BETA CONTECH
National Specialized Construction Technologies

Architectural and Industrial Products
CATALOGUE
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. Pedestals are adjustable. Stringered or stringerless understructure. Various types of coverings are available.

Expansion Joint Covers: Pedestrian Floors, Vehicular Floors, Interior and Exterior Walls, Ceilings and Roofs
Architectural joint covers for: Pedestrian Floors, Vehicular Floors, Interior and Exterior Walls, ceilings and Roofs, bituminous layers, concrete installation, coatings, sealants, large traffic loads, multi-dimensional movement. Our systems serve several applications, with different workloads. Profiles are a set of high quality material; extruded aluminum, synthetic rubber, EPDM and natural rubber, stainless steel or brass. Flexible high quality elastomeric insert

Heavy Duty Wall and Corner Guards
Heavy duty wall and corner guards are provided to withstand heavy impacts in parking, logistics and industrial facilities. Profiles are produced from EPDM Rubber, Natural Rubber, Styrene-Butadiene Rubber, Recycled Plastic, and Neoprene.
TECHNICAL PROFILES

- Walls and Floors
- Stair Nosing

Beta Contech offers a vast range of profiles produced from PVC, aluminum, brass and stainless steel to satisfy all sorts of requirements and uses in the laying/fixing of floors in tiles, wood, carpeting, linoleum, marble, laminated wood, melamine-coated wood, etc. The profiles are suitable for various applications such as residential, commercial, hospitals, hotels, educational buildings, transportation facilities, and others.

Besides being grained anti-slip or foot-strip depending on the profile and according to the model, our profiles adds elegantly refined touches in the various substrates of ceramics, marble, wooden, carpet and bare finish areas.

PARTITIONS AND LOCKERS

Partitions and Lockers (Toilet Partitions and Lockers)

Beta Toilets from Beta Contech 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 come in a stainless steel finish; Gravity hinges, indicators Rosette, Lock set, Knob, Coat Hook, Pedestal leg, tissue holder.
RAISED ACCESS
FLOORING SYSTEMS
Apsilon is a leading design and manufacturer of Access Floor System for the construction industry. Our products offer flexibility for the modern office and high technology environment, saving life cycle cost and improving workspace efficiency. Our products offer 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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Standard Panel Options</th>
<th>Panel Surface Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower operating cost</td>
<td>Steel cementitous</td>
<td>Bare</td>
</tr>
<tr>
<td>Increase productivity</td>
<td>Woodcore</td>
<td>HPL</td>
</tr>
<tr>
<td>Less downtime</td>
<td>Calcium Sulphate</td>
<td>Vinyl</td>
</tr>
<tr>
<td>Faster move-in</td>
<td>Die-cast aluminum</td>
<td>Ceramic</td>
</tr>
<tr>
<td>Improve workplace aesthetics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Significant savings on renovations or conversion projects</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technology Flexible</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

### Quality Assurance

![Quality Assurance Images]
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 infilled 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 infilled with high light cement.

1. Screw down system provides the panel 17%, 22%, * Connerlock, * CISCA, PSAComes in steel best structural integrity and rigid structure. AL1000 1 KN Perforated / HPL, Vinyl, RubberEpoxy coating AIR FLOW 25%, 45%, Non-Conerlock, MOB PF2, and die-cast AL1500 1.5 KN Airflow Panel

2. The load is transferred directly to the 55% gravity held BSEN12825 aluminum center of the pedestal column.

3. Pedestals selection is based upon the type of panels application.

Steel flat head pedestal

Aluminum cross-head pedestal

Steel crosshead pedestal

Corner lock system

Bolt on stringer system

Snap on stringer system
## PRODUCT SELECTION GUIDE

<table>
<thead>
<tr>
<th>Brand</th>
<th>Panel Type</th>
<th>Grade</th>
<th>Model Codes</th>
<th>Load Ratings</th>
<th>Understructure Options</th>
<th>Core Material</th>
<th>Coating Types</th>
<th>Top Finish</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIGMA</td>
<td>Cement Core Panel</td>
<td>Medium Heavy</td>
<td>SG668, SG800, SG2500</td>
<td>3.1 KN, 3.3 KN, 11 KN</td>
<td>* Connerlock, * Non-Connerlock, gravity held</td>
<td>Steel &amp; Cement (Concrete)</td>
<td>Zinc Phosphate and then Epoxy coating is applied</td>
<td>HPL, Vinyl, Carpet, CeramicStone, Glass, Wood</td>
<td>CSI, PSA MOB, PP2, BSEN12823</td>
</tr>
<tr>
<td>MATRIX</td>
<td>Woodcore / Woodchipboard Panels</td>
<td>Medium Heavy</td>
<td>MX1500, MX3500, MX4500</td>
<td>1.5 KN, 3 KN, 4.5 KN</td>
<td>* Connerlock, * Non-Connerlock, gravity held</td>
<td>Wood / particle board</td>
<td>Bottom is galvanized steel plate or aluminum plate</td>
<td>HPL, Vinyl, Carpet, CeramicStone, Glass, Wood</td>
<td>CSI, PSA MOB, PP2, BSEN12823</td>
</tr>
<tr>
<td>CALCIUM SULPHATE</td>
<td>Calcium Sulphate Core Panels</td>
<td>Medium Heavy</td>
<td>CS3000, CS4500</td>
<td>3 KN, 4.5 KN</td>
<td>* Connerlock, * Non-Connerlock, gravity held</td>
<td>Calcium Sulphate</td>
<td>Zinc Phosphate and then Epoxy coating is applied</td>
<td>HPL, Vinyl</td>
<td>CSI, PSA MOB, PP2, BSEN12823</td>
</tr>
<tr>
<td>COMPOSITE</td>
<td>Composite Core Panel</td>
<td>Medium Heavy</td>
<td>CS3000, CS4500</td>
<td>3 KN, 4.5 KN</td>
<td>* Connerlock, * Non-Connerlock, gravity held</td>
<td>Composed of Woodcore or Calcium Sulphate</td>
<td>Zinc Phosphate and then Epoxy coating is applied</td>
<td>HPL, Vinyl, Carpet, CeramicStone, Glass, Wood</td>
<td>CSI, PSA MOB, PP2, BSEN12823</td>
</tr>
<tr>
<td>ALUMINUM</td>
<td>Aluminum Panel</td>
<td>Medium Heavy</td>
<td>AL1000, AL1500</td>
<td>1 KN, 1.5 KN</td>
<td>* Connerlock, * Non-Connerlock, gravity held</td>
<td>Solid Cast Aluminum</td>
<td>Zinc Phosphate and then Epoxy coating is applied</td>
<td>HPL, Vinyl, Carpet, CeramicStone, Glass, Wood</td>
<td>CSI, PSA MOB, PP2, BSEN12823</td>
</tr>
<tr>
<td>AIR FLOW</td>
<td>Perforated / Airflow Panel</td>
<td>17%, 22%, 25%, 45%, 55%</td>
<td>AL1000, AL1500</td>
<td>1 KN, 1.5 KN</td>
<td>* Connerlock, * Non-Connerlock, gravity held</td>
<td>Comes in steel and die-cast aluminum</td>
<td>Epoxy coating</td>
<td>HPL, Vinyl, Rubber</td>
<td>CSI, PSA MOB, PP2, BSEN12823</td>
</tr>
</tbody>
</table>

Apsilon panels would play a major role in projects that are seeking certification for LEED such as: recycled contents, air quality, thermal comfort, material reuse, increased ventilation.

### 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 cementitious infill panels delivers superior acoustic & strength
- Entirely non-combustible
- Epoxy paint finish provides extended protection against environmental degradation
- Size: 600 mm x 600 mm & 610 mm x 610 mm
- Thickness: 35 mm
- Static Resistivity: 10 to 1010

**Panel Surface Finish:**
- High Pressure Laminate
- Conductive vinyl tile
- Ceramic tile
- Carpet tile
- Vinyl tile
- Cork tile
- Terrazzo
- ohm-meters
- Rubber tile
- Wood floor tile

C-trim panel

Snap-on understructure system
MATRIX PANELS

Size 600mm×600mm×40mm
(30mm, 26mm)

Structure:
Core: High density Chipboard core(720kg/m^3).
Covering: HPL, Vinyl, Rubber, Carpet, Ceramic, Steel plate.
Bottom: galvanized steel plate or aluminum foil.
Four sides edges: PVC/ABS material.

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.
Application:
1. Woodcore panel is widely used in high-grade rooms, such as banks, telecommunication centers, smart offices and computer rooms.
2. This panel is particularly suitable for areas of high humidity.
3. Excellent interchangeability, environmentally friendly and tight dimensions.
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
Size 600(610)mm×600(610)mm×35mm

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


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 woodcore panel/calcium sulphate panel.
Apsilon also endorse plenum system for access flooring, for further details please contact Apsilon sales.
UNDER STRUCTURES

Stringers

C01  C02  C03  C04  C05  C06
C series pedestals is recommended for Sigma panels
Min FFH: 50 mm Max FFH: 2000 mm

Seismic pedestal

F01  F02  F03  F04  F05  F06
F series pedestals is recommended for bare finish panels Min FFH: 50 mm
Max FFH: 2000 mm

Ramp pedestal

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

120cm x 120cm seismic understructure
SURFACE FINISH OPTIONS

- Conductive PVC tile
- Ceramic tile
- Linoleum
- Vinyl tile PVC
- HPL
ACCESS FLOOR SYSTEM

Access Floor provides infinite flexibility for today’s intelligent buildings delivering future options for the interior space and the people who occupy it. By installing access floor the building space can easily and economically accommodate future changes whether they are organizational, technological, and / or climatic in origin. There are two primary groups of access floor systems:
1. Tascor Systems (Steel Cementitous/Concrete Composite).
2. Tasman Woodcore.

Tascor® Systems

Steel Concrete Composite Access Floors

Tascor Access Floor Systems are an innovative range of high performance steel / concrete composite panels which, when combined with a rigid understructure support, deliver a superior access floor system. The innovative Tascor Systems are designed to cover every different foreseeable application. To achieve this we offer different types of steel / concrete composite access floor systems.

<table>
<thead>
<tr>
<th>SYSTEM TYPE</th>
<th>STATIC LOADS</th>
<th>ROLLING LOADS</th>
<th>IMPACT LOADS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Type</td>
<td>Understructure System</td>
<td>Concentrated Load 25mm Square</td>
<td>Ultimate Load 25mm Square</td>
</tr>
<tr>
<td>TC750U</td>
<td>Stringerless Unifix® (TC100)</td>
<td>3.0kN</td>
<td>9.0kN</td>
</tr>
<tr>
<td>TC750F</td>
<td>Stringerless Gravity held (TC102)</td>
<td>3.0kN</td>
<td>9.0kN</td>
</tr>
<tr>
<td>TC750S</td>
<td>Bolt-on Stringer Gravity held (TC104)</td>
<td>4.0kN</td>
<td>12.0kN</td>
</tr>
<tr>
<td>TC1000U</td>
<td>Stringerless Unifix® (TC100)</td>
<td>4.5kN</td>
<td>13.5kN</td>
</tr>
<tr>
<td>TC1000F</td>
<td>Stringerless Gravity held (TC102)</td>
<td>4.5kN</td>
<td>13.5kN</td>
</tr>
<tr>
<td>TC1000S</td>
<td>Bolt-on Stringer Gravity held (TC104)</td>
<td>4.5kN</td>
<td>13.5kN</td>
</tr>
<tr>
<td>TC1350U</td>
<td>Stringerless Unifix® (TC100)</td>
<td>6.0kN</td>
<td>18.0kN</td>
</tr>
<tr>
<td>TC1350F</td>
<td>Stringerless Gravity held (TC102)</td>
<td>6.0kN</td>
<td>18.0kN</td>
</tr>
<tr>
<td>TC1350S</td>
<td>Bolt-on Stringer Gravity held (TC104)</td>
<td>6.0kN</td>
<td>18.0kN</td>
</tr>
</tbody>
</table>

Above chart provides an easy means for selecting the Tascor Access Floor system that matches the static and dynamic performance requirements of your project. Tasman has solutions to most non-standard needs. Please contact your local Tasman Representative for any further clarifications.

Finishes:

Standard Surface finishes are coated steel for carpet and durable anti-static, high-pressure laminate (HPL), Vinyl, Rubber or bare finish.
Freeelay Stringerless

• Absolutely maximizes underfloor accessibility, while providing moderate stability.

• Standard finished floor height systems provided for nominal finished floor heights from 150mm to 300mm with ± 25mm minimum height adjustment (TC102).

• Low finished floor height systems provided for nominal finished floor heights from 75mm to 200mm with ± 10mm minimum height adjustment (TC103).

• Using the Unifix Pedestal head with special clip on gasket, the positive location lugs ensure system stability. Note however, the recommended height limits.

Unifix Stringerless

• Provides maximum underfloor accessibility, while providing rigid membrane for high stability.

• Standard finished floor height systems provided for nominal finished floor heights from 150mm to 750mm with ± 25mm minimum height adjustment (TC102).

• Low finished floor height systems provided for nominal finished floor heights from 75mm to 200mm with ± 10mm minimum height adjustment (TC103).

• Unifix Pedestal head design provides lateral stability and rigidity, with positive location lugs providing safety even when the system is not locked.
Bolted Stringer System
- Provides maximum grid rigidity under the most demanding conditions.
- Additional rigidity may be achieved using double length stringers (1200mm) (Codes TC104 and TC105 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
- Standard Field Pedestal Assembly for Applications above 150mm Finished Floor Heights.
- Standard Perimeter Pedestal Assembly above 150 mm Finished Floor Height.
- Low Field Pedestal Assembly for Applications from 75mm Finished Floor Height with Equi-potential Bonding Washer.
- Low perimeter Pedestal Assembly for Applications from 75mm Finished Floor Height.
Tasman Woodcore

Features

Construction
Panels are made by sandwich method using 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 finished floor height pedestals is available.

Adjustment
• Pedestal assemblies provide a wide range of total adjustment Sizes.
• Standard system module is 600mm x 600mm.
• Non-standard panel size available on request, and subject to type and quantity.

Finishes
The panel is finished in a standard high pressure laminate (HPL) finish, in standard colors – Greystar and Summer Mist. Non standard and bare finishes are available on request, and subject to type and quantity.

Benefits

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

Precision Sizing
Panels are completely interchangeable for easy relocation of panels.

Meets Standards

Fire Safety
• The panels are tested in accordance with Australian Standard AS1530 Part 3 – 1989.
• Indices achieved are Ignitability 0, Spread of Flame 0, Heat Evolved 0, and Smoke Developed 3.

Quiet
• The high grade Woodcore has excellent sound attenuation.
• Stringer or pedestal gaskets further dampen sound.
**Electrostatic Resistance:**
- Minimum 5 x10^5 Ohms
- Maximum 2 x10^10 Ohms

**Technical Data**
This chart provides an easy means of selecting a Tasman Woodcore System to match the static and dynamic performance required for your specific needs. Other panel types/grades are available on request. Please consult with your local Tasman representative.

**Understructure Systems**

**Bolted Stringer System (FC 100)**
- The stringers are heavy duty 25mm x 25mm welded tube sections.
- Provides maximum rigidity under the most demanding static or seismic conditions.
- Additional rigidity may be achieved using double length stringers (1200mm).
- Provides reference grid grounding capability.
- Understructure resistance to earth maximum 1 ohm over 16 meter radius.

**Tasman Woodcore Performance Selection Chart**

<table>
<thead>
<tr>
<th>SYSTEM TYPE</th>
<th>STATIC LOADS</th>
<th>ROLLING LOADS</th>
<th>IMPACT LOADS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Panel Type</td>
<td>Understructure System</td>
<td>Concentrated Load 25mm Square</td>
</tr>
<tr>
<td>C38</td>
<td>Corner Support Gravity held (FC103)</td>
<td></td>
<td>4.0kN</td>
</tr>
<tr>
<td></td>
<td>Standard Stringer Gravity held (FC100)</td>
<td></td>
<td>4.5kN</td>
</tr>
</tbody>
</table>

**Stringerless System (FC 103)**
- Low finished floor height systems provide for nominal finished floor heights from 75mm to 150mm.
- Standard finished floor height systems provide for nominal finished floor heights from 150mm to 750mm.
- Provides maximum accessibility to underfloor void.
- Pedestal and Gasket design provides lateral stability without bolted or fixed obstructions to under floor void.
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 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.

**Pedestals**

**Standard finished floor height assembly**

For FFH applications from 150mm to 750mm.
- Provides for ± 25mm 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 from 75mm to 150mm.
- Provides for ± 10mm minimum height adjustment at 75mm FFH.
- Recommended for use with stringerless systems.
- Features fully adjustable threaded head assembly with anti rotation gasket, hot-dipped galvanized steel components.
- Accepts 22.5kN axial load without failure or loss of function.
UNI-FLOOR
RAISED ACCESS FLOORING SYSTEMS
UNI-FLOOR RAISED ACCES FLOORING SYSTEMS

HMD600-B ‘MEDIUM-DUTY’ BOLTED-STRINGER SYSTEM

Specification Details

Panel Type: Woodcore Panel with HPL
Understructure: ‘Std-Duty’ Bolted-Stringer

Description of Access Floor System

Woodcore UNI-FLOOR ‘Standard-Duty’ Bolted-Stringer Access Floor System. This access floor system combines panels in a gravity held format within a standard-duty bolted-stringer understructure. The panel and understructure unite to provide excellent lateral stability along with easy access for heavy-duty applications. The finished access floor has a high pressure laminate panel surface finish ready for installation and immediate use.

Description of Panel

Woodcore UNI-FLOOR - access floor panel. The extremely strong panel is manufactured using a strong sandwich-style construction. At the core, a 38mm high-grade resin-cellulose board provides durability and acoustic rating.

To provide an anti-static top surface, a layer of hard wearing high pressure laminate is bonded directly to the core. To increase strength, the bottom surface is bonded with a layer of hot-dipped galvanised steel/Aluminium.

The edges are moulded to produce an accurate and square 600mm x 600mm panel, which is then sealed with a hard plastic trim to provide tough edge protection. All components of the panel are designed to provide excellent strength under heavy-duty static and dynamic loads. Installation & Performance Guarantee

The finished UNI-FLOOR access floor will be rigid, free from vibration and rocking panels within a 3mm level over the entire space. Panels will be accurately cut to fit around all permanent features. All whole panels will be completely interchangeable allowing for any future changes. The access floor will maintain these original conditions when runs of panels have been removed for normal underfloor access.

Performance to Standards Guide

<table>
<thead>
<tr>
<th>Panel Surface Finish</th>
<th>Type of Understructure</th>
<th>Specification Code</th>
<th>Concentrated Load</th>
<th>Ultimate Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Pressure Laminate (HPL)</td>
<td>Standard-Duty Bolted-Stringer</td>
<td>HMD600-B 600X600X38mm</td>
<td>4.6kN</td>
<td>1800 Kg/m2</td>
</tr>
</tbody>
</table>

Electrical Resistance: Minimum 1 x 10^5 Ohms and maximum 1 x 10^9 Ohms.
ARCHITECTURAL
IMPACT PROTECTION SYSTEMS
Pro-Tek® handrails offer a wide variety of styles, colors, and materials for all types of facilities, applications, and budgets.

A near endless list of product options—including all vinyl, all wood, or a combination of the two, grooved surfaces, color accent stripes, 60 standard colors, custom color matching, and faux wood finishes allowing for an incredible wealth of design possibilities.

The only limitation is a designer’s imagination. In addition, many styles also feature a continuous security bracket for high-risk environments.

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

A universal handrail for all applications, the BR-500 combines affordability with design flexibility. Choose a smooth surface or the addition of horizontal grooves for added detail (BR-500G). Corridors can also be color coded with the addition of a seamlessly co-extruded accent stripe (BR-502).
This three-pieces 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. Combine with WG-4 wall guard for a consistent presentation.

For a good power grip, choose the BR-1200 with a 1-1/2” diameter rail. Function, durability and affordability highlight this traditional handrail design.

Wall Guards

Pro-Tek® 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 from all types of abuse, thus dramatically reducing maintenance and repair expenses. Choose from rectangular or curved profiles, many with design options such as grooved surfaces, color accent stripes, 60 standard colors, custom color matching, and faux wood finishes. And our Red-E-Clip® installation option will stretch your budget by using a lightweight yet equally durable product that would be installed more quickly and easily than traditional aluminum retainers.

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).
This uniquely designed wall guard can function equally well as a crash rail or a chair rail. It matches perfectly the style and form of our BR-400 series handrails, providing continuity of design when used together. Also available with horizontal grooves (WGG-4 shown).

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Dimensions</th>
<th>Colors</th>
<th>Protection Level</th>
<th>Continuous Security Bracket</th>
</tr>
</thead>
<tbody>
<tr>
<td>WG-4</td>
<td>3/4”D x 4”H</td>
<td>Standard 60 &amp; Heavy</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>WGG-4</td>
<td>3/4”D x 4”H</td>
<td>Standard 60 Spacer Heavy</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>
Our most popular wall guard product, WG-8 offers heavy-duty impact protection for a larger surface area. Also available with horizontal grooves (WGG-8).

### Corner Guards

#### CG-10/CG-10R

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Colors</th>
<th>Wing Dimension</th>
<th>Style</th>
<th>Corner Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>CG-10</td>
<td>Standard &amp; 60</td>
<td>3”</td>
<td>90°</td>
<td>Med.-Heavy</td>
</tr>
<tr>
<td>CG-10R</td>
<td>Standard &amp; 60</td>
<td>3”</td>
<td>90°</td>
<td>Med.-Heavy</td>
</tr>
</tbody>
</table>

Our most popular wall guard product, WG-8 offers heavy-duty impact protection for a larger surface area. Also available with horizontal grooves (WGG-8).

#### CG-20/CG-20R

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Colors</th>
<th>Wing Dimension</th>
<th>Style</th>
<th>Corner Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>CG-20</td>
<td>Standard &amp; 60</td>
<td>2”</td>
<td>90°</td>
<td>Med.-Heavy</td>
</tr>
<tr>
<td>CG-20R</td>
<td>Standard &amp; 60</td>
<td>2”</td>
<td>90°</td>
<td>Med.-Heavy</td>
</tr>
</tbody>
</table>

For areas with less traffic, our 2” wing corner guard provides the protection needed in a size designed to blend easily into your décor. Also available with a recycled vinyl retainer (CG-20R).
Pro-Tek’s® Heavy-Duty Wall Guard Series feature superior protection from damage caused by all types of traffic. Our proprietary compounds provide chemical and UV stability suitable for most commercial and industrial applications. Whether it’s a warehouse, parking garage, loading dock or other high-traffic areas, Pro-Tek® Heavy-Duty Wall Guards will do the job right—protecting both your people and your property.
# Heavy-Duty Bumpers

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Dimension</th>
<th>Color</th>
<th>Material</th>
<th>Shape</th>
<th>Impact Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-1</td>
<td>1-1/2”D x 8”H</td>
<td>Black</td>
<td>EPDM Rubber</td>
<td>Rectangular</td>
<td>Ultra Heavy-Duty</td>
</tr>
</tbody>
</table>

Used extensively in parking garages, industrial plants, warehouses, and building service areas, the E-1 can be wrapped around cylindrical columns of 18” diameter or greater. Use it to protect the entire environment-flat or curved, inside or out.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Dimension</th>
<th>Color</th>
<th>Material</th>
<th>Shape</th>
<th>Impact Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-2</td>
<td>2”D x 9”H</td>
<td>Black</td>
<td>EPDM Rubber</td>
<td>Rectangular</td>
<td>Ultra Heavy-Duty</td>
</tr>
</tbody>
</table>

Similar to our E-1, but larger still for maximum surface protection (9”). This popular chamfered profile offers an added aesthetic value while still providing excellent protection for walls and vehicles.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Dimension</th>
<th>Color</th>
<th>Material</th>
<th>Shape</th>
<th>Impact Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-2</td>
<td>1-3/4”D x 2”H</td>
<td>Black/Gray</td>
<td>EPDM Rubber</td>
<td>D-shape</td>
<td>Medium</td>
</tr>
<tr>
<td>D-3</td>
<td>3”D x 3”H</td>
<td>Black</td>
<td>EPDM Rubber</td>
<td>D-shape</td>
<td>Heavy-Duty</td>
</tr>
<tr>
<td>D-4</td>
<td>4”D x 4-1/4”H</td>
<td>Black/Gray</td>
<td>EPDM Rubber</td>
<td>D-shape</td>
<td>Ultra Heavy-Duty</td>
</tr>
<tr>
<td>D-6</td>
<td>6”D x 6”H</td>
<td>Black</td>
<td>EPDM Rubber</td>
<td>D-shape</td>
<td>Ultra Heavy-Duty</td>
</tr>
</tbody>
</table>

Vehicles will find extra cushioning from these D-shaped bumpers ranging in size from 2” to 6”.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Dimension</th>
<th>Color</th>
<th>Material</th>
<th>Shape</th>
<th>Impact Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-2</td>
<td>1-3/4”D x 8”H</td>
<td>Charcoal</td>
<td>Urethane</td>
<td>Rectangular</td>
<td>Heavy-Duty</td>
</tr>
</tbody>
</table>

For good weather resistance and a non-marking surface, choose our urethane E-2 wall guard with matching molded end caps and outside corners.
Speed Bumps & Bumper Guards

- Used extensively in commercial parking garages and building service areas.
- Can be wrapped around cylindrical columns of 46 cm diameter or greater.
- Profile designed to maximize wall surface area protection & high impact absorption.

**Types WG-ER, WG-WR**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>(A) Width (mm)</th>
<th>(B) Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE WG - ER1</td>
<td>24</td>
<td>200</td>
</tr>
<tr>
<td>TYPE WG - ER2</td>
<td>25</td>
<td>200</td>
</tr>
<tr>
<td>TYPE WG - ER3</td>
<td>30</td>
<td>120</td>
</tr>
<tr>
<td>TYPE WG - ER4</td>
<td>30</td>
<td>200</td>
</tr>
<tr>
<td>TYPE WG - ER5</td>
<td>50</td>
<td>200</td>
</tr>
<tr>
<td>TYPE WG - WR1</td>
<td>24</td>
<td>200</td>
</tr>
<tr>
<td>TYPE WG - WR2</td>
<td>33</td>
<td>118</td>
</tr>
</tbody>
</table>

EPDM Rubber Compound

Expansion Anchor/Bolt 8 x 80 mm
**TYPES WG-NB, WG-RB**

- Type WG - NB is ideal for fastening to carts and equipment edges with its 5.1 cm base.
- Type WG - RB Ideal for fastening to carts and equipment edges with its 7.6 cm base.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>(A) Width (mm)</th>
<th>(B) Height (mm)</th>
<th>(C) Base Width (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE WG - NB</td>
<td>44</td>
<td>51</td>
<td>16</td>
</tr>
<tr>
<td>TYPE WG - RB</td>
<td>76</td>
<td>76</td>
<td></td>
</tr>
</tbody>
</table>

Expansion Anchor/
Bolt 12 x 100 mm
Bolt 12 x 150 mm

**TYPES WG-NB, WG-RB**

Solid block construction for maximum impact resistance with chamfered edge for safety.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>(A) Width (mm)</th>
<th>(B) Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE WG - SR</td>
<td>55</td>
<td>127</td>
</tr>
<tr>
<td>TYPE WG - SR1</td>
<td>89</td>
<td>115</td>
</tr>
</tbody>
</table>

Expansion Anchor/
Bolt 10 x 120 mm

**TYPES WG-SB1 & SB2**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>(A) Width (mm)</th>
<th>(B) Height (mm)</th>
<th>(C) Base Width (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE WG - SB1</td>
<td>89</td>
<td>114</td>
<td>51</td>
</tr>
</tbody>
</table>
**TYPE CG-NE1 & NE2**

- Natural EPDM for outstanding abrasion resistance.
- Maximum impact protection.
- UV, ozone stabilizers provide good weather resistance.
- Ideal for exterior applications.
- Use on square corners.
- Install using adhesive, or expansion bolt.
- Type CG-NE3 is available with chamfered corners, and is suitable for many concrete columns and archways in parking areas.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>(A) Width (mm)</th>
<th>(B) Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE CG-NE1</td>
<td>75</td>
<td></td>
</tr>
<tr>
<td>TYPE CG-NE2</td>
<td>125</td>
<td>22</td>
</tr>
<tr>
<td>TYPE CG-NE3</td>
<td>125</td>
<td>22</td>
</tr>
</tbody>
</table>

**TYPE CG-NE1 & NE2**

- Natural EPDM for maximum impact resistance.
- UV, ozone stabilizers provide good weather resistance.
- Outstanding abrasion resistance.
- Exterior applications.
- Use on square corners.
- Yellow reflective strip to cover the fixing accessories.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>(A) Width (mm)</th>
<th>(B) Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE WG-YE1</td>
<td>140</td>
<td>40</td>
</tr>
</tbody>
</table>

**TYPES CG-VI**

- Flexible vinyl.
- For interior applications (hotels, offices, retail stores, carts, cabinets) where low protection is required.
- Moderate impact protection.
- Selection of colors to suit furniture.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>(A) Length (mm)</th>
<th>(B) Radius (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE CG-YE1</td>
<td>64</td>
<td>5</td>
</tr>
</tbody>
</table>
**TYPE DB-RS2**

- Rectangular shaped dock bumper.
- One piece molded construction.
- Good abrasion and weather resistance.
- High impact absorption to protect docks and vehicles.
- For use in commercial loading dock areas and industrial in-plant wall protection.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>(A) Height (mm)</th>
<th>(B) Radius (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE DB - RS2</td>
<td>305</td>
<td>610</td>
</tr>
</tbody>
</table>

**TYPE SB-YB, SB-YB1, SB-YB2**

- This type is manufactured from Natural, SBR, or EPDM rubber according to the different weather conditions, providing flexibility in all situations.
- Slows traffic to 8-15 Kmh.
- Low maintenance cost.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>(A) Height (mm)</th>
<th>(B) Width (mm)</th>
<th>(C) Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE SB - YB</td>
<td>50</td>
<td>420</td>
<td>495</td>
</tr>
<tr>
<td>TYPE SB - YB1</td>
<td>60</td>
<td>500</td>
<td>600</td>
</tr>
<tr>
<td>TYPE SB - YB2</td>
<td>68</td>
<td>400</td>
<td>250</td>
</tr>
</tbody>
</table>

**TECHNICAL SPECIFICATION FOR WHEEL STOPS**

<table>
<thead>
<tr>
<th>POLYMER</th>
<th>EPDM Rubber Compound</th>
</tr>
</thead>
<tbody>
<tr>
<td>HARDNESS</td>
<td>70 ± 5° SHORE A</td>
</tr>
<tr>
<td>TENSILE STRENGTH</td>
<td>1100 psi (7.733 N/mm²)</td>
</tr>
<tr>
<td>ELONGATION</td>
<td>230 %</td>
</tr>
<tr>
<td>TEMPERATURE RANGE</td>
<td>-20 °C to +110 °C</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY</td>
<td>1.4 gm/cm³</td>
</tr>
</tbody>
</table>

**TYPE WS-CS1**

- Low maintenance - does not need painting.
- Lightweight - ten times lighter than concrete.
- Yellow safety strip.
- Allows for single-person installation.
- Will not chip.
- More durable than concrete.
- Designed to absorb and distribute impact.

| Dimensions  | (A) Base Width (mm) | (B) Height (mm) | *Length (mm) *
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE WS - CS1</td>
<td>130</td>
<td>100</td>
<td>1800</td>
</tr>
</tbody>
</table>
**WALL PROTECTORS (WALL GUARDS)**

**DESCRIPTIONS**

Wall protectors are designed to protect walls from damages caused by collision as well as abrasions of moving objects. The rubber is formulated to withstand severe working environment.

**SIZES**

<table>
<thead>
<tr>
<th>Sl No.</th>
<th>Code</th>
<th>Dimensions</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TRWP 200/25</td>
<td>200 mm x 25 mm</td>
<td>200</td>
<td>25</td>
<td>30</td>
<td>60</td>
</tr>
<tr>
<td>2</td>
<td>TRWP 120/30</td>
<td>120 mm x 30 mm</td>
<td>120</td>
<td>30</td>
<td>20</td>
<td>40</td>
</tr>
<tr>
<td>3</td>
<td>TRWP 200/50</td>
<td>200 mm x 50 mm</td>
<td>200</td>
<td>50</td>
<td>20</td>
<td>60</td>
</tr>
<tr>
<td>4</td>
<td>TRWP 200/50SP*</td>
<td>200 mm x 25 mm</td>
<td>200</td>
<td>25</td>
<td>30</td>
<td>80*</td>
</tr>
</tbody>
</table>

*The Standard Length is 1 meter, but we can supply different sizes as per customer requirement.*

**PARKING BLOCKS**

**DESCRIPTION**

Parking blocks are used in the car parks as wheel stoppers. The specially formulated rubber is used to withstand the harsh handling conditions.

**SIZE**

The size of the parking block is 137.5 mm x 75 mm. The unit length varies from 1.5 to 2 meters and designed to cover the complete width of the individual car park.

**SPEED BREAKER/ROAD HUMPS**

**DESCRIPTIONS**

Speed Breakers are designed to control the speed of vehicles. Speed Breakers are made of specially formulated synthetic polymer to get prolonged service life, and cushioning effect to moving vehicles.

**APPLICATIONS**

Speed Breakers are used in roads, vehicle pathways in parking area of buildings, service stations, vehicle testing centers and similar applications.
**PILLAR PROTECTORS (CORNER GUARDS)**

**DESCRIPTIONS**

Pillar protectors are designed to protect the corners of columns from damages caused by collision as well as abrasions of moving objects. The rubber is formulated to withstand severe working environment.

<table>
<thead>
<tr>
<th>Sl No.</th>
<th>Code</th>
<th>Wing Length (mm)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TRPP65</td>
<td>65</td>
<td>87</td>
<td>65</td>
<td>7</td>
<td>14</td>
</tr>
<tr>
<td>2</td>
<td>TRPP75</td>
<td>75</td>
<td>108</td>
<td>75</td>
<td>7</td>
<td>14</td>
</tr>
<tr>
<td>3</td>
<td>TRPP90</td>
<td>90</td>
<td>125</td>
<td>85</td>
<td>9</td>
<td>16</td>
</tr>
<tr>
<td>4</td>
<td>TRPP100</td>
<td>100</td>
<td>130</td>
<td>100</td>
<td>16</td>
<td>4</td>
</tr>
</tbody>
</table>

The Standard Length is 1 meter, but we can supply different sizes as per customer requirement.

**COLOUR**

Standard colour of Pillar Protectors is black. However it can be manufactured in different colours as per customer requirement.

**INSTALLATION OF PILLAR PROTECTORS:**

1. Drill hole of 8 mm Diameter with a minimum hole depth of 50mm.
2. Clean out the hole by removing debris.
3. Insert the shell of anchor bolt inside the hole.
4. Place Pillar Protector (Column Guard) on column/wall. Insert the bolt and tighten to the recommended torque 6.5 Nm for 30 N/mm² concrete.
   For size TRPP 100, any good quality Neoprene based adhesive may be used for fixing the Pillar protectors.

**TECHNICAL SPECIFICATION – BUILDING PROTECTION SYSTEM**

Building Protection Systems are manufactured from high impact resistant rubber, which is chemically resistant to harsh weather conditions. The specially designed formulation, withstand damages caused by collisions as well as abrasions.

<table>
<thead>
<tr>
<th>S.NO.</th>
<th>PROPERTY</th>
<th>UNIT</th>
<th>TEST METHOD</th>
<th>VALUES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Polymer type</td>
<td></td>
<td>EPDM</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Appearance &amp; Finish</td>
<td>--</td>
<td>--</td>
<td>Smooth &amp; glossy</td>
</tr>
<tr>
<td>3</td>
<td>Hardness</td>
<td>Shore“A”</td>
<td>ASTM D 2240</td>
<td>80 ± 10</td>
</tr>
<tr>
<td>4</td>
<td>Specific Gravity</td>
<td>--</td>
<td>--</td>
<td>1.20 – 1.50</td>
</tr>
<tr>
<td>5</td>
<td>Tensile Strength, min.</td>
<td>MPa</td>
<td>ASTM D 412</td>
<td>8.0</td>
</tr>
<tr>
<td>6</td>
<td>Elongation @ Break, min.</td>
<td>%</td>
<td>ASTM D 412</td>
<td>350</td>
</tr>
<tr>
<td>7</td>
<td>Tear Strength, min.</td>
<td>N/mm</td>
<td>ASTM D 412</td>
<td>40</td>
</tr>
<tr>
<td>8</td>
<td>Ozone Resistance (24 hrs/23°C, 50 pphm)</td>
<td></td>
<td>ASTM D 1149</td>
<td>No Cracks</td>
</tr>
<tr>
<td>9</td>
<td>Compression set, 22 hrs at 70°C, 25% deflection, Max.</td>
<td>%</td>
<td>ASTM D 395</td>
<td>20</td>
</tr>
<tr>
<td>10</td>
<td>Resistance to Weathering(UV): Xenon arc,7560 kJ/m² total radiant exposure at 0.70 W/m² irradiance, 80°C black panel temperature</td>
<td>ASTM D 151</td>
<td>No Cracks No Crazing</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Flame Retardant test</td>
<td>sec</td>
<td>UL-94</td>
<td>20</td>
</tr>
<tr>
<td>12</td>
<td>Lateral Impact Resistance</td>
<td>Ft-Lbs/inch</td>
<td>ASTM D-256-90b</td>
<td>20</td>
</tr>
</tbody>
</table>

The above values are for tests carried out under strict laboratory conditions using specimens taken from batches of unvulcanised rubber compound. Due to constant improvements made in the design and process, these specifications are subjected to revision.
SERIES FL 21/..., FLK 21/..., FLT 21/..., FLG 21/...
FOR FLOORS WITH DIFFERENT TYPES OF COVERINGS

Insert replaceable at any time
Secure fixing by perforated mounting brackets
Profile absorbs settlements
Movement capacity 5 mm
For joint width up to 20 mm

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Profile</th>
<th>Joint width max.min</th>
<th>Total movement mm</th>
<th>Visible width of profile mm</th>
<th>Total width of profile mm</th>
<th>Installation height mm</th>
<th>*Load capacity cars + lorries (DIN1072) kn</th>
<th>*Load capacity fork lift trucks (DIN1055) kn</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL 21/2000</td>
<td>20</td>
<td>5 +3/-2</td>
<td>21</td>
<td>107</td>
<td>20</td>
<td>30</td>
<td>not allowed</td>
</tr>
<tr>
<td>FL 21/3500</td>
<td>20</td>
<td>5 +3/-2</td>
<td>21</td>
<td>111</td>
<td>35</td>
<td>30</td>
<td>not allowed</td>
</tr>
<tr>
<td>FL 21/5000</td>
<td>20</td>
<td>5 +3/-2</td>
<td>21</td>
<td>111</td>
<td>50</td>
<td>30</td>
<td>not allowed</td>
</tr>
<tr>
<td>FLK21/2000</td>
<td>20</td>
<td>5 +3/-2</td>
<td>21</td>
<td>107</td>
<td>20</td>
<td>30</td>
<td>not allowed</td>
</tr>
<tr>
<td>FLK21/3500</td>
<td>20</td>
<td>5 +3/-2</td>
<td>21</td>
<td>111</td>
<td>35</td>
<td>30</td>
<td>not allowed</td>
</tr>
<tr>
<td>FLK21/5000</td>
<td>20</td>
<td>5 +3/-2</td>
<td>21</td>
<td>111</td>
<td>50</td>
<td>30</td>
<td>not allowed</td>
</tr>
<tr>
<td>FLT 21/2000</td>
<td>20</td>
<td>5 +3/-2</td>
<td>21</td>
<td>107</td>
<td>20</td>
<td>30</td>
<td>not allowed</td>
</tr>
<tr>
<td>FLT 21/3500</td>
<td>20</td>
<td>5 +3/-2</td>
<td>21</td>
<td>111</td>
<td>35</td>
<td>30</td>
<td>not allowed</td>
</tr>
<tr>
<td>FLT 21/5000</td>
<td>20</td>
<td>5 +3/-2</td>
<td>21</td>
<td>111</td>
<td>50</td>
<td>30</td>
<td>not allowed</td>
</tr>
<tr>
<td>FLG21/2000</td>
<td>20</td>
<td>2 +1/-1</td>
<td>21</td>
<td>107</td>
<td>20</td>
<td>30</td>
<td>not allowed</td>
</tr>
<tr>
<td>FLG21/3500</td>
<td>20</td>
<td>2 +1/-1</td>
<td>21</td>
<td>111</td>
<td>35</td>
<td>30</td>
<td>not allowed</td>
</tr>
<tr>
<td>FLG21/5000</td>
<td>20</td>
<td>2 +1/-1</td>
<td>21</td>
<td>111</td>
<td>50</td>
<td>30</td>
<td>not allowed</td>
</tr>
</tbody>
</table>

MATERIALS

Aluminium side plates with perforated aluminium mounting brackets.
Flexible high quality elastomeric insert, long wearing, weather resistant, temperature resistant
(-30°C to + 120°C), extensively resistant to oils, acids and bitumen.
Standard colours : black, grey
SERIES FL 21/..., FLK 21/..., FLT 21/..., FLG 21/...
FOR FLOORS WITH DIFFERENT TYPES OF COVERINGS

CORNER VERSIONS E3 AND E4
SERIES FLK 21/...
For joints in floors with PVC covering.
Flexible insert made of modified PVC
can be welded to PVC coverings for waterproofness.
Upstand: 3 mm
Standard colour: grey

SERIES FLT 21/...
For joints in floors with carpet.
Flexible high quality elastomeric insert, long wearing,
weather resistant, temperature resistant (-30°C to
+120°C), extensively resistant to oils, acids and bitumen.
Upstand: 5 mm
Standard colour: grey

SERIES FLG 21/...
For joints with hygienic requirements.
Flexible high quality elastomeric insert, long wearing,
weather resistant, temperature resistant (-30°C to
+120°C), extensively resistant to oils, acids and bitumen.
Standard colour: grey

Profiles of series FLK 21/... and FLT 21/... are supplied with flush
mounted distance insert of profile FL 21/....
The top edge of the aluminium profile can be used as a screeding
guide.
The distance insert protects the profile until covering is laid.
This method avo
SERIES FV 35/…, FV 41/…
FOR WALLS AND FLOORS

Insert replaceable at any time
Positive connection of production lengths by staggering the joints
Adjustable installation heights
Movement capacity 14 mm
For joint widths up to 35 m

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Profile</th>
<th>Joint width max.min</th>
<th>Total movement mm</th>
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<th>Total width of profile mm</th>
<th>Installation height mm</th>
<th>*Load capacity cars + lorries (DIN1072) kn</th>
<th>*Load capacity fork lift trucks (DIN1055) kn</th>
</tr>
</thead>
<tbody>
<tr>
<td>FV 35/1500</td>
<td>30</td>
<td>10 +/-5</td>
<td>35</td>
<td>108</td>
<td>15</td>
<td>30</td>
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<tr>
<td>FV 35/2000</td>
<td>30</td>
<td>10 +/-5</td>
<td>35</td>
<td>108</td>
<td>20</td>
<td>30</td>
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<tr>
<td>FV 35/2500</td>
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<td>35</td>
<td>108</td>
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<tr>
<td>FV 35/3500</td>
<td>30</td>
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<td>35</td>
<td>125</td>
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<tr>
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<td>30</td>
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<tr>
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<td>FV 35/7590</td>
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<td>108</td>
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<tr>
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</table>

MATERIALS

Aluminium side plates with perforated aluminium mounting brackets. Flexible high quality elastomeric insert, long wearing, weather resistant, temperature resistant (-30°C to + 120°C), extensively resistant to oils, acids and bitumen. Production length: 4 m
Standard colors: black, grey, brown, light beige. Corner Standard colors: black, grey, total movement 14 mm +/-7 mm
SERIES FP 55/... 4s
for walls and floors

Insert Replaceable At Any Time
Positive connection of production lengths by use of connecting pieces profile absorbs settlements movement capacity 22 mm for joint widths up to 58 mm

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Profile</th>
<th>Joint max. mm</th>
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<th>Visible width of profile mm</th>
<th>Total width of profile mm</th>
<th>Installation height mm</th>
<th>*Load capacity cars + lorries (DIN1072) kn</th>
<th>*Load capacity fork lift trucks (DIN1055) kn</th>
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<tbody>
<tr>
<td>FP 55/2000</td>
<td>58</td>
<td>22 +/-11</td>
<td>63</td>
<td>158</td>
<td>20</td>
<td>300</td>
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<tr>
<td>FP 55/2500</td>
<td>58</td>
<td>22 +/-11</td>
<td>63</td>
<td>158</td>
<td>25</td>
<td>300</td>
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<tr>
<td>FP 55/3500</td>
<td>58</td>
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<td>63</td>
<td>158</td>
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<tr>
<td>FP 55/5000</td>
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<td>63</td>
<td>158</td>
<td>75</td>
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MATERIALS

Aluminium side plates with perforated mounting brackets.
Flexible high quality elastomeric insert, long wearing, weather resistant, temperature resistant (-30°C to + 120°C), extensively resistant to oils, acids and bitumen.
Production length: 4 m, Standard colours: black, grey
SERIES ESF 9/...ZK
for floors with contraction joints and sound insulation

secure fixing in screed by perforated mounting brackets
extra sound insulation can be obtained by installing
insulation material as a joint filler
visible width of profile 9 mm only

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Profile</th>
<th>Joint max.min</th>
<th>Total movement mm</th>
<th>Visible width of profile mm</th>
<th>Total width of profile mm</th>
<th>Installation height mm</th>
<th>*Load capacity cars + lorries (DIN1072) kN</th>
<th>*Load capacity fork lift trucks (DIN1055) kN</th>
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<td>5</td>
<td>2 +/-1</td>
<td>9</td>
<td>85</td>
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<tr>
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<tr>
<td>ESF 9/50 ZK</td>
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<td>2 +/-1</td>
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<td>85</td>
<td>50</td>
<td>300</td>
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</tbody>
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MATERIALS

Aluminium side plates with perforated mounting brackets Flexible
(cellular rubber) insert
production length:3m
Standard color: grey, special color:black
SERIES FN 35/15, FKN 35/15, FTN 35/15, FOR FLOORS – SURFACE FIXING

Insert replaceable at any time
Profile fkn 35/15 3 mm high upstand can be welded to pvc-coverings
Profile ftn 35/155 mm high upstand
High quality elastomeric
Insert in conjunction with carpets

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Profile</th>
<th>for PVC coverings mm thickness</th>
<th>for carpets mm thickness</th>
<th>Joint width max.mm</th>
<th>Total movement mm</th>
<th>Visible width of profile mm</th>
<th>Installation Depth mm</th>
<th>Thickness of Alu side plates mm</th>
<th>*Load capacity mm</th>
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<tbody>
<tr>
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<td>-</td>
<td>-</td>
<td>35</td>
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<td>112</td>
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<td>FKN 35/15</td>
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<td>10 +/-5</td>
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<td>13</td>
<td>2</td>
<td>light vehicles</td>
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<tr>
<td>FTN 35/15</td>
<td>-</td>
<td>5</td>
<td>35</td>
<td>10 +/-5</td>
<td>30</td>
<td>13</td>
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MATERIALS

Aluminium side plates with flexible high quality elastomeric insert, long wearing, weather resistant, temperature resistant (-30°C to +120°C), extensively resistant to oils, acids and bitumen Profile FKN 35/15 with insert made of modified PVC, can be welded to PVC coverings Production length: 4 m Standard colours: black, grey, beige, brown;
SERIES FN 20/12, FKN 20/12, FTN 20/12, FOR FLOORS – SURFACE FIXING

Insert Replaceable At Any Time
Profile Fkn 20/12 3 Mm High Upstand Can Be Welded To Pvc Coverings
Profile Ftn 20/12 5 Mm High Upstand High Quality Elastomeric Insert In Conjunction With Carpets

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Profile</th>
<th>for PVC coverings mm thickness</th>
<th>for carpets mm thickness</th>
<th>Joint width max.mm</th>
<th>Total movement mm</th>
<th>Visible width of profile mm</th>
<th>Installation Depth mm</th>
<th>Thickness of Alu side plates mm</th>
<th>*Load capacity mm</th>
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</thead>
<tbody>
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<td>-</td>
<td>-</td>
<td>20</td>
<td>5 +3/-2</td>
<td>97</td>
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<td>FKN 20/12</td>
<td>3</td>
<td>-</td>
<td>20</td>
<td>5 +3/-2</td>
<td>17</td>
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<td>light vehicles</td>
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<tr>
<td>FTN 20/12</td>
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<td>20</td>
<td>5 +3/-2</td>
<td>17</td>
<td>12</td>
<td>2</td>
<td>on request</td>
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MATERIALS

Aluminium side plates with flexible high quality elastomeric insert, long wearing, weather resistant, temperature resistant (-30°C to +120°C), extensively resistant to oils, acids and bitumen Profile FKN 20/12 with insert made of modified PVC, can be welded to PVC coverings Production length: 4 m Standard colour: grey, FN 20/12 black and grey
**Series FN 110/30, for Floors - Surface Fixing.**

Insert replaceable at any time
Movement capacity up to 60 mm
Profile absorbs movements in three directions
Joint width 75 mm

---

**TECHNICAL DATA**

<table>
<thead>
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<th>Profile</th>
<th>Joint max. mm</th>
<th>Total movement mm</th>
<th>Visible width of profile mm</th>
<th>Total width of profile mm</th>
<th>Installation height mm</th>
<th>Thickness of alu side plates mm</th>
<th>Load capacity private cars KN</th>
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<tbody>
<tr>
<td>FN 110/30</td>
<td>50</td>
<td>16+/8</td>
<td>43</td>
<td>107</td>
<td>16</td>
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<td>Pedestrians</td>
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**MATERIALS**

Aluminium side plates with perforated mounting brackets.
Flexible high quality elastomeric insert, long wearing, weather resistant, temperature resistant (-30°C to + 120°C), extensively resistant to oils, acids and bitumen.
Production length: 4 m, Standard colours: black, grey
Series FN 50/20, FN 58/20, FN65/20,FN90/20

For floors - Surface Fixing.

Insert replaceable at any time
Profile absorbs settlements
High load resistance
of flexible high quality elastomeric insert due to centre support

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Profile</th>
<th>Joint width max. mm</th>
<th>Total movement mm</th>
<th>Width of insert mm</th>
<th>Total width of profile mm</th>
<th>Installation depth mm</th>
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<th>Load capacity</th>
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<tbody>
<tr>
<td>FN 50/20</td>
<td>50</td>
<td>16+/-8</td>
<td>43</td>
<td>107</td>
<td>16</td>
<td>3</td>
<td>Pedestrians</td>
</tr>
<tr>
<td>FN 58/20</td>
<td>60</td>
<td>22+/-11</td>
<td>51</td>
<td>178</td>
<td>16</td>
<td>3</td>
<td>Light vehicles</td>
</tr>
<tr>
<td>FN 65/20</td>
<td>65</td>
<td>25+16/-9</td>
<td>56</td>
<td>185</td>
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MATERIALS

Aluminium side plates with flexible high quality elastomeric insert,
long wearing, weather resistant, temperature resistant (-30°C to +120°C), extensively resistant to oils,
aacids and bitumen. Production length: 4 m
Standard colours: black, grey, Profile FN 50/20 additionally light beige.
SERIES FS 99/...
FOR FLOORS WITH LARGE MOVEMENTS – ALL-METAL PROFILE TO BE USED BY PEDESTRIANS

visible surface without any gaps to avoid dirt accumulation
symmetrical top view
smooth transition – no-bump
profile absorbs movements in three directions
good skid resistance given by striated surface
movement capacity 40 mm for joint widths up to 70 mm

TECHNICAL DATA

<table>
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<th>Joint max. mm</th>
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<th>Installation height mm</th>
<th>Load capacity</th>
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<tbody>
<tr>
<td>FS 99/2000</td>
<td>70</td>
<td>40 +/- 20</td>
<td>99</td>
<td>186</td>
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<td>Pedestrians</td>
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<tr>
<td>FS 99/3500</td>
<td>70</td>
<td>40 +/- 20</td>
<td>99</td>
<td>186</td>
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<td>light vehicles</td>
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<tr>
<td>FS 99/5000</td>
<td>70</td>
<td>40 +/- 20</td>
<td>99</td>
<td>186</td>
<td>50</td>
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</tbody>
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MATERIALS

Aluminium side plates with perforated aluminium mounting brackets. Flexible high quality elastomeric insert, long wearing, weather resistant, temperature resistant (-30°C to +120°C), extensively resistant to oils, acids and bitumen. Insert with smooth surface (no grooves). Production length: 4m. Standard colours: black, grey
SERIES FS 146/...
FOR FLOORS WITH LARGE MOVEMENTS – ALL METAL PROFILE TO BE USED BY PRIVATE CARS AND PEDESTRIANS

Visible surface without any gaps to avoid dirt accumulation
Symmetrical top view
Smooth transition – no-bump
Profile absorbs movements in three directions
Good skid resistance given by striated surface
Movement capacity 50 mm
For joint width up to 114 mm

TECHNICAL DATA

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<tbody>
<tr>
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<td>114</td>
<td>50 +/-25</td>
<td>146</td>
<td>262</td>
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<td>FS 146/3000</td>
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<td>FS 146/6200</td>
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<td>FS 146/7700</td>
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<td>FS 146/8700</td>
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<td>50 +/-25</td>
<td>146</td>
<td>262</td>
<td>97</td>
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</tr>
</tbody>
</table>

MATERIALS

Aluminium cover profiles with striated top surface and perforated mounting brackets.
Production length: 4 m
Colour: aluminium
SERIES FG 35/...
for walls and floors with hygienic requirements

Insert replaceable at any time
Positive connection of production lengths by staggering the joints
Adjustable installation heights
Smooth visible surface
For joint widths up to 30 mm

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Profile</th>
<th>Joint max. mm</th>
<th>Total movement mm</th>
<th>Visible width of profile mm</th>
<th>Total width of profile mm</th>
<th>Installation height mm</th>
<th>*Load capacity private cars + lorries (DIN1072) kN</th>
<th>Load capacity fork lift trucks (DIN1055) kN</th>
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<tbody>
<tr>
<td>FG 35/1500</td>
<td>30</td>
<td>6 +/- 3</td>
<td>35</td>
<td>108</td>
<td>15</td>
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<tr>
<td>FG 35/2000</td>
<td>30</td>
<td>6 +/- 3</td>
<td>35</td>
<td>108</td>
<td>20</td>
<td>30</td>
<td>not allowed</td>
</tr>
<tr>
<td>FG 35/2500</td>
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<td>6 +/- 3</td>
<td>35</td>
<td>108</td>
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<tr>
<td>FG 35/3000</td>
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<td>FG 35/3500</td>
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<td>FG 35/4000</td>
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<td>35</td>
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<td>30, 35</td>
<td>30</td>
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<tr>
<td>FG 35/7000</td>
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<td>6 +/- 3</td>
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<td>125</td>
<td>40, 45, 50, 55</td>
<td>30</td>
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<tr>
<td>FG 35/7500</td>
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<td>6 +/- 3</td>
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<td>125</td>
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<td>30, 35</td>
<td>30</td>
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</tbody>
</table>

MATERIALS

Aluminium side plates with perforated aluminium mounting brackets.
Flexible high quality elastomeric insert,
long wearing, weather resistant, temperature resistant
(-30°C to +120°C), extensively resistant to oils, acids
and bitumen. Insert with smooth surface (no grooves).
Production length: 4 m
Standard colours: black, grey, brown, beige
SERIES FA 25/...
FOR COVERING JOINTS IN WALLS, CEILINGS AND FACADES – SURFACE FIXING

- double protection against water due to double sliding of the sealing insert within the metal profiles
- profile absorbs large movements with fold insert
- profile absorbs settlements by sliding of insert within the metal profile
- cellular rubber sealing strips to compensate for uneveness in the building surface

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Profile</th>
<th>Joint width mm</th>
<th>Total movement mm</th>
<th>Total width of profile mm</th>
<th>Installation depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA 25/ 300</td>
<td>30</td>
<td>10 +/- 5</td>
<td>111</td>
<td>12</td>
</tr>
<tr>
<td>FA 25/ 500</td>
<td>75</td>
<td>40 +/- 20</td>
<td>157</td>
<td>12</td>
</tr>
<tr>
<td>FA 25/ 700</td>
<td>100</td>
<td>50 +/- 25</td>
<td>182</td>
<td>12</td>
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<td>FA 25/ 900</td>
<td>150</td>
<td>100 +/- 50</td>
<td>232</td>
<td>12</td>
</tr>
<tr>
<td>FA 25/1300</td>
<td>200</td>
<td>120 +/- 60</td>
<td>282</td>
<td>12</td>
</tr>
<tr>
<td>FA 25/1400</td>
<td>250</td>
<td>180 +/- 90</td>
<td>332</td>
<td>12</td>
</tr>
<tr>
<td>FA 25/1800</td>
<td>350</td>
<td>200 +/-100</td>
<td>432</td>
<td>12</td>
</tr>
</tbody>
</table>

MATERIALS

Aluminium side plates with flexible high quality elastomeric insert for interior and exterior use (weather resistant)
Aluminium side plates with cellular rubber sealing strips.
Production length: 4 m, Standard colour: grey
Profile type FA 25/300 can also be supplied with a beige insert.
If longer lengths than 4 m are required, exact details of total joint lengths must be stated
The fold insert is then supplied in one piece up to approx. 50 m for the complete joint
Installation instructions: page 45
The profiles can also be supplied with holes for fixing with screws (distance 300 mm each).
SERIES FAE 25/...
FOR COVERING JOINTS IN WALLS, CEILINGS AND FACADES – SURFACE FIXING

- double protection against water due to double sliding of the sealing insert within the metal profiles
- profile absorbs large movements with fold insert
- profile absorbs settlements by sliding of insert within the metal profile
- cellular rubber sealing strips to compensate for uneveness in the building surface

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Profile</th>
<th>Joint width mm</th>
<th>Total movement mm</th>
<th>Total width of profile mm</th>
<th>Installation depth</th>
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<tbody>
<tr>
<td>FAE 25/400</td>
<td>30</td>
<td>10 +/- 5</td>
<td>69</td>
<td>12</td>
</tr>
<tr>
<td>FAE 25/600</td>
<td>75</td>
<td>40 +/- 20</td>
<td>114</td>
<td>12</td>
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<tr>
<td>FAE 25/800</td>
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<td>50 +/- 25</td>
<td>139</td>
<td>12</td>
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<td>FAE 25/1100</td>
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<td>100 +/- 50</td>
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<td>FAE 25/1500</td>
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<td>FAE 25/1600</td>
<td>250</td>
<td>180 +/- 90</td>
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<tr>
<td>FAE 25/2200</td>
<td>350</td>
<td>200 +/- 100</td>
<td>389</td>
<td>12</td>
</tr>
</tbody>
</table>

MATERIALS

Aluminium side plates with flexible high quality elastomeric insert for interior and exterior use (weather resistant)
Aluminium side plates with cellular rubber sealing strips.
Production length: 4 m, Standard colour: grey
Profile type FAE 25/400 can also be supplied with a beige insert.
If longer lengths than 4 m are required, exact details of total joint lengths must be stated
The fold insert is then supplied in one piece up to approx. 50 m for the complete joint
The profiles can also be supplied with holes for fixing with screws (distance 300 mm each).
SERIES FA 12/…
FOR COVERING JOINTS IN WALLS, CEILINGS AND FACADES – SURFACE FIXING

- Profile absorbs large movements with fold insert
- Profile absorbs settlements by sliding of insert within the metal profile
- Cellular rubber sealing strips to compensate for uneveness in the building surface
- Can also be used as corner version see drawings

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Profile</th>
<th>Joint width mm</th>
<th>Total movement mm</th>
<th>Total width of profile mm</th>
<th>Installation depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA 12/500</td>
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<td>FA 12/700</td>
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</tr>
<tr>
<td>FA 12/1800</td>
<td>350</td>
<td>200 +/- 100</td>
<td>407</td>
<td>12</td>
</tr>
</tbody>
</table>

MATERIALS

Aluminium side plates with flexible high quality elastomeric insert for interior and exterior use (weather resistant)
Aluminium side plates with cellular rubber sealing strips Production length: 4 m
Standard colour: grey Fold insert: up to 50 m length
Installation instructions: page 45 If longer lengths than 4 m are required, exact details of total joint lengths must be stated.
The fold insert is then supplied in one piece up to approx. 50 m for the complete joint.
The profiles can also be supplied with countersunk holes for fixing with screws (distance 300 mm each).
SERIES FAE 25/...
FOR COVERING JOINTS IN WALLS, CEILINGS AND FACADES – SURFACE FIXING

- profile absorbs large movements
- invisible fixing
- quick and easy installation due to snap-in-cover
- vandal-proof

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Profile</th>
<th>Joint width mm</th>
<th>Total movement mm</th>
<th>Total width of profile mm</th>
<th>Installation depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>WP 255/22</td>
<td>110</td>
<td>100 +/-50</td>
<td>255</td>
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<tr>
<td>WP 255/22 E2</td>
<td>205</td>
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<td>255</td>
<td>22</td>
</tr>
<tr>
<td>(corner version)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MATERIALS

Aluminium cover profiles with striated top surface
Production length: 3 m
Colour: aluminium
The profile can be supplied for other joint width on request. Details on request.
SERIES DF 35/12, DF 50/12
FOR JOINTS IN WALLS OF SANDWICH TYPE PLASTERBOARD

- flexible high quality elastomeric insert replaceable at any time
- same appearance of joints in floors and walls as the same type of insert used for both applications by using synca inserts of series fv 35/... respectively fp 55/...
- easy installation by means of nails or screws

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Profile</th>
<th>Joint width mm</th>
<th>Total movement mm</th>
<th>Total width of profile mm</th>
<th>Installation depth</th>
<th>Example for application</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF 35/12</td>
<td>30</td>
<td>10 +/-5</td>
<td>125</td>
<td>14</td>
<td>for installation under sandwich type</td>
</tr>
<tr>
<td>DF 50/12</td>
<td>50</td>
<td>16 +/-8</td>
<td>138</td>
<td>14</td>
<td>plaster board of 12,5 mm thickness</td>
</tr>
</tbody>
</table>

MATERIALS

Aluminium side plates with flexible high quality elastomeric insert, long wearing, weather resistant, temperature resistant (-30°C to +120°C), extensively resistant to oils, acids and bitumen.
Production length: 3 m, Standard colours: black, grey, light beige
Profile DF 35/12 additionally brown
These profiles are also available as corner versions (see page 36–37)
The profiles are also available with smooth insert;
DFG 35/12, total movement 6 mm +/- 3 mm respectively
DFG 50/12, total movement 8 mm +/- 4 mm.
Series KLEMM - FIX
for Covering Joints in Walls, Ceilings and Facades - Surface Fixing

Quick and easy installation
Anchoring by special steel spring clips
Perfect optical appearance and straightness by continuous steel insert
Secure and permanent fixing by close spacing of clips 20cm each

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Profile</th>
<th>Joint width mm</th>
<th>Width of Cover mm</th>
<th>Depth of Joint min.</th>
<th>Standard Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>KF 55/1530</td>
<td>15-35</td>
<td>50</td>
<td>40</td>
<td>grey</td>
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<td>KFE 55/1531</td>
<td>20-35</td>
<td>47</td>
<td>40</td>
<td>grey</td>
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<tr>
<td>KF 55/3560</td>
<td>35-60(15-35)</td>
<td>75</td>
<td>50</td>
<td>grey</td>
</tr>
<tr>
<td>KFE 55/3561</td>
<td>40-60</td>
<td>73</td>
<td>50</td>
<td>grey</td>
</tr>
</tbody>
</table>

MATERIALS

Flexible high quality elastomeric cover, long wearing, weather resistant, temperature resistant (-30°C to +120°C), extensively resistant to oils, acids and bitumen, with steel insert and stainless steel spring clips (5 spring clips will be supplied per running meter). Production length: 20 m

KFE 55/1531 with Special k2
Series KF 250/..., KFE 250/... KLEMM - FIX
for covering joints in Walls, Ceilings and Façades - Surface Fixing

Quick and easy installation
Permanently anchoring by special steel spring clips
Very long durability by using stainless steel spring clips

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Profile</th>
<th>Joint width mm</th>
<th>Width of Cover mm</th>
<th>Depth of Joint min.</th>
<th>Material</th>
<th>Standard Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>KF 250/30</td>
<td>15-35</td>
<td>50</td>
<td>40</td>
<td>Aluminium</td>
<td>Aluminium (natural)</td>
</tr>
<tr>
<td>KFE 250/31</td>
<td>15-35</td>
<td>4</td>
<td>40</td>
<td>Aluminium</td>
<td>Aluminium (natural)</td>
</tr>
<tr>
<td>KF 250/70</td>
<td>15-35</td>
<td>70</td>
<td>40</td>
<td>Aluminium</td>
<td>Aluminium (natural)</td>
</tr>
<tr>
<td>KFE 250/71</td>
<td>15-35</td>
<td>50</td>
<td>40</td>
<td>Aluminium</td>
<td>Aluminium (natural)</td>
</tr>
<tr>
<td>KF 250/100*</td>
<td>15-35</td>
<td>100</td>
<td>40</td>
<td>Aluminium</td>
<td>Aluminium (natural)</td>
</tr>
<tr>
<td>KFE 250/101**</td>
<td>35-60</td>
<td>75</td>
<td>70</td>
<td>Aluminium</td>
<td>Aluminium (natural)</td>
</tr>
<tr>
<td>KF 250/150**</td>
<td>35-60</td>
<td>150</td>
<td>70</td>
<td>Aluminium</td>
<td>Aluminium (natural)</td>
</tr>
<tr>
<td>KF 250/170**</td>
<td>35-60</td>
<td>170</td>
<td>70</td>
<td>Aluminium</td>
<td>Aluminium (natural)</td>
</tr>
</tbody>
</table>

MATERIALS

Aluminium cover profile with stainless steel spring clips
Production length: 3 m
4 spring clips will be supplied per length of 3 m, 6 spring clips are provided
for KF 250/100 and KF 250/150, 8 spring clips are provided for KF 250/170
SERIES KF 250/..., KFE 250/... KLEMM-FIX
FOR COVERING JOINTS IN WALLS, CEILINGS AND Façades – SURFACE FIXING
**Series RD-SJ-RJ**

A complete series of profiles with a round or square section which can be used also as joining edges to the steps of the staircase. Ideal to contour the tiled steps, they perfectly protect the corner edge. Conceived for most domestic and commercial stair coverings purposes. End caps and special pieces available for a perfect job. Vertical anchorage with dovetail internal cavity groove. Patented system. Illustrated scale dimension 1:1

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**ROUNDTEC RD-ON Natural Brass**  
Due to the natural properties of brass, it ensures a high tolerance to mechanical impacts and in areas subject to chemical presence. It still contributes to maintain an elegant finish to the coverings applied.  
Material: Extruded Natural brass  
Length: 2.70 metres

**SQUAREJOLLY SJ-IL Polished Stainless Steel AISI 304 - DIN 1.4301 and AISI 316**  
Stainless steel can ensure a high tolerance against most diluted chemical products therefore it is ideal for food industry environments, hospitals and laboratories. The AISI 316 choice is recommended as standard for salty environments and where chlorine is present. Available in top brushed effect code IS.  
Material: Polished Stainless Steel AISI 304 Stainless Steel AISI 316  
Length 2.70 metres

---

**ROUNDEJOLLY RJ-IL Polished Stainless Steel AISI 304 - DIN 1.4301 and AISI 316**  
Stainless steel can ensure a high tolerance against most diluted chemical products therefore it is ideal for food industry environments, hospitals and laboratories. The AISI 316 choice is recommended as standard for salty environments and where chlorine is present. Available in top brushed effect code IS.  
Material: Polished Stainless Steel AISI 304 Stainless Steel AISI 316  
Length 2.70 metres
STAIRTEC FI is a technical profile especially designed to edge ceramic or porcelain stoneware tile steps. It is highly resistant and is an economic solution to the “special ceramic edge piece”. Although made of steel it can still give a pleasant look to the staircase, especially in public or commercial areas. STAIRTEC FI can handle intense pedestrian transit and maintains its safety feature thanks to the carborundum anti-slip strips on its surface. Illustrated scale dimension 1:1

STAIRTEC FI-IL Polished Stainless Steel AISI 304 -DIN 1.4301
Stainless steel profile, AISI 304 standard, ensures good tolerance to most of diluted chemicals or detergents present in laboratories, food processing plants, commercial kitchens, slaughter houses, breweries and public toilets. The anti-slip insert is supplied separately as it needs to be applied on the FI profile already installed, on a clean and dry surface.

Material: Polished Stainless Steel AISI 304
Length: 2.70 metres
STAIRTEC FL is a technical rounded off stair nosing profile with particular decorative design which helps create a very distinctive feature edge finish to the stair case. The vertical edge trim helps cover cutting imperfections as well to blend into other possible future covering material of the stairs. It truly looks like a “special piece” edge finish yet it is solid and long lasting. Its top grooved surface gives the stair the sufficient safety feature. This profile is suitable for both domestic and commercial environments.

Illustrated scale dimension 1:1

STAIRTEC FL-ON Natural Brass
This brass profile is developed with prime choice raw material in order to guarantee the tolerance and endurance to chemical and mechanical solicitations. It is primarily applied on both indoor and outdoor floors and can bear intense transit areas as well as for detailing elegant residential coverings. Through contact with moisture or corrosive media, brass may oxidize on exposed surfaces. This situation can be easily solved by buffing the product with a conventional polisher to return to its original shine.

Material: Natural brass extruded
Length: 2,70 metres

STAIRTEC FL-AS Silver Anodised Aluminium
This profile has a silver coating and is suitable for both indoor or outdoor application with high tolerance to weather agents but less to mechanical impact and abrasion. During installation, excess adhesive and grout should be removed immediately to avoid stains.

Material: Extruded Anodised aluminium
Length: 2,70 metres
Colour: Silver
Decorative Stainless Steel Stair Nosing

STAIRTEC FL is a technical stair nosing profile with particular decorative design which helps creating a very distinctive feature edge finish to the stair case. The vertical edge trim helps cover cutting imperfections as well to blend into other possible future covering material of the stairs. It truly looks like a “special piece” edge finish yet it is solid and long lasting. This profile is suitable for both domestic and commercial environments. Illustrated scale dimension 1:1

STAIRTEC FL-IL Polished Stainless Steel AISI 304 - DIN 1.4301
Stainless steel profile. It ensures very good tolerance to most of diluted chemicals. Suitable also to contour kitchen tops and shower cubicles..
Material: Polished Stainless Steel AISI 304
Length: 2.70 metres
STAIRTEC FL-ON Natural Brass
Thanks to the natural properties of brass, it ensures a high tolerance to mechanical impact and in areas subject to chemical presence. It still contributes to maintain an elegant finish to the coverings applied. Through contact with moisture or chemicals brass may oxidize on the exposed surface but the problem is easy to solve by just buffing the profile with a conventional polishing product.
Material: Extruded Natural brass
Length: 2,70 metres
Anchorage improved on the vertical side

STAIRTEC FL-AS Silver Anodised Aluminium
This profile has a silver coating and is suitable for both indoor or outdoor application with high tolerance to weather agents but less to mechanical impact. During installation excess adhesive and grout should be removed immediately to avoid stains. The exposed surface may change colour or darken in time. Where higher stresses are involved the use of brass profiles is recommended.
Material: Extruded Anodised aluminium
Colour: Silver
Length: 2,70 metres
Anchorage improved on vertical side
“Clip System” Stair Nosing Profile for Ceramic Laid Steps

Ceramic tile laying jobs may sometimes be quite delicate with problems which differ from standard applications such as linear wall tiling. Stairs, for instance, to be covered with the same tiles as the floor may require non-standard spacing to match different heights from step to connecting floor for example. The STAIRTEC product range is conceived to face these adjustment problems by featuring valid and lasting technical solutions. Patented system.

Illustrated scale dimension 1:1

STAIRTEC FS 30 A* Aluminium + Synthetic insert

“Clip system” working technology has been conceived to allow the layer to meet the different requirements of thickness for the various floorcovering materials yet with a limited number of modular elements, reducing then stock commitments.

The system combines an aluminium base section- equipped with an anti-slip insert- with a profile TRIMTEC- chosen with the desired height which works as a fixing flange. The system works even with the off-cuts of TR series with a consequent economical advantage.

To choose the correct height of trim to be used, subtract 2 mm from the tile thickness you need to match with. Example: for 10 mm tiles, insert TRIMTEC H = 8 mm into the basic module STAIRTEC FS, as STAIRTEC FS will increase the overall height of the assembled section by 2 mm. The required 10mm thickness is then achieved.

The synthetic resin insert can be replaced in case of damage or wear and tear.

CHARACTERISTICS

Base profile in aluminium, with an anti-slip synthetic insert strip inserted in base. TRIMTEC flange profile is not included as it is ordered separately based upon the desired height to match the H reduced by 2 mm). Available endplugs FST height 8/10/12,5 mm.

Material: Natural aluminium extruded Synthetic Resinflex insert

Length: 2,70 metres
Width: 30 mm

<table>
<thead>
<tr>
<th>H=mm</th>
<th>Art.</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>FS 30 A 23</td>
<td>CEMENT GREY</td>
</tr>
<tr>
<td>30</td>
<td>FS 30 A 32</td>
<td>DARK BEIGE</td>
</tr>
<tr>
<td>30</td>
<td>FS 30 A 51</td>
<td>BLACK GRAPHITE</td>
</tr>
<tr>
<td>30</td>
<td>FS 30 A 53</td>
<td>YELLOW</td>
</tr>
<tr>
<td>4,5</td>
<td>TR 45 AN</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>TR 60 AN</td>
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<tr>
<td>8</td>
<td>TR 80 AN</td>
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<td>TR 175 AN</td>
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<tr>
<td>20</td>
<td>TR 200 AN</td>
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</tbody>
</table>
Ceramic tile laying jobs may sometimes be quite delicate with problems which differ from standard applications such as linear wall tiling. Stairs, for instance, to be covered with the same tiles as the floor may require non standard spacing to match different heights from step to connecting floor for example. The STAIRTEC product range is conceived to face these adjustment problems by featuring valid and lasting technical solutions. Illustrated scale dimension 1:1

STAIRTEC FSF-A* Aluminium + Synthetic insert width 30 mm
Base profile in aluminium with an anti-slip synthetic insert strip already mounted which can be replaced in case of damage or wear.
End caps FST available for each height 8 / 10 / 12.5 mm.

Material: Extruded Natural Aluminium
Synthetic Resinflex insert
Length: 2,70 metres
Width: 30 mm
Colours*: grey, beige, black, yellow

<table>
<thead>
<tr>
<th>H (mm)</th>
<th>Art.</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>FSF 80 A*</td>
<td>23 / 32 / 51 / 53</td>
</tr>
<tr>
<td>10</td>
<td>FSF 100 A*</td>
<td>23 / 32 / 51 / 53</td>
</tr>
<tr>
<td>12.5</td>
<td>FSF 100 A*</td>
<td>23 / 32 / 51 / 53</td>
</tr>
</tbody>
</table>
STAIRTEC series proposes technical effective, practical and long-lasting solutions for the stairnosing finishes, according to the most recent UE safety standards which provide proper anti-slip elements. “Riser cover” device, patented system. Illustrated scale dimension 1:1

**STAIRTEC FSL-A* Aluminium + Synthetic insert width 55 mm**
Base profile in aluminium with an anti-slip synthetic insert strip already mounted which can be replaced in case of damage or wear.
End caps FSLT available for each height 8 / 10 / 12,5 mm
Material: Extruded Natural Aluminium
Synthetic Resinflex insert
Length: 2,70 metres
Width: 55 mm
Colours*: grey, beige, black, yellow.

**STAIRTEC FSA 50 AS Anodised Aluminium Silver**
Optional riser in anodised aluminium for use with stair edging base profile FSL, to allow improved step edge visibility or partially covering the riser, in line with the most recent accessibility standards.
Material: Extruded Anodised Aluminium
Length: 2,70 metres
Height: 50 mm
Colour: Silver

**STAIRTEC FSLT End caps**
End caps to complete the profile in a proper and neat way
Material: Polypropylene.

<table>
<thead>
<tr>
<th>H=mm</th>
<th>Art.</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>FSL 80 A*</td>
<td>23 / 32 / 51 / 53</td>
</tr>
<tr>
<td>10</td>
<td>FSL 100 A*</td>
<td>23 / 32 / 51 / 53</td>
</tr>
<tr>
<td>12,5</td>
<td>FSL 125 A*</td>
<td>23 / 32 / 51 / 53</td>
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</tbody>
</table>

<table>
<thead>
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<th>Art.</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
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<td>FSA 50 AS</td>
<td>SILVER</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>END CAP</td>
<td>FS LT + COLOUR</td>
</tr>
</tbody>
</table>
STAIRTEC FW is a stair nosing in natural solid wood, with a supporting angular structure in perforated aluminium to improve its fixing and stability. Its simple shape and size make it a finish suitable for all kind of environments, either modern or traditional. Ideal for step applications in domestic areas, it performs well also to contour tiled kitchen tops.
Illustrated scale dimension 1:1

**STAIRTEC FW - RON Oak - natural finish**
Profile in natural solid wood with support in perforated aluminium for gluing and reinforcing.
The profile is supplied pre-assembled. Prior to installation the wood element should be treated with a suitable coating or protective oil to achieve the required colour.

Material: Oak - natural finish
Length: 2.70 metres
UNI-STAIR EA

ALUMINUM STAIR NOSING
UNI-STAIR EA is an aluminum profile for stairs. It may be fixed either with screws or adhesive glue. It is meant to satisfy both indoor and outdoor stair nosing situations as it bears high tolerance against oxidation. This profile is developed with a top grooved surface and is also supplied with a chamfered edge to better ensure the safety step.

SIZE:
WIDTH: 100 MM
HEIGHT: 35 MM
THICKNESS: 6 MM
LENGTH: 6 MTR

TECHNICAL PROFILE ALUMINUM:
Composed of a primary alloy particularly suitable for more complex extrusion processes, it offers a high general tolerance along with a quality top at a natural state for further finish treatments.

ANODIZED ALUMINUM:
Anodic oxidation process against corrosion generated by atmospheric agents not associated with galvanization processes. Profiles are previously treated so as to become uniformly mat and subsequently electro-chemically oxidized and colored in the standard Silver.

UNI-STAIR EA is an aluminum profile for stairs. It may be fixed either with screws or adhesive glue. It is meant to satisfy both indoor and outdoor stair nosing situations as it bears high tolerance against oxidation. This profile is developed with a top grooved surface and is also supplied with a chamfered edge to better ensure the safety step.
SIZE:
WIDTH: 42 MM
HEIGHT: 22 MM
THICKNESS: 2 MM
LENGTH: 6 MTR
MATERIAL: EXTRUDED ANODIZED ALUMINUM

TECHNICAL PROFILE ALUMINUM:
Composed of a primary alloy particularly suitable for more complex extrusion processes, it offers a high general tolerance along with a quality top at a natural state for further finish treatments.

ANODIZED ALUMINUM:
Anodic oxidation process against corrosion generated by atmospheric agents not associated with galvanization processes. Profiles are previously treated so as to become uniformly mat and subsequently electrochemically oxidized and colored in the standard Silver.
PARTITIONS AND LOCKERS

Toilet Partitions and Lockers
**BETA TOILETS FROM BETA CONTECH**

Beta Toilets from Beta Contech 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 come in a stainless steel finish; Gravity hinges, indicators Rosette, Lock set, Knob, Coat Hook, Pedestal leg, tissue holder

- TOILET PARTITIONS
- LOCKERS

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## TECHNICAL DETAILS

**COMPACT LAMINATES**

Compact Laminate is a high-pressure, load bearing decorative laminate which is resistant to atmospheric and chemical agents. It has an inner core of celluloid fibers impregnated with thermosetting resins, and a surface coating of the same fibers, decorated and impregnated by primary amino plastic resins. It is resistant to extreme temperatures, chemicals, stains and scratches.

<table>
<thead>
<tr>
<th>Specification</th>
<th>MERINO HGS</th>
<th>MERINO VGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness( mm)</td>
<td>1.0 to 1.5</td>
<td>0.7 to 0.9</td>
</tr>
<tr>
<td>Thickness</td>
<td>+5%</td>
<td>+5%</td>
</tr>
<tr>
<td>Tolerance</td>
<td>-0%</td>
<td>- 0%</td>
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<tr>
<td>Appearance</td>
<td>No ABC Defect</td>
<td>No ABC Defect</td>
</tr>
<tr>
<td>Surface Wear Resistance (Cycle)</td>
<td>&gt;400</td>
<td>&gt;200</td>
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<tr>
<td>Boiling Water Resistance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thickness Increase</td>
<td>8%</td>
<td>10%</td>
</tr>
<tr>
<td>Weight Increase/ max</td>
<td>6.5%</td>
<td>8%</td>
</tr>
<tr>
<td>High Temperature Resistance</td>
<td>Slight Effect</td>
<td>Slight Effect</td>
</tr>
<tr>
<td>Stain Resistance Reagents 1&amp;2</td>
<td>No Effect Slight Effect</td>
<td>Slight Effect Slight Effect</td>
</tr>
<tr>
<td>Stain Resistance Reagents 3&amp;4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small Dia.ball Resistance</td>
<td>&gt; 22 N</td>
<td>&gt; 17.5 N</td>
</tr>
<tr>
<td>Dimensional Stability MD CD</td>
<td>0.35% (max) 0.7 5% (max)</td>
<td>0.5% (max) 0.9% (max)</td>
</tr>
<tr>
<td>Specific Gravity gm/cm³</td>
<td>1.38 to 1.45</td>
<td>1.30 to 1.40</td>
</tr>
</tbody>
</table>

HGS = Horizontal Grade Standard  
VGS = Vertical Grade Standard
**Machining**

To cut Phenolic always use well-sharpened, hard tools (tungsten carbide /Widia). Cool down the tool at all times during the cutting to prevent heating.

When cutting panels, take into consideration the following:
1. Adjust the cutting blade well so it enters fully from the panel side.
   - Table-mounted saw: face the visible side of the panel upwards.
   - Hand-held saw: face the visible side of the panel downwards.

2. Height of the cutting blade:
   For clean cut edges of the exposed surface, adjust the saw blade so that it shows up around 1 - 2 cm from the panel sawn surface.

**Main features and characteristics**

- Good chemical resistance (sodium hyd-oxide, vinegar, 502, urine)
- Impact resistance
- Decorative
- Resistant to water and steam
- Easy to clean
- Heat insensitive
- High dimensional stability
- No dust attraction
- Ease of installation
- Limited flammability and smoke emission in case of fire (EGF)
- Scratch proof
- Acceptable bending ability
- Non-corrosive

**Specifications**

Height : 2000mm Including 150mm floor clearance
Door Size : According to Site Requirement
Ironmongeries: Gravity Hinges, Indicator Rosette, Lock Set, Knob, Coat Hook, Pedestal Leg, Tissue Holder
Compact Grade Laminate - 12, 13 mm

- Solid black phenol core composed of layers of resin impregnated, on both sides with melamine resin décor paper at a very high pressure
- Impact Resistance - High performance black core offers exceptional resistance to impact and moisture
- Water proof - suitable for use in wet areas and humid conditions where hygiene and case of maintenance is essential
- Fire resistance - Passes BS 476 Class
- Smooth, non-porous surface which will NOT support bacteria or attract dust
- Color Change - Passes Xenon Arc Wool Test – Grade 6. No change except when directly exposed to sunlight for 180 days
- Fixture - The divider walls, pilasters are affixed to Full Length Aluminum “U” profile in our Standard

**Special Features of BETA**

- Retains brilliant finish even after many years of demanding use
- Extremely strong, impact resistant and flexible. It will not become hard and brittle, or soft and elastic.
- Smooth, non-porous surface which WILL NOT support bacteria or attract dust
- Water and Moisture: Water proof except in stagnant water. Extensively used for Shower Cubicles
- Staining, Graffiti and Bacteria growth: Top layer Coated with melamine resin of high concentration. No pores on top Surface hence non-absorbent.
- Scratching: Single Smooth entity with very hard melamine top
- Cigarette Bum: Passes highest grade “5” as per ISI Specification. i.e. burning of cigarette leaves no visible mark on the compact.
- Impact: Has high density therefore vandal proof
- Fire: Passes BS 476 Class I
- Color Change: Passes the Xenon Arc Wool test- Grade 6. No change except when directly exposed to sunlight for 180 days
Fixtures
The divider walls, Pilasters are affixed to Full length aluminum “U” profile in our Standard installation. We DO NOT use Simple “L” angles.

Classifications
Phenolic comes in standard grade or with special characteristics depending on the purpose of use according to the following classifications:
• CGS: Compact laminate, General purpose or moderate use, Standard grade
• CGF: Compact laminate, General purpose or moderate use, Flame-retardant grade

Typical Applications for (CGS & CGF)
• Hospitals / Infirmaries / Clinics: medical equipment tables, food trolleys for patients. hospital kitchens. interior cladding for the walls of rooms requiring high degree of disinfection.
• Nurseries / Schools: Classroom tables and seats.
• Pools / Saunas.
• Airports / Train stations.
• Kitchens: food preparation tables and skin surroundings.
• Food factories.
• Laboratories: laboratories tables.
• Bathrooms and Fitting rooms: due to these boards moisture resistant traits.
• Cubicles and partitions
## LOCATIONS

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**ENGINEERING, DESIGN, MARKETING & COMMUNICATION**

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<thead>
<tr>
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<th>Fax</th>
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</thead>
<tbody>
<tr>
<td>Unitech Deutschland GmbH</td>
<td>Stuttgart</td>
<td>+49 711 6868 7222</td>
<td>+49 711 6868 7223</td>
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<td>Lebanon</td>
<td>+961 1 841 155</td>
<td>+961 1 841 156</td>
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<td></td>
<td>Multi-d Beirut</td>
<td>+961 1 841 155</td>
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