



TUFFET TUF 800 EB-HPL



TUF 800 Access floor panels are uniquely designed with hemispherical reinforcing pockets on the underside. It ensures structural strength, ultimate durability and acoustic performance.

TUF-800-HPL access floor panel having dimensions of 600 x 600 mm shall be all steel welded construction, with an enclosed bottom pan of 64 hemispherical and top plain sheet. The top plain sheet is fuse welded at 136 locations to form a panel of an overall thickness of 35mm. The panel after required cleaning, degreasing, phosphating by several tank processes is coated with 40 - 60 micron epoxy coat. The inner empty core of the panel is injected with a light weight fire retardant, non-combustible cementitious compound at high pressure to fill in all the crevices of the panel and ensures support of not less than 90% of the top surface area of the panel. The panel is then laminated with 1 mm thick fire retardant floor grade Antistatic Laminate / Vinyl on a semi -automated lamination line to ensure maximum bonding to the steel surface. The edges of the laminated are protected with black Conductive PVC beading on four sides. This edge trim is locked and sealed.

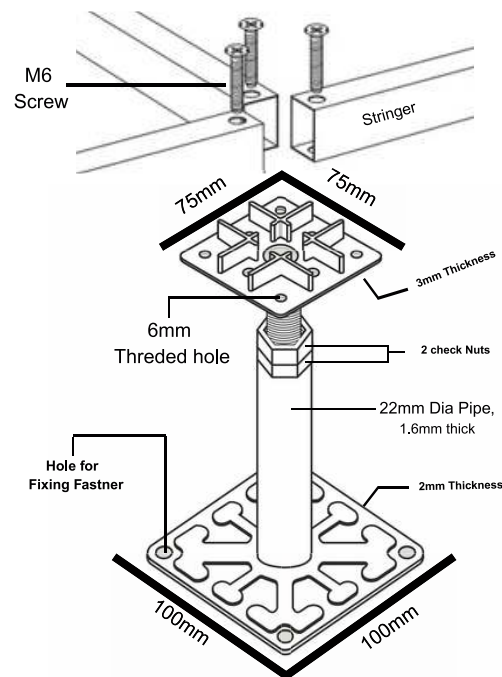
Panel Dimensions	600mm X 600mm
Core Material	Cement Concrete
Weight	14.70Kgs
Finish Floor Height	65mm - 1500mm with understructure
Weight of system	40.80kg/ m ² for FFH 300mm (varies with Height)
Depth	33mm

SUB-STRUCTURE - PEDESTAL & STRINGER ASSEMBLY

The pedestal assembly shall provide easy adjustment of leveling and accurately align panels for a maximum ± 25 mm in the vertical direction. The panel shall be suitable to achieve a maximum finished floor height from 65mm to 1500mm. The pedestal assembly easily remove or relocate for the maintenance work. Pedestals shall support an axial load with out permanent deflection and an ultimate load as laid out in system performance requirement. The pedestal base assembly shall consist of 22 mm OD round pipe of thickness 1.6mm mechanically locked on a press for perpendicularity and then riveted to a base plate of 100 X 100 X 2 mm thick.

The Pedestal head assembly shall consist of 75 x 75 x 3mm embossed head mechanically riveted to a 90 mm long 19 mm dia rolled formed stud and 2 check nuts for level adjustment and arresting vertical movement. The pedestal head shall consist of an anti-vibration conductive PVC cap with inbuilt isolating spacers for Panel and stringer location.

The stringer shall be 20 x 30 x 0.80mm x 575 mm length and specially designed with ribs embossed on 3 sides 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. The stringer to have a counter sunk holes at both ends to accommodate bolting of screws to the pedestal head assembly. All steel components shall be Hot Dip Galvanized.





STRUCTURAL PERFORMANCE : EQUIVALENT TO CISCA A/F, STANDARDS 2007

Concentrated Load / Point Load	363Kgs (800 lbf) with a top surface deflection under load and a permanent set not to exceed, according to CISCA A/F ,Section I
Ultimate Concentrated Load	953Kgs without failing according to CISCA A/F , Section II
Rolling Loads	363kgs (800 lbf) according to CISCA A/F , Section III
Stringer Load Test	120kgs (264lbf) at center of the span with a permanent set not to exceed 0.25 mm (0.010inch) according to CISCA A/F , Section IV
Pedestal Axial Load Test	22KN according to CISCA, Section V
Pedestal Over Turning Moment Test	113Nm according to CISCA, Section VI
Fire Rating	Class O as per British Building Regulations & Class 1 as per BS 476 (Part 6 & Part 7), Conforming to ASTM E 84 1998 (Flammability) & ASTM E136 (Combustibility)

Electrical Resistivity

Conductive Range	2.5x10 ⁴ - 1X 10 ⁶ Ohms (Surface to ground)
Static Dissipative Range	1x10 ⁶ - 1x10 ⁹ Ohms (Surface to ground)
Anti-Static Range	1x10 ⁹ - 2x10 ¹⁰ Ohms (Surface to Surface)

NOTE: Resistance to be tested at 500Volts. Place one electrode on the floor panel and attach another electrode on the pedestal

Fabrication Tolerance

Floor panel flatness	± 0.76 mm in any direction
Floor panel width or length from size	± 0.25 mm
Floor panel squareness	± 0.38 mm

Optional Structural Parameters:-

Uniformly Distributed Load (UDL) 1650 kg/m² UDL Pneumatic Bag Test as per CISCA testing standards 2007, Section VII

Soft Body Impact Test: System does not impact after 40kgs loads dropped from a height of 1000mm and all the performance as specified in the test method (T12.03) of MOB PF2 Ps standards

Hard Body Impact Test: System does not impact after 4.5kgs loads dropped from a height of 600mm and all the performance as specified in the test method (T13.03) of MOB PF2 Ps standards

Installation Tolerance

Overall level before application of any load:	± 1.5 mm over any 5.00sq. 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: shall be interchangeable and replaceable in any of the four directions at 90° Increments.

Applications:-

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| 1. Server Room | 3. Control Room | 5. UPS Room | 7. Computer Room |
| 2. Hub Room | 4. Panel Room | 6. Battery Room | 8. Communication Room |

