STRONGWELL

SAFDECK[®]

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



- Corrosion Resistant
- High Strength
- » Lightweight
- » Quick and Easy Install

- » Overlapping Joints
- » Non-Conductive
- » Fire Retardant



Strongwell's SAFDECK[®] is a specially designed system of 24" wide, slip resistant (when gritted), 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 next page.



Deteriorated Plywood Fan Deck

	SAFDECK [®]	vs.	Plywood
ROT RESISTANCE	Superior resistance to a broad range of chemicals. Virtually unaffected by moisture or immersion in water. Surfacing veil and UV additives create excellent weatherability.		Can warp, rot and decay from exposure to moisture, water and chemicals. Preservative treatment required to increase rot resistance.
STRENGTH-TO-WEIGHT	FRP is stronger and has higher flexural strength than timber. FRP has a significantly higher strength-to-weight ratio.		Significantly heavier when wet.
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.
COST	Lower maintenance and longer product life often equals lower overall costs.		Lower initial cost.
ENVIRONMENTAL IMPACT	Inert material — dispose of waste in landfills.		Treatment chemicals are banned — may have to dispose of as toxic waste. May also experience increased levels of arsenic in cooling water during initial start-up.
SLIP RESISTANCE	Non-skid grit surface is available.		Requires FRP overlay or special coating. Difficult to apply and may actually increase rot.





Uniform Load (Deflection in inches (mm))

LOAD in LB / SQUARE FOOT (PSF) or KG / SQUARE METER (KG/M²) $I_{12} = 0.439$ in.⁴, wt = 4.1 lb / lin. ft. (gritted) or $I_{12} = 1.83 \times 10^5$ mm⁴, wt = 6.1 kg / lin. m



Concentrated Load (Deflection in inches (mm))

LOAD in LB / FOOT of WIDTH or KG / METER of WIDTH

 $I_{12} = 0.439 \text{ in.}^4$, wt = 4.1 lb / lin. ft. (gritted) or $I_{12} = 1.83 \times 10^5 \text{ mm}^4$, wt = 6.1 kg / lin. m

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SPAN	25 (1197)	50 (2394)	60 (2873)	75 (3591)	100 (4788)	SPAN	25 (365)	50 (730)	60 (876)	75 (1095)
24" 610mm	0.011 0.28	0.021 0.53	0.026 0.66	0.031 0.79	0.042 1.07	24" <mark>610mm</mark>	0.004 0.10	0.009 0.23	0.010 0.25	0.012 0.30
36" 914mm	0.045 1.14	0.089 2.26	0.107 2.72	0.134 <mark>3.40</mark>	0.179 4.55	36" 914mm	0.11 <mark>0.28</mark>	0.023 <mark>0.58</mark>	0.027 <mark>0.69</mark>	0.034 <mark>0.86</mark>
48" 1219mm	0.136 3.45	-	-	-	-	48" 1219mm	0.026 0.66	0.052 1.32	0.063 1.60	0.079 <mark>2.01</mark>

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



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100

(1460)

0.016

0.41

0.046

1.17

0.105

2.67

ISO 9001 Quality Certified Manufacturing Plants www.strongwell.com