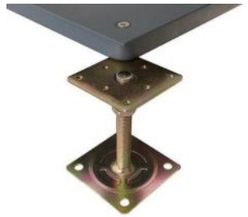
RAISED FLOORING

OA600 BARE STEEL RAISED FLOOR

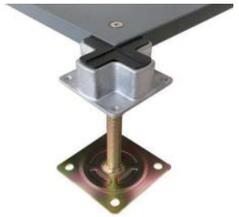


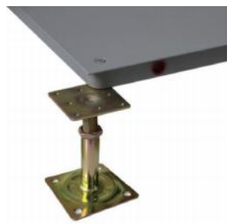
Characteristic

- Excellent loading performance
- Light weight cement
- Completely noncombustible
- Black cathodic epoxy painting for life-time protection
- Unique seamless edge banding technique



Rod type pedestals





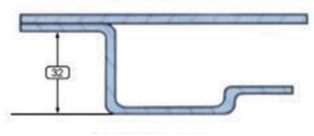


Tube type pedestals

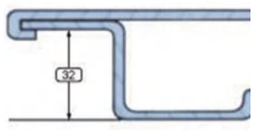


Structure

All steel components, four independent support structure, base steel plate use ST14 tensile plate, surface hard steel sheet(SPCC), floor surface through conductive epoxy processing.Surface can be coverde with square carpets/PVC carpets and other decoration materials,which are easy to clean.



Cut edge



Fold edge

Application

Bare finish steel raised floor can solve the wiring problem in modern offices perfectly and adapts to the requirements of fast network changes. Therefore, it is widely used in office buildings, meeting rooms, commercial and industrial bureaus, and places with dustproof and waterproof requirements, usually with square carpet on the top as surface.



Technical Parameters

Type	Size	Uniform Load	Concentrated Load		Rolling Load		Impact load	Umtimate Load
			0.1”/ 2.5mm Deflection		10 Times	10000 Times		
FS662	600*600*33mm	11.77KN/㎡	2.94KN	300KG	2.45KN	2.00KN	100LB/45KG	8.85KN
FS800	600*600*33mm	14.22KN/㎡	3.56KN	363KG	2.94KN	2.45KN	100LB/45KG	11.25KN
FS1000	600*600*33mm	17.78KN/㎡	4.45KN	454KG	3.56KN	2.67KN	150LB/68KG	14.50KN
FS1250	600*600*33mm	22.23KN/㎡	5.56KN	567KG	4.45KN	3.56KN	150LB/68KG	18.36KN
FS1500	600*600*33mm	26.67KN/㎡	6.67KN	680KG	5.56KN	4.45KN	175LB/79KG	22.17KN
FS2000	600*600*33mm	35.56KN/㎡	8.89KN	907KG	6.68KN	5.56KN	175LB/79KG	29.42KN

OA500 BARE STEEL RAISED FLOOR

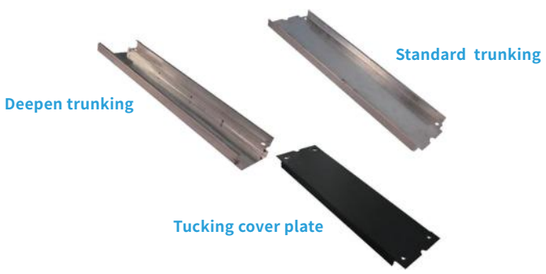
Structure

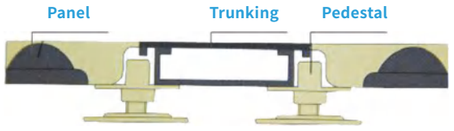
OA intelligence network raised floor is made of good quality cold-rolled steel sheet with foaming cement fully filled. The borders of the panel are trimmed with corner-lock holes. Trucking can be placed at any point without cutting floor, much easier for inspecting and repairing. Strong current and weak current can be separated, suitable for all kinds of wires and plug socket terminals.



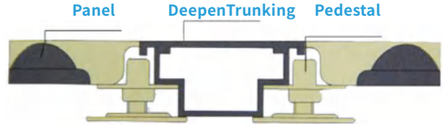
Characteristic

- Fire-proof class A, moistureproof, dustproof
- Assembly agility, large wire, good exchangeability
- Avoid aged or short circuit problems of wiring
- High recycled, convenient removing, cost saving





Schematic diagram of the standard trunking



Schematic diagram of the deepen trunking

Technical Parameters

Type	Size	Uniform Load	Concentrated Load		Rolling Load		Impact load	Umtimate Load
			0.1"/ 2.5mm Deflection		10 Times	10000 Times		
FS450	500*500*28mm	8.00KN/㎡	2.00KN	204KG	1.78KN	1.56KN	75LB/34KG	6.89KN
FS662	500*500*28mm	11.77KN/㎡	2.94KN	300KG	2.45KN	2.00KN	100LB/45KG	8.85KN
FS800	500*500*28mm	14.22KN/㎡	3.56KN	363KG	2.94KN	2.45KN	100LB/45KG	11.25KN
FS1000	500*500*28mm	17.78KN/㎡	4.45KN	454KG	3.56KN	2.67KN	150LB/68KG	14.50KN

LOW PROFILE STEEL RAISED FLOOR

Structure

Low profile raised floor is the traditional network breakthrough and the innovation of the floor. In addition to possesses the advantages of ordinary network floor, it has wider usage range. Installation is more convenient, more environmentally friendly. It can be widely used in Japan, South Korea, Taiwan.



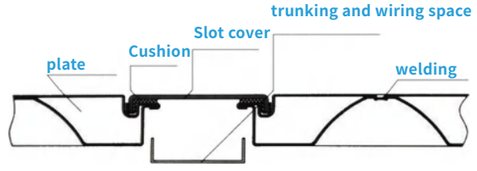


Assembly diagram

Characteristic

- Green environmental protection and recyclable
- Light weight, only the ordinary floor 1/2 to 2/3
- Good electrical conductivity, easy to wiring
- Specially designed for low complete height







Technical Parameters

Type	Size	Uniform Load	Concentrated Load		Rolling Load		Impact load	Umtimate Load
			0.1"/ 2.5mm Deflection		10 Times	10000 Times		
FS450	500*500*25mm	8.00KN/㎡	2.00KN	204KG	1.78KN	1.56KN	75LB/34KG	6.89KN
FS662	500*500*25mm	11.77KN/㎡	2.94KN	300KG	2.45KN	2.00KN	100LB/45KG	8.85KN
FS800	500*500*25mm	14.22KN/㎡	3.56KN	363KG	2.94KN	2.45KN	100LB/45KG	11.25KN

ANTI-STATIC STEEL RAISED FLOOR

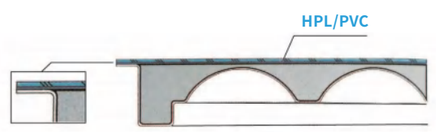


Structure

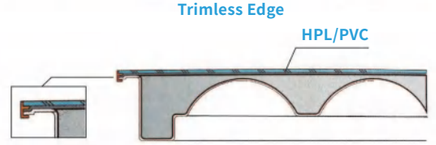
Anti-static raised floor is made of good quality cold-rolled steel sheet with foaming cement fully filled. The surface is stuck with High Pressure Laminate (HPL) or Conductive PVC tile. The whole raised floor system is composed of raised floor, pedestal and stringer.

Application

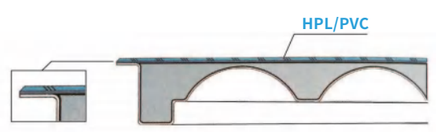
Computer room, data center, control room, laboratory, office building, bank, post telegraph, power control center, workshop and places where require anti-static environment or have many wires.



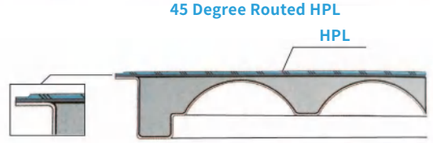
Trimless Edge



"F" Edge Trim



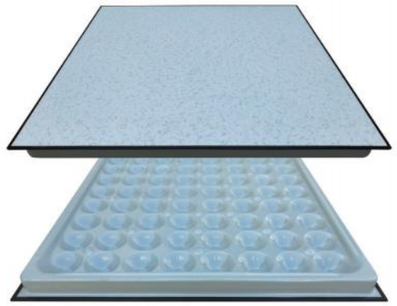
45 Degree Routed HPL



Integral Trim

Characteristic

- High strength and load capacity
- Fireproof, waterproof, dustproof
- Permanent anti-static function
- Easy access to cables below
- Low maintenance cost
- Excellent dimension accuracy



Anti static HPL finish



Conductive PVC tile



Technical Parameters

Type	Size	Uniform Load	Concentrated Load		Rolling Load		Impact load	Umtimate Load
			0.1"/ 2.5mm Deflection		10 Times	10000 Times		
FS662	600*600*35mm	11.77KN/㎡	2.94KN	300KG	2.45KN	2.00KN	100LB/45KG	8.85KN
FS800	600*600*35mm	14.22KN/㎡	3.56KN	363KG	2.94KN	2.45KN	100LB/45KG	11.25KN
FS1000	600*600*35mm	17.78KN/㎡	4.45KN	454KG	3.56KN	2.67KN	150LB/68KG	14.50KN
FS1250	600*600*35mm	22.23KN/㎡	5.56KN	567KG	4.45KN	3.56KN	150LB/68KG	18.36KN
FS1500	600*600*35mm	26.67KN/㎡	6.67KN	680KG	5.56KN	4.45KN	175LB/68KG	22.17KN
FS2000	600*600*35mm	35.56KN/㎡	8.89KN	907KG	6.68KN	5.56KN	175LB/79KG	29.42KN
FS2500	600*600*35mm	44.45KN/㎡	11.11KN	1134KG	8.89KN	6.68KN	200LB/91KG	37.34KN

CERAMIC STEEL RAISED FLOOR

Structure

To Improve traditional ceramic tile laid method, the all-steel floor surface sticks ceramic tile . The borders are trimmed with black PVC edge trim as protection, hole design on top steel plate allows that cement can stick ceramic and steel panel part together firmly.





Characteristic

- Patent anti static ceramic
- Better resistance against abrasion
- Excellent anti-static performance
- Higher fire-proof grade as much as 1000°C



Standard Type



Perforated Type



Antistatic Type

Technical Parameters

Type	Size	Uniform Load	Concentrated Load		Rolling Load		Impact load	Umtimate Load
			0.1”/ 2.5mm Deflection		10 Times	10000 Times		
FS1000	602*602*40mm	22.22KN/㎡	4.45KN	454KG	3.56KN	2.67KN	150LB/68KG	14.50KN
FS1250	602*602*40mm	27.78KN/㎡	5.56KN	567KG	4.45KN	3.56KN	150LB/68KG	18.36KN
FS1500	602*602*40mm	33.34KN/㎡	6.68KN	680KG	5.56KN	4.45KN	175LB/79KG	22.17KN
FS2000	602*602*40mm	44.45KN/㎡	8.89KN	907KG	6.68KN	5.56KN	175LB/79KG	29.42KN

GRC RAISED FLOOR



Structure

GRC panel is a new generation of environmentally friendly office raised floor. The panel does not add any adhesives, which can be naturally decomposed, the materials inside are recycled and reused. The panel is formed in one time, there is no steel up and down, load capacity is high, sound insulation is excellent.

Application

Office building, meeting room, commercial & industrial bureau and areas that have high requirements for fire-proof, sound-proof, usually used with square carpets.



Characteristic

- Fire-proof, moisture proof, corrosion resistance
- Flexible assembly, good interchangeability, easy mainte nance
- Good walking feeling, excellent sound insulation
- Ventilation structure, convenient and flexible wiring


Ventas
Postventa



ENCAPSULATED RAISED FLOOR



Structure

Encapsulated panel is fully wrapped around by hot dipped galvanized steel. The top and bottom steel sheet is pressed and riveted, with high-density chipboard or high-strength calcium sulphate as the inside core.



Calcium sulphate board



Chipboard



Application

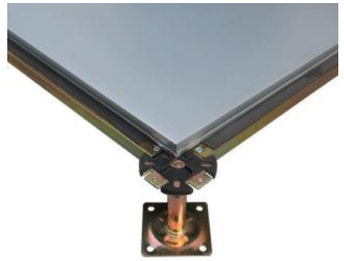
Office building, intelligent office environment, meeting room, commercial and industrial bureau, government, fields with wiring requirements, usually used with square carpet.

Characteristic

- Flexible layout for office building
- Fireproof, waterproof, dustproof
- High strength and load capacity
- Good thermal and sound insulation
- Recyclable and environmental friendly
- Easy to repair wiring



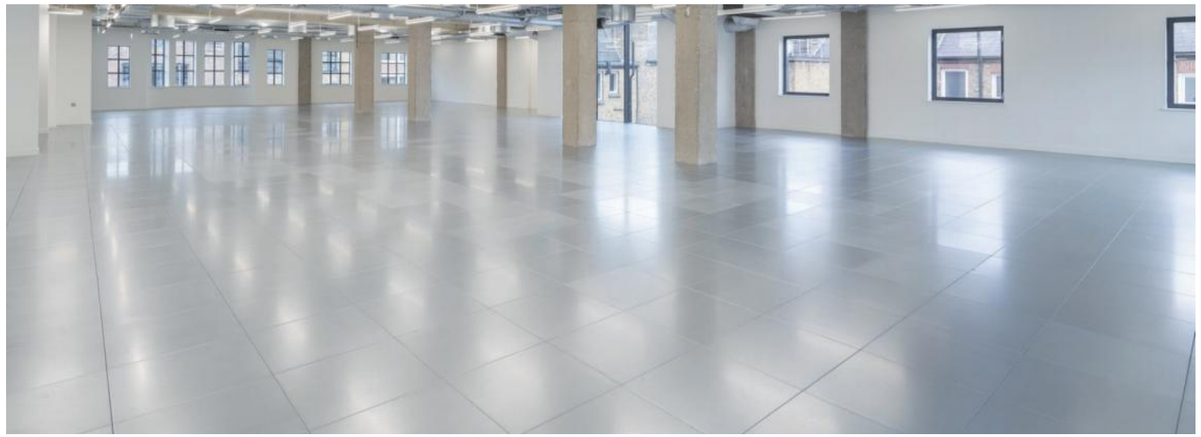
Corner lock system



Stringer system



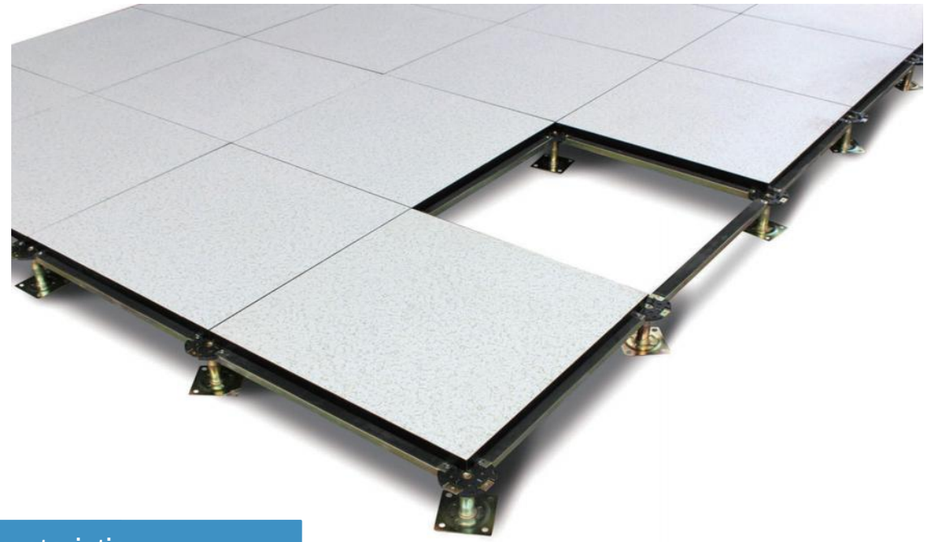
Free-standing system



Technical Parameters

Type	Size	Ultimate Load	Safety Factor	Maximum Deflection	Hard/Soft Body Impacts	Fire Resistance
Class 1	Calcium Sulphate: 600*600*26/30mm Chipboard: 600*600*31mm	⩾4KN	2	Class A	Good	Calcium Sulphate: Class $A1_{fl}$ Chipboard: Class B_{fl-s1}
Class 2		⩾6KN	2	Class A	Good	
Class 3		⩾8KN	2	Class A	Good	

CALCIUM SULPHATE RAISED FLOOR
WOOD-CORE RAISED FLOOR



Characteristic

- High strength and load capacity
- Good thermal and sound insulation
- Flame retardant, antiskid, antirust, antisoil
- High dimension accuracy and sealing
- Recyclable and environmental friendly
- Suitable for different coverings



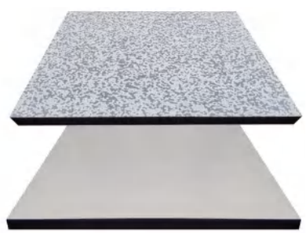
Anti static HPL finish



Vinyl flooring finish



Porcelain finish



Conductive PVC tile



Wood flooring finish



Steel finish

Structure

Calcium sulphate raised floor takes the environment friendly natural gypsum and plant's fibre as the raw material, then solidify the calcium sulphate crystals, and after the pulse pressing process done.

Wood-core raised floor is made of high-density chipboard. The top surface can be stuck with all kinds of covering, the bottom is covered with aluminum foil or galvanized steel sheet. Four edges are sealed with PVC edge trim.



Calcium Sulphate Raised Floor



Wood-core Raised Floor

Application

High-grade rooms, such as banks, telecommunication centers, smart offices and computer rooms.



Technical Parameters

Type	Size	Ultimate Load	Safety Factor	Maximum Deflection	Hard/Soft Body Impacts	Fire Resistance
Class 3	Calcium Sulphate: 600*600*30-40mm Chipboard: 600*600*32/40mm	⩾8KN	3	Class A	Good	Calcium Sulphate: Class $A1_{fl}$ Chipboard: Class B_{fl-s1}
Class 4		⩾9KN	3	Class A	Good	
Class 5		⩾10KN	3	Class A	Good	
Class 6		⩾12KN	3	Class A	Good	

STEEL PERFORATED PANEL

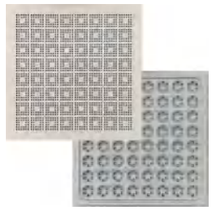
Structure

The perforated raised floor is specially designed for the places with ventilation requirements under the floor. It is made of high-quality steel plate. After stretching, punching, spot welding, and plastic spraying, the inner cavity is hollow with a reinforced grid. The floor shape has high accuracy and can be interchanged with any other floors. The ventilation rate is 20% ~ 75%.

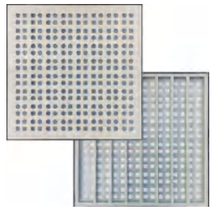




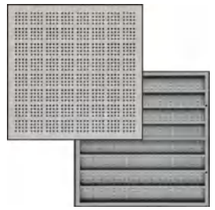
◆ Ventilation Rate: 20%



◆ Ventilation Rate: 22%



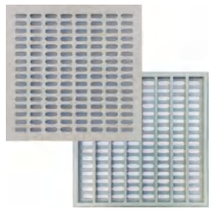
◆ Ventilation Rate: 23%



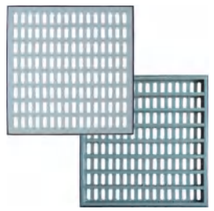
◆ Ventilation Rate: 23%



◆ Ventilation Rate: 28%



◆ Ventilation Rate: 35%



◆ Ventilation Rate: 45%



◆ Ventilation Rate: 45%



◆ Ventilation Rate: 48%



◆ Ventilation Rate: 55%



◆ Ventilation Rate: 70%



◆ Ventilation Rate: 75%

Application

Computer rooms, communication rooms, exchange equipment rooms and places require air circulation,- dust-proof and anti-static environment.









□□□□□□□□□□□□□□

Characteristic

In order to face the challenges of high density cabinets and thermal load in data center, Titanflor has developed a series of high-efficiency and energy-saving solutions. Sensor fan assist can automatically determine the on-site temperature, and make real-time reflections based on sensor signals, automatically adjust the temperature.





ALUMINUM RAISED FLOOR



Structure

The aluminum raised floor is made of die casting aluminum alloy ingot (ADC12), the whole panel is formed at one time. After the aluminum ingots are fused, they are pressure-formed by a high-pressure casting machine. With the characteristics of corrosion resistance and high strength, aluminum raised floor are widely used in clean room, microelectronics industry, semiconductor industry, display industries, precision engineering, etc. There are different types of aluminum raised floor, such as solid, perforated, grating, window.

□□□□□□□□□□

Characteristic

- ●Patent design with high dimensional accuracy
- ●Light weight and excellent loading capacity
- ●Anti static coverings and coatings
- ●Excellent rolling load performance
- ●Excellent fire resistance performance
- ●Recyclable and economic system



□□□□□□□□□□



◆ Ventilation Rate: 23%



◆ Ventilation Rate: 28%



◆ Ventilation Rate: 29%



◆ Ventilation Rate: 33%



◆ Ventilation Rate: 43%



◆ Stainless steel finish

Characteristic

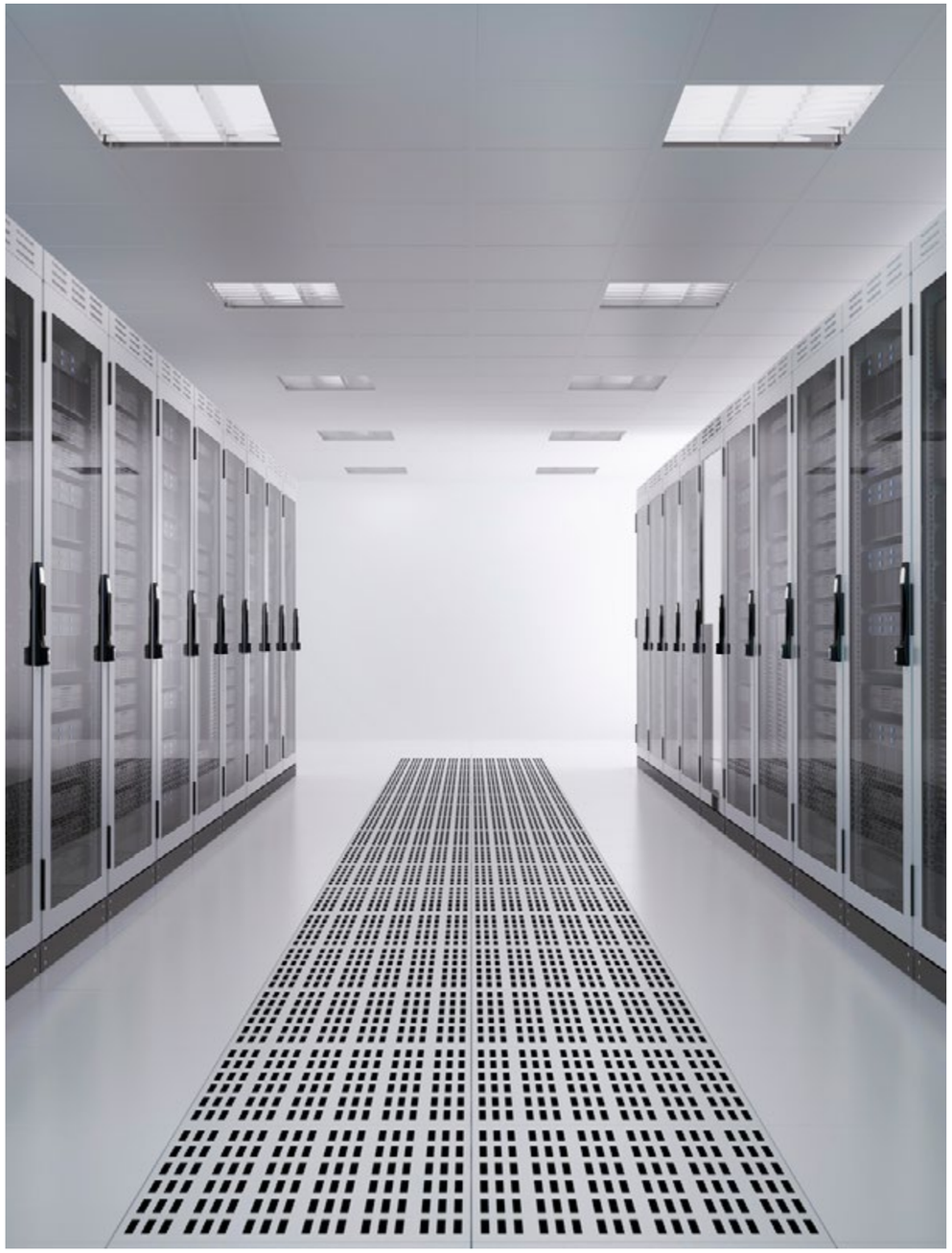
- ● 17%-43% ventilation rate
- ● Custom-made ventilation rate available
- ● Various top covering materials
- ● Light weight and excellent loading capacity
- ● Excellent fire resistance performance
- ● Adjustable damper aavailable



Technical Parameters

Type	Size	Uniform Load	Concentrated Load 0.1”/ 2.5mm Deflection		Rolling Load	Umtimate Load
AL300	600*600mm 35-55mm thick	800kgfm²	300kgf	6.45cm²	100kgf	600kgf 6.45cm²
AL500	600*600mm 35-55mm thick	1250kgfm²	500kgf	6.45cm²	150kgf	1000kgf 6.45cm²
AL700	600*600mm 35-55mm thick	1700kgfm²	700kgf	6.45cm²	200kgf	1400kgf 6.45cm²
AL1000	600*600mm 35-55mm thick	2000kgfm²	1000kgf	6.45cm²	300kgf	2000kgf 6.45cm²
AL1200	600*600mm 35-55mm thick	2200kgfm²	1200kgf	6.45cm²	350kgf	2400kgf 6.45cm²
AL1500	600*600mm 35-55mm thick	2500kgfm²	1500kgf	6.45cm²	400kgf	3000kgf 6.45cm²

Key factors to consider when designing a Data Center.

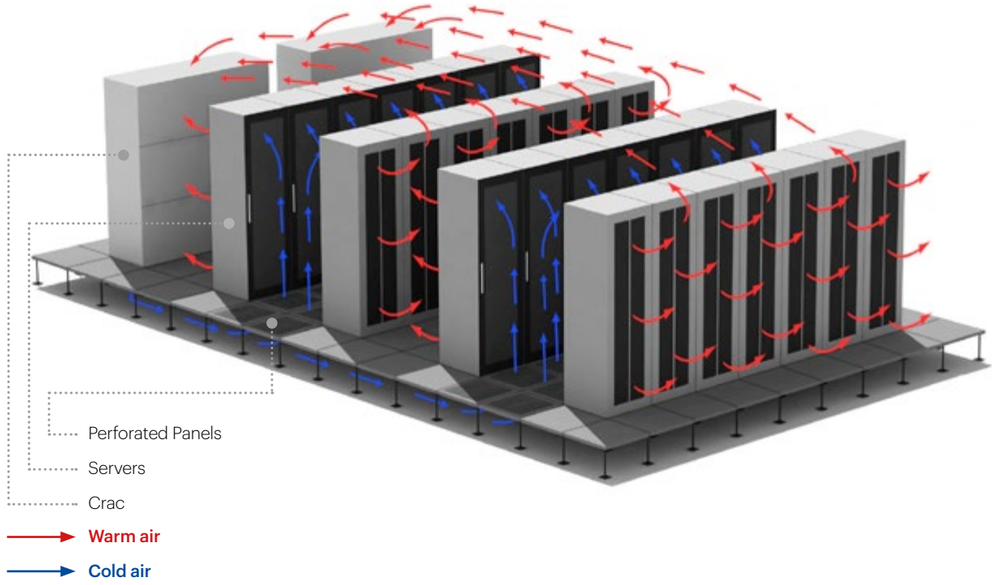


ENERGY EFFICIENCY & AIR DISTRIBUTION COOLING

provide cost-effective solutions to meet the pow- er usage effectiveness average demanded on today's data centers. Optimizing a cooling system in an integrated way in- volves minimizing the net cost of power while ensuring that cooling IT requirements are met.

Computer rooms and data centers use raised access floor systems composed of tiles supported on steel pedestals to deliver cold air to servers through the sub-floor or plenum where air conditioning is channeled. The primary benefit of access flooring, from a cooling stand point, is to deliver cold air where it is needed, with very little effort, by simply swapping a solid tile for a perforated tile.

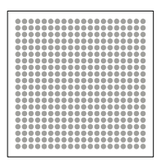
Good uniformity may be realized by arranging per- forated floor tiles (e.g. 25%- open) in rows forming a "cold aisle". Equipment racks are then placed in rows along and facing each long side of the cold aisle, minimizing obstruc- tions and leakage airflow by alternating hot and cold aisles.



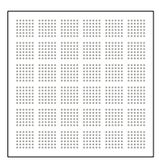
PERFORATED PANELS OPTIONS

Every data center raised access flooring must be completed with GAMAFLOR steel perforated panels for assuring the air flow efficiency in cold aisles.

(42% Open area)



(17% Open area)



Panel can be produced with:

- Air flow control damper (closed)
- Air flow control direction damper

Other perforated panels are possible under request.

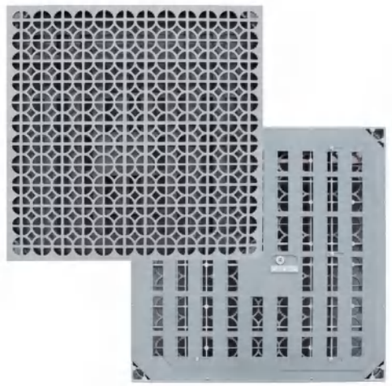
□□□□□□□□□□

Characteristic

- As high as 55% ventilation rate
- Epoxy powder or nickel chrome coating
- Light weight and excellent loading capacity
- Excellent fire resistance performance
- Adjustable dampers are available
- Interchangeable with solid panel



◆ Ventilation Rate: 33%

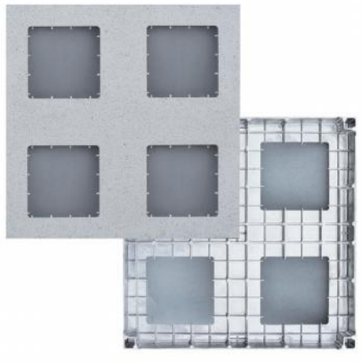


◆ Ventilation Rate: 55%

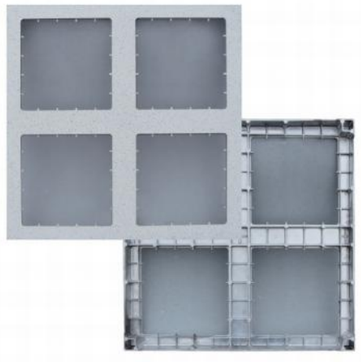
□□□□□□□□

Characteristic

- Patent design with monitor function
- High-strengh acrylic windows
- Custom-made monitor holes’ size and quantity
- Excellent fire resistance performance
- Interchangeable with solid panel



◆ Small Window



◆ Big Window

□□□□□□□□□□□□□□□□□□□□

Structure

Pedestals for aluminum raised floor have different standards and heights. The diameter of tube includes 25mm, 28mm, 32mm, 38mm, 45mm, 60mm, 76mm and 90mm, the height can be from 150mm to 2,500mm. Bracing system can be used in large height situation, or in some special areas, such as walls, return air channels, transportation channels, etc.



Steel pedestal



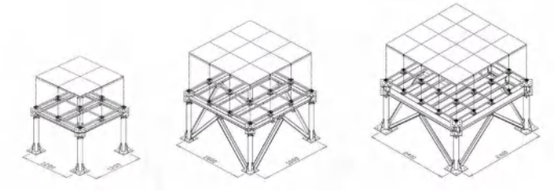
Aluminum pedestal





When various types of pipes or large equipment are under aluminum raised floor, general stringer system cannot meet the installation requirements. In this case, steel beam system can be used, it is able to achieve long span installation.
According to the installation methods, there are two types of beam system. General beam system can meet a certain span in one direction, while heavy duty beam system can reach the span as high as 1200x1200mm, 1800x1800mm and 2400x2400mm.









Accessories match with floor, such as Outlet boxes, electrical plug-in boxes, bracket glue, etc.



Calcium Sulphate/Woodcore Raised Floor Pedestal



Steel Raised Floor Pedestal



Heavy-duty Understructure System



Stringer



Brush Grommet



OutletBox



Electronic Resistance Tester



Panel Lifter



Close Cell Insulation

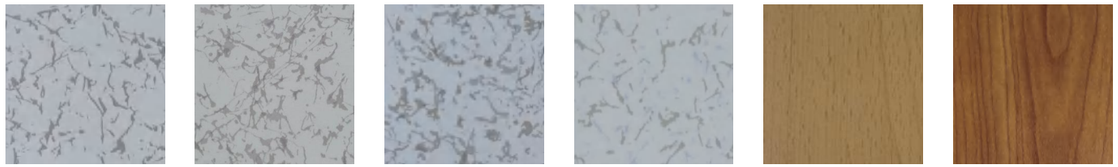


Portable Bandsaw Machine

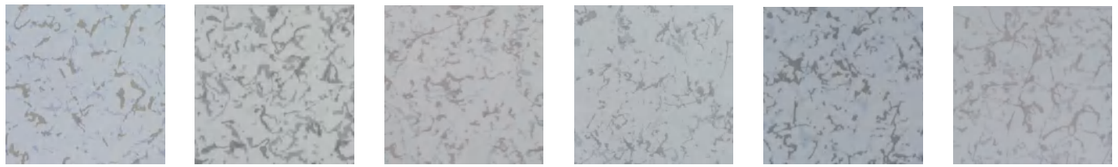


Pedestal Adhesive

Anti static HPL

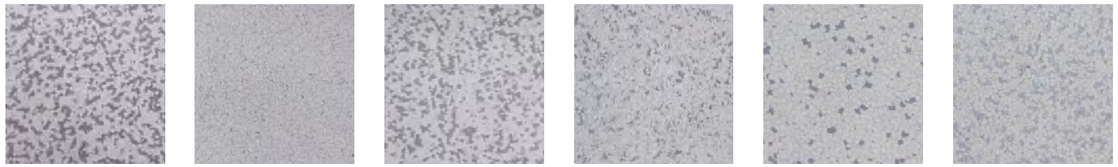


8001 8002 8003 8004 8007 8008

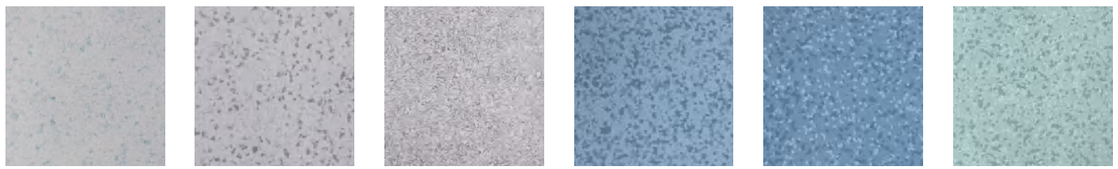


8009 8010 8011 8012 8013 8014

Conductive PVC Tile



XYD-302 XYD-601 XYD-602 XYD-603 XYD-606 XYD-611



XYD-615 XYD-616 XYD-617 XYD-8637 XYD-8638 XYD-8639

Porcelain Tile



6601 6602 6603 6607 6611 6612



6613 6615 6616 6618 6619 6620

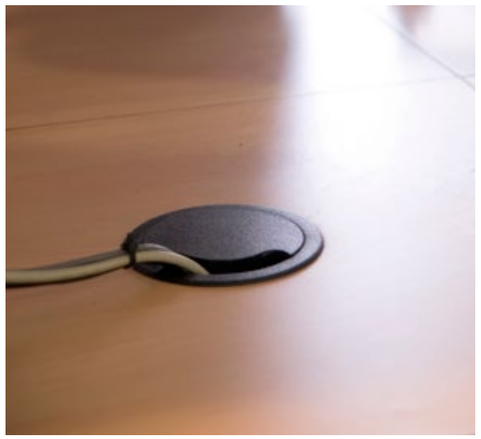
Accessories.

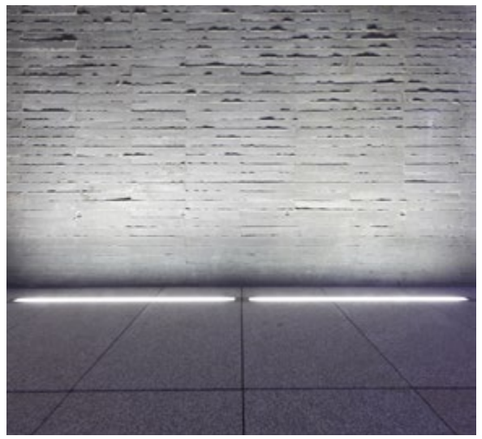
Complementing the Gamaflor Solution, a variety of accessories suit all kind of architectural and technical needs to complete the Raised flooring System installation with solid success.

We offer a complete accommodation line of **ramps**, **access steps** and **hand rails** that ensures access for all is achieved.

Ventilation grilles, **air diffusers**, **electrical boxes**, **panel** and **carpet lifters** finish out and maintain your new or existing installation in optimum conditions from day one.

Access Floor Gamaflor is able to create **flexible** and cost **effective solutions** without ever losing its structural integrity.









Accessible utilities

Ramps
Rail protections
Hand rails
Ventilation grilles
Air diffusers
Electrical boxes
Panel lifters
Carpet lifters
Skirting boards
Steps of stairs
Understeps
Telephone connection boxes



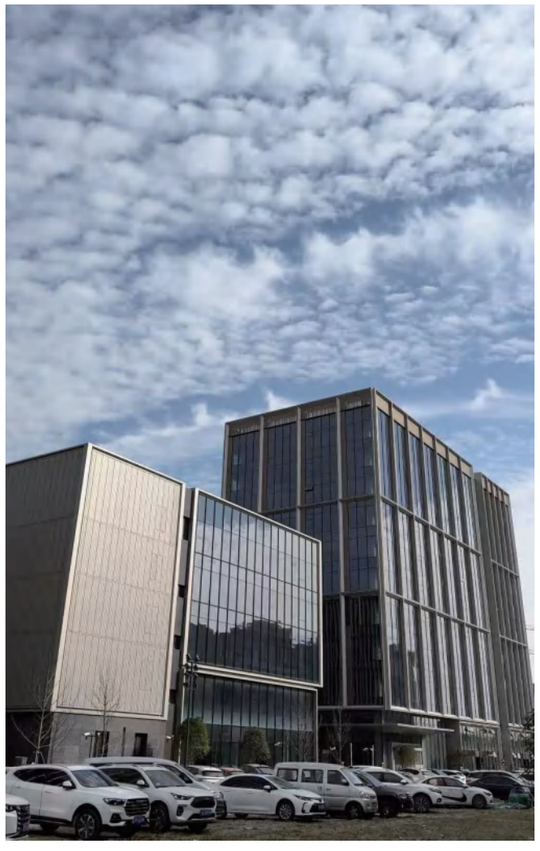
12,000m² Jinan, Shangdong Zhong Yin Plaza Anti-static Steel Raised Floor



17,000m² Zhuhai, Guangdong Financial Building Calcium Sulphate Raised Floor



6,500m² Hunan WM Motor Industrial Park Aluminum Raised Floor



28,000m² Shanghai Zhangjiang Mid77-02 Calcium Sulphate Raised Floor



36,000m² Hefei, Anhui Baowen Center Anti-static Steel Raised Floor



50,000m² Shanghai Zhong Yin Plaza Calcium Sulphate Raised Floor



10,000m² Jinan Railway Station Building Anti-static Ceramic Raised Floor



5,600m² Guangzhou, Guangdong FLCT Aluminum Raised Floor



27,000 m² Shanghai Pudong C1D-01-scaled Calcium Sulphate Raised Floor



54,000m² Guangzhou, Guangdong Lvshou Group Calcium Sulphate Raised Floor



55,000m² Guangzhou Financial Centre Calcium Sulphate Raised Floor



28,000m² Yiwu, Zhejiang Digital Trade Industrial Park Anti-static Raised Floor



28,000m² Singapore Metro Bare Finish Steel Rised Floor



8,600m² Luqa, Malta SkyParks Business Center Marble/Ceramic Tile Calcium Sulphate Raised Floor



12,000m² Istanbul, Turkey Ümraniye and Esenler Tax Buildings Homogeneous Flooring Calcium Sulphate Raised Floor



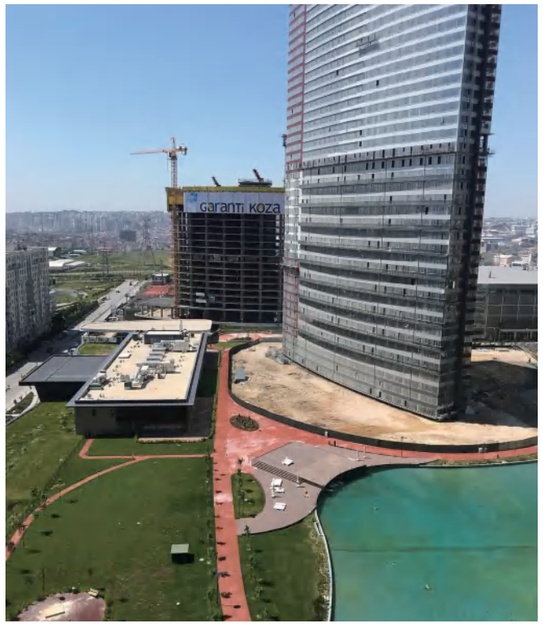
3,200m² Tashkent, Uzbekistan Enter Engineering Conductive PVC Tiles Calcium Sulphate Raised Floor



2,600m² Buraydah, Saudi Arabia Qassim University Antistatic HPL Steel Rised Floor



31,000m² Doha, Qatar Al Fardan Towers Bare Finish Steel Rised Floor



26,000m² Istanbul, Turkey Koza Park Encapsulated Calcium Sulphate Raised Floor



3,800m² Nizhniy Novgorod, Russia Russia Research Business Center Conductive PVC Tiles Calcium Sulphate Raised Floor



13,000m² Makati, Philippines City Bank Tower Anti-static HPL Steel Rised Floor



34,000m² Dubai, UAE Dubai Design District (D3) Bare Finish Steel Rised Floor



26,000m² Lagos, Nigeria Azuri Lagos Eko Atlantic Ceramic Finish Calcium Sulphate Raised Floor



18,000m² Lusail, Qatar Al Sendian Tower Bare Finish Steel Rised Floor