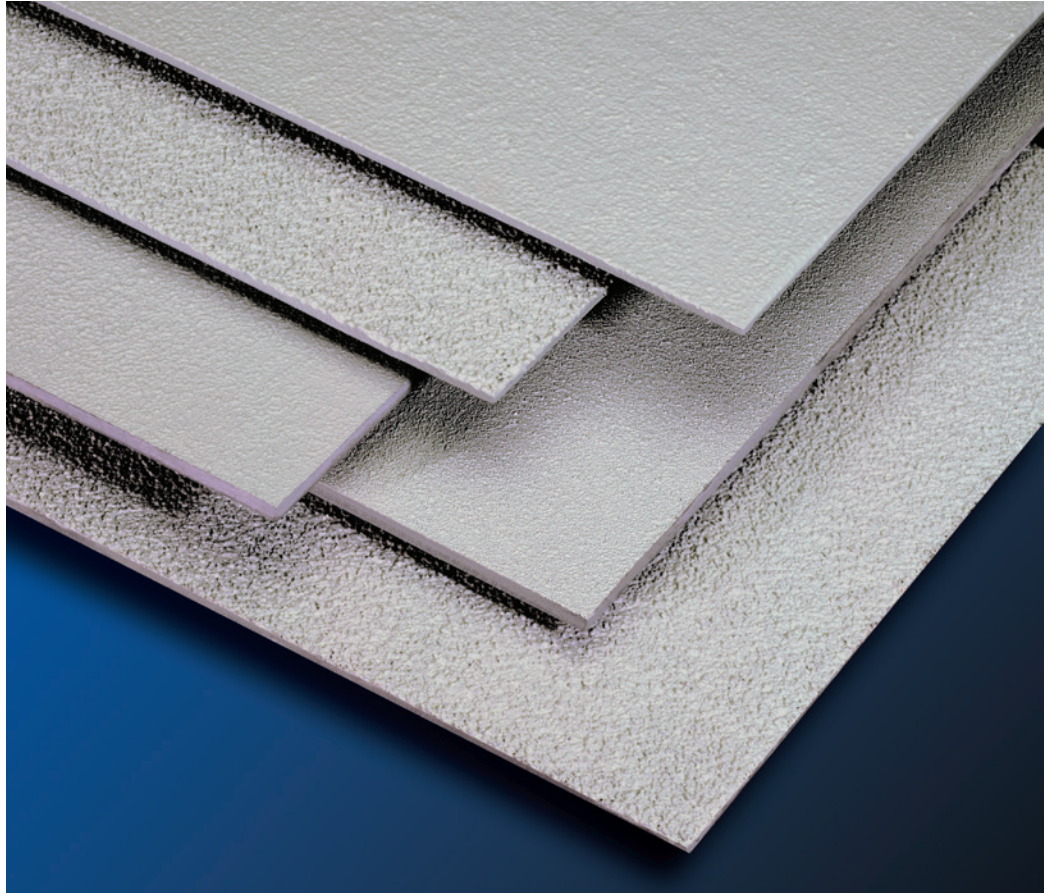


SAFPLATE®

FIBERGLASS GRITTED PLATE



- **Skid Resistant**
- **Lightweight**
- **Impact Resistant**
- **Corrosion Resistant**
- **Strong**
- **Cost Effective**
- **Easy to Install**
- **Custom Colors & Finishes**

SAFPLATE® fiberglass gritted plate, is a tough, corrosion resistant floor plate. SAFPLATE®'s unique combination of pultruded fiberglass plate with an anti-skid grit surface creates a textured solid sheet flooring that is ideal for both wet and dry environments. Used in a variety of applications, such as trench covers to contain vapors and fumes or pedestrian bridge walkways for sure footing, SAFPLATE® provides a long-lasting, maintenance-free alternative to steel plate for severe, corrosive environments.

SAFPLATE® is available as solid plate or bonded to DURADEK® or DURAGRID® grating. Surface grits are available in urethane fine or medium (for light pedestrian applications), as well as epoxy fine, medium, coarse (#4) or extra coarse (#3). SAFPLATE® is available in 4' x 8' panels in standard EXTREN® plate thicknesses of 1/8", 3/16", 1/4", 3/8", 1/2", 5/8", 3/4" and 1". SAFPLATE® is available in EXTREN® Series 500, 525 and 625 resin systems. Custom colors and sizes are available upon request.

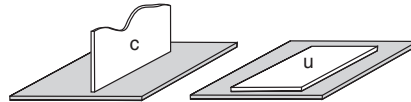
SAFPLATE® Load / Deflection Data Maximum Deflection L/100 or t/2

Thickness	Span									
	12" (305mm)	18" (458mm)	24" (610mm)	30" (762mm)	36" (915mm)	42" (1067mm)	48" (1220mm)	54" (1372mm)	60" (1524mm)	
1/4" (6.4 mm)	u	167 (8.00)	34 (1.63)	11 (0.53)						
	Δu	.120 (3.05)	.125 (3.18)	.125 (3.18)						
	c	104 (1.52)	32 (0.47)	14 (0.20)						
	Δc	.120 (3.05)	.125 (3.18)	.125 (3.18)						
3/8" (9.6 mm)	u	562 (26.91)	167 (8.00)	55 (2.63)	23 (1.10)	11 (0.53)				
	Δu	.120 (3.05)	.180 (4.57)	.188 (4.78)	.188 (4.78)	.188 (4.78)				
	c	351 (5.12)	156 (2.28)	69 (1.01)	35 (0.51)	20 (0.29)				
	Δc	.120 (3.05)	.180 (4.57)	.188 (4.78)	.188 (4.78)	.188 (4.78)				
1/2" (12.7 mm)	u	1333 (63.82)	370 (17.72)	167 (8.00)	71 (3.40)	34 (1.63)	18 (0.86)	11 (0.53)		
	Δu	.120 (3.05)	.180 (4.57)	.240 (6.10)	.25 (6.35)	.25 (6.35)	.25 (6.35)	.25 (6.35)		
	c	833 (12.15)	370 (5.40)	209 (3.05)	111 (1.62)	65 (0.95)	40 (0.58)	27 (0.39)		
	Δc	.120 (3.05)	.180 (4.57)	.240 (6.10)	.25 (6.35)	.25 (6.35)	.25 (6.35)	.25 (6.35)		
5/8" (15.9 mm)	u	2600 (124.49)	768 (36.77)	326 (15.61)	167 (8.00)	84 (4.02)	45 (2.15)	27 (1.29)	17 (0.81)	11 (0.53)
	Δu	.120 (3.05)	.180 (4.57)	.240 (6.10)	.300 (7.62)	.312 (7.92)	.312 (7.92)	.312 (7.92)	.312 (7.92)	.312 (7.92)
	c	1622 (23.66)	723 (10.55)	407 (5.94)	260 (3.79)	157 (2.29)	99 (1.44)	66 (0.96)	47 (0.69)	34 (0.50)
	Δc	.120 (3.05)	.180 (4.57)	.240 (6.10)	.300 (7.62)	.312 (7.92)	.312 (7.92)	.312 (7.92)	.312 (7.92)	.312 (7.92)
3/4" (19.1 mm)	u	4499 (215.41)	1333 (63.82)	563 (26.96)	288 (13.79)	167 (8.00)	94 (4.50)	55 (2.63)	34 (1.63)	22 (1.05)
	Δu	.120 (3.05)	.180 (4.57)	.240 (6.10)	.300 (7.62)	.360 (9.14)	.375 (9.53)	.375 (9.53)	.375 (9.53)	.375 (9.53)
	c	2804 (40.91)	1250 (18.24)	702 (10.24)	450 (6.57)	313 (4.57)	205 (2.99)	138 (2.01)	97 (1.42)	71 (1.04)
	Δc	.120 (3.05)	.180 (4.57)	.240 (6.10)	.300 (7.62)	.360 (9.14)	.375 (9.53)	.375 (9.53)	.375 (9.53)	.375 (9.53)
1" (25.4 mm)	u	10677 (511.21)	3158 (151.21)	1333 (63.82)	682 (32.65)	396 (18.96)	248 (11.87)	167 (8.00)	108 (5.17)	71 (3.40)
	Δu	.120 (3.05)	.180 (4.57)	.240 (6.10)	.300 (7.62)	.360 (9.14)	.420 (10.67)	.480 (12.19)	.500 (12.70)	.500 (12.70)
	c	6667 (97.27)	2956 (43.13)	1667 (24.32)	1068 (15.58)	740 (10.80)	544 (7.94)	416 (6.07)	305 (4.45)	222 (3.24)
	Δc	.120 (3.05)	.180 (4.57)	.240 (6.10)	.300 (7.62)	.360 (9.14)	.420 (10.67)	.480 (12.19)	.500 (12.70)	.500 (12.70)

• Sheet spanning in lengthwise direction.

• For allowable loads when sheet is spanning in crosswise direction, multiply table values by 0.55 for 1/4" (6.35 mm) and .70 (17.78 mm) for all other thicknesses.

NOTE: All table values are typical.



c CONCENTRATED LOAD LBS/FT OF WIDTH (KN/m of width)
 Δc DEFLECTION INCHES (mm) UNDER CONCENTRATED LOAD
 u UNIFORM LOAD LBS/FT² (KN/m²)
 Δu DEFLECTION INCHES (mm) UNDER UNIFORM LOAD
 L SIMPLE SPAN
 t THICKNESS

SAFPLATE® Properties¹

Mechanical Properties (coupons)	Test Method	Longitudinal Direction (psi) (N/mm ²)		Transverse ² Direction (psi) (N/mm ²)	
Ultimate Tensile Stress	D638	20,000	138	7,500-10,000	51.7-68.9
Ultimate Compressive Stress	D695	24,000	165	15,500-20,000	107-138
Ultimate Flexural Stress	D790	24,000	165	10,000-17,000	89.6-124
Tensile Modulus	D638	1.8 x 10 ⁶	12.4 x 10 ³	0.7-1.0 x 10 ⁶	4.83-6.89 x 10 ³
Compressive Modulus	D695	1.8 x 10 ⁶	12.4 x 10 ³	0.7-1.0 x 10 ⁶	4.83-6.89 x 10 ³
Flexural Modulus	D790	1.1-1.4 x 10 ⁶	7.58-9.65 x 10 ³	0.8-1.0 x 10 ⁶	5.51-8.96 x 10 ³
Ultimate Bearing Stress	D953	32,000	220.6-221.0	--	--

All values are minimum ultimate properties

¹ SAFPLATE® using EXTREN® Series 525 plate. See the Strongwell Design Manual for properties with other resin systems.

² Value range from 1/8" (3.18 mm) - 1" (25.4 mm) plate thickness.

NOTE: Regardless of grit selection, SAFPLATE® has a Static Coefficient of Friction (per ASTM D-2047) which exceeds the OSHA and ADA requirements for skid resistance.

SAFPLATE® Bonded to DURADEK® Load / Deflection Data Maximum Uniform Load (lbs/ft²) (KN/m²) for 0.25" (6.35mm) Deflection

Series	Span									
	24" (610mm)	30" (762mm)	36" (915mm)	42" (1067mm)	48" (1220mm)	54" (1372mm)	60" (1524mm)	66" (1677mm)	72" (1829mm)	
I-6000 1" (25.4 mm) with 1/8" (3.18 mm) Plate	1522 (72.87)	647 (30.98)	321 (15.37)	174 (8.33)	104 (4.98)	65 (3.11)				
I-6000 1 1/2" (38.1 mm) with 1/8" (3.18 mm) Plate	3854 (184.53)	1624 (77.76)	797 (38.16)	437 (20.92)	259 (12.40)	163 (7.80)	107 (5.12)	73 (3.50)		
T-5000 2" (50.8 mm) with 1/8" (3.18 mm) Plate	6167 (295.28)	2572 (123.15)	1260 (60.33)	689 (32.99)	410 (19.63)	260 (12.45)	172 (8.24)	118 (5.65)	84 (4.02)	

NOTE: All table values are typical. See DURADEK® literature for available widths.



ISO-9001 Quality Certified Manufacturing Plants

BRISTOL LOCATION*

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

*SAFPLATE® Manufacturing Location



CHATFIELD LOCATION

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