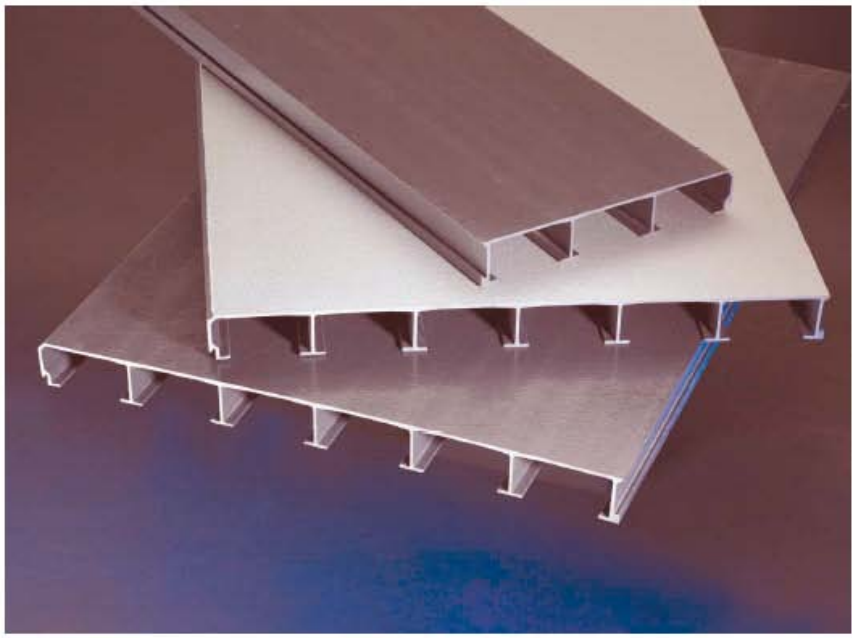
MODERN ENGINEERED PRODUCTS, INC.

STRONGWELL

SAFPLANK®
FIBERGLASS PLANK SYSTEM



P.O. Box 1074
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Fiberglass Plank System

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.

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

Features

SAFPLANK® is a high strength plank system of fiberglass panels designed to interlock for 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
- Non-conductive
- Interlocking

Sizes

SAFPLANK® is available in 2" deep panels in both 12" and 24" widths to offer flexibility in design. All stock panels are gritted and 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 panels are produced by the pultrusion process.

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

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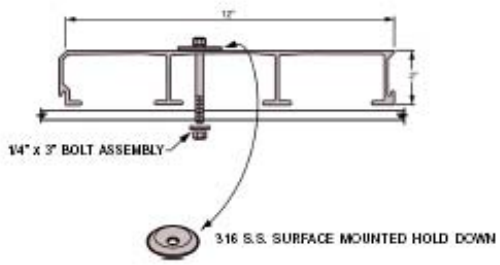
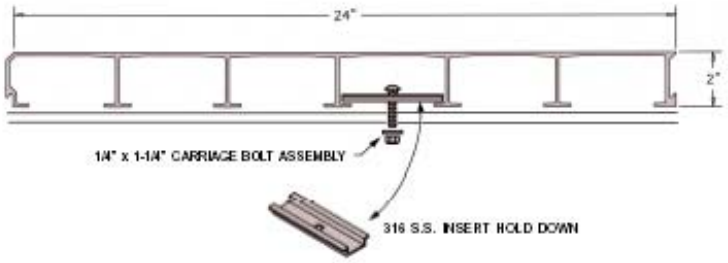
Accessories

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





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

SPAN		12" SAFPLANK® I_{12} = 1.69 in.⁴, wt = 2.6 lb/lin. ft. (gritted)						24" SAFPLANK® I_{24} = 3.10 in.⁴, wt = 5.1 lb/lin.ft. (gritted)				
		50 (u=2394) (c= 730)	100 (u=4788) (c=1460)	200 (u=9576) (c=2920)	300 (u=14364) (c=4380)	500 (u=23990) (c=7300)	1000 (u=47888) (c=14600)	100 (u=4788) (c=1460)	200 (u=9576) (c=2920)	300 (u=14364) (c=4380)	500 (u=28990) (c=7300)	1000 (u=47888) (c=14600)
24" (610 mm)	Δu	.006	.011	.023	.034	.057	.113	.015	.030	.045	.075	.151
	Δu	(.152)	(.279)	(.584)	(.864)	(1.448)	(2.87)	(.381)	(.762)	(1.143)	(1.905)	(3.835)
	Δc	< .005	.009	.018	.027	.045	.091	.012	.024	.036	.060	.121
	Δc	(< .127)	(.229)	(.457)	(.686)	(1.143)	(2.311)	(.305)	(.610)	(.914)	(1.524)	(3.073)
36" (914 mm)	Δu	.022	.043	.087	.130	.217	—	.046	.092	.138	.231	—
	Δu	(.559)	(1.092)	(2.210)	(3.302)	(5.512)	—	(1.168)	(2.337)	(3.505)	(5.867)	—
	Δc	.012	.023	.046	.070	.116	.232	.024	.049	.074	.123	.246
	Δc	(.305)	(.584)	(1.168)	(1.778)	(2.946)	(5.893)	(.610)	(1.245)	(1.870)	(3.124)	(6.248)
48" (1219 mm)	Δu	.062	.123	.247	.370	—	—	.133	.265	.398	—	—
	Δu	(1.575)	(3.124)	(6.274)	(9.398)	—	—	(3.378)	(6.731)	(10.109)	—	—
	Δc	.025	.049	.099	.148	.247	.494	.053	.106	.159	.265	—
	Δc	(.635)	(1.245)	(2.515)	(3.759)	(6.274)	(12.548)	(1.346)	(2.692)	(4.039)	(6.731)	—
60" (1524 mm)	Δu	.140	.281	.562	—	—	—	.302	.605	—	—	—
	Δu	(3.556)	(7.137)	(14.275)	—	—	—	(7.671)	(15.367)	—	—	—
	Δc	.045	.090	.180	.270	.450	—	.097	.193	.290	.484	—
	Δc	(1.143)	(2.286)	(4.572)	(6.858)	(11.43)	—	(2.464)	(4.902)	(7.417)	(12.294)	—
72" (1829 mm)	Δu	.291	.583	—	—	—	—	.627	—	—	—	—
	Δu	(7.391)	(14.808)	—	—	—	—	(15.926)	—	—	—	—
	Δc	.078	.155	.311	.466	—	—	.167	.334	.501	—	—
	Δc	(1.981)	(3.937)	(7.899)	(11.836)	—	—	(4.242)	(8.611)	(12.725)	—	—

Maximum deflections shown 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 ft.² is 300 lbs. of total load.

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)

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SAFPLANK® Load / Deflection Data (Upside Down Position)

SPAN		12" SAFPLANK® I_{12} = 1.69 in.⁴, wt = 2.6 lb/lin. ft. (gritted)						24" SAFPLANK® I_{24} = 3.10 in.⁴, wt = 5.1 lb/lin.ft. (gritted)				
		50 (u=2394) (c= 730)	100 (u=4788) (c=1460)	200 (u=9576) (c=2920)	300 (u=14364) (c=4380)	500 (u=23990) (c=7300)	1000 (u=47898) (c=14600)	100 (u=4788) (c=1460)	200 (u=9576) (c=2920)	300 (u=14364) (c=4380)	500 (u=28990) (c=7300)	1000 (u=47898) (c=14600)
24"	Δu	.007	.014	.026	.040	.062	—	.017	.030	.054	.086	.161
(610 mm)	Δu	(.178)	(.356)	(.660)	(1.016)	(1.575)	—	(.432)	(.762)	(1.372)	(2.184)	(4.089)
	Δc	.006	.011	.023	.033	.053	.099	.014	.026	.039	.057	.138
	Δc	(.152)	(.279)	(.584)	(.838)	(1.346)	(2.515)	(.356)	(.660)	(.991)	(1.448)	(3.505)
36"	Δu	.024	.046	.089	.121	—	—	.051	.109	.161	.261	—
(914 mm)	Δu	(.610)	(1.168)	(2.261)	(3.073)	—	—	(1.295)	(2.769)	(4.089)	(6.629)	—
	Δc	.013	.026	.050	.074	.118	.233	.030	.055	.080	.130	.287
	Δc	(.330)	(.660)	(1.270)	(1.880)	(2.997)	(5.918)	(.762)	(1.397)	(2.032)	(3.302)	(7.292)
48"	Δu	.064	.120	.237	—	—	—	.130	.287	.414	—	—
(1219 mm)	Δu	(1.626)	(3.048)	(6.020)	—	—	—	(3.302)	(7.290)	(10.516)	—	—
	Δc	.029	.053	.102	.148	.239	.469	.055	.106	.157	.259	—
	Δc	(.737)	(1.346)	(2.591)	(3.759)	(6.071)	(11.913)	(1.397)	(2.692)	(3.988)	(6.579)	—
60"	Δu	.138	.266	—	—	—	—	.286	.634	—	—	—
(1524 mm)	Δu	(3.525)	(6.756)	—	—	—	—	(7.264)	(16.104)	—	—	—
	Δc	.047	.088	.175	.258	.426	—	.095	.186	.278	.457	—
	Δc	(1.194)	(2.235)	(4.445)	(6.553)	(10.820)	—	(2.413)	(4.724)	(7.061)	(11.608)	—
72"	Δu	.268	—	—	—	—	—	.622	—	—	—	—
(1829 mm)	Δu	(6.807)	—	—	—	—	—	(15.799)	—	—	—	—
	Δc	.079	.150	.289	.430	—	—	.150	.298	.442	.740	—
	Δc	(2.007)	(3.810)	(7.341)	(10.922)	—	—	(3.810)	(7.569)	(11.227)	(18.796)	—

Maximum deflections shown 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.
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)

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