

The image shows a server room with several racks of servers. A man in a dark blue shirt and jeans is kneeling on a raised floor system, working on a white panel. He is using a pair of green-handled pliers. The floor consists of white perforated tiles. The logo 'TITAN FLOR' is overlaid in the top left corner.

**TT** TITAN FLOR

APPLICATION DATA CENTER / SERVE ROOM

TITANFLOR® - 'CALCIUM SULPHATE RAISED FLOOR' SYSTEM

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

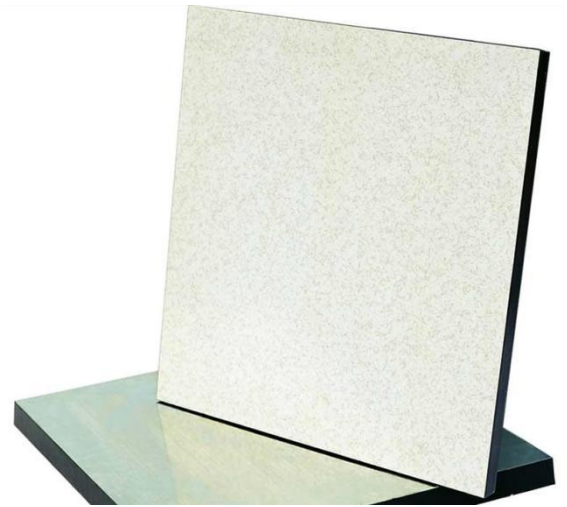
# DATA CENTER PANEL SERIES

## Specification Details

Panel Type TITANFLOR® Calcium Sulphate Raised Floor  
 Understructure TITANFLOR® FS-B-PST Understructure

## Description of 'Calcium Sulphate Floor' System

The stringered "Calcium Sulphate 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.
Acoustical Characteristics	The material structure, design features and high production precision of calcium sulphate raised floor provide excellent acoustic values. The extremely good walk-on properties offer a high degree of comfort and create a perfect working ambience.
Ecology	Due to this environment friendly production process and the use of ecological materials, calcium sulphate raised floor will be recyclable from 90% to 97% at the end of its life - a very important economical aspect nowadays.
Moisture Resistance	Calcium sulphate raised floor has a good performance to a (slight) degree of moisture. It is easier to maintain and clean floor, service life of floor will also be longer than a chipboard floor.
Surface Finish	The raised floor shall have a 'HPL' (High Pressure Laminate) or "Vinyl(Conductive ESD PVC) 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 S					0.100"/2.5mm DEFLECTION		0.080"/2.0mm DEFLECTION	
Heavy Grade	600*600m m Thick: 30-38mm	3.56KN	2.67KN	5000L B/m <sup>2</sup>	22.22 KN/m <sup>2</sup>	3260LB	14.50KN	1000LB	4.45KN	800LB	3.56KN
Extra Heavy Grade		4.45KN	3.56KN	6250 LB/m <sup>2</sup>	27.78 KN/m <sup>2</sup>	4130LB	18.36KN	1250LB	5.56KN	1000LB	4.45KN
		5.56KN	4.45KN	7500 LB/m <sup>2</sup>	33.34 KN/m <sup>2</sup>	5000LB	22.17KN	1500LB	6.68KN	1250LB	5.56KN
		6.68KN	5.56KN	10000 LB/m <sup>2</sup>	44.45 KN/m <sup>2</sup>	6620LB	29.42KN	2000LB	8.89KN	1500LB	6.68KN