DB DAZZLE MODULAR SYSTEMS

Plot No 10C, Hoskote Industrial Area, Survey No 85, Chokahally, Kasaba Hobli,
Hoskote, Bangalore – 562114

TECHNICAL SPECIFICATION

DAZZLE® DSF 1250 EDGE SUPPORT RIGID GRID SYSTEM (ESRG) 150MM-900MM

LAMINATED PANEL / PVC PANEL

Dazzle® DSF 1250 Access Floor panel of size 600 x 600 mm shall be all steel welded construction with an enclosed bottom pan of 49 hemispherical with 36 reverse hemispherical recesses for increased support and top plain sheet is fuse welded at 129 locations to form a panel of an overall thickness of 35 mm. The panel after cleaning, degreasing, phosphating by 7 tank process is coated with 60 - 80 micron epoxy coat and is heated to achieve maximum adhesion to the panel surface and corrosion resistance. 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 floor grade Antistatic Laminate / PVC 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 5mm wide on all sides. This edge trim is mechanically locked and sealed in place to avoid detachment.

SUB STRUCTURE -PEDESTAL ASSEMBLY

Sub structure installed to support the panel shall be suitable to achieve a minimum finished floor height of **150 mm to a maximum of 900 mm** from the existing floor level. Pedestal design shall confirm speedy assembly and removal for relocation and maintenance. The assembly shall provide easy adjustment of leveling and accurately align panels for a maximum ± 25 mm in the vertical direction. Pedestals shall support an axial load without permanent deflection and an ultimate load as laid out in System Performance requirement.

The Pedestal head assembly shall consist of a 75 x 75 x 3.00 mm embossed head mechanically riveted to a 100mm long 5/8" dia rolled formed stud and 2 check nuts for level adjustment and arresting vertical movement. The pedestal head shall consist of an anti-vibrational conductive cap with inbuilt isolating spacers for Panel and stringer location.

The Pedestal Base assembly shall consist of 25.40 mm OD pipe mechanically locked on a press for perpendicularity and then welded to a base plate of 100 x 100 x 2 mm thick with stiffening folds for enhanced strength & excellent grip to glue.

The sub structure assembly shall be suitably anchored to the floor with suitable adhesive or fastener as recommended by the consultant / manufacturer.

STRINGERS

The stringer is hot dipped galvanized steel cold rolled construction 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. The stringer to have a counter sunk hole at both ends to accommodate bolting of M6 machine screws to the pedestal head assembly. The stringers shall be 21 x 32 x 1.0 x 570 mm length.

PERFORMANCE CONFORMING TO MASTER SPECS 10270 / 096900 (USA)

A: Structural Performance: CISCA A/F, 'Recommended Test Procedures for Access Floors'

- **Concentrated Loads:**
  568 Kgs (1262 lbf) with a top-surface deflection under load and a permanent set not to exceed 2.54 & 0.25mm (0.10 & 0.010 inch) respectively according to CISCA A/F, Section I '' Concentrated Loads''

- **Ultimate Concentrated Load:**
  1420 Kgs (3155 lbf) without failing according to CISCA A/F, Section II '' Ultimate Loading''

- **Rolling Loads:**
  270 kgs (600 lbf) of the following magnitude, with a combination of local and overall deformation not to exceed 1.02 mm (0.040 inch) according to CISCA A/F, Section III '' Rolling Loads''
  CISCA AF Rolling Load: 10000 Passes

- **Stringer Load Testing:**
  102Kgs (225 lbf) at the center of the span with a permanent set not to exceed 0.25mm (0.010 inch) as determined by CISCA A/F, Section IV, '' Stringer Load Testing''

- **Pedestal Axial Load Test:**
  22 kN axial Load per pedestal, according to CISCA A/F, Section V, ''Pedestal Axial Load Test''

- **Pedestal Over Turning Moment Test:**
  113 N x meters, according to CISCA A/F, Section VI, ''Pedestal Overturning Moment Test''

B: Other Optional Structural Parameters:

- **Uniformly Distributed Load (UDL)**
  2500 kg/m^2 with a maximum permissible deflection of not more than 2.54 mm as per definition of "Uniform load" of CISCA tested over an area of 1 ft. x 1 ft. for 330 lbf/ft^2 load.
  Note: The uniform load rating of an access floor panel as specified here in should not be confused with the "uniform live load" as specified in seismic zone application.

- **Soft body impact test** on the system shall be with a load of 40 kgs dropped form a height of 1000 mm and shall comply to all the performance as specified in the test method (T12.03) of MOB PF2 PS Standards.

- **Hard body impact test** on the system shall be with 4.5 kgs dropped from a height of 600 mm and shall comply to all the performance as specified in the test method (T13.03) of MOB PF2 PS Standards.

C: Other Nonstructural Parameters:

- **Fire Rating:**
  The Panels shall confirm to Class O & Class 1 Fire Ratings tested as per BS 476 Part 6 (Fire Propagation) & 7 (Surface spread of flame) as also ASTM E84 1998 (Flammability) and ASTM E136 (Combustibility)

- **Electrical Resistivity**:
  As per ASTM F150/ NFPA 99 / ANSI S7.1/ CEI 61340 but modified for surface to ground to place one electrode on the floor surface and to attach the other electrode on the pedestal. Resistance to be tested at 100 / 500 volts

  1. Conductive range : $2.5x10^4$ - $1x\ 10^6$ Ohms (surface to ground)
  2. Static dissipative range : $1x10^6$- $1x10^9$ Ohms (surface to ground)
  3. Anti-static range : $1x10^9$ - $2x10^{10}$ Ohms (surface to surface)

- **Fabrication Tolerance**
  A. Floor panel flatness **:** ± 0.75 mm in any direction
  B. Floor panel width or length from specified size **:** ± 0.50 mm
  C. Floor panel squareness **:** ± 0.38 mm

- **Installation Tolerance**

  A. Overall level before application of any load : ± 1.5 mm over any 5.00 Sqmt
  ± 6 mm over any size of basic space
  B. Panel level : + 0.75 mm before the application of any load
  C. Panel Interchangeability installation and removal : shall be interchangeable (except for field cut panels) and replaceable in any of the four directions at 90º increments