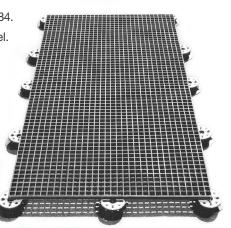
SPAN TRAK FRP GRATING

Archatrak 'SpanTrak' FRP Grating

Molded fiberglass grating panels manufactured with interwoven high-strength glass rovings embedded in a thermosetting resin matrix. These structural panels exhibit excellent bi-directional strength and one of the highest strength-to-weight ratios of any material. SpanTrak grating panels are manufactured with selected FRP resins, fillers and additives to provide maximum outdoor durability and fire resistance.

- Class A fire rating for flame spread and smoke-developed index per ASTM E84.
- High strength tension, compression and bending strength similar to steel.
- Excellent slip-resistance with bonded grit surface for superior traction.
- High impact resistance springs back to original shape when deflected.
- Lightweight only 1/4 the weight of steel and 2/3 the weight of aluminum.
- Smooth, even surface for wheeled trolleys, wheelchairs and shoe heels.
- Unaffected by salt spray and prolonged exposure to wet conditions.
- Permits safe, all year-round use, all weather conditions.
- Long life span typically in excess of 25 years.
- Highly resistant to mold, mildew, and moss.
- Highly resistant to corrosive chemicals.

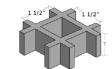


Specifications

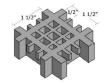
Resin	Type-I isophthalic polyester, industrial grade
	UV stabilized, fire retardant
Filler	Aluminum hydroxide
Glass fiber content	Approx. 35%
Color	Traffic grey (RAL 7043) - std. Other colors on special order at volume.
Surface finish	Anti-slip bonded quartz grit.
Fire resistance	ASTM E84-2018 Smoke Developed Index 200 (Class A)
	ASTM E84-2016 Flame Spread Index 8 (Class A)
Slip Resistance	Wet 71 / Dry 76

SpanTrak Sizes

Panel dimensions may vary by up to 1/8". Allowances should be made for this manufacturing tolerance when constructing frames to contain panels.







PROPERTY MACROMESH **MIDIMESH MINIMESH** Primary grid bars 1 1/2" x 1 1/2" (on center) 1 1/2" x 1 1/2" (on center) 1 1/2" x 1 1/2" (on center) Secondary grid bars 3/4" x 3/4" (on center) 1/2" x 1/2" (on center) Aperture 1 1/4" x 1 1/4" 1/2" x 1/2" 1/4" x 1/4" Load bar thickness 1/4" 1/4" (primary), 1/4" (secondary) 1/4" (primary), 3/16" (secondary) Panel thickness 1 3/16" 1 3/16" 1 3/16" Open space 68% 42% 30% Panel size 4' x 8' 4' x 8' 4' x 8' Weight 2.5 lb / sq.ft. 3.5 lb / sq.ft. 4.5 lb / sq. ft.

Installation Guide

SPANTRAK / FRP GRATING PANELS

Concentrated							I	MACRO	OMESH	I						
Line Load (KG/MTR)	SPAN mm	300	500	800	1000	1300	1500	2000	2500	3900	5000	6000	7000	8000	9000	MAX. REC.
(Ku/min)	400	1.0	1.5	2.4	4.2	4.9	6.3	9.6	12.8							900
	600	2.2	3.5	5.8	7.9											620
Equa	800	7.1														450
SPAN (rep) Equal	SPAN							MIDII	MESH							MAX.
× •	mm	300	500	800	1000	1300	1500	2000	2500	3900	5000	6000	7000	8000	9000	REC.
	400	0.9	1.6	2.6	3.3	4.3	4	6.7	8.4	13.3	17.1					945
	600	2	3	5.6	7.1	9.3	.910.7	14.2	17.7	27.5						651
	800	6.7	11.5	18.4	22.9	29.8										473
	1000	10.7	17.3	27.3												340

							MACRO	OMESH	I						
SPAN															MAX.
mm	300	500	800	1000	1300	1500	2000	2500	3900	5000	6000	7000	8000	9000	REC.
400	0.2	0.4	0.8	1.0	1.3	1.9	2.2	2.9	5.9	6.9	8.5	9.5	9.5	10.9	6500
600	1.0	1.5	4.8	2.8	3.6	4.3	6.3	7.4							4300
800	3.9	7.1	8.9												1900
1000	5.5														1100
							MIDII	MESH							
SPAN															MAX.
mm	300	500	800	1000	1300	1500	2000	2500	3900	5000	6000	7000	8000	9000	REC.
400	0.4	0.6	0.7	0.9	1.3	1.5	2.0	2.5	3.7	4.7	5.7	6.7	7.7	8.7	6695
600	0.7	1.2	2.3	2.7	3.6	4.1	5.5	6.9	10.5	13.4	16.0	18.7	21.3	23.9	4429
800	3.8	6.4	10.4	12.8	16.9	19.5									1957
1000	7.1	11.6	19.0	23.2											1133
	mm 400 600 800 1000 SPAN mm 400 600 800	mm 300 400 0.2 600 1.0 800 3.9 1000 5.5 SPAN mm 400 0.4 600 0.7 800 3.8	mm 300 500 400 0.2 0.4 600 1.0 1.5 800 3.9 7.1 1000 5.5	mm 300 500 800 400 0.2 0.4 0.8 600 1.0 1.5 4.8 800 3.9 7.1 8.9 1000 5.5 5 SPAN mm 300 500 800 400 0.4 0.6 0.7 600 0.7 1.2 2.3 800 3.8 6.4 10.4 5 5	mm 300 500 800 1000 400 0.2 0.4 0.8 1.0 600 1.0 1.5 4.8 2.8 800 3.9 7.1 8.9 1000 1000 5.5 - - - SPAN mm 300 500 800 1000 400 0.4 0.6 0.7 0.9 - 600 0.7 1.2 2.3 2.7 - 800 3.8 6.4 10.4 12.8	mm 300 500 800 1000 1300 400 0.2 0.4 0.8 1.0 1.3 600 1.0 1.5 4.8 2.8 3.6 800 3.9 7.1 8.9 1000 5.5 span mm 300 500 800 1000 1300 400 0.4 0.6 0.7 0.9 1.3 600 0.7 1.2 2.3 2.7 3.6 800 3.8 6.4 10.4 12.8 16.9	SPAN 300 500 800 1000 1300 1500 400 0.2 0.4 0.8 1.0 1.3 1.9 600 1.0 1.5 4.8 2.8 3.6 4.3 800 3.9 7.1 8.9	SPAN 300 500 800 1000 1300 1500 2000 400 0.2 0.4 0.8 1.0 1.3 1.9 2.2 600 1.0 1.5 4.8 2.8 3.6 4.3 6.3 800 3.9 7.1 8.9	SPAN mm 300 500 800 1000 1300 1500 2000 2500 400 0.2 0.4 0.8 1.0 1.3 1.9 2.2 2.9 600 1.0 1.5 4.8 2.8 3.6 4.3 6.3 7.4 800 3.9 7.1 8.9	mm 300 500 800 1000 1300 1500 2000 2500 3900 400 0.2 0.4 0.8 1.0 1.3 1.9 2.2 2.9 5.9 600 1.0 1.5 4.8 2.8 3.6 4.3 6.3 7.4 800 3.9 7.1 8.9	SPAN 300 500 800 1000 1300 1500 2000 2500 3900 5000 400 0.2 0.4 0.8 1.0 1.3 1.9 2.2 2.9 5.9 6.9 600 1.0 1.5 4.8 2.8 3.6 4.3 6.3 7.4 7.5 7.4 7.5 7.4 7.5 7.5 7.4 7.5 7.5 7.6 7.5 7.5 7.6 7.4 7.7 7.6 7.7 7.4 7.4	SPAN 300 500 800 1000 1300 1500 2000 2500 3900 5000 6000 400 0.2 0.4 0.8 1.0 1.3 1.9 2.2 2.9 5.9 6.9 8.5 600 1.0 1.5 4.8 2.8 3.6 4.3 6.3 7.4 8.9 8.5 600 3.9 7.1 8.9 MIDIMESH MIDIMESH SPAN mm 300 500 800 1000 1300 1500 2000 2500 3900 5000 6000 400 0.4 0.6 0.7 0.9 1.3 1.5 2.0 2.5 3.7 4.7 5.7 600 0.7 1.2 2.3 2.7 3.6 4.1 5.5 6.9 10.5 13.4 16.0 800 3.8 6.4 10.4 12.8 16.9 19.5 <	SPAN mm 300 500 800 1000 1300 1500 2000 2500 3900 5000 6000 7000 400 0.2 0.4 0.8 1.0 1.3 1.9 2.2 2.9 5.9 6.9 8.5 9.5 600 1.0 1.5 4.8 2.8 3.6 4.3 6.3 7.4 7.5 7.6 7.4 7.5 7.6 7.4 7.5 7.6 7.4 7.5 7.6 7.7 6.7 6.09 7.4 7.5 7.6 7.7 6.7 6.9 7.0.5 7.3 7.4 7.5 7.6 7.7 6.0 7.4 <td< th=""><th>SPAN mm 300 500 800 1000 1300 1500 2000 2500 3900 5000 6000 7000 8000 400 0.2 0.4 0.8 1.0 1.3 1.9 2.2 2.9 5.9 6.9 8.5 9.5 9.5 600 1.0 1.5 4.8 2.8 3.6 4.3 6.3 7.4 8.5 9.5 9.5 600 5.5 MIDIMESH MIDIMESH SPAN mm 300 500 800 1000 1300 1500 2000 2500 3900 5000 6000 7000 8000 400 0.4 0.6 0.7 0.9 1.3 1.5 2.0 2.5 3.7 4.7 5.7 6.7 7.7 600 0.7 1.2 2.3 2.7 3.6 4.1 5.5 6.9 10.5 13.4 16.0</th><th>SPAN 300 500 800 1000 1300 1500 2000 2500 3900 5000 6000 7000 8000 9000 400 0.2 0.4 0.8 1.0 1.3 1.9 2.2 2.9 5.9 6.9 8.5 9.5 9.5 10.9 600 1.0 1.5 4.8 2.8 3.6 4.3 6.3 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.7 8.7 Mm 300 5.4 10.4 12.8 16.9 <t< th=""></t<></th></td<>	SPAN mm 300 500 800 1000 1300 1500 2000 2500 3900 5000 6000 7000 8000 400 0.2 0.4 0.8 1.0 1.3 1.9 2.2 2.9 5.9 6.9 8.5 9.5 9.5 600 1.0 1.5 4.8 2.8 3.6 4.3 6.3 7.4 8.5 9.5 9.5 600 5.5 MIDIMESH MIDIMESH SPAN mm 300 500 800 1000 1300 1500 2000 2500 3900 5000 6000 7000 8000 400 0.4 0.6 0.7 0.9 1.3 1.5 2.0 2.5 3.7 4.7 5.7 6.7 7.7 600 0.7 1.2 2.3 2.7 3.6 4.1 5.5 6.9 10.5 13.4 16.0	SPAN 300 500 800 1000 1300 1500 2000 2500 3900 5000 6000 7000 8000 9000 400 0.2 0.4 0.8 1.0 1.3 1.9 2.2 2.9 5.9 6.9 8.5 9.5 9.5 10.9 600 1.0 1.5 4.8 2.8 3.6 4.3 6.3 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.7 8.7 Mm 300 5.4 10.4 12.8 16.9 <t< th=""></t<>

Point Load	SPAN	SPAN								
(KG)	mm	100	225	350	450	700	900			
	450	0.3	0.5	0.9	1.0	2.7	3.5			
	600	0.9	1.1	2.5	2.7	8.1	9.2			
æ	750	1.1	2.2	5.2	8.9					
	900	2.6	4.9	8.5	13.8					
	1050	4.1	7.5							
	1150	6.5								
RULL PANEL SPAN	SPAN									
	mm	100	225	350	450	700	900			
	450	0.3	0.6	0.9	1.2	1.8	2.4			
	600	0.7	1.8	2.7	3.7	5.8	7.6			
	750	1.7	3.7	5.5	7.0	10.7	14.3			
	900	2.3	5.2	7.9	10.4	15.5	20.7			
	1050									

Load Guidelines

- It is advised not to exceed the maximum recommended load at any given span.
- Maximum recommended load represents a 5:1 factor of safety on ultimate capacity.
- Ultimate capacity represents a complete and total failure of the grating.
- Walking loads, typically 250-300 kg/m2 maximum are recommended for pedestrian traffic.
- The allowable loads in this table are for static load conditions at ambient temperatures only.
- All gratings were tested in accordance with the proposed standard of the Fiberglass Grating Manufacturers Council of the American Composites Manufacturers Association.





