



APPLICATION DATA CENTER / SERVE ROOM
TITANFLOR® - 'ANTI-STATIC RAISED FLOOR' SYSTEM

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DATA CENTER PANEL SERIES

Specification Details

Panel Type	TITANFLOR® PVC 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, serve 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 aisleways.
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 'PVC' (conductive vinyl tile) 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					0.100"/2.5mm DEFLECTION		0.080"/2.0mm DEFLECTION	
FS800	600*600* 35mm	2.94KN	2.45KN	4000 LB/m ²	17.78 KN/m ²	2530LB	11.25KN	800LB	3.56KN	750LB	3.34KN
FS1000	600*600* 35mm	3.56KN	2.67KN	5000L B/m ²	22.22 KN/m ²	3260LB	14.50KN	1000LB	4.45KN	800LB	3.56KN
FS1250	600*600* 35mm	4.45KN	3.56KN	6250 LB/m ²	27.78 KN/m ²	4130LB	18.36KN	1250LB	5.56KN	1000LB	4.45KN
FS1500	600*600* 35mm	5.56KN	4.45KN	7500 LB/m ²	33.34 KN/m ²	5000LB	22.17KN	1500LB	6.68KN	1250LB	5.56KN
FS2000	600*600* 35mm	6.68KN	5.56KN	10000 LB/m ²	44.45 KN/m ²	6620LB	29.42KN	2000LB	8.89KN	1500LB	6.68KN
FS2500	600*600* 35mm	8.89KN	6.68KN	13000 LB/m ²	57.79 KN/m ²	8400LB	37.34KN	2500LB	11.11KN	2000LB	8.89KN