**bama**®
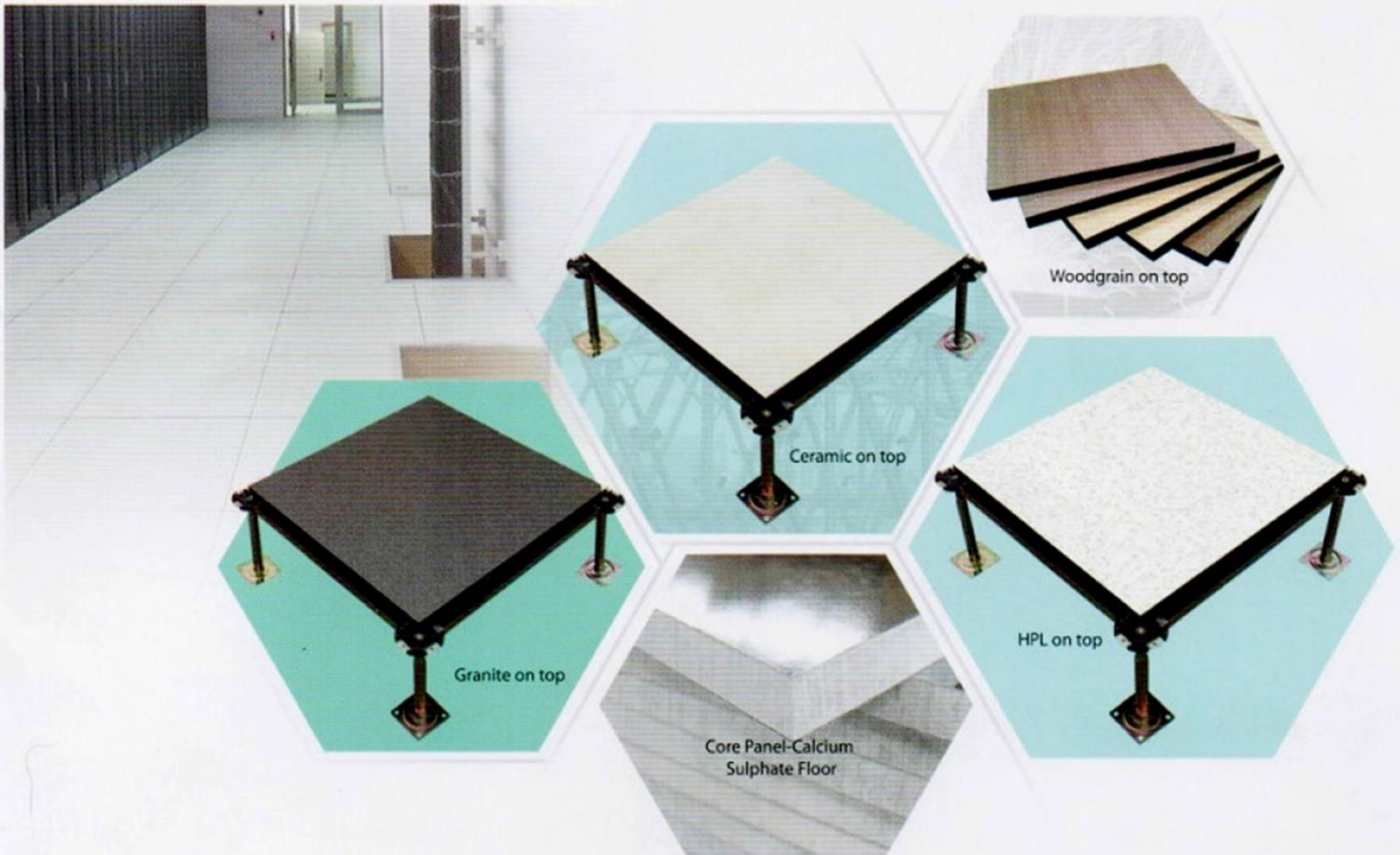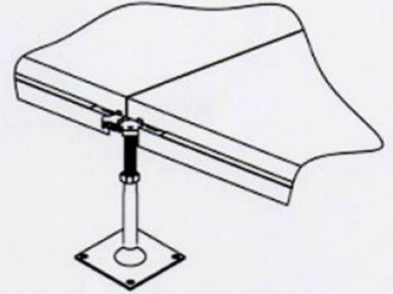
شركة بامردوف للديكور
**BAMARDOUF DECORATION CO.**

# ACCESS RAISED FLOORS

# Raised floor system characteristics

- 600x600x32mm tiles with HPL finish and steel sheet bottom
- Panel – Reinforced calcium sulphate panel, steel sheet bottom, surrounding edge trim protection against damage and humidity, edges inclined.
- Pedestal – Precise height adjustable, from galvanized steel, precision threaded bolt
- Gasket – From plastic material, for perfect panel fixing
- Non-combustible & Fire proof system
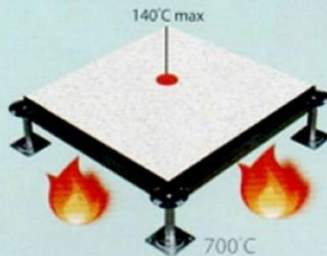- Antistatic panels, high dimensional precision, strong loading capacity.

Woodgrain on top

Ceramic on top

Granite on top

Core Panel-Calcium Sulphate Floor

HPL on top

## Technical Specification

- Calcium Sulphate Raised Floor

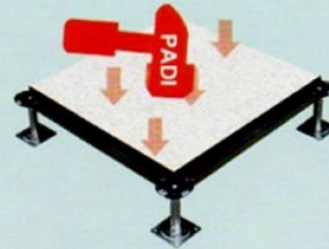| Type | International | Size (mm) | Fire Performance | Concentrated load | | | N Impact load | N Ultimate load | N/m² Uniform load | N Rolling load | |
|------|--------------|-----------|------------------|-----|-----|-----|---------------|-----------------|-------------------|----------------|-----|
| | | | | LB | N | Kg | | | | 10 Times | 10000 Times |
| UL-1001 | FS800 | 600x600x32 | A | ≥800 | ≥3560 | ≥363 | ≥536 | ≥10680 | ≥16100 | 3560 | 2670 |
| UL-1002 | FS1000 | 600x600x32 | A | ≥1000 | ≥4450 | ≥450 | ≥670 | ≥13350 | ≥23000 | 4450 | 3560 |
| UL-1004 | FS1500 | 600x600x32 | A | ≥1500 | ≥6660 | ≥680 | ≥1005 | ≥19980 | ≥34500 | 6675 | 5340 |

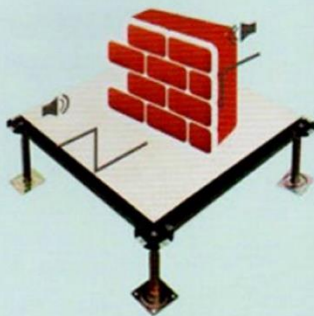# The Advantages of Calcium Sulphate Raised Access Floor



140°C max
700°C

## Fire protection, thermal insulation, non-combustible

Because of its materials, the calcium sulphate floor has fire protection properties, thermal insulation performance and is non-combustible. It does not produce harmful gases.
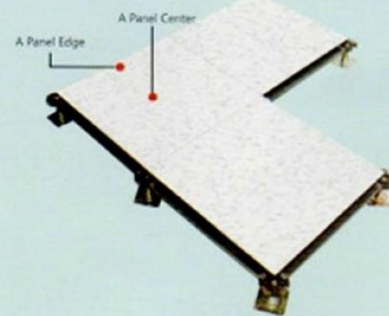


PADI

## High physical and mechanical properties

The calcium sulphate floor's substrate is more than 85%, has reached international standards, the products have passed CE certification.



## Sound proofing & Sound Insulation

The calcium sulphate mixed with the fibre can prevent the vibration, which can reduce the vibration of the building structures from the shaking source, lessen the sound of vibration to get proper soundproofing.



A Panel Center
A Panel Edge

## Concentrated load, Square point load

The FS1500 Calcium sulphate floor can reach a point load of over 680kg which is over 6660N.
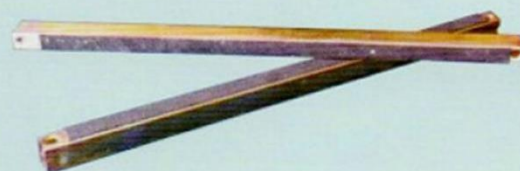


## Pedestal

Steel round head, size: M90*3mm

Gasket on top: fixing plate, reducing pressure, proofing soundM18 screw rod

Steel base, size: 95*95*2mm
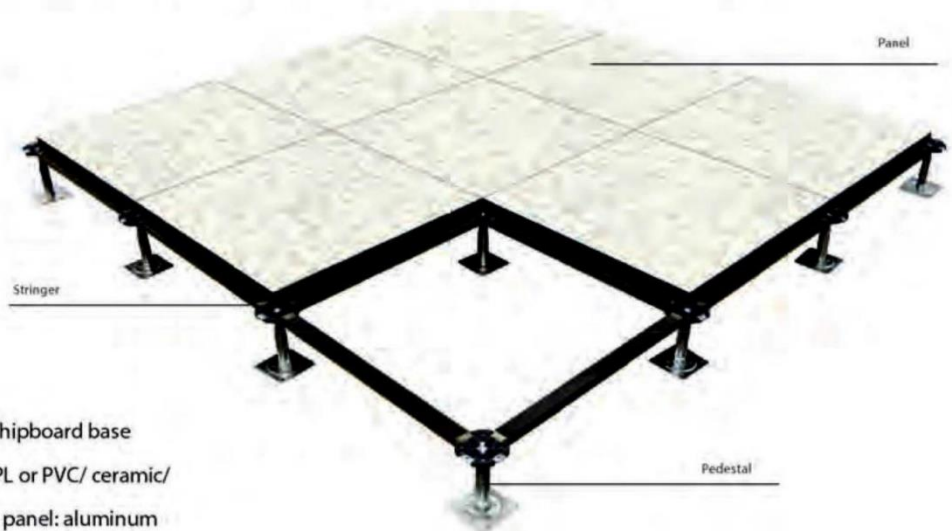
Corrosion protection: galvanized for anti-rust



## Stringer

Steel stringer, size: 20*30*540mm with sealing strip
Steel thick: 1.0mm
Corrosion protection: galvanized for anti-rust

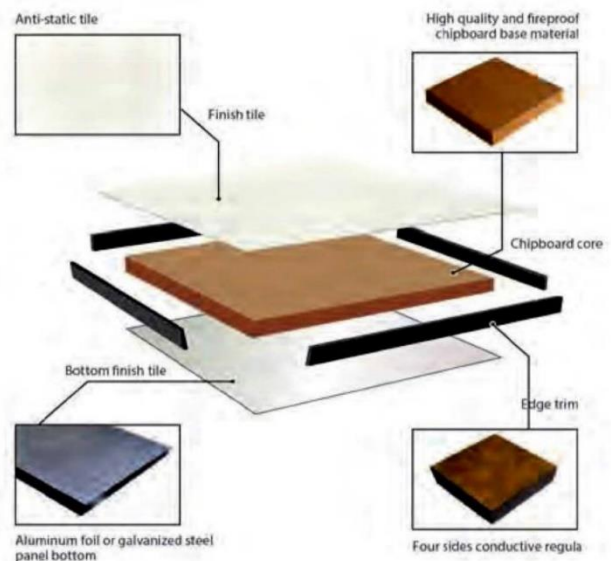# Wood Core Raised Access Floor(Finished Type)

Panel

Stringer

Pedestal

## Introduction of Products

Advanced technology, imported high quality chipboard base material or MDF base material, Tile could be HPL or PVC/ ceramic/ granite . Four sides: conductive regula. Bottom panel: aluminum foil or galvanized steel. Stringer: pressure forming and conductive gasket cover, lead screw could adjust height.

## Characteristics

1,Prevent static validly; fireproof class B1.
   antiskid, soundproof, dust proof, antisoil.

2,Strong wearability, non-bubble, no degumming.

3,Strong design ability, pressurization.

4,Appearance is beautiful.
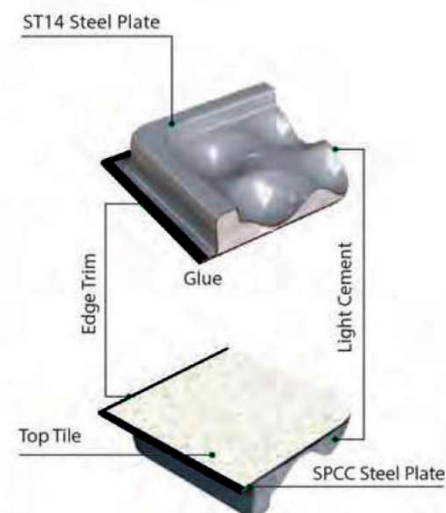
5,Easy to fix, convenient for wires.

Anti-static tile

Finish tile

High quality and fireproof chipboard base material

Chipboard core

Bottom finish tile

Aluminum foil or galvanized steel panel bottom

Edge trim

Four sides conductive regula

## Technical Specification

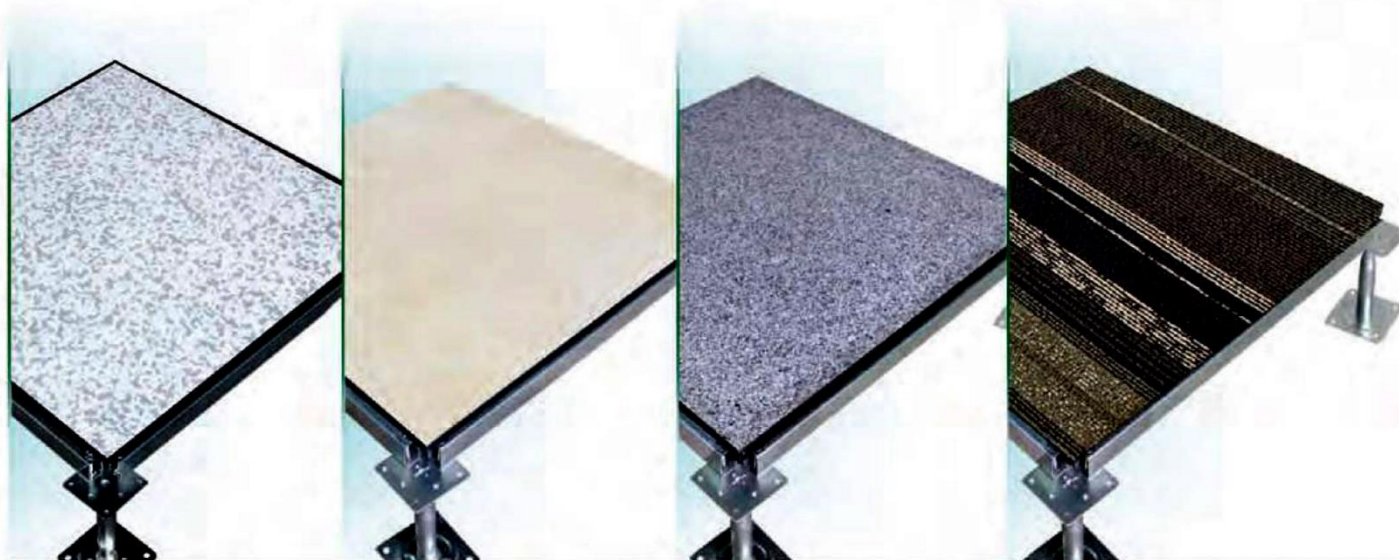| International | Size (mm) | Fire Performance | Concentrated load | | | N Impact load | N Ultimate load | N/m² Uniform load | N Rolling load | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | LB | N | Kg | | | | 10 Times | 10000 Times |
| FS440 HDF600 32CQD | 600x600x32 | B1 | ≥440 | ≥1960 | ≥200 | ≥295 | ≥5880 | ≥9720 | 1958 | 1566 |
| FS662 HDF600 40QD | 600x600x40 | B1 | ≥662 | ≥2950 | ≥301 | ≥445 | ≥8850 | ≥12500 | 2946 | 2356 |
| FS800 HDF600 40QD | 600x600x40 | B1 | ≥800 | ≥3560 | ≥363 | ≥536 | ≥10680 | ≥16100 | 3560 | 2670 |
| FS1000 HDF600 40BD | 600x600x40 | B1 | ≥1000 | ≥4450 | ≥450 | ≥670 | ≥13350 | ≥23000 | 4450 | 3560 |

# bama®

# Cementitious Infill
# Steel Raised Access Floor System(Finished Type)

## Characteristics

1. Prevent static validly; flame retardant, dustproof, antiskid, antirust, antisoil, resistance to chemical attack.

2. Imported glue, strong wearability, non-bubble, non-degumming; painted steel. body to prevent static, soft light, wearproof, antistatic.

3. High dimensional precision,super strength loading, pressurization.

4. Fix conveniently, assembly agility, bottom space could be used for air conditioning.

ST14 Steel Plate

Edge Trim    Glue    Light Cement

Top Tile    SPCC Steel Plate

## Tile could be HPL, PVC, ceramic, granit, carpet, etc.

Steel Raised Floor(PVC Tile On Top)    Steel Raised Floor(Ceramic Tile On Top)    Steel Raised Floor(Granite Tile On Top)    Steel Raised Floor( carpet On Top)
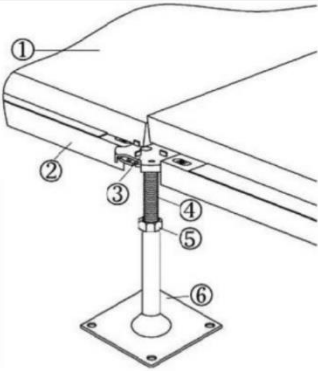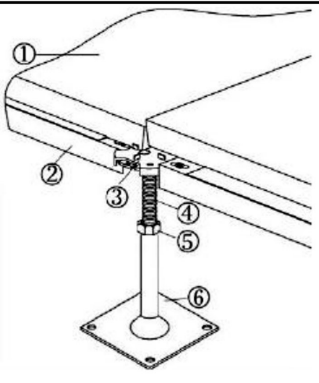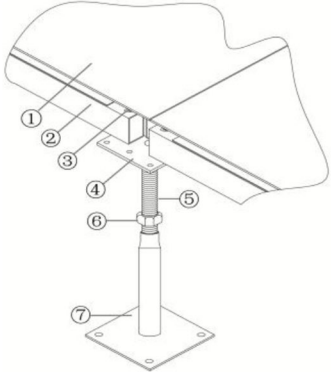
## Technical Specification

| International | Size (mm) | Fire Performance | Concentrated load | | | N Impact load | N Ultimate load | N/m² Uniform load | N Rolling load | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | LB | N | Kg | | | | 10 Times | 10000 Times |
| FS440 HDG600-35CQD | 600x600x35 | A | ≥440 | ≥1960 | ≥200 | ≥295 | ≥5880 | ≥9720 | 1958 | 1566 |
| FS662 HDG600-35QD | 600x600x35 | A | ≥662 | ≥2950 | ≥301 | ≥445 | ≥8850 | ≥12500 | 2946 | 2356 |
| FS800 HDG600-35QD | 600x600x35 | A | ≥800 | ≥3560 | ≥363 | ≥536 | ≥10680 | ≥16100 | 3560 | 2670 |
| FS1000 HDG600-35BD | 600x600x35 | A | ≥1000 | ≥4450 | ≥450 | ≥670 | ≥13350 | ≥23000 | 4450 | 3560 |
| FS1250 HDG600-35ZD | 600x600x35 | A | ≥1250 | ≥5560 | ≥567 | ≥780 | ≥16680 | ≥33000 | 5560 | 4450 |
| FS1500 HDG600-35ZD | 600x600x35 | A | ≥1500 | ≥6660 | ≥680 | ≥1005 | ≥19980 | ≥34500 | 6675 | 5340 |
| FS2000 HDG600-35ZD | 600x600x35 | A | ≥2000 | ≥8900 | ≥909 | ≥1340 | ≥26700 | ≥46000 | 8900 | 7120 |

Remark: Mounting height 100~300mm, other height could be customised. 24"× 24"(610×610mm)is available.

ISO14001    CE    CISCA    Intertek

| Access Floor Type | Wood core raised floor system |
|---|---|

**Sketch:**



1 Access floor panel
2 Stringer with foam strip
3 Pedestal head with gasket
4 Threaded rod
5 Screw for fastening the panel
6 Base plate of pedestal, can be glued to the subfloor
  or dowelled by EXPANSION BOLT on request

## System description
* Panel

| | |
|---|---|
| Description: | special high density chipboard classified E1, steel sheet at bottom side, surrounding edge trim protection against damage and humidity, edges inclined |
| Dimensions: | 600 x 600 mm |
| Panel thickness: | 40 mm |
| Density: | ~750 kg/cbm |
| Surface of the panel: | 1.2mm anti-static HPL finish |
| Four sides of panel: | 0.45mm thick elastic edge trim, which is self-distinguishing |
| Bottom of panel: | galvanized steel |
| * Pedestal | precisely height adjustable, from galvanized and yellow chromatized steel, precision threaded bolt, various types according to height requirements, thickness of coating min 5u |
| * Gasket | conductive plastic material, vaulted surface for perfect panel fixing |
| * Pedestal glue | Placing of pedestal base into concrete slab floor |
| * Stringer | recommend to use galvanized stringer with factory applied conductive foam strip, ensure system stable. |

## Technical Data
| | |
|---|---|
| * Concentrated load | 3560 N |
|     Indentor size | 25X25mm |
|     Deflection | $<$2.5mm |
|     Satety Factor | 3 |
|     Load bearing Capacity(UDL/sqm) | 16100N/m2 |
| * Reaction to fire performance | B s2 d0 |
| * Fire resistance performance | F 30 |
| * Electrostatic conductivity | $\geqslant 1X10^{6}\Omega$ |
| * Pedestal heights | 28 - 2000 mm |
| * Thickness of panel | 40 mm |
| * Pedestal grid | 600 x 600 mm |

## Acoustic values

| Acoustic values according to ISO 10848/ EN ISO 140 | without | with covering |
|---|---|---|
| normalized flanking level difference D $_{nfwP}$ | 46 dB | 48 dB (VM=29 dB) |
| Sound reduction index R $_{wp}$ | 62 dB | - |
| Reduction of impact sound pressure level $\Delta$ L $_{wp}$ | 20 dB | 28 dB (VM=29 dB) |
| Normalized flanking impact sound pressure level L $_{nfwP}$ | 65 dB | 55 dB (VM=29 dB) |

## Building Material

| | |
|---|---|
| Fire resistance Class DIN | F-30 |

| Access Floor Type | Calcium sulfate raised floor system- FS1500 |
|---|---|

**Sketch:**



1 Access floor panel
2 Stringer with foam strip
3 Pedestal head with gasket
4 Threaded rod
5 Screw for fastening the panel
6 Base plate of pedestal, can be glued to the subfloor
   or dowelled by EXPANSION BOLT on request

## System description

**\* Panel**

| | |
|---|---|
| Description: | calcium sulfate core, environment friendly, 100% recyclable material, green building material |
| Dimensions: | 600 x 600 mm |
| Panel thickness: | 32 mm |
| Surface of the panel: | 1.2mm anti-static HPL finish |
| Four sides of panel: | elastic edge trim, which is self-distinguishing |
| Bottom of panel: | 0.5mm galvanized steel sheet |
| **\* Pedestal** | precisely height adjustable, from galvanized and yellow chromatized steel, precision threaded bolt, various types according to height requirements, thickness of coating min 5u |
| **\* Gasket** | conductive plastic material, vaulted surface for perfect panel fixing |
| **\* Pedestal glue** | Placing of pedestal base into concrete slab floor |
| **\* Stringer** | steel stringer with factory applied conductive foam strip, ensure system stable. |

## Technical Data

| | |
|---|---|
| **\* Concentrated load** | 6660 N |
| Indentor size | 25X25mm |
| Deflection | ＜2.5mm |
| Satety Factor | 3 |
| Load bearing Capacity(UDL/sqm) | 34500N/m2 |
| **\* Electrostatic conductivity** | $\geq 1X10^6 \Omega$ |
| **\* Pedestal heights** | 28 - 2000 mm |
| **\* Thickness of panel** | 32 mm |
| **\* Pedestal grid** | 600 x 600 mm |

## Other items:

Reaction to fire Acc. To EN 13501 -1: class A1
Fire resistance Acc. To EN 13501-2:2007+A1:2009: Pass
Product certified for low chemical emissions UL.COM/GG UL 2818 Acc. To UL 2818-2013: Pass
Product certified for low chemical emissions UL.COM/GG UL 2818 GOLD Acc. To UL 2818-2013: Pass

## Acoustic values depending on system and floor covering:

New terms acc. to DIN EN

| | | |
|---|---|---|
| • sound reduction index R $_{L,w,P}$ | 52 – 58 dB | Standard flank level difference $D_{n,f,w,P}$ |
| • normalized impact sound pressure level L $_{n,w,P}$ | 63 – 40 dB | Standard flank impact sound level L $_{n,f,w,P}$ |
| • improvement of sound pressure level reduction $\Delta$ L $_{w,P}$ | 18 – 35 dB | Impact sound reduction $\Delta$ L $_{w,P}$ |

| **FS800** | Steel raised floor system |
| --- | --- |

**Sketch:**



1 Access floor panel
2 Stringer
3 Screw for fastening the stringer to pedestal head
4 Top plate of pedestal
5 Steel threaded rod
6 Screw for fastening the pedestal
7 Base plate of pedestal, can be glued to the subfloor
  or dowelled by EXPANSION BOLT on request

## System description
**\* Panel**

| | |
| --- | --- |
| Description: | Full steel, tile could be HPL or PVC. Lower plane is ST14 stretched plate, surface plane is SPCC hard steel both are Shanghai Bao steel. Foaming cement infilled conductive regula for four sides. |
| Dimensions: | 600 x 600 mm |
| Panel thickness: | 35 mm |
| Surface of the panel: | anti-static HPL finish |
| Four sides of panel: | elastic edge trim, which is self-distinguishing |

| | |
| --- | --- |
| **\* Pedestal** | precisely height adjustable, from galvanized and yellow chromatized steel, precision threaded bolt, various types according to height requirements, thickness of coating min 5u<br>- top: 75x75x3mm<br>- threaded rod: M18mm<br>- tube: 25, wall thickness 1.2mm<br>- base: 95x95x2mm<br>- finishing: yellow electroplating |
| **\* Pedestal glue** | Placing of pedestal base into concrete slab floor |
| **\* Stringer** | recommend to use stringer, ensure system stable<br>- dimension: 21x32x570mm<br>- finishing: yellow electroplating |

## Technical Data

| | |
| --- | --- |
| \* Concentrated load | 3560 N |
| Indentor size | 25X25mm |
| Deflection | <2.5 mm |
| Satety Factor | 2 |
| Load bearing Capacity(UDL/sqm) | 16100N/m2 |
| \* Electrostatic vertical resistance EN1081 | $\geq 1X10^4\Omega$  $\leq 1X10^9\Omega$ |
| \* Pedestal heights | 28 - 2000 mm |
| \* Thickness of panel | 35 mm |
| \* Pedestal grid | 600 x 600 mm |

## Building Material

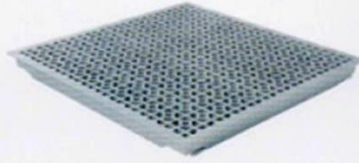| | |
| --- | --- |
| Fire reaction classification EN 13501-1: | A1 |
| Fire resistance classification EN 13501-2: | REI 30 |
| Laminate covering fire reaction classification D.M. 26/06/84 | Class 1 |
| Plastic edge self-extinguishing classification UL94 | Class V0 |

## Other Raised floor Accessories


Aluminium Air-Flow Raised Access Floor
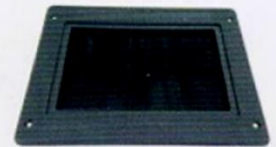
Aluminium Stringer

Aluminium Pedestal

Aluminium
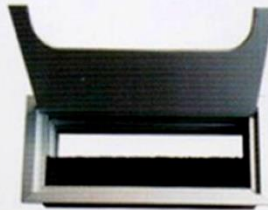600 × 600mm Air Grill

Aluminium
600 × 300mm Air Grill

Rectangle air outlet
556x116.7x69.5mm

Brush Grommet01
223x144x28mm

Brush Grommet02
276x80x28mm

Brush Grommet03
250x80x28mm

Brush Grommet04
80x80x28mm

Double cups lifter

# Environmentally friendly products

Caso₄

Fiber

R & D

Calcium sulphate board

The Calcium Sulphate used in the Ultra Interiors floors, has been researched for many years. The recycled content and panel purity has now reached international standards