

Stage Floor Panels



Product Description

Durable, extremely Light, Very Strong, Resistant panels for permanent and portable stages

- 100% environmentally friendly, impact resistant stage panels produced in different dimensions, colors and finishes;
- Panels consisting of glass reinforced thermoplastic skin, polypropylene honeycomb core and produced using a continuous process;
- Currently in use on stages throughout North America .

Finishing

- Product available in white or black;
- Paintable surface possible (on order);
- Shiny or matte surface;

Product Benefits

- Extremely light panel (52.48 lb/ 4ft x 8ft x1") (23.82 kg/1.22m x 2.43m x 25mm);
- Easily and rapidly installed and removed;
- Very high impact resistance

- Smooth or anti-slip surface;
- Very high resistance to concentrated or uniform loads;
- Excellent durability: resistant to fatigue, moisture, corrosion and other environmental and chemical factors;
- Excellent thermal resistance (insulation against cold floors);
- 100% environmentally friendly; Non-toxic and entirely recyclable;
- Standard or custom based production, can be cut and predrilled to customer specification;
- Can be used on different bases (concrete, wood, etc.) or on framing;
- Uniform quality in unlimited length: No gaps, cracks, holes, breaks, bumps or other obstructions.
- Multi-use;
- Maintenance-free;
- Withstands wide temperature variations, from -40° F to 212° F (-40°C to 100° C);

Dimensions

- Available in unlimited length, up to 4ft (1.22m) wide and with thickness varying from ¼"(6mm) to 2"(50 mm).

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Physical and mechanical properties of skin material for a .078in. (2mm) thick:

| Standard | Test Type | Mean Value |
|----------------------------------|--|---|
| ASTM D 638-96 | Glass content | 60% |
| | Young Modulus | 1885000psi (13000 Mpa) |
| | Tension strength | 43500psi (300 Mpa) |
| | Tensile elongation | 2,9% |
| ASTM D 790-96 | Flexural Tangent Modulus | 1740000psi (12000 Mpa) |
| | Flexural strength | 39875psi (275 Mpa) |
| ASTM 695-96 (modified) | Compressive strength | 20300psi (140 Mpa) |
| ASTM D 256-93 | Notched Izod | 29.98 ft-lb /in (1600J/M) |
| ASTM D 3763-95 (4 layers) | Impact multi-axial 86.61in / sec (2.2 m/sec) | 28.76ft-lb (39 J) |
| | Multi-axial impact 86.61in / sec (2.2 m/sec) | 31.72ft-lb (43 J) |
| ASTM D 792-91 | Specific gravity | 1,49 |
| ASTM D 2240-97 | Shore ' D' hardness | 77 |
| ASTM D 3763-95 | Heat Deflection | 311 ° F (155 °C) |
| ASTM G26 | Ultra-violet Test | no important loss of mechanical and physical properties noted |
| ASTM G7-96 et ASTM G24-94 | Ultra-violet Test (Onsite test in Arizona) | no important loss of mechanical and physical properties noted. Very little color change |

Physical and mechanical properties of core material:

| Standards | Test Type | Mean Value |
|--------------------|---------------------|---|
| ASTM D C365 | Compression | 235psi (1.62MPa) (typical) |
| ASTM C273 | Shear | 75psi (0.517MPa) (typical) |
| ASTM C297 | Flatwise Tensile | 100psi (0.689MPa) (typical) |
| | Moisture | Not affected, See details |
| | Thermal insulation. | Plascore PP Honeycomb: R=2.5 |
| | Chemical resistance | Unaffected by most chemicals such as alcohols, organic and inorganic acids, alkalines, esters and ketones |

