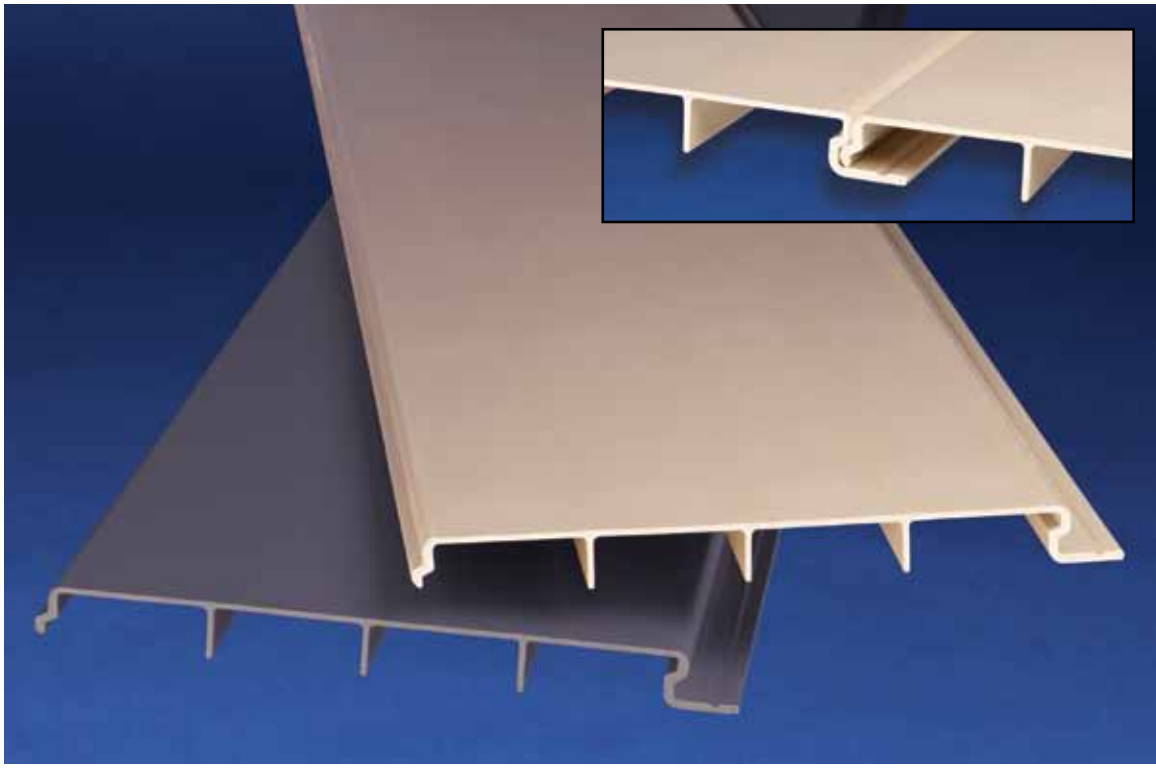
STRONGWELL®

STRONGDEK™

FIBERGLASS ARCHITECTURAL DECKING SYSTEM



- **Easy to Install**
- **Hidden Fastening System**
- **Rot, Rust & Mildew Resistant**
- **Low in Electrical and Thermal Conductivity**
- **Stronger than Wood or Plastic Lumber**
- **Lightweight**

STRONGDEK™ fiberglass decking is an attractive, low-maintenance architectural decking system that offers an alternative to traditional decking materials. The panels will not rot, rust, chip or mildew, which make them ideal for high-moisture environments, including saltwater.

STRONGDEK™ panels are designed to connect to form a continuous solid surface utilizing an innovative interlocking design. The deck sections are easily installed with screw-like fasteners that are not visible, creating a smooth, attractive surface.

STRONGDEK™ panels have intermediate ribs on each panel that help provide extra stiffness and strength, allowing the deck to perform ideally in areas with pedestrian traffic. An optional grit surface can be added to provide a non-skid surface.

Typical applications of STRONGDEK™:

- Hotel Recreational Areas
- Homes and Condominiums
- Buildings in Coastal Areas
- Marinas and Docks

STRONGDEK™ decking was installed at the Perdido Beach Resort in 2003, and still looks attractive today. The resort's owner, Jim Medlock, said "The deck has held up very well. During the summer months, it has a function on it just about every Friday and Saturday night!"

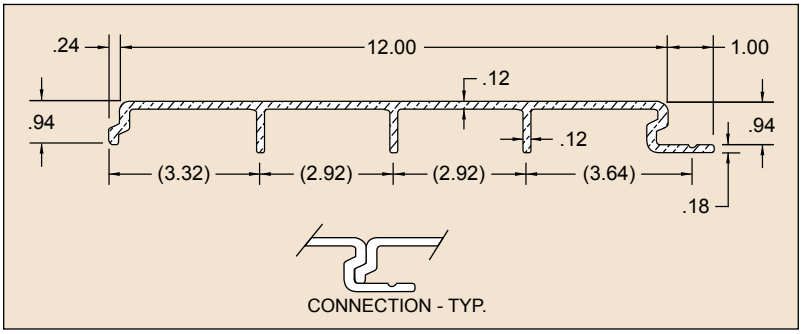
Materials of Construction

STRONGDEK™ is a composite of fiberglass roving and mat with a thermoset resin system, produced by the pultrusion process. The panels can be produced with an optional grit surface. Standard colors are light gray and beige.

Sizes

STRONGDEK™ is 12" wide and standard 24' panels are available in stock. Panels can also be produced in any length that is practical.

Dimensional Details



STRONGDEK™ Load / Deflection Data

I_{12} = 0.31 in.^{4} Wt = 1.87 lb./lin. ft. (gritted)

SPAN		50 u=2394 c=730	100 u=4788 c=1460	150 u=7182 c=2190	200 u=9576 c=2920	250 u=11970 c=3650	300 u=14364 c=4380	350 u=16758 c=5110	400 u=19152 c=5840	450 u=21546 c=6570	500 u=23940 c=7300	550 u=26334 c=8030	600 u=28728 c=8760	650 u=31122 c=9490
	Δu	0.019	0.026	0.034	0.041	0.048	0.054	0.073	0.080	0.086	0.094	0.100	0.107	0.113
24"	Δu	0.488	0.671	0.853	1.036	1.219	1.372	1.859	2.042	2.195	2.377	2.530	2.713	2.865
610mm	Δc	0.016	0.022	0.028	0.034	0.04	0.045	0.061	0.067	0.072	0.078	0.083	0.089	0.094
	Δc	0.406	0.559	0.711	0.864	1.016	1.143	1.549	1.702	1.829	1.981	2.108	2.261	2.388
	Δu	0.032	0.041	0.056	0.069	0.081	0.096	0.117	0.131	0.144	0.155	0.165	0.179	
30"	Δu	0.800	1.029	1.410	1.753	2.057	2.438	2.972	3.315	3.658	3.924	4.191	4.534	
762mm	Δc	0.021	0.027	0.037	0.046	0.054	0.064	0.078	0.087	0.096	0.103	0.11	0.119	
	Δc	0.533	0.686	0.940	1.168	1.372	1.626	1.981	2.210	2.438	2.616	2.794	3.023	
	Δu	0.047	0.065	0.090	0.115	0.140	0.169	0.207	0.227	0.252				
36"	Δu	1.189	1.646	2.286	2.926	3.566	4.298	5.258	5.761	6.401				
914mm	Δc	0.026	0.036	0.05	0.064	0.078	0.094	0.115	0.126	0.14				
	Δc	0.660	0.914	1.270	1.626	1.981	2.388	2.921	3.200	3.556				
	Δu	0.067	0.101	0.145	0.191	0.239	0.288	0.340	0.365					
42"	Δu	1.707	2.560	3.680	4.854	6.081	7.308	8.641	9.281					
1067mm	Δc	0.032	0.048	0.069	0.091	0.114	0.137	0.162	0.174					
	Δc	0.813	1.219	1.753	2.311	2.896	3.480	4.115	4.420					
	Δu	0.096	0.158	0.233	0.310	0.391	0.463							
48"	Δu	2.438	4.023	5.913	7.864	9.936	11.765							
1220mm	Δc	0.04	0.066	0.097	0.129	0.163	0.193							
	Δc	1.016	1.676	2.464	3.277	4.140	4.902							
	Δu	0.138	0.246	0.370	0.497	0.626								
54"	Δu	3.498	6.241	9.395	12.619	15.911								
1372mm	Δc	0.051	0.091	0.137	0.184	0.232								
	Δc	1.295	2.311	3.480	4.674	5.893								

u = Uniform load in lbs/ft^2 (N/m^2). 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)

NOTE: *STRONGDEK™ panels were attached to beams with tek screws and tested in a multi-panel configuration. This data was used to create the STRONGDEK™ load table above for a single panel.*

STRONGWELL

ISO-9001:2000 Certified Manufacturing Plants

BRISTOL DIVISION
400 Commonwealth Ave., P.O. Box 580, Bristol, VA 24203-0580 USA
(276)645-8000 FAX (276)645-8132

CHATFIELD DIVISION
1610 Highway 52 South, Chatfield, MN 55923-9799 USA
(507)867-3479 FAX (507)867-4031

www.strongwell.com

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