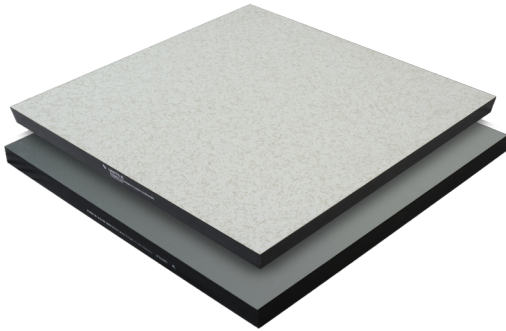


UNITILE UCB 36MM

EDGE SUPPORT RIGID GRID (ESRG) SYSTEM

PANEL ILLUSTRATION



Category	ESRG System
Panel size	600 x 600 mm
Core Material	Chipboard
Panel Core Thickness	36 mm
Panel Weight	10.650 kgs
Weight of System	38kg/ m2 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.
- ▶ Unique In-built stringer design.

PANEL CONSTRUCTION

The UCB floor panel of 36 mm nominal thickness consists of engineered 600 x 600 mm square modular panels constructed around a 36 mm high-density E1 chipboard core strengthened with high-performance thermosetting resins.

The top & bottom surface of the core is fully bonded and laminated by anti-static HPL & AL foil / GI sheet respectively & then trimmed 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 positive positioning and location of the floor panel onto the understructure is ensured.

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 PVC cap with inbuilt isolating spacers for 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. The understructure is designed with pre-engineered flaring on the stringer for positive engagement of the access floor panel.

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 36MM

EDGE SUPPORT RIGID GRID (ESRG) SYSTEM

PRODUCT STRUCTURAL PERFORMANCE

(As per BSEN 12825)

CLASSIFICATION	DEFLECTION	CONCENTRATED LOAD
Class A	2.5 mm	525 / 5.15 kgs / kN
Class B	3.0 mm	600 / 5.88 kgs / kN
Class C	4.0 mm	720 / 7.05 kgs / kN

Ultimate Concentrated Load	1050 Kgs / 10.29kN
Uniformly Distributed Load (As per PSA MOB PF2 PS)	1575 Kgs/ m2
Stringer Load	102 Kgs (225 lbf)
Pedestal Axial Load Test	22 kN
Pedestal Over Turning Moment Test	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 (T13.03) of MOB PF2 PS Standards

ELECTRICAL RESISTIVITY

As per ASTM F150/ NFPA 99 / modified for surface to ground.

Anti-static range	$1 \times 10^9 - 2 \times 10^{10}$ Ohms (surface to surface)
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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

- Data Center
- Switch Room
- Computer Room
- Communication Room
- Server / Hub Room
- Control room

FACTORY BONDED FINISHES (if any)

- HPL

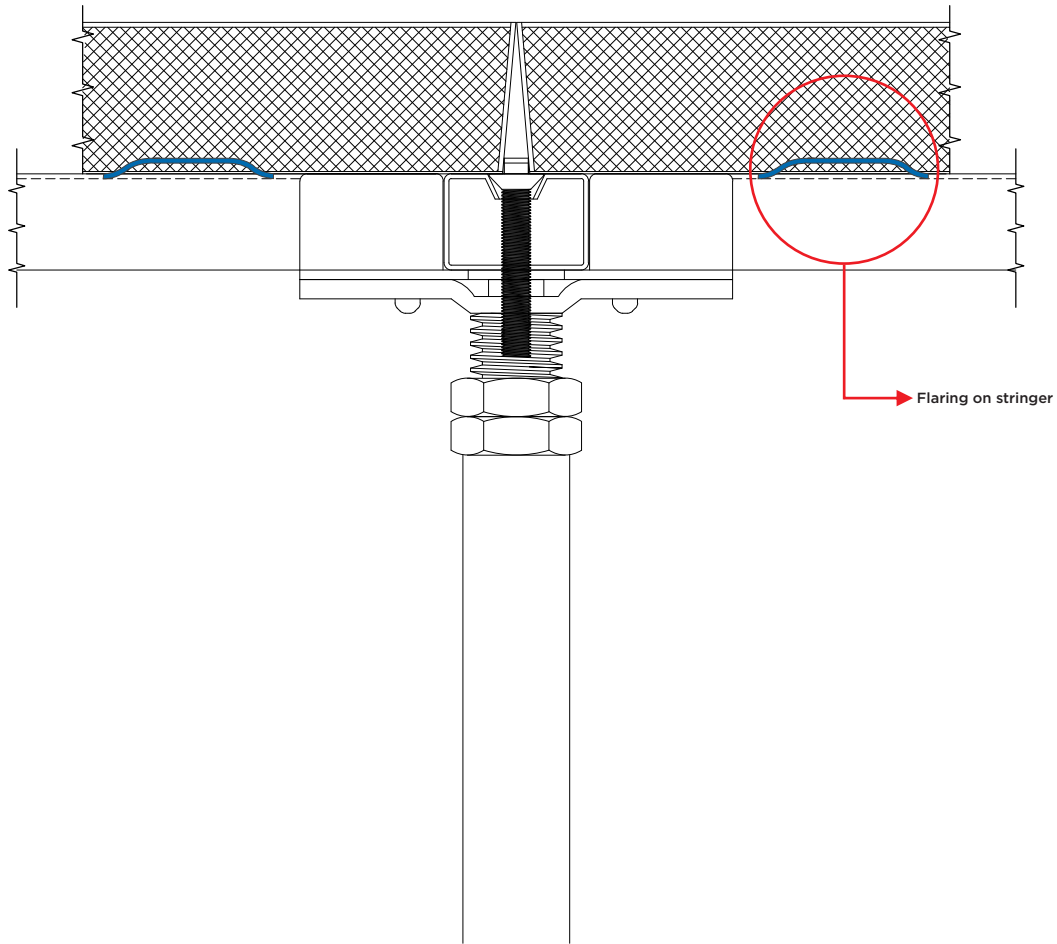
INSTALLATION TOLERANCE

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

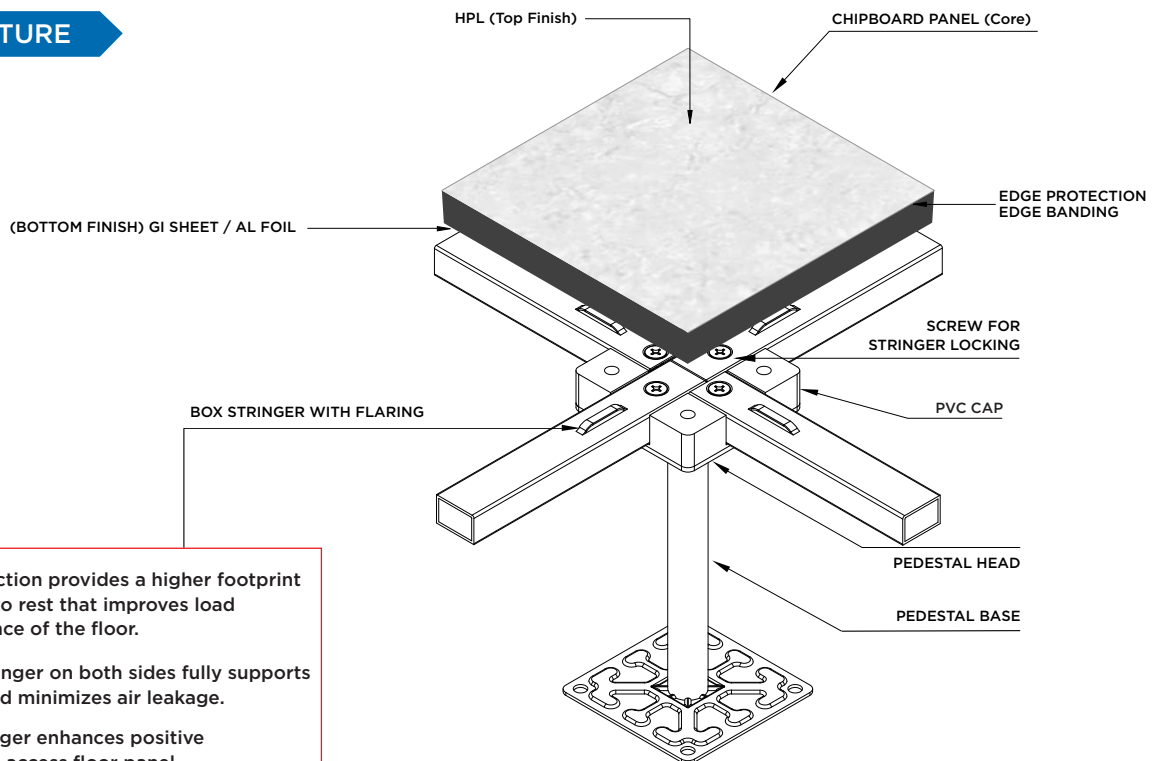
FABRICATION TOLERANCE

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

PANEL CONSTRUCTION



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.
- Flaring on the stringer enhances positive engagement of the access floor panel