

UNITILE UCB 38MM GRAVITY LAY SYSTEM

PANEL ILLUSTRATION



Category	Gravity Lay System
Panel size	600 x 600 mm
Core Material	Chipboard
Panel Core Thickness	38 mm
Panel Weight	12 kgs
Weight of System	36 kg/ m ² for FFH 300 mm (varies with height)
Overall Floor Height	150 mm - 300 mm

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.

PRODUCT STRUCTURAL PERFORMANCE

(As per BSEN 12825)

CLASSIFICATION	DEFLECTION	CONCENTRATED LOAD
Class A	2.5 mm	650 / 6.37 kgs / kN
Class B	3.0 mm	675 / 6.62 kgs / kN
Class C	4.0 mm	820 / 8.04 kgs / kN

Ultimate Concentrated Load	1680 Kgs / 16.47kN
Uniformly Distributed Load (UDL)	2350 Kgs
Stringer Load	102 Kgs (225 lbf)
Pedestal Axial Load Test	22 KN
Pedestal Over Turning Moment Test	113 N x Meters

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 ABS edge band provides total encapsulation of chipboard and protects the edge of surface covering to prevent ingress of moisture. Since electrical continuity is maintained through conductive gasket, 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 conductive cap with inbuilt isolating spacers for Panel and stringer location.

PANEL CONSTRUCTION

The UCB floor panel of 38 mm nominal thickness consists of engineered 600 x 600 mm square modular panels constructed around a 38 mm high-density E2 chipboard core strengthened with high-performance thermosetting resins.

The top & bottom surface of the core is fully bonded and laminated by anti-static High Pressure Laminate and Aluminium Foil 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 ABS edge band, which while providing total encapsulation of the chipboard core also protects the edge of the surface covering and resists ingress of moisture.

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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

According to procedure outlined in NFPA 56A, Chapter 462 but modified for the surface to ground. To place one electrode on the access floor panel surface and to attach the other electrode on the pedestal. Resistance to be tested at 100/500 volts (500 Volts).

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

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

FACTORY BONDED FINISHES (if any)

- HPL

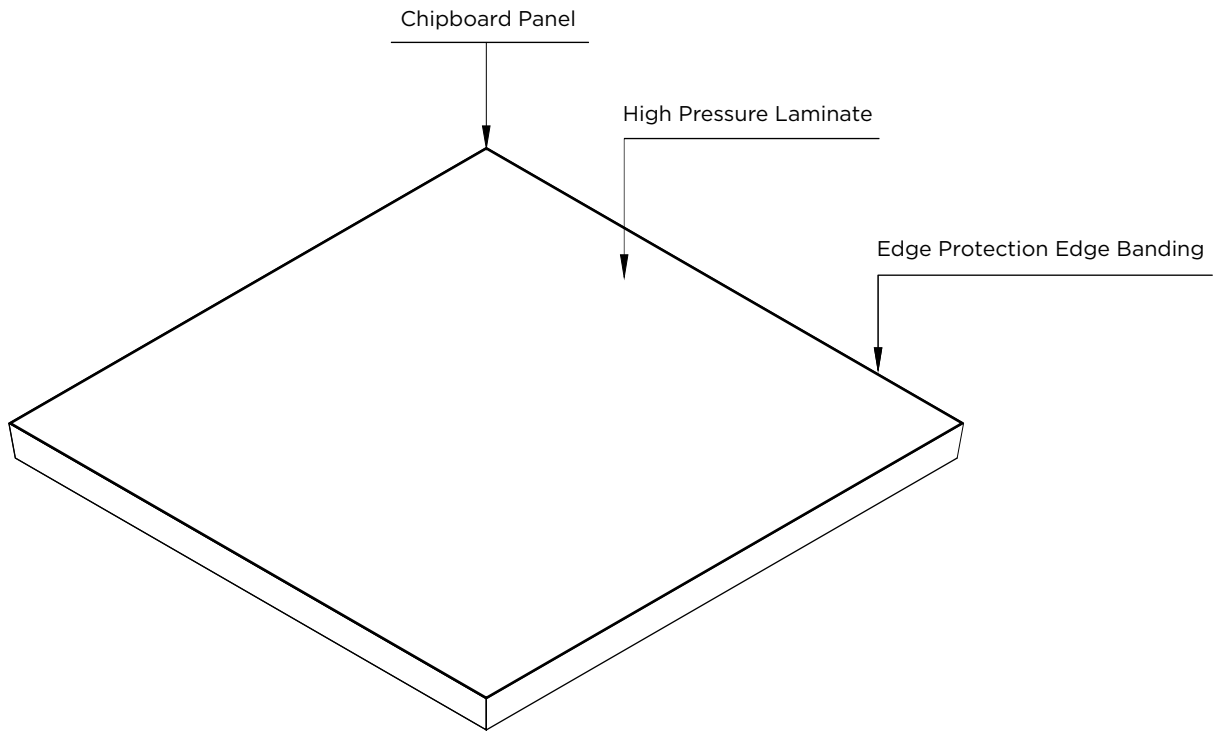
INSTALLATION TOLERANCE

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

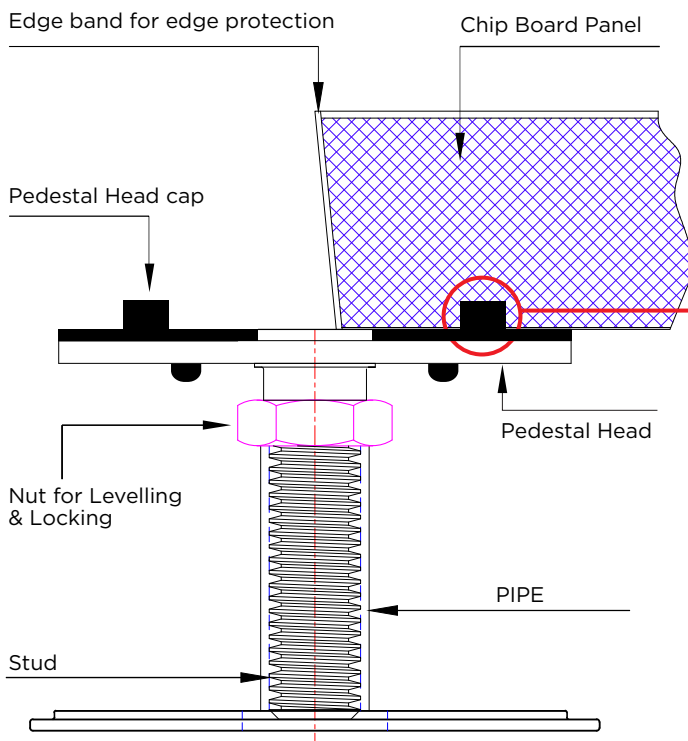
FABRICATION TOLERANCE

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

PANEL CONSTRUCTION



UNDERSTRUCTURE



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.

PANEL FRONT VIEW

