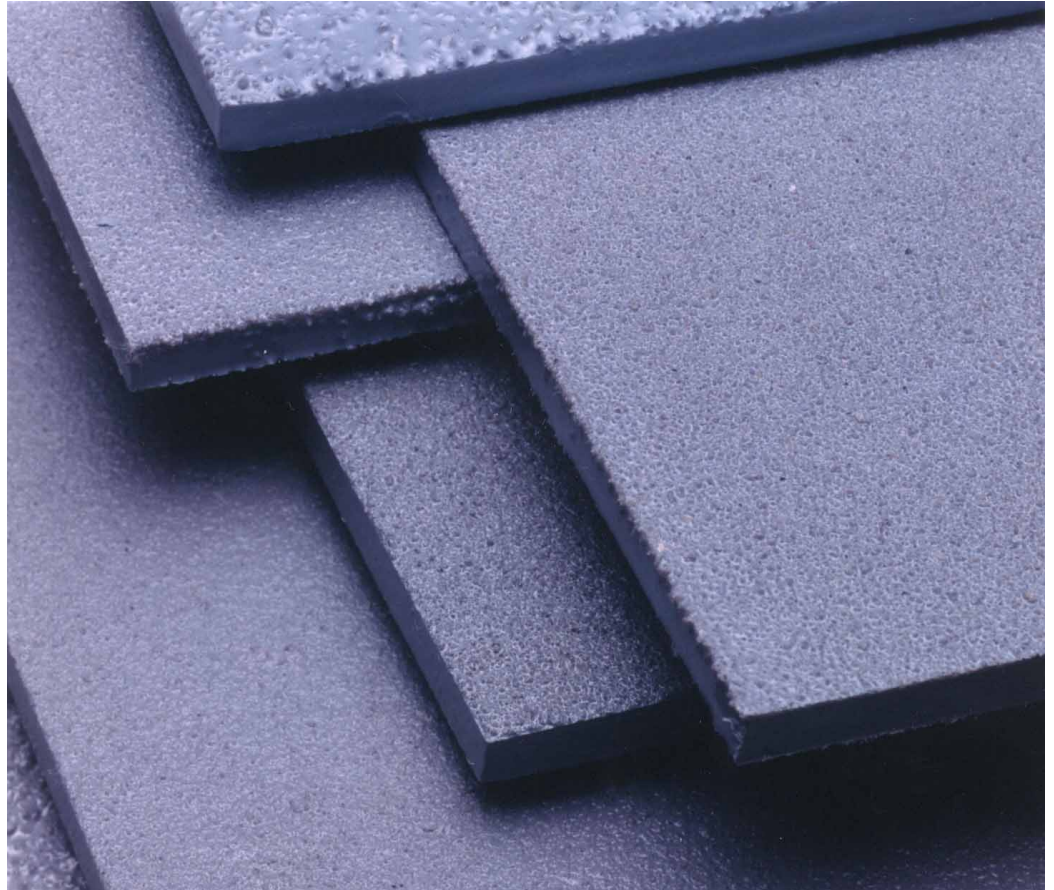


SAFPLATE® FIBERGLASS GRITTED PLATE



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

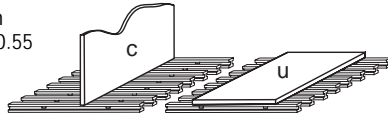
SAFPLATE® fiberglass gritted plate, is a tough, corrosion resistant floor plate. A unique combination of pultruded fiberglass plate and anti-skid grit surface provides a textured solid sheet flooring that is ideal for both wet and dry applications. Used in a variety of applications, such as trench covers 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. The grit surfaces can be fine, medium or coarse. It is available in 4' x 8' panels in all standard EXTREN® plate thicknesses: 1/8", 3/16", 1/4", 3/8", 1/2", 3/4". The standard SAFPLATE® is fiberglass reinforced polyester with fire retardant in a gray color. Other resin systems and custom colors are available upon request.

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

Thickness	Span									
	12"	18"	24"	30"	36"	42"	48"	54"	60"	
1/4"	u	167	34	11						
	Δu	.120	.125	.125						
	c	104	32	14						
	Δc	.120	.125	.125						
3/8"	u	562	167	55	23	11				
	Δu	.120	.180	.188	.188	.188				
	c	351	156	69	35	20				
	Δc	.120	.180	.188	.188	.188				
1/2"	u	1333	370	167	71	34	18	11		
	Δu	.120	.180	.240	.25	.25	.25	.25		
	c	833	370	209	111	65	40	27		
	Δc	.120	.180	.240	.25	.25	.25	.25		
5/8"	u	2600	768	326	167	84	45	27	17	11
	Δu	.120	.180	.240	.300	.312	.312	.312	.312	.312
	c	1622	723	407	260	157	99	66	47	34
	Δc	.120	.180	.240	.300	.312	.312	.312	.312	.312
3/4"	u	4499	1333	563	288	167	94	55	34	22
	Δu	.120	.180	.240	.300	.360	.375	.375	.375	.375
	c	2804	1250	702	450	313	205	138	97	71
	Δc	.120	.180	.240	.300	.360	.375	.375	.375	.375
1"	u	10,677	3158	1333	682	396	248	167	108	71
	Δu	.120	.180	.240	.300	.360	.420	.480	.500	.500
	c	6667	2956	1667	1068	740	544	416	305	222
	Δc	.120	.180	.240	.300	.360	.420	.480	.500	.500

- Sheet spanning in lengthwise direction.
- For allowable loads when sheet is spanning in crosswise direction, multiply table values by 0.55 for 1/4" and .70 for all other thicknesses.
- NOTE: All table values are typical



c IS CONCENTRATED LOAD LBS/FT OF WIDTH
 Δc IS DEFLECTION UNDER CONCENTRATED LOAD
 u IS UNIFORM LOAD LBS/FT²
 Δu IS DEFLECTION UNDER UNIFORM LOAD
 L SIMPLE SPAN
 t THICKNESS

SAFPLATE® Plate Bonded to DURADEK® Load / Deflection Data Maximum Uniform Load (lbs/ft²) for 0.25" Deflection

Series	Span									
	24"	30"	36"	42"	48"	54"	60"	66"	72"	
I-6000 1" with 1/8" Plate	1522	647	321	174	104	65				
I-6000 1 1/2" with 1/8" Plate	3854	1624	797	437	259	163	107	73		
T-5000 2" with 1/8" Plate	6167	2572	1260	689	410	260	172	118	84	

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

Typical Properties of SAFPLATE®¹

Mechanical Properties (coupons)	Test Method	Longitudinal Direction (psi)	Transverse ² Direction (psi)
Ultimate Tensile Strength	D638	20,000	7.5 - 10 x 10 ³
Ultimate Compressive Strength	D695	24,000	15.5 - 20 x 10 ³
Ultimate Flexural Strength	D790	30,000	13 - 18 x 10 ³
Tensile Modulus	D638	1.8 x 10 ⁶	0.7 - 1.4 x 10 ⁶
Compressive Modulus	D695	1.8 x 10 ⁶	1.0 x 10 ⁶
Flexural Modulus	D790	1.8 x 10 ⁶	1.1 x 10 ⁶
Ultimate Bearing Strength	D953	32,000	—

All values are minimum ultimate properties

¹ Standard SAFPLATE® using EXTREN® S-525 plate. See the EXTREN® Design Manual for properties with other resin systems.

² Value range from 1/8" - 3/4" plate thickness.

NOTE: Standard SAFPLATE® has a Class 1 flame rating of 25 or less per ASTM E-84 and meets the self-extinguishing requirements of ASTM D-635. It has a Static Coefficient of friction of 0.99 per ASTM D-2047 which exceeds the OSHA and ADA requirements for skid resistance.



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