



APPLICATION DATA CENTER / SERVE ROOM

TITANFLOR® - 'ANTI-STATIC RAISED FLOOR' SYSTEM

*We are not producing products, we are producing values for you*

# DATA CENTER PANEL SERIES

## Specification Details

Panel Type TITANFLOR®HPL Finish Raised Floor  
 Understructure TITANFLOR® FS-B-PST Understructure

## Description of 'Anti-static Raised Floor' System

The stringered "Anti-static Raised Floor" System forms an extremely stable surface and maintains an anti-static environment by combining panels captured within a stringered understructure. The panel and understructure unite to provide excellent lateral stability and rigidity along with easy underfloor access.



## Performance Summary



|                       |   |
|-----------------------|---|
| Application           | A data center, computer room, server room where there is a requirement to route mechanical services and cables, wiring, and electrical supply. The space is likely to be subject to equipment loads, normal levels of foot traffic and infrequent rolling loads in the room corridors and aiseways. |
| Performance           | The raised floor will be with a safety factor of three times the concentrated (design) load, and is capable of meeting static and dynamic loads per CISCA Platform (Raised Access) Floors Performance Specification.  |
| Finished Floor Height | The finished floor height of the access floor, measured from the sub-floor to the top surface of the installed access floor, shall be as shown in the contract drawings.  |
| Installation          | The raised floor will be rigid, free from vibration and rocking panels within a $\pm 3.0\text{mm}$ level over the entire space.   |
| Surface Finish        | The raised floor shall have a 'HPL' (High Pressure Laminate) panel surface finish   |
| Fire Rating           | All panels are to provide zero fire hazard indices under CISCA Platform (Raised Access) Floors Performance Specification – Fire and Safety Requirements.  |
| Maintenance           | All whole panels will be interchangeable allowing for any future changes. The access floor will maintain these original conditions when runs of panels have been removed for normal underfloor access.  |

## Performance to Standards Guide per CISCA Platform

### (Raised Access) Floors Performance Specification

Structural Performance: Provide access flooring system capable of supporting the following loads and stresses within limits and under conditions indicated, as demonstrated by testing manufacturer's current standard products according to referenced procedures in latest revised edition of Ceilings and Interior Systems Construction Associates (CISCA) "Recommended Test Procedures for Access Floors" referenced elsewhere in this section as CISCA/AF or, if not specified, manufacturers standard method

1. Concentrated Loads: To determine the maximum deflection(s) and permanent set(s) of an access floor under load.
2. Ultimate Load: To verify the ability of an access floor to accept the manufacturers' published ultimate load.
3. Rolling Loads: To determine the durability and/or deformation of access floor systems when exposed to commercially anticipated caster traffic using a specified load.
4. Uniform Loads: To determine the maximum deflection(s) and permanent set(s) of an access floor under a uniformly distributed load.
5. Drop Impact Loads: The purpose of this test is to show the effect upon access floor panels and supporting understructure system(s) when subject to impact from heavy loads being accidentally dropped onto the floor panel.
6. Pedestal Axial Loads: To verify the axial load an access floor pedestal assembly can withstand without structure failure or damage to components inclusive of threads, nuts, collars, etc.
7. Pedestal Overturning Moment Loads: To determine the overturning moment an access floor pedestal assembly and its application to the sub-floor can resist.

| Type   | Size             | Rolling load |               | Uniform load               |                            | Ultimate load |         | Concentrated load          |         |                            |        |
|--------|------------------|--------------|---------------|----------------------------|----------------------------|---------------|---------|----------------------------|---------|----------------------------|--------|
|        |                  | 10PASS       | 10KPAAAS<br>S |                            |                            |               |         | 0.100"/2.5mm<br>DEFLECTION |         | 0.080"/2.0mm<br>DEFLECTION |        |
| FS800  | 600*600*<br>35mm | 2.94KN       | 2.45KN        | 4000<br>LB/m <sup>2</sup>  | 17.78<br>KN/m <sup>2</sup> | 2530LB        | 11.25KN | 800LB                      | 3.56KN  | 750LB                      | 3.34KN |
| FS1000 | 600*600*<br>35mm | 3.56KN       | 2.67KN        | 5000L<br>B/m <sup>2</sup>  | 22.22<br>KN/m <sup>2</sup> | 3260LB        | 14.50KN | 1000LB                     | 4.45KN  | 800LB                      | 3.56KN |
| FS1250 | 600*600*<br>35mm | 4.45KN       | 3.56KN        | 6250<br>LB/m <sup>2</sup>  | 27.78<br>KN/m <sup>2</sup> | 4130LB        | 18.36KN | 1250LB                     | 5.56KN  | 1000LB                     | 4.45KN |
| FS1500 | 600*600*<br>35mm | 5.56KN       | 4.45KN        | 7500<br>LB/m <sup>2</sup>  | 33.34<br>KN/m <sup>2</sup> | 5000LB        | 22.17KN | 1500LB                     | 6.68KN  | 1250LB                     | 5.56KN |
| FS2000 | 600*600*<br>35mm | 6.68KN       | 5.56KN        | 10000<br>LB/m <sup>2</sup> | 44.45<br>KN/m <sup>2</sup> | 6620LB        | 29.42KN | 2000LB                     | 8.89KN  | 1500LB                     | 6.68KN |
| FS2500 | 600*600*<br>35mm | 8.89KN       | 6.68KN        | 13000<br>LB/m <sup>2</sup> | 57.79<br>KN/m <sup>2</sup> | 8400LB        | 37.34KN | 2500LB                     | 11.11KN | 2000LB                     | 8.89KN |