STRONGDEK™

FIBERGLASS ARCHITECTURAL DECKING SYSTEM

Innovative Solutions in Fiberglass

optional starter channel

connection detail
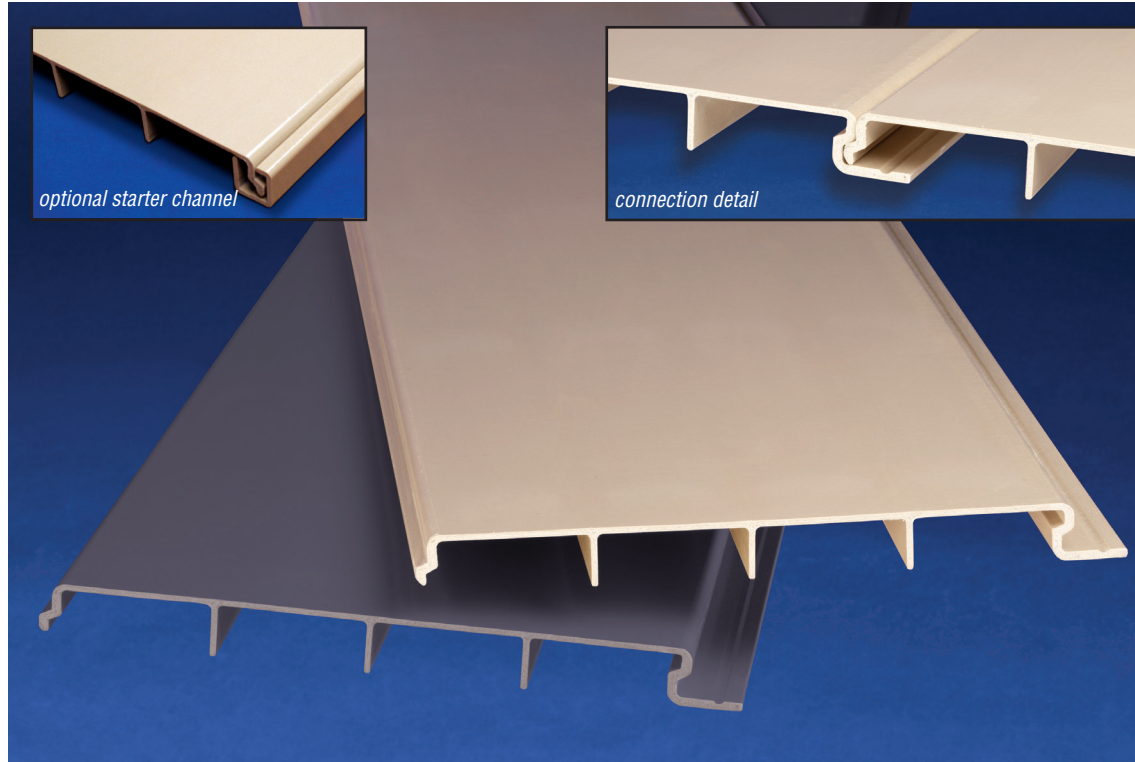
- **Easy to Install**

- **Hidden Fastening System**

- **Rot, Rust and Mildew Resistant**

- **Non-Conductive**

- **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!"
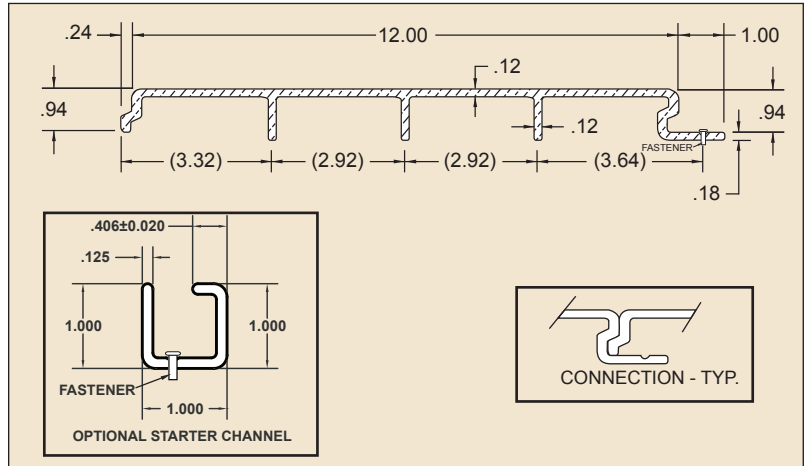
Sizes and Colors

STRONGDEK™ is 12" wide and standard 24' long panels are available in stock. Panels can also be produced in any length that is practical. Standard colors are light gray or beige. Panels can be produced with an optional grit surface.

Available Accessories

A STRONGDEK™ starter channel can be used to provide a finished look to lengthwise ends, while equal leg angles can be used for end closures and/or cantilever supports.

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
24" **610mm**	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
	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
	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
30" **762mm**	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	
	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	
	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	
36" **914mm**	Δu	0.047	0.065	0.090	0.115	0.140	0.169	0.207	0.227	0.252				
	Δu	1.189	1.646	2.286	2.926	3.566	4.298	5.258	5.761	6.401				
	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				
42" **1067mm**	Δu	0.067	0.101	0.145	0.191	0.239	0.288	0.340	0.365					
	Δu	1.707	2.560	3.680	4.854	6.081	7.308	8.641	9.281					
	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					
48" **1220mm**	Δu	0.096	0.158	0.233	0.310	0.391	0.463							
	Δu	2.438	4.023	5.913	7.864	9.936	11.765							
	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							
54" **1372mm**	Δu	0.138	0.246	0.370	0.497	0.626								
	Δu	3.498	6.241	9.395	12.619	15.911								
	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.