STACO®

Static Control Access Flooring System
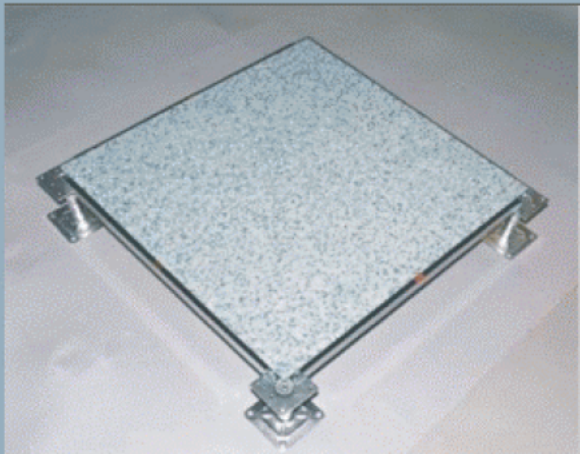
AN45 series	Anti-static resilient access floor
Conventional series	Steel cementitious access floor
Understructure systems	Pedestal / stringer
	Anti zinc whisker plating
Power / Data	Service floor box series
Zone power	ZoneEx systems
Actile	Anti-static vinyl tile

NETFLOOR USA

STACO AN45 is a durable, resilient, and aesthetic access floor system for any application. The factory applied floor tile is bonded to a conventional access floor panel (cementitious). STACO panels are virtually seamless, without any visible edge or trim pieces between panels. This unique design makes the benefits of an access floor available to any building type, and Blends well with any interior design.

Features -- AN45 series

- Aesthetics - Uniform finish, no trim pieces at four sides of access panel:
  Full coverage, anti-static vinyl tile (Actile) bonded one-to-one alignment on access panel.
  The 4.5 mm thick Actile is rigid at tile borders. No extra protection or trim at borders is needed.
  Panels are interchangeable, providing a uniform look, with inherent pattern and color coordination and matching.

- Anti-static:
  Vinyl tile (Actile) static dissipative at 106 ~ 109 ohm.
  Higher static control performance than carpet tile, regular PVC, and HPL surfaces.

- Resilient: surface 4.5 mm thick vinyl tile (Actile).
  Comfortable walking and noise control.

- Hard-wearing: Pure vinyl wear-layer 1.0 mm thick, much more durable than HPL alone.

- Choice of colors: 8 standard colors. Custom colors available.

- Stain resistance: UV coating, glossy surface.
  Maintenance procedure is easy. Rinse lightly with solution;
  Waxing by water-base wax to prevent marking.

- Non-combustible: cementitious steel panel, full steel
  pedestals and bolted stringers.
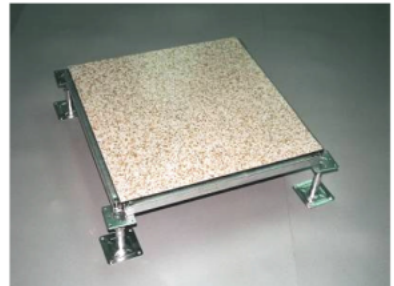
Applications

Systems for any building, from light to heavy traffic --
Office space, banks, manufacturing, education, command/control centers and more.

STACO installed in a banking corporate headquarters, requiring a uniform color and pattern, without black vinyl trimmers.

An anti-static resilient access floor consisting of a STACO AN45 panel and understructure system.
Modular size: 600 mm X 600 mm
System height: 100 mm ~ 1200 mm
Understructure: Pedestal system with bolted stringer
Anti-stain treatment: UV coating

AN45 panel consists of Actile and cementitious core access panel

Actile one-to-one alignment bonded on access panel.
No trimmers are required at four sides of the tile.
Access Panel: Cementitious core, steel panel with excellent loading
properties (Cencentrated load up to 2000 LB).
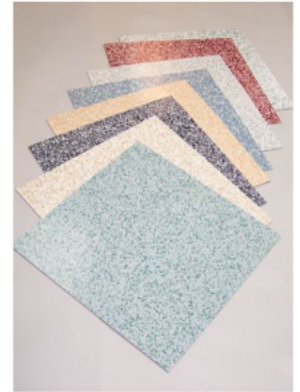Size: 599.6 mm X 599.6 mm

Actile: anti-static vinyl tile top covering.
Total thickness: 4.5 mm.
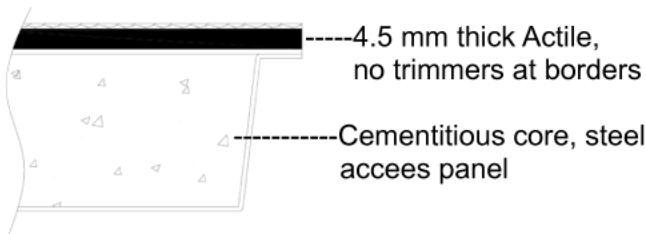Wear Layer: 1.0 mm thick homogeneous vinyl.
Backing: 3.5 mm thick PVC back.
(for details of Actile, please see page 9)
Size: 600 mm X 600 mm

AN45 panel -- cross section

-----4.5 mm thick Actile,
no trimmers at borders

-----------Cementitious core, steel
accees panel

Stringer
Rectangular tube steel with zinc plating.
Shock-absorption PVC stripe on top edge, eliminating noise and preventing air leakage.

Pedestals
Full steel pedestal system, corrosion protection by zinc plating.
Pedestal system to support standard finish floor height (FFH) 100 mm ~ 1200 mm.
(page 5 Understructure)

General Specifications   *Panel size: 600 mm X 600 mm*

System	Vinyl tile thickness	Anti-static wear-layer	Static propensity	Concentration load -- access panel	Concentrate ultimate load	System weight per sq. meter
AN45-800	4.5 mm	1.0 mm	$10^6 \sim 10^9$ Ω	800 LB (3.56 KN)	>2200 LB	avg. 50 kg / m²
AN45-1000	4.5 mm	1.0 mm	$10^6 \sim 10^9$ Ω	1000 LB (4.45 KN)	>2750 LB	avg. 53 kg / m²
AN45-1250	4.5 mm	1.0 mm	$10^6 \sim 10^9$ Ω	1250 LB (5.56 KN)	>3437 LB	avg. 56 kg / m²
AN45-1500	4.5 mm	1.0 mm	$10^6 \sim 10^9$ Ω	1500 LB (6.68 KN)	>4125 LB	avg. 59 kg / m²
AN45-2000	4.5 mm	1.0 mm	$10^6 \sim 10^9$ Ω	2000 LB (8.90 KN)	>5550 LB	avg. 62 kg / m²

Staco FS cementitious core access flooring is the workhorse
Of the NetfloorUSA product line. A traditional, cementitious
Core steel access floor panel that accepts most types of floor
Coverings in any application.

Modular size - access panel: 600 mm X 600 mm
FFH (finish floor height):
Corner Lock installation: 100 mm ~ 800 mm
Bolted Stringer installation: 100 mm ~ 1200 mm

Features
Non-combustible
Cementitious core, steel panel
Excellent loading properties for heavy traffic
100% interchangeable access panel
Moisture resistance, better performance than
woodcore panels
Top finishes by most major type floor covering types:
Carpet tile, vinyl tile, HPL
Compatible with electrical, data and voice outlet boxes,
and HVAC Under-Floor Air Conditioning.
Full compliance with CISCA and all other
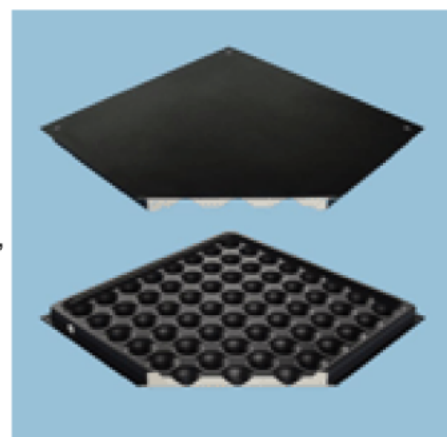Internationally accepted standards

Applications
Suitable for all commercial and institutional interiors -
Office spaces, banking, manufacturing, educational, libraries,
Hotels, casinos and all public interiors.

Access Panel
Welded form steel access panel, cementitious core,
Waffle backing, corrosion protection by powder
Coating.

Access panels are available in a wide loading property range. Concentrated load ratings from
800 LB to 2,000 LB for light, medium and heavy traffic.

Access panel general specifications

STACO systems	Panel Size (mm)	Concentrated load		Concentrated ultimate load	
		LB	KN	LB	KN
FS-800	600 X 600 X 32	> 800	> 3.56	> 2200	> 9.80
FS-1000		> 1000	> 4.45	> 2750	> 12.25
FS-1250	600 X 600 X 35	> 1250	> 5.56	> 3437	> 15.31
FS-1500		> 1500	> 6.68	> 4125	> 18.37
FS-2000		> 2000	> 8.90	> 5550	> 24.72

Types of Finishes

Access panels finishes available in a bare finish, and factory bonded vinyl or HPL finish.

A. Bare panel (STACO FS)
Bare panel secured by corner lock installation method, Floor coverings are installed at job site after completion of access floor installation. Commercial rate floor tiles such as carpet tile, vinyl, and rubber tile are standard floor coverings. Floor tiles are loose-laid, or bonded by releasable adhesives. Vinyl tiles are recommended, anti-static, pure PVC wear layer no less than 0.7 mm, and total thickness no less than 4 mm.


bare panel

B. Factory-bond finish access panel (STACO AN45)

1. **Vinyl tile access panel**: 2 mm thick homogeneous vinyl tile, four sides sealed by vinyl trimmer as protection.

2. **Conductive vinyl tile access panel:** 2 mm or 3 mm thick homogenous conductive vinyl tile, four sides sealed by conductive vinyl trimmer as protection

Vinyl finish panel

3. **HPL** finish:
1.2 m thick HPL, four sides sealed by vinyl trimmers as protection.
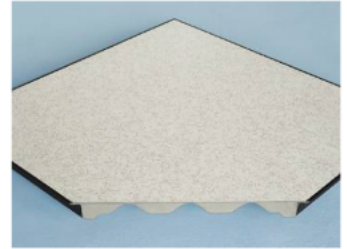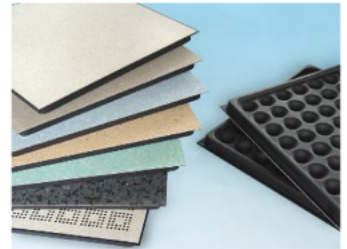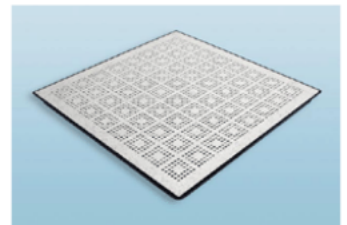

HPL finish panel

C. Perforated panel: for under-floor air distribution
Factory bonded perforated access panel for under-floor air distribution at required air-flow ratio.
Air-flow ratio: 20%, 35%, 40%
Finishes: Available in HPL and vinyl, four sides sealed by vinyl trimmers as protection.
Concentrate load: 800, 1000, 1,250 LB

perforated panel

NETFLOORUSA

Understructure

Understructure system choices
(1) Access panel corner-locked on pedestal without stringer.
(2) Bolted stringer and pedestal, lay-in access panel.

Corrosion protection: STACO understructure systems are made of full steel with corrosion protection by 5 micron zinc plating.

Corner-lock pedestal for bare panel

Pedestal: consists of headset, pedestal shaft and base.
Height: available in different heights to support finish floor heights (FFH) from 100 mm to 800 mm high. Each pedestal allows ± 20 ~ 25 mm height adjustment.

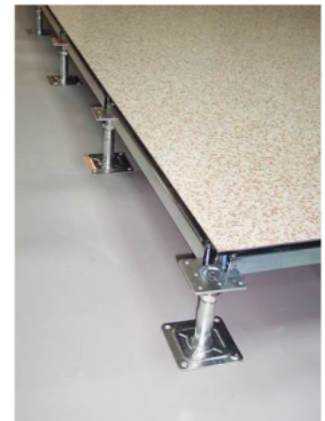| PERFORMANCE SELECTION CHART Corner Lock Pedestal for Bare Panel					
Pedestal No.	Finish floor height (mm)	Vertical load	Headset (mm)	Pedestal shaft	Pedestal base (mm)
CL-PDT 100 ~250	100 ~ 250 ± 20	18 kN 4,000 lb.	75 x 75	Ø 20 mm 1.2 mm thick	100 x 100 2.5 mm thick
CL-PDT 300 ~ 450	300 ~450 ± 25	18 kN 4,000 lb.	75 x 75	Ø 24 mm 1.2 mm thick	100 x 100 2.5 mm thick
CL-PDT 500 ~ 800	500 ~800 ± 25	18 kN 4,000 lb.	85 x 85	Ø 31 mm 2.0 mm thick	125 x 125 3.0 mm thick

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 forming a grid-pattern.

Shock absorption

PVC strip applied on top of stringer, to provide shock absorption and to dampen noise.

Height: Pedestals are available in dfferent heights to support finish floor heights (FFH) from 100 mm to 1200 mm. Each pedestal allows ± 20 ~ 25 mm height adjustment.

PERFORMANCE SELECTION CHART Bolted Stringer & Pedestal for Access Panel					
Pedestal No.	Pedestal height (mm)	Vertical load	Headset (mm)	Pedestal pipe	Pedestal base (mm)
BS-PDT 100 ~400	80 ~ 400 ± 20	18 kN 4,000 lb.	75 x 75	Ø 24 mm 1.2 mm thick	100 x 100 2.5 mm thick
BS-PDT 450 ~ 800	450 ~ 800 ± 25	18 kN 4,000 lb.	75 x 75	Ø 31 mm 2.0 mm thick	100 x 100 3.0 mm thick
BS-PDT 850~ 1200	850 ~1200 ± 25	18 kN 4,000 lb.	85 x 85	Ø 38 mm 2.0 mm thick	125 x 125 3.0 mm thick

Anti Zinc Whisker plating on access floor understructure is essential for preventing the accumulation of the dangerous "zinc whisker" phenomenon found in many critical environments.

Why ?
Anti zinc whisker plating is applied to pedestal and stringer systems to prevent damaging zinc whiskers, which can cause short circuits in sophisticated electronic equipment such as: servers, controllers, motors, environmental sensors and more.

Performance Special plating process produces high quality protection, inhibiting zinc whisker growth during a 200 hour salt spray test.

Applications
As an understructure for aluminum, steel access panel, and other types of special access floor system which require anti zinc whisker qualities. Access floor understructures for projects in banking, data center, control room, hi-tech manufacturing and other industries.
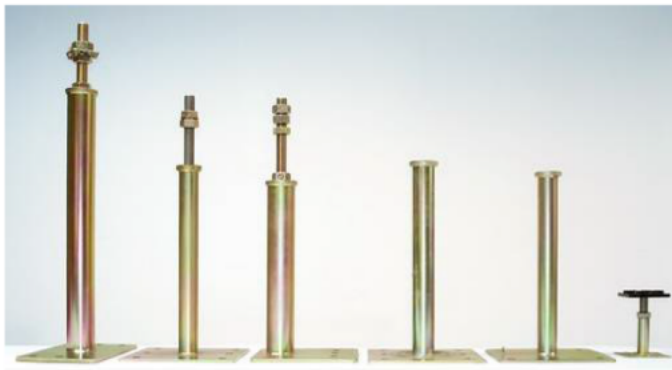
Custom-made anti zinc whisker plating pedestal, at specified height and thickness
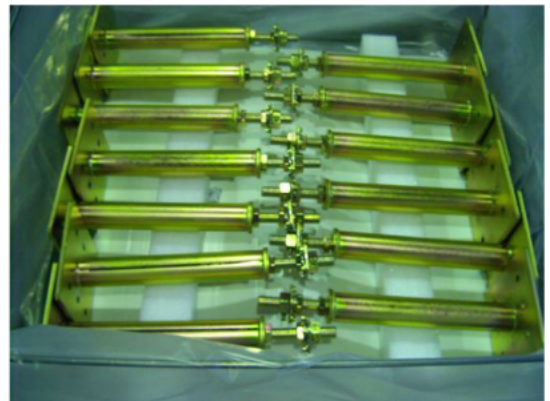
Pedestal height: up to 1200 mm (48 inches)
Pedestal diameter and thickness: per architectural specifications
Headset thickness: per architectural specifications
Base plate thickness: up to 9 mm

Particulate control clean packing

Custom size non zing whisker plating pedestals (900 mm high) ready for shipment

Electrical Floor Box

We supply functional floor box systems for the U.S. and international markets, accommodating all types of power plugs, voice, data and video connections.

SB75

SB75 floor box consists of poly-carbonate mounting lid and galvanized steel base, 3 compartments, for access floors of various heights.

Capacity:
2 compartment for power sockets:
   SS75-BS: 2 twin sockets for 4 plugs. 13A, 240 V
   SS75-EC: 2 twin sockets for 4 plugs. 15A, 240 V
1 compartment for minimum 4 data/voice jack
Mounting lid: Molded poly-carbonate tray with frame, reinforced with 3 mm galvanized steel at middle, recessed 6.5 mm at top area for covering by carpet tile.
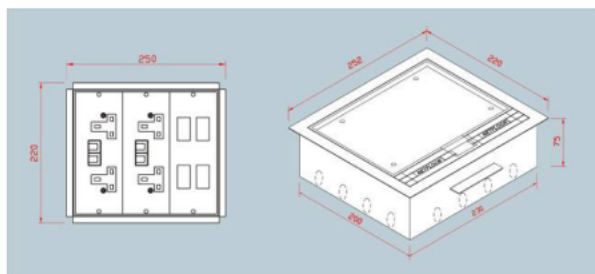

3 compartments
4 sockets & 4 data jacks

Box base: size 230 mm X 200mm
Box base and compartments for sockets and data jack: made of galvanized steel with powder coating.

Dimension details: for all base trays
** Access panel cut out: 232 mm X 202 mm
** Carpet tile cut size for topping floor box:
   210 mm X 146 mm

SS60 - International Configuration

SS60 floor box consists of stainless steel mounting lid and galvanized steel base, 3 compartments, for access floor finish floor height 60 mm.
2 compartments for sockets: 2 twin sockets for 4 plugs. 13A, 240V
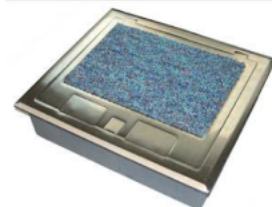1 component for data/voice jack
Overall dimension: 252 mm X 220 mm
Height: for access floor finish floor height 60 mm and greater

Mounting lid: stainless steel tray, middle with recess 6.5 mm for covering by carpet tile.
Box base: size 230 mm X 200 mm
Box base and compartments for sockets and data jack: made of galvanized steel by powder coating.

Options for socket system other than BS type
Factory assembled all types of
receptacle compartment to affix sockets
of international countries and configurations.

FFH 75 mm (plastic lid)
FFH 60 mm (stainless steel lid)
Power compartments are easily converted
to sockets of various types.



Accommodates all type sockets.

Ideal flooring solution; better than carpet tile

Actile is an ideal resilient flooring for modern interiors.
Durable yet aesthetically pleasing, Actile floor finishes can effectively eliminate the static buildup and discharge in any application where electrical equipment operates. The tile consists of a thick wear-layer, anti-stain treatment and backing.

high purity vinyl
carbon

Wear-layer: High durability pure PVC with inlaid carbon
Anti-stain Treatment: UV coating
Backing: Cross-section construction with 3 layers, enhancing the dimensional stability of the tile.

multi-layer vinyl back
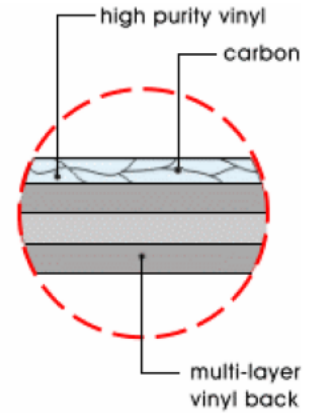
Applications ---

1. **As surface Flooring for Access Floors, including NetfloorUSA STACO.**
   Actile provides a releasable solution, similar to carpet tile. Additionally, Actile features high durability, anti-static, and cleaning properties which regular commercial carpet tile can not match.

   ### 1.1 Apply on **Access Floor**
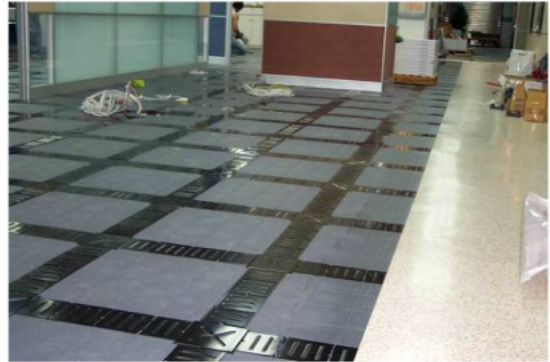
   Actile may be installed on access floor before or after cable routing.

   ### 1.2 **On corner-lock bare finish access floor:** same application as 1.1

   ### 1.3 Factory **one-to-one alignment bonding** to access floor panel: AN45 system (page 1,2).

Single color installation, monolithic atmosphere in large call center
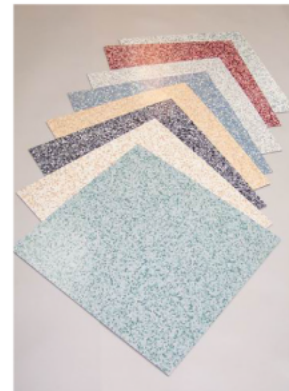
Standard colors and custom colors available

Please see Actile brochure for full information

STACO

Static Control Flooring Systems

Meeting room door hinge installed on AN45 panels

Perfect for all Modern Interiors

- *Schools*
- *Banks*
- *Libraries*
- *Control rooms*
- *General office*
- *Factory / factory office*
- *Museums*
- *Hospitals / Clinics*
- *Retail Stores*

Quality Assurance: All NetfloorUSA products come with a 5 year limited warranty.

Maintenance
Anti-static vinyl tile: Maintain in accordance with conductive floor procedure. Clean the dirt, rinse with clean water. Do not use oil-base wax. Water base wax is applicable.

NETFLOORUSA

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

www.netfloorusa.com

MEMBER
CISCA
Ceilings & Interior Systems
Construction Association