

SAFPLATE®

FIBERGLASS GRITTED PLATE

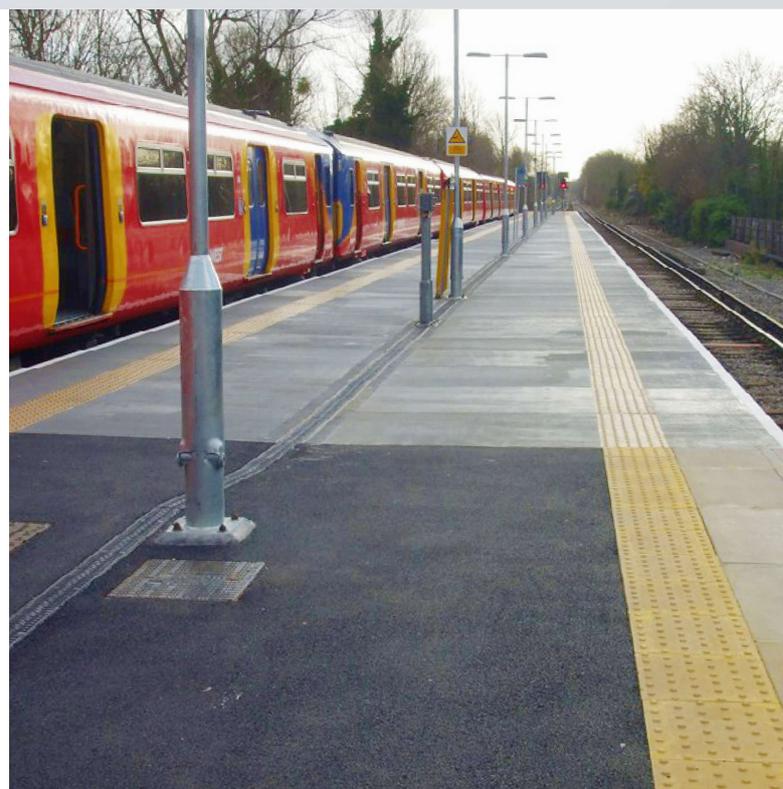
EXCLUSIVELY



- » Skid Resistant
- » Lightweight
- » Impact Resistant
- » Corrosion Resistant
- » 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, low maintenance alternative to steel plate for severe, corrosive environments.

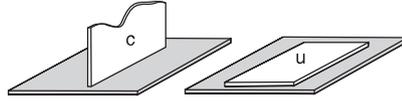
SAFPLATE is available as solid plate or bonded to DURAGRID® grating. Surface grits are available in a variety of materials and textures to accommodate many applications. SAFPLATE is available in 4' (1.2m) x 8' (2.4m) panels in standard EXTREN® plate thicknesses of 1/8" (3.2mm), 3/16" (4.8mm), 1/4" (6.4mm), 3/8" (9.5mm), 1/2" (12.7mm), 5/8" (15.9mm), 3/4" (19.1mm), and, 1" (25.4mm). SAFPLATE is available in all standard EXTREN Series. 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" (6.4mm)	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" (9.5mm)	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" (12.7mm)	u	1333 (63.82)	395 (18.82)	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" (15.9mm)	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" (19.1mm)	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" (25.4mm)	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 0.4 for 1/4" (6.4mm) and 3/8" (9.5mm) and 0.65 for all other thicknesses.



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

NOTE: All table values are typical.

SAFPLATE® Properties¹

Mechanical Properties (coupons)	Test Method	Longitudinal Direction (psi) (N/mm²)		Transverse ² Direction (psi) (N/mm²)	
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	0.8-1.3 x 10 ⁶	5.51-8.96 x 10 ³
Ultimate Bearing Stress	D953	32,000	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" (3.2mm) - 1" (25.4mm) 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 DURAGRID® Load / Deflection Data Uniform Load (lbs/ft²) (KN/m²) Producing 1/4" (6.4mm) Deflection

Series	Span »	24" (610mm)	30" (762mm)	36" (915mm)	42" (1067mm)	48" (1220mm)	54" (1372mm)	60" (1524mm)	66" (1677mm)	72" (1829mm)
I-6000 1" (25.4mm) w/ 1/8" (3.2mm) Plate		1358 (65.0)	576 (27.6)	288 (13.8)	156 (7.5)	93 (4.5)	59 (2.8)	-	-	-
I-6000 1-1/2" (38.1mm) w/ 1/8" (3.2mm) Plate		3485 (166.9)	1471 (70.4)	722 (34.6)	396 (19.0)	235 (11.3)	148 (7.1)	98 (4.7)	67 (3.2)	-
T-5000 2" (50.8mm) w/ 1/8" (3.2mm) Plate		6082 (291.2)	2537 (121.5)	1243 (59.5)	680 (32.6)	405 (19.4)	256 (12.3)	170 (8.1)	117 (5.6)	84 (4.0)

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



ISO 9001 Quality Certified Manufacturing Plants



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