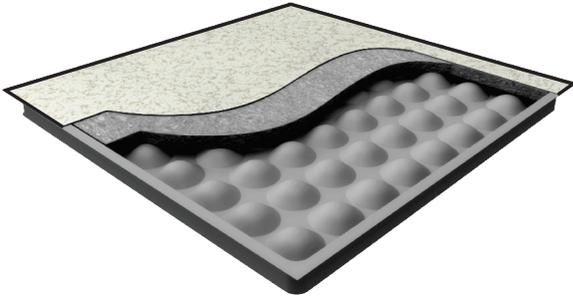


## UNITILE USF 1000 EB

### EDGE SUPPORT RIGID GRID (ESRG) SYSTEM

#### PANEL ILLUSTRATION



Category	Laminated - Edge Beeding, ESRG System
Panel size	600 x 600 mm
Core Material	Cement
Panel Core Thickness	35 mm
Panel Weight	15.1 kgs
Weight of System	46kg/m <sup>2</sup> for FFH 300mm (varies with height)
Overall Floor Height	65 mm - 2000 mm

#### FEATURE BENEFITS

- ▶ Enhanced load-bearing capacity.
- ▶ Higher footprint area on pedestal head leading to enhanced stability & improved load carrying capacity.
- ▶ No overlapping of panels.
- ▶ Edge Support Design reduces the risk of damage to the panel edges during exposures to rolling and impact loads at site.

#### PRODUCT STRUCTURAL PERFORMANCE

Conforming to Master Specs 10270 / 096900 (USA)  
CISCA A/F, 'Recommended Test Procedures for Access Floors'

Concentrated Load (Point Load)	454 kgs (1000 lbf)
Uniformly Distributed Load (UDL)	2025 kg/m <sup>2</sup>
Ultimate Concentrated Load	1135 kgs (2500 lbf)
Rolling Loads	225 kgs (496 lbf)
Stringer Load	102 kgs (225 lbf)
Pedestal Axial Load Test	22 KN
Pedestal Over Turning Moment Test	113 N x Meters

#### SYSTEM DESCRIPTION

USF 1000 Access floor panels are uniquely designed with hemispherical reinforcing pockets on the underside. It ensures structural strength, ultimate durability and acoustic performance.

The pedestal assembly shall provide easy adjustment of leveling and accurately align panels for a maximum  $\pm 25$  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.

The stringer shall be continuous box type, for strength, lateral stability, and for enhanced rolling loads 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 Hot Dip Galvanized.

#### PANEL CONSTRUCTION

USF 1000 Access Floor panel is of size 600 x 600 mm, it is all steel welded construction with an enclosed bottom pan of hemispherical cones and the top plain sheet is fuse-welded at 144 locations to form a panel.

The hollow panels are pretreated and coated with electrostatically deposited epoxy raisein 60 - 80 micron thick on all the exposed sides of the panel. The hollow core of the panel is injected with a light weight, fire retardant, noncombustible cementitious compound at high pressure to ensure support of not less than 90% of the top surface area of the panel.

The panel is then laminated with floor grade Antistatic Laminate on a semi-automated lamination line to ensure maximum bonding to the steel surface. **The edges of the laminated are protected with conductive PVC edge trim 5 mm wide on all sides. This edge trim is mechanically locked and sealed in place to avoid detachment.**

#### APPLICATIONS

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

#### FACTORY BONDED FINISHES

- HPL
- PVC

## UNITILE USF 1000 EB EDGE SUPPORT RIGID GRID (ESRG) SYSTEM

### 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
Fire Rating	Class O & Class 1, as per BS 476 Part 6 & 7, And also ASTM E84 1998 (Flammability) and ASTM E136 (Combustibility)

### INSTALLATION TOLERANCE

Overall level before application of any load	$\pm 1.5$ mm over any 5.00 sq mt. $\pm 6$ 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

### ELECTRICAL RESISTIVITY

As per ASTM F150/ NFPA 99 / ANSI S7.1 / CEI 61340 but modified for surface to ground. Tested at 100/500 volts:

Conductive range	$2.5 \times 10^4$ - $1 \times 10^6$ Ohms (surface to ground)
Static dissipative range	$1 \times 10^6$ - $1 \times 10^9$ Ohms (surface to ground)
Anti-static range	$1 \times 10^9$ - $2 \times 10^{10}$ Ohms (surface to surface)

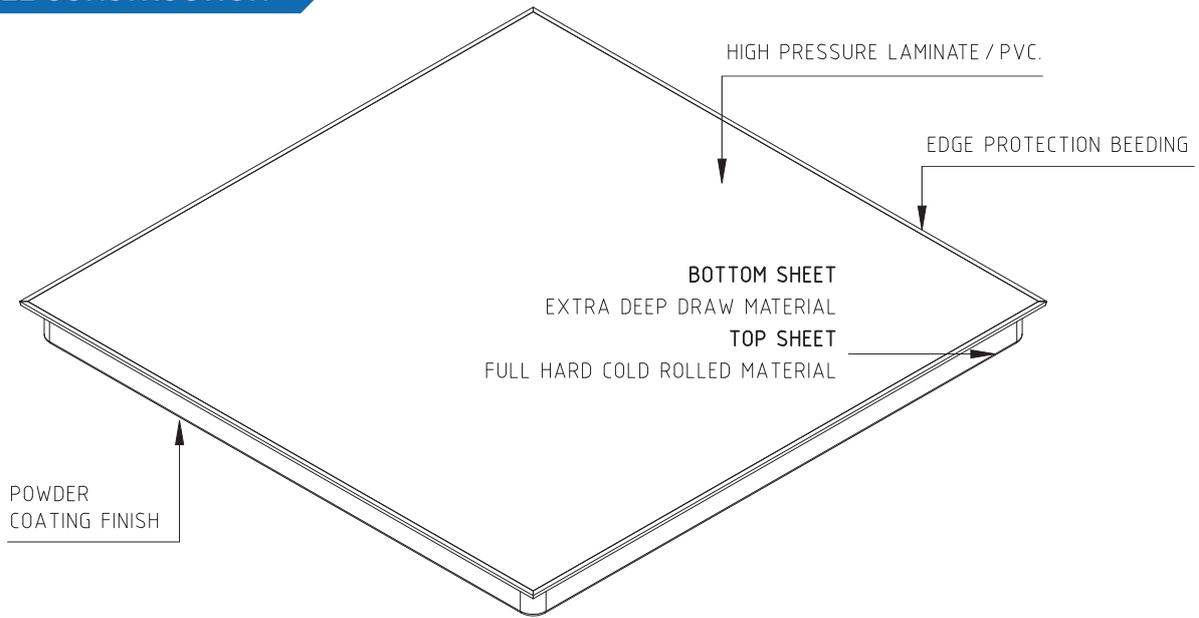
### FABRICATION TOLERANCE

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

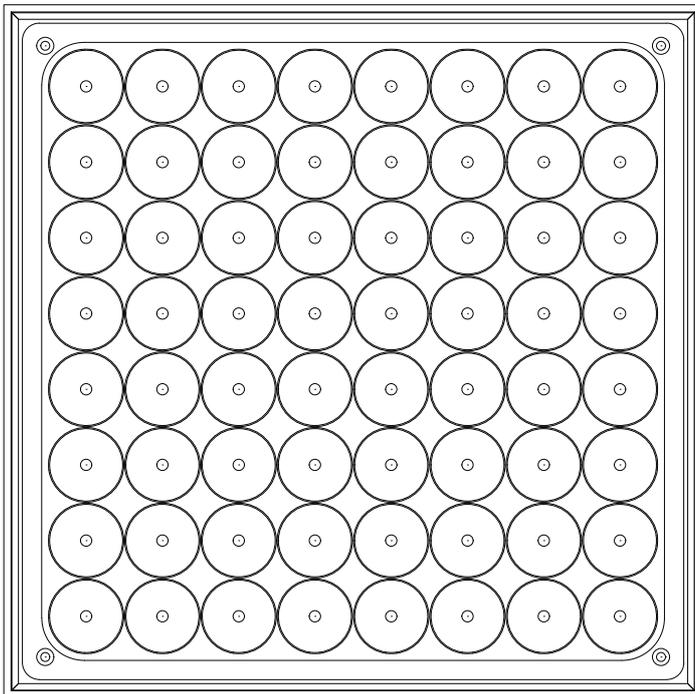
### SPECIAL APPLICATIONS

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

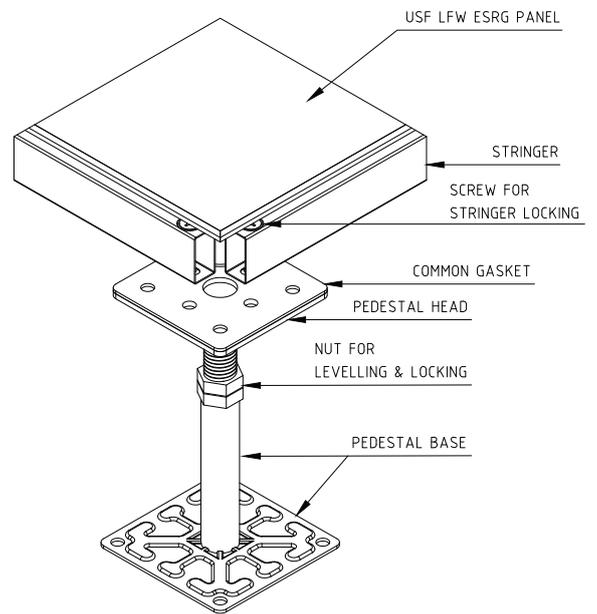
## PANEL CONSTRUCTION



## PANEL BOTTOM VIEW



## UNDERSTRUCTURE



## SECTION VIEW

