SAFDECK®
FIBERGLASS DECKING SYSTEM FOR COOLING TOWER FAN DECKS AND HOT WATER BASINS

• Rot Resistant
• Strong
• Lightweight
• Easy to Install
• Overlapping Joints
• Easy to Maintain
• Non-Conductive
• Fire Retardant
• Slip Resistant

Strongwell’s SAFDECK® is a specially designed system of 24” wide, slip resistant, fiberglass panels that overlap for a continuous solid surface. The profile height of 1-1/8” is specifically designed to be used as a permanent replacement for plywood on cooling tower fan decks. SAFDECK® can also be supplied with a smooth surface for use in hot water basin applications. The quick screw-down construction of the SAFDECK® system ensures rapid installation and reduced field labor costs. Compare the features of SAFDECK® to plywood on the reverse side.
### SAFDECK®  VS.  PLYWOOD

<table>
<thead>
<tr>
<th><strong>COMPARE!</strong></th>
<th>SAFDECK®</th>
<th>VS.</th>
<th>PLYWOOD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ROT RESISTANCE</strong></td>
<td>Superior resistance to a broad range of chemicals. Virtually unaffected by moisture or immersion in water. Surfacing veil and UV additives create excellent weatherability.</td>
<td></td>
<td>Can warp, rot and decay from exposure to moisture, water and chemicals. Preservative treatment required to increase rot resistance.</td>
</tr>
<tr>
<td><strong>STRENGTH/WEIGHT</strong></td>
<td>FRP is stronger and has higher flexural strength than timber. FRP has significantly higher strength-to-weight ratio.</td>
<td></td>
<td>Significantly heavier when wet.</td>
</tr>
</tbody>
</table>
| **FIRE RESISTANCE** | ASTM D635 — Self Extinguishing  
ASTM E84 — Flame Spread of 25 or less | | Requires CFB overlay for fire protection. |
| **FINISHING AND COLOR** | Pigments added to the resin provide color throughout the part. Special colors available. | Must be primed and painted for color. Repainting may be required to maintain color. |
| **ENVIRONMENTAL IMPACT** | Lower maintenance and longer product life often equals lower overall costs. | | Lower initial cost. |
| **SLIP RESISTANT** | Non-skid grit surface is standard. | | Requires FRP overlay or special coating. Difficult to apply and may actually increase rot. |

### SAFDECK® Two Span Load / Deflection Data

**24” SAFDECK® I = 0.4399 in.⁴ Wt = 4.1 lb./lin. ft. (gritted)**

<table>
<thead>
<tr>
<th>SINGLE SPAN LENGTH(I)</th>
<th>25</th>
<th>50</th>
<th>60</th>
<th>75</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>24” 610mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>∆u</td>
<td>0.011</td>
<td>0.021</td>
<td>0.026</td>
<td>0.031</td>
<td>0.042</td>
</tr>
<tr>
<td>∆d</td>
<td>0.28</td>
<td>0.53</td>
<td>0.66</td>
<td>0.79</td>
<td>1.07</td>
</tr>
<tr>
<td>36” 914mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>∆u</td>
<td>0.045</td>
<td>0.089</td>
<td>0.107</td>
<td>0.134</td>
<td>0.179</td>
</tr>
<tr>
<td>∆d</td>
<td>1.14</td>
<td>2.26</td>
<td>2.72</td>
<td>3.40</td>
<td>4.55</td>
</tr>
<tr>
<td>48” 1219mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>∆u</td>
<td>0.136</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>∆d</td>
<td>3.45</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

For Simple Beam, Single Span deflections, divide the above deflection numbers by 0.71. Maximum deflections are based on a deflection of approximately L/100.

- ∆u = Uniform load in lbs/ft² (N/m²). For example, a 100 lb. uniform load over 3 ft² is 300 lbs. of total load.
- ∆d = Typical deflection under the uniform load in inches (mm)
- ∆c = Concentrated load in lbs across width of panel (N)
- ∆d = Typical deflection under concentrated load in inches (mm)

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**ISO-9001 Quality Certified Manufacturing Plants**

**BRISTOL LOCATION**
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