

# 2002 PRODUCT GUIDE

## Access Floor Solutions



Office Environments



Equipment/Telecom



Clean Rooms

*Rethinking Construction*

**Tate**®  
ACCESS FLOORS

# Building Technology Platform®

Tate's fully integrated ConCore®/PosiLock® access floor system with underfloor Power, Voice, Data and HVAC services distribution means you can:

## IMPROVE

- Indoor Air Quality
- Energy Efficiency
- Individual Comfort
- Flexibility

## REUSE

- Modular Wiring
- Modular Carpet
- Access Flooring
- Underfloor Air

## REDUCE

- Cost of Change
- Carpet Scrap and Attic Stock
- Absenteeism
- Taxes through an Accelerated Depreciation Rate



## Panel Features

- Engineered positive engagement between panel and pedestal
- Easy panel reinstallation
- Designed for use with PosiTile® carpet tile
- Excellent rolling load performance
- Superior ultimate load performance
- Lightweight cementitious fill makes panels solid and quiet
- Interchangeable with other panel strengths
- Excellent grounding and electrical continuity
- Electrodeposition cathodic epoxy paint finish for lifetime protection
- User friendly
- Completely non-combustible
- Class A flame spread and smoke development rating

## ConCore/PosiLock® Performance Selection Chart

SYSTEM TYPE		SYSTEM WEIGHT	STATIC LOADS			ROLLING LOADS		IMPACT LOADS
Panel	Understructure		Concentrated Loads	Uniform Loads	Ultimate Loads	10 Passes	10,000 Passes	
<b>ConCore® 1000</b>	<b>PosiLock</b>	7.5 lbs/ft <sup>2</sup> 37 kg/m <sup>2</sup>	1000 lbs 454 kg	250 lbs/ft <sup>2</sup> 11.9 kPa	3250	800 lbs 363 kg	600 lbs 272 kg	100 lbs 45 kg
<b>ConCore® 1250</b>	<b>PosiLock</b>	8.5 lbs/ft <sup>2</sup> 41 kg/m <sup>2</sup>	1250 lbs 567 kg	300 lbs/ft <sup>2</sup> 14.3 kPa	3750	1000 lbs 454 kg	800 lbs 363 kg	100 lbs 45 kg

Note: Concentrated, ultimate, and impact load capacities are tested by imposing loads on a one square inch area. Results indicate weakest point of panel. Additional strengths available. For further information and product specifications, call the Tate Hotline at 1-800-231-7788, or visit [www.tateaccessfloors.com](http://www.tateaccessfloors.com).

## Understructure



PosiLock® pedestal for low floor height systems



PosiLock® pedestal with cornerlock capability



UniLock® pedestal with cornerlock and stringer attachment capability

- Locating tabs provide positive engagement to ConCore® panel
- Low finished floor height systems available from 2 1/2" and up
- Self-capturing fastener remains within the panel
- Steel pedestal head provides optimum strength
- Pedestal nut provides anti-vibration and locking features
- Square steel tube engages round steel stud to prevent pedestal head rotation

# Modular Wiring

Modular wiring provides the ultimate flexibility for all of your cabling requirements. With a modular wiring system under your access floor, reconfiguring power, voice and data cabling is easy. Simply plug and play!

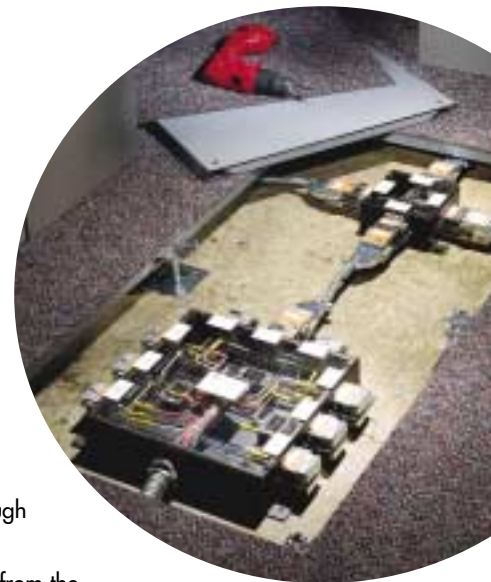
When you relocate, take the system with you. Your voice and data system can be supplied using Cat 3 and Cat 5 coax or optical fiber that is UL-listed and plenum-rated according to the National Electrical Code, and meets the performance requirements of TI-568A for Category 5.

Contact Tate's Technical Services for more details regarding sources for modular wiring at 1-800-231-7788.



## PVD Servicenter™

- Offers an attractive alternative to both poke-through and traditional above-floor designs
- May be relocated by disconnecting the whip end from the Power Extender Cable, moving the box to a new location and reconnecting the Power Extender Cable and whip end
- High capacity standard floor height box accommodates up to four duplex receptacles and three NEMA size faceplates for voice/data
- Available in standard finished floor height of 6" and low finished floor height of 2 1/2"



# Underfloor Air

## Underfloor Air Distribution:

- Reduces sick time / Lowers absenteeism
- Provides better indoor air quality
- Provides greater personal comfort



## Diffuser

Tate air diffusers provide floor based air distribution; air flow varies from 90 to 110 CFM depending on static pressure.



## Variable Air Volume (VAV) Terminals

With VAV terminals, you gain temperature control through a variable system that provides the desired amount of conditioned air to the workspace. A thermostat signals the terminal to provide air volume as needed. A patented sliding damper adjusts the air volume until the thermostat – and occupant – are satisfied.

## NEW UniLock™ Understructure System



- One universal aluminum head for all system applications
- Supports All Steel, ConCore® and Airflow panels
- Support systems can be mixed and matched without affecting installed height. No "special" transitions required
- Snap-on stringers maintain squareness, provide convenient access without screws
- Provides positive positioning of panel to head without use of stringers
- Move from office to equipment room without understructure modifications or transition pieces



UniLock™ System is an aluminum head uniquely designed to accommodate free-standing, cornerlock, bolted stringer and snap-on stringer configurations, providing the ultimate in flexibility.

## Finishes



### PosiTile®

Tate's engineered PosiTile® is the ultimate floor covering system for use in areas that require static control carpet.

PosiTile®'s modular design precisely matches one carpet tile to one ConCore® panel. Sonically welded buttons maintain dimensional stability to hold the carpet in place without adhesives.

*Sonically welded buttons index with ConCore® panels for a One-to-One® fit.*



### High Pressure Laminate (HPL)

Factory applied HPL is available in a wide range of colors with typical test volume resistance values of  $1.0 \times 10^6$  to  $2 \times 10^{10}$  ohms when tested at 50% RH at 72° F.



### Conductive & Static Dissipative Vinyl Tile

Homogenous solid vinyl tile with conductive elements is available in a variety of colors. Electrical resistance ranges from  $2.5 \times 10^4$  to  $1 \times 10^6$  ohms or  $1 \times 10^6$  to  $1 \times 10^8$  ohms when tested at 20% RH.



### Integral Trim

Tate's unique integral decorative trim is permanently fixed to the panel, eliminating potential for separation from the panel.



### Top Set Trim

Tate's top set trim provides a protective edge when glued to the panel's surface.

### Designer Laminates

Designer laminates are available in various finishes, which have been thoroughly tested. Contact your Sales Representative for selection information.



## Accessories

### Fascia

- Finishes any exposed access floor edges that are not adjacent to walls
- Three heights are available to match standard floor heights
- Plates can be field cut for other conditions

### Ramp and Step Kit

- Provides a transition from the building's slab to the access floor's finished height, using standard access floor components

# All Steel Bolted Stringer Systems



- Lightweight for ease of handling
- Excellent ultimate load performance
- Epoxy paint finish for lifetime protection
- Interchangeable with other panel strengths
- Completely non-combustible
- Excellent grounding and electrical continuity
- Class A flame spread and smoke development rating

## ALL STEEL Performance Selection Chart

SYSTEM TYPE		SYSTEM WEIGHT	STATIC LOADS			ROLLING LOADS		IMPACT LOADS
Solid Panel	Understructure		Concentrated Loads	Uniform Loads	Ultimate Loads	10 Passes	10,000 Passes	
<b>All Steel 1250</b>	Bolted Stringer	7.0 lbs/ft <sup>2</sup> 35 kg/m <sup>2</sup>	1250 lbs 567 kg	300 lbs/ft <sup>2</sup> 14.3 kPa	3800 227 kg	500 lbs 227 kg	500 lbs 227 kg	150 lbs 68 kg

Note: Values apply only to solid All Steel panels for concentrated, ultimate, and impact load capacities which are tested by imposing loads on a one square inch area. Results indicate weakest point of panel. For further information and product specifications, call the Tate Hotline at 1-800-231-7788, or visit [www.tateaccessfloors.com](http://www.tateaccessfloors.com).

# ConCore®



### Panel Features

- Excellent rolling load performance
- Superior ultimate load performance
- Interchangeable panel strengths
- Completely non-combustible
- Lightweight cementitious fill makes panels solid and quiet
- Excellent grounding and electrical continuity
- Class A flame spread and smoke development rating
- Electrodeposition cathodic epoxy paint finish for lifetime protection



All Steel & ConCore® bolted stringer understructure

## ConCore Performance Selection Chart

SYSTEM TYPE		SYSTEM WEIGHT	Concentrated Loads	STATIC LOADS		Ultimate Loads	ROLLING LOADS		IMPACT LOADS
Panel	Understructure			Uniform Loads	10 Passes		10,000 Passes		
<b>ConCore® 1000</b>	Bolted Stringer	8.5 lbs/ft <sup>2</sup> 44 kg/m <sup>2</sup>	1000 lbs 454 kg	250 lbs/ft <sup>2</sup> 11.9 kPa	3000	800 lbs 363 kg	600 lbs 272 kg	150 lbs 68 kg	
<b>ConCore® 1250</b>	Bolted Stringer	9.5 lbs/ft <sup>2</sup> 46 kg/m <sup>2</sup>	1250 lbs 567 kg	300 lbs/ft <sup>2</sup> 14.3 kPa	3500	1000 lbs 454 kg	800 lbs 363 kg	150 lbs 68 kg	
<b>ConCore® 1500</b>	Bolted Stringer	10.5 lbs/ft <sup>2</sup> 52 kg/m <sup>2</sup>	1500 lbs 680 kg	375 lbs/ft <sup>2</sup> 17.9 kPa	5000	1250 lbs 567 kg	1000 lbs 454 kg	150 lbs 68 kg	
<b>ConCore® 2000</b>	Bolted Stringer	11.5 lbs/ft <sup>2</sup> 56 kg/m <sup>2</sup>	2000 lbs 907 kg	500 lbs/ft <sup>2</sup> 23.9 kPa	5750	1500 lbs 680 kg	1250 lbs 567 kg	150 lbs 68 kg	
<b>ConCore® 2500</b>	Bolted Stringer	12 lbs/ft <sup>2</sup> 59 kg/m <sup>2</sup>	2500 lbs 1134 kg	625 lbs/ft <sup>2</sup> 29.8 kPa	6000	1500 lbs 680 kg	2000 lbs 907 kg	150 lbs 68 kg	

Note: Concentrated, ultimate, and impact load capacities are tested by imposing loads on a one square inch area. Results indicate weakest point of panel. Rolling load capacity of ConCore® 2500 is 2000 lbs. for 10,000 passes using a 8" dia. x 5" wide wheel size. For further information and product specifications, call the Tate Hotline at 1-800-231-7788, or visit [www.tateaccessfloors.com](http://www.tateaccessfloors.com).

# NEW ServAir™ Heat Management Solution



- Superior cooling for managing heat loads in mission critical facilities
- High strength, low weight all aluminum die-cast construction
- Three times more airflow than perforated panels
- Seven times more rolling load capacity than perforated panels
- Allows densification of server equipment by 300%
- Fully compatible with all ConCore® and All Steel panel strengths
- Unique pattern creates low vibration for rolling loads
- Guards against obsolescence as heat loads increase due to technological advancement
- Available with damper

# Floating Floors®

## FF3000 & FF1250 Panels



FF1250 Solid Panel



Grated Panel



FF1250 Perforated Panel

### Solid Panel

- Available in a wide selection of conductive and static-dissipative coverings or coatings
- Contains no ferrous materials to disrupt magnetic fields
- Panel to pedestal contact ensures continuous conductivity
- Excellent rolling load performance
- Lightweight for ease of handling

### Grate

- Designed to provide superior airflow
- Unique octagonal design reduces rolling load vibrations
- Fully compatible with FF1250 and FF3000 panels
- A damper can be used to regulate airflow
- Available in a variety of coatings

### Perforated Panel

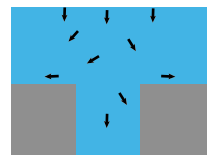
- New 23% open area for standard holes and 28% open area for chamfered holes— a **40% increase**
- Perforated panels provide optimum laminar airflow, without turbulence
- Optional chamfered perforations provide superior particulate control with up to 20% increase in airflow
- Panel to pedestal contact ensures continuous conductivity



3000 LBS. &amp; 1250 LBS. DESIGN LOAD PANELS



Chamfered Air Flow



Standard Air Flow

## Floating Floors 3000 Performance Selection Chart

SYSTEM TYPE Panel	Understructure	SYSTEM WEIGHT	STATIC LOADS (note 1)				ROLLING LOADS (note 2)		IMPACT LOADS
			Concentrated Loads (note 3)	Top Surface Deflection	Uniform Loads	Ultimate Loads	10 Passes	10,000 Passes	
<b>Solid Panels</b>	Stringerless Cornerlock	7.3 lbs./ft <sup>2</sup> 36.7 kg/m <sup>2</sup>	3000 lbs. 1361 kg	.100 inch 2.54 mm	750 lbs./ft <sup>2</sup> 36 kPa	4500 lbs. 2041 kg	2000 lbs. 907 kg	2000 lbs. 907 kg	200 lbs. 90.7kg
	Bolted Stringer	7.6 lbs./ft <sup>2</sup> 37.0 kg/m <sup>2</sup>	3000 lbs. 1361 kg	.100 inch 2.54 mm	750 lbs./ft <sup>2</sup> 36 kPa	4500 lbs. 2041 kg	2000 lbs. 907 kg	2000 lbs. 907 kg	200 lbs. 90.7kg
<b>Perforated Panels</b>	Stringerless Cornerlock	7.1 lbs./ft <sup>2</sup> 34.7 kg/m <sup>2</sup>	3000 lbs. 1361 kg	.100 inch 2.54 mm	750 lbs./ft <sup>2</sup> 36 kPa	4000 lbs. 1814 kg	1500 lbs. 680 kg	2000 lbs. 907 kg	100 lbs. 45.4kg
	Bolted Stringer	7.4 lbs./ft <sup>2</sup> 36.1 kg/m <sup>2</sup>	3000 lbs. 1361 kg	.100 inch 2.54 mm	750 lbs./ft <sup>2</sup> 36 kPa	4000 lbs. 1814 kg	1500 lbs. 680 kg	2000 lbs. 907 kg	100 lbs. 45.4kg

Note:

1. Loads to be applied anywhere on panel; permanent set after application of concentrated load shall be 0.010".
2. Local and beam top surface deformation shall not exceed 0.040", 10 pass test uses a 3" x 1<sup>13/16</sup>" wide phenolic wheel, 10,000 pass test uses an 8" x 5" wide alathane wheel.
3. Loads applied on a one square inch area. Results above indicate weakest point of panel.

## Floating Floors 1250 Performance Selection Chart

SYSTEM TYPE Panel	Understructure	SYSTEM WEIGHT	STATIC LOADS				ROLLING LOADS		IMPACT LOADS
			Concentrated Loads	Top Surface Deflection	Uniform Loads	Ultimate Loads	10 Passes	10,000 Passes	
<b>Solid Panels</b>	Bolted Stringer	6.5 lbs./ft <sup>2</sup>	1250 lbs.	.100 inch	375 lbs./ft <sup>2</sup>	2500 lbs.	1000 lbs.	1000 lbs.	150 lbs.
	Stringerless Cornerlock	32 kg/m <sup>2</sup>	567 kg	2.54 mm	17.9 kPa	1134 kg	454 kg	454 kg	68 kg
<b>Perforated Panels</b>	Bolted Stringer	6.25 lbs./ft <sup>2</sup>	1250 lbs.	.100 inch	375 lbs./ft <sup>2</sup>	2500 lbs.	1000 lbs.	1000 lbs.	100 lbs.
	Stringerless Cornerlock	31 kg/m <sup>2</sup>	567 kg	2.54 mm	17.9 kPa	1134 kg	454 kg	454 kg	45 kg
<b>Grates</b>	Bolted Stringer	7.25 lbs./ft <sup>2</sup>	1250 lbs.	.100 inch	375 lbs./ft <sup>2</sup>	2500 lbs.	1000 lbs.	1000 lbs.	150 lbs.
	Stringerless Cornerlock	35 kg/m <sup>2</sup>	567 kg	2.54 mm	17.9 kPa	1134 kg	454 kg	454 kg	68 kg

Note: Loads applied on a one square inch area. Results above indicate weakest point of panel.

For further information and product specifications, call the Tate Hotline at 1-800-231-7788, or visit [www.tateaccessfloors.com](http://www.tateaccessfloors.com).

# Floating Floors

## FF3000 & FF1250 Understructure

The understructure for the aluminum panels has been designed to accommodate a variety of applications and offers two types: all aluminum or aluminum heads with steel bases.



The understructure has three basic systems:

- Bolted Stringer System
- Cornerlock Stringerless System
- Freestanding Stringerless System



### FF3000& FF1250 ALUMINUM Understructure

- Used where a nonferrous material is required
- Designed for seismic environments
- Base finishes – bare, epoxy powder coat or e-coat
- Head assembly finishes – bare or e-coat
- Axial load performance of pedestal assembly is a minimum of 8,000 lbs.
- Finished floor heights available from 12" – 60"

### Air Exact Damper



- 55 slotted openings, approximately  $2 \frac{3}{8}'' \times 1 \frac{1}{8}''$
- Opening setting is clearly visible from top of panel
- Use a standard T-handle allen wrench tool to adjust the damper opening and to lock it into place
- Material is aluminum alloy 5062
- All hardware is stainless steel
- Easy to disassemble for cleaning
- One damper fits all Floating Floors panels

### FF3000& FF1250 STEEL Understructure

- Designed for seismic environments
- Base finishes – epoxy powder coat, e-coat, or hot-dip galvanized coating
- Head assembly finishes – bare aluminum head with galvanized steel stud, e-coated aluminum head with galvanized steel stud
- Axial load performance of pedestal assembly is a minimum of 10,000 lbs.
- Finished floor heights available from 16" – 60"

### Universal Stringer



- Stringer shall be aluminum  $1'' \times 1'' \times \frac{1}{8}''$ , with a total height of  $1 \frac{3}{4}''$ , and is available in two lengths to accommodate both 24" panels and 60 cm panels
- Stringer shall be bolted to pedestal head and secured with stainless steel fasteners
- Stringer shall be capable of supporting a concentrated load of 200 lbs. at the center of a 24" span without exceeding 0.010" permanent set without panels in place

## CLEAN ROOMS/DATA CENTERS



### 4' x 4' Rigid Steel Frame Understructure

- Available for 60cm and 24" steel or aluminum floor panels
- Designed to minimize frame and panel deflection
- Tolerance and performance compatible with Tate's access floor panels
- Designed for seismic lateral loads per 1997 Uniform Building Code (UMC) without diagonal bracing
- Standard finished floor heights up to 60", non-standard available by special order

**Tate Quality Mission Statement**

We will not only meet the needs of our customers, but strive to continuously improve our products and services to provide superior quality and performance.

**Dealer Network**

Tate has over 150 authorized dealers worldwide to provide installation and service. To find the dealer nearest you, please visit [www.tateaccessfloors.com](http://www.tateaccessfloors.com).

**Tate Hotline**

For technical and sales information, call 1-800-231-7788.

**Showroom Information**

Tel: 410-799-4200

All components proudly



Made in the USA



Rethinking Construction

**Tate**®

ACCESS FLOORS

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