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# TITANFLOR CATALOGUE

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# COMPANY PROFILE



Changzhou Titan Decoration Materials Co., Ltd is the professional raised floor manufacturer for industrial and commercial purpose. Our products are widely used in office buildings, data centers, control rooms, clean rooms, etc.

We are producing six series of raised floor: steel cement raised floor, calcium sulphate raised floor, chip-board raised floor, aluminum raised floor, perforated panels and raised floor accessories. Since 2013, we have been upgrading the automation of production lines. This increased our production output and improved product quality stability. We are one of the few manufacturers that can support difficult and super large projects. Our company passed ISO9001 and ISO14001 certification, products are certified by CE, LEED, SGS, TUV, INTERTEK based on CISCA, MOB and EN standard.

We've been stuck to our core values: we are not just producing raised floor, we are producing values for our customers. Titanflor products are exported to more than 60 countries and regions in the world. Our top export areas of steel cement raised floor are Southeast Asia, Gulf area and America; top export areas of calcium sulphate & chipboard raised floor are Europe, Turkey and Russia; top export areas of aluminum raised floor are Southeast Asia, Korea and Japan.

With the combination of technical reduction and team work, Titan stick to our core value: We not only produce products, but also provide values for customers.

# CERTIFICATION & PRODUCTION



Steel Structure Production



Epoxy Powder Painting



Aluminum Die-casting



Calcium Sulphate Board Production



Polishing and Grinding



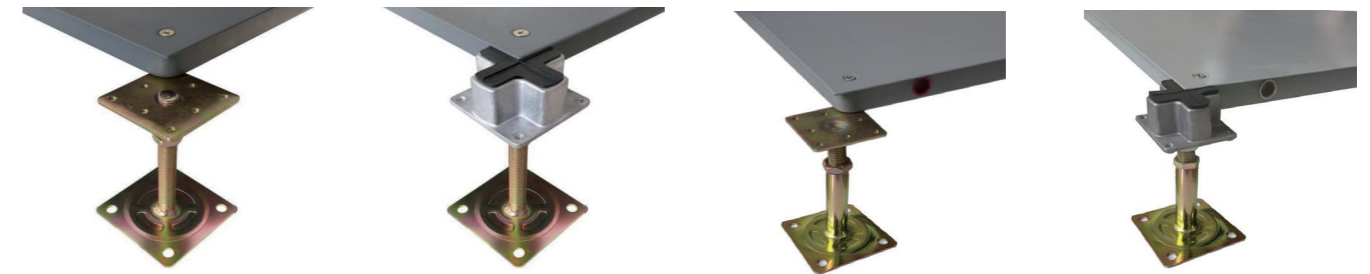
Showroom

# OA600 BARE STEEL RAISED FLOOR



## Characteristic

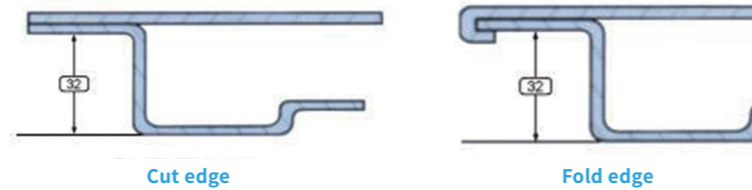
- Excellent loading performance
- Light weight cement
- Completely noncombustible
- Black cathodic epoxy painting for life-time protection
- Unique seamless edge banding technique



Corner lock system

## 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 covered with square carpets/PVC carpets and other decoration materials, which are easy to clean.



## 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.



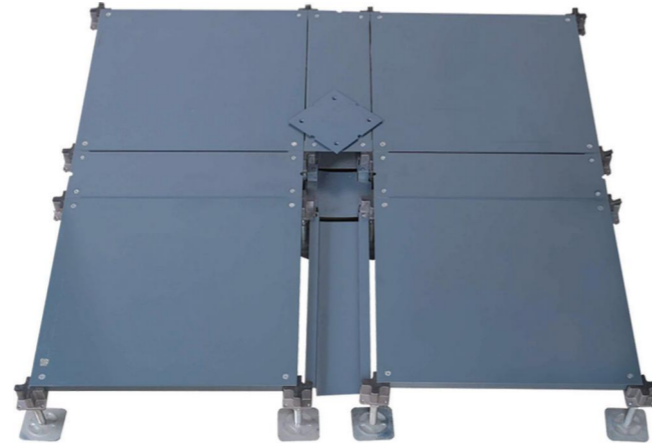
## Technical Parameters

Type	Size	Uniform Load	Concentrated Load		Rolling Load		Impact load	Ultimate Load
			0.1" / 2.5mm Deflection		10 Times	10000 Times		
FS662	600*600*33mm	14.71KN/m <sup>2</sup>	2.94KN	300KG	2.45KN	2.00KN	100LB/45KG	8.85KN
FS800	600*600*33mm	17.78KN/m <sup>2</sup>	3.56KN	363KG	2.94KN	2.45KN	100LB/45KG	11.25KN
FS1000	600*600*33mm	22.22KN/m <sup>2</sup>	4.45KN	454KG	3.56KN	2.67KN	150LB/68KG	14.50KN
FS1250	600*600*33mm	27.78KN/m <sup>2</sup>	5.56KN	567KG	4.45KN	3.56KN	150LB/68KG	18.36KN
FS1500	600*600*33mm	33.34KN/m <sup>2</sup>	6.68KN	680KG	5.56KN	4.45KN	175LB/79KG	22.17KN
FS2000	600*600*33mm	44.45KN/m <sup>2</sup>	8.89KN	907KG	6.68KN	5.56KN	175LB/79KG	29.42KN
FS2500	600*600*33mm	57.79KN/m <sup>2</sup>	11.11KN	1134KG	8.89KN	6.68KN	200LB/91KG	37.34KN

## OA500 BARE STEEL RAISED FLOOR

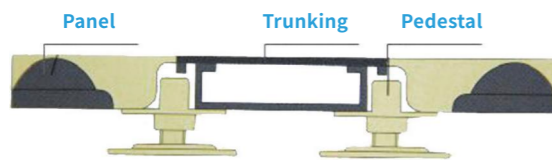
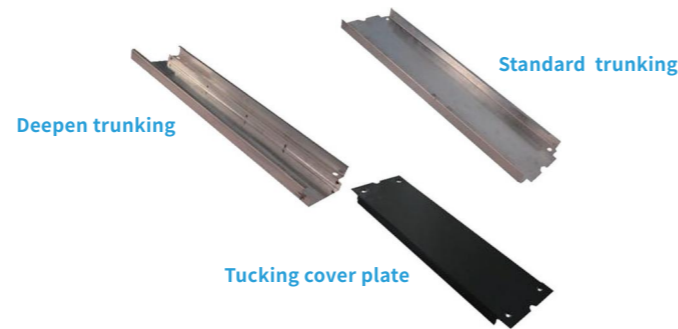
### Structure

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.

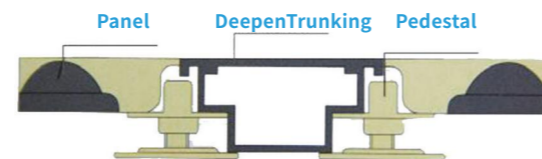


### Characteristic

- 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	Ultimate Load
			0.1" / 2.5mm Deflection	204KG	10 Times	10000 Times		
FS450	500*500*28mm	10.00KN/m <sup>2</sup>	2.00KN	204KG	1.78KN	1.56KN	75LB/34KG	6.89KN
FS662	500*500*28mm	14.71KN/m <sup>2</sup>	2.94KN	300KG	2.45KN	2.00KN	100LB/45KG	8.85KN
FS800	500*500*28mm	17.78KN/m <sup>2</sup>	3.56KN	363KG	2.94KN	2.45KN	100LB/45KG	11.25KN
FS1000	500*500*28mm	22.22KN/m <sup>2</sup>	4.45KN	454KG	3.56KN	2.67KN	150LB/68KG	14.50KN
FS1250	500*500*28mm	27.78KN/m <sup>2</sup>	5.56KN	567KG	4.45KN	3.56KN	150LB/68KG	18.36KN

## LOW PROFILE STEEL RAISED FLOOR

### Structure

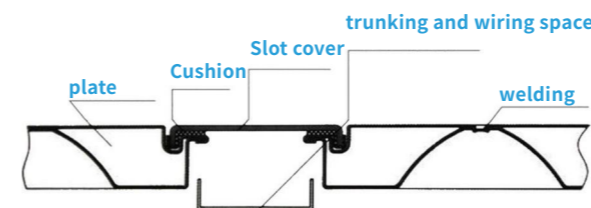
Low profile raised floor is the traditional network breakthrough and the innovation of the floor. In addition to possess the advantages of ordinary network floor, it has wider usage range. Installation is more convenient, more environmentally friendly. It can be widely used in Japan, South Korea, Taiwan.



Assembly diagram



Adjustable bracket



trunking and wiring space

### 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	Ultimate Load
			0.1" / 2.5mm Deflection	204KG	10 Times	10000 Times		
FS450	500*500*25mm	10.00KN/m <sup>2</sup>	2.00KN	204KG	1.78KN	1.56KN	75LB/34KG	6.89KN
FS662	500*500*25mm	14.71KN/m <sup>2</sup>	2.94KN	300KG	2.45KN	2.00KN	100LB/45KG	8.85KN
FS800	500*500*25mm	17.78KN/m <sup>2</sup>	3.56KN	363KG	2.94KN	2.45KN	100LB/45KG	11.25KN

# ANTI-STATIC STEEL RAISED FLOOR

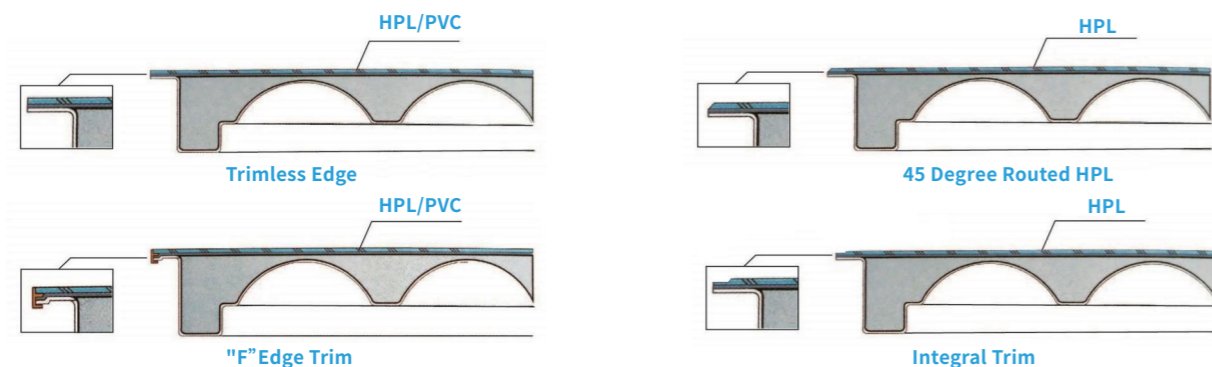


## Structure

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.

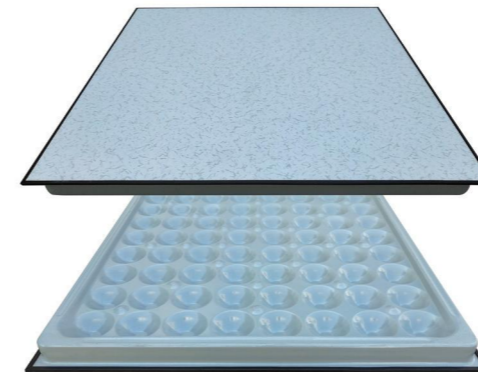
## Application

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.



## 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	Ultimate Load
			0.1" / 2.5mm Deflection	300KG	10 Times	10000 Times		
FS662	600*600*35mm	14.71KN/m <sup>2</sup>	2.94KN	300KG	2.45KN	2.00KN	100LB/45KG	8.85KN
FS800	600*600*35mm	17.78KN/m <sup>2</sup>	3.56KN	363KG	2.94KN	2.45KN	100LB/45KG	11.25KN
FS1000	600*600*35mm	22.22KN/m <sup>2</sup>	4.45KN	454KG	3.56KN	2.67KN	150LB/68KG	14.50KN
FS1250	600*600*35mm	27.78KN/m <sup>2</sup>	5.56KN	567KG	4.45KN	3.56KN	150LB/68KG	18.36KN
FS1500	600*600*35mm	33.34KN/m <sup>2</sup>	6.68KN	680KG	5.56KN	4.45KN	175LB/79KG	22.17KN
FS2000	600*600*35mm	44.45KN/m <sup>2</sup>	8.89KN	907KG	6.68KN	5.56KN	175LB/79KG	29.42KN
FS2500	600*600*35mm	57.79KN/m <sup>2</sup>	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	Ultimate Load
			0.1" / 2.5mm Deflection	10 Times	10000 Times	10 Times		
FS1000	602*602*40mm	22.22KN/m <sup>2</sup>	4.45KN	454KG	3.56KN	2.67KN	150LB/68KG	14.50KN
FS1250	602*602*40mm	27.78KN/m <sup>2</sup>	5.56KN	567KG	4.45KN	3.56KN	150LB/68KG	18.36KN
FS1500	602*602*40mm	33.34KN/m <sup>2</sup>	6.68KN	680KG	5.56KN	4.45KN	175LB/79KG	22.17KN
FS2000	602*602*40mm	44.45KN/m <sup>2</sup>	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

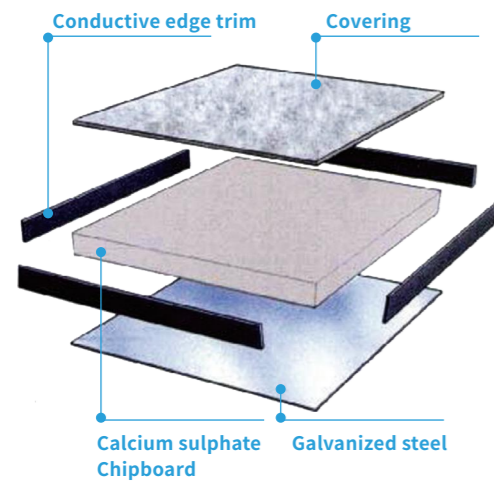
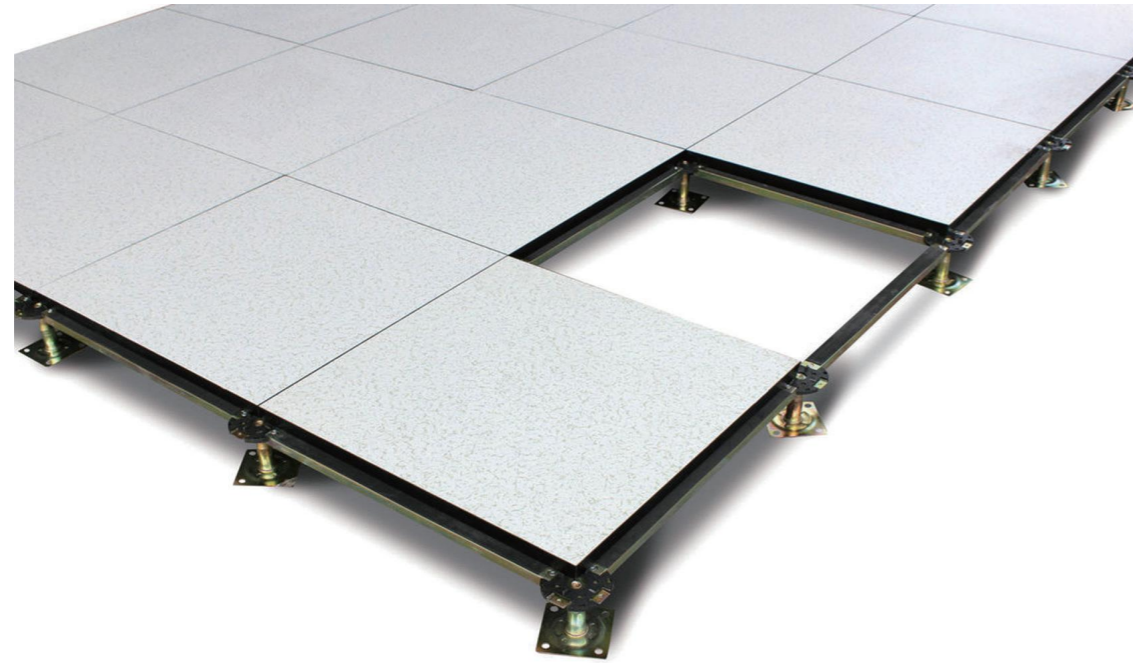
Office building, meeting room, commercial & industrial bureau and areas that have high requirements for fire-proof, sound-proof, usually used with square carpets.

### Characteristic

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



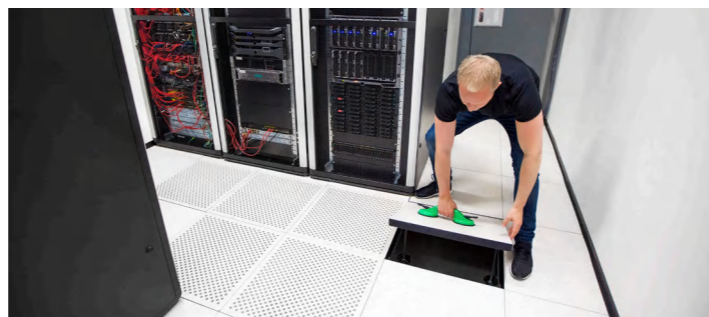
# CALCIUM SULPHATE RAISED FLOOR WOOD-CORE RAISED FLOOR



## 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.



## 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



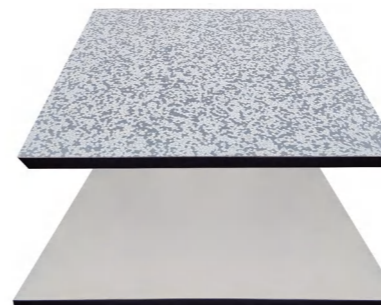
Anti static HPL finish



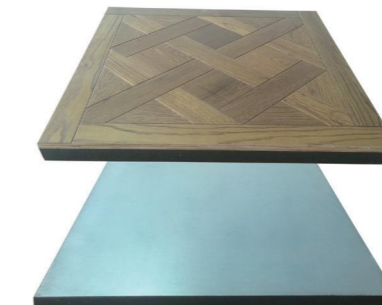
Vinyl flooring finish



Porcelain finish



Conductive PVC tile



Wood flooring finish



Steel finish

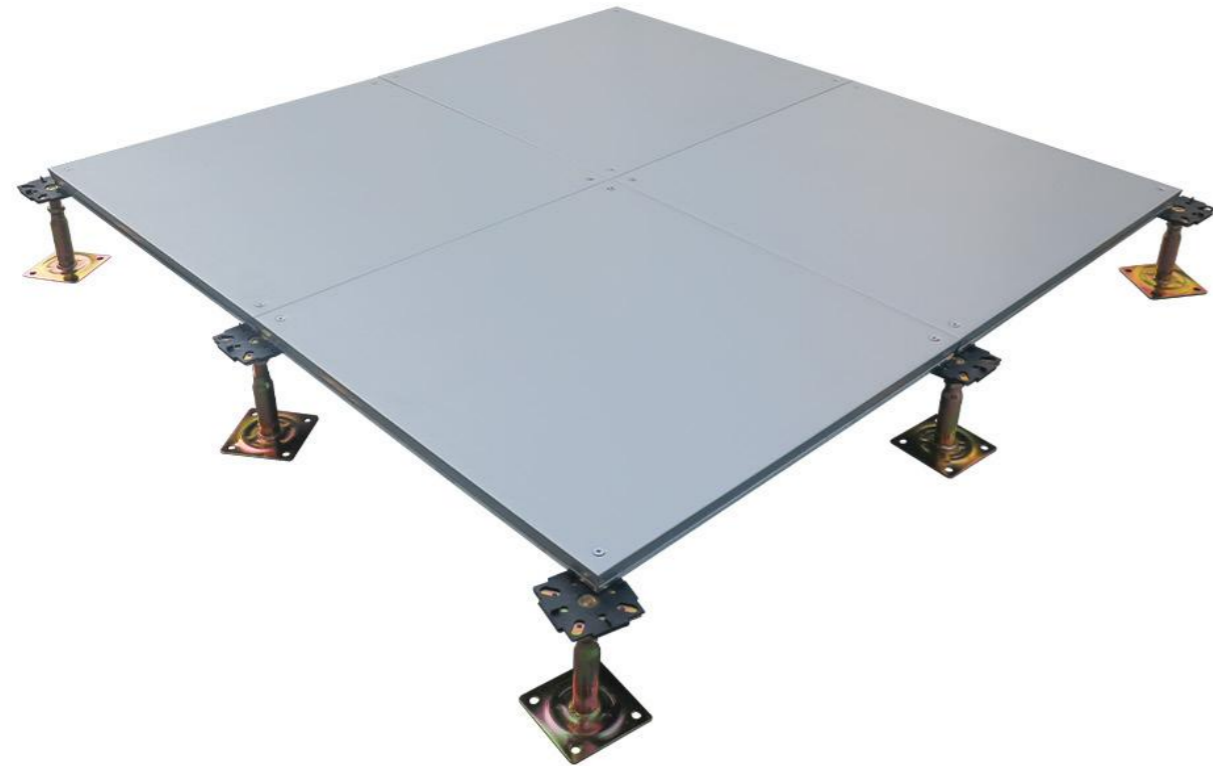
## Technical Parameters

Type	Size	Uniform Load	Concentrated Load		Rolling Load		Impact load	Ultimate Load
			0.1" / 2.5mm Deflection	10 Times	10000 Times			
FS800		17.78KN/m <sup>2</sup>	3.56KN	363KG	2.94KN	2.45KN	100LB/68KG	11.25KN
FS1000	Calcium sulphate board: 600*600*28-38mm	22.22KN/m <sup>2</sup>	4.45KN	454KG	3.56KN	2.67KN	150LB/68KG	14.50KN
FS1250		27.78KN/m <sup>2</sup>	5.56KN	567KG	4.45KN	3.56KN	150LB/68KG	18.36KN
FS1500	Chipboard: 600*600*30/38mm	33.34KN/m <sup>2</sup>	6.68KN	680KG	5.56KN	4.45KN	175LB/79KG	22.17KN
FS2000		44.45KN/m <sup>2</sup>	8.89KN	907KG	6.68KN	5.56KN	175LB/79KG	29.42KN
FS2500		57.79KN/m <sup>2</sup>	11.11KN	1134KG	8.89KN	6.68KN	200LB/91KG	37.34KN

## Application

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

# 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

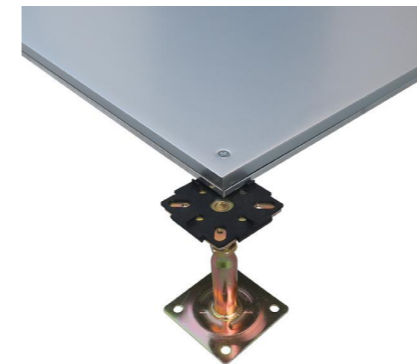


## Application

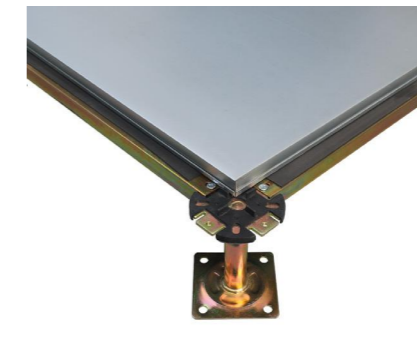
Office building, intelligent office environment, meeting room, commercial and industrial bureau, government, fields with wiring requirements, usually used with square carpet.

## 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



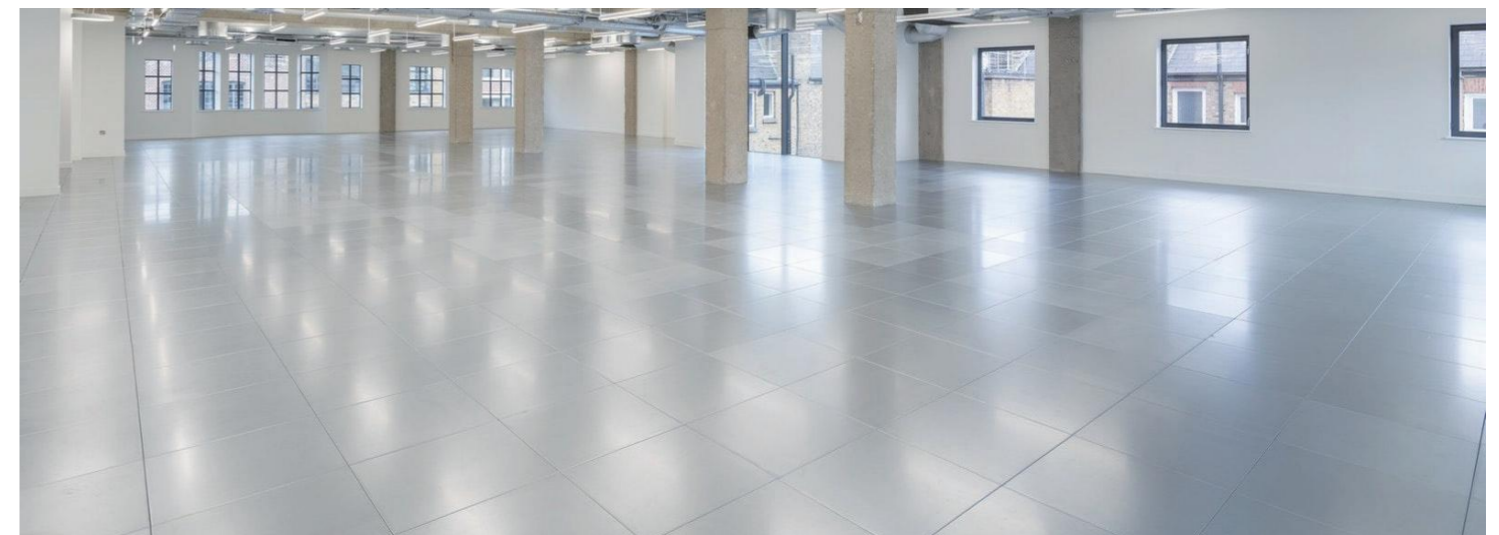
Corner lock system



Stringer system



Free-standing system



## Technical Parameters

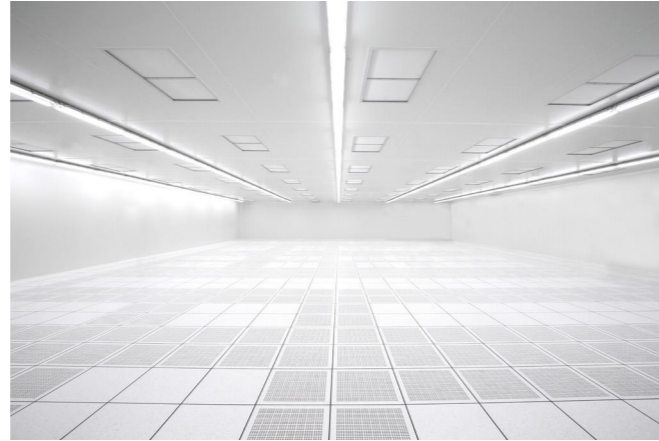
Type	Size	Uniform Load	Concentrated Load		Rolling Load		Impact load	Ultimate Load
			0.1" / 2.5mm Deflection	10 Times	10000 Times			
FS800		17.78KN/m <sup>2</sup>	3.56KN	363KG	2.94KN	2.45KN	100LB/45KG	11.25KN
FS1000	Calcium sulphate: 600*600*26/30mm	22.22KN/m <sup>2</sup>	4.45KN	454KG	3.56KN	2.67KN	150LB/68KG	14.50KN
FS1250	Woodcore: 600*600*31mm	27.78KN/m <sup>2</sup>	5.56KN	567KG	4.45KN	3.56KN	150LB/68KG	18.36KN
FS1500		33.34KN/m <sup>2</sup>	6.68KN	680KG	5.56KN	4.45KN	175LB/79KG	22.17KN



# STEEL PERFORATED PANEL

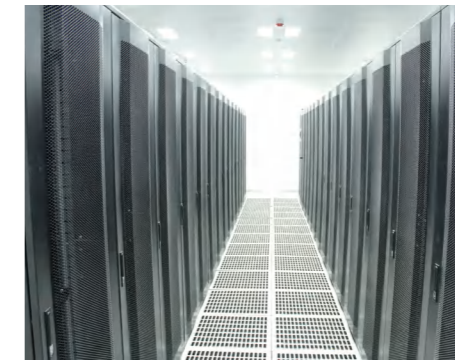
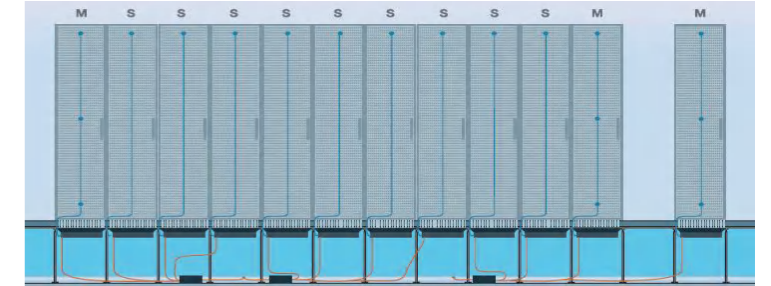
## Structure

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%.



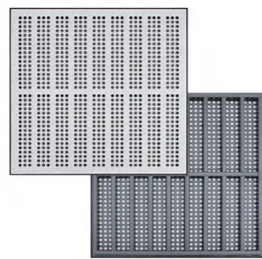
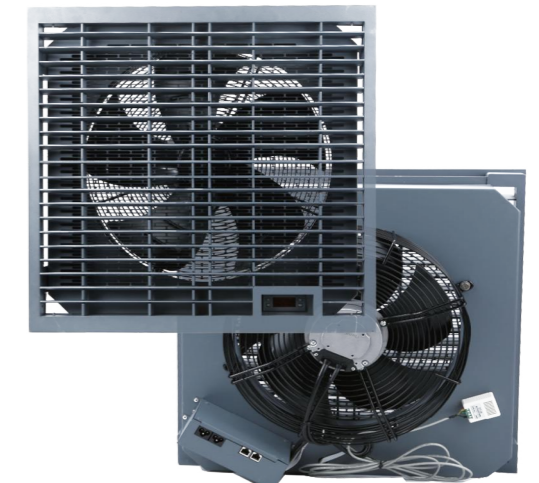
## Application

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

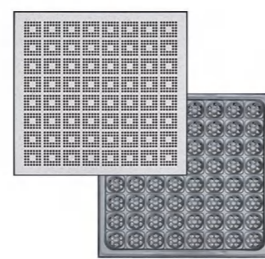


## Characteristic

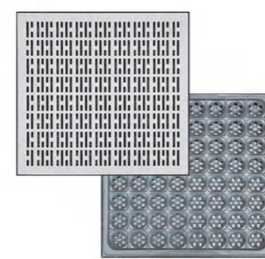
In order to face the challenges of high density cabinets and thermal load in data center, Titanflor has developed a series of high-efficiency and energy-saving solutions. Sensor fan assist can automatically determine the on-site temperature, and make real-time reflections based on sensor signals, automatically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



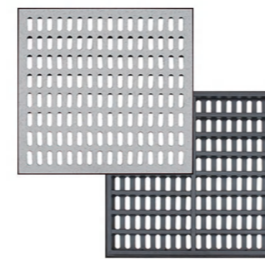
◆ Ventilation Rate: 20%



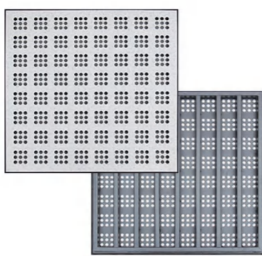
◆ Ventilation Rate: 22%



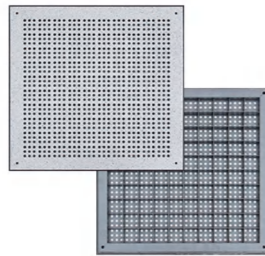
◆ Ventilation Rate: 23%



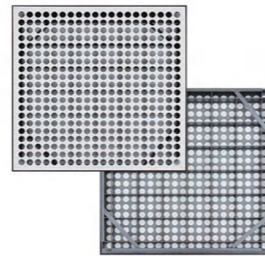
◆ Ventilation Rate: 35%



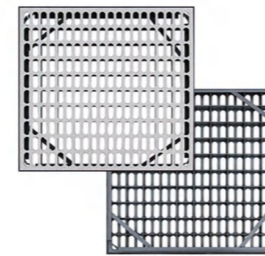
◆ Ventilation Rate: 25%



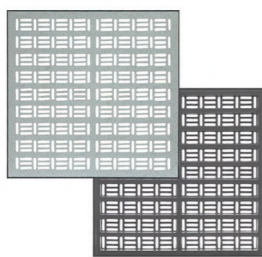
◆ Ventilation Rate: 32%



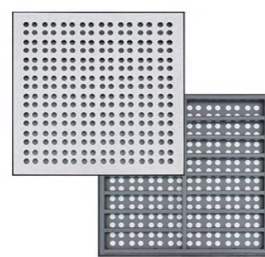
◆ Ventilation Rate: 46%



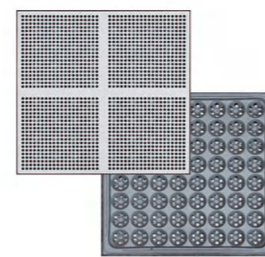
◆ Ventilation Rate: 55%



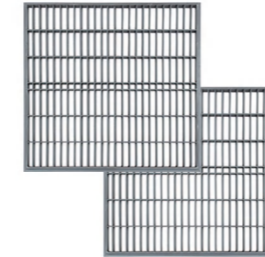
◆ Ventilation Rate: 23%



◆ Ventilation Rate: 25%



◆ Ventilation Rate: 25%



◆ Ventilation Rate: 75%

# ALUMINUM RAISED FLOOR



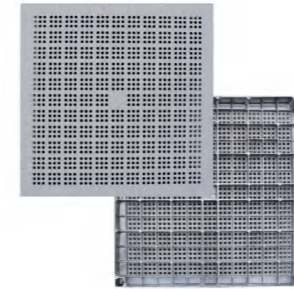
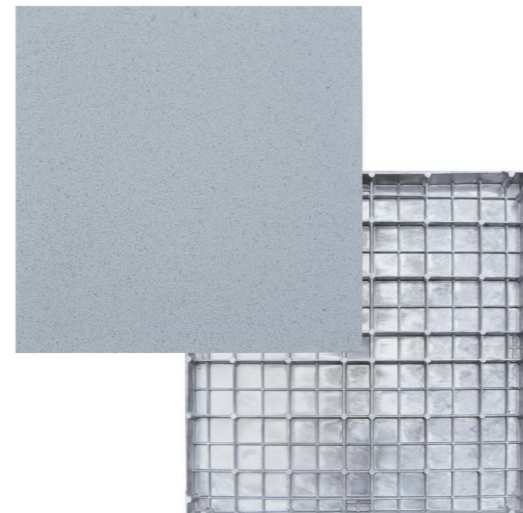
## Structure

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.

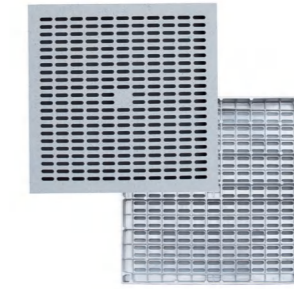


## Characteristic

- 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



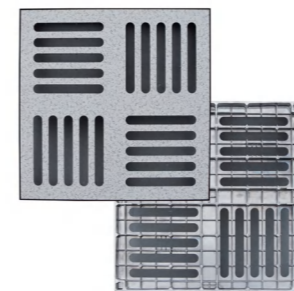
◆ Ventilation Rate: 23%



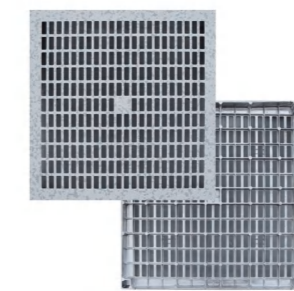
◆ Ventilation Rate: 28%



◆ 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 available



## Technical Parameters

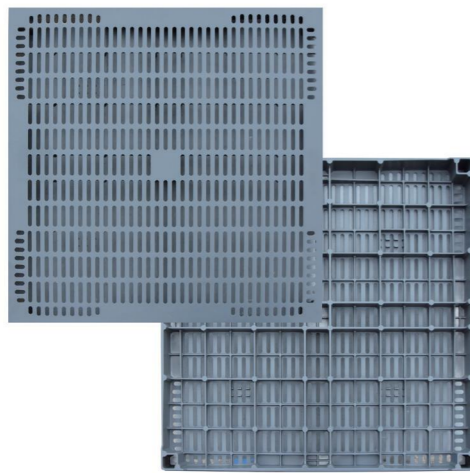
Type	Size	Uniform Load	Concentrated Load		Rolling Load	Ultimate Load
			0.1" / 2.5mm Deflection			
AL300	600*600mm 35-55mm thick	800kgfm <sup>2</sup>	300kgf	6.45cm <sup>2</sup>	100kgf	600kgf 6.45cm <sup>2</sup>
AL500	600*600mm 35-55mm thick	1250kgfm <sup>2</sup>	500kgf	6.45cm <sup>2</sup>	150kgf	1000kgf 6.45cm <sup>2</sup>
AL700	600*600mm 35-55mm thick	1700kgfm <sup>2</sup>	700kgf	6.45cm <sup>2</sup>	200kgf	1400kgf 6.45cm <sup>2</sup>
AL1000	600*600mm 35-55mm thick	2000kgfm <sup>2</sup>	1000kgf	6.45cm <sup>2</sup>	300kgf	2000kgf 6.45cm <sup>2</sup>
AL1200	600*600mm 35-55mm thick	2200kgfm <sup>2</sup>	1200kgf	6.45cm <sup>2</sup>	350kgf	2400kgf 6.45cm <sup>2</sup>
AL1500	600*600mm 35-55mm thick	2500kgfm <sup>2</sup>	1500kgf	6.45cm <sup>2</sup>	400kgf	3000kgf 6.45cm <sup>2</sup>



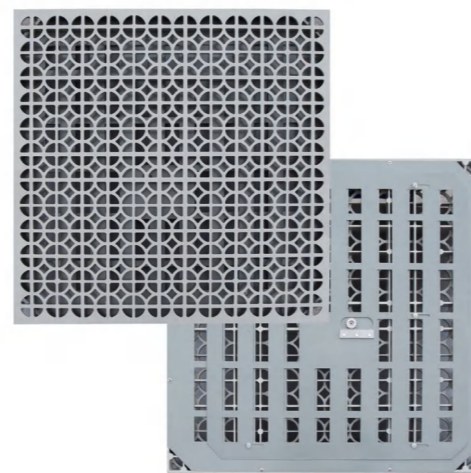
Characteristic

- 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%



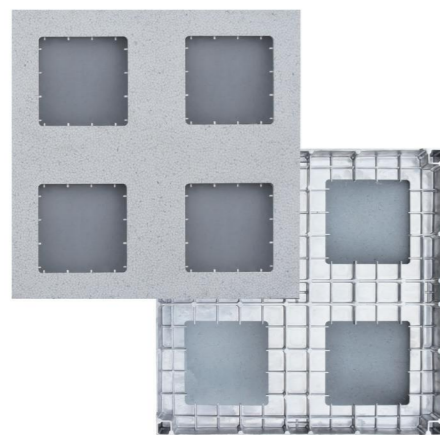
◆ Ventilation Rate: 55%



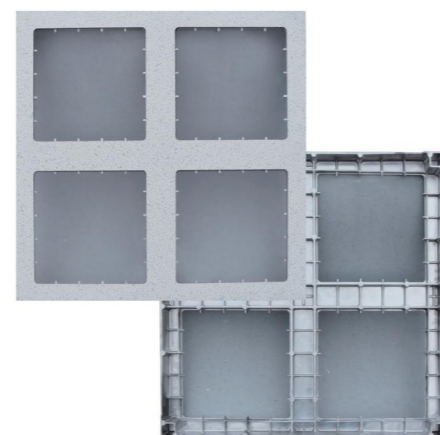
Characteristic

- Patent design with monitor function
- High-strength 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.



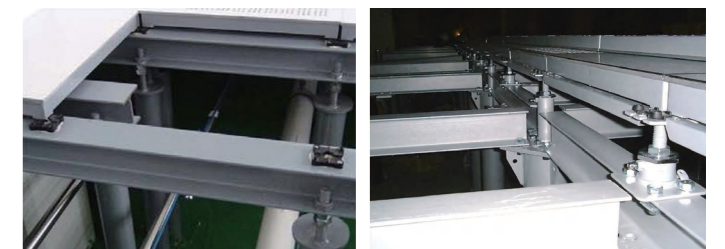
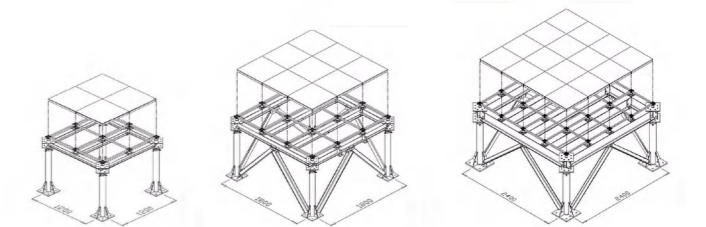
Steel pedestal



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



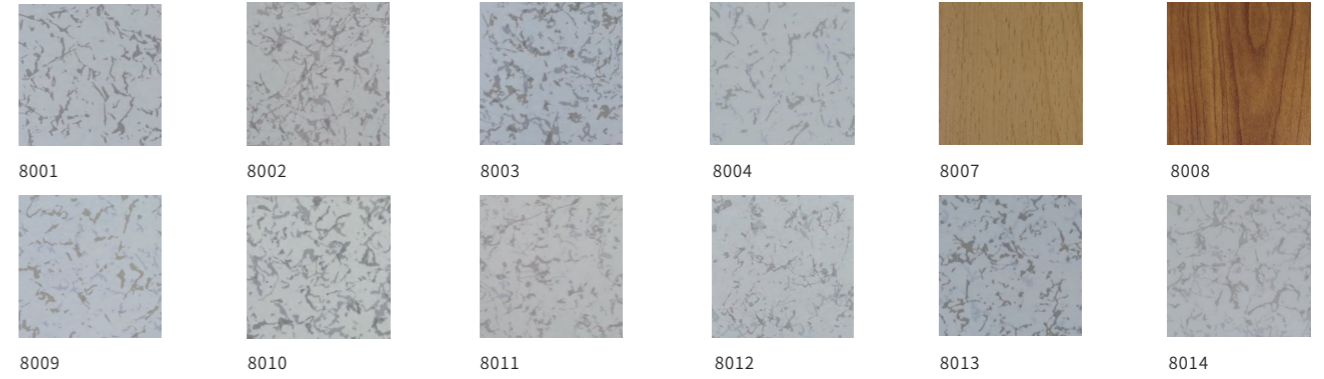
Portable Bandsaw Machine



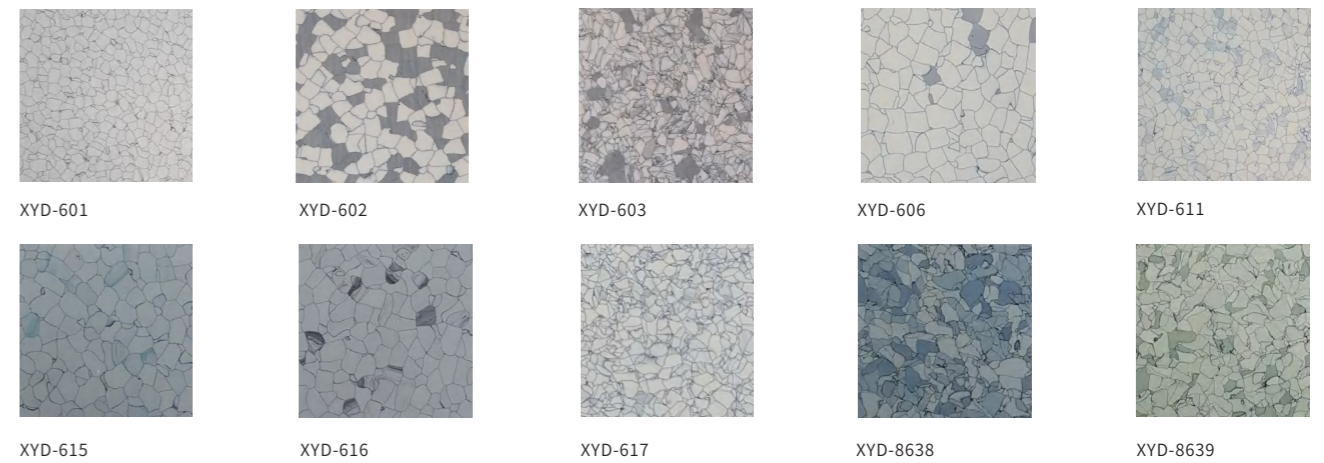
Pedestal Adhesive



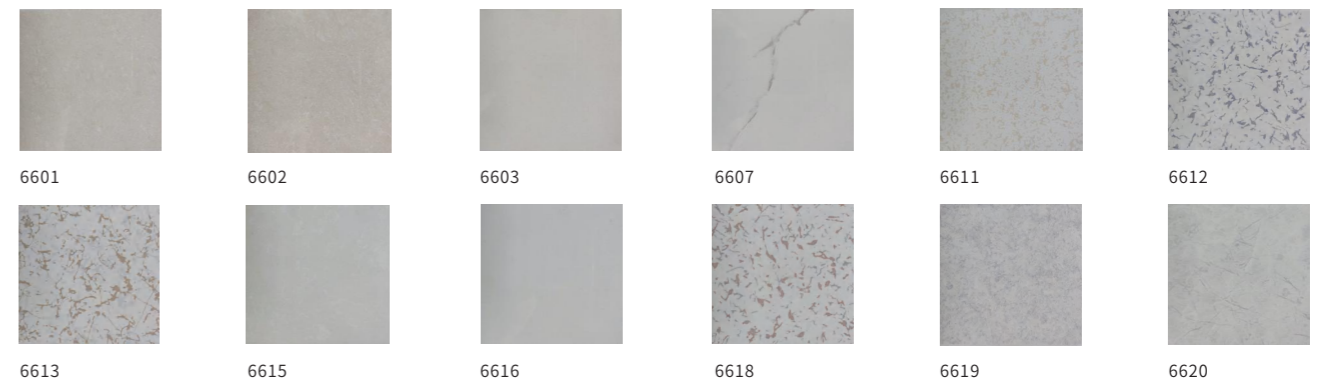
Anti static HPL



Conductive PVC Tile



Porcelain Tile





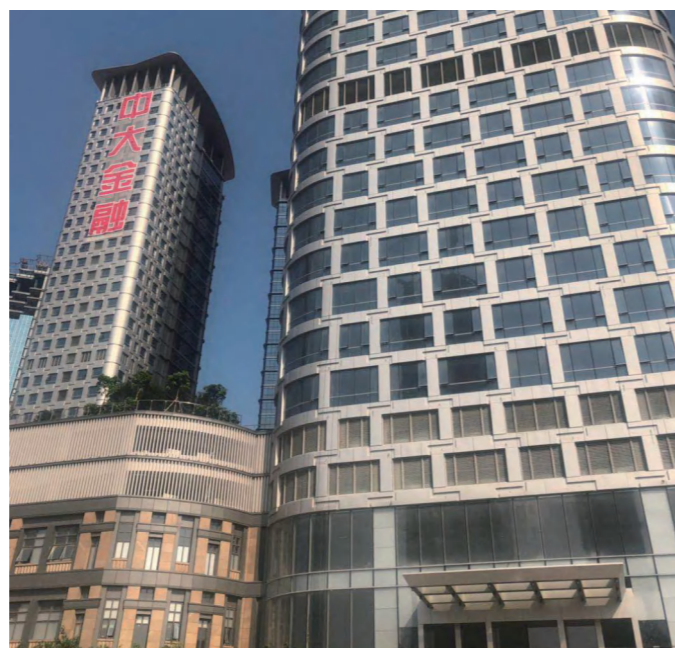
Guangzhou Zhongke Poly Plaza 14,000m<sup>2</sup>



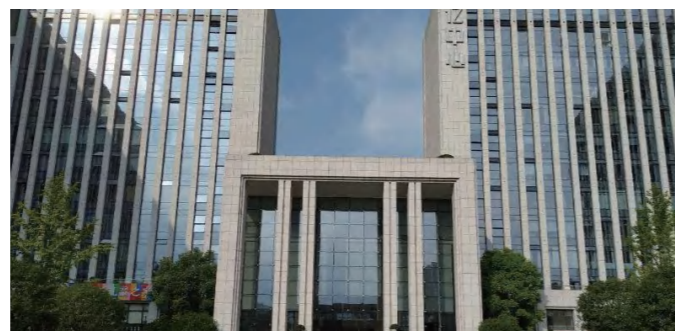
Nansha Science Exhibition Hall 12,000m<sup>2</sup>



Zhuhai Financial Building 17,000m<sup>2</sup>



Boyu Building 120,000m<sup>2</sup>



Hangzhou Fuyi Center 8,000m<sup>2</sup>



Singapore Metro, Singapore  
Anti static raised floor(HPL finish), 28,000m<sup>2</sup>



Azuri Lagos Eko Atlantic, Nigeria  
Calcium sulphate panel(ceramic finish), 26,000m<sup>2</sup>



Umraniye & Esenler Tax Building, Turkey  
Calcium sulphate panel(homogeneous vinyl), 12,000m<sup>2</sup>



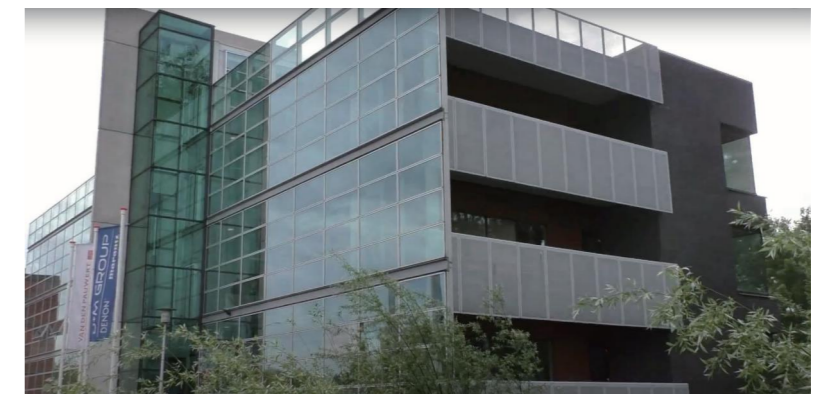
Alfandan Towers, Qatar  
Steel raised floor(carpet finish), 31,000m<sup>2</sup>



Research Business Center, Russia  
Steel perforated panel(conductive vinyl), 3,800m<sup>2</sup>



Mazaya Business Avenue, UAE  
Steel raised floor(carpet finish), 45,000m<sup>2</sup>



Enter Engineer, Uzbekistan  
Calcium sulphate panel(conductive vinyl), 3,200m<sup>2</sup>



Skyparks Business Center, Malta  
Calcium sulphate panel(ceramic finish), 8,600m<sup>2</sup>



Biel Crystal, Hongkong  
Aluminum raised floor(conductive vinyl), 6,400m<sup>2</sup>