



TECHNICAL FLOORING SOLUTIONS

World-class technical flooring solutions specially designed to achieve modularity, efficiency, and security. Sy-G offers a complete range of solutions, as well as a suite of accessories for maximum performance.



INDEX

CATEGORY

TECHNICAL FLOORING SOLUTIONS



The flooring system complies with the National Standard, Grade A-1 for fire performance-rating under ASTM E84-01 (Standard Test Method for Surface Burning Characteristics of Building Materials), categorized as incombustible with zero (0) flame speed index and zero (0) smoke density rating. The system also has a 106 - 1010 Ω static dissipative resistance.

Our Technical Flooring solutions portfolio includes two different types of products: Raised Access Floor and ESD Vinyl Tiles.

RAISED ACCESS FLOOR

ELECTROSTATIC DISCHARGE (ESD) VINYL TILES



NOMENCLATURE

Series	Material Type	Load Capacity (lbf) or Perforation Percentage	Internal Code	
MC: Mission Critical OA: Office Applications	FS: Filled Steel WC: Wood Core CS: Calcium Sulphate PPS: Perforated Panels Steel PPA: Perforated Panels Aluminum	650 : : : 2000 --- 25 56	Internal Kardex Code	
Model	MC	FS	1000	ZI

*Note: For perforated panels, instead of load capacity the value is associated with perforation percentage.



RAISED ACCESS FLOOR

Raised access floor designed for mission-critical applications (e.g. data centers, telecom switch centers, call centers, etc.), where underfloor cooling distribution and cable management is important. Raised access floor systems consist of two main components: the understructure and the panels (specific design according to different applications).

Understructure



FEATURES

- *Constructed of galvanized steel to eliminate zinc whiskers*
- *The bolted stringer system integrates pedestal bases, adjustable pedestal heads, stringers, and fasteners*
- *The standard pedestal height ranges from 4" (102 mm) to 48" (1222 mm) and are manufactured to comply with customized specifications*
- *Optional entry ramps or steps*
- *Optional seismic brace, which can be easily attached to any pedestals for ultimate lateral support*

BENEFITS:

- *Provides a strong and secure platform for mission-critical equipment*
- *A higher durability than competitor products due to its high quality materials*
- *Flexibility and modularity, to meet any customers' requirements*

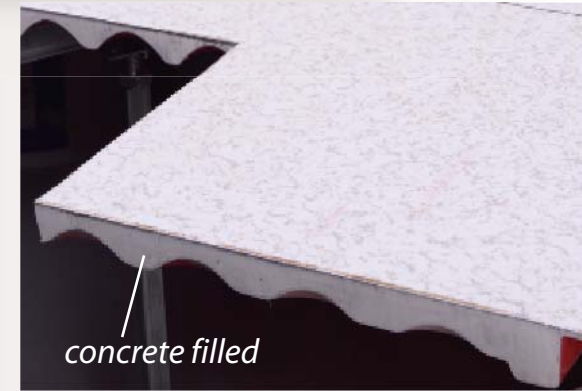




MISSION-CRITICAL APPLICATIONS

MC SERIES

CONCRETE FILLED STEEL



FEATURES

- The panel is built with high-quality deep-stretched steel; on top SPCC material and for the bottom ST14 material, both joint together by resistance welding. The panel is painted with epoxy powder and infilled with light cement.
- The top steel sheet of the panel is stuck-on with anti-wear and a 1.6 antistatic High-Pressure Lamination (HPL)
- The panel systems are available in both metric standard (600 mm x 600 mm) and imperial standard (24" x 24")
- The panels are finished with integral trim technology that reduces chipping

BENEFITS:

- Robust and stable support structure. A higher durability than competitor products due to its high quality materials (e.g. HPL core, manufactured from virgin paper to eliminate cracking)
- Safety and standard accomplishment (IEC 61000-4-2 & TIA-942)
- Distinguished decorative finish

TECHNICAL SPECIFICATIONS: MC SERIES CONCRETE FILLED STEEL

MODEL	Concentrated Load			Impact Load		Ultimate Load		Uniform Load		Rolling Load				Average System Weight per m ²
	N	kgf	lbf	N	kgf	N	kgf	N/m ²	kgf/m ²	10 passes		10,000 passes		
										N	kgf	N	kgf	
MCFS800ZI	≥3,596	≥367	≥808.41	780	80	≥10,799	≥1,101	≥19,796	≥2,019	≥2,959	≥302	≥2,215	≥226	39.34
MCFS1000ZI	≥4,498	≥459	≥1011.19	780	80	≥13,494	≥1,376	≥23,294	≥2,375	≥3,596	≥367	≥2,959	≥302	43.46
MCFS1250ZI	≥5,595	≥571	≥1257.81	780	80	≥16,797	≥1,713	≥33,084	≥3,374	≥4,498	≥459	≥3,596	≥367	51.73
MCFS1500ZI	≥6,693	≥682	≥1504.65	780	80	≥20,090	≥2,049	≥42,581	≥4,342	≥5,595	≥571	≥4,498	≥459	55.75
MCFS2000ZI	≥8,898	≥907	≥2000.35	780	80	≥26,685	≥2,721	≥49,784	≥5,077	≥6,693	≥682	≥5,595	≥571	64.12

(1) — Certifications & Standards: ISO 9001 ; ISO 14001 ; CE ; CISCA ; VOC ; TUV

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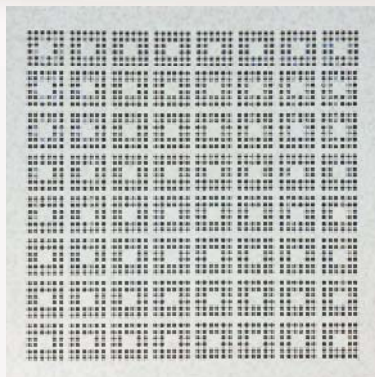




MISSION CRITICAL APPLICATIONS

MC SERIES

PERFORATED PANELS



FEATURES

- Exactly the same size and finish as anti-static solid panels, but built with hollow cavity
- Steel and aluminum panels are punched with ventilation holes
- Perforated panels vary from 25% to 56% perforations
- The panel systems are available in both metric standard (600 mm x 600 mm) and imperial standard (24" x 24")
- Slide damper (optional)

BENEFITS:

- Steel and aluminum-perforated panels allow underfloor air conditioning to flow through the floor up to equipment

TECHNICAL SPECIFICATIONS: MC SERIES PERFORATED PANELS

Type	Concentrated Load			Safety Factor
	N	Kgf	lbf	
MCPPA56ZI	6672.33	3300	1500	>2
MCPPS25ZI	404.79	200.2	91	

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OFFICE APPLICATIONS

OA SERIES

CONCRETE FILLED STILL

Raised access floor designed for spaces that need flexible installation and easy layout of cabling and wiring, such as telecommunication rooms, computer rooms, banks, smart offices and other anti-static requiring places.



FEATURES

- The panel is constructed with still plate. For the bottom, ST14 material is used, while for the top SPCC.
- The panel is coated with epoxy paint and infilled with light cement.
- The panel systems are available in metric standard (600 mm x 600 mm) and imperial standard (24" x 24")

BENEFITS:

- Robust and light-weight
- Isolates noise
- Particularly suitable for areas of high humidity.
- High-quality, durable materials
- Modularity and Flexibility

TECHNICAL SPECIFICATIONS: OA SERIES CONCRETE FILLED STILL

MODEL	Size	Concentrated Load			Impact Load		Ultimate Load		Uniform Load		Rolling Load				Average System Weight per m2
		N	kgf	lbf	N	kgf	N	kgf	N/m2	kgf/m2	10 passes		10,000 passes		
	mm										N	kgf	N	kgf	kg
OAFS668ZI	600 x 600 x 35	≥2,290	≥234	≥514.18	780	80	≥8,890	≥908	≥12,500	≥1274.88	≥2,215	≥226	≥1,548	≥158	33.34
OAFS800ZI	600 x 600 x 35	≥3,596	≥367	≥808.41	780	80	≥10,799	≥1,101	≥19,796	≥2,019	≥2,959	≥302	≥2,215	≥226	39.34
OAFS1000ZI	600 x 600 x 35	≥4,498	≥459	≥1011.19	780	80	≥13,494	≥1,376	≥23,294	≥2,375	≥3,596	≥367	≥2,959	≥302	43.46
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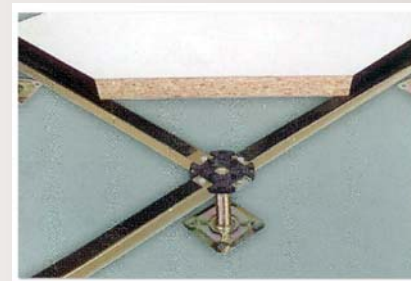
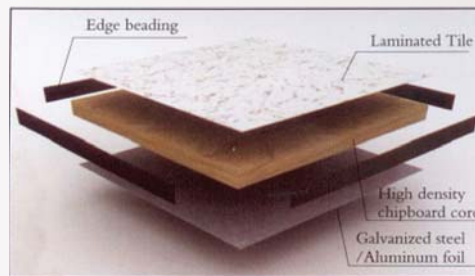
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OFFICE APPLICATIONS

OA SERIES WOOD CORE

Raised access floor designed for spaces that need flexible installation and easy layout of cabling and wiring, such as telecommunication rooms, computer rooms, banks, smart offices and other anti-static requiring places.



FEATURES

- The panel is constructed with high-density chipboard core encapsulated in full galvanized steel encasement.
- The panel systems are available in metric standard (600 mm x 600 mm) and imperial standard (24" x 24")
- 1.6 mm anti-static High Pressure Lamination (HPL)

BENEFITS:

- Robust and light-weight
- Isolates noise
- Particularly suitable for areas of high humidity.
- High-quality, durable materials (e.g. HPL core, which is manufactured from virgin paper to eliminate cracking)
- Elegant decorative finish

TECHNICAL SPECIFICATIONS: OA SERIES WOOD CORE

TYPE	Concentrated Load			Impact Load	Ultimate Loas	Uniform Load	Rolling Load	
	N	Kgf	lbf				10	10000
OAWC650ZI	≥2990	≥1478	≥672.17	670	≥8890	≥12500	2215	1548
OAWC800ZI	≥3596	≥1778	≥808.41	670	≥10799	≥19796	2959	2215
OAWC1000ZI	≥4498	≥2224	≥1011.19	670	≥13494	≥23294	3596	2959

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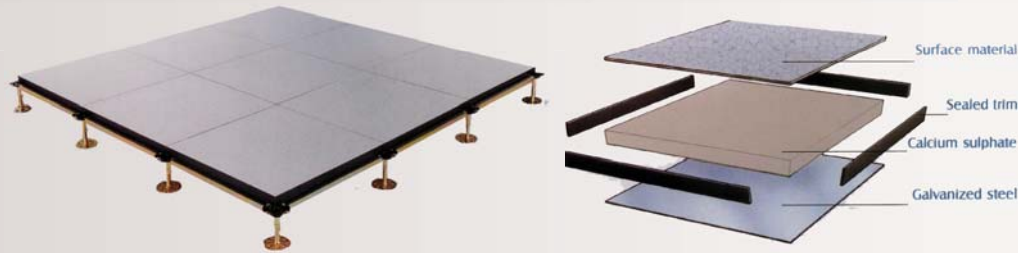
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OFFICE APPLICATIONS OA SERIES

OA SERIES CALCIUM SULPHATE



FEATURES

- Calcium sulphate core, steel bottom surface, HPL or PVC top surface, and PVC edges
- Easy to interchange other types of panels
- The panel systems are available in both metric standard (600 mm x 600 mm) and imperial standard (24" x 24")

BENEFITS:

- High-strength panels for intensive loads
- Excellent mechanical properties
- Waterproof, fireproof, and rot-proof
- Acoustic absorption
- Reduced sensitivity to humidity and temperature
- Outstanding antistatic performance
- Good sealing

TECHNICAL SPECIFICATIONS: OA SERIES CALCIUM SULPHATE

Type	Concentrated Load			Impact Load	Ultimate Load	Uniform Load	Rolling Load	
	N	Kgf	lbf				10	10000
OACS1000ZI	≥4498	≥2224	≥1011.19	670	≥13494	≥23294	3596	2959
OACS1200ZI	≥5595	≥2767	≥1257.80	670	≥16797	≥33084	4498	3596

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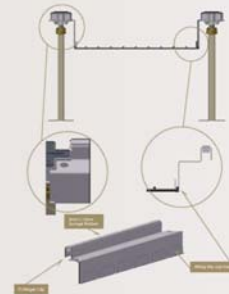
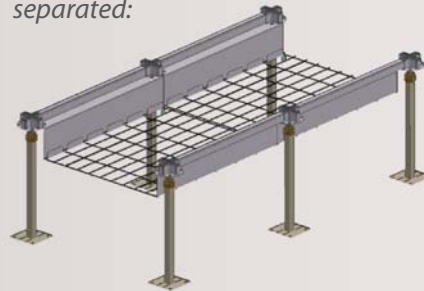


RAISED ACCESS FLOOR

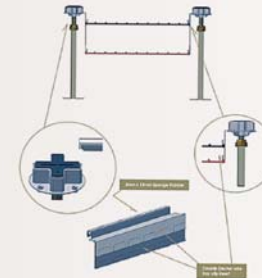
ACCESSORIES

IT GRIDS

IT Grids are an under-the-floor cable routing system to create a versatile pathway to route and manage the data and power network beneath the raised floor. It can be comprised of a single wiring tray, or double wiring tray, where services can be separated:



The Single Wiring Tray photo



The Double Wiring Tray photo.

BENEFITS:

- Robust construction
- Quick installation
- Integral grounding and bonding

FAN UNITS

Fan units are specially designed to provide cooling support on specific spots of the raised floor. The units have multiple control options to automatically turn on when additional cooling is needed. These powerful solutions are ideal to eliminate the toughest hot spots in data centers.



- Multiple control options
- VN, client sensor network
- User programmable set point
- Variable fan speed for precise airflow control



- Easy installation
- No maintenance required
- High-precision, quick-response temperature measurement



RAISED ACCESS FLOOR

ACCESSORIES

AIR GROMMETS

Air Grommets are economic and effective accessories to cover cable openings, eliminate bypass airflow, and optimize the cooling management of the raised floor plenum. Air Grommets are available in a variety of colors and sizes offering various designs and color schemes.

- Reduces air loss and increases under-floor static pressure
- Improves cooling efficiency in the raised floor plenum
- Reduces hot spots
- Lowers energy consumption and improves PUE index
- Prevents under-floor contamination by sealing cable openings
- Extends cooling equipment lifespan



L-MOLDING

L-molding is used to line panel interiors when they have been cut, typically to allow the installation of cables entering through the raised floor, and to prevent plenum air leakage. The rigid plastic is made of injection-molded resins and is resistant to chipping or breakage.



LIFTING DEVICE

Lifting devices allow fast and simple removal of floor panels to make installations and re-designs easy. There are a variety of lifting devices including double-suction cups and airflow panel lifters with very high load ratings and are ready-to-use. They can be easily stored in lifter wall mount brackets.





ELECTROSTATIC DISCHARGE

ESD SERIES

VINYL FLOOR TILES

ESD floor tiles are commonly used for telecom, electronic industries, cell-type machine rooms, computer rooms, and clean rooms that require special conductive or dissipative properties.

FEATURES

- Mainly built of PVC high density resin
- Plastic particle interfaces are used to form a permanent conductive or dissipative matrix
- The vinyl tiles are available in both metric standard (600 mm x 600 mm) and imperial standard (24" x 24")

BENEFITS:

- Abrasion and corrosion resistance
- Ageing resistance providing longer lifespan
- Low dust emissions
- Elegant decorative finish

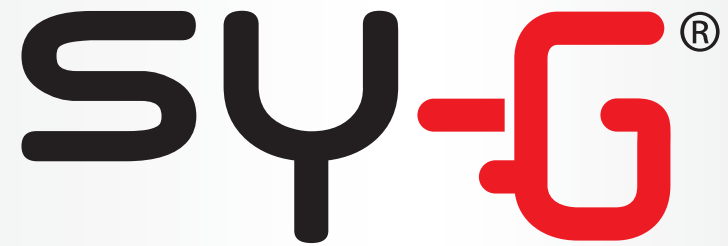
TECHNICAL SPECIFICATIONS ESD SERIES

ITEM	SDLYD13ZI
THICKNESS	3.0 mm
SIZE	610*610 mm
WEIGHT	5.8 kg
ELECTRIC PROPERTIES DIN511953 ASTM F-150 OR NFPA99	DISSIPATIVE TILE 10 ⁵ ~10 ⁸ OHM
EDCAY TIME SJ/T 10694-2006 (1000V +/- 100V ≤ 2S)	EQUAL 0.4S
CHARGING VOLTAGE SJ/T10694-2006 (V< 100V)	EQUAL 70
FIRE RESISTANCE GRADE DIN4102	B1
COMBUSTION PROPERTIES SJ/T11236-2001 (<10S)	EQUAL 0.35SFV-0
AMOUNT OF ANTI-WEAR SJ/T11236-2001	EQUAL 0.014
ANTI-WEAR PROPERTIES EN660PT2	ITEM-T<2.0mm ³
WHEEL PRESSURE EN25	NO INFLUENCE
RESIDUAL CONCAVITY EN433/DIN51955	0.04 mm
DIMENSIONAL STABILITY EN 434	≥ 0,10%
COLOR FASTNESS ISO105B02	AT LEAST 6
RESISTANCE TO CHEMICALS DIN423/DIN51958	EXCELLENT
IMPACT SOUND ABSORPTION VLI, ISO 104, ISO717	APROX 2DB



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Empowering New Frontiers™

