

**ASM**  
innovations in access flooring

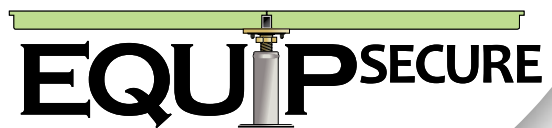


**Protect Your Servers And  
Data By Using ASM.  
Find out how.**



U.S.A. Designed Products  
U.S.A. Quality & Testing  
Global Vision

**Equipment Securing  
Made Easy**



**Don't Waste Your  
Time & Money**

SEE PAGE 16



## **ASM's Enviro Panel:** Most widely used panel design in the world



**ASM's High Strength  
Welded Steel  
Cement Filled Floor Panel**

## High Strength Corners

High strength cement fill, along with steel designed in the corners where it is needed, gives ASM the best corner panel loading in the industry.

- Most widely used panel design in the world
- Full strong corner where it is needed most
- Rigorous performance testing

## Ultimate Load Capacity

The point of failure or collapse is the single most important indicator of performance. Be sure to look at ultimate load when selecting an access floor panel for your application.



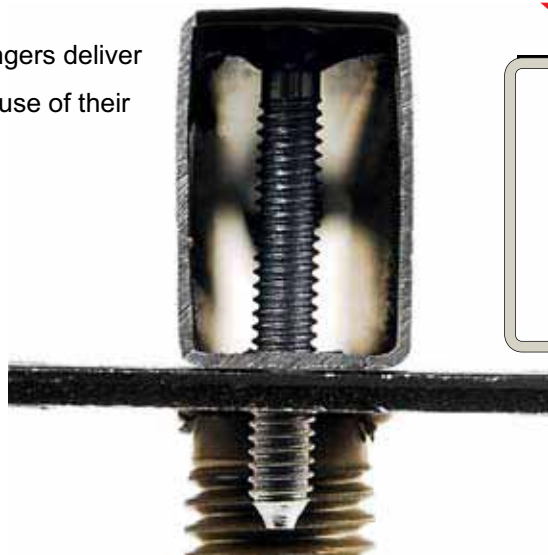
Kingspan Group PLC is a publicly traded company, specializing in the manufacture and sale of innovative building materials and components. Rigorous quality control systems and procedures ensures ASM produces only the highest quality products. ASM is a long-standing member of CISCA.



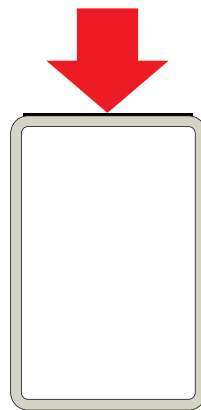
# ASM's Three Unrivalled Features That Deliver The Strength And Safety You Need In Your Data Center

## 1 Rigid Grid Understructure with Box Stringer

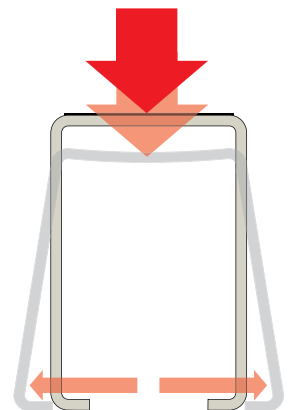
ASM's new high strength stringers deliver unprecedented strength because of their unique solid tube design.



ASM's Solid Tube Design



Conventional U-shaped stringer



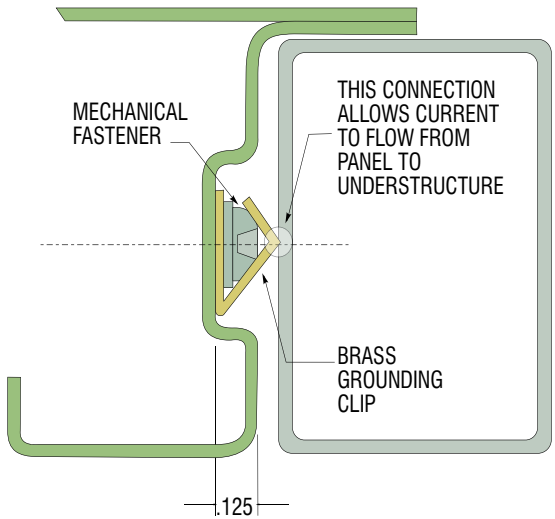
## 2 PGD Electrical Grounding Clip

Is your floor grounded? If there is electrical build-up or a grounding problem on top of the floor, it can cause major problems and shut down your system.

ASM is the only manufacturer to comprehensively address grounding problems by incorporating a solid brass Positive Grounding Device (PGD patent pending) in every panel as standard equipment. A small detail solves a critical problem.



PGD Grounding Clip supplied on all computer room panels

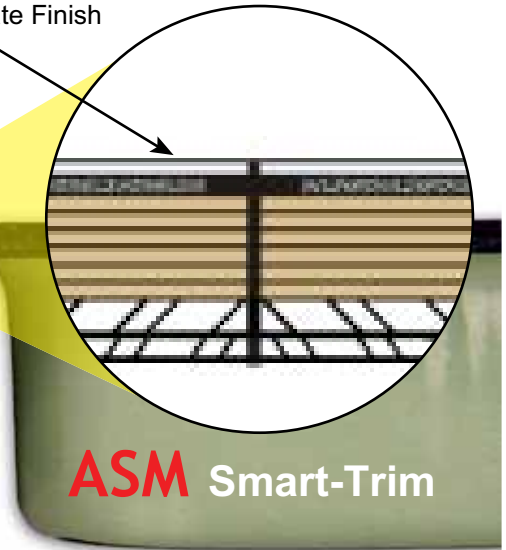
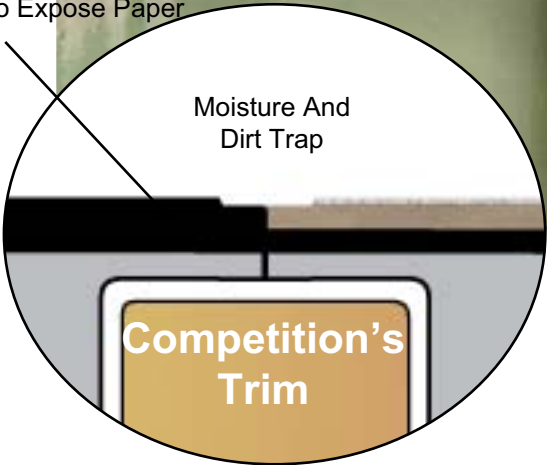


## 3 Smart-Trim

- ✔ No dust
- ✔ No Exposed Paper or Particles
- ✔ Smooth Transition

Seamless Laminate Finish  
Perfectly Smooth Flush Joints

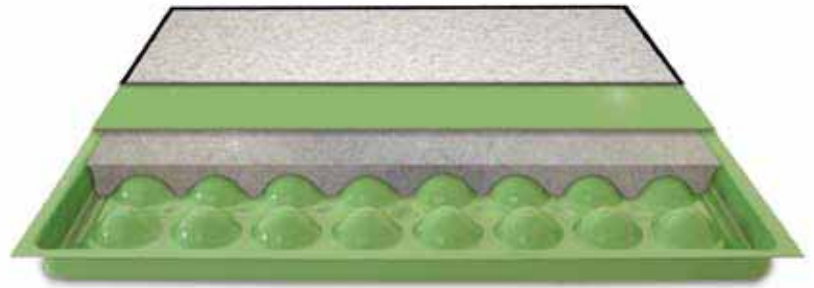
Protective Overlay Surface Removed To Expose Paper Core



**ASM** Smart-Trim

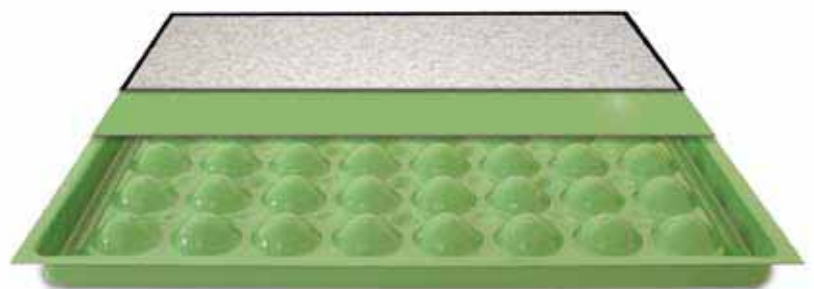
# FS-Series Enviro-Panel Concrete Filled Welded Steel Panels

Our best seller, the FS-Panel system, is constructed of a welded structural steel assembly designed to accommodate ultimate and dynamic loads. Its specially formulated cementitious fill and powder coated epoxy finish give the FS panel a quiet and very solid feel underfoot. Panel systems are available in both 24" x 24" and 600mm x 600mm.



# S-Series Enviro-Panel Hollow Welded Steel Panels

The S-Series hollow steel panel system uses the same welded steel technology found in the FS panel. With its high strength and light weight, the S-Series panel is the product of choice for many computer room applications. This panel has the ability to



interchange with the FS panel, allowing for ultimate flexibility in flooring design. Panel systems are available in both 24" x 24" and 600mm x 600mm.

The Ultimate Load is considered the single most important test in the CISCA series, as it indicates when panel failure occurs.

# MC125 Metal Clad Woodcore Systems

Class A Flame Spread Rating  
Internally Grounded  
Light Weight  
Quiet

The ASM MC125 Panel is constructed of a high density composite core encased in a sheet metal shell. The MC Systems offer high performance characteristics in a fair valued product. Its solid feel and light weight offers an economical solution to your access floor needs.



## S-Series Performance Guide

Panel	Ultimate Load		Concentrated Load		Impact Load		Rolling Load 10-Pass		Rolling Load 10,000-Pass	
	lb.	(kN)	lb.	(kN)	lb.	(kN)	lb.	(kN)	lb.	(kN)
S100	3200	(14.23)	1000	(4.45)	150	(0.67)	400	(1.78)	400	(1.78)
S200	4500	(20.02)	1250	(5.56)	150	(0.67)	500	(2.22)	500	(2.22)
S300	5000	(22.24)	1500	(6.67)	150	(0.67)	600	(2.67)	600	(2.67)

Notes: ASM Products are tested by a certified United States testing company. Certified test reports in accordance to CISCA test procedures are available upon request.

## FS-Series Performance Guide


Panel	Ultimate Load		Concentrated Load		Impact Load		Rolling Load 10-Pass		Rolling Load 10,000-Pass	
	lb.	(kN)	lb.	(kN)	lb.	(kN)	lb.	(kN)	lb.	(kN)
FS100	3300	(14.68)	1000	(4.45)	175	(0.78)	800	(3.55)	600	(2.67)
FS200	3900	(17.35)	1250	(5.56)	175	(0.78)	1000	(4.45)	800	(3.55)
FS300	5400	(24.02)	1500	(6.67)	175	(0.78)	1250	(5.56)	1000	(4.45)
FS400	6300	(28.02)	2000	(8.90)	200	(0.89)	1500	(6.67)	1200	(5.34)
FS500	7000	(31.14)	2500	(11.12)	200	(0.89)	2000	(8.90)	1800	(8.01)

Notes: ASM Products are tested by a certified United States testing company. Certified test reports in accordance to CISCA test procedures are available upon request.

## MC125-Series Performance Guide

Panel	Ultimate Load		Concentrated Load		Impact Load		Rolling Load 10-Pass		Rolling Load 10,000-Pass	
	lb.	(kN)	lb.	(kN)	lb.	(kN)	lb.	(kN)	lb.	(kN)
MC125	3000	(13.34)	1250	(5.56)	150	(0.67)	1000	(4.45)	800	(3.55)

Notes: ASM Products are tested by a certified United States testing company. Certified test reports in accordance to CISCA test procedures are available upon request.



# ASM Raises the Bar Atlas ASM's Heavy Duty Pedestal Systems



## ASM's Understructure

### Atlas Seismic Pedestals

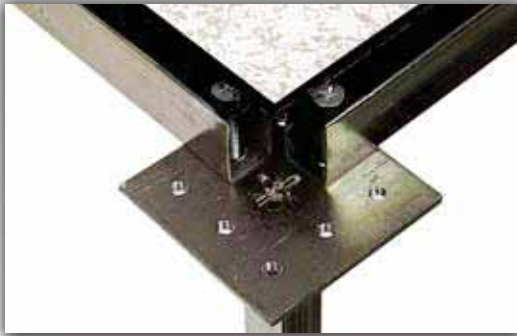
ASM offers the most comprehensive variety of pedestal types allowing for durable strength in any of zones 1 through 4. This full line of pedestals can further be strengthened by bolting them to the concrete slab for the most solid access flooring systems available.







# Rigid Grid

Offering great lateral support, this system is generally used where the panels are gravity held on the understructure. Stringers are available in 2' (600 mm) and 4' (1200 mm) lengths allowing for standard (2' x 2'), (4' x 2') or (4' x 4') basketweave installations.



Every ASM stringer boasts solid tube construction to resist bowing and spreading during load impacts, and a solid vinyl strip for a snug, quiet fit between stringer and panel.

**All of ASM's parts are dipped in a corrosion-resistant, zinc whisker-resistant finish after stamping and welding, to protect welds and raw edges from rusting.**

-  All pedestals are dipped after stamping and welding to protect welds and raw steel edges against rust.
-  Versatile understructure for all types of installations

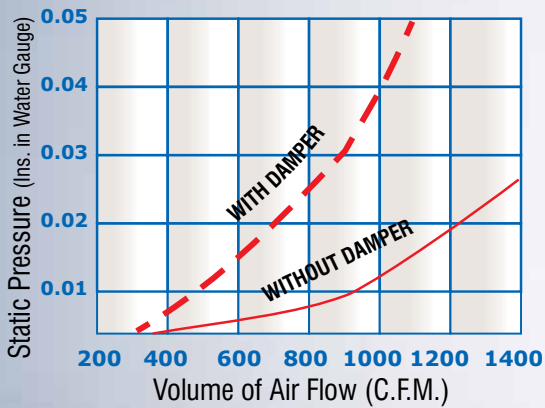


# ASM's Air Flow Panels

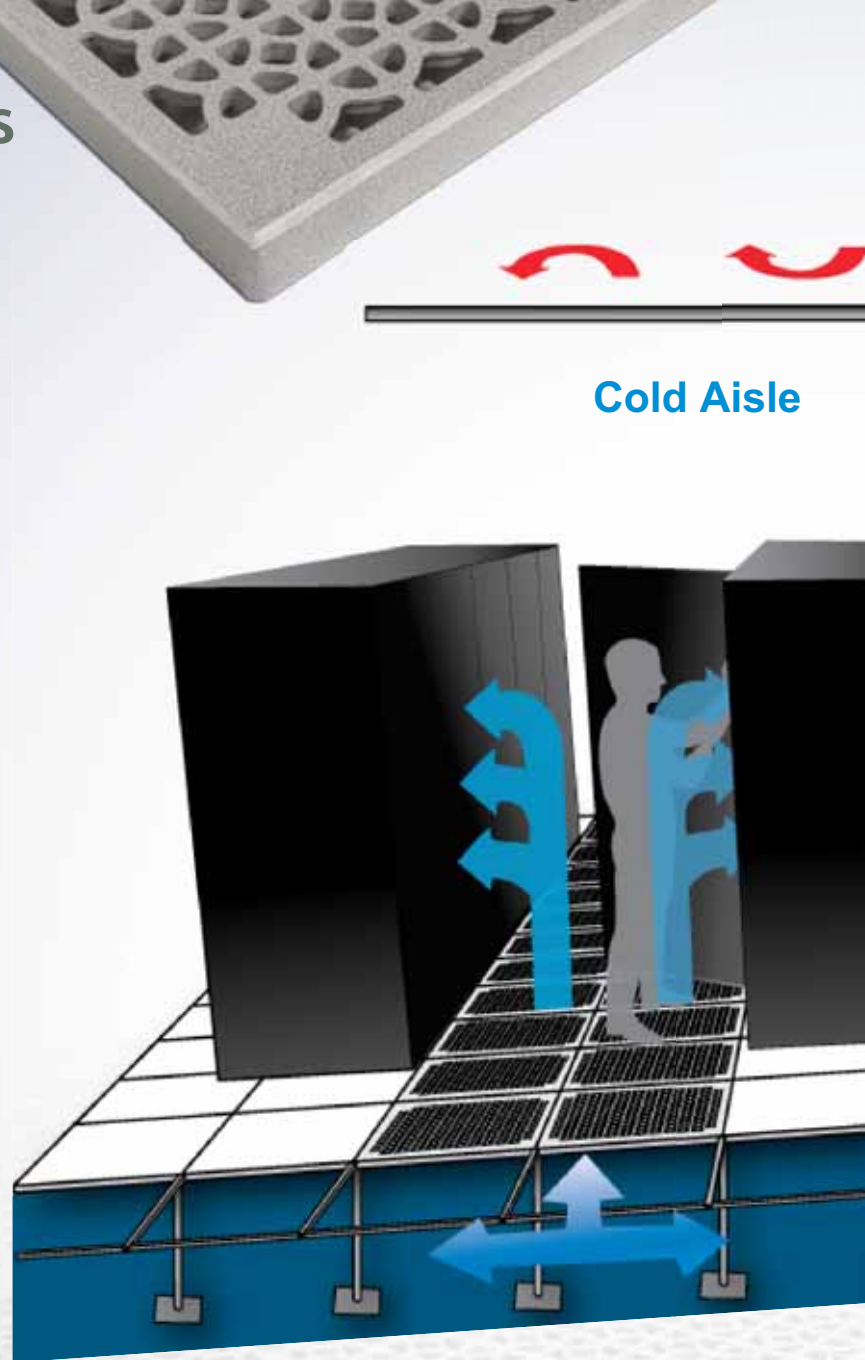
## Aluminum Accel-Air Panel AF500

### Made of High Strength Cast Aluminum

For cold aisles the Accel-Air strong and durable panel has a free open area of 56% for those applications requiring the highest cooling conditions. Accel-Air panels can be finished in powder coat epoxy paint.

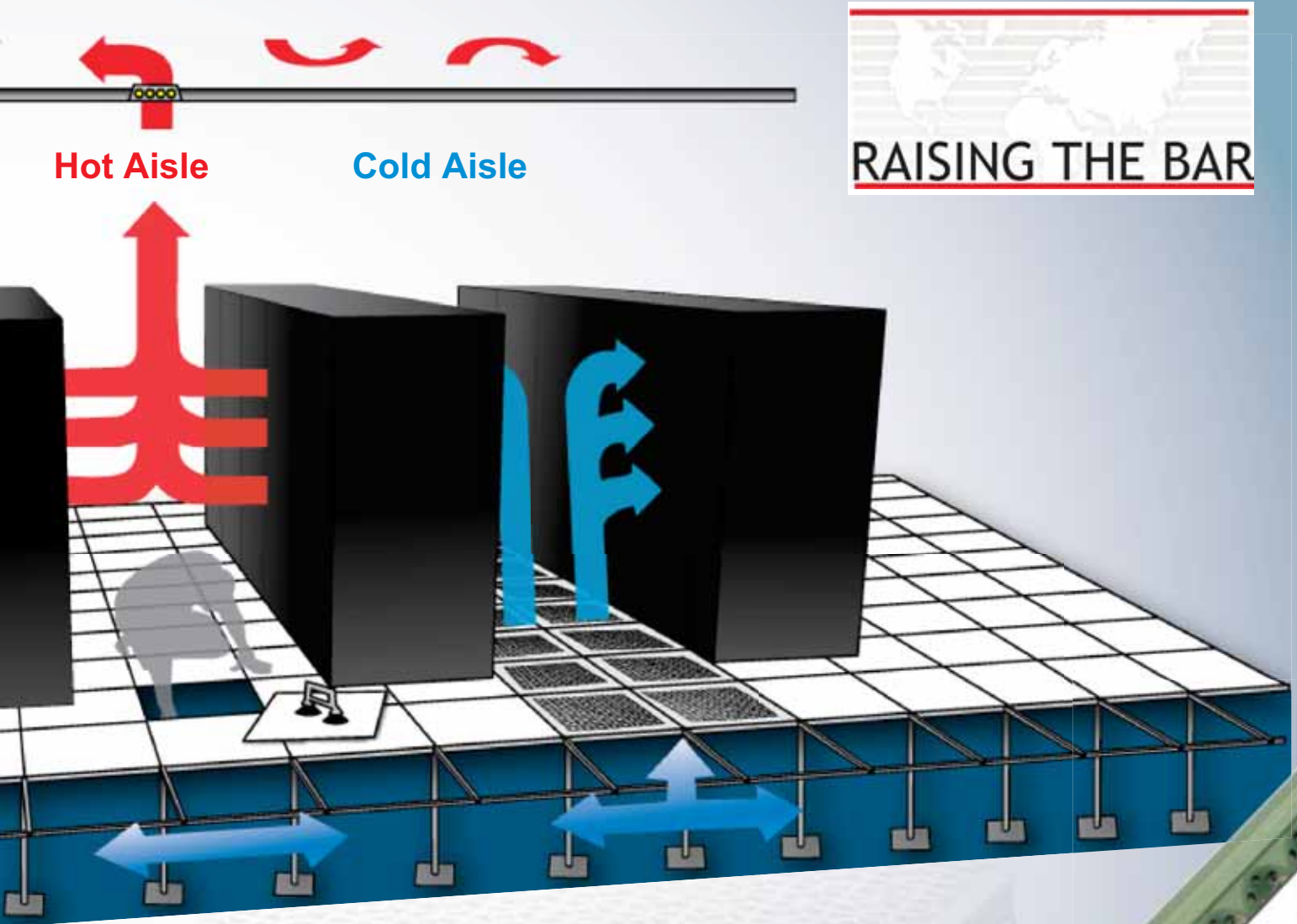


- 56% Open Air
- Slide Damper System
- Built and Sized For Any Floor System



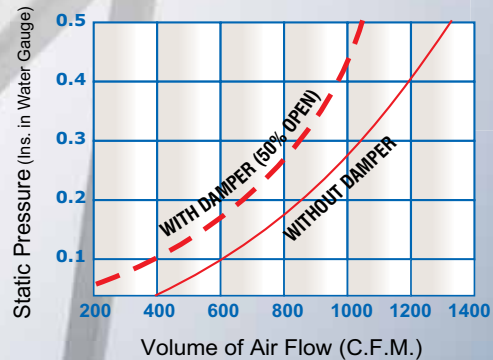
Cold Aisle

# Keeping Your Servers Cooled



## AF200

ASM's AF200 perforated panel is part of a series of air flow panels, has a free area of 25% and comes with or without mechanical dampers.

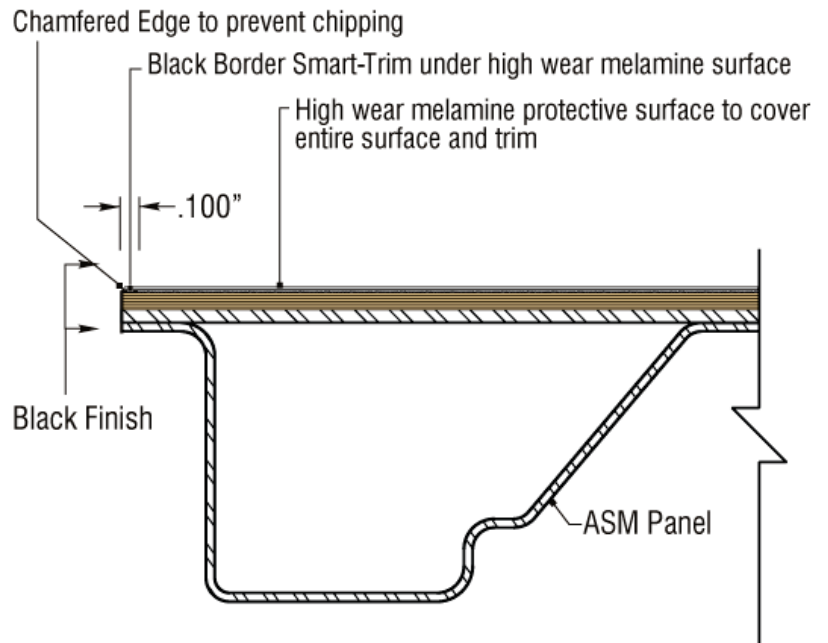


# ASM Smart-Trim (Patent Pending)

## Innovations in Access Flooring

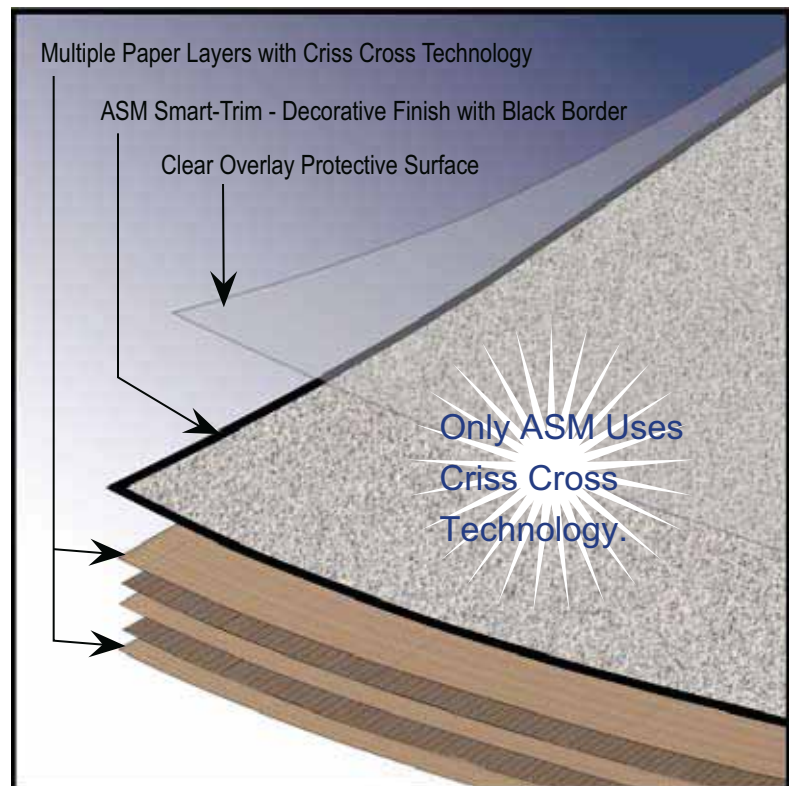
Smart-Trim  
Technology

**SMOOTH  
SEAMLESS  
WEARPROOF**



## A Breakthrough in Laminate Technology

- **20% Better wear surface results than competition.**
- Revolutionary trim that is printed into the laminate under the high wear finish.
- No routing or removal of high wear surface.
- No exposed paper core to absorb dirt and moisture
- No recess or step down. Reduces chipping and caster noise. Eliminates dirt trap.
- No surface applied paint or inks - cannot wear off.



# ASM's Laminate

with Platts Technology

Designed Specifically for Raised Access Floors in Conjunction with Platts Laminate Technologies.

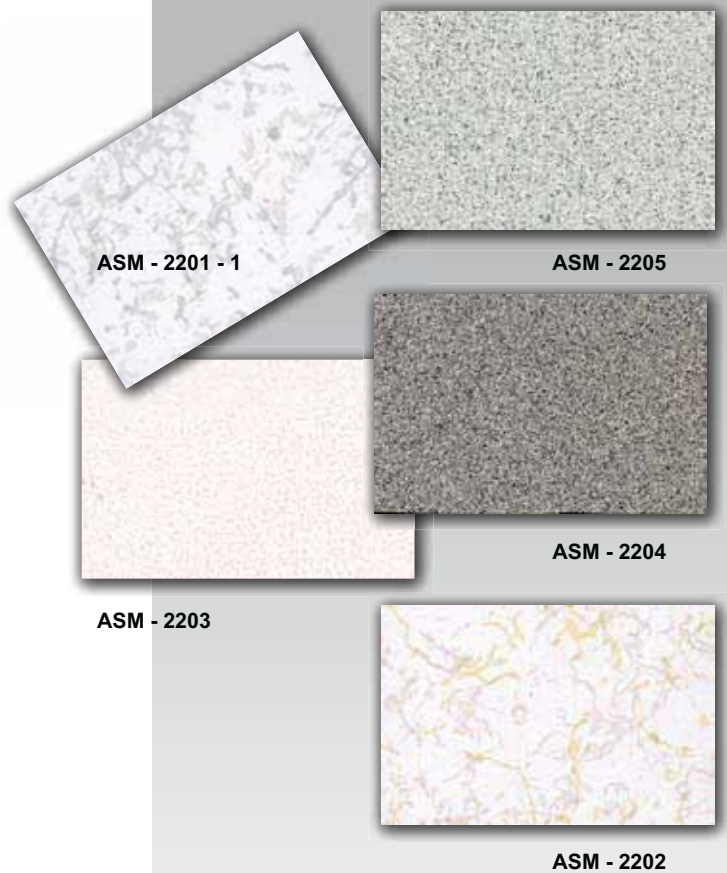
High pressure plastic laminate is used in 90% of all computer room applications, and is the largest product used on factory laminated floor finishes. Laminate is a one piece tile (24" x 24"), and unlike vinyl, will provide a uniform finish with no joints. HPL has the advantage of not requiring wax or maintenance that could produce static problems in the data center.

“Optimized Resin Formulas And Press Time For The Best Performance.”

- F. Holbrook Platts

## ASM Laminate Performance Specifications

Properties	NEMA Test Method	NEMA Standard	ASM Laminate Results
Electrical Resistance	NFPA 99	-	1.0 x 10 <sup>9</sup> - 2.0 x 10 <sup>10</sup>
Stain Resistance	3.4	No effect	No effect
Boiling Water Resistance	3.5	No effect	No effect
High Temperature Resistance	3.6	Slight effect	No effect
Wear Resistance	3.13	3000 cycles(min.)	5000+
Scuff Resistance	3.16	No effect	No effect



## F. Holbrook Platts

Mr. Platts is the worldwide expert in industrial and decorative High Pressure Laminate Technologies and boasts over 40 years industry experience with industry giants Westinghouse (Micarta Division), International Paper and Nevamar. Mr. Platts also served on ASTM and NEMA standards and technical committees for the laminates and building products industries for over 30 years.

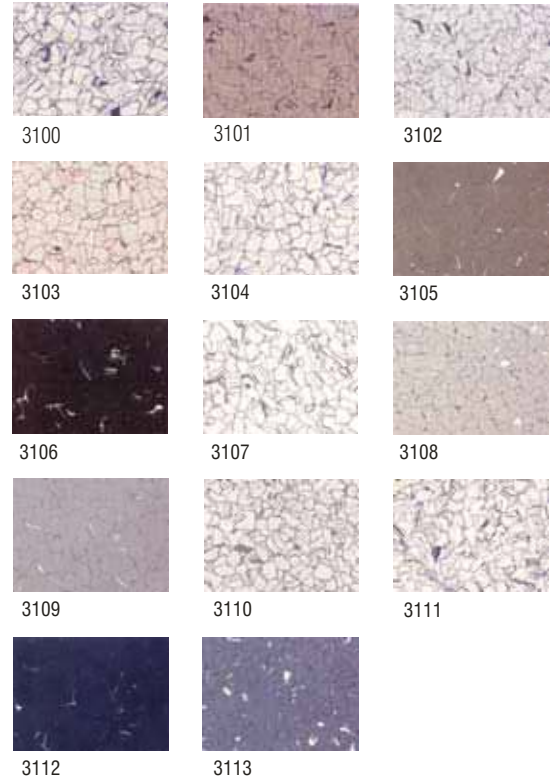


# ASM's Vinyl Plastic Technologies

The use of VPT conductive or static dissipative floor covering checks the influence of electrostatic charges in the sensitive work places. The effects of electrostatic influence is very serious, and many incidents include damage to integrated circuits in semiconductor production and loss of valuable data caused directly by a build up of static electricity.

Static discharge may also cause inadvertent ignition of inflammable and explosive substances. When two objects with electrostatic charge come into contact, electron movement occurs with electrification to positive and negative poles which are stationary at the points of mutual contact.

Direct action against these points will cause instantaneous electric discharge, resulting in product damage, pollution or malfunction. Both UL and NFPA strongly recommend the use of conductive floor coverings.



Superior polished finish that maintains its conductivity and appearance, in 14 designer colors.

Performance	Conductive	Static Dissipative
Resistance: point to ground	$2.5 \times 10^4$ to $10^6 \Omega$	$10^6 \Omega$ to $10^8 \Omega$
Resistance: point to point	$2.5 \times 10^4$ to $10^6 \Omega$	
Static Decay	5000 to 0 volts in < 0.01 sec	5000 to 0 volts in < 0.2 sec

VPT sizes: 24 inch x 24 inch, 12 inch x 12 inch, 60 cm x 60 cm, 30 cm x 30 cm. Custom size if requested.



## Lifetime Conductivity Warranty Resistant To Chemicals.



### Where VPT is recommended:

- 🌿 Electronic Manufacturing Facilities
- 🌿 Computer/Server Room Installations
- 🌿 Cleanrooms
- 🌿 Assembly Factories
- 🌿 Telecommunications Rooms
- 🌿 Healthcare Laboratories

ASM's

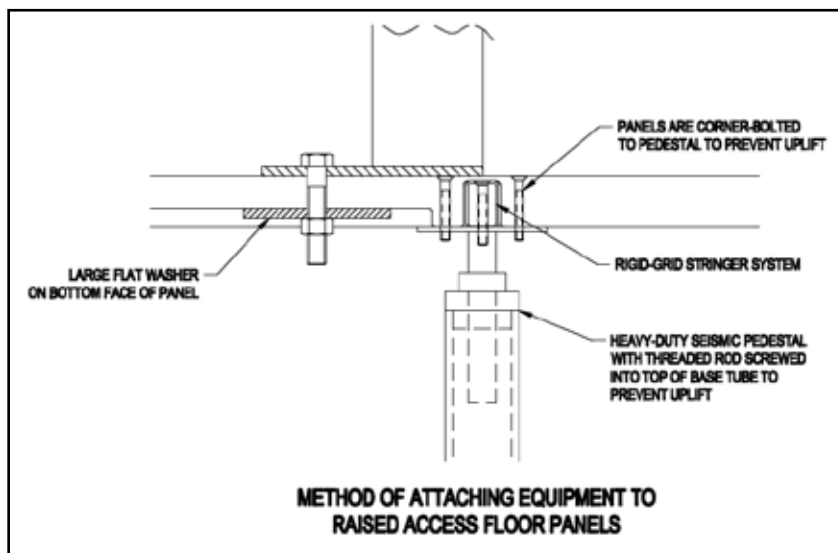
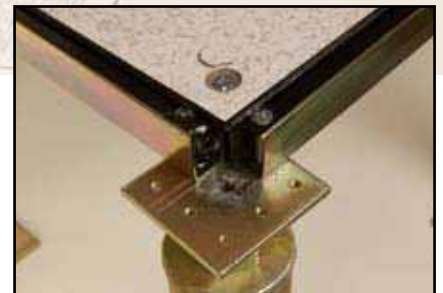
# EQUIPSECURE

Equipment Bracing System

Don't Waste Your Time & Money on Complicated Bracing Schemes

## 3 Easy Steps

1. Choose a Type 2 or 3 EQUIPsecure pedestal system to install under equipment
2. Install ASM EQUIPsecure panels under equipment
3. Bolt equipment to access floor panels



Equipment Bracing Made Easy

Contact an ASM Equipsecure Specialist to Assist You.



# ASM's Accessories

## Lifting Devices

ASM provides a variety of lifting devices, including double suction cup and airflow panel lifters - designed to make installations and alterations simple. They can be easily stored in Lifter Wall Mount Brackets.

## Cable Tray

**FLEXTRAY'S** Raised Floor (RF) System provides maximum accessibility and flexibility for your raised floor cabling needs.

### Self Supporting

Patented vertical support that does not compromise raised floor support weight limitations or warranties.

### No Stringer Types to Consider

RF system is not suspended from tile stringers - it is independently supported, meaning no variables or regulations to consider.

### Easy Drop-In Design

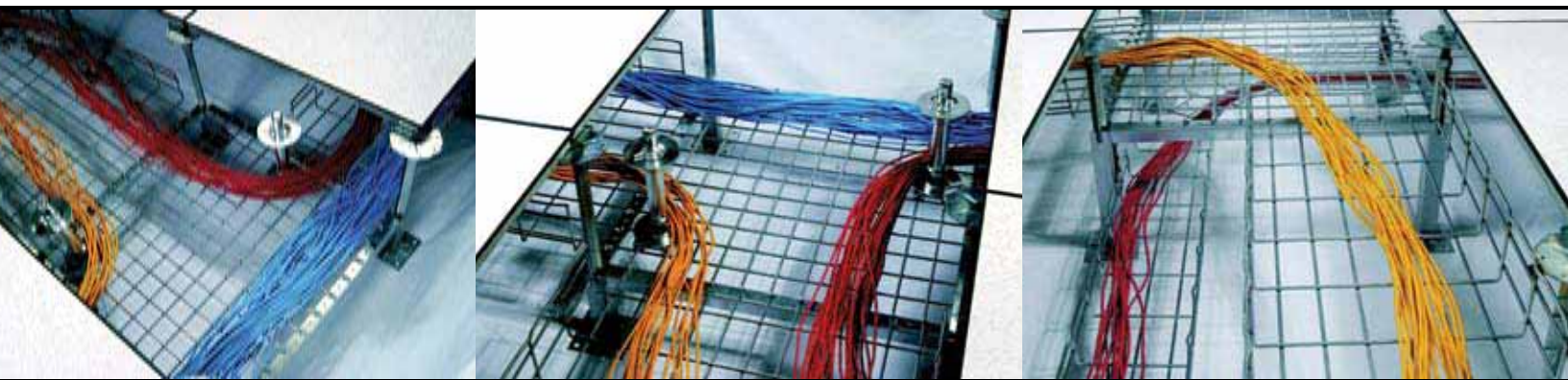
RF components are designed to fit 24" RF designs - just drop through tile space and lock into place - no fastening required. No cutting or splicing needed.

### Add More RF Easily

Additional runs and layers of RF can easily be added or changed without waste, demolition or lost time.

### Multiple Tray Sizes

24, 12 and 6 inch standard sizes. Others available upon request.



## ASM's Seismic Braces

For those highest risk seismic projects, ASM offers one, two, three and four leg seismic braces that can easily be attached to any ASM pedestal for ultimate lateral support.

## Grommets & Trims

Grommets and trims allow for simple connection of electronics through clean and attractive cut-outs. The face of the grommet slides to provide for cable adjustment.





# ASM Data Center

**Acterna**  
Germantown, MD  
45,000 square feet



## 85 Data Centers Consolidating in 3 U.S. Cities

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Hewlett-Packard Co. said it would consolidate its 85 data centers around the world into six large facilities in the United States, aiming at \$1 billion (U.S.) in annual savings.

HP said that after the consolidation, its information technology infrastructure would be run from Atlanta, Houston and Austin, TX, with two facilities in each city.

Part of the gain from the move will come from utility cost savings of up to 25 percent.

The data center sites were chosen based on the costs of the space, the available power and network connections, as well as lower vulnerability to natural disasters, the company said.

**Hewlett-Packard**  
Multiple Sites in  
North America  
600,000+ square feet



**AT&T/SBC**  
Multiple Sites in  
North America  
125,000 square feet



# Innovations in Access Flooring

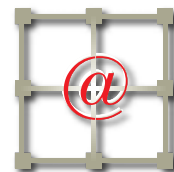


**QTS**  
**Quality**  
**Technology**  
**Services**

Atlanta, GA  
200,000+ square feet



**TQL**  
**Total Quality**  
**Logistics**  
Cincinnati, OH  
100,000 square feet



**ASM**  
innovations in access flooring



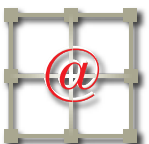
In addition to being the largest access flooring manufacturer in the world, the Kingspan group is a major manufacturer of an integrated range of products for the construction industry. The Group continues to innovate and improve on an existing product range, and have done so successfully for over 30 years. These innovations are clearly seen within Kingspan's emphasis on Modern Methods of Construction and importance on increasingly sustainable buildings.

The Group's companies have a presence around the world that is ever increasing.

**For more information about Kingspan please visit us at [www.kingspan.com](http://www.kingspan.com).**



## *Green Building Technology*



**ASM**  
innovations in access flooring

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**[www.asmproducts.com](http://www.asmproducts.com)**

