

# STACO<sup>®</sup>

Static Control Access Floor System



CO20 / 30 series static conductive access floor  
AN20 / 30 series anti-static resilient access floor  
FS / US series standard bare panel access floor  
Perforated access panel and air diffuser  
Complete range understructure  
Complete range service floor boxes

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## I. STACO CO20 / CO30 series

### Static Conductive Access Floor Systems

**STACO CO20 / CO30** series has unique production process to provide static conductivity. The access panels are top-finished with conductive vinyl tile and protective edges at four-sides. Two copper strips are bonded under two sides of the tile prior to bonding onto access panel. Conductive continuity is contributed by the copper strips, which act as a connecting pathway. Static flows through conductive tile, conductive grid system, and dissipating through the earthing ground point. The system is suitable for using at hi-tech factory, pharmaceutical, food procession, operation room, hospital ward, computer and control center, arsenal warehouse, and etc.

**Access panel:** size 600mmX600mm (also 24”X24”)

**Conductivity property:** Surface static resistance at  $2.5 \times 10^4 \sim 10^6$  ohm.

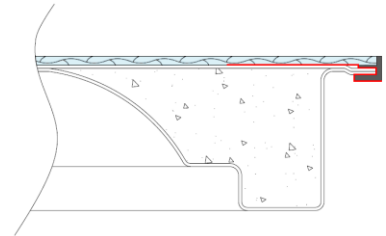
**Resilient:** Access panel top-finished with homogeneous Conductive vinyl tile of 2.0 / 3.0 mm thickness.

**Durability:** Pure vinyl, high durability.

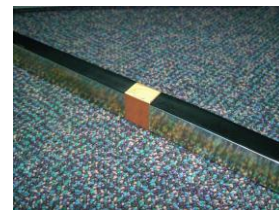
**Mini-edge vinyl trim** bonded at four-sides of vinyl tile and access floor panel, providing secure protection. (note: Mini-edge access panels only available for loading property 1250LB, 1000LB and 800LB, and only for size 600mmX600mm)

**Static conductivity:** Each conductive tile, prior to bonding onto access panel, pre-bonded by copper stripes at mid of 2 tile’s sides, extended through and underneath 2 vinyl trims of the panel, which to contact at copper stripes at center of stringers for static conductivity through stringers, pedestals, and to building earthing points.

**Conductive stringer:** copper strip taped at center of acoustic foam taped stringer, connect conductive tile and grid-pattern stringers.



mini-edge static conductive access panel



#### **Static conductivity to earthing point in the building:**

At the time CO20 access panels installed on stringers, statics are dissipated through access panels’ surface, stringers, understructure system, to building earthing points.

## II. STACO AN20 / AN30 series

### Anti-Static Resilient Access Floor Systems

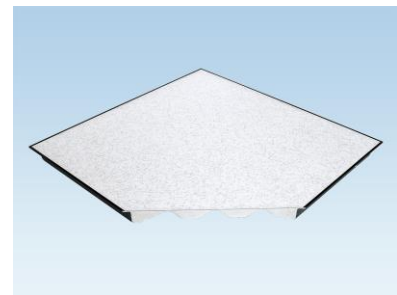
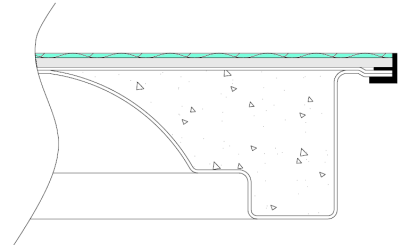
**Access panel:** size 600mmX600mm (also 24”X24”)

**Anti-static property:** Surface static resistance at  $10^8 \sim 10^{12}$  ohm.

**Resilient:** Access panel top-finished with homogeneous conductive vinyl tile of 2.0 mm or 3.0 mm thickness.

**Hard-wearing:** Pure vinyl 2.0 and 3.0 mm thickness.

**Mini-edge vinyl trim:** same production procedure as CO20 / CO30 series, but without conductive coppers strip and conductive stringer.



### Applications

Systems suitable for light to heavy traffic – factory offices, banks, schools, libraries, museums, and all public institutional interiors.



**Loading property:** for **STACO CO** and **AN** series, applied steel cementitious access panels of complete loading grades, from light to heavy duty: 800LB, 1000LB, 1250LB, 1350LB, 1500LB, 2000LB, 2500LB.

### III. STACO FS/US series

#### Bare Panel Access Floor system

The **STACO FS/US** series provides bare finish access floor system for general office applications. Carpet tiles, vinyl tiles, or other floor coverings are installed at job site after complete installation of the US/FS bare finish access floors.

The access panels are also using as base panels of the CO20 and AN20 series, factory assembly for static conductive access floors, and anti-static access floors.

#### System description

**Access panels size:** 600mmX600mm, also 24”X24”

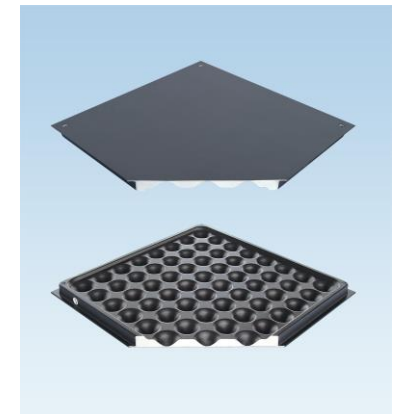
**Performance of complete STACO access floor ranges:**

- ✓ non-combustible
- ✓ cementitious core in welded steel
- ✓ loading property for medium to heavy traffic
- ✓ interchangeable access panel
- ✓ moisture resistance, better than woodcore
- ✓ top finished by all major type floor coverings - carpet tiles, vinyl tiles, .....
- ✓ comply with electricity, data. voice outlet boxes, and HVAC Under-Floor Air Conditioning.
- ✓ compliance with CISCA and all other internationally accepted standards.

#### Structure of STACO access panels

Welded form steel access panel, in-filled with light-weight cement, corrosion protection by powder coating.

**Loading property:** Steel cementitious access panels of complete loading grades, from light to heavy duty: 800LB, 1000LB, 1250LB, 1500LB, 2000LB. (special run for 1350LB, 2500LB)



#### Access floor panels main specifications

STACO systems	Panel Size (mm)	Concentrate load (2.5 mm def.)		Concentrate ultimate load		Uniform load KN / M2
		LB	KN	LB	KN	
FS-800	600X600	> 800	> 3.56	>2000	>8.90	>16.5
FS1000 / US1000	600X600 (also 24”X24”)	> 1000	> 4.45	>2500	>11.12	>23.0
FS1250 / US1250		> 1250	> 5.56	>2750	>12.23	>33.0
FS1350 / US1350		> 1350	>6.00	>2900	> 13.00	>33.0
FS1500 / US1500		> 1500	> 6.68	>3000	>13.35	>39.0
FS2000 / US2000		> 2000	> 8.90	>4000	>17.8	>52.0
FS2500/US2500	600X600 (also 24”x24”)	>2500	>11.13	>5000	>22.23	>52.0

## IV. Perforated Access Panels and Air Diffusers

### Perforated panels for UFAD

Available for specific air-flow ratio, using in data centers, clean rooms, and etc.

**Air-flow ratio:** 21%, 24%, 32%, 45%.

Finishing: available in vinyl or HPL, four sides sealed by vinyl trimmers as protection.

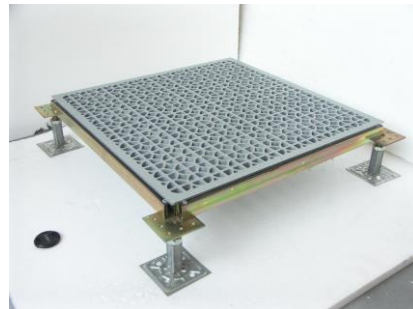


### Aluminum die-casting grating panel

Air-flow ratio at 56%

Loading property:

Concentrate load: 600 and 1000 Lbs  
(special run for extra-heavy loading)



### Aluminum Air Diffusers

Aluminum die-cast air diffusers are installed at center of access panels.

Aluminum air diffusers are using for UFAD in offices, libraries, recreational facilities, and institutional interiors, etc.

The diffusers are heavy-duty, suitable for pedestrians walking environments, but not suitable for rolling under heavy carts.



### Opening with Brushes

Install "opening with brushes" by cutting at center of access panels.

The brushes are available in 2 types.

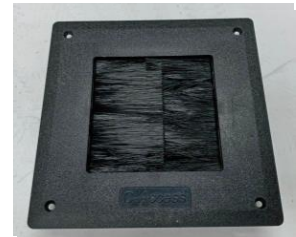
1. Aluminum frame:

open dimension: 197mmX137mm

2. Plastics frame:

open dimension: 99mmX99mm

Brushes material: nylon / polyamide



## V. Understructure

### Understructure systems

1. Corner-lock on pedestals, without stringer.
2. Bolted stringers, lay-in access panels or corner-locked panels.

**Corrosion protection:** All understructure systems are made of full steel, corrosion protection in accordance with specifications:

- (1) Zinc plating.
- (2) Hot-dipped galvanized.
- (3) Non-zinc whisker plating.

### Corner-lock pedestal for bare panel

Pedestal: consisted of headset, pedestal pipe and base.  
Standard height: FFH 150 mm to 400 mm.

### Bolted stringer and pedestal for lay-in panel

Stringer: square steel tube, pre-punched holes at two ends, for fastening at top of pedestal headset, automatically form a grid-pattern stringers, and laid-in by access panels.

### Shock absorption

PVC strip taped on top of stringer, to provide shock absorption and noise dampness

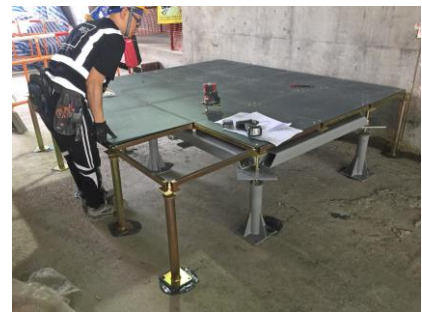
Height: Pedestals are available in a number of heights to support finish floor height (FFH) from 150mm (6") to 1200mm (4 FT).

Each pedestal allows  $\pm 25$  mm height adjustment.

### Specs of the understructure pedestals and stringers

Size and thickness of top-plate, bolts, pedestals, pedestal base plates, stringers:

To provide in accordance with project's requirements on FFH (finish floor height), seismic zone, span of pedestals and all special requirements.



## VI Specialty Understructures

### Seismic Resistance and Shock-Absorption

For FFH greater than 600mm (2 feet), size and thickness of pedestals, top-plate and base plate are greater than normal. Shock absorption devices are additional designed at top of the pedestal pipes, and nuts to fasten the top-plates.



## VII. Service Floor Boxes

Wide-range floor boxes accommodate all types of power socket in EC, U.K, Middle East, USA, Australia, and most of other countries.

### 1. **SS60:** stainless steel lid - height 60mm / 80 mm / 100 mm

Stainless steel mounting lid and galvanized steel base box, 2 or 3 compartments based on requirement, for access floor finish floor height 60 mm.



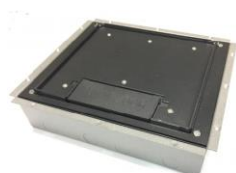
Dimension: 250 mm X 220 mm

Height: 60 mm / 80 mm / 100 mm (access floor minimum finish height)

Mounting lid: polishing stainless steel tray, middle with recess 6.5 mm for topping.

### 2. **SE60:** reinforced steel mounting lid - height 60mm / 80 mm / 100 mm

Reinforced mounting lid, galvanized steel base box, 2 or 3 compartments based on requirement, for access floor finish floor height 60 mm.



Dimension: 248 mm X 218 mm

Height: 60 mm / 80 mm / 100 mm (access floor minimum finish height)

### 3. **SB75:** carbonated lid - height 75mm / 100 mm

Poly-carbonated lid and galvanized steel base box, 2 or 3 compartments based on requirement, for access floor finish floor height minimum 75 mm.

Dimension: 250 mm X 220 mm

Height: 75 mm / 100 mm

(access floor minimum finish height)



# STACO<sup>®</sup>

**Quality Assurance:** All STACO product lines are quality assured of 5 years limited warranty.



## Maintenance

Static conductive access floor and anti-static access floors: Maintain in accordance with static conductive floor procedures.

Clean the dirt, rinse with clean water.

Do not use oil-base wax.



## Patent pending:

CO20 static conductive system is patent pending in the USA, China, Taiwan, and other countries.



In pursuing quality improvement, the manufacturer reserves the right to vary specifications without prior notice.

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*A product division of Netfloor, Inc.  
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