FIBERGLASS FLOORING
AND DECKING SYSTEMS

SAFPLANK® Fiberglass Plank System

SAFDECK® Fiberglass Decking System
SAFPLANK® Fiberglass Plank System

Features
SAFPLANK® is a high strength system of fiberglass planks designed to interlock to form a continuous solid surface. SAFPLANK® is intended to replace wood, aluminum or steel planks in environments where corrosion or rotting creates costly maintenance problems or unsafe conditions.

SAFPLANK® panels are:
• Corrosion Resistant
• Strong
• Easy to Maintain
• Non-sparking
• Easy to Install
• Lightweight
• Low in Conductivity
• Interlocking

Sizes
SAFPLANK® is available in 2” deep panels in both 12” and 24” widths and in a slotted version to offer flexibility in design. Stock panels are available in 20’ and 24’ lengths. Other lengths are available upon request. SAFPLANK® may be ordered with a smooth surface for non-pedestrian applications.

Materials of Construction
SAFPLANK® is a composite of fiberglass reinforcements (glass and mat) and a thermoset resin system. The pultrusion process is used to produce the panels.

The standard resin system is a slate gray fire retardant polyester resin meeting the requirements of Class 1 rating of 25 or less per ASTM E-84 and the self-extinguishing requirements of ASTM D-635. The resin is UV inhibited and the composite includes a surface veil on all exposed surfaces for enhanced corrosion and UV protection. Other resins and colors are available upon request.

Applications
SAFPLANK® is designed to be used for flooring and covers. Typical applications include:
• Cooling Tower Decking
• Temporary Flooring
• Odor Control Covers
• Windwalls
• Roofing Walkways
• Cellular Wall Panels
• Concrete Forming Systems

SAFPLANK® panels are used as tank covers at the Spring Creek Trout Hatchery in Lewistown, Montana. The lightweight panels allow easy access to the tanks and provide a safe walking surface for the staff.

Odor control covers at a wastewater treatment plant in Smithfield, Rhode Island, will withstand the corrosive environment to provide years of trouble-free service.

(above) SAFPLANK®, when turned upside down, serves as an excellent concrete forming system in applications where corrosion and weight are construction concerns.

(right) SAFPLANK® is offered in a slotted version to facilitate drainage where runoff is a problem. Slots are placed in a longitudinal or transverse direction to the plank support to meet ADA standards.
## Mechanical Properties

### SAFPLANK® Load / Deflection Data (Right Side Up Position)

<table>
<thead>
<tr>
<th>SPAN</th>
<th>12&quot; SAFPLANK®</th>
<th>24&quot; SAFPLANK®</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$l_{12} = 1.69$ in.$^4$, wt = 2.6 lb/in. ft. (gritted)</td>
<td>$l_{14} = 3.10$ in.$^4$, wt = 5.1 lb/in. ft. (gritted)</td>
</tr>
<tr>
<td></td>
<td>500 (u=2394)</td>
<td>1000 (u=4788)</td>
</tr>
<tr>
<td>24&quot; (610 mm)</td>
<td>$\Delta u$</td>
<td>$\Delta c$</td>
</tr>
<tr>
<td>24&quot; (914 mm)</td>
<td>$\Delta u$</td>
<td>$\Delta c$</td>
</tr>
<tr>
<td>48&quot; (1219 mm)</td>
<td>$\Delta u$</td>
<td>$\Delta c$</td>
</tr>
<tr>
<td>72&quot; (1829 mm)</td>
<td>$\Delta u$</td>
<td>$\Delta c$</td>
</tr>
</tbody>
</table>

### SAFPLANK® Load / Deflection Data (Upside Down Position)

<table>
<thead>
<tr>
<th>SPAN</th>
<th>12&quot; SAFPLANK®</th>
<th>24&quot; SAFPLANK®</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$l_{12} = 1.69$ in.$^4$, wt = 2.6 lb/in. ft. (gritted)</td>
<td>$l_{14} = 3.10$ in.$^4$, wt = 5.1 lb/in. ft. (gritted)</td>
</tr>
<tr>
<td></td>
<td>500 (u=2394)</td>
<td>1000 (u=4788)</td>
</tr>
<tr>
<td>24&quot; (610 mm)</td>
<td>$\Delta u$</td>
<td>$\Delta c$</td>
</tr>
<tr>
<td>36&quot; (914 mm)</td>
<td>$\Delta u$</td>
<td>$\Delta c$</td>
</tr>
<tr>
<td>48&quot; (1219 mm)</td>
<td>$\Delta u$</td>
<td>$\Delta c$</td>
</tr>
<tr>
<td>72&quot; (1829 mm)</td>
<td>$\Delta u$</td>
<td>$\Delta c$</td>
</tr>
</tbody>
</table>

Maximum deflections shown are based on a deflection of approximately L/100. To calculate the maximum deflection for a simply supported continuous beam spanning two equal lengths with the uniform or concentrated load on one span only, multiply the above deflections by 0.71.

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**Accessories**

Two hold-down connections are available for installing SAFPLANK®. Both hold-downs can be used with either 12" or 24" wide SAFPLANK®.

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**Innovative Solutions in Fiberglass**

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**1/4" x 3" BOLT ASSEMBLY**

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**316 S.S. SURFACE MOUNTED HOLD DOWN**

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**1/4" x 1-1/4" CARRIAGE BOLT ASSEMBLY**

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**316 S.S. INSERT HOLD DOWN**
SAFDECK® Fiberglass Decking System

SAFDECK® is a system of 24" wide fiberglass panels designed to overlap for a continuous solid surface. SAFDECK® is intended to replace wood, aluminum or steel decking in environments where corrosion or rotting creates costly maintenance problems or unsafe conditions. Low in conductivity and non-sparking, SAFDECK® provides safe walkways in applications near electrical lines.

Typical applications include:

- Cooling Tower Decking
- Temporary Flooring
- Odor Control Covers
- Wind Walls
- Roofing Walkways
- Cellular Wall Panels

Materials of Construction

SAFDECK® is a high strength, one-piece, overlapping panel system. Manufactured of pultruded fiberglass reinforced polymer (FRP), SAFDECK® is particularly well suited for corrosive environments.

The standard resin system is a slate gray fire retardant polyester resin meeting the requirements of Class 1 rating of 25 or less per ASTM E-84 and the self-extinguishing requirements of ASTM D-635. The resin is UV inhibited and the composite includes a surface veil on all exposed surfaces for enhanced corrosion and UV protection. Other resins and colors are available upon request.

Availability

SAFDECK® is available in 1-1/8" deep panels in 24" widths. The decking system is designed to be a one-for-one replacement for plywood and has a 60-pound per square foot rating at 3-foot spans with less than L/180 deflection.

All panels are gritted and are available in 20' and 24' lengths. Other lengths are available upon request. SAFDECK® may be ordered with a smooth surface for non-pedestrian applications.

SAFDECK® Load / Deflection Data

<table>
<thead>
<tr>
<th>SPAN LENGTH (l)</th>
<th>24&quot; SAFDECK®</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 (u=1197) (c=365)</td>
<td>.015 .030 .036 .044 .059 .119 .179</td>
</tr>
<tr>
<td>50 (u=2394) (c=730)</td>
<td>(.38) (.76) (.91) (1.12) (1.50) (3.02) (4.55)</td>
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<tr>
<td>60 (u=2873) (c=876)</td>
<td>.012 .023 .029 .036 .048 .096 .143</td>
</tr>
<tr>
<td>75 (u=3591) (c=1095)</td>
<td>(.30) (.58) (.74) (.91) (1.22) (2.44) (3.63)</td>
</tr>
<tr>
<td>100 (u=4788) (c=1460)</td>
<td></td>
</tr>
<tr>
<td>200 (u=9576) (c=2920)</td>
<td></td>
</tr>
<tr>
<td>300 (u=14364) (c=4380)</td>
<td></td>
</tr>
</tbody>
</table>

Maximum deflections shown are based on a deflection of approximately L/100. To calculate the maximum deflection for a simply supported continuous beam spanning two equal lengths with the uniform or concentrated load on one span only, multiply the above deflections by 0.71.

- u = Uniform load in lbs/ft² (N/m²).
- Δu = Typical deflection under the uniform load in inches (mm)
- c = Concentrated load in lbs/ft of width (N/m of width)
- Δc = Typical deflection under concentrated load in inches (mm)

Innovative Solutions in Fiberglass

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