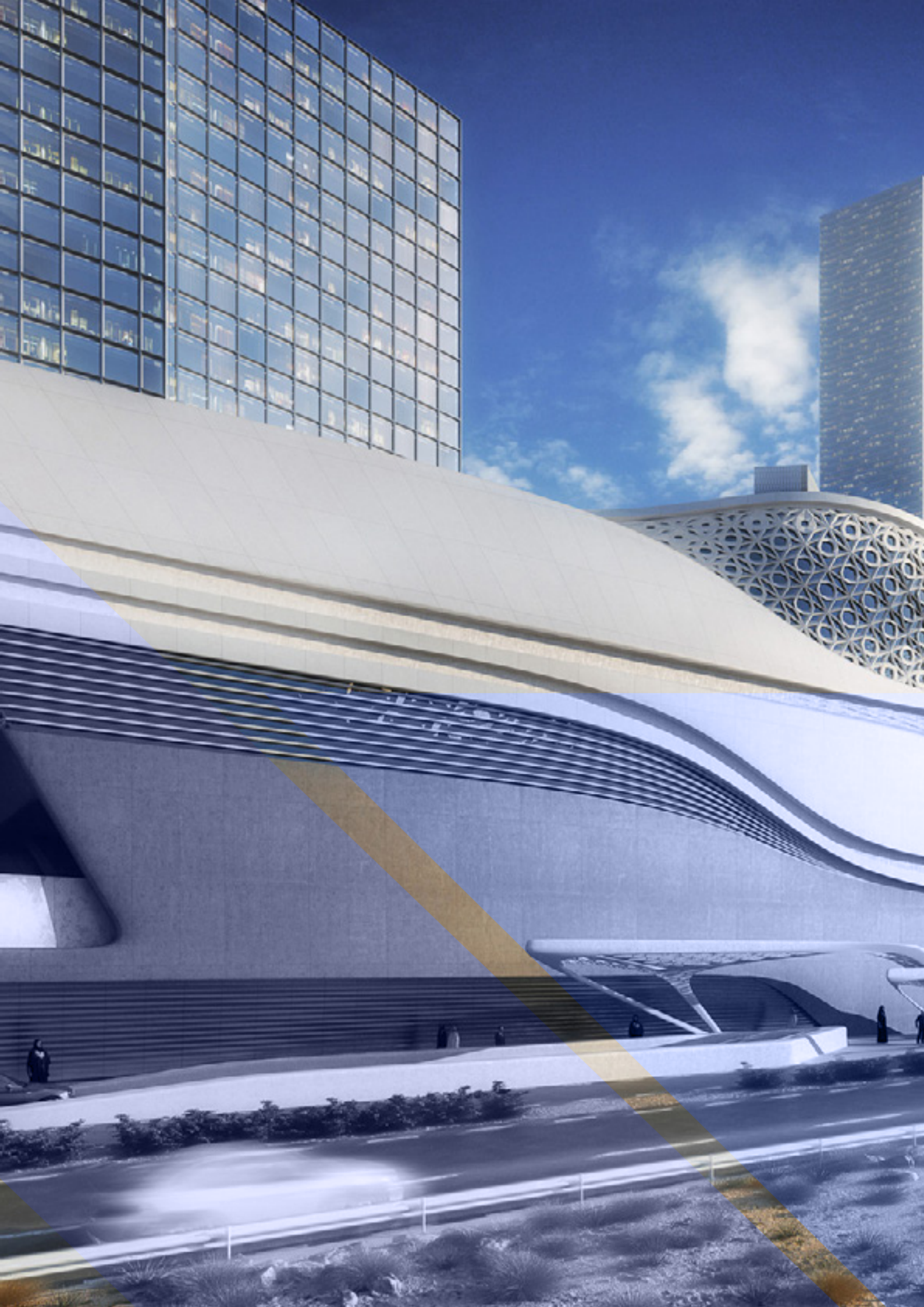




# BETA CONTECH

National Specialized Construction Technologies

## Architectural and Industrial Products CATALOGUE





# BETA CONTECH

## National Specialized Construction Technologies

Beta Contech is specialized in advanced architectural and industrial products ranging from raised access floorings, architectural expansion joints, architectural impact protection systems, garbage & linen chutes and others. The company operates within the GCC and MENA countries and has a wide reputation among contractors.

Beta Contech has a team of engineers and specialized personnel offering their expertise to the construction market. The company has successfully completed some major projects in the region.

Beta Contech represents well-known European, American and Australian manufacturers in the region such as: Tate, Migua, Pawling, Progress Plast, SFSP and others.

The company offers a variety of products, amongst are: Raised Access Floorings, Expansion Joint Systems, Handrails & Corner Guards, Speed Bumps & Bumper Guards, Entrance Mats, Rubber Tiles, Toilet Partitions, Technical Profiles, as well as Garbage & Linen Chutes. Beta Contech does not only sell the product.





# FLOORING SYSTEMS

## Raised Access Flooring



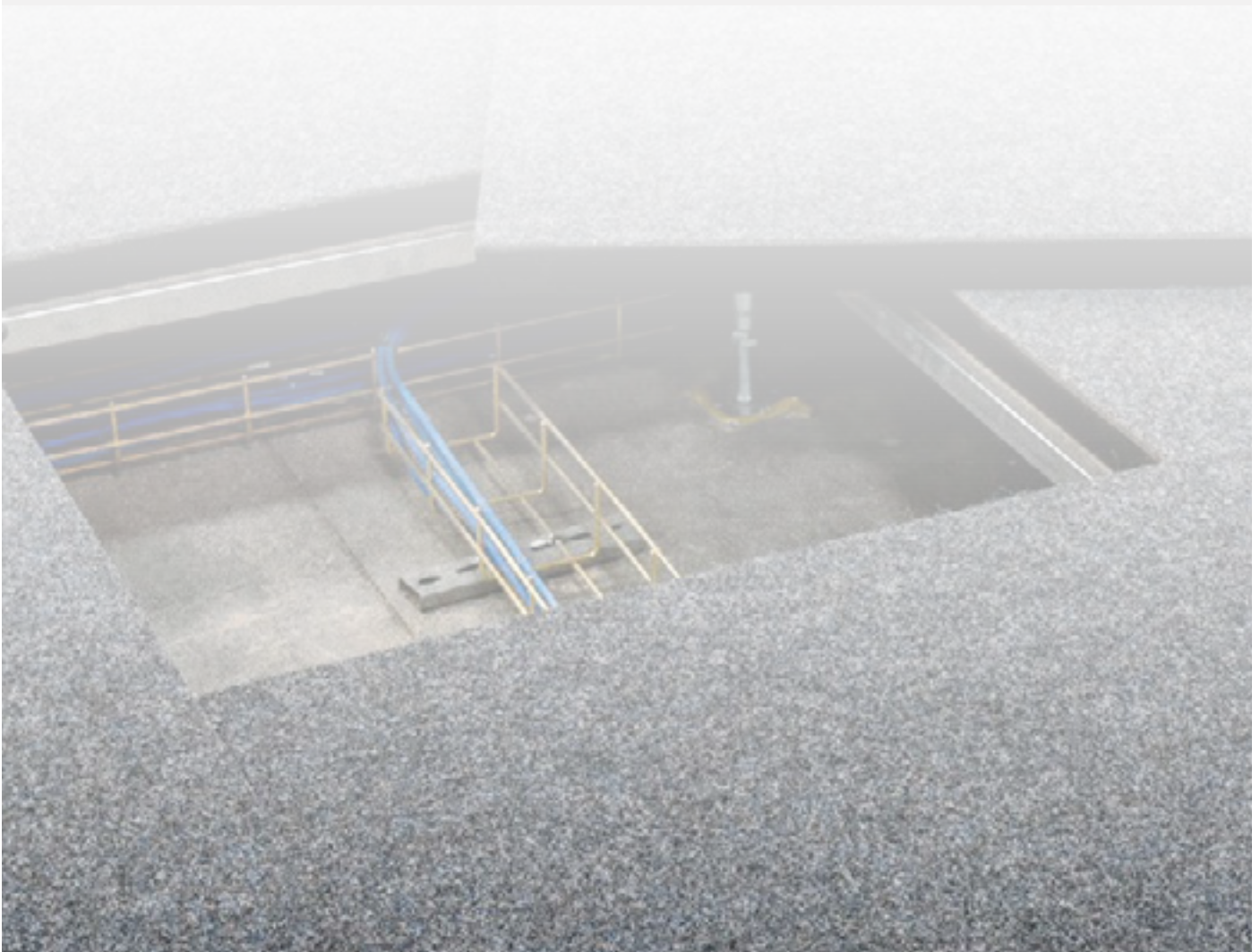
Polygroup is a high tech raised access floor system manufacturer and innovative flooring solutions. Polygroup relationship with architects and designers gives them an unrivalled insight into what they really want from building product manufacturers. Polygroup offer innovative technology, high production capacity and customized service striving for excellence on each project they are involved. Polygroup continuous investment in research and development ensures that the full range of products performs at its best even in the most demanding, difficult and diverse of installations. Polygroup have wide experience and recognition of many international architects, designers and engineers which entrust their projects to Polygroup for years. Polygroup expertise team is giving their collaborators network technical support and brilliant know-how providing full coverage from initial stage submission to practical completion of the flooring installation.

## Gamaflor Access Raised Floor

Gamaflor System enhances solutions to the highest level helping to develop new insights into the interaction of raised floor systems components. Together we strive for the overall objective of the whole starting for the steps we take because every single element takes part in the Gamaflor Raised Solutions.

Gamaflor access flooring is a modular, structural, elevated floor laid on a solid framework to create a void for the passage of mechanical and electrical services. This removable panel conception is also a very versatile system, allowing flexible positioning of workstations and building services. It provides easy access to the sub-floor for repair and maintenance and allows future upgrading of services with minimal disruption to occupants.

**Gamaflor access floors are frequently used in trendy and innovative office buildings, as well as in technical specialized areas such as data centers and computer rooms, where there is a requirement to route mechanical services and cables, wiring, and electrical supply.**



# GAMAFLOR FULL STEEL

Steel Encapsulated cement raised floor system GAMAFLOR FULL STEEL HEAVY MEDIUM is the optimal recommendation. This steel cementious raised access floor is a perfect complement to the most diverse of commercial, industrial or technical projects especially in the Data Centers and casinos areas. Raised access floor system turns void into fully accessible when FULL STEEL HEAVY MEDIUM panels are covering finished from factory.

**PANEL DIMENSIONS:** 600×600

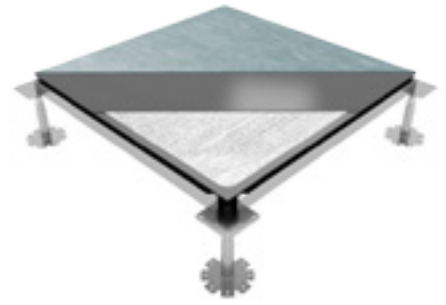
**TOP STEEL SHEET:** Smooth steel sheet of 0,9 mm thickness

**BOTTOM STEEL SHEET:** Steel embossed sheet of 0,9 mm thickness

**PANEL CORE:** Light cement density > 1250 kg/m<sup>3</sup>

**FLOOR FINISHES:** Light finishes, ceramic, granite, carpet, natural wood, stainless steel beyond others

**STRUCTURE:** Solid and stable raised access floor structure consisting of steel pedestals and bolted stringers reaching heights from 55 mm to 2000 mm



# RAISED FLOOR PAC

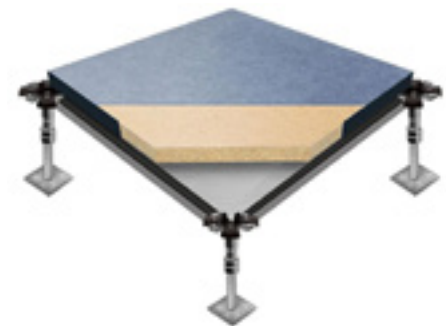
GAMAFLOR PAC is a conventional system designed and developed by POLYGROUP with the latest manufacture technology in regards to Leed parameters helping in the LEED certification processes on regard to recycled component materials topic. Raised access floor PAC panels are highly configurable offering a wide range of covering finish options from factory to turn system into fully accessible.

**FINISHES / COVERINGS:** A wide variety of light finishes / coverings, ceramic, natural wood, granite, etc, is available to fit any interior design. Learn more about our SOVEREIGN technology

**CORE:** High density FSC certified chipboard available in different thickness options according to project needs

**BOTTOM:** Galvanized steel sheet of 0.5 mm thickness

**STRUCTURE:** Stable structure of raised access floor consisting of 75 to 2000 mm adjustable in height pedestals and lateral stringers



# RAISED FLOOR PAC

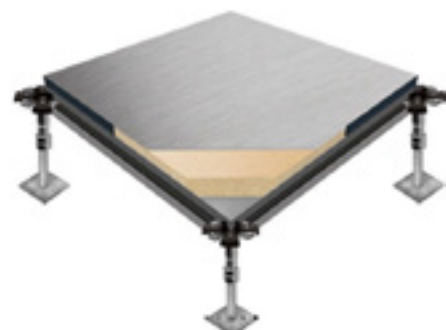
Raised access floor system GAMAFLOR BANK is designed to be versatile and highly adaptable to all applications providing significant load resistance levels, fire rating any and thus reducing investment costs. GAMAFLOR BANK is a conventional system designed and developed by POLYGROUP with the latest manufacture technology in regards to Leed parameters helping in the LEED certification processes on regard to recycled component materials topic.

**FINISHES / COVERINGS:** A wide variety of light finishes / coverings, ceramic, natural wood, granite, etc, is available to fit any interior design. Learn more about our SOVEREIGN technology

**CORE:** High density FSC certified chipboard available in different thickness options according to project needs

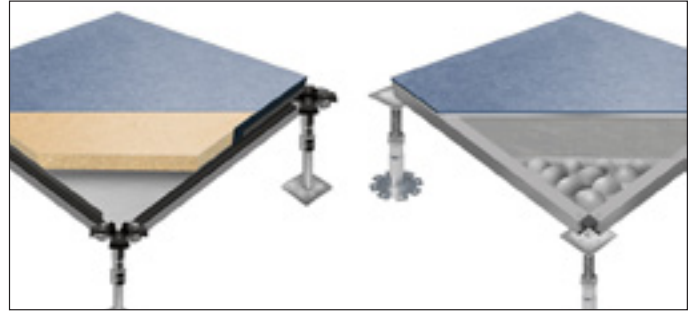
**BOTTOM:** Galvanized steel sheet of 0.5 mm thickness

**STRUCTURE:** Stable structure of raised access floor consisting pedestals from 75 to 2000 mm adjustable in height and lateral pedestals



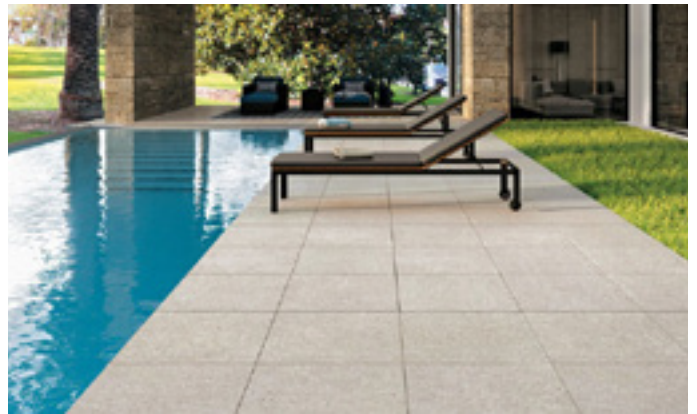
## STRUCTURE GAMAFLOR

Raised access floor is conceived as a unitary system where each component is key concerned with the optimal performance, warranty, stability, acoustic capacity and service life of the assembly. Raised access floor structure GAMAFLOR consists of steel pedestals and stringers combined with each other ensuring the highest stability performance in the event of lateral movement, rolling loads or even earthquakes. Raised access floor pedestal is designed as a readily adaptable structural component to full range of GAMAFLOR access flooring systems by the double -head concept or reversible mode assembly. Each pedestal consists of two steel plates welded to an extendable piece tube and screw; both pieces are bolted one to each other and locked with double security nut.



## GAMAFLOR OUTFLOOR

This external raised Access Floor system has great benefits and a high quality aesthetic for outdoor and free air spaces creating a comfortable and stable footstep in areas of public use. Thanks to its application versatility, this system will add an awe-inspiring touch to leisure spaces such as restaurants, hotels or terraces radiating modern edge with an eclectic twist. Designed to be considered as a functioning unit, Out-Floor panels remain unalterable to meteorological agents. This System consists of configurable tiles of 600 x 600, 300 x 600 or 500 x 500 mm. with high density inert core composition, top finished in anti-slip ceramic or granite stony covering.



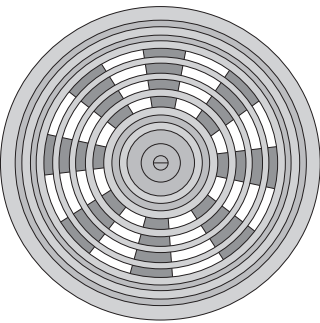
## PERFORATED VENTILATION PANELS

POLYGROUP has developed a new generation of perforated panels and ventilation grilles for raised technical floors. GAMAFLOR G perforated ventilation panels are manufactured entirely of reinforced smooth steel providing the system with maximum static and rolling load resistance as well as the highest fire rating. All Gamaflor perforated raised access floor panels ranges are suitable to both GAMAFLOR FULL STEEL system and GAMAFLOR PAC/BANK system, and in the same way, they are compatible with a multitude of raised floor systems on the market worldwide. The steel ventilation panels are adjustable to raised access floor panels of 30 to 40 mm thickness and guarantee a constant and safe air flow in the cold aisle areas of DATA CENTERS where air cooling distribution under the raised access floor is required.

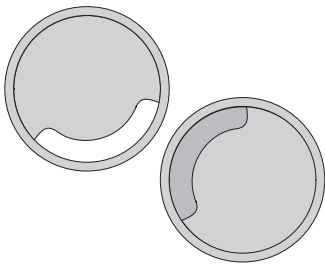


# RAISED ACCESS FLOOR ACCESSORIES

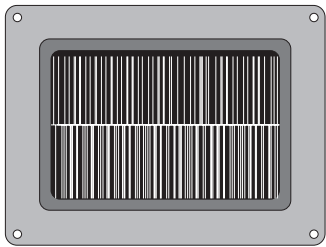
POLYGROUP provides its customers with a wide range of accessories for raised access floors to ensure the correct functioning of the raised floor technology. All Gamaflor accessories are compatible with our raised access floor GAMAFLOR FULL STEEL SYSTEM and GAMAFLOR PAC/BANK SYSTEM, as well as other raised floors found in the market. GAMAFLOR accessories offer a complete accommodation line of ramps, access steps and hand rails that ensures access for all is achieved. UFAD (Under Floor Air Distribution) is achieved through ventilation grilles and air diffusers, electrical boxes; panel and carpet lifters finish out and maintain your new or existing installation in optimum conditions from day one.



Raised Access Floor Diffuser



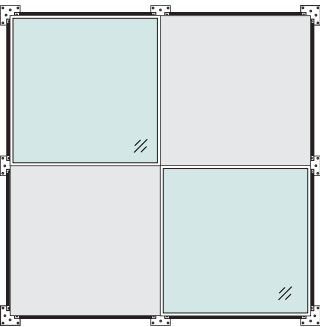
Raised Access Floor Grommet



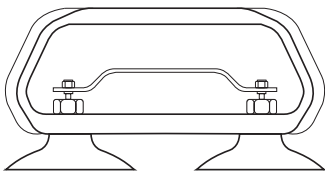
Data Center Floor Grommet



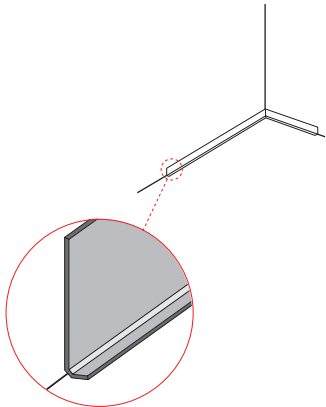
Access Floor Electrical Box



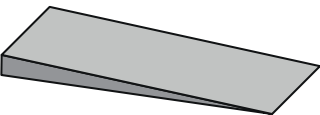
Glass Raised Access Floor



PANEL LIFTER



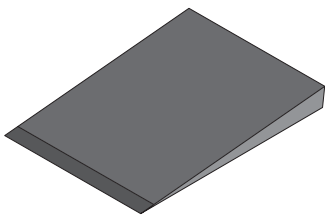
Skirting



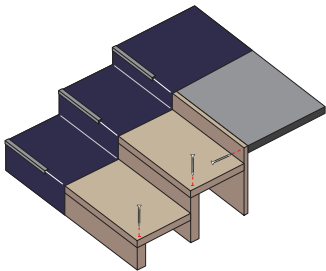
Installation Wedge



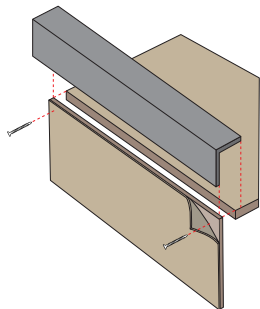
Pedestal Fixing Adhesive



Raised Access Floor Ramps



Raised Access Floor Stairs



Raised Access Floor Fascia

Apsilon is a leading design and manufacturer of Access Floor System for the construction industry. Our products offers flexibility for the modern office and high technology environment, saving life cycle cost and improving workspace efficiency. Our products offers HVAC, power and data underfloor integration much simpler and effortless. With over 1.6 million sq.m access floors installed, we offer stability and consistency to our clients. Apsilon high performance access floor system are durable and offers a complete superior modular system. The concrete and steel composite structure of the panels provides maximum access floor structural integrity and improve acoustics management.

### Key Features: CISCA

- Lower operating cost
- Increase productivity
- Less downtime
- Faster move-in
- Improve workplace aesthetics
- Significant savings on renovations or conversion projects
- Technology Flexible



### Standard Panel Options

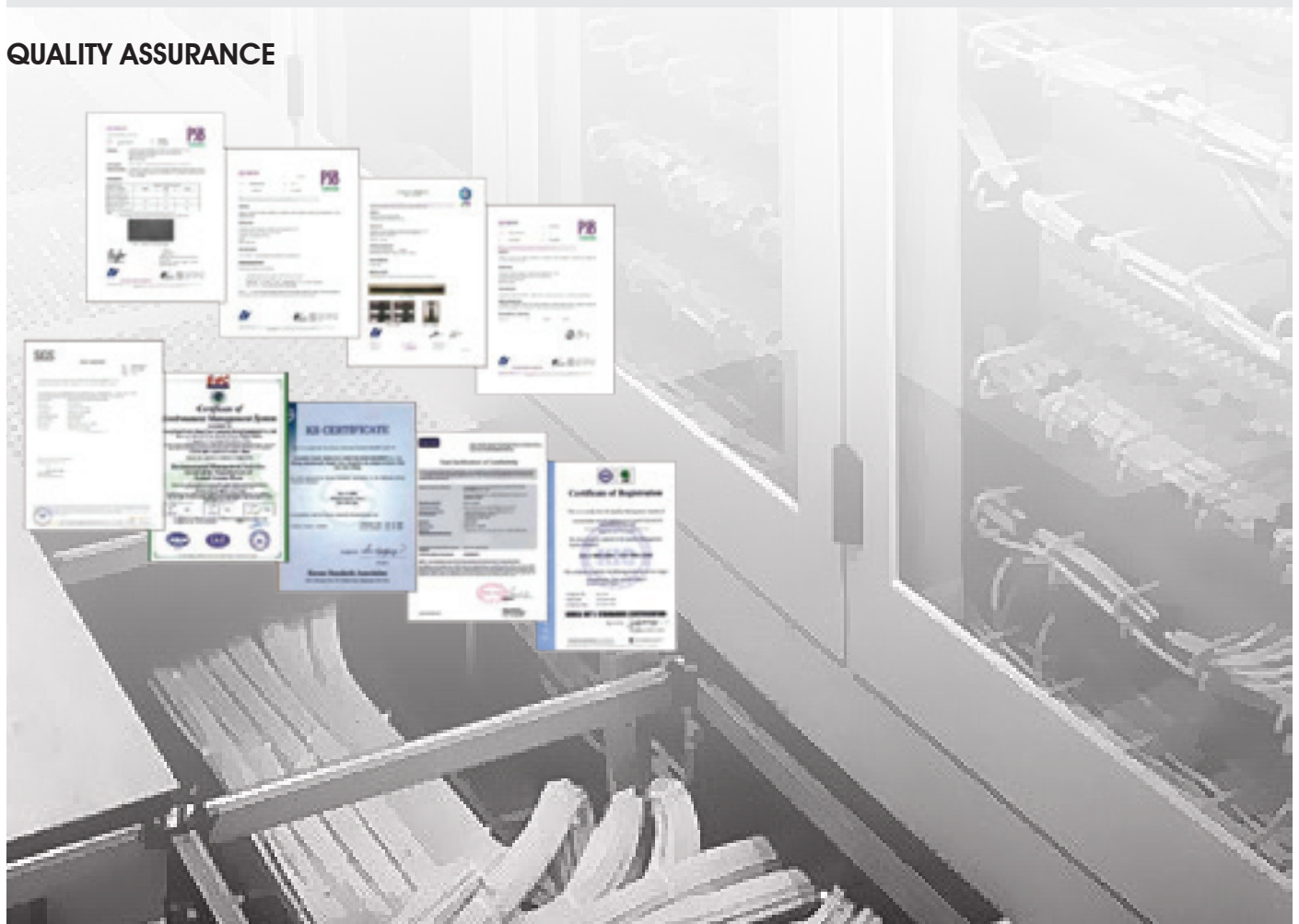
- Steel cementitious
- Wood-core
- Calcium Sulphate
- Die-cast aluminum

### Panel Surface Option

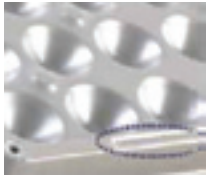
- Bare Wooden
- HPL Ceramic
- Vinyl
- Carpet

Apsilon access floor system are designed and manufactured according to CISCA standards.

## QUALITY ASSURANCE



## PANEL STRUCTURE



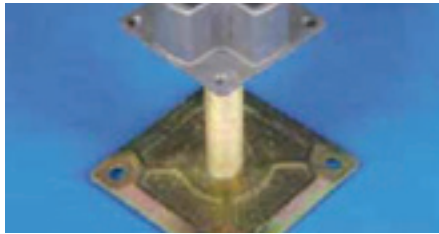
Embossment structural.  
Ultra Heavy SG2500 11  
KN gravity held coating is  
applied Wood BSEN12825  
Enlarge the concentrated  
load capability



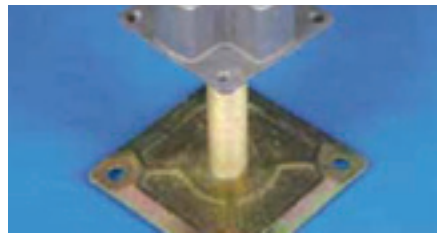
Improve the edge loading



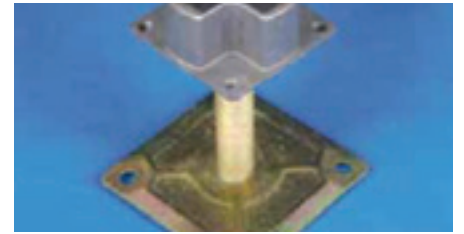
Structure: cement unfilled access floor panels are epoxy coated consisting of a flat hard steel top sheet particleboard Ultra Heavy MX4500 4.5 KN gravity held Wood BSEN12825 aluminum plate welded to a die formed steel bottom pan unfilled with high light cement.



Steel flat head pedestal



Aluminum cross-head pedestal



Steel cross-head pedestal

## PRODUCT SELECTION GUIDE

Brand	Panel Type	Grade	Model Codes	Load Ratings	Understructure Options	Core Material	Coating Types	Top Finish	Standards
SIGMA	Cement Core Panel	Medium Heavy Ultra Heavy	SG668 SG800 SG2500	3.1 KN 3.5 KN 11 KN	* Conner-lock, *Non-Coner-lock, gravity held	Steel & Cement (Concrete)	Zinc Phosphate and then Epoxy coating is applied	HPL, Vinyl, Carpet, Ceramics tone, Glass, Wood	CISCA, PSA MOB PF2, BSEN12825
MATRIX	Wood-core / Wood chipboard Panels	Medium Heavy Ultra Heavy	MX1500 MX3000 MX4500	1.5 KN 3 KN 4.5 KN	* Conner-lock, *Non-Coner-lock, gravity held	Wood / particle board	Bottom is galvanized steel plate or aluminum plate	HPL, Vinyl, Carpet, Ceramics tone, Glass, Wood	CISCA, PSA MOB PF2, BSEN12825
CALCIUM SULPHATE	Calcium Sulphate Core Panels	Medium Heavy	CS3000 CS4500	3 KN 4.5 KN	* Conner-lock, *Non-Coner-lock, gravity held	Calcium Sulphate	Zinc Phosphate and then Epoxy coating is applied	HPL, Vinyl	CISCA, PSA MOB PF2, BSEN12825
COMPOSITE	Composite Core Panel	Medium Heavy	CS3000 CS4500	3 KN 4.5 KN	* Conner-lock, *Non-Coner-lock, gravity held	Composed of Wood-core or Calcium Sulphate	Zinc Phosphate and then Epoxy coating is applied	HPL, Vinyl, Carpet, Ceramics tone, Glass, Wood	CISCA, PSA MOB PF2, BSEN12825
ALUMINUM	Aluminum Panel	Medium Heavy Ultra Heavy	AL1000 AL1500	1 KN 1.5 KN	* Conner-lock, *Non-Coner-lock, gravity held	Solid Cast Aluminum	Zinc Phosphate and then Epoxy coating is applied	HPL, Vinyl, Carpet, Ceramics tone, Glass, Wood	CISCA, PSA MOB PF2, BSEN12825
AIR FLOW	Perforated / Airflow Panel	17%, 22%, 25%, 45%, 55%	AL1000 AL1500	1 KN 1.5 KN	* Conner-lock, *Non-Coner-lock,gravity held	Comes in steel and die-cast aluminum	Epoxy coating	HPL, Vinyl, Rubber	CISCA, PSA MOB PF2, BSEN12825

## SIGMA PANELS

### Features:

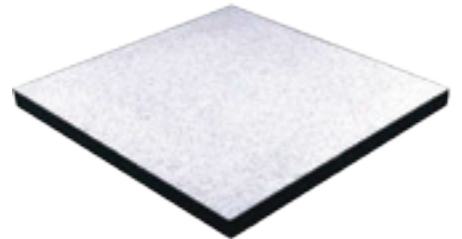
- Static dissipative and conductive high pressure laminate
- Designed for use in various building applications
- Superb rolling and ultimate load performance
- Light weight cementious infill panels delivers superior acoustic & strength
- Entirely non-combustible
- Epoxy paint finish provides extended protection against environmental degradation



## MATRIX PANELS

### Features

Environmental friendly, water resistant, fire resistant, core panel made of light weight chipboard, anti-static performance, demonstrate stability in varying humid and temperature conditions, sturdy edge details ensure extended life



## CALCIUM SULPHATE PANELS

### Encapsulated Calcium Sulphate panel

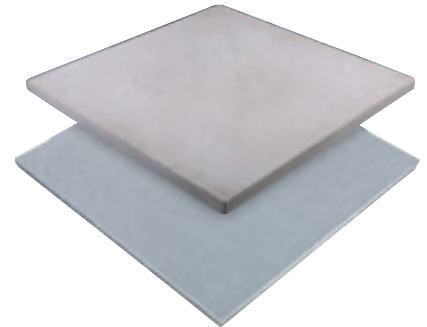
**Size:** 600mm×600mm×30mm(25mm)

**Structure:** High density calcium sulphate core

**Surface finish:** HPL, Vinyl, Rubber, Carpet, steel plate

**Bottom:** Galvanized steel plate or aluminum

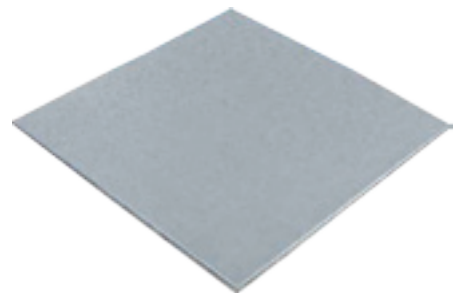
**Edges:** PVC/ABS



## COMPOSITE PANELS

**Size:** 600mm×600mm×30mm(25mm)

**Structure:** High density chipboard core or calcium sulphate, encapsulated galvanized steel plate, four sides galvanized steel.



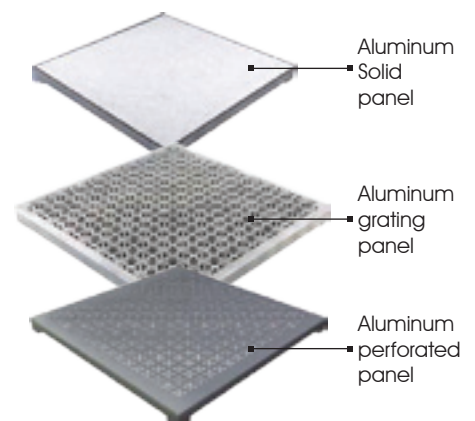
## ALUMINUM PANELS

Access floor panels are die-casted with aluminum ingot which demonstrate light weight and anti corrosion. To meet clean room applications, Apsilon offers 20% open area perforated panels or a 50% open area grating panels. In order to achieve 6,500 kg axial loading conditions, pedestals are designed with reinforced ribs for maximum endurance.

**Size:** 600 mm x 600 mm & 610 mm x 610 mm

**Thickness:** 24 mm

**Static Resistivity:** 10 to 10 ohm-meters

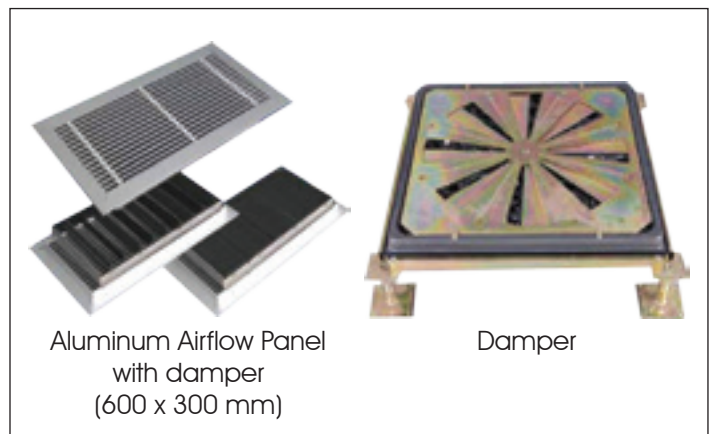
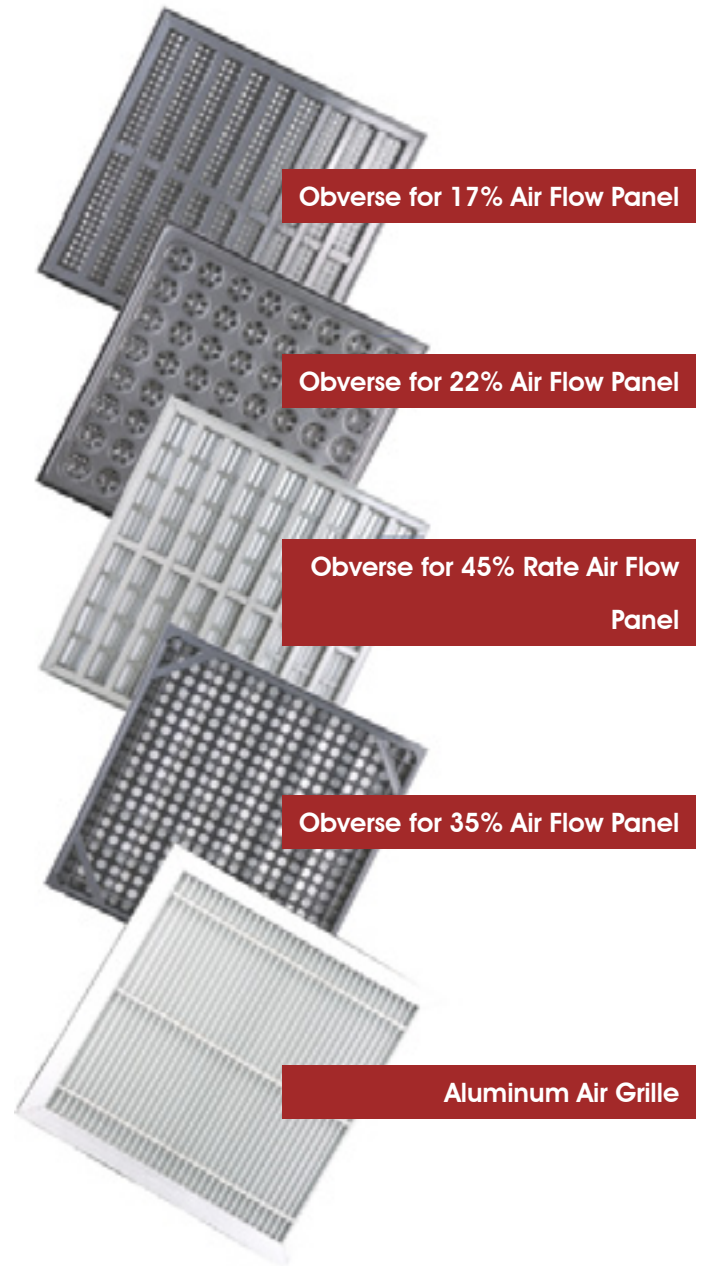
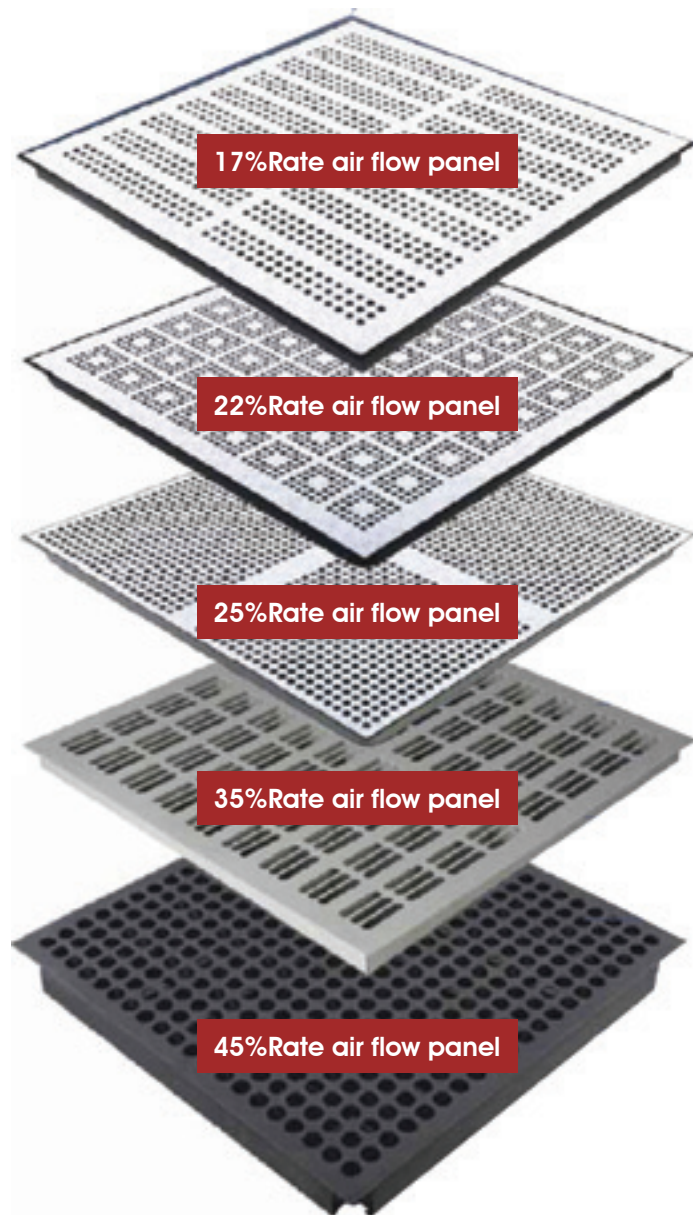


# AIR FLOW SYSTEM

Steel perforated panel is special design which are used to allow underfloor air conditioning to flow through the floor up to the equipment.

**Feature:** Provide superior cooling for managing heat loads in mission critical facilities. Available with top , surface adjustable dampers. The steel perforated panels are same size and finish as the solid panel so they are available with High Pressure Laminates, Vinyl and rubber floor coverings interchangeable with wood-core panel/ calcium sulphate panel.

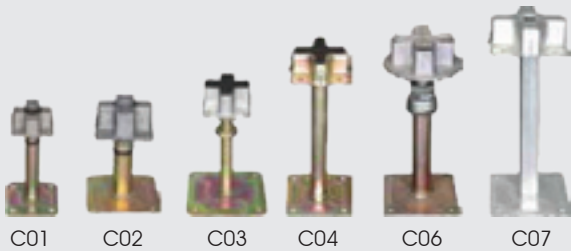
**Size:** 600(610)mm×600(610)mm×35mm



# UNDER STRUCTURE



Stringers



C series pedestals is recommended for  
Sigma panels  
Min FFH: 50 mm Max FFH: 2000 mm



F series pedestals is recommended for bare  
finish panels  
Min FFH: 50 mm Max FFH: 2000 mm



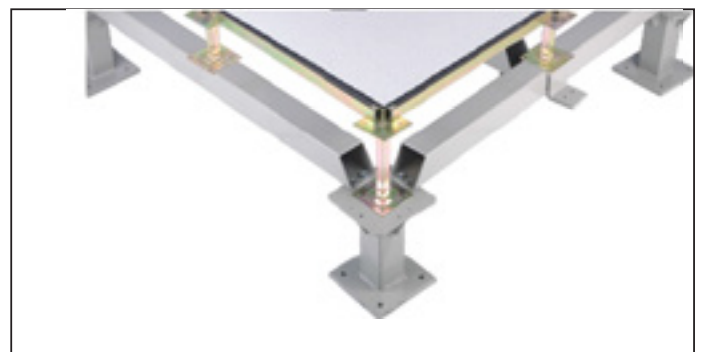
W series pedestals is recommended for  
Matrix panels  
Min FFH: 50 mm Max FFH: 2000 mm



Seismic pedestal



Ramp  
pedestal



120cm×120cm seismic understructure

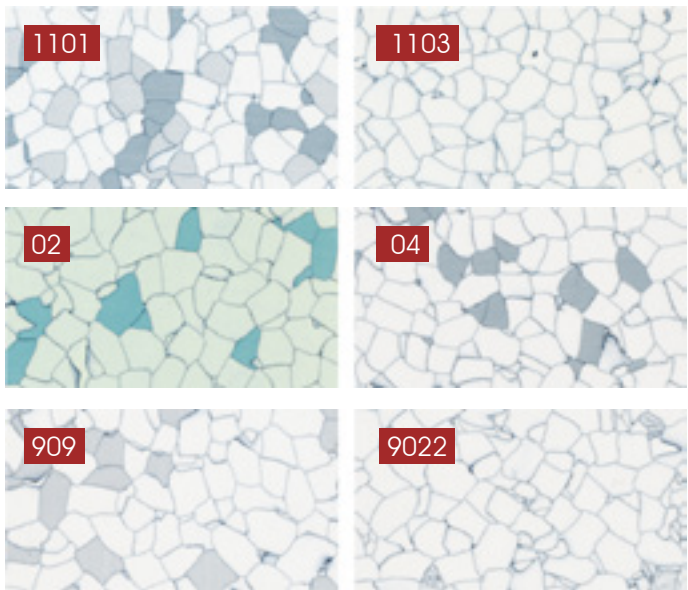
# SURFACE FINISH OPTIONS

At Apsilon Access Floors, we offer a wide assortment of panel surface finish options so that you are sure to find an appropriate complement to your decor.

**Our wide selection includes the following finish options:**

- Conductive PVC Tile
- HPL
- Linoleum
- Ceramic Tile
- Vinyl Tile PVC.

## CONDUCTIVE PVC TILE



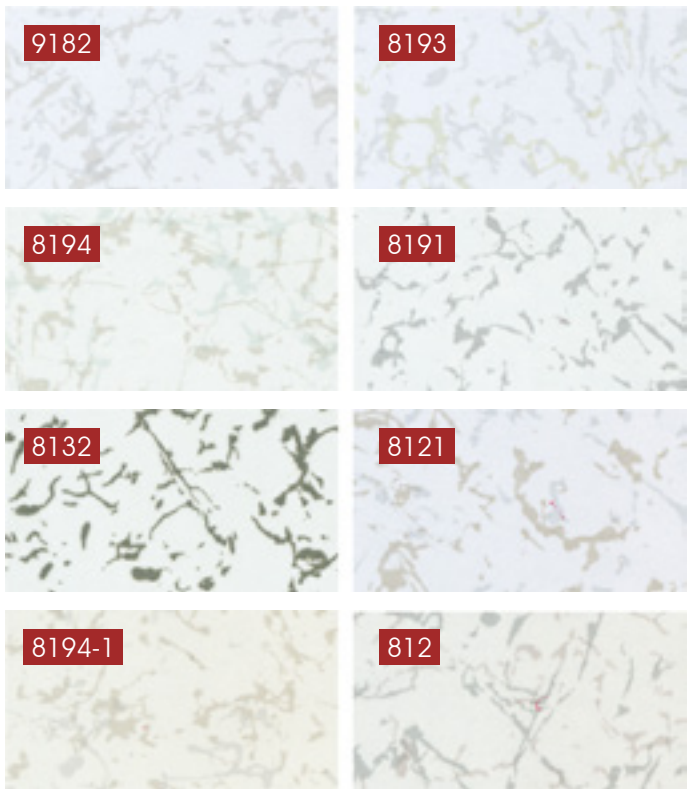
## LINOLEUM



## CERAMIC TILE



## HPL



## VINYL TILE V-02



Raised Access Floorings are used for general offices, call centers, computer rooms, pumping stations, control rooms, etc. The core of the panel is either from wood, calcium sulphate, or cementitious composite providing excellent lateral stability along with easy access for low, medium and heavy-duty applications with adjustable pedestals. Stringered or stringerless understructure with various types of coverings are available including high-pressure laminate panels.

## APPLICATIONS

Access floors through their infinite flexibility provide the key element required for today's intelligent buildings and equipment rooms. The simplistic concept of access floors can readily accommodate future changes whether they are organizational, technological or climatic in origin.

- General office
- Dealing rooms
- Call centers
- Computer rooms
- Foyers and boardrooms
- Laboratories, microelectronic facilities
- Information processing
- Telephone exchanges and switching centers
- Brokerage Trading rooms
- Pumping Stations
- Control Rooms.
- Laboratories
- Hospitals
- Light Manufacturing.

## BENEFITS

- Reduces risk of premature building obsolescence.
- Reduces design time – services reticulation can be deferred.
- Accelerates construction cycle.
- Helps keep tenants for long term.
- Overcomes many problems with renovations of existing buildings.
- Maximizes lettable area.
- Reduces initial fit-out costs.
- Reduces costs of churn (rate of change over time) for life of occupancy.
- Maximizes flexibility of layout.
- Provides infinite capacity for services growth.

### Using Underfloor Air Distribution

- Greater benefits will be generated for all parties if underfloor air distribution is provided in conjunction with a BETA Access Floor system.
- Green and sustainable office buildings, combining Underfloor Air Distribution, assist in delivering reduced energy costs, improved indoor air quality and enhanced personal comfort, reconstituted stone, wood, plastic laminates, PVC, linoleum, rubber, marble, granite and stainless steel to suit most decors and designs.



# TESTING CRITERIA

## STATIC PERFORMANCE – TESTS

Access Floors in all applications will be subject to various forms of static/live loads. They are rated in accordance with their ability to accept static loads without deflecting beyond a nominated value.

### 1. Concentrated loads

These loads are the most common and most extreme because they are transmitted through the feet of stationary furniture, office and computer equipment, workstations, demountable partitions, etc.

### 2. Ultimate load

Specifying an adequate ultimate load of no less than 3 times concentrated design load will ensure that accidental overload does not result in dangerous floor collapse.

### 3. Uniform load

An access floor designed with concentrated loads and appropriate ultimate loads as the critical factors, better reflects reality. Such a floor will comfortably accommodate large uniform loads.

## DYNAMIC PERFORMANCE – SIMULATION TESTS

An access floor is subjected to various dynamic loadings over its lifetime. The dynamic performance capability of an access floor is defined as its certified capacity to accept a range of rolling loads, accidental impact loads and foot traffic without failure or loss of utility.

### Rolling loads

There are three definable types of rolling load which an access floor needs to handle without protection.

#### 1. Infrequent random path

These are created by infrequent loads rolled across a floor on small, hard wheels.

#### 2. Frequent random path

These are created by the movement of manual trolleys, paper dollies and supply carts used daily.

#### 3. Frequent fixed path

This class of rolling load is typically used to simulate foot traffic loads in high frequency areas.

### Impact loads

Impact loads most often occur during the construction cycle, initial fit-out, move-in and during equipment and furniture re-arrangement, uniform loads

## OTHER PERFORMANCE CRITERIA

### 1. Earthing

All metal components should have continuity to Mains earth with a maximum resistance of one Ohm (AS 3000).

### 2. Flammability and thermal containment

Prior to the application of floor coverings, access floor

panels should provide a minimum of heat transfer and maximum fire retardation capabilities.

### 3. Acoustics

Acoustic attenuation of access floor systems confirmed by certified tests should be considered in office applications.

## FEATURES

### Construction

The combination of a wide range of steel grades and thicknesses in conjunction with a range of concrete strength provides the most economic series of product grades, capable of matching the most demanding requirements.

### Understructure

Simple, but structurally effective understructure support systems, with excellent corrosion protection, cover the full range of floor heights.

### Adjustment

Pedestal assemblies are designed to provide a wide range of height adjustment.

### Size

The standard system module is 600mm x 600mm, with extremely close tolerances to ensure fully interchangeable panels.

### Finishes

Standard surface finishes are coated steel for carpet and durable anti-static high-pressure laminate.



## BENEFITS

### Durability

The inert combination of steel and concrete maximizes durability and performance for the widest range of structural and dynamic loads. High factors of safety achieved by BETA Access Floor provides great peace of mind and security.

### Meets Standards

The development of BETA Access Floor started with the need to meet and exceed the most rigorous standards and specifications used Internationally. This

starting point means that there is a BETA Access Floor grade to meet every standard. Ongoing research and quality assurance in BETA Access Floor's development laboratory ensures that whatever the application there is a BETA Access Floor System to meet it

### Quiet

BETA Access Floor Panels have the sound and feel of a concrete slab. Tests show measurably superior acoustic performance.

## STRUCTURAL RANGE

### Panel strength

The choice of BETA Access Floor panels and support systems provide an extensive range of effective strength to suit any application.

Concentrated design loads ranging from 3.0kN to 6.0kN cover almost every conceivable requirement.

### Safety

BETA Access Floor Systems provide a safety factor of three times concentrated design load.

### Testing

Full testing facilities are located at the manufacturing plant for Certification and Quality Assurance programs. All testing

is conducted on randomly selected standard product.

### Floor Heights

Recommended nominal finished floor heights for standard product are:

**BETAFIX** 75mm to 750mm

**Stringerless** 75mm to 300mm

**Stringered** 150mm to 900mm

## PERFORMANCE DATA

### BETA Access Floor performance specification guide

**Electrostatic Resistance**  
Minimum 5 x 10<sup>5</sup> Ohms  
Maximum 2 x 10<sup>10</sup> Ohms

System Type		Static loads		Rolling loads			Impact Loads
Panel Type	Understructure System	Concentrated Load 25 mm Square	Ultimate Load 25 mm Square	75mm x 25 mm 10 passes	150 mm x 50 mm 10,000 passes	200mm x 75mm 2.25 kN	25 mm square
BF750X	Stringerless BETAFIX (BF100)	3.0kN	9.0kN	2.7kN	2.7kN	40,000 Passes	45Kg
BF750G	Stringerless Gravity held (BF102)	3.0kN	9.0kN	2.7kN	2.7kN	40,000 Passes	45Kg
BF750B	Bolt-on Stringer Gravity held (BF104)	4.0kN	12.0kN	2.7kN	2.7kN	40,000 Passes	68Kg
BF1000X	Stringerless BETAFIX (BF100)	4.5kN	13.5kN	4.4kN	3.3kN	250,000 Passes	45Kg
BF1000G	Stringerless Gravity held (BF102)	4.5kN	13.5kN	4.4kN	3.3kN	250,000 Passes	45Kg
BF1000B	Bolt-on Stringer Gravity held (BF104)	4.5kN	13.5kN	4.4kN	3.3kN	250,000 Passes	68Kg
BF1350X	Stringerless BETAFIX (BF100)	6.0kN	18.0kN	5.5kN	4.4kN	500,000 Passes	68Kg
BF1350G	Stringerless Gravity held (BF102)	6.0kN	18.0kN	5.5kN	4.4kN	500,000 Passes	68Kg
BC1350B	Bolt-on Stringer Gravity held (BF104)	6.0kN	18.0kN	5.5kN	4.4kN	500,000 Passes	68Kg

### Technical Data

This chart provides an easy means of selecting the BETA Access Floor system to match the static and dynamic performance requirements of your project.

### Testing Criteria

BETA Access Floor has been designed specifically to meet EN 12825. Impact loads are applied by dropping specified mass from 900mm onto a spreader located centrally over a 25mm square indenter.

### Technical Details

**Panel Tolerances:** ± 0.2mm Size, ± 0.25mm Squareness, ± 0.5mm Flatness.

#### Pedestal Loading

Pedestals can accept 22.5kN

**Fire Rated:** Fire hazard indices under Standard AS 1530 Part 3.

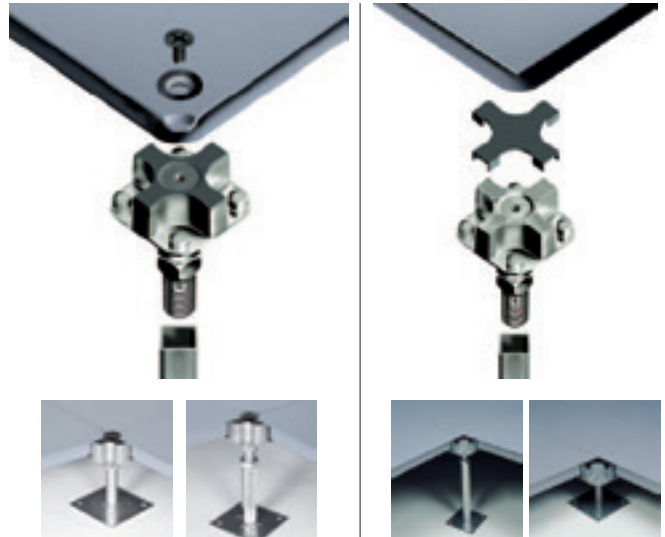
# UNDERSTRUCTURE SYSTEMS

## BETAFIX Stringerless

- Provides maximum underfloor accessibility, while providing rigid membrane for high stability.
- Standard finished floor height systems provide for nominal finished floor heights from 150mm to 750mm with  $\pm 25$ mm minimum height adjustment (BF100).
- Low finished floor height systems provide for nominal finished floor heights from 75mm to 200mm with  $\pm 10$ mm minimum height adjustment (BF101).
- BETAFIX Pedestal head design provides lateral stability and rigidity, with positive location lugs to ensure safety.

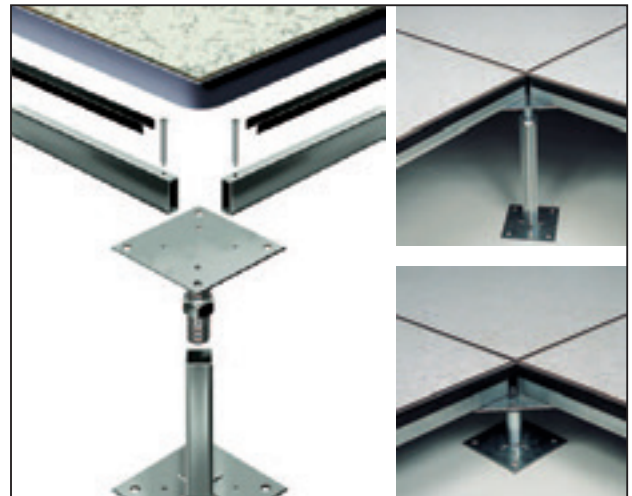
## FREELAY Stringerless

- Absolutely maximizes underfloor accessibility, while providing moderate stability.
- Standard finished floor height systems provide for nominal finished floor heights from 150mm to 300mm with  $\pm 25$ mm minimum height adjustment (TF102).
- Low finished floor height systems provide for nominal finished floor heights from 75mm to 200mm with  $\pm 10$ mm minimum height adjustment (TF103).
- Using the BETAFIX Pedestal head with special clip on gasket, the positive location lugs ensure system stability. Note however, the recommended height limits.



## BOLTED Stringer System

- Provides maximum grid rigidity under the most demanding conditions. Additional rigidity may be achieved using double length stringers (1200mm) (Codes BF104 and BF105 for low floor height).
- The panel is captured between the stringers to maximize void clearances.
- Freelay panels allow extreme frequencies of access without loss of structural rigidity.
- Provides reference grid grounding capability.
- Understructure resistance to earth of less than 1 ohm provides excellent life safety protection.



## PEDESTALS ASSEMBLIES

1. Standard field pedestal Assembly for Applications above 150mm Finished Floor Height.
2. Standard Perimeter Pedestal Assembly above 150mm Finished Floor Height.
3. Low Field Pedestal Assembly for Applications from 75mm Finished Floor Height with Equipotential Bonding Washer.
4. Low perimeter Pedestal Assembly for Applications from 75mm Finished Floor Height.



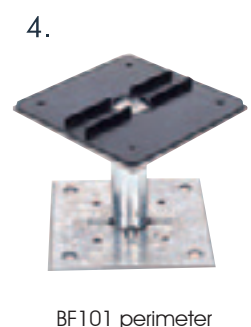
BF100



BF100 perimeter



BF101



BF101 perimeter

# BETA FLOOR WOOD-CORE

## FEATURES

### Construction

Panels are made by sandwich method of a high density particle board core, 38mm thick, clad with adhesion bonded hot dipped galvanized steel sheets and finished with high pressure laminate.

### Understructure

A complete range of understructure including stringerless and bolted stringer and low finish floor height pedestals.

### Adjustment

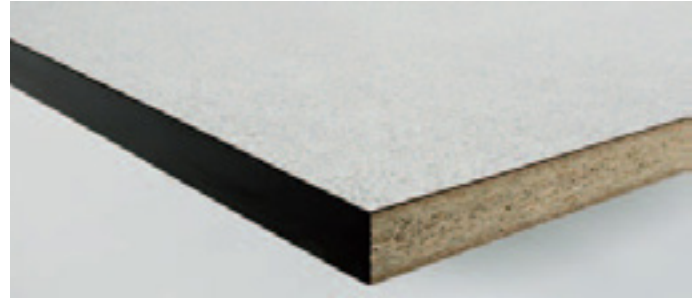
Pedestal assemblies for a wide range of total adjustment.

### Size

Standard system module is 600mm x 600mm.

### Finishes

The panel is finished in a standard high pressure laminate (HPL).



## BENEFITS

### Durable

The structural composition of a high density particle board core and steel bonded together creates a durable access floor for both static and dynamic loads.

### Precision Sizing

Panels are completely interchangeable for easy relocation.

### Meets Standards

System options are available, to comply with Standard AS2834 – 1995 Computer Accommodation and AS4154 – 1993 Standard - General Access Floors (Elevated Floors).

### Fire Safety

The panels are tested in accordance with Standard AS1530 Part 3 - 1989. Indices achieved are ignitability.

### Quiet

The high grade wood-core has excellent sound attenuation.

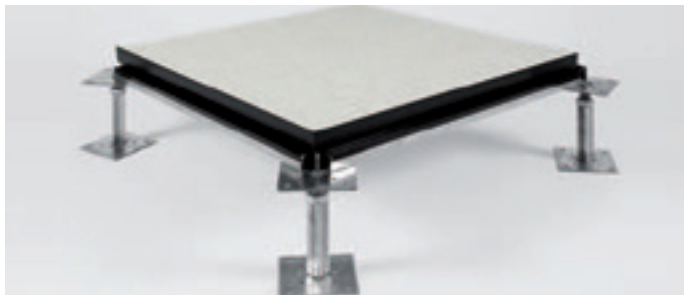
### Electrostatic Resistance

Minimum  $5 \times 10^5$  Ohms / Maximum  $2 \times 10^{10}$  Ohms

## FINISHES

### E-Trimmed Laminate (C type)

Panels are constructed with a PVC trim strongly bonded to the panel edge and set flush with the high pressure laminate top surface.



## BETA Wood-core performance selection chart

1kN is equivalent to 102Kg

System Type		Static loads		Rolling loads		Impact loads
Panel Type	Understructure System	Concentrated Load 25 mm Square	Ultimate Load 25 mm Square	75mm x 25mm 10 passes	150 mm x 50 mm 10,000 passes	25 mm square
B38	Corner Support Gravity held (FB 103)	4.0kN	11.0kN	3.3kN	2.7kN	45Kg
	Standard Stringer Gravity held (FB 100)	4.5kN	13.5kN	4.0kN	3.3kN	45Kg

## UNDERSTRUCTURE SYSTEMS

### Bolted Stringer System (FB 100)

- Heavy duty stringers 25mmx25mm welded tube sections.
- Maximum rigidity for most demanding static or seismic conditions. Additional rigidity may be achieved using double length stringers (1200mm).
- Reference grid grounding capability.
- Understructure resistance to earth maximum 1 ohm over 16 meter



### Stringerless System (FB 103)

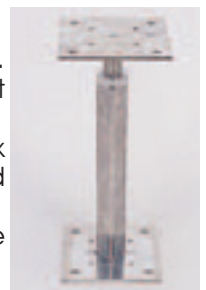
- Low finished floor height systems of heights from 75mm to 150mm.
- Standard finished floor height of heights from 150mm to 750mm.
- Provides maximum accessibility to underfloor void.
- Pedestal and Gasket design provides lateral stability without bolted or fixed obstructions.



## PEDESTALS

### Standard finished floor height assembly

- For FFH applications (150mm to 750mm).
- Provides for  $\pm 25$ mm minimum height adjustment.
- Features fully adjustable tab lock adjusting nut, hot-dipped galvanized steel components.
- Accepts 22.5kN axial load without failure or loss of function.



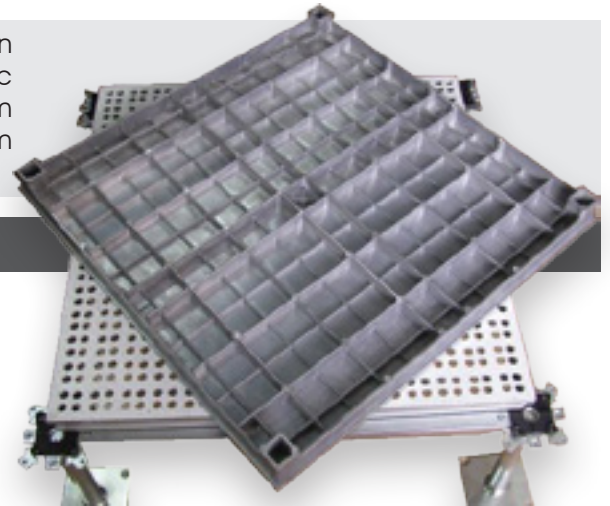
### Low finished floor height assembly

- For LFFH applications (75mm to 150mm).
- Provides  $\pm 10$ mm minimum height adjustment at 75mm FFH.
- Recommended for stringerless systems.
- Features adjustable threaded head assembly with anti rotation gasket, hot-dipped galvanized steel.
- Accepts 22.5kN axial load.



# BETA ALUMINUM ACCESS FLOOR SYSTEM

BETA Aluminum Access Floor Systems are commonly used in biomedical, microelectronic, pharmaceutical and scientific laboratories. This Aluminum System combines die cast aluminum panels and stainless steel or aluminum understructure to form a non corrosive and non ferrous work platform.



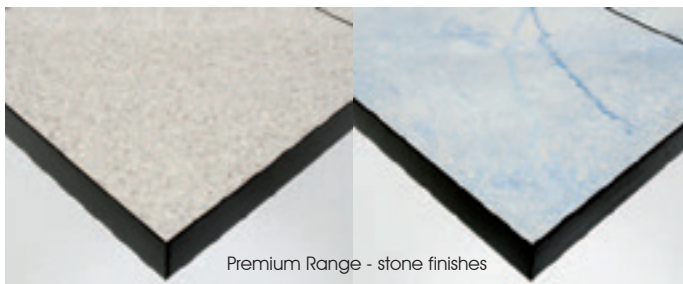
## BENEFITS

- Precise size for easily interchangeable.
- Non magnetic.
- Die cast aluminum panels meet AS standard 4154.
- Light weight for ease of handling.
- Excellent rolling and concentrated load performance.
- Bare coating finish.
- Can be hosed cleaned.
- Available in a wide range of anti-static finishes.

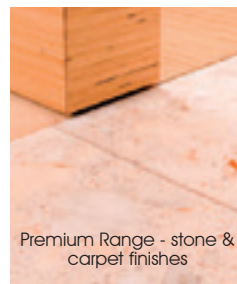
## PREMIUM RANGE OF ACCESS FLOOR FINISHES

**BETA Access Floors continues to improve their product offering to the market with the introduction of BETA's 'Premium' range of access floor finishes.**

BETA's 'Premium' range of access floor finishes allows you to add style and maintain the full functionality and benefits of an access floor with your selected stone and timber finishes manufactured onto a modular 600mm x 600mm panel. We have a highly aesthetic and architecturally designed range of products with finishes including reconstituted stone, wood, plastic laminate, rubber, pvc, linoleum, parquet, marble and granite, ceramic granite and stainless steel.



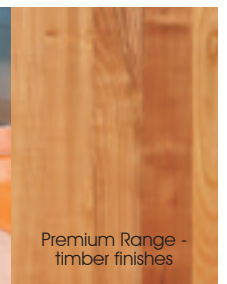
Premium Range - stone finishes



Premium Range - stone & carpet finishes



Premium Range - carpet & timber finishes



Premium Range - timber finishes

## MODULAR CARPET TILE SYSTEM

### BETACARP 60CM CARPET TILE SYSTEM

**Carpet Tile System BETACARP 60cm Modular Carpet Tile System produces a synchronized fit between carpet tile and access floor panel.**

The carpet tiles are accurately cut (600mm x 600mm) to exactly match the access floor grid. Using the BETACARP System reduces time, waste and hassle for normal underfloor access and subsequent churn and is ideal for use with underfloor air conditioning systems with easy access to underfloor services and allows panels to be relocated with air service outlets attached to them. The BETACARP System secures the carpet tile to the panel to create a very stable surface. The BETACARP system is designed specifically for use with bare surface finish Beta Access Floor Systems. Carpet tile waste is eliminated when service outlets within access floor panels are relocated because each BETACARP Carpet Tile can follow the panel to its new location. There is a massive range of colors and patterns available in carpet tiles, or develop your own design to fit your interior color scheme.

## BENEFITS

- Retained flexibility of an access floor with a carpet finish.
- Compatible with Underfloor Air Distribution Systems.
- Carpet tiles are attached to the access floor panels and can be detached easily if required.
- Moving the carpet tile and panel combination is easy.
- Extensive range of carpet finishes available.

# UNDERFLOOR AIR DISTRIBUTION

## HOW DOES IT WORK IN GENERAL OFFICE ENVIRONMENTS

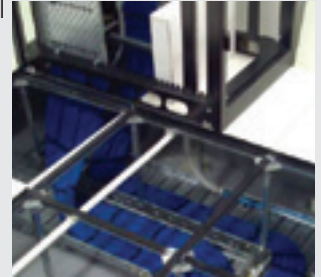
**Access floors can deliver unlimited ability to house and reticulate data and electrical services on demand and includes underfloor air distribution.**

Many green and high-performance sustainable buildings worldwide are now incorporating underfloor air distribution. Whether using chilled beams, conditioned air to the floor void, or just using the floor void to distribute fresh air, access floors combine to assist in reducing energy costs, improving indoor air quality, and enhancing personal comfort and productivity.

To enhance the effectiveness of the underfloor air distribution BETA ACCESS FLOOR has locally designed an underfloor plenum divider system for breaking underfloor areas into different zones. This allows greater flexibility when cooling internal or perimeter zones.

## BENEFITS

- Designed to provide better health productivity and contentment of staff within the office environment.
- Improved ventilation is achieved as a clean, fresh and healthy air supply from floor to ceiling stratifies the air and enhances natural convection.
- Personalized local comfort control.
- Faster churn capabilities.
- Facilitates energy savings with improved air distribution.



## HOW TO SPECIFY

### Performance Needs

Access Floors are often seen through simplistic eyes when the actual use is stunningly rigorous and variable. Access Floors mostly form part of the building fabric and as such need to match the design and/or economic life of the building. This requires a thoughtful and detailed approach to specify the needs.

Set out below is a series of short specifications nominating BETA Access Floor systems, under the grading system used by the Standard EN 12825.

BETA (Steel/Cementitious) Access Floor systems are designed for long term facilities exposed to regular dynamic loadings. The system is completely inert and non-combustible. The access floor is typically installed at base building stage of the construction cycle and used as a construction platform for easy use by the base build and fit-out trades.

## APPLICATIONS & SELECTIONS

### - General Office:

BETA Stringerless BETAFIX, Medium Grade Access Floor System. Panel surface bare, ready for modular carpet tiles by others.

### - Dealing Room:

BETA Stringerless BETAFIX, Heavy Grade Access Floor System. Panel surface bare, ready for modular carpet tiles by others. Code: BF1000U panel & BF100 Understructure System or for very quick access situations, freelay panels.

### - Call Centre

BETA Stringerless BETAFIX, Medium Grade Access Floor System. Panel Surface bare, ready for modular carpet tiles by others. If very high population density then Heavy Grade should be considered.

### - Computer Room

BETA Stringered Gravity Held, Heavy Grade Access Floor System. Panel surface is factory finished in anti-static High Pressure Laminate.

### - Information Processing

BETA Stringered Gravity Held, Heavy Grade Access Floor System. Panel surface is factory finished in anti-static High Pressure Laminate. If very heavy loadings then Extra Heavy Grade should be considered.

### - Telephone Exchange

BETA Stringered Gravity Held, Heavy Grade Access Floor System. Panel surface is factory finished in anti-static High Pressure laminate. If very heavy loadings then Extra Heavy Grade should be considered.



# HOW TO SPECIFY

## WOOD-CORE

Generally BETA Wood-core products are suitable for smaller or short term facilities plus projects with special requirements or configurations. Typically installed at fit-out stage of construction cycle.

### APPLICATIONS & SELECTIONS

#### - General Office:

Generally not recommended. Beta Systems should be used. Alternatively a Wood-core System can be supplied.

#### - Computer Room

Computer room BETA Stringered Gravity Held, Heavy Grade Access Floor System. Panel surface is factory finished in anti-static High Pressure Laminate.

#### - Telephone Exchange

BETA Stringered Gravity Held, Heavy Grade Access Floor System. Panel surface is factory finished in anti-static

High Pressure laminate.

#### Understructure System.

If very heavy loadings then Beta Extra Heavy Grade should be considered.

#### - Information Processing

BETA Stringered Gravity Held, Heavy Grade Access Floor System. Panel surface is factory finished in anti-static High Pressure Laminate. If very heavy loadings then Beta Extra Heavy Grade should be considered.



## ALUMINUM

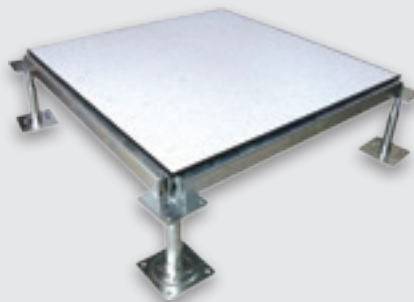
BETA Aluminum products are non-ferrous and non-corrosive which make them suitable for areas of high moisture or corrosive chemicals are used or where magnetic sensitivity is an issue.

### APPLICATIONS & SELECTIONS

#### Laboratories and other non-magnetic, non-corrosive applications:

BETA Freelay and Stringered Medium Grade Aluminum Access Floor System. Panel surface is available in a wide range of anti-static finishes.

If heavy loading then use the Heavy Grade panel.



## PREMIUM RANGE

BETA Premium Range are a highly aesthetic and architecturally designed range of products with finishes including reconstituted stone, wood, plastic laminate, rubber, pvc, linoleum, parquet, marble and granite, ceramic granite and stainless steel. These products are used in aesthetic important areas.

### APPLICATIONS & SELECTIONS

#### - Foyes, reception areas, boardrooms

BETA Premium range is available in Freelay and Stringered Systems and in Medium and Heavy Grade. Please contact BETA for more information when specifying.

## ACCESSORIES



#### **INNOVATIVE TECHNOLOGIES FOR THE DESIGN OF ENERGY EFFICIENT BUILDINGS**

Sustainable building solutions, innovative new technologies, and award winning design. At the heart of King-span's approach is the drive to help our customers achieve improved building performance. Forty years ago, a small family construction business in Ireland decided to dream big. We are committed to providing pioneering new technologies in insulation and low energy solutions worldwide, as well as support sustainability efforts and communities here in the US.

### **Access Floor Systems**

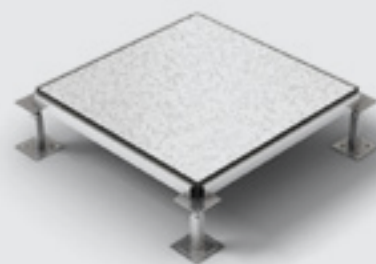
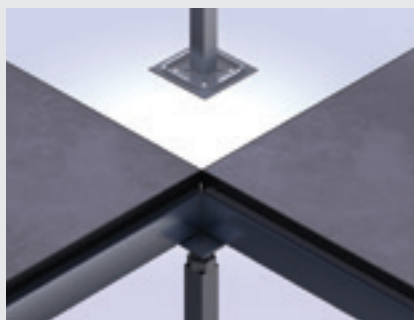
#### **The Perfect Solution For Any Project**

Whether it's helping architects and designers create signature looks and energy & cost efficient UFSD systems for commercial buildings, or engineering flexible, secure, and reliable data center environments, Tate is the industry leading global provider of innovative next generation raised access floor systems.

The perfect indoor environment in any commercial building should address a variety of needs. These needs include maintaining high-quality clean air, improving personal comfort control, attenuating noise, responding to organizational and technological changes quickly and easily, and supporting the overall aesthetic value of the building – all while being cost-effective in both construction and operation. With Tate's access floors and underfloor service distribution system, you have the ability to address all of the factors required to create the perfect indoor environment that will reflect the goals and image of your organization.

# CONCORE PANELS

ConCore® Raised Access Floor panels are epoxy coated utilized shells consisting of a flat steel top sheet welded to a formed steel bottom sheet filled with a highly controlled mixture of a lightweight cement infill. Manufactured to exacting tolerances, these non-combustible, rigid panels deliver the ultimate in strength, durability, and acoustic performance.



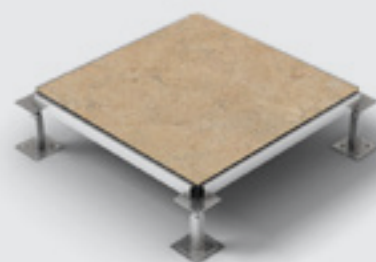
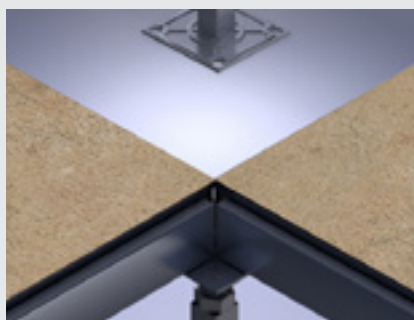
## ConCore® Performance Selection Chart

System Performance Criteria\* (tested on actual understructure)

Panel	Understructure	System Weight lbs/ft <sup>2</sup>	Static Loads			Rolling Loads		Impact Loads lbs (kg)
			Design Loads <sup>1</sup>	Min. Ultimate	Safety Factor <sup>2</sup>	10 Passes	10,000 Passes	
ConCore® 1000	Bolted Stringer	9.0 lbs/ft <sup>2</sup>	1000 lbs	2000 lbs	PASS	800 lbs	600 lbs	150 lbs
ConCore® 1250	Bolted Stringer	10.0 lbs/ft <sup>2</sup>	1250 lbs	2500 lbs	PASS	1125 lbs	800 lbs	150 lbs
ConCore® 1500	Bolted Stringer	10.5 lbs/ft <sup>2</sup>	1500 lbs	3000 lbs	PASS	1250 lbs	1000 lbs	150 lbs
ConCore® 2000	Bolted Stringer	11.5 lbs/ft <sup>2</sup>	2000 lbs	4000 lbs	PASS	1500 lbs	1250 lbs	200 lbs
ConCore® 2500	Bolted Stringer	12.0 lbs/ft <sup>2</sup>	2500 lbs	5000 lbs	PASS	2000 lbs	2000 lbs	200 lbs
ConCore® 3000	2" Deep Bolted Stringer	13.0 lbs/ft <sup>2</sup>	3000 lbs	6000 lbs	PASS	2700 lbs	24600 lbs	300 lbs

# ALL STEEL RAISED FLOOR PANELS

All Steel Access Floor panels are epoxy coated unitized shells consisting of a flat steel top sheet welded to a formed steel bottom sheet. Manufactured to exacting tolerances, these non-combustible rigid, solid panels deliver the ultimate in strength and durability with the convenience of lightweight construction. All Steel Panels are engineered to meet Tate Standards per CISC testing methods.



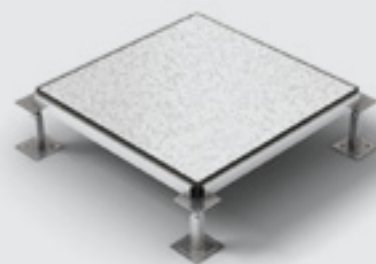
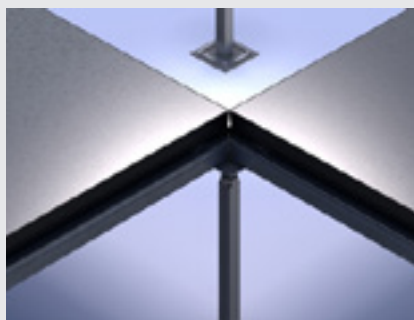
## All Steel® Performance Selection Chart

System Performance Criteria\* (tested on actual understructure)

Panel	Understructure	Static Loads			Rolling Loads		Impact Loads lbs (kg)
		Design Loads <sup>1</sup>	Min. Ultimate	Safety Factor <sup>2</sup>	10 Passes	10,000 Passes	
All Steel 1000	Bolted Stringer	1000 lbs	2000 lbs	PASS	400 lbs	400 lbs	150 lbs
All Steel 1250	Bolted Stringer	1250 lbs	2500 lbs	PASS	500 lbs	500 lbs	150 lbs
All Steel 1500	Bolted Stringer	1500 lbs	3000 lbs	PASS	600 lbs	600 lbs	150 lbs

# COMPOSITE BOARD PANEL

ConCore® Raised Access Floor panels are epoxy coated utilized shells consisting of a flat steel top sheet welded to a formed steel bottom sheet filled with a highly controlled mixture of a lightweight cement infill. Manufactured to exacting tolerances, these non-combustible, rigid panels deliver the ultimate in strength, durability, and acoustic performance.



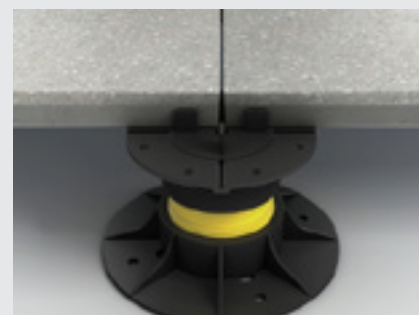
## Composite Board Panel® Performance Selection Chart

System Performance Criteria\* (tested on actual understructure)

System Type		System Weight lbs/ft <sup>2</sup>	Static Loads			Rolling Loads		Impact Loads
Panel	Understructure		Design Loads <sup>1</sup>	Min. Ultimate	Safety Factor <sup>2</sup> Safety Factor (min 2.0) <sup>2</sup>	10 Passes	10,000 Passes	
Composite Board Bare Steel	Heavy Duty Bolted Stringer	7 lbs/ft <sup>2</sup>	1250 lbs	2500 lbs	PASS	1000 lbs	800 lbs	150 lbs

# STONEWORKS® OUTDOOR ACCESS FLOOR PANELS

Tate's outdoor panels eliminate the need for two different products or finishes in the interior and exterior areas of a commercial building. Outdoor panels use the same manufacturing process as our STONEWORKS™ panels so the finish can be continuous inside and outside of the building. Our outdoor panels offers industry leading strength and durability. Designed with a sheet of e-coated steel laminated to the bottom of the panel and tested to Cisca access floor criteria, Tate's outdoor panels supply a sturdy, durable long lasting exterior solution with a high end finish.



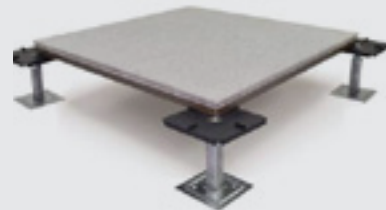
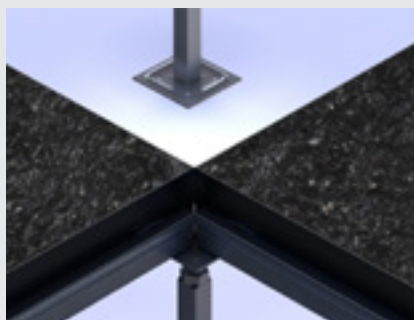
## STONEWORKS® Outdoor Performance Selection Chart

System Performance Criteria\* (tested on actual understructure)

System Type		System Weight lbs/ft <sup>2</sup>	Static Loads			Rolling Loads		Impact Loads	Impact Loads
Panel	Understructure		Design Loads <sup>1</sup>	Min. Ultimate	Safety Factor <sup>2</sup> Safety Factor (min 2.0) <sup>2</sup>	10 Passes	10,000 Passes		
Outdoor Panel	Bison Exterior Pedestals	14.3 lbs/ft <sup>2</sup>	750 lbs	1500 lbs	2.0	600 lbs	450 lbs	50 lbs	50 lbs

# STONEWORKS® ACCESS FLOOR PANELS

Tate's STONEWORKS panels eliminate the need for finish lamination as the high-end architectural finish and the structural integrity of the panel is combined into a single integrated panel. STONEWORKS panels are engineered to meet Tate Standards per CISCA testing methods.



## STONEWORKS® Performance Selection Chart

System Performance Criteria\* (tested on actual understructure)

Panel	Understructure	System Weight lbs/ft <sup>2</sup>	Static Loads			Rolling Loads		Impact Loads lbs (kg)
			Design Loads <sup>1</sup>	Min. Ultimate	Safety Factor <sup>2</sup>	10 Passes	10,000 Passes	
		(kg/m <sup>2</sup> )	lbs	Loads lb	min 2.0	lbs	lbs	
STONEWORKS® Panel (Eased Edge Only)	Free Standing	14.75 lbs/ft <sup>2</sup>	1250	1800	1.44	1000	800	100
STONEWORKS® Panel (Eased Edge & Edge Banded)	Heavy-Duty Bolted Stringer	15.5 lbs/ft <sup>2</sup>	1250	1800	1.44	1000	800	100
STONEWORKS® Panel (Eased Edge & Edge Banded)	Box Beam Stringer	16.5 lbs/ft <sup>2</sup>	2500	3750	1.5	2000	2000	200

## UNDERSTRUCTURE SYSTEMS

Tate has a complete line of understructure systems to meet the specific load capacity needs for your project, as well as provide proper positioning and air sealing capabilities. From four inch raised clearance to three feet of space underneath the floor, we have versatile systems for all types of installations.



## UNDERSTRUCTURE COMPATIBILITY

Panel	Bison Exterior*	PosiLock®	Bolted Stringer	Box Beam Stringer	Freestanding	Heavy-Duty Bolted Stringer
ConCore®		+	+			
All Steel		+	+			
Composite Board						+
STONEWORKS®				+	+	+
STONEWORKS® Outdoor	+					

\*Field Supplied by others.



# FLOORING SYSTEMS

Flooring Solutions

## FORBO FLOORING SYSTEMS

The Flooring Systems division is a global provider of premium commercial and residential floor coverings. With an extensive and attractive range of environmentally friendly linoleum, high-quality vinyl flooring, entrance flooring systems for cleaning and drying shoes, carpet tiles, needle felt floor coverings and Flotex – the washable textile flooring – as well as building and construction adhesives, we play a key role in shaping how people experience an environment.



# FORBO FLOORING SYSTEMS PRODUCTS

## LINOLEUM

A natural winner! Our linoleum floor coverings with the Marmoleum brand are natural floors associated with sustainability, durability, high quality and innovative design. Linoleum is made from natural raw materials and is the most sustainable flooring choice. The Marmoleum product range is a CO<sub>2</sub> neutral resilient floor covering, measured from cradle to gate. Discover the natural beauty of Marmoleum flooring with over 300 colors & designs, ranging from marbled to linear and concrete, available in sheet, tiles & planks.



## NATURAL DESIGN TILES

Our natural design range presents Marmoleum flooring in tiles and planks made from natural, renewable raw materials. Modern design with outstanding functionality, which stands for a healthy indoor climate and a responsible use of the environment. A powerful trend flooring - even for high traffic areas. Discover our ranges Marmoleum Modular, Marmoleum Click and Marmoleum Signature.



## LUXURY VINYL TILES

Are you looking for the aesthetics of natural wood and stone floors with the advantages of strong & comfortable vinyl tiles? Explore our NEW Allura LVT collections. Warm underfoot, excellent dimensional stability, easy installation & maintenance. We offer our LVT designs in several constructions to make sure there is always a suitable choice for your application. Discover Allura Dryback (fully adhered), Allura Flex (tackified loose lay), Allura Click (clickable loose lay), Allura Puzzle & Ease (fully loose lay), Allura Decibel (acoustic LVT) and Allura Color (homogeneous tiles).



## HETEROGENEOUS VINYL

Heterogeneous vinyl is a multi-layer vinyl with a printed top layer providing endless design possibilities, lasting performance and low maintenance cost. Our heterogeneous vinyl flooring is perfectly adapted for almost all application areas and we offer specialized flooring solutions like acoustic vinyl, slip resistant vinyl and loose lay vinyl. Go to the images below and explore our extensive range.



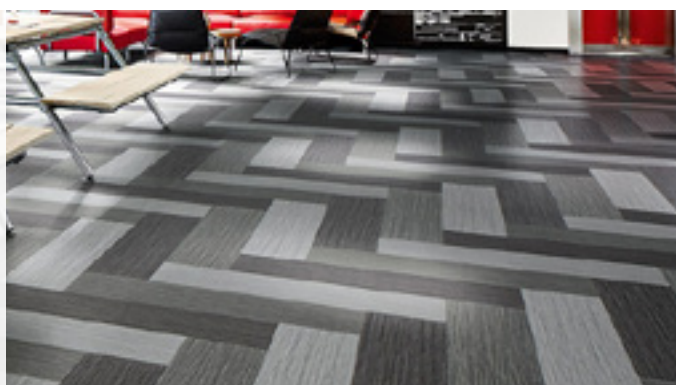
## HOMOGENEOUS VINYL

Vinyl floors are very popular because of their durability, low maintenance and versatility. Homogeneous vinyl is made of 1 single layer that offers vibrancy and depth of color. It is incredibly durable and stain resistant which makes it a great flooring choice for heavy traffic areas. Forbo presents its new Sphera sheet flooring which is produced with the latest technology and it's unique Allura Color easy to install tiles.



## FLOTEX FLOCKED FLOORING

Vinyl floors are very popular because of their durability, low maintenance and versatility. Homogeneous vinyl is made of 1 single layer that offers vibrancy and depth of color. It is incredibly durable and stain resistant which makes it a great flooring choice for heavy traffic areas. Forbo presents its new Sphera sheet flooring which is produced with the latest technology and it's unique Allura Color easy to install tiles.



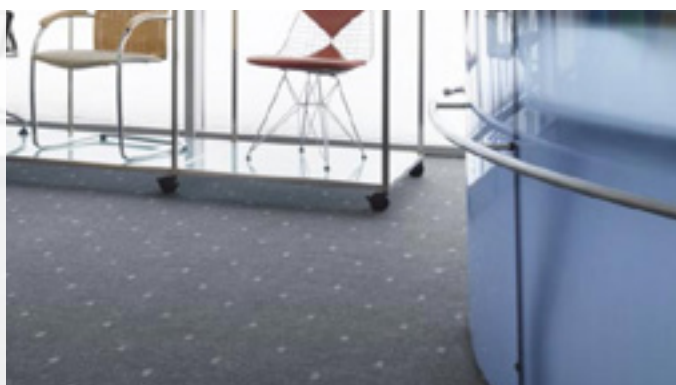
## CARPET TILES

Carpet tiles are renowned for their aesthetic styling and outstanding performance in the most demanding heavy traffic environments. Forbo Flooring offers a wide portfolio of tufted (Tessera) and flocked (Flotex) carpet tiles of 50x50 cm, as well as Flotex and Tessera planks of 100x25 cm with which stunning floor designs can be created.



## NEEDLE FELT

The robust, hard-wearing properties of our Needle felt floors make it ideal for installations that meet high traffic or where chairs with castors are likely to be used, such as in offices and retail establishments. Needle felt carpet often provides a cost-efficient alternative to conventional broadloom carpeting in heavily-used areas that require a practical & durable textile floor covering.



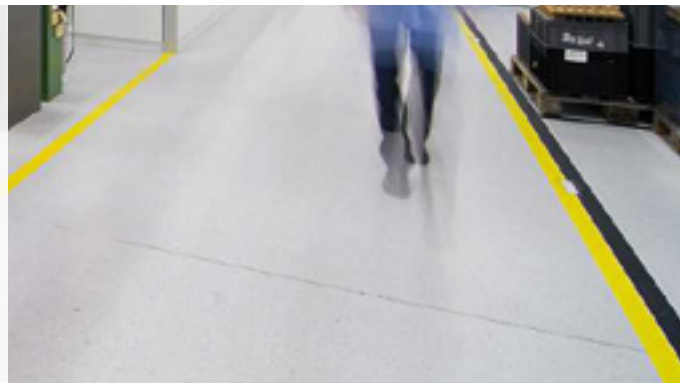
## ENTRANCE FLOORING SYSTEMS

Entrance flooring is fundamental to modern building design. A well designed entrance flooring system will prevent dirt and moisture from being tracked in and thereby prolongs the life of interior flooring, reduces cleaning & maintenance costs and the potential for slip injuries. With both textile (Coral) and rigid (Nuway) Entrance Systems in our portfolio, we can offer an entrance solution for every situation.



## ESD & CLEANROOM FLOORING

Protecting your technology. Forbo Colorex ESD & cleanroom flooring is an advanced technical flooring system specifically designed to control static discharge in sensitive areas such as cleanrooms, operating theaters and the electronics industry. We offer various Colorex ranges, each with its own specific performance. Read more about the subranges below. Colorex flooring is not only functional, it is also aesthetically pleasing in bright, fresh colors.



## ACOUSTIC FLOORING

Sound can have adverse effects on the human body such as sleeping disorders, stress and headaches. Acoustic floors have an important contribution when it comes to reducing noise in buildings. Forbo Flooring is a specialist in acoustic floors with more than 30 years of experience. In our resilient acoustic range you will find linoleum and vinyl floors with impact sound reductions up to 19dB.



## SAFETY FLOORING

Responsible for many accidents that lead to injury, slips and trips, floors have a lot to answer for. By choosing a Forbo safety floor the number of accidents caused by slipping can be reduced significantly. Our Step safety vinyl floor coverings have guaranteed life time slip resistant performance and offer safety solutions for a wide range of applications. Varying from R10 slip resistance (Surestep & Solidstep) to R11 & R12 (Safestep) for areas where higher slip risk is identified, like professional kitchens and flower shops.



## WETROOM SOLUTIONS

Forbo offers a complete wetroom solution with its Onyx vinyl wall coverings and Step safety flooring. Step is a particle enhanced slip resistance flooring that provides lasting protection and optimal hygiene. Onyx+ offers a smooth, hygienic wall surface in contemporary colors. Perfectly suited for commercial wetroom applications such as spa's, pools, changing rooms and wetrooms of health facilities.



## NON FLOORING PRODUCTS

Using linoleum for other purposes than flooring might not be the first thing you think of. However, we apply special pinboard linoleum to the wall and furniture linoleum to desktops, tables, kitchen doors etc. Have a look at our Bulletin Board & Furniture Linoleum collections and get inspired.



## BESPOKE DESIGN

Can't find what you are looking for despite our wide product range? No worries, we have more. Within our Bespoke Design flooring you can design your own unique floor with our digital print techniques in Flotex, Eternal project vinyl and Coral entrance flooring and the refined Aquajet cutting technique for Marmoleum flooring.



## CONSUMER PRODUCTS

The robust, hard-wearing properties of our Needlefelt floors make it ideal for installations that meet high traffic or where chairs with castors are likely to be used, such as in offices and retail establishments. Needlefelt carpet often provides a cost-efficient alternative to conventional broadloom carpeting in heavily-used areas that require a practical & durable textile floor covering.



## FAST FIT

Fast Fit is Forbo's collection of genuinely adhesive free products including entrance products and interior flooring ranges in sheet, tile and plank format for maximum flexibility.





# **FLOORING SYSTEMS**

## **Entrance Matting Systems**

Entrance mats Reduce dirt and moisture and are perfectly suited for the busiest areas. Their high dirt absorption rate and slip-resistant rubber backing make these mats the perfect solution for use in business entrances, receptions and where great levels of pedestrian traffic is causing dirt and moisture. Nexus Entrance matting systems provides heavy duty entrance mats composed of aluminium profiles with a carpet, brushes or rubber inserts. The combined actions of these materials perform as a dirt barrier preserving the cleanliness of the facility's flooring.

Our durable matting systems provide the most suitable solution for removing, absorbing and retaining dirt and moisture.

Our mats are manufactured from high quality raw materials to withstand heavy traffic in the busiest areas of each facility.

Our matting systems are easily maintained and serviced, and are built to last longer. Unlike other kinds of matting, Nexus entrance mats are very comfortable and silent.

They have been designed to avoid problems with heels and are suitable for wheeled traffic such as wheelchairs, babies prams and pushchairs.

**NEXUS Entrance Matting system is engineered to withstand heavy traffic, our range can be used in airports, shopping centers, supermarkets, department stores, cinemas, universities, healthcare centers, schools and universities, and is ideal for applications where performance under the severest of traffic conditions is required.**



Use in the outside area



Use in the inside area



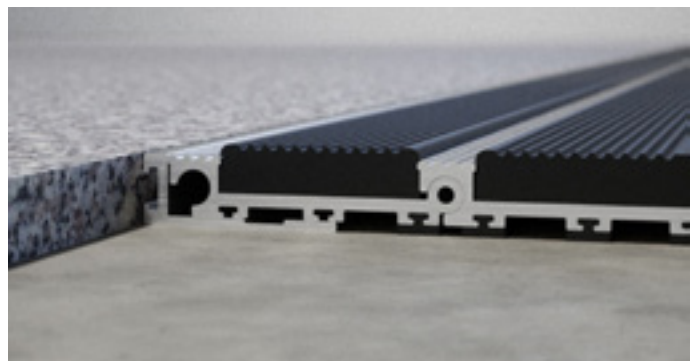
Wheelchair accessible



Recyclable

## Aluminum-Rubber Profile

### URFM 16

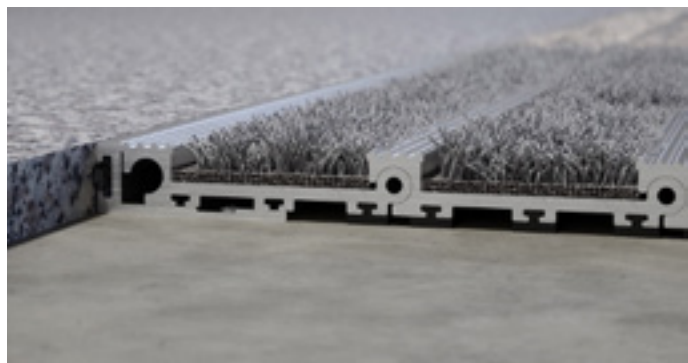
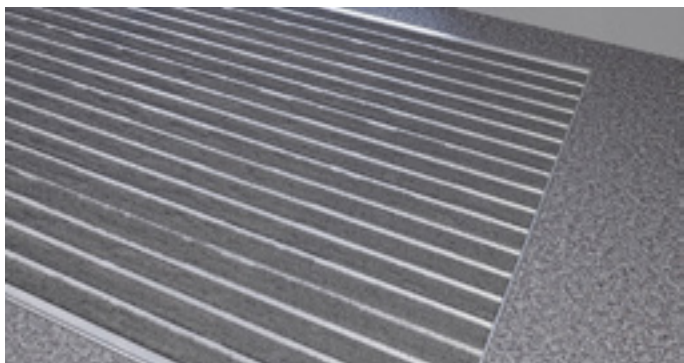


Entrance matting corrosion-resistant version can be used for outside as well as inside areas with normal to heavy traffic. It prevents dirt and moisture from entering the building and is available with anti-slip knurled rubber and aluminum. This type reduces noise generated from heavy traffic and is dimensionally stable and easy to clean.

<b>ALUMINIUM PROFILE</b>	Aluminium profile alloy 6063-T6, wall thickness up to 2.5 mm for laying directly into existing or new matwells.
<b>UPPER</b>	Anti-slip knurled EPDM Rubber or Neoprene, heavy-duty and UV-resistant conforming to DIN 7863.
<b>UNDERNEATH</b>	Base of the mat is mechanically fitted with rubber inserts for anti-slip and noise reduction.
<b>PROFILE COLORS</b>	Material can be in mill finish aluminum or anodized silver, gold or bronze colors with black rubber insert.

# Aluminum-Carpet Profile

## UCFM 16

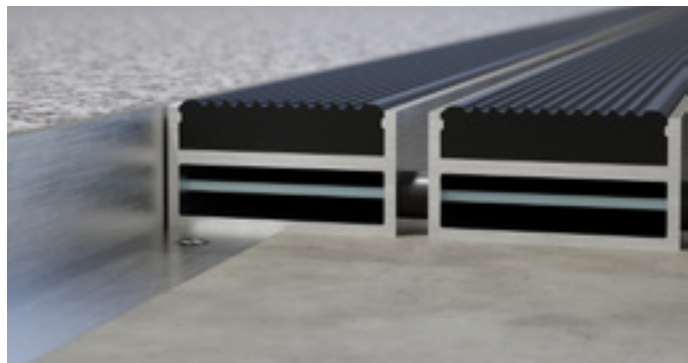
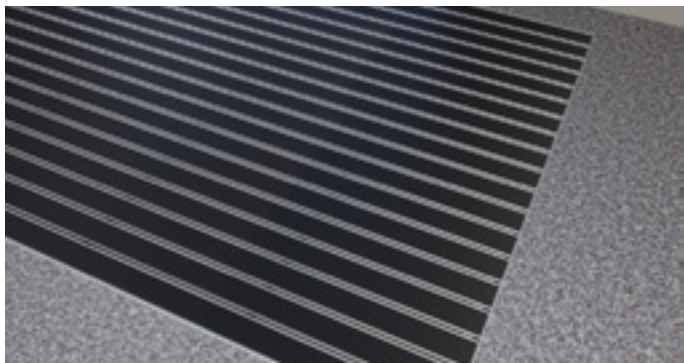


Entrance matting corrosion-resistant version for areas of heavy traffic. It prevents dirt and moisture from entering the building and is available with anti-slip knurled rubber and aluminum. This type reduces noise generated from heavy traffic and is dimensionally stable and easy to clean.

<b>ALUMINIUM PROFILE</b>	Aluminium profile alloy 6063-T6, wall thickness up to 2.5 mm for laying directly into existing or new matwells.
<b>UPPER</b>	Anti slip ribbed carpet insert, UV-resistant heavy-duty conforming to DIN 51130.
<b>UNDERNEATH</b>	Base of the mat is mechanically fitted with shock absorbing neoprene cushion pads for anti slip and noise reduction.
<b>PROFILE COLORS</b>	Material can be in mill finish aluminum or anodized silver, gold or bronze colors with a variety of colors for carpet inserts.

# Aluminum-Rubber High Profile

## URFM 24

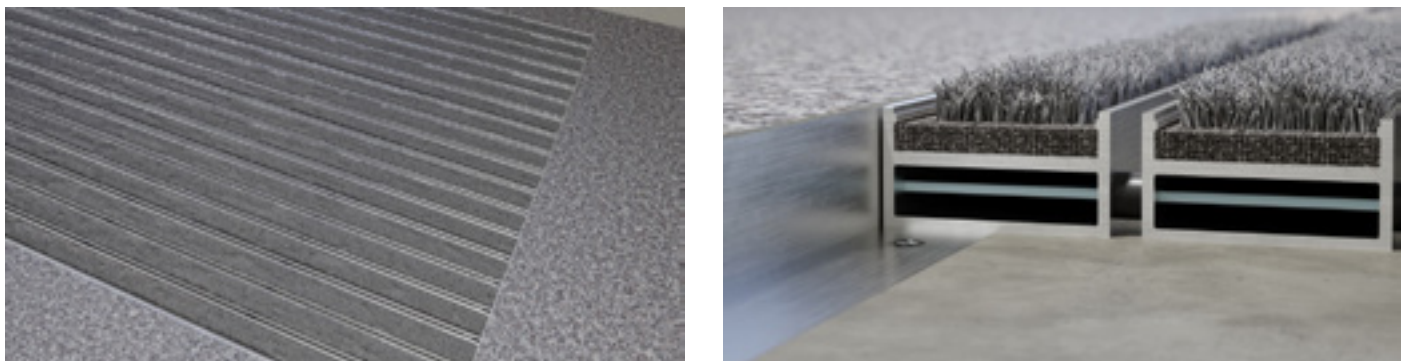


High Profile entrance matting corrosion-resistant version with Neoprene or EPDM rubber inserts can be used for outside as well as inside areas with normal to heavy traffic. It prevents dirt and moisture from entering the building and is layed on a shock absorbing damping foam. This type reduces noise generated from heavy traffic and is greatly capable of collecting dirt. The panels are connected to each other through a stainless steel wire.

<b>ALUMINIUM PROFILE</b>	Aluminium profile alloy 6063-T6, wall thickness up to 2.5 mm for laying directly into existing or new matwells.
<b>UPPER</b>	Anti-slip knurled EPDM Rubber or Neoprene, heavy-duty and UV-resistant conforming to DIN 7863.
<b>UNDERNEATH</b>	Base of the mat is mechanically fitted with shock absorbing damping foam. panels are connected with stainless steel wire.
<b>PROFILE COLORS</b>	Material can be in mill finish aluminum or anodized silver, gold or bronze colors with black rubber insert.

# Aluminum-Carpet High Profile

## UCFM 24

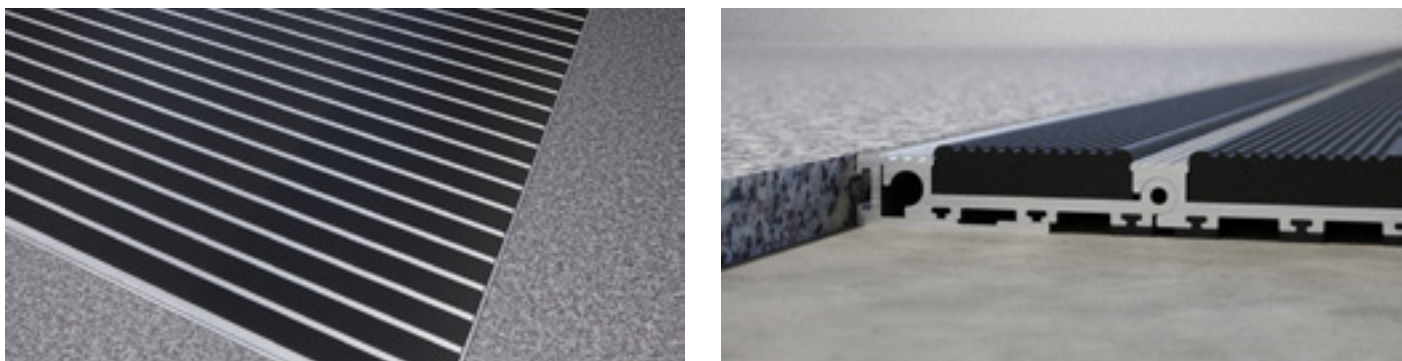


High Profile entrance matting corrosion-resistant version can be used for outside as well as inside areas with normal to heavy traffic. It prevents dirt and moisture from entering the building and is layed on a shock absorbing damping foam. This type reduces noise generated from heavy traffic and is greatly capable of collecting dirt. The panels are connected to each other through a stainless steel wire.

ALUMINIUM PROFILE	Aluminium profile alloy 6063-T6, wall thickness up to 2.5 mm for laying directly into existing or new matwells.
UPPER	Anti slip ribbed carpet insert, UV-resistant heavy-duty conforming to DIN 51130.
UNDERNEATH	Base of the mat is mechanically fitted with shock absorbing damping foam. panels are connected with stainless steel wire.
PROFILE COLORS	Material can be in mill finish aluminum or anodized silver, gold or bronze colors with a variety of colors for carpet inserts.

# Aluminum Profile

## UAFM 17



Corrosion resistant all aluminum matting panel can be used for outside as well as inside areas with normal to heavy traffic. It prevents dirt and moisture from entering the building. Height of profile is 16.5 mm

ALUMINIUM PROFILE	Aluminium profile alloy 6063-T6, wall thickness up to 2.5 mm for laying directly into existing or new matwells.
UPPER	Aluminum strips alloy 6063-T6 attached through connectors. Size of each strip is 47 mm.
UNDERNEATH	Base of the mat is mechanically fitted with shock absorbing neoprene cushion pads for anti slip and noise reduction.
PROFILE COLORS	Material can be in mill finish aluminum or anodized silver, gold or bronze colors.

With over 70 years of experience, Pawling Corporation is the leading manufacturer of high-quality architectural products that will meet your material specifications as well as your design needs. Pawling Corporation pledges to employ all its resources to focus on customer satisfaction and continual improvement. We strive to provide superior quality products and services that meet or exceed customer expectations. We want to be the first choice for architects, general contractors and sourcing managers on all projects where impact protection is needed.

Pawling's line of Pro -Tek 8 Entrance Mats and Gratings offers a wide variety of options for a multitude of applications. A properly designed system plays a vital role in providing a safe, clean and attractive entryway and interior environment.

With a variety of colors, frame materials, and layout options to choose from , Pro-Tech\* Entrance Mats and Gratings can meet the needs of all commercial, industrial and institutional facilities.

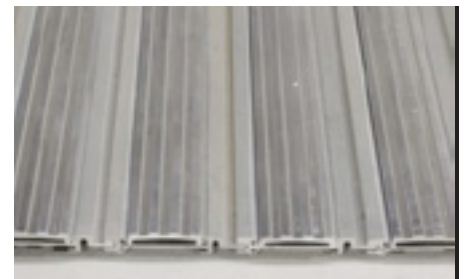


## ROL-DEK® SERIES

Protecting your building from moisture and debris starts with Pawling's complete line of custom Pro-Tech® entrance mats like our Rol-Dek® Series. You can achieve a sleek, architectural look with a quality product that rolls up quickly for easy maintenance and cleaning. In three popular styles, the Rol-Dek® Series provides protection in moderate to heavy traffic areas and may be used in both recessed and surface applications.

### All Rol-Dek® entrance mats feature

- Easy to clean-rolls back 180°
- Six different tread insert options create multiple combinations of colors and functions
- Custom fabrication, including angles, arcs/radii, and cutouts
- Continuous resilient vinyl cushion reduces clatter
- Optional square nosing for on-site trimming
- Optional beveled nosing for surface applications
- Rolling load test to 350 lbs./wheel
- EM-650/EM-800 fabricated from at least 70% recycled aluminum



## DRAIN-WELL® SERIES

Make a statement at your entrance with our heavy-duty Drain-Well® entrance mats. With three options to choose from, you're sure to find the one that meets your needs. Trapping grime is easier with our Drain-Well® Series - moisture and dirt scrapes off shoes and gets trapped beneath the surface. Available in four aluminum finishes, our Drain-Well® gratings will give you the aesthetic look you want with the entrance protection your building needs.

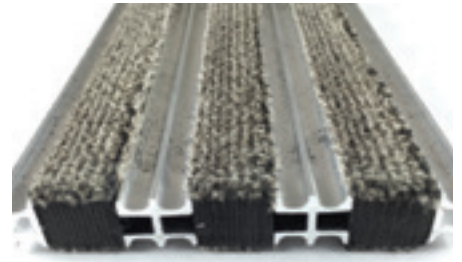
### All Drain-Well® entrance mats feature

- Six different tread insert options for multiple combinations of colors and functions
- Custom fabrications for specific needs such as arcs and patterns
- Continuous resilient vinyl cushion reduces clatter
- Standard level bed frame systems (RG-500/600 feature optional deep pit frame systems)
- Fabricated from at least 70% recycled aluminum



# DRAIN-WELL® SERIES EM-70

Keep your facility clean and safe with our recycled rubber entrance mat. Our EM-70 Tire Mat series of entrance mats feature recycled rubber from airplane tires. These rubber strips have woven nylon fibers for maximum absorption. Identical on top or bottom, the EM-70 can be flipped over for double the product life.



## HEAVY-DUTY RUBBER ENTRANCE MATS

Pawling's Heavy-Duty Rubber Entrance Mats are designed to trap debris and minimize soil tracked into your building. Our heavy-duty rubber entrance mats feature excellent coverage for both interior and exterior high-traffic areas with slip resistance that exceeds ADA recommendations.

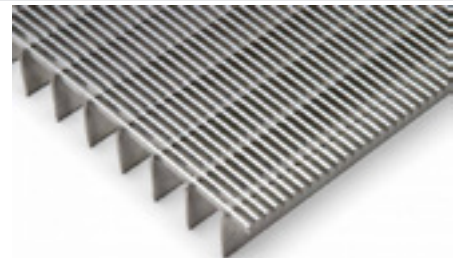


## METAL GRATINGS

Our Pro-Tech® metal entrance gratings combine the beauty of metal with the exceptional strength of grid systems that are designed to stand up to the toughest traffic. Use in conjunction with our Moxi-Tuft long Wear Carpet Matting to brush and remove moisture while providing a dramatic look for your entryway. With their smooth rollover capability, metal gratings such as our RG-200 are also excellent for applications involving wheelchairs or gurneys. Our metal gratings are well suited for both interior and exterior applications and are designed with a sculpted shape to increase slip resistance and provide a walking surface that will remove debris as it is carried in to the building by foot traffic. The completed assembly provides openings between tread rails to allow dirt and debris to be captured and keep the interior of your building safe and clean.

### All styles feature:

- Clean architectural lines for an elegant, high-tech appearance
- Safe, heel-proof design
- All-weather durability and easy cleaning
- Gratings can be temporarily removed for thorough cleaning
- Excellent choice for applications involving wheeled equipment



## CUSTOM LOGO MATS

This economical, jet dye printed nylon mat, has a washable nitrile rubber backing. Using a 4 color dye printing process, Quadra print can create almost any color and image that you require.



# HEAVY DUTY CARPETS

Bring an upscale appearance to high-abuse or high-traffic areas with Pawling's Pro-Tek® Heavy-Duty Carpets. With a durable, rugged blend of heather fiber that provides excellent resistance to fading and UV light degradation, our heavy-duty carpets are perfect for interior and exterior applications. High traffic locations such as fitness clubs, country clubs, hotels and other lobby entrances will benefit from the non-woven needle-punched construction that makes Pawling's carpet more durable than conventional commercial carpet. Our Berber and Protector carpet lines offer attached vinyl beveled nosing for surface applications.

## All of Pawling's Berber Protector and Jaguar carpets feature:

- A wide variety of colors to complement any decor
- Custom sizing
- Coarse fibers that effectively trap soil and debris
- Easy to clean durability
- Fiberbond construction that allows for factory or on-site custom cutting without unraveling
- Non-woven needle-punch construction
- DOC FF-1-70 & FF-2-70 flammability ratings
- Nonskid composite rubber backing



# VINYL BACKED MATS

Bring an upscale appearance to high-abuse or high-traffic areas with Pawling's Pro-Tek® Heavy-Duty Carpets. With a durable, rugged blend of heather fiber that provides excellent resistance to fading and UV light degradation, our heavy-duty carpets are perfect for interior and exterior applications. High traffic locations such as fitness clubs, country clubs, hotels and other lobby entrances will benefit from the non-woven needle-punched construction that makes Pawling's carpet more durable than conventional commercial carpet.

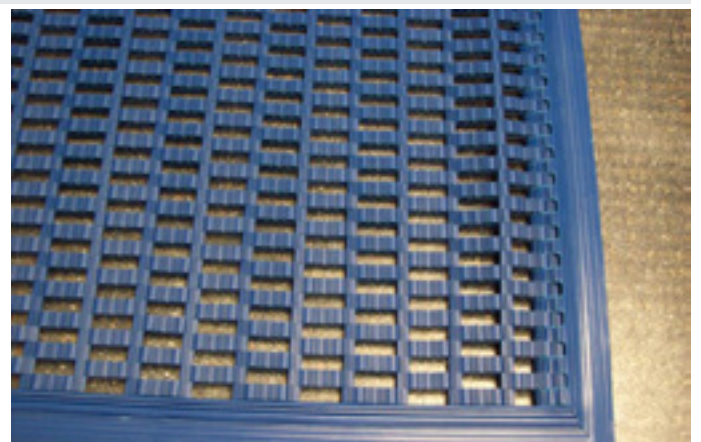


# VINYL ENTRANCE MATS

Pawling's Pro-Tek® vinyl entrance mats combine performance and style to suit any entry requirements. The IM-100 and IM-400 both feature sale, heel-proof drainage holes for a comfortable and slip-resistant entry surface. Exceeds the ADA recommended standards for slip resistance in wet and dry areas (0.67 Dry and 0.89 Wet per ASTM D-2047).



Make an impression with customers by showing your company logo on a Parco-Link vinyl mat at your entrance. With tiny openings between the links, these mats feature flexible wiper blades to clean debris and scrape and squeegee shoes clean. LM-100 features a closed weave making it heel proof. Exceeds the ADA recommended standards for slip resistance in wet and dry areas (0.67 Dry and 0.89 Wet per ASTM D-2047).

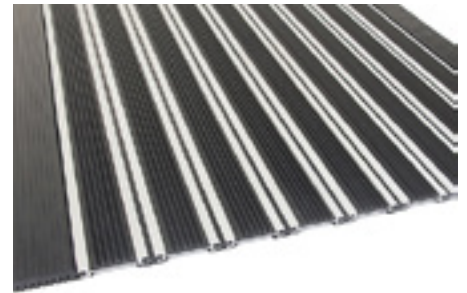


Make an impression with our open weave vinyl mat at your entrance. With tiny openings between the links, these mats feature flexible wiper blades to clean debris and scrape and squeegee shoes clean. LM-400 features an open weave allowing for greater amounts of dirt to be captured. Exceeds the ADA recommended standards for slip resistance in wet and dry areas (0.67 Dry and 0.89 Wet per ASTM D-2047).

Prospec Specialties have a wide range of entrance mats, commercial door mats, entrance grates, entrance grills, commercial floor mats, aluminum floor mats, all designed to meet your specific needs. Our durable and attractive products offer versatile design options for interior and exterior applications. People entering a building carry into premises dirt and moisture through their footwear, not only does this make interiors dirty and un-hygienic it further spoils the floor coverings and causes them to wear faster, creating a need for premature replacement.

## HEAVY PEDESTRIAN TRAFFIC

Heavy Pedestrian Traffic Mats are highly economical and tough foot grille available in both closed and open construction, roll-able, silent and sustainable. Heavy pedestrian mats includes Entrance mats, commercial door mats etc. Heavy pedestrian traffic mats are Rollet, RolletUltra, RolletSuper, Interceptor, ProClean, Mudguard, DirtFighter, StreetFighter, StreetKing, Cleanex, CleanexUltra, classicGrate, SuperGrate, UltraGrate and Stelica.



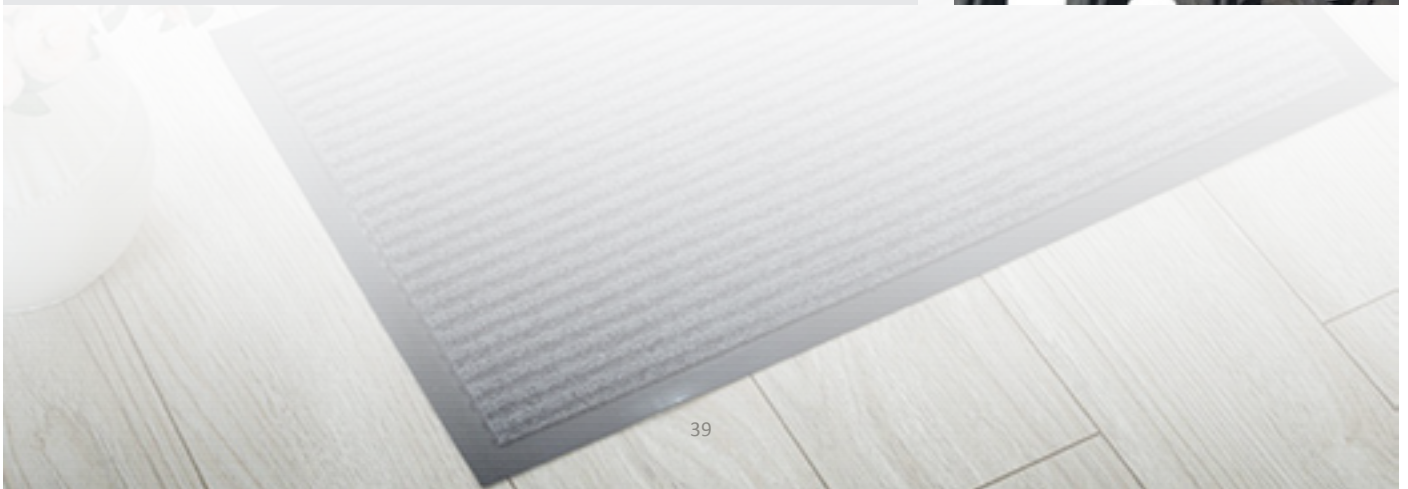
## MEDIUM PEDESTRIAN TRAFFIC

Medium Pedestrian Traffic mats are highly recommended by interior designers. Mostly they are used in Boutique, Hotels, Resorts, Showrooms, Luxury Villas / Apartments, golf Courses etc. Medium Pedestrian consists Cocomat, Scrape-N-Dry, Scrub, Strong, Sturdy and Runner.



## SAFETY AND COMFORT

In safety and comfort section we mainly have octamat, quarta mat and ultra brushes. octa and quarta mats are heavy duty, slip resistance rubber matting with an open cellular construction for heavy traffic areas. Ultra brushes are addition to octamat system. By fitting the round brushed into every second hole greatly improve cleaning properties are achieved. Ultra brushes are available in black, red, green, brown, yellow, blue and grey colors.





# ARCHITECTURAL EXPANSION JOINT SYSTEMS

MIGUA is one of Europe's leading experts in the design, manufacture and installation of expansion joint systems. MIGUA expansion joint systems serve to cover, close and seal expansion joints. Our products satisfy the most rigorous standards in quality and safety and are widely used in large-scale construction projects such as airports, train stations, industrial plants, parking structures shopping centers and hospitals. Every day, our experienced team do their utmost to ensure that our outstanding product quality and innovative approach make your building project successful. We are not satisfied until you are satisfied. Because our guiding principle is:  
**MIGUA – you first.**

With six brands and a total of over 600 proven expansion joint systems, we've got the diverse structural needs of today's construction projects covered. We confront problems such as heavy traffic loads and meet exacting standards in water resistance or hygiene. Floors, walls or roofs, MIGUA offers the perfect solution for any surface. Products of the highest quality are fundamental to our business; yet our ultimate priority is always customer satisfaction.



## MIGUTEC

JOINT COVERS FOR  
EXPANSION JOINTS

## MIGUTAN

WATERTIGHT EXPANSION  
JOINT SOLUTIONS

## MIGUMAX

SEISMIC RESISTANT  
EXPANSION JOINT SOLUTIONS

## MIGUTRANS

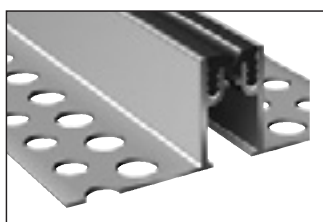
HEAVY DUTY ALL-METAL  
EXPANSION JOINT SOLUTIONS  
FOR LARGE TRAFFIC LOADS

## MIGUPREN

EXPANSION JOINT STRIPS TO SEAL JOINTS  
WITH THREE-DIMENSIONAL MOVEMENT

Our MIGUTEC range covers a wide selection of joint covers for simple applications which also have high architectural requirements. We have divided our MIGUTEC catalogue in application areas to make it easier for you to find what you are looking for. Our floor expansion joint covers are available with a variety of inserts and in various standard colors. On request, we will manufacture a special color according to your requirements. Brackets are made from a high-quality aluminium alloy in order to offer you a durable expansion joint cover even with low wall thicknesses. In addition, some of our joint covers also have stainless steel brackets in order offering a solution suitable for use where they may be subject to aggressive media loads. Smooth inserts are suitable covers for the hygienic areas in hospitals, kitchens and swimming pools. For the purpose of refurbishment, renovation and modernization, the MIGUTEC range also contains expansion joint covers suitable for retrofitting.

## EXPANSION JOINTS ACCORDING TO AREAS OF APPLICATION



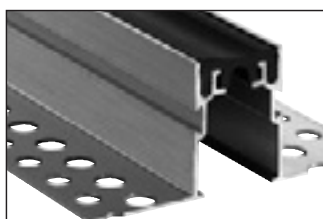
### Expansion joint covers for floors

Aluminium brackets in conjunction with an elastic insert made of quality Synca. Inserts are available in many colors and types. The inserts are optimized for connection to carpet or plastic surfaces. Some of the expansion joint covers are available with stainless steel or brass caps. This type of joint is frequently used in screed in combination with tiles and various coverings such as a carpet or plastic flooring.



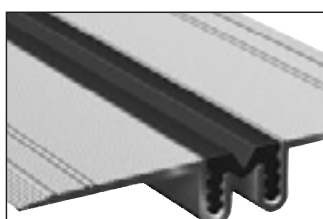
### Expansion joint covers for aggressive media

Stainless steel brackets made from various alloys (1.4301 and 1.4541), for various loads, combined with inserts for various movements thus ensuring good durability with regard to aggressive media. We would be happy to examine the suitability for your needs based on the type and concentration of the media used.



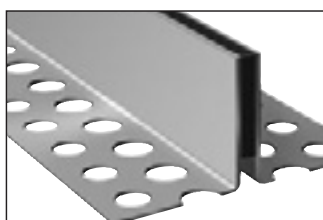
### Expansion joint covers for hygienic areas

Various smooth inserts in combination with a variety of different brackets made from aluminium or stainless steel. The smooth inserts have been designed specifically for hygienic areas in hospitals, kitchens and swimming pools and are both anti-bacterial and physiologically safe.



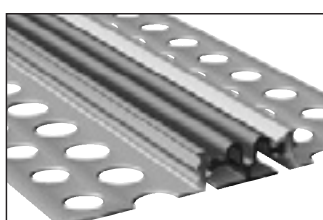
### Expansion joint covers for refurbishment, renovation and modernization

Brackets for affixing to the surface, for subsequent installation, form the basis for this area of use. Inserts made from quality Synca. Inserts are available in many colors and types. Some expansion joint cover types are also available with inserts for connection to carpet or plastic floorings.



### Expansion joint covers for field limitations/control joints

In order to counteract tension in the upper floor, it is necessary to divide the floor into fields. Field limitations/shrinkage joints can be used to reduce these tensions. MIGUA offers expansion joint covers constructions designed specifically for this application. They meet both the optical and functional requirements of the task.

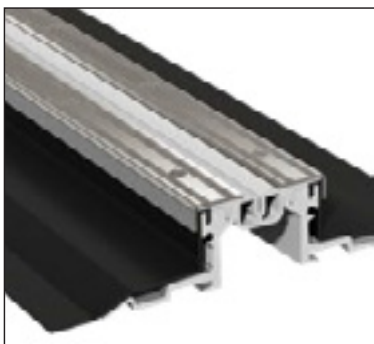


### Wall and ceiling joints

MIGUA expansion joint covers for walls and ceilings include a variety of different covers for areas with plaster, tiles, dry-wall, cement, suspended ceilings and facades. Some of the covers are made up of aluminium brackets with elastic inserts. In addition, MIGUA also offers further joints with metal, plastic or Synca covers.

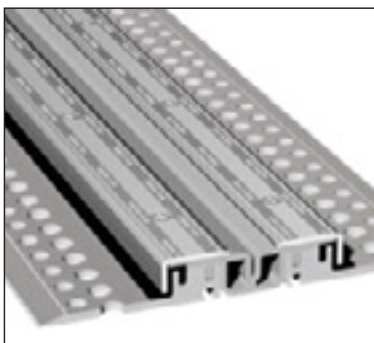
Well-considered, extremely durable, sealed and robust expansion joint constructions are required. The variety of physical construction requirements also makes individual constructive solutions necessary, in part with very different executions. One thing that all MIGUTAN expansion joint constructions have in common is the special technology which enables exchangeable centre seals and seal at the level of the upper edge of the finished floor. In the construction branch, MIGUTAN is considered one of the technology leaders in Europe when it comes to the particularly demanding water-tight expansion joint constructions. MIGUTAN offers planners and architects a tried and tested series of products with an especially wide range of applications. Enhanced by a comprehensive, well-thought-out system of expansion joint cover connections and intersections, MIGUTAN offers a safe solution for every application.

## EXPANSION JOINTS ACCORDING TO AREAS OF APPLICATION



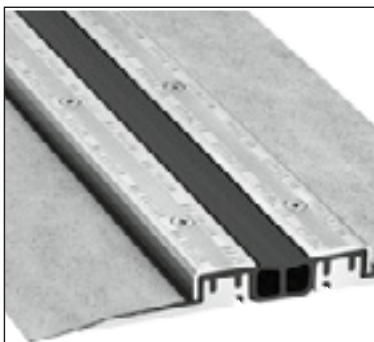
### Expansion joints for bituminous seals (long ASS sheets)

Characteristic for these products are the long ASS sheets for the best-possible adhesion connection to the area seal. Upper seal insert, non-slip Stainless steels caps and extremely durable aluminium brackets are additional characteristic properties of our MIGUTAN systems.



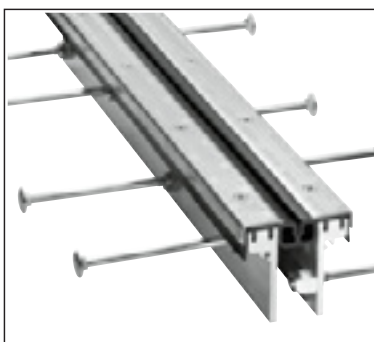
### Expansion joints for coating systems (short ASS sheets)

Characteristic for these products are the long ASS sheets for the best-possible adhesion connection to the area seal. Upper seal insert, non-slip Stainless steels caps and extremely durable aluminium brackets are additional characteristic properties of our MIGUTAN systems.



### Expansion joints for alternative seals (MIGUTRIX foils – XA)

With this innovative MIGUTAN technology for liquid seals, fleece concealed ASS sheets ensure optimum attachment to a surface seal located under tiles. In conjunction with 3 different smooth seal inserts for hygienic requirements, anti-bacterial and physiologically safe. Particularly well-suited to swimming pool use in conjunction with special caps.



### Expansion joints for installation in concrete (Anchor rods/loop anchors)

Expansion joint constructions with rod or loop anchors for particularly strong and flush installation in concrete ceilings with coatings. Sliding rod or loop anchors for variable welding options with reinforcing steel enable the greatest of flexibility and simple assembly. Suitable for a wide variety of loads thanks to the use of rod or loop anchors.

# Seismic Resistant expansion Joint Solutions

Expansion joint profiles are mostly made of aluminum or steel, either solid metal or assembled together with rubber inserts or gaskets in rubber. They are designed to accommodate the large movements of a construction, including settlement and, sometimes seismic deflections. Movements may be caused by temperature and drying shrinkage, the supporting substrate, winds forcing the structure to sway or earthquake activity beneath the structure.

## EXPANSION JOINTS ACCORDING TO AREAS OF APPLICATION



### Floor expansion joint systems (Floor)

Migua seismic floor expansion joints systems are especially designed to cope with large movements typical for earthquakes. At the same time, they accommodate day- and nighttime as well as seasonally conditioned thermal movements. Migua seismic expansion joint covers are characterized by their aesthetic design and ensure a maximum of comfort. Not least, they are cost-efficient due to their high quality, easy installation and longevity.



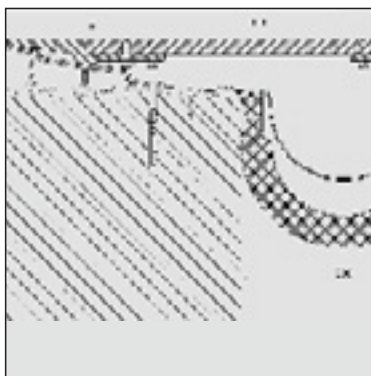
### Wall expansion joint systems (Wall)

Migua seismic wall expansion joint systems are made to exceed even the highest demands. The design provides for a seamless transition from floor to wall expansion joints that ensures a harmonious architectonic impression. The most innovative product in this range is the WSP that can be tailor-made to perfectly to suit your individual needs.



### Roof expansion joint systems (Roof)

MIGUA offers three tried and tested product lines for this application. MIGUA offers the most comprehensive range for this particular sector including a range of different planning parameters. The key criteria are pronounced movement abilities, wear-resistance and durability under load and are effectively met by these profile constructions thanks to the individually adapted joint technologies.



### Fire barrier, fire protection (Miscellaneous)

In addition to MIGUMAX expansion joint cover range, we offer professional accessories such as firebarriers, sealing foils and many more. Due to the vast variety of solutions on offer, we have chosen to show some examples only. In case you are in search of individual solutions, we are only to pleased to be of help.

# Heavy Duty All-Metal Expansion Joint Solutions for Large Traffic Loads

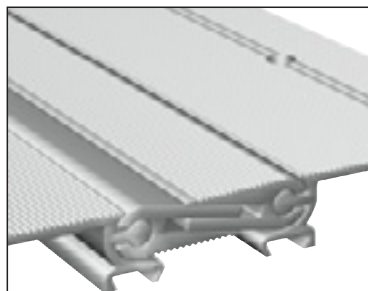
MIGUTRANS from MIGUA offers planners and architects a wide range of wear-resistant, maintenance free and long-lasting expansion joint constructions for demanding construction projects. A user-oriented, high-quality and internationally tried and tested range of expansion joints which meet the varying functional and aesthetic requirements of innovative architecture.

## EXPANSION JOINTS ACCORDING TO AREAS OF APPLICATION



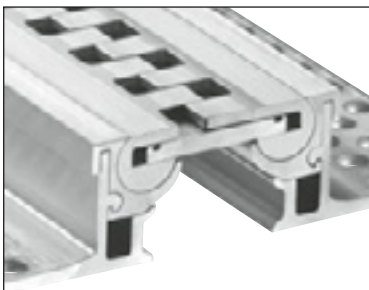
### FS – Joints for high load requirements

MIGUA offers three tried and tested product lines for this application. MIGUA offers the most comprehensive range for this particular sector including a range of different planning parameters. The key criteria are pronounced movement abilities, wear-resistance and durability under load and are effectively met by these profile constructions thanks to the individually adapted joint technologies.



### FSN – Joints for subsequent installation

MIGUA FSN joint constructions have upper brackets and are thus ideal for subsequent installation, particularly in renovation and modernization projects. The highly developed joint constructions enable three-dimension movements to be absorbed and ensure maximum functionality even under difficult conditions. Structured surfaces and gap-free visual surfaces ensure high traffic safety.



### FS/FSS – Joints for vibration-free driving

The solid full aluminium expansion joint constructions FS/FSS meet this requirement in a particularly maintenance-free, wear-resistant and durable way. Fully move-able (FS 100) or with two-dimensional absorption of movement (FSS) they carry high traffic loads e.g. trucks or forklifts and are thus ideally suited to production and warehousing facilities.



### STS – Joints for maximum load requirements

With the STS line of products, MIGUA offers a range of aluminium/steel/stainless steel constructions for the highest of traffic loads imposed by forklifts, heavy-duty trucks or special vehicles. A particular criterion of this product line is the full vibration-free driving which effectively prevents damage to the building structure and vehicles. The extremely robust constructions also absorb horizontal movement reliably both across and parallel to the joint.



### STW – Joints for maximum load requirements (watertight)

STW aluminium/steel/ stainless steel constructions offer the same properties as STS – but with additional seal inserts. This enables the entire construction/ joint construction to be made watertight (in conjunction with the appropriate connection joint). Vibration-free driving and reliable horizontal absorption of movement are also ensured with these joint covers: durably, maintenance- free and, just like the STS, with full dismantling and reversing options.

MIGUA is one of Europe's leading experts in the design, manufacture and installation of expansion joint systems. MIGUA expansion joint systems serve to cover, close and seal expansion joints. Our products satisfy the most rigorous standards in quality and safety and are widely used in large-scale construction projects such as airports, train stations, industrial plants, park buildings, shopping centres and hospitals. Every day, our experienced teams do their utmost to ensure that our outstanding product quality and innovative approach make your building project successful. We are not satisfied until you are satisfied. Because our guiding principle is: MIGUA – you first.

## FlamLINE

SEALING STRIPS FOR FLAT ROOFS



MIGUPREN FlamLINE consists of the elastic material Butyl-Elastomer.

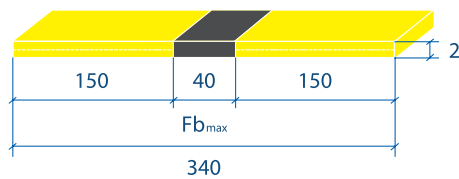
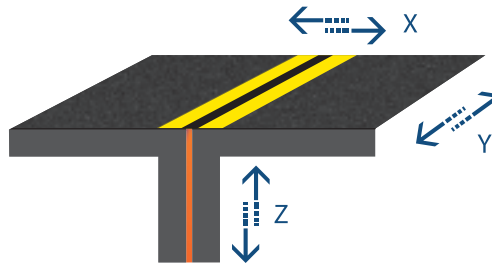
- Excellent resilience against Ozon
- Very high long-term heat resistance ( up to  $+90^{\circ}\text{C}$  )
- Very high flexibility at low temperatures ( up to  $-40^{\circ}\text{C}$  )
- General Building Authority Test Certificate (AbP) available for pressurized water up to 0.5 bar (equates to 5 m water column)

### Overall resilience against chemicals:

- Very good against alkali, diluted acids and saline solutions
- Excellent against vapor
- Very good resilience against polar solvents like alcohol and ketone

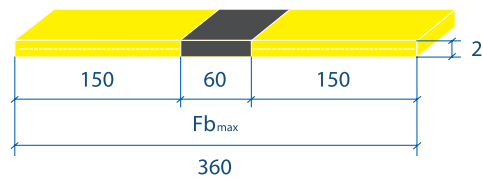


Testing	Unit	Test Standard	Test value FlamLINE
Density	g / cm <sup>3</sup>	EN ISO 1183-1	1,47–1,51
Elongation	N /mm <sup>2</sup>	53504	> 4
Ultimate elongation	%	53504	> 600
Tear resistance	N/mm	ISO 34-1	> 8
Fire behaviour		EN 13501-1	Material class E



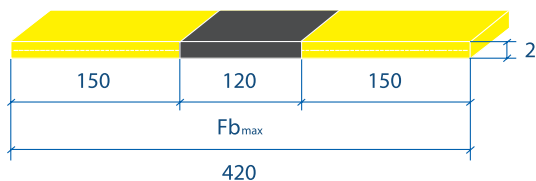
### MIGUPREN FlamLINE 20

X Joint lateral oscillation max.  $\pm 20$  mm  
Y Joint lengthwise movement max.  $\pm 10$  mm  
Z Joint vertical wise movement max.  $\pm 15$  mm  
Weight approx. 1.10 kg/m



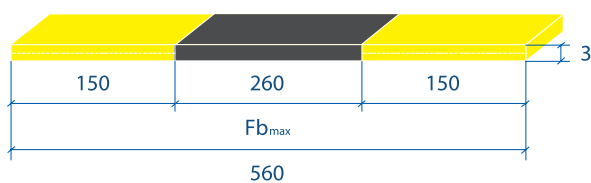
### MIGUPREN FlamLINE 40

X Joint lateral oscillation max.  $\pm 40$  mm  
Y Joint lengthwise movement max.  $\pm 20$  mm  
Z Joint vertical wise movement max.  $\pm 30$  mm  
Weight approx. 1.20 kg/m



### MIGUPREN FlamLINE 100

X Joint lateral oscillation max.  $\pm 100$  mm  
Y Joint lengthwise movement max.  $\pm 50$  mm  
Z Joint vertical wise movement max.  $\pm 75$  mm  
Weight approx. 1.40 kg/m

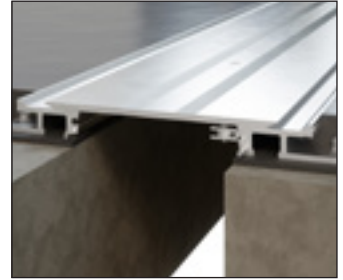


### MIGUPREN FlamLINE 240 G

X Joint lateral oscillation max.  $\pm 240$  mm  
Y Joint lengthwise movement max.  $\pm 120$  mm  
Z Joint vertical wise movement max.  $\pm 180$  mm  
Weight approx. 2.60 kg/m

Nexus Expansion Joint Solutions offer a comprehensive ranges of durable Expansion Joint Solutions for a wide array of applications including commercial centres, shopping malls, railway stations, airports, shopping centers, bridges, schools, hospitals, and several other areas of application. Our range of Expansion Joint Solutions are designed to safely absorb the heat-induced expansion and contraction of concrete slabs, to absorb vibration, and to allow movement due to ground settlement or earthquakes. Our variety of expansion joints includes profiles for walls and floor, for pedestrian as well as heavy loads traffic, for seismic movements, and several other uses. Nexus Expansion Joint Solutions include aluminum profiles, rubber profiles, and a combination of aluminum profiles with rubber inserts.

Nexus Expansion Joint Solutions, designed to conceal areas of structural movement. Concrete Slabs are designed to move due of pressures from long-term shrinkage, thermal expansion, contraction of the structure and seismic activity. Our floor expansion joint systems are suitable for applications with joint openings of several width, and up to 400 mm. Our Expansion Joint Solutions require minimum maintenance works throughout the year.



## Selection Criteria for Expansion Joint Solutions Movement

When designing the building, there are three main types of movement to consider: thermal, seismic and wind sway.

- **Thermal:**

Changes in temperature cause buildings to expand and contract which can leave broken flooring components resulting in damage to the building structure and design.

- **Seismic:**

Earthquakes and seismic events cause movement and swaying for the architectural structure. Larger joint widths are suitable for buildings that are located in seismic zones.

- **Wind Sway:**

Tall buildings and structures with a large surface area are affected by wind sway that pushes against the building and causes tilt or swaying motions. Expansion Joints plays a vital role in safeguarding these buildings by permitting the structure to absorb these movements.

## Loading requirements

Pedestrian, Assorted and Solid Heavy Duty Expansion Joint Solutions are designations as they relate to load ratings. It is a guideline that assists in choosing a proper profile for the specified application a preliminary product selection for a given application.

- **Pedestrian Profiles:**

Used in common applications where pedestrian traffic, rubber-wheeled traffic and light-weight cleaning equipment exists.

- **Assorted Profiles:**

These profiles suggest applications which is subject to mixed loads from Pedestrian to relatively light weighted vehicular loads such as motorcycles, light weight internal use electric cars, light duty forklifts, motorized cleaning equipment and vehicles of akin loads. The systems in this category are comprised of heavier aluminum extrusions, with thicker walled extruded rubber inserts.

- **Solid Heavy Duty Profiles:**

Solid Heavy Duty Expansion Joint Solutions for applications where truly heavy loads, such as vehicles, forklifts, Pickups and high-point loads are the norm. These heavy-duty profiles are capable of handling loads of up to 7 tons. They are capable of multi-directional movements and are also available in surface or block out mounted variations.



## EXPANSION JOINTS ACCORDING TO AREAS OF APPLICATION



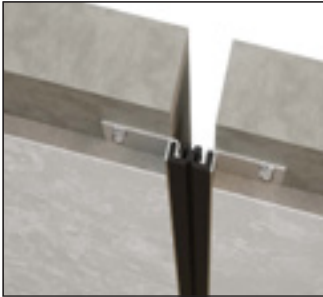
### Expansion joint Floor to Floor System

Nexus floor Expansion Joint Solutions are planned for concrete expansion of various widths to integrate impeccably and ensure a smooth passage for pedestrians, vehicles and equipment. Our Expansion Joint Solutions accommodate all types of building movement, including building settlement for new to existing structures, seismic movement for earthquake areas, and thermal movement as well.



### Expansion joint Floor to Wall System

Our floor to wall Expansion Joint Solutions are designed to suit a variety of applications to integrate within floor and ceiling ensuring a smooth finish and an adequate movement for concrete structures including every-day thermal movement.



### Expansion joint Wall to Wall System

Wall to Wall Expansion Joint Solutions for different applications and various gap widths. Our product options include profiles of aluminum and EPDM rubber, suitable for new to existing structures, seismic movement, and every-day thermal movement.



### Expansion joint Floor to Floor & Wall to Wall System

Our floor to floor and wall to wall Expansion Joint Solutions provide a continuity for all structures with a unique design that fits a wide variety of applications, thus integrating with flooring materials as well as wall fit out.



### Expansion joint Wall to Corner System

Nexus wall to corner Expansion Joint Solutions are designed for a wide variety of applications and ensure a smooth connection of two walls at the edge of a corner. Our range includes profiles of aluminum brushed surface as well as profiles with rubber inserts.



### Expansion joint Watertight Profile System

Waterproofing membrane system that encapsulates Expansion joints in floors and roofs

As a building expansion joints manufacturer, we have developed a know-how recognized by all professionals: architects, engineers, consultants, general contractors and subcontractors. We design, manufacture and market a full range of standard and seismic expansion joints: joint covers, expansion joints, control joints, firestop systems, stair nosings, etc.

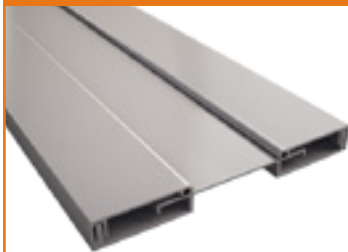
## WALL AND CEILING EXPANSION JOINTS

This full range of structural expansion joints for use in facades, walls and ceilings offers a solution for each configuration: inside or outside installation, standard or seismic expansion joint. All our expansion joints for walls, facades and ceiling are compatible with our firestop systems.

### • Wall and Facade:

Vertical expansion joint for facades, walls and ceilings, comprising aluminium side sections.

#### JDV 4.02: Wall and ceiling expansion joints



##### DESCRIPTION

All-aluminium vertical expansion joint for façades, comprising pre-drilled aluminium side sections and an interchangeable section in the centre, able to take up large multidirectional movements. A waterproof membrane is available to ensure protection against the elements. Specially suitable for quality finish requirements and for wide joints with large seismic movements.

**MATERIAL:** ALUMINIUM

**Color:** NATURAL - RAL Colors

**VERSION:** FLAT & ANGLE

- Seismic expansion joint
- Vertical installation on facade, wall and ceiling
- For joint gaps from 50 to 200 mm

### • Ceilings and suspended ceilings:

The ceiling expansion joints are also adapted for suspended ceilings. These ceiling expansion joints are all earthquake-resistant and are compatible with our firestop systems.

#### JDV 4.12: Wall and ceiling expansion joints



##### DESCRIPTION

All metal seismic expansion joint for ceilings. Flat and angle models are available.

**MATERIAL:** ALUMINIUM

**Color:** NATURAL - RAL Colors

**VERSION:** FLAT & ANGLE

- Expansion joint special wide seismic movements
- Vertical installation on facade, wall and ceiling
- For joint gaps from 50 to 200 mm

## FLOOR EXPANSION JOINTS WITH FLEXIBLE INSERT

VEDA France offers a full range of floor expansion joint products, all-metal or with flexible inserts, for both light use and heavy duty expansion joint applications. Our floor expansion joint systems come in various sizes to suit gaps from 50mm to 200mm. The heavy duty expansion joint systems in our range are suitable for installation in car parks and similar settings, and our floor expansion joint range also includes seismic and watertight floor expansion joint systems.

### • Installation on Finished Floor:

#### JDH 5.26: Installation on finished floor



##### DESCRIPTION

Surface mounted floor expansion joint profile for interior or exterior. Made of drilled and countersunk reinforced aluminium side plates associated with a hot weldable flexible insert. Specially adapted for installation on finished floor.

**MATERIAL:** ALUMINIUM - NITRILE

**Color:** BLACK - GREY

- Surface mounted floor expansion joint
- For joint gaps from 20 to 60 mm

### • Installation with Flooring

#### JDH 5.02: Floor expansion joints with flexible insert



##### DESCRIPTION

Floor expansion joint for indoor and outdoor applications, comprising pre-drilled aluminium side angle sections and an interchangeable flexible insert in the centre, able to take up expansion and contraction movements. Suitable for all types of finish: concrete, screed, tiling, etc.

**MATERIAL:** ALUMINIUM - NITRILE

**Color:** BLACK - GREY - RAL Colors

**VERSION:** FLAT & ANGLE

- Standard floor expansion joint
- Available insert : smooth, + 3 mm or + 5 mm
- For joint gaps up to 60 mm



## FLOOR EXPANSION JOINTS ALL METAL

All metal expansion joints for intensive traffic.

### • Installation on Finished Floor:

#### JDH 6.34: Floor expansion joints all metal



##### DESCRIPTION

All aluminium floor expansion joint, surface-mounted, for indoor and outdoor applications. The two aluminium components slide one into the other, which takes up any movement due to expansion and contraction. Suitable for all types of finish: concrete, screed, tiling, etc.

**MATERIAL:** ALUMINIUM

**Color:** NATURAL

**VERSION:** FLAT & ANGLE

- Surface mounted floor expansion joint
- For intensive traffic
- For joint gaps from 35 to 50 mm

### • Installation with Flooring

#### JDH 6.04: Floor expansion joints all metal



##### DESCRIPTION

All-metal floor expansion joint specially designed to withstand extremely heavy loads: load handling equipment, lorries... Suitable for indoor and outdoor applications. The top cover plate with the comb shape and the central support plate can be supplied in hardened steel or in stainless steel, depending on the strength required and the working environment. Suitable for all types of applications: industrial floors, station, airports, shopping centres...

**MATERIAL:** STEEL - STAINLESS STEEL

**Color:** NATURAL

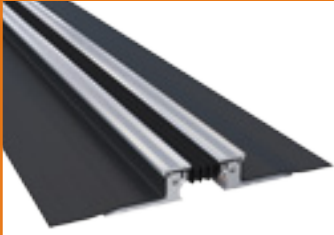
**VERSION:** FLAT

- For intensive heavy-duty traffic
- All types of finishes: concrete, screed, tiles...
- For joint gaps up to 100 mm



## CAR PARK JOINTS

### JDH 5.25: Car park joints



#### DESCRIPTION

Watertight floor expansion joint specially recommended for car parks. Stainless steel or aluminium protection, very good protection, very good resistance to intensive light vehicles traffic. Very resistant to chemicals and petrol.

**MATERIAL:** ALUMINIUM - STAINLESS STEEL - NITRILE

**Color:** BLACK

**SPECIAL PIECES:** X, L oR T

- Expansion joint 100% watertight, especially suitable for car roof
- Stainless steel or aluminium protection

## SEISMIC JOINTS

Seismic & watertight expansion joint for car parks and any other places with or without traffic of slow vehicles.

### JDH 6.16: Floor expansion joints all metal



#### DESCRIPTION

Seismic floor expansion joint for indoor and outdoor applications, comprising two side angle sections and a central element of thick section made of aluminium, able to take up significant expansion and contraction movements, as well as vertical shearing movements. Suitable for all types of finish: concrete, screed, tiling, etc.

**MATERIAL:** ALUMINIUM

**Color:** NATURAL

**VERSION:** FLAT & ANGLE

- Seismic expansion joint
- For wide gaps
- For joint gaps from 110 to 250 mm

### JDH 6.20: Floor expansion joints all metal



#### DESCRIPTION

All-aluminium seismic floor expansion joint for indoor and outdoor applications. The two aluminium inner components slide one into the other, which takes up any movement due to expansion and contraction. Interchangeable upper components made of aluminium, with the option of a nitrile strip for Level Ing. Suitable for all types of finish: concrete, screed, tiling, etc.

**MATERIAL:** ALUMINIUM

**Color:** NATURAL

**VERSION:** FLAT & ANGLE

- Seismic expansion joint
- For wide gaps
- For joint gaps from 110 to 250 mm



# TECHNICAL PROFILE SYSTEMS

## EXPANSION & MOVEMENT JOINT SYSTEMS

Beta Contech manufacture tile movement joints that are used on floors to protect tile edges and to accommodate movements and local stresses. The most common problems for Tile fixings are tile popouts and sealant failure. Using tile joints is a suitable and economic solution to avoid problems related to the fixing of tiles. Sealants are used for the economic viability and easiness in application, and due to their poor load bearing capacity, sealants often fail resulting in cracks and fissures along the line of application. Tile movement joints are the best suited replacement for such situations and suitable for use with ceramic, terrazzo, marble, stone and other similar materials. Beta Contech Movement Joints are manufactured using high quality brass, stainless steel, Aluminum with plates bonded to a neoprene or EPDM rubber inserts. Beta Contech Movement Joints are manufactured in accordance to the following international standards:

Amongst the many factors causing ceramic tiles to move, are significant changes in atmospheric temperature, weight loading, traffic density, rigid attachments such as fixed plant, pillars etc., and thermal and moisture movements in the structural base, background and tiling. Beta Contech Movement Joints create a tile field which moves independently from those around it, and should be included at set distances in floor and wall tiles, in accordance with recommendations from the British Standards Institution (BSI).

The maximum tile field, according to BS 5385, should be no more than ten meters in each direction for floors but in practice, depending on the application and the aesthetic possibilities, it tends to be between five and eight meters on floors, and every three to four-point-five meters for walls. Because there are specific movement joints for specific types of application, most tiling failures are caused by using joints that are not suitable for what is being asked of them. A typical installation should include movement joints within the tiled area itself and on internal corners of walls, along with the floor-to-wall connection. They should also be used at the perimeter of applications of over two meters, or where there is excessive thermal and vibration movement. Installers and specifiers should always refer to the BSI recommendations for specific applications. There are different widths of pre-formed movement joints, and the correct width and material (brass, aluminium, stainless steel and PVC) must be specified to take thermal movement into account, along with traffic density.

If the wrong one is specified the installation is likely to fail. The amount of movement that can be absorbed depends on the size of the joint and the compressible material used. Pre-formed surface joints will usually accommodate movement up to 20% of the movement zone width. Therefore, a 10mm joint will extend and compress by approximately 2mm. Along with the wrong type of joint being specified, other common mistakes include failing to lay a movement joint where the substrate changes.

In renovation work, tilers could find they're having to put one tiled surface over two abutting substrates such as timber and concrete. Because the two substrates will move differently, it's essential to install movement joints immediately above the junction. Another common problem occurs when tiling first-floor bathrooms. A movement joint must be inserted where the floor goes over a structural beam or where there's a supporting wall below. The BSI states that ultimately the specifier is responsible for choosing the right joints and deciding where they'll be positioned. In a nutshell, aluminium is ideal for commercial use, whereas brass and stainless steel are used for heavy commercial and industrial projects such as warehousing, production facilities Malls and airports and where the tiled surface is cleaned by a scrubbing machine, or where there are rolling loads such as pallet trucks and metal-rimmed trolleys. Stainless steel is also ideal where chemicals are used, such as laboratories and food processing plants.



## MATERIAL SPECIFICATIONS

Material	Grade / Alloy	Related Standards
Stainless Steel	(304) / (1.4301) (316) / (1.4404)	BSEN 10088-2:2014 BSEN 10088-2:2014
Aluminium	EN AW-6060 EN AW-6063	BSEN 12020-1:2008 BSEN 12020-2:2008
Brass	Copper Alloys Bronze Alloys CuZn43Pb2Al(CW624N)	BSEN 1652:1998 GOST 15527-2004

## Tile Movement Joint According to Areas of Application



### SFMJ - S

Nexus Tile Joint SFMJ-5 is manufactured using 1.5mm side plates of brass, stainless steel or Aluminum bonded firmly to a rubber insert of 7mm. The side plates range from 15mm onwards to maximum of 100mm in height and can be specially ordered for a greater thickness for heavy duty applications. Rubber inserts are available in 10 standard colors. All profiles are fabricated for a cut length of 2.44 m or any other required length less than 2.44 m.



Model	Joint Depth (D)	Joint Width (S)
SFMJ-S - 10	10 mm	10 mm
SFMJ-S - 15	15 mm	10 mm
SFMJ-S - 20	20 mm	10 mm
SFMJ-S - 25	25 mm	10 mm



### SFMJ - 1L

Nexus Tile Movement Joint SFMJ - 1L is manufactured using one flat side plate on side and a L-plate on the other side bonded to the rubber insert. These profiles are particularly useful for perimeter fixing or an existing finished area. Rubber insert s are available in 10 standard colors. All profiles are fabricated for a cut length of 2.44 m or any other required length less than 2.44 m.



Model	Joint Depth (D)	Joint Width (S)
SFMJ-1L - 10	10 mm	10 mm
SFMJ-1L - 15	15 mm	10 mm
SFMJ-1L - 20	20 mm	10 mm
SFMJ-1L - 25	25 mm	10 mm



### SFMJ - S

Nexus Tile Joint SFMJ-5 is manufactured using 1.5mm side plates of brass, stainless steel or Aluminum bonded firmly to a rubber insert of 7mm. The side plates range from 15mm onwards to maximum of 100mm in height and can be specially ordered for a greater thickness for heavy duty applications. Rubber inserts are available in 10 standard colors. All profiles are fabricated for a cut length of 2.44 m or any other required length less than 2.44 m.



Model	Joint Depth (D)	Joint Width (S)
SFMJ-S - 10	10 mm	10 mm
SFMJ-S - 15	15 mm	10 mm
SFMJ-S - 20	20 mm	10 mm
SFMJ-S - 25	25 mm	10 mm

## NEXUS PVC TILE TRIM PROFILES

A professional finish around windows and external corners with a wide range of PVC Tile Trims from Nexus to cover the edges of tiles. These trims neatly cover the unglazed edges of tiles and corners of floors, walls, staircases, tables, and others comes in a variety and elegant colors to match or contrast with the tiled surfaces.

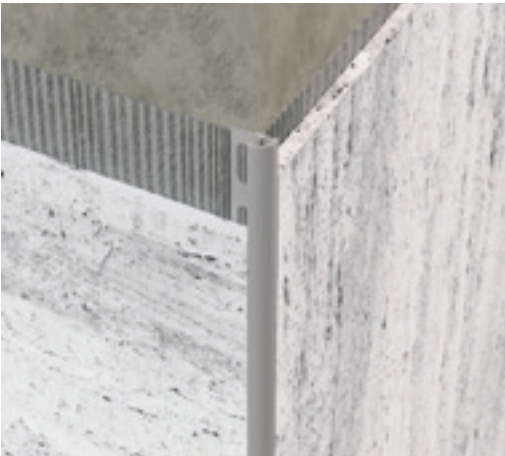
NEXUS PVC Tile Trims give a stylish finish to the tile edges are made from high-quality material for lasting performance in order to give a neat, attractive and protective finish to the tiled edge area.

NEXUS PVC Tile Trims can be applied internally or externally of a building or structure. Nexus PVC Tile Trim is suitable for finishing corners, semi-tiling, worktops, staircases, and to seal exposed edges of tiles.

### NLT

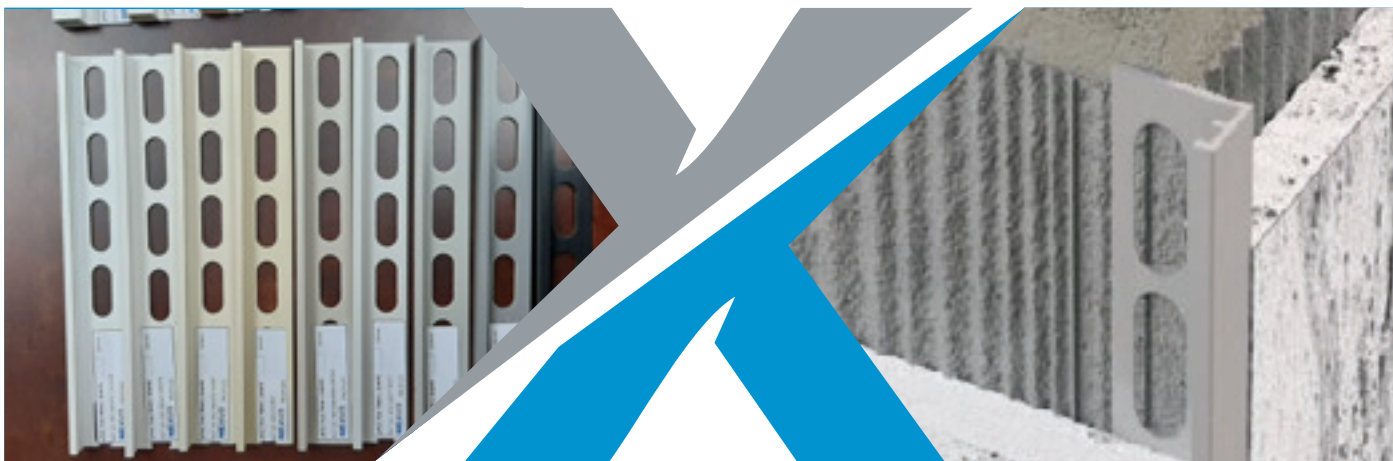


### NRT



### NST





## FEATURES

- Protect the external corners of Ceramic coverings.
- Available in 9 Colours.

## SURFACE

- Smooth uPVC
- Colours:  
White, Milky White,  
White Ivory, Ivory,  
Bahama Beige, Light Grey,  
Grey, Cement Grey, Black.

## MATERIAL

- uPVC with excellent weatherability and high resistance to ageing.

## TECHNICAL INFORMATION

Type	NLT 08
H [mm]	8
L [mm]	2.7
Packing [pcs]	100



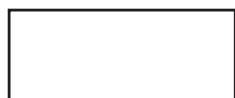
Type	NLT 010
H [mm]	10
L [mm]	2.7
Packing [pcs]	100



Type	NLT 125
H [mm]	12.5
L [mm]	2.7
Packing [pcs]	100



## COLOURS



White

(501)



Milky White

(502)



White Ivory

(901)



Ivory

(903)



Bahama Beige

(902)



Light Grey

(303)



Grey

(302)



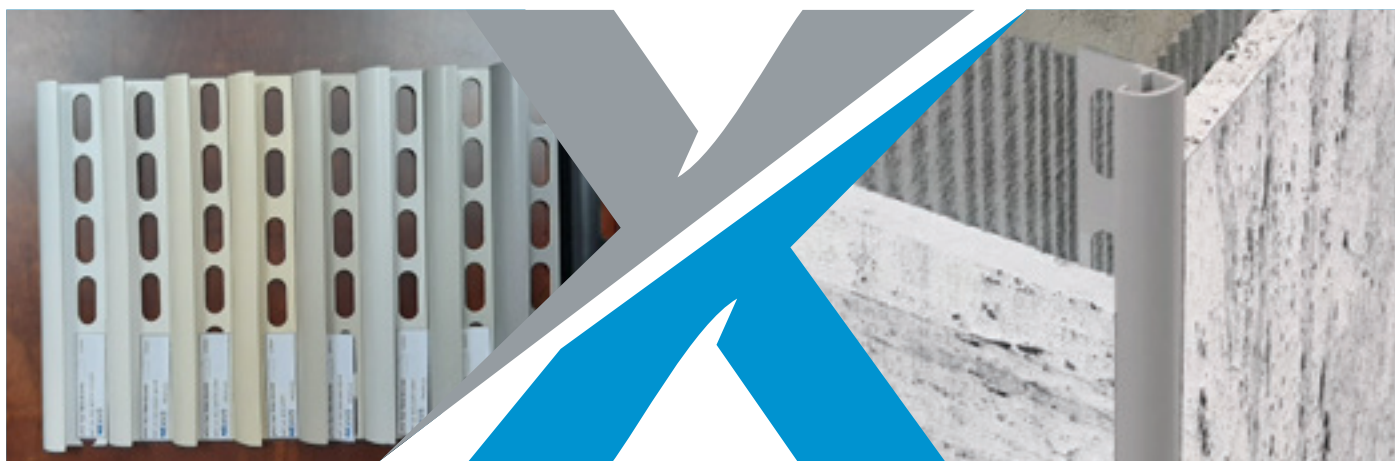
Cement Grey

(301)



Black

(101)



## FEATURES

- Protect the external corners of Ceramic coverings.
- Available in 9 Colours.

## SURFACE

- Smooth uPVC
- Colours:  
White, Milky White, White Ivory, Ivory, Bahama Beige, Light Grey, Grey, Cement Grey, Black.

## MATERIAL

- uPVC with excellent weatherability and high resistance to ageing.

## TECHNICAL INFORMATION

Type	NRT 08
H [mm]	8
L [mm]	2.7
Packing [pcs]	100



Type	NRT 010
H [mm]	10
L [mm]	2.7
Packing [pcs]	100



Type	NRT 125
H [mm]	12.5
L [mm]	2.7
Packing [pcs]	100



## COLOURS



White

(501)



Milky White

(502)



White Ivory

(901)



Ivory

(903)



Bahama Beige

(902)



Light Grey

(303)



Grey

(302)



Cement Grey

(301)



Black

(101)



## SURFACE

- Protect the external corners of Ceramic coverings.
- Available in 9 Colours.

## SURFACE

- Smooth uPVC
- Colours:  
White, Milky White,  
White Ivory, Ivory,  
Bahama Beige, Light Grey,  
Grey, Cement Grey, Black.

## MATERIAL

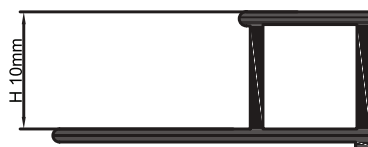
- uPVC with excellent weatherability and high resistance to ageing.

## TECHNICAL INFORMATION

Type	NST 08
H [mm]	8
L [mm]	2.7
Packing [pcs]	100



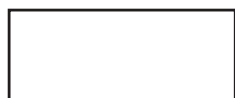
Type	NST 010
H [mm]	10
L [mm]	2.7
Packing [pcs]	100



Type	NST 125
H [mm]	12.5
L [mm]	2.7
Packing [pcs]	100



## COLOURS



White

(501)



Milky White

(502)



White Ivory

(901)



Ivory

(903)



Bahama Beige

(902)



Light Grey

(303)



Grey

(302)



Cement Grey

(301)



Black

(101)

## NEXUS STAIR NOSING PROFILES

NEXUS Stair Nosing Profiles increase the lifespan of the stairs, providing a long lasting and safe staircase. Nexus Stair Nosing helps protect the most exposed areas of the stair tread from damage and general wear.

Nexus Stair Nosing Profiles are made from quality raw material, with care and professionalism to accommodate most designs and color-matches a wide variety of finishes. It increases safety by offering slip-resistant tread for the leading edge of stairs that promote foot traction to protect steps from wear and tear



# AST 5030



## FEATURES

- Protect Step Edge.
- Provide Slip Resistance.
- Provide Visual Contrast for step edge.

## SURFACE

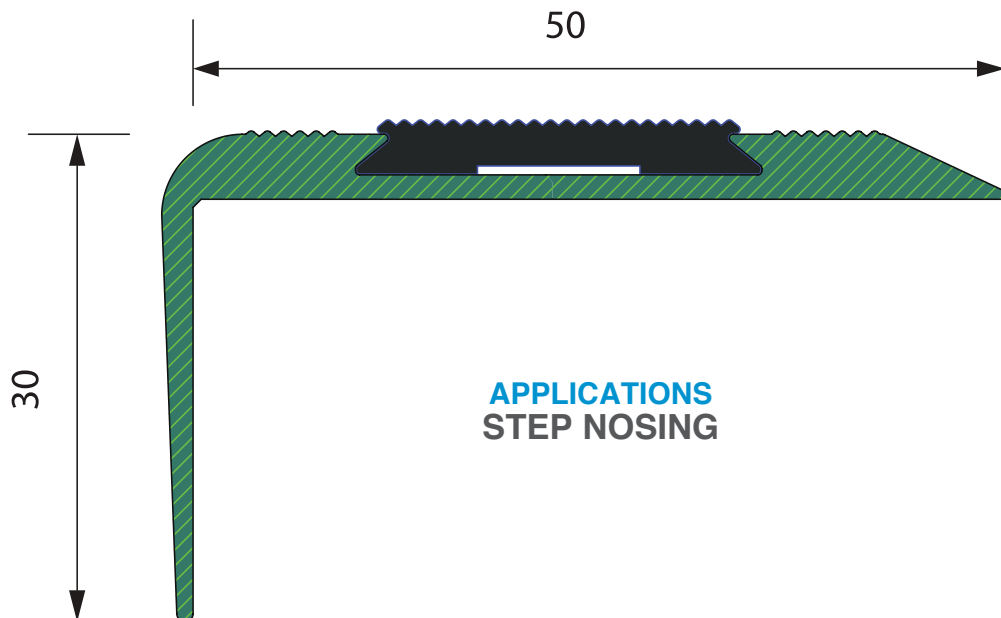
- Anodized Aluminium with Interchangeable Rubber Insert.
- Colours : Silver, Gold & Bronze.

## MATERIALS

- Aluminium Alloy 6063, T6
- EPDM Rubber

## FUNCTIONS

- The upper side is knurled to increase slip and slide resistance.
- Rubber part Changeable.



## APPLICATIONS STEP NOSING

# AST 5530



## FEATURES

- Protect Step Edge.
- Provide Slip Resistance.
- Provide Visual Contrast for step edge.

## SURFACE

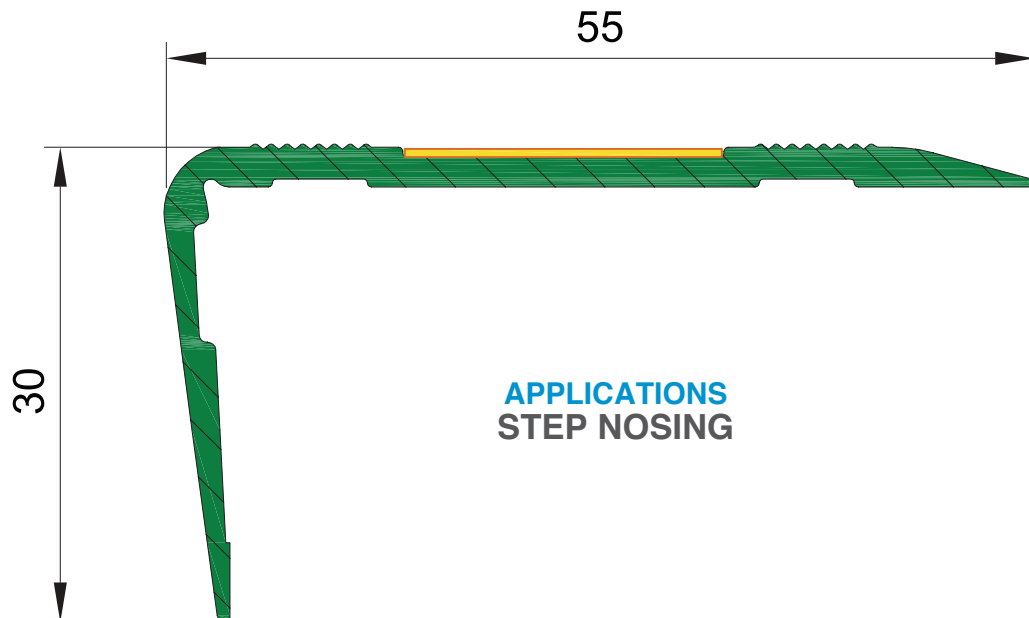
- Anodized Aluminium with Interchangeable Carborundum Non-Slip Strip.
- Colours : Silver, Gold & Bronze with Black Carborundum..

## MATERIALS

- Aluminium Alloy 6063, T6
- 20mm Self-Adhesive Carborundum.

## FUNCTIONS

- The upper side is knurled to increase slip and slide resistance.
- Carborundum part Changeable.



# AST 4525



## FEATURES

- Protect Step Edge.
- Provide Slip Resistance.
- Provide Visual Contrast for step edge.

## SURFACE

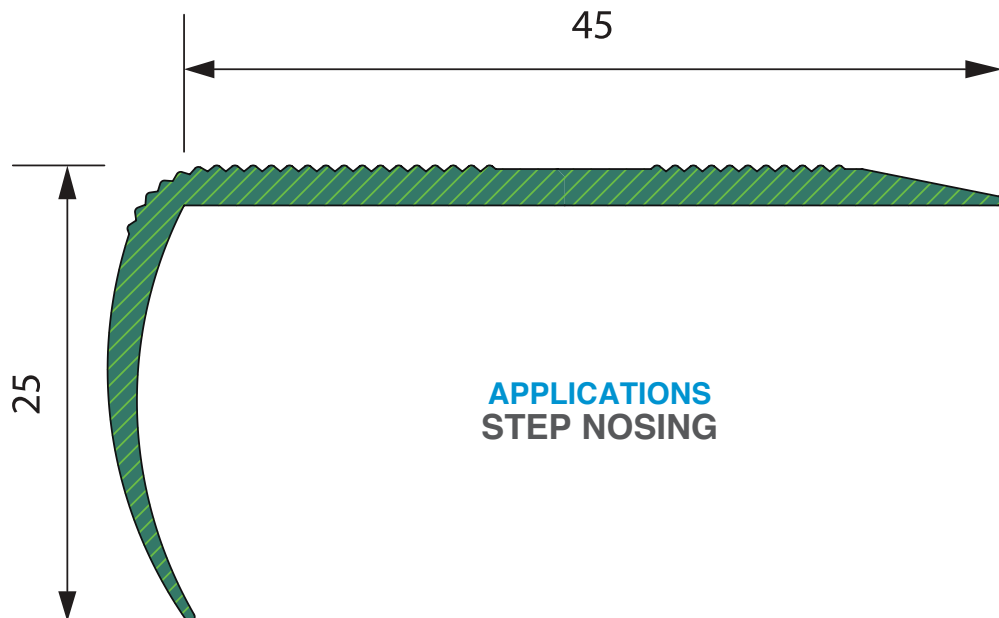
- Anodized Aluminium .
- Colours : Silver, Gold & Bronze.

## MATERIALS

- Aluminium Alloy 6063, T6

## FUNCTIONS

- The upper side is knurled to increase slip and slide resistance with curved vertical part.
- This profile applicable for steps from 87° upto 90°.



## APPLICATIONS STEP NOSING

# AST 7028



## FEATURES

- Protect Step Edge.
- Provide Slip Resistance.
- Provide Visual Contrast for step edge.

## SURFACE

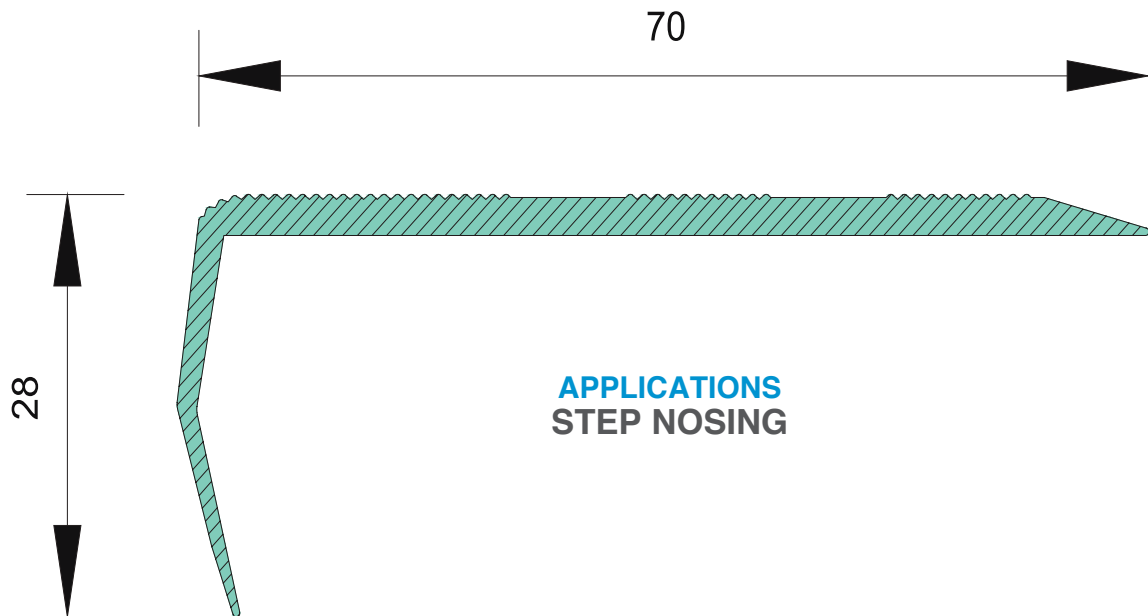
- Anodized Aluminium .
- Colours : Silver, Gold & Bronze.

## MATERIALS

- Aluminium Alloy 6063, T6

## FUNCTIONS

- The upper side is knurled to increase slip and slide resistance.





# **BUILDING IMPACT PROTECTION SYSTEMS**

With over 70 years of experience, Pawling Corporation is the leading manufacturer of high-quality architectural products that will meet your material specifications as well as your design needs. Pawling Corporation pledges to employ all its resources to focus on customer satisfaction and continual improvement. We strive to provide superior quality products and services that meet or exceed customer expectations. We want to be the first choice for architects, general contractors and sourcing managers on all projects where impact protection is needed.

## HANDRAILS

PAWLING Handrails run the gamut of sizes, shapes, colors and styles. In addition to our unique ability to protect all areas of any facility, the design flexibility of these products is limitless.

We offer outstanding protection, thus dramatically reducing maintenance and repair expenses.

Choose from rectangular or curved profiles, many with design options such as grooved surfaces, 70 standard colors and custom color matching.

And our installation option will stretch your budget by using a light weight yet equally durable product that installs more quickly and easily than traditional aluminum retainers.



### BR-500

A universal handrail for all application. Choose a smooth surface or the addition of grooves for added detail (BR-500G). Like the BR-530, the continuous security bracket is also available.

Dimensions: 1-11/2"D x 5-1/2"H  
Protection Level I: Medium-Heavy  
Continuous Security Bracket: Yes



### BR-530

Our Endura Rail features the only aluminum reinforced return in the industry. Also available with a 2-1/4" co-extruded accent stripe (BR-532), or horizontal grooves (BR-530G), this series combines a nearly indestructible handrail with design flexibility.

Dimensions: 1-11/2"D x 5-1/2"H  
Protection Level I: Heavy  
Continuous Security Bracket: Yes



### BR-400V

This three-piece vinyl assembly allows for thousands of color combinations of the handrail, guardrail and enhancing thumb rail stripe in an attractive, durable design. The BR-400VG adds horizontal grooved accent lines on the lower guardrail for added texture and design contrast.

Dimensions: 1-11/2"D x 6-1/4"H  
Protection Level I: Medium-Heavy  
Continuous Security Bracket: Yes



### BR-800

This simple profile has flex-action to fully absorb impact, making it ideal as both a handrail and crash nail. Match the BR-800 with our WG-30 wall guard for a coordinated design.

Dimensions: 1-112"D x 53/8"H  
Protection Level I: Medium-Heavy  
Continuous Security Bracket: No



### BR-4RVV

Foundation Series handrail offers versatility and flexibility by "building" the look you desire. Features: ADA Compliant Class A fire rating Molded returns - with hardware Molded outside corners - with hardware Stock length 12'-0" (3658) Concealed wall mount hardware

Stock lengths: 12'-0" (3658)  
Bracket: Powder coated aluminum with concealed wall mount hardware.  
Custom colors available.

## CORNER GUARDS

Pawling's line of corner guards leads the industry in its breadth of application, with suitable options for protecting every type of facility and every application.

You can rely on Pawling's corner guards to protect your building from front to back.

Choose from flush-mounted or surface-mounted corner guards with styles including vinyl retainers, rigid vinyl, poly carbonate, stainless steel, aluminum, rubber and recycled HDPE.

Most styles are available in multiple sizes, angles, and colors.



### CG-10

This 90° corner guard offers protection in an array of colors. Custom corner angles can also be accommodated. CG-10R's vinyl retainer provides the same level of protection as the original CG-10 with aluminum retainer. It falls under different but equal LEED qualifications, and weighs less per foot, for considerable savings in shipping costs for high quantities.

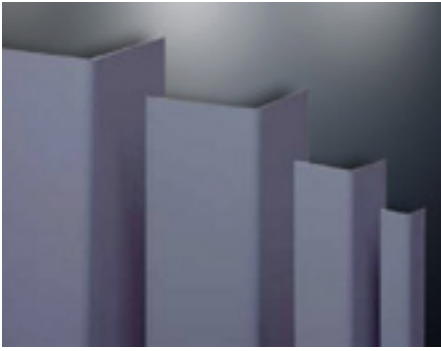
Dimensions: 3" Wing; 90° angle;  
Height up to 12'  
Retainer Type: Recycled Vinyl  
Stock Lengths: 48"; 96"; 108"; 120"; 144" Provides Medium to Heavy Protection



### CG-135

This 135° corner guard offers protection in an array of colors. Custom corner angles can also be accommodated.

Dimensions: 3" Wing; 135° angle; Height up to 12'  
Retainer Type: Aluminum  
Stock Lengths: 48"; 96"; 108"; 120"; 144" Provides Medium to Heavy Protection



### **CG-34**

Our rigid vinyl corner guards provide medium to heavy level protection for all regular corners. CG-34 is available undrilled for adhesive installation (CGU-34) or with double-sided tape applied (CGT-34). Note that due to the narrowness of the wings, CG-34 cannot be provided with a customized angle. Any other corner guard of this variety can be used to provide for corners that do not measure 90°.

Dimensions: 3/4" wings; up to 12' tall  
Stock Lengths: 48"; 96"; 144"

---



### **CG-16**

Our popular clear polycarbonate corner guards allow your décor to shine through. Or, choose from nine additional color options for a coordinated look. With two standard angles, five wing sizes, and two standard lengths, these corner guards provide numerous choices - all with medium level protection. Associated models CG-17 and CG-18 are available through our Rapid Response program.

Dimensions: 3/4" Wings, 90° standard angle  
stock lengths of 4' and 8'  
Custom heights available

---



### **CG-11**

Our CG-11 gives your end wall partitions extra protection with two CG-20 2" wing corner guards and our rigid vinyl wall covering strip as filler.

Wing Dimension: 2" to fit partitions up to 9" wide  
Protection Level: Medium - Heavy

---



### **CG-7**

Standard angle for our 3" wing corner guard is 90°, but we will custom fabricate flush-mounted corner guard to any angle required from 45° to 160°. CG-72 is Class A fire rated when installed.

Dimensions: 3" wing, 90° angle, up to 12' height

---



### **CGF-32**

Our flush-mounted corner guards with special one- or two-hour fire barriers will protect your corners from impact damage, and help protect your patients, tenants, or employees from fire, with big 3" wings.

Dimensions: 3" wings, 135° angle; up to 12' height Also available for 2 Hour-rated walls

## WALL GUARDS

Pawling's wall guards run the gamut of sizes, shapes, colors and styles. In addition to our unique ability to protect all areas of any facility, the design flexibility of these products is limitless. We offer outstanding protection, thus dramatically reducing maintenance and repair expenses.

Choose from rectangular or curved profiles, many with design options such as grooved surfaces, 70 standard colors and custom color matching.

And our installation option will stretch your budget by using a light weight yet equally durable product that installs more quickly and easily than traditional aluminum retainers.



### WG-3

This versatile wall guard can be used as a wainscot cap, chair rail or crash rail. Multiple rows can provide maximum impact protection and decorative appeal. Also available with horizontal grooves (WGG-3), or with spacers for installation that's extended from the wall (WG-3EXT).

Dimensions: 1" D x 2 15/16" H

Protection Level: Medium

Retainer: Continuous aluminum Not available with Red-E-Clip retainer system



### WG-8

Our most popular wall guard product, WG-8 offers heavy-duty impact protection for a larger surface area.

Dimensions: 1" D x 7 3/4" H

Protection Level: Medium - Heavy

Retainer: Continuous aluminum WG-8 qualifies for our Rapid Response program (quantity and color limitations apply).



### WG-5

Our Crescent™ series has an appealing, gentle shape offering a fresh alternative to traditional rectangular designs. WG-5 is available with spacers for installation extended from the wall (WG-5EXT) or with our Red-E-Clip installation system (WG-5C). Our Crescent series also includes a larger wall guard in WG-7 and our BR-600 handrails for a coordinated design package.

Dimensions: 1 1/16" D x 5" H

Retainer: Continuous aluminum (WG-5 or WG-5EXT) or Red-E-Clip (WG-5C)

Protection Level: Medium - Heavy



### WG-30

The WG-30 design adds visual depth and extended protection as a stand-alone crash rail or as a low bumper rail beneath our BR-800 handrail. WG-30 comes standard with rubber spacers to extend it off the wall.

Dimensions: 1 7/8" D x 4 1/8" H

Retainer: Continuous aluminum

Protection Level: Medium - Heavy



### EB-25

This simple rounded profile can be used to protect walls, cashier islands, or nurses stations from carts and equipment, or simply as an accent in your overall design.

Dimensions: 1 1/16" D X 1 1/8" H X 144" L  
Protection Level: Medium

---



### WG-225

A larger version of EB-25, WG-225 is perfect for use in many applications to protect against damage from carts, beds or chairs. The smooth finish helps maintain a clean aesthetic look.

Dimensions: 3/4"D x 2 1/4"H  
Protection Level: Medium

---



### WG-225

A larger version of EB-25, WG-225 is perfect for use in many applications to protect against damage from carts, beds or chairs. The smooth finish helps maintain a clean aesthetic look.

Dimensions: 3/4"D x 2 1/4"H  
Protection Level: Medium

---



### EB-1

The EB-1 series is available in three combinations of rigid and flexible vinyl, and aluminum. The original, EB-1 has a flexible vinyl cover and aluminum channel. Also available with a rigid vinyl channel (EBRF-1) or with both a rigid vinyl cover and channel (EBRU-1).

Dimensions: 1" D X 1" H X 144" L

---



### EB-20

In a non-marking gray natural rubber, EB-20 will protect cart, cabinet, and countertop corners from damage. It can also help prevent personal injury by rounding corners and padding them with a relatively gentler surface.

Dimensions: 1" D X 1 5/16" H X 4 1/4" wings

Our durable and attractive interior protecting products such as wall guards, corner guards, handrails etc., offers versatile design options for interior applications.

## CORNER GUARD

Corner guards are easy and fast to install with a continuous aluminum retainer. Corner guard has variety of wings, angles and height available. Corner guards come with 100 standard colors. We can provide special colors on request. We meet immediate need with availability through our rocket ship program.



### CG-1S

- Superior impact protection in high abuse areas
- Coordinates interiors with mirror or brush finishes
- Offer two installation choices, adhesive or screw-on
- Custom sizes available
- Bullnose angle available

## HANDRAILS

Handrails are stylishly designed available in wide range of standard colors. A decorative feature strip available in several standard colors. Handrails solve safety concerns in commercial, residential, healthcare and hospitality environment. Handrails are ADA and ANSI complaint. It protects against abrasion and damage.



### HR-7F

- Provides better grip ability with ergonomically designed thumb groove
- Stylishly designed handrail available in wide range of standard colors
- Decorative feature available in several standard colors
- Solves safety concerns in Commercial, Residential, Health care & Hospitality environments
- Protects walls against abrasion and damage
- Easy for installation, Clean-up and maintenance

## WALL GUARDS

Wall Guards provides superior impact resistance from carts, luggage, beds and wheelchairs with continuous impact bumper mounted on continuous aluminum retainer. Wall guards offers continuous protection. Wall guards are available in 100 colors with a decorative accent strip available in various colors.



### WG-4A

- Provides superior impact resistance from carts, luggage, beds and wheelchairs with continuous impact bumper mounted on continuous aluminum retainer
- Minimize seams with standard 12' lengths
- offers continuous protection
- Coordinate interiors with 100 standard colors

U-Guard provides the most suitable way to protect your facilities from damage caused by traffic. Through a large selection of heavy duty items designed to suit most applications, U-Guard offers a set of material, each serves to provide the required shield to the facility. Natural rubber, EPDM, SBR, Vinyl, and Urethane compounds are the materials used in manufacturing the distinguished products of uguard.

## CORNER GUARD

### Description

Corner Guards are made from High impact resistant material. They are designed to protect the edges of columns in structures. Corner Guards relieve the tension of chipped & broken corners of pillars / columns. They are mounted into the edges of, preferably all the 4 edges of square columns of basement parking as well as the edges of the walls in industrial premises. They are suitable for medium, and heavy traffic areas & also moving trolleys. Considered to be a perfect solution for chipped edges in car parks, hospitals, nursing homes, laboratories, hotel, schools, sports areas and a multitude of other commercial properties.

### Materials

They are manufactured using high impact resistant SBR Rubber. They are also available in NEOPRENE and EPDM on request. Standard color is black. Designs are available with yellow strip. They are weather resistant, abrasion resistant, crack resistant and do not stain the vehicle.

### Wing Sizes

65x65 mm ; 75x75 mm ; 90x90 mm ; 100x100 mm ; 120x120 mm

### Standard Lengths

1 mtr and 1.2 mtr. Other lengths are available upon request.

### Installation

Clips normally come in GI ( Pre Galvanized Steel ) , but can also be delivered in SS ( Stainless Steel ) and AL ( Aluminum ) upon request .

- 1- Clip to be fixed using 8 Screws M6 x 60 Nylon Wall plug
- 2- Rubber Corner Guard to be installed over the Metal Clip

### SBR - Styrene - Butadiene Rubber

- 1 Good Abrasion Resistance
- 2 Good Aging Stability
- 3 Shore of Hardness [ 50 \_ 90 ]
- 4 Elongation [ 450 \_ 500 % ]
- 5 Possible Temperature [ -40 up to 100 C ]

### EPDM - Ethylene Propylene Diene Monomer ( M-Class) Rubber

- 1 Shore of Hardness [ 40 - 90 ]
- 2 Tensile Failure Stress [ 25 M pa ]
- 3 Possible Temperature [ -50 up to 150 C ]

### Technical Table

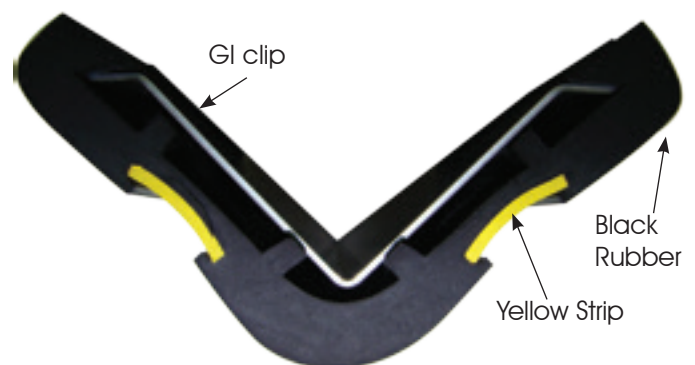
#### Black

Type	Wing Size (mm)
CG - B1	65 mm
CG - B2	75 mm
CG - B3	90 mm
CG - B4	100 mm
CG - B5	120 mm

### Technical Table

#### Black with yellow strip

Type	Wing Size (mm)
CG - B Y1	65 mm
CG - BY2	75 mm
CG - BY3	90 mm
CG - BY4	100 mm
CG - BY5	120 mm



# WALL GUARDS

## Description

Wall Guards are designed to absorb, deflect and minimize the extent of wear, abrasion and impact from wheeled traffic such as trolleys, carts and vehicles. Wall guards are made of aluminum retainer and PVC or Rubber covers. Heavy duty rubber wall and circular profiles offer cost-effective protection for walls, circular columns in busy assembly and access areas.

Wall guards are applicable by mechanical fixation or adhesive fixation to any substrate, including concrete, brickwork and block work, these robust and durable profiles can be used on both internal and external ramps by mitering on-site. It also be curved to accommodate surface variations.

## Materials

Wall guards are applicable by mechanical fixation or adhesive fixation to any substrate. UV and ozone stabilizers for highly-resistant rubber/UV and ozone resistant rubber . They come black with a yellow strip.

## Sizes

200 mm height x 25 mm width , 200 mm height x 50 mm width,  
120 mm height x 30 mm width and other sizes upon request.

## Standard Lengths

These products come in 2 mtr or 4 mtr Rolls.

## Installation

They are installed to wall and column in vertical and horizontal position as per the requirement with the help of M8x80 mm size expansion bolts, at 50 cm distance from the other with washer and P.V.C. Fischer. Each 250mm.

## SBR - Styrene - Butadiene Rubber

- 1 Good Abrasion Resistance
- 2 Good Aging Stability
- 3 Shore of Hardness [50 \_ 90]
- 4 Elongation [450 \_ 500 %]
- 5 Possible Temperature [-40 up to 100 C° ]

## Technical Table

### Black

Type	Thickness (mm)	Width (mm)
WG - B3	30 mm	120 mm
WG - B1	25 mm	200 mm
WG - B2	50 mm	200 mm

## Technical Table

### Black with yellow strip

Type	Thickness (mm)	Width (mm)
WG - BY1	25 mm	200 mm
WG - BY2	50 mm	200 mm



# WHEEL STOPS

## Description

Parking Blocks (Wheel Stop) are fabricated from premium quality Natural /EPDM rubber including: Shore of hardness: 40-90, Tensile failure stress: 25 M pa, and Possible temperature:-50 to 150 c. They have high resistance to severe impact & brutal weather conditions. Parking Blocks will help bring order to your residential and parking lots. These can be installed onto the ground of the allotted /painted Parking Slots to prevent the car from going beyond a certain limit thus protecting the wall / glass glazing structure & the car itself from damages. Solid coloring throughout means they never need painting and will retain an attractive appearance even under the harshest of conditions. These are installed with the help of epoxy & anchor bolts.

## Materials

Wheel stoppers are made of high resistant extruded rubber with excellent weather resistance, crack resistance and abrasion resistance quality. It comes in black rubber with yellow strip.

## Sizes

Base width 130 mm by height of 100 mm

Base width 138 mm by height of 100 mm

Base width 150 mm by height of 150 mm

## Standard Lengths

The standard length is 500 mm up to 2000 mm but the most running is 500 mm and 1800 mm

## Installation

Wheel stopper can be fixed using rawl bolts by putting counter sunk in the stoppers. Our recommendation for fixing is through bolt M10 x 160 mm.

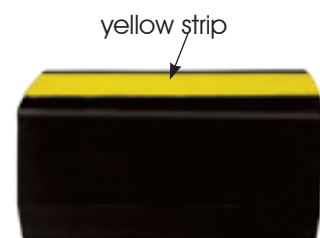
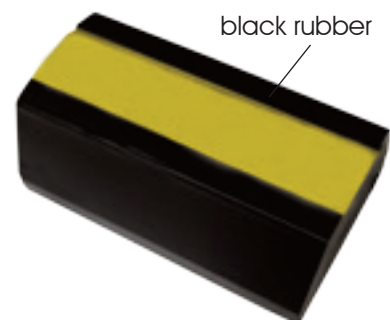
## EPDM - Ethylene Propylene Diene Monomer ( M-Class) Rubber

- 1 Shore of Hardness [40 - 90]
- 2 Tensile Failure Stress [25 M pa]
- 3 Possible Temperature [-50 up to 150 C°]

## Technical Table

### Black with yellow strip

Type	Base Width (mm)	Height (mm)	Length (mm)
WS- BY1	130	100	50-200
WS- BY2	138	100	50-200
WS- BY3	150	150	50-200



# SPEED HUMPS

## Description

A speed hump is a gradual rise and fall of the pavement surface along the roadway extending across the pavement width. Speed humps cause a gentle vehicle rocking motion that causes driver discomfort, thus resulting in most vehicles slowing down to 20 kmh at each hump. Speed humps have the advantage of being self-enforcing. They are sometimes referred to as “sleeping police officers”.

## Materials

The speed humps are made of high impact resistance molded rubber. They have excellent weather resistance and abrasion resistance quality.

## Sizes

400 mm width x 500 mm length x 50 mm height

400 mm width x 250 mm length x 68 mm height

460 mm width x 500 mm length x 75mm height

## Standard Lengths

The standard length is 500 mm and 250 mm

## Installation

Speed humps can be fixed using rawl bolts in alternate black and yellow humps with end caps. Our recommendation for fixing is through bolt M12x100 mm

## High Impact Resistance Molded Rubber

### Technical Table

Black with yellow strip

Type	Base Width (mm)	Height (mm)	Length (mm)
SH-1	400	500	50
SH-2	400	250	68
SH-3	460	500	75



end cap



cat eye reflector



ø12 Hole  
for fixing

# TRAFFIC MIRRORS

## Description

Convex mirrors are commonly used for security and safety reasons to overcome sight restriction problems in visibility deficient areas. It sells high visibility for roads and highways when the speed of cars is low. It is ideal for viewing blind spots, driveways, garages, warehouses, shop, factories, schools, parking areas etc.. They are also increasingly being used in the public road environment by private individuals at sight restricted private property accesses. They are also adjusted to any angle to allow an optimal line of sight. Last but not least, they do not have normal or tough environmental conditions since they can be used widely.

## Materials

U Guard convex acrylic mirrors with anti aging fiber glass mirror frame. It is made up of a composite aluminum (polyethylene). The thickness of the acrylic mirror is 2 mm. And the back side is 0.5 cm and it is 100 % UV stabilized component. It can be installed both on the wall and pole. Besides, it comes with large radius of curvature for minimum distance distortion.

## Standard Diameter

The standard diameter is 600 mm. It also comes in 300 mm, 450 mm, 650 mm, 750 mm, 800 mm and 900 mm.

The bolt screw is M10.

The required distance of the general view is 7, 10 and 18 mtr.

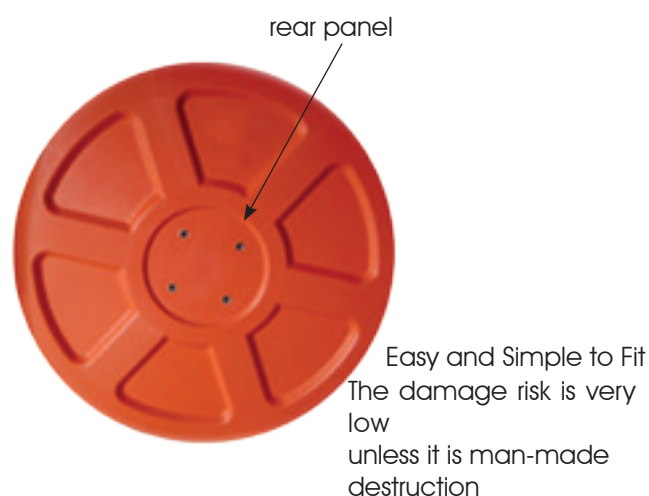
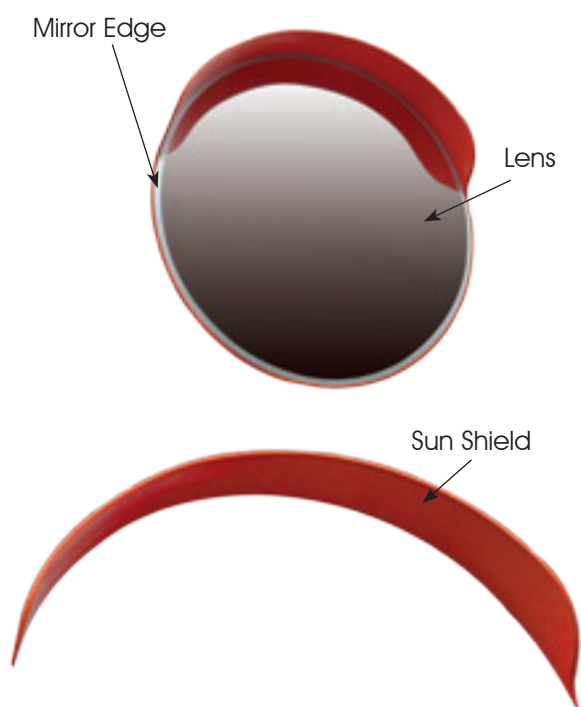
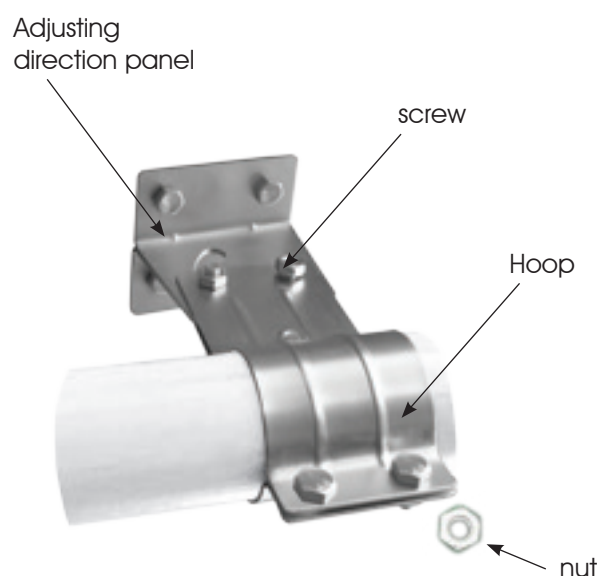
## Installation

The convex mirror should be installed at a location that provides the best view of the road and the oncoming vehicles concerned. Mirrors should be positioned such that the motorist in the vehicle entering (ie. the one required to give-way) can see the opposing vehicle in approximately the center of the mirror. Ideal traffic solution for carpark and entrances.

## Technical Table

Black with yellow strip

Type	Base Width (mm)	Height (mm)	Length (mm)
WS- BY1	130	100	50-200
WS- BY2	138	100	50-200
WS- BY3	150	150	50-200





# PHENOLIC COMPARTMENT & PARTITIONING SYSTEMS

SFSP phenolic compartment and partition systems are manufactured and customized to meet the precise needs of simple to complicated projects with its top-notch finish, quality of material and within a timely delivery. A complete solution with a wide selection of colors and textures are available. Our panels are manufactured from Black Phenolic covered with HPL panels to withstand harsh utilization conditions, while accessories are installed in stainless-steel finish; Gravity hinges, indicators Rosette, Lock set, Knob, Coat Hook, Pedestal leg, tissue holder, Stainless Steel brackets and channels, Stainless steel Strips.

SFSP phenolic compartment and partition systems provide strength, durability and design flexibility. These compartments offer 42 standard color selections and a choice of finishes. Our systems are suitable for high traffic public buildings, malls, entertainment centers, gyms and sports, educational and healthcare, sports facilities, etc..

## PHENOLIC COMPARTMENT AND PARTITION SYSTEMS

### TOILET PARTITION

#### STANDARDS SPECIFICATIONS:

Height: 2000mm Including 150mm floor clearance

Door Size : According to site requirement, typically 600mm

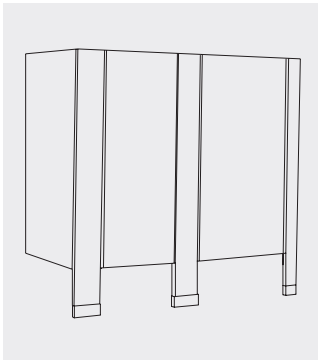
Toilet Compartment Width: According to site requirement, typically 900 mm

Toilet Compartment Depth: According to site requirement, typically 1500 mm

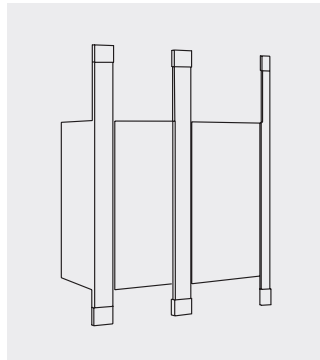
Compact Grade Laminate: 12, 13 mm



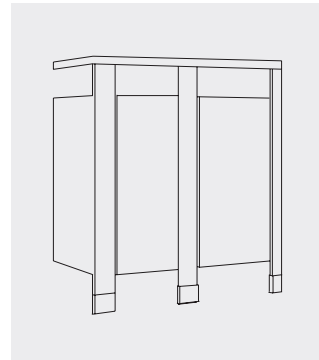
### CONSTRUCTION STYLES



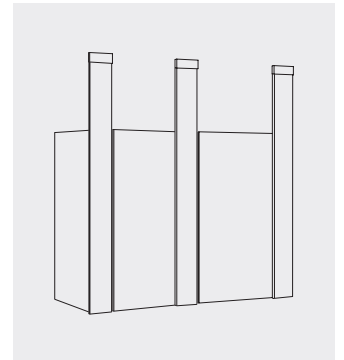
Floor mounted



Floor to ceiling



Overhead braced



Ceiling hung

### STANDARD HARDWARE

- 1- Heavy duty cast stainless steel door hardware and stamped stainless steel bracket hardware.
- 2- Hinges: Our hinges supply heavy duty cast stainless steel Type 304 Number 4 finish. Top hinge consists of heavy-duty nylon bushing mounted to 9mm stainless steel pin within cast stainless steel sleeve. Bottom hinge consists of a cast cam mechanism within hinge pivot. Stainless steel ball bearing slides to assist with gravity fed pivot function and saddle to mount on bottom of door. Fully adjustable Emergency access feature is required for outside access.
- 3- Latch and Keeper: Type 304 stainless steel with Number 4 finish. Latching device consists of a slide latch with combination stop and emergency release feature.
- 4- Coat Hook: Type 304 stainless steel Number 4 finish coat hook for outswing and or combination coat hook and bumper for Inswing
- 5- Door Pull: Type 304 cast stainless steel with a Number 4 Finish.

## RESTROOM CUBICLES



## WASHROOM CUBICLES



## PHENOLIC COMPARTMENT DRESSING ROOMS



## LOCKERS



## PRIVACY SEPARATORS



## URINAL SEPARATORS



## SHOWER & DRESSING

In shower rooms that are constructed for multiple person use, SFSP offers shower and dressing compartments in a wide range of standard or customized configurations to satisfy any requested design concept. We provide dressing compartments to include either doors or curtains and benches can always be incorporated into the design if needed. Our flush, Double-Wall Shower is completely self-contained and ideal for single or multiple installations.



## URINAL & PRIVACY SCREENS



WALL-HUNG URINAL SCREEN (WHUS)

POST-SUPPORTED

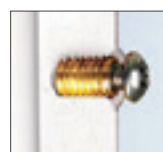
PILASTER-SUPPORTED

## SFSP TOILET PARTITION ADVANTAGES



### Privacy and Security

Gap-Free interlock  
eliminates sight lines.



### Robust Engineering

Factory-Installed Inserts  
provide durability and  
protect against heavy-  
use and abuse.



### Easy Installation

Stile Base Leveling  
Devices ensure perfect  
alignment and plumb.



# ACOUSTICAL CEILING TILES

Ceiling panels and acoustic ceiling come in a variety of modular sizes for suspended ceiling systems. Design beautiful and comfortable spaces with our wide range of acoustic ceiling tiles and wall panels to ensure an optimal indoor environment.

At Rockfon, our guidance to go beyond good acoustics is called Optimized Acoustics design encompasses acoustic absorption, sound insulation and background sound level. An easy way to summarize it is that the role of your ceiling is acoustic absorption and the role of your wall is sound insulation.

# A GUIDE TO ACOUSTIC DESIGN

## A SOUND DESIGN

Everywhere you look, new, modern spaces are coming to life. Wider, more open spaces. Rooms and floors created to promote collaboration and unity. A sense of togetherness, and of oneness. All of which makes thoughtful acoustic design more important than ever.

Rockfon products are used in offices, restaurants, concert halls, libraries, hospitals, schools and universities—places where human comfort truly matters, and helps elevate the human experience. Our products not only deliver optimized acoustic experiences, but we are dedicated to sustainability, energy efficiency, and the health of people and our planet.



**Acoustic design is especially important for schools, medical centers and office environments.**



### Learning

The acoustics inside classrooms determine whether students can understand their teachers.



### Healing

Acoustics can improve patient and resident comfort and safety, while helping maintain caregiver and employee accuracy and productivity.



### Productivity

The acoustics inside office buildings impact employee performance, attendance and retention.



### Overall Wellbeing

Without appropriate room acoustic design inside buildings, noise can seriously harm human health by causing short- and long-term health problems.



# THREE STEPS TO OPTIMIZED ACOUSTICS

Optimized Acoustics is a 3-step architectural and acoustical design process. Rockfon has created a set of interactive online design tools to help you determine the right performance ratings for your space, and provide you with the best product options and construction details.

Here is a brief overview of the simple process that will help you determine the correct amount of sound absorption, noise blocking and background sound your project needs.

## Step 1:

Select the appropriate NRC rating for your ceiling panels

## Step 2:

Select the appropriate STC rating for wall and floor/ceiling assemblies

## Step 3:

Ensure you have the proper background sound level

## ACOUSTIC STANDARDS FOR EDUCATION

Many school buildings must now comply with the stringent acoustic requirements and performance levels in one or multiple standards, guidelines or building rating systems.

With Rockfon's Optimized Acoustics™, you can trust that your design will provide students and educators with an efficient, effective and enjoyable learning experience while complying with industry regulations.



## ACOUSTIC STANDARDS FOR HEALTHCARE

Patient satisfaction and recovery are directly related to hospital and medical center acoustics, and organizations including the World Health Organization recommend maximum noise levels for optimal patient care and staff comfort.

With Rockfon's Optimized Acoustics™, you can be assured that your design will provide both staff and patients with a better working and healing environment, while complying with all industry regulations, guidelines and suggestions.



## ACOUSTIC STANDARDS FOR OFFICE SPACES

Studies show that performance, employee retention and health can all suffer from poor office and workspace acoustics. With more than 90 percent of an organization's operating costs linked to employee efficiency, ceiling design can play a critical role in an organization's bottom line.

Rockfon's Optimized Acoustics™ will help ensure your design will provide office staff with comfortable and more productive working spaces, while adhering to industry standards.

