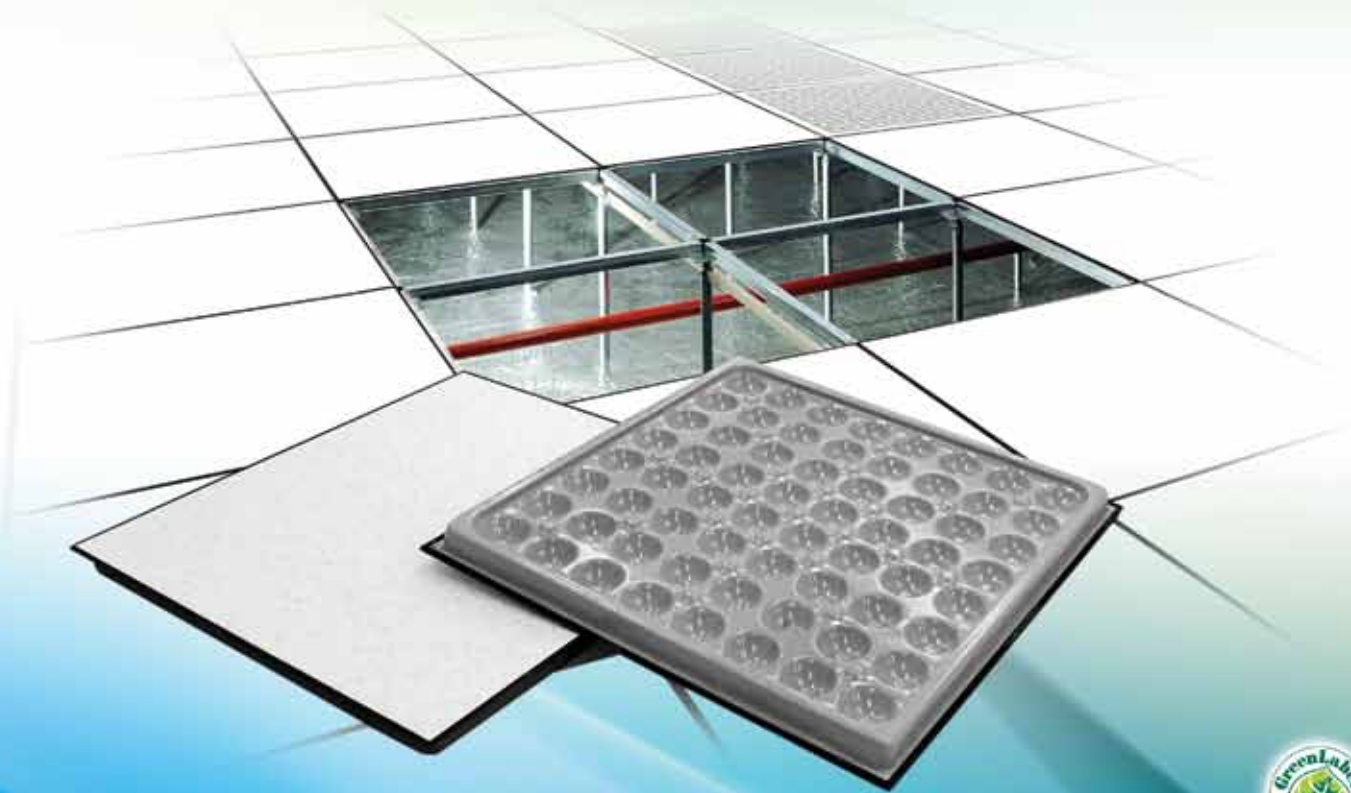


MICROTAC

Access Floor Systems



BCA
Registered
Contractor



GENERAL INFORMATION

Microtac Access Floors present the perfect solution to the rapidly increasing demands of modern interior fit-out projects in today's fast growing environment.

The advancement of technology and frequent changes in customer requirements calls for a flexible and high performance solution to eliminate costly relocation of services within the work place.

A perfect platform for business, Microtac Access Floor solutions provides ease of access to power, voice, data and other services when required and permit easy re-configuration of interiors. The system is designed to meet the most demanding needs of new or refurbished buildings, providing a cost effective and flexible solution. Whether used for commercial offices, library, casino, data centre's etc., there is a suitable system to satisfy the need of a project.



MICROTAC FILLED STEEL (MFS) PANEL



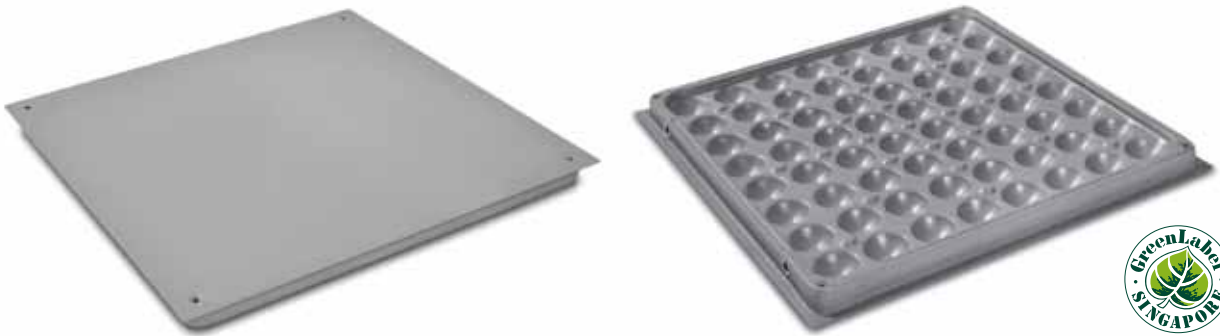
MFS Panels are epoxy coated unitized steel shell construction consists of flat steel top sheet resistance welded to a die-formed bottom pan with unique designed hemispherical reinforcing pockets.

The shells are internally filled with a non-combustible light weight, high compressive strength cementitious mixture to deliver ultimate structural strength and acoustic performance.

The floor panels are available with five standard load performance grades and an extensive selection of understructure support and finishes for difference application.

Features:

- Excellent load performance.
- Non-combustible in nature.
- Wide range of floor coverings are available for selection.
- Panels with different load characteristics are interchangeable.
- Green Label certified by Singapore Environment Council.



MFS Panel

Epoxy powder-coated finish for corrosion resistance and to provide an aesthetic outlook.

HPL, Conductive Tile or Other Wearing Surfaces.









Black PVC edge trim or integral trim to protect the edges of the panel.

Specially formulated cementitious compound reinforces the panel and provides good concentrated and uniform load resistance.

MFS PANEL

Specifications

System Type		System Weight	Static Loads			Rolling Load		Impact Load
Panel	Understructure		Concentrated Loads	Ultimate Loads	Uniform Loads	10 Passess	10,000 Passess	
MFS800 	Corner Lock	39 kg/m ²	800 lbs	2424 lbs	250 lbs/ft ²	800 lbs	400 lbs	100 lbs
			363 kg	1099 kg	1223 kg/m ²	363 kg	181 kg	45 kg
			3.56 kn	10.78 kn	12.0 kn/m ²	3.55 kn	1.78 kn	0.45 kn
	Rigid Grid with bolted stringer	42 kg/m ²	800 lbs	2424 lbs	250 lbs/ft ²	800 lbs	400 lbs	100 lbs
			363 kg	1099 kg	1223 kg/m ²	363 kg	181 kg	45 kg
			3.56 kn	10.78 kn	12.0 kn/m ²	3.55 kn	1.78 kn	0.45 kn
MFS1000 	Corner Lock	41 kg/m ²	1000 lbs	3029 lbs	417 lbs/ft ²	1000 lbs	600 lbs	150 lbs
			454 kg	1374 kg	2039 kg/m ²	454 kg	272 kg	68 kg
			4.45 kn	13.47 kn	20.0 kn/m ²	4.45 kn	2.66 kn	0.67 kn
	Rigid Grid with bolted stringer	44 kg/m ²	1000 lbs	3029 lbs	417 lbs/ft ²	1000 lbs	600 lbs	150 lbs
			454 kg	1374 kg	2039 kg/m ²	454 kg	272 kg	68 kg
			4.45 kn	13.47 kn	20.0 kn/m ²	4.45 kn	2.66 kn	0.67 kn
MFS1250 	Corner Lock	46 kg/m ²	1250 lbs	3737 lbs	459 lbs/ft ²	1250 lbs	800 lbs	150 lbs
			567 kg	1695 kg	2343 kg/m ²	567 kg	363 kg	68 kg
			5.56 kn	16.62 kn	22.0 kn/m ²	5.56 kn	3.55 kn	0.67 kn
	Rigid Grid with bolted stringer	49 kg/m ²	1250 lbs	3737 lbs	459 lbs/ft ²	1250 lbs	800 lbs	150 lbs
			567 kg	1695 kg	2343 kg/m ²	567 kg	363 kg	68 kg
			5.56 kn	16.62 kn	22.0 kn/m ²	5.56 kn	3.55 kn	0.67 kn
MFS1500 	Corner Lock	49 kg/m ²	1500 lbs	4485 lbs	501 lbs/ft ²	1500 lbs	1000 lbs	175 lbs
			680 kg	2034 kg	2447 kg/m ²	680 kg	454 kg	79 kg
			6.67 kn	19.95 kn	24.0 kn/m ²	6.66 kn	4.45 kn	0.78 kn
	Rigid Grid with bolted stringer	52 kg/m ²	1500 lbs	4485 lbs	501 lbs/ft ²	1500 lbs	1000 lbs	175 lbs
			680 kg	2034 kg	2447 kg/m ²	680 kg	454 kg	79 kg
			6.67 kn	19.95 kn	24.0 kn/m ²	6.66 kn	4.45 kn	0.78 kn
MFS2000 	Rigid Grid with bolted stringer	56 kg/m ²	2000 lbs	6016 lbs	626 lbs/ft ²	1500 lbs	1250 lbs	175 lbs
			907kg	2726 kg	3059 kg/m ²	680 kg	567 kg	79 kg
			8.89 kn	26.76 kn	30.0 kn/m ²	6.66 kn	5.55 kn	0.78 kn
MFS2500 	Rigid Grid with bolted stringer	59 kg/m ²	2500 lbs	7000 lbs	731 lbs/ft ²	2000 lbs	1800 lbs	200 lbs
			1134 kg	3175 kg	3569 kg/m ²	907 kg	816 kg	91 kg
			11.12 kn	31.13 kn	35.0 kn/m ²	8.90 kn	8.01 kn	0.89 kn

*MICROTAC MFS series panels are Green Label certified by Singapore Environment Council. Certificate no. 043-020-1313.



Singapore Environment Council Green Label Certificate



Certificate of Conformity for Non-Combustible Material from TÜV SÜD PSB Singapore



BS OHSAS 18001:2007 Certification



ISO 9001:2008 Certification



WSH Council BizSafe Star Certification

UNDERSTRUCTURE SYSTEMS



Corner Lock (CL)

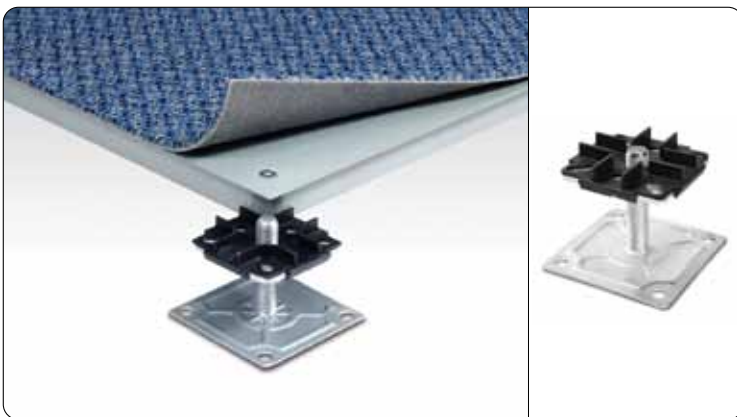
Effective and economic system suitable for general office application.

Mechanically fastens each floor panel to the pedestal at all four corners ensuring rigidity, lateral stability.

Fasteners securely lock down panels provide firmness and stability.

PVC pedestal pad eliminate noise due to metal to metal contact. Enhance acoustical performance for quiet comfort and solid feel under foot.

Recommended Floor Height: 100mm to 300mm



Low Lock (LL)

Identical performance as the Corner Lock system.

Effective and suitable for fit-out works with low height limitation.

Available in finished floor height from 70mm to 100mm.

Recommended Floor Height: 70mm to 100mm



Rigid Grid Bolted Stringer (RGSB)

Designed to withstand high lateral forces caused by intermittent starting and stopping of rolling loads.

Suitable for computer room, data centre, industrial applications and equipment area.

Panels are gravity held in position on understructure allowing fast removal and replacement for maintenance.

MT all steel box stringer provide lateral resistant to heavy rolling load.

Recommended Floor Height: 150mm to 700mm

UNDERSTRUCTURE SYSTEMS

Rigid Grid Bolted Stringer with Corner Lock

The system provide vibration resistant installation for industrial and sock resistance application.

Full mechanical bolted design with heavy duty MHP pedestal on Rigid Grid configuration maximise system stability.

Suitable for application in seismic zone, heavy duty industrial requirement and CD (Civil Defence) facilities.

Recommended Floor Height: 300mm to 1600mm

* For any requirement of height exceeding 1600mm, Please contact microtac for technical details.



Pedestals and Stringers



MT Steel Stringer

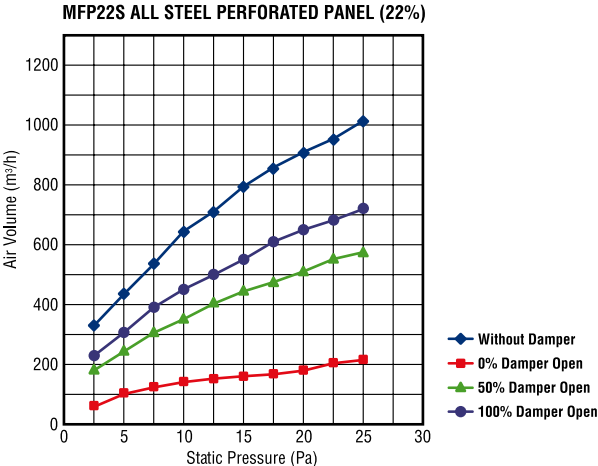
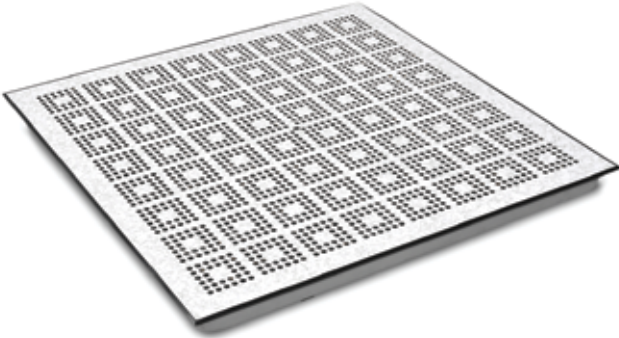


Pedestal	Axias Load Tested	System Height
MAP150	30 kn (3059 kg)	150 mm
MLP150	30 kn (3059 kg)	150 mm
MSP600	30 kn (3059 kg)	600 mm
MHP1000	40 kn (4078 kg)	1000 mm

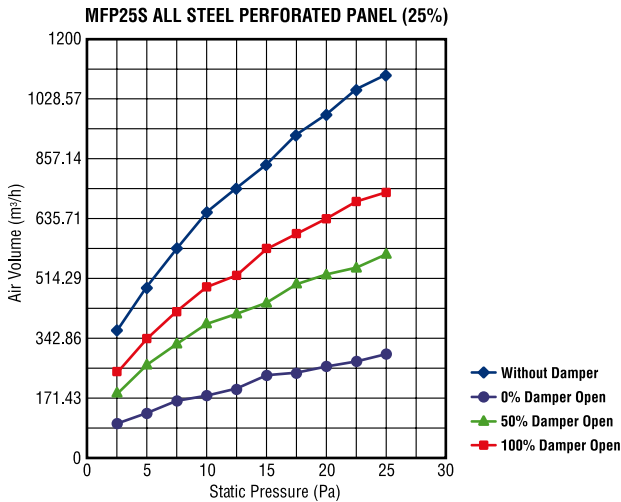
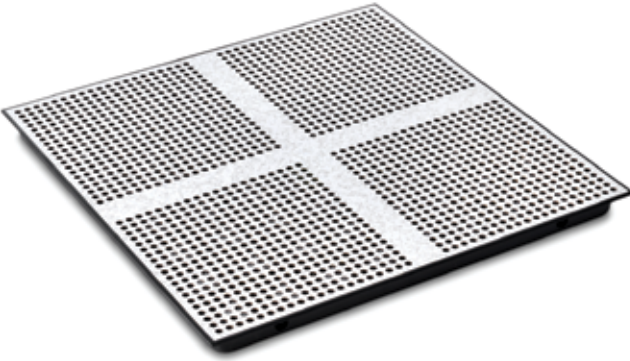
PERFORATED PANEL (MFP)

- Interchangeable with MFS panel to provide high capacity air flow for ventilation and cooling.
- Unitized panel construction for high structural performance.

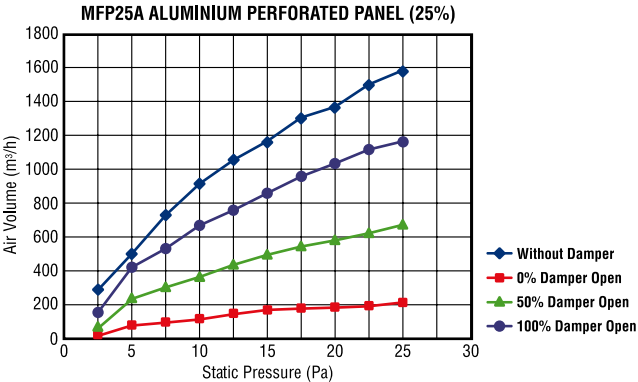
MFP22S All Steel Perforated Panel with 22% Free Area



MFP25S All Steel Perforated Panel with 25% Free Area

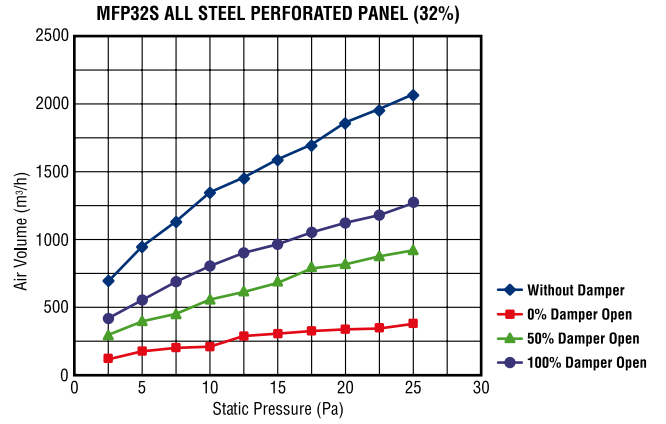
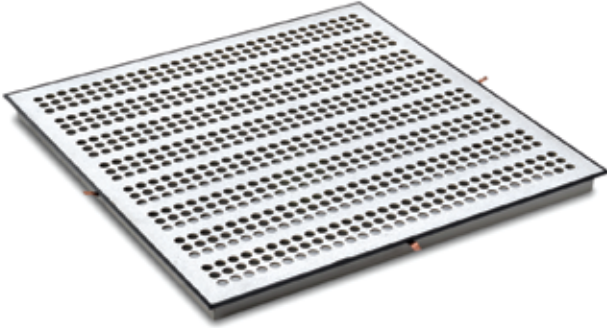


MFP25A Perforated Panel with 25% Free Area

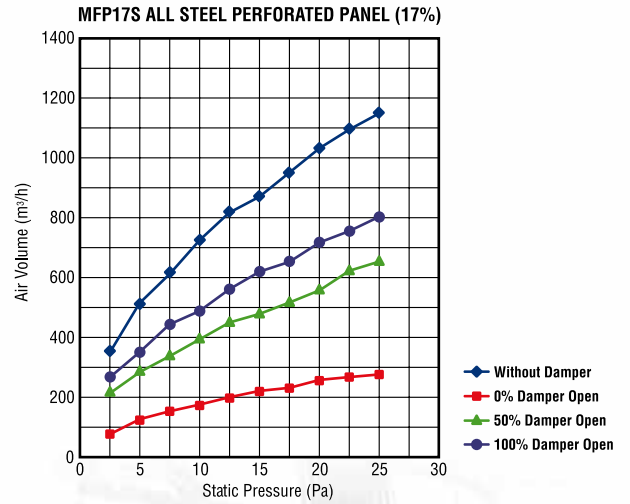
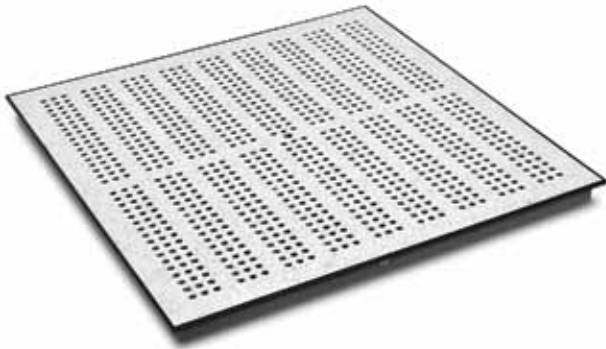


PERFORATED PANEL (MFP)

MFP32S All Steel Perforated Panel with 32% Free Area



MFP17S All Steel Perforated Panel with 17% Free Area

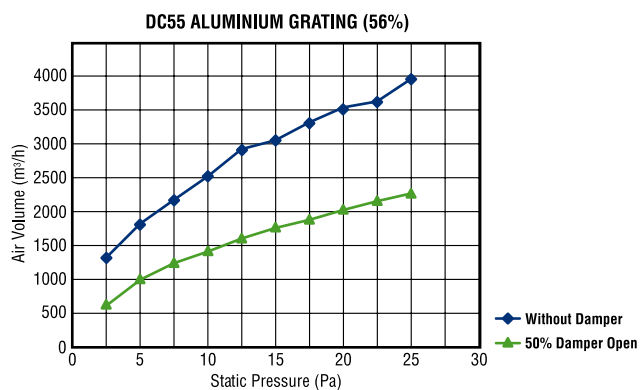


Damper Kit

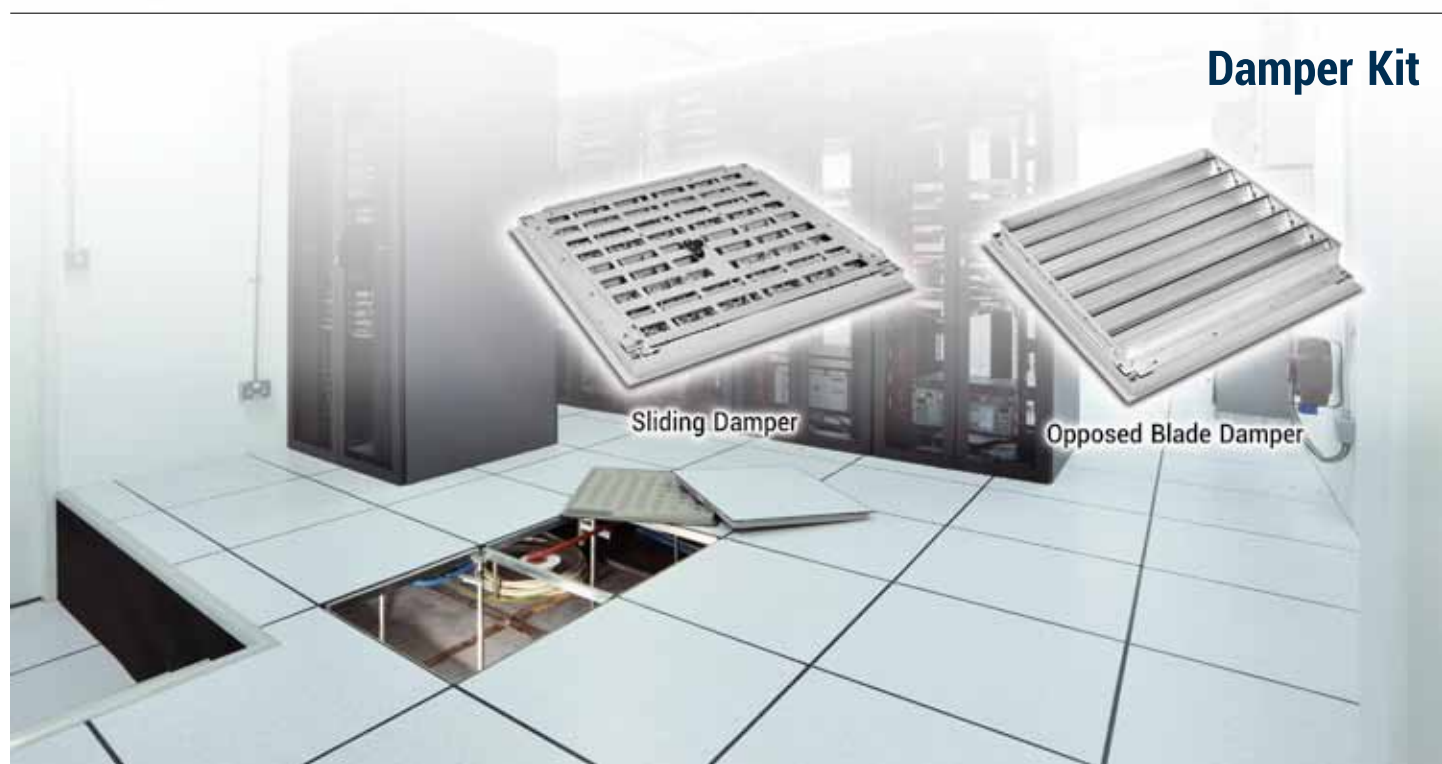
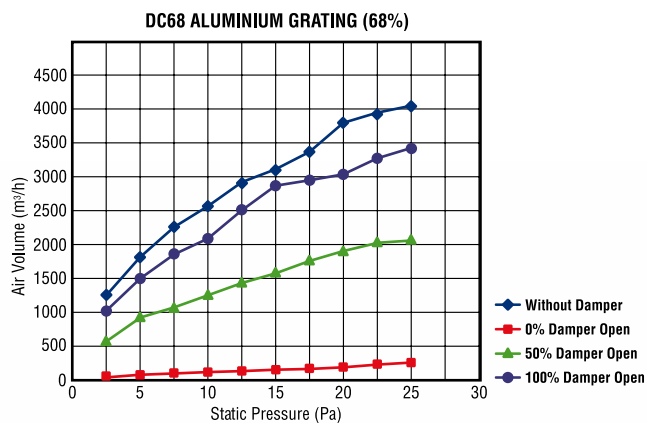


ALUMINIUM GRATING PANEL

DC55 Die-Cast Aluminium Grating (56%)

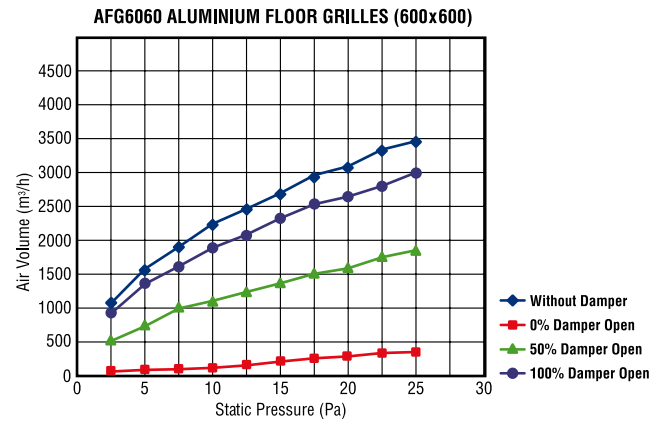


DC68 Die-Cast Aluminium Grating (68%)

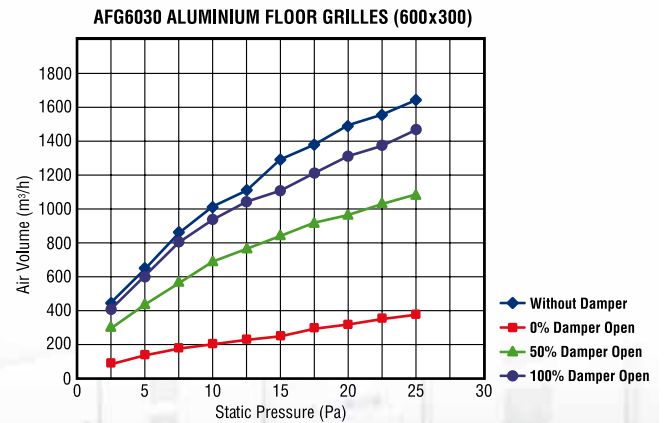


ALUMINIUM FLOOR GRILLES (AFG)

AFG6060 Aluminium Floor Grilles (600mm x 600mm)

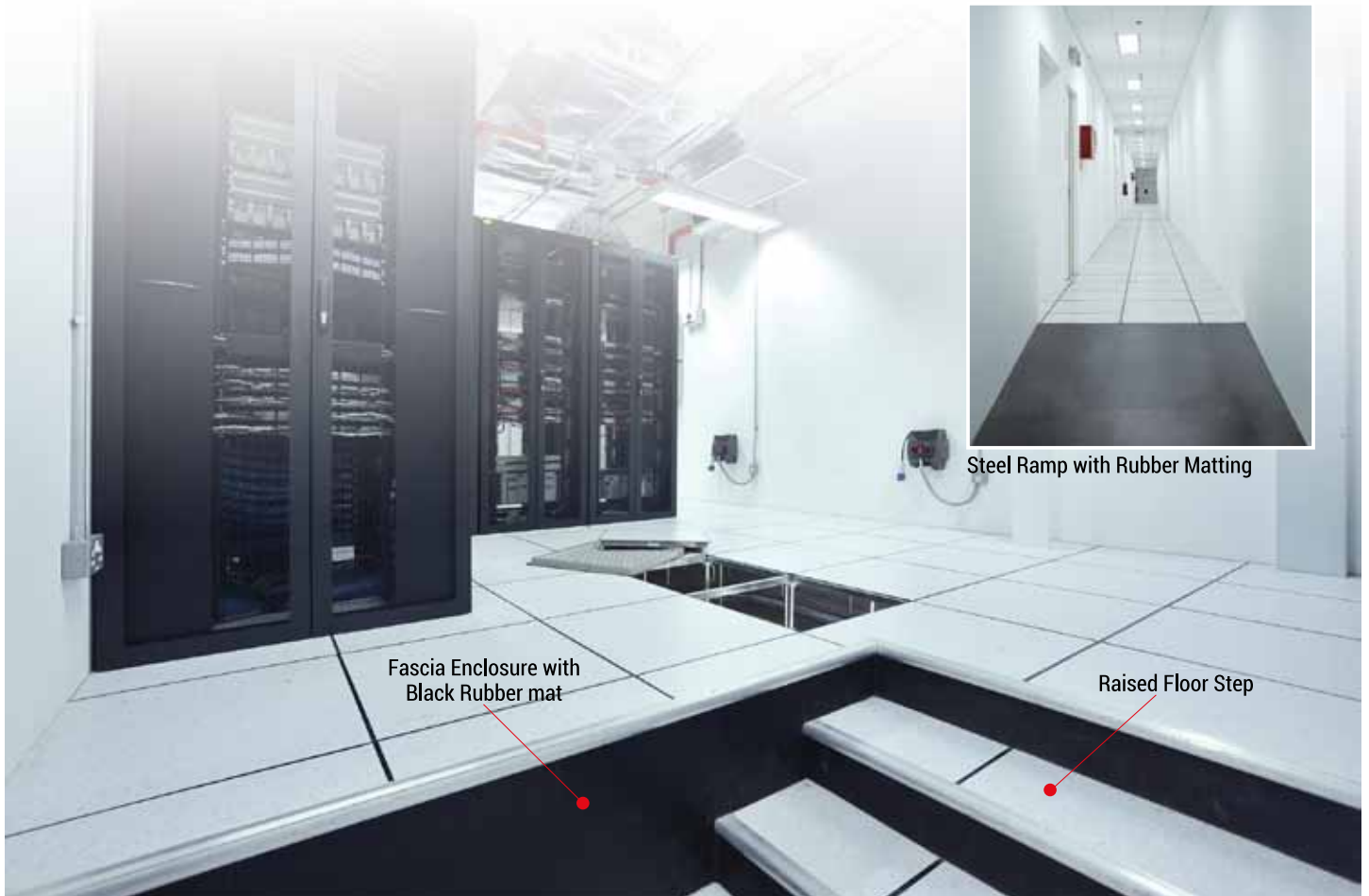


AFG6030 Aluminium Floor Grilles (600mm x 300mm)





Ramp, Step and Fascia Enclosure



FLOOR COVERING MATERIALS

Anti-static HPL or PVC tiles are suitable finishing for raised floor systems. Their flame retardance, low cost maintenance, durability, chemical resistance and anti-static properties make them excellent solutions to demanding work environments.

Anti-Static High Pressure Laminate (HPL)



2192



2010



2010-1



2010-4



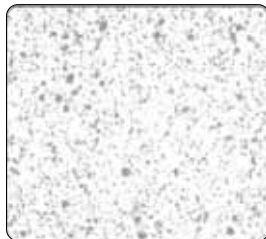
2010-5



2010-6



2010-7



2103



2158



2069

Thickness: 1.0mm, 1.2mm, 1.6mm, 2.0mm, 2.5mm, 3.0mm

Electrical Resistance: 1×10^8 to $2 \times 10^{10} \Omega$

Conductive Vinyl Tiles (CVT)



TC601



TC6101



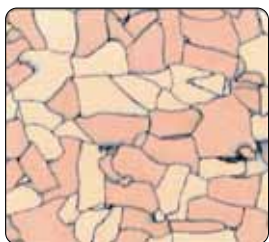
TC9103



TC6111



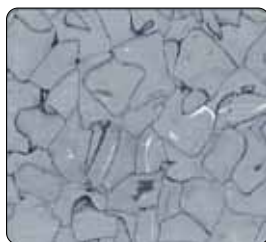
TC9102



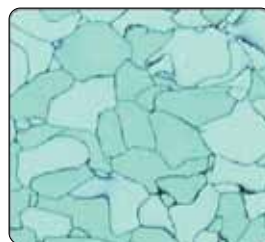
TC9131



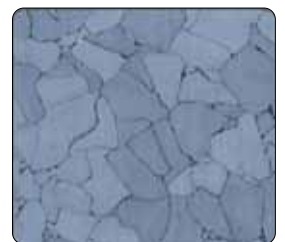
TC9105



TC6061



TC9081



TC9091

Thickness: 2.0mm, 3.0mm

Electrical Resistance: 2.5×10^4 to $1 \times 10^6 \Omega$

Anti-Static Vinyl Tiles



MIPOLAM™ AMBIANCE ULTRA

- High performance flexible homogenous multipurpose flooring
- PUR special maintenance treatment: ease of maintenance
- GROUP T wear rating compliant (very high resistance to traffic)
- Densely compacted surface for improved wear and ease of maintenance
- Incorporated bacteriostatic and fungistatic actions
- Antistatic
- Non-directional polychrome design, available in a large choice of 26 contemporary colours
- Available in sheet



2055 Opale



2053 Mouse



2051 Charcoal



2062 Beach



2061 Sand



2070 Ink Blue



2052 Ash



2054 Cloud



2063 Emerald



2066 Forest



2065 Bamboo



2068 Sea Blue



2067 Pool



2073 Vanilla



2072 Terracotta

Thickness: 2.0mm

Electrical Resistance: 1×10^8 to $2 \times 10^{10} \Omega$

PROJECT REFERENCE

Office



South Beach Tower 46,000 m²



One Raffle Place 29,300 m²



Fusionopolis Development Phase 5 52,000 m²

Data Centre



Serangoon Data Centre 11,000 m²



Data Centre at Paya Lebar 3,500 m²



Tata Communication Data Centre 2,400 m²



Jurong Data Centre 4,000 m²

Clean Room



SSMC 12,500 m²



Gemplus 5,000 m²



UMC at Pasir Ris Drive 18,000 m²



AFPD at Tampines 11,000 m²

Others



Art Science Museum at MBS 6,000 m²

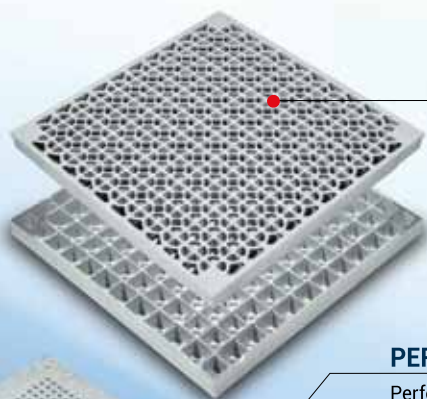


Wilkie Edge at Selegie 10,000 m²



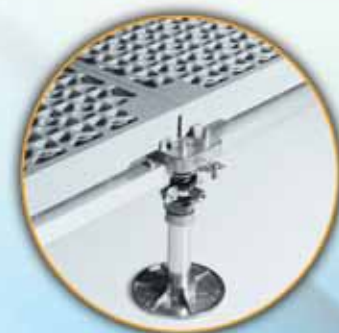
StarHub Green Mini Theater 500 m²

HAE KWANG ALUMINIUM ACCESS FLOOR FOR CLEANROOM



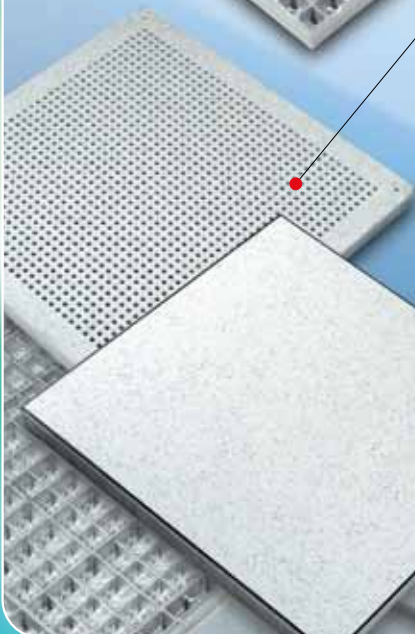
GRATING PANEL

Grating panels should be installed in areas where additional air flow is required. These specially designed gratings minimize vibration caused by rolling loads and assist in maximizing open-air rate. A wide range of colour tones and coatings are available for selection.



PERFORATED PANEL

Perforated panels are designed to provide an increased smooth flow of air from the ceiling through the raised floor. Chamfered holes reduce turbulence to a minimum.



SOLID PANEL

Heavy Duty Solid Panel is used in places that are subjected to heavy load. The lattice structure of these panels provides excellent weight dispersion.



PEDESTAL SYSTEMS come with standard & heavy duty performance. Height can be customized to suit customer's requirements. Reinforcement system made of steel can be added on, when required.



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