

STRONGWELL® SAFPLANK®

Features

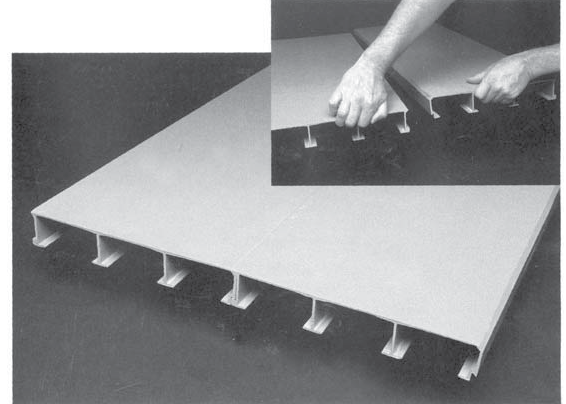
SAFPLANK® is a high strength system of fiberglass planks designed to interlock to form a continuous solid surface. SAF-PLANK® is intended to replace wood, aluminum or steel planks in environments where corrosion or rotting creates costly maintenance problems or unsafe conditions.

SAFPLANK® panels are:

- Corrosion Resistant
- Easy to Install
- Strong
- Lightweight
- Easy to Maintain
- Low in Conductivity
- Non-sparking
- Interlocking

Sizes

SAFPLANK® is available in 2" deep panels in 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.

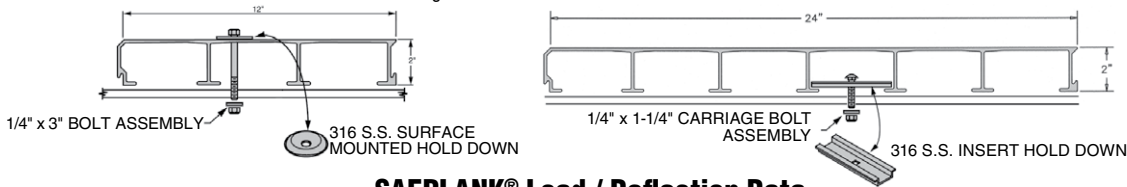


Materials of Construction

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 flame spread 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. The standard grit system for SAFPLANK® is a polyurethane based fine grit. This grit system is recommended for light pedestrian traffic only. Other grit systems available include epoxy medium and epoxy coarse and may be more appropriate for applications with heavier traffic.

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

SPAN	12" SAFPLANK® $I_{12} = 1.69 \text{ in.}^4, \text{ wt} = 2.6 \text{ lb/lin. ft. (gritted)}$						24" SAFPLANK® $I_{24} = 3.10 \text{ in.}^4, \text{ wt} = 5.1 \text{ lb/lin. ft. (gritted)}$					
	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	.434	.046	.092	.138	.231	.462
	Δu	.559	1.092	2.210	3.302	5.512	11.024	1.168	2.337	3.505	5.867	11.734
	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	.607	1.214	.133	.265	.398	.630	1.260
	Δu	1.575	3.124	6.274	9.398	15.330	30.660	3.378	6.731	10.109	15.164	30.328
	Δc	.025	.049	.099	.148	.247	.494	.053	.106	.159	.265	.530
	Δc	.635	1.245	2.515	3.759	6.274	12.548	1.346	2.692	4.039	6.731	13.462
60" 1524 mm	Δu	.140	.283	.562	.841	1.368	2.736	.302	.605	.907	1.814	3.628
	Δu	3.556	7.137	14.275	21.412	35.687	71.374	7.671	15.367	23.050	46.100	92.200
	Δc	.045	.090	.180	.270	.450	.900	.097	.193	.290	.484	.968
	Δc	1.143	2.286	4.572	6.858	11.43	22.86	2.464	4.902	7.417	12.294	24.588
72" 1829 mm	Δu	.291	.583	1.166	1.749	2.838	5.676	.627	1.254	1.881	3.762	7.524
	Δu	7.391	14.808	29.616	44.424	73.040	146.080	15.926	31.852	47.778	95.556	191.112
	Δc	.078	.155	.311	.466	.777	1.554	.167	.334	.501	.835	1.670
	Δc	1.981	3.937	7.899	11.836	19.727	39.454	4.242	8.611	12.725	25.450	50.900