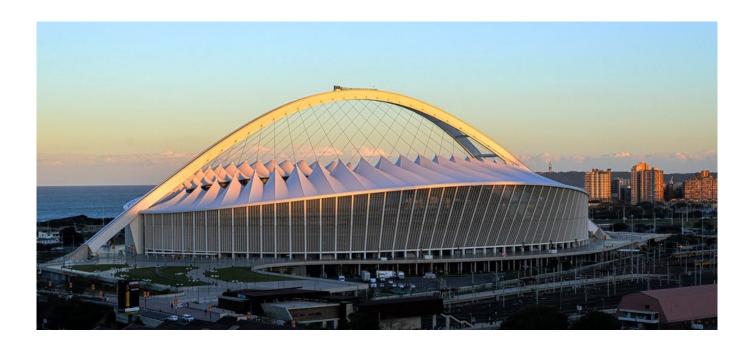


GRATING





ABOUT STONCOR

StonCor companies are the platform operating entities for RPM Performance Coatings, which has its head office in New Jersey, USA. Our platform companies can be found in Africa, the Middle East, India and South America and represent the various brands within RPM.

We pride ourselves in manufacturing, specifying and supplying world class products for a wide variety of construction, repair and specialised rehabilitation projects.

We incorporate our knowledge and expertise with new innovation from our global network of technology partners, to lead in composite gratings and profiles, handrails, structural shapes, protective coatings, resin flooring, bridge expansion joints, roofing, sealants and concrete repair markets.





GRATING PRODUCTS

Stongrate provides turnkey design and fabrication of moulded gratings and fibreglass structures including platforms, cat ladders, stairways, railings and equipment support structures. Our professional engineering and drafting team can help you find the right solution to meet your needs for longevity, safety and cost.

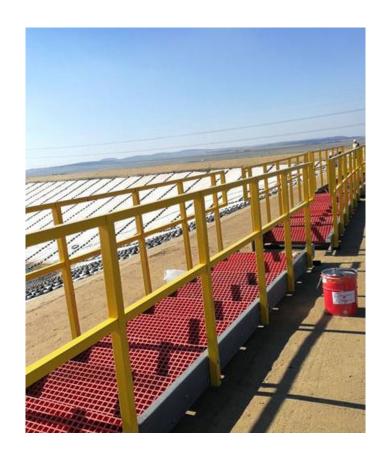


38mm GRP Grating and 44mm Square Tube Hand Railing

MOULDED GRATINGS

Stongrate Fibreglass Composites

Stongrate Fibreglass composites are manufactured in an open, heated mould system. Continuous E-glass roving's are placed in the mould in alternating layers and completely wetted out with resin. This continuous process produces an integral, one piece construction which provides excellent corrosion resistance as well as bi-directional strength. There are a number of different moulds available resulting in an extensive range of panel sizes, thickness and mesh patterns.



INDUSTRIES

- + Metals and minings
- + Construction engineering and transportation
- + Petrochemical engineering, water engineering and waster water
- + Food and beverage
- + Oil and gas

FUNCTIONS

- + Anti-slip floor, stair tread, foot bridge
- + Operation platform, trench cover
- + Security and safety fence, handrail
- + Off-shore oil rig, moor shipyard, shipping deck and ceiling
- + Ramp ladder, scaffold and railway footpath
- + Decorative grid, and man-made fountain pool grid

ADVANTAGES

- + Fire Retardant
- + Corrosion resistant
- + Slip Resistant
- + High Strength to Weight Ratio
- + Long service life and maintenance free
- + Non-conductive and Non-magnetic
- + Light weight for easy installation

Surfaces



CONCAVE/MINISCUS TOP



GRITTED TOP



GRITTED OR SMOOTH COVERED TOP

MATERIALS OF CONSTRUCTION

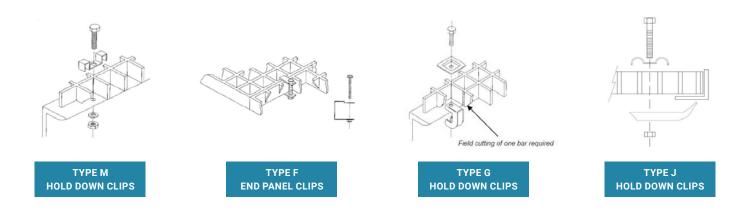


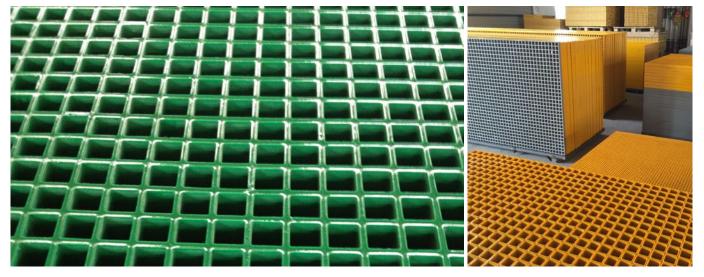
Resin Systems

Resin Type	Resin Base	Description	Corrosion Resistance	Flame Spread Rating ASTM E84	Colours Available
IFR-25	Isophthalic Polyester Resin	Industrial grade corrosion resistance and fire retardant	Very good	25 or less	Green, Grey

Attachment Clip Assembly

Stongrate offers/provides the specially designed joining and fastening clips required for the GRP Grating. All the attachments and clips are made from 316 Stainless Steel material and are available for the following grating thickness sizes: 25mm, 38mm & 50mm. A minimum of 4 clips are required per piece of grating.





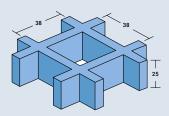
Fibreglass Moulded Grating Technical Details

Legend	Thickness (mm)	Bar thickness (Top/ Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/m²)	Open Rate (%)
38 38	25	6.5/5.0	38×38	1220 × 3660	12.3	68
	30	6.5/5.0	38×38	1220 × 3660	14.6	68
	38	7.0/5.0	38×38	1220 × 3660, 1220 × 2440, 915 × 3050	19.5	68

Legend	Thickness (mm)	Bar thickness (Top/ Bottom)	Mesh size (mm)	Panel Size available (mm)	Weight (kg/m²)	Open Rate (%)
50 50	50	8.0/6.0	50x50	3660 x 1220	23.7	78
	-	-	-	-	-	-
50	-	-	-	-	-	-
	-	-	-	-	-	-

Load Deflective Tables





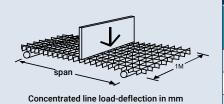
Bar thickness (Top /Bottom): 6.5/5.0

Distance between centers of bearing bars: 38

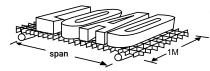
Open Area: 68%

Weight per square meter: 12.3 kg/m²

Standard panel sizes: 3660 x 1220

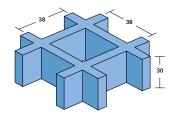


38 x 38 x 25								
Deflection			Kg	/m			Break Point	
Span (mm)	75	150	300	450	600	750	(kg/m)	
450	0.559	1.146	2.159	3.073	4.115	4.75	3910	
600	1.16	2.32	4.64	6.97	9.29	11.62	2924	
900	3.92	7.84	12.116	18.44	19.82	20.77	1948	
1200	9.29	18.5	15.33	23.54	25.52	27.98	1461	



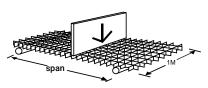
Uniformed load-deflection in mm

			38 x 3	8 x 25			
Deflection				Kg/m			
Span (mm)	240	480	980	1450	2450	3650	4880
450	0.66	1.092	1.93	2.769	4.47	6.579	- /
600	1.118	2.108	4.14	6.172	10.244	15.265	-
750	2.667	5.387	10.82	16.28	21.738	29.962	- \ /
900	5.537	11.176	21.717	23.164	26.574	31.590	-



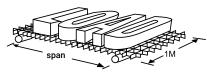
6.5/5.0 Bar thickness (Top /Bottom): Distance between centers of bearing bars: 38 Open Area: 68% Weight per square meter: 14.6 kg/m²

Standard panel sizes: 3660 x 1220



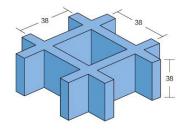
Concentrated line load-deflection in mm

			38 x 3	8 x 30					
	Deflection Kg/m								
Span (mm)	75	150	300	450	750	1500	Point (kg/m)		
300	<0.254	<0.254	0.254	0.508	0.762	1.524	9923.4		
450	0.254	0.508	1.016	1.524	2.54	3.92	4827.6		
600	0.508	1.27	2.286	3.556	5.842	7.38	4112.4		
750	1.27	2.54	4.826	7.366	12.446	15.98	3173.7		
900	2.27	4.54	9.08	13.63	18.72	22.05	2637.3		



Uniformed load-deflection in mm

	38 x 38 x 30								
Deflection	Kg/m								
Span (mm)	350	500	750	1000	1500	2500			
300	0.29	0.48	0.57	0.75	1.15	1.82			
450	0.78	1.19	1.81	2.47	3.54	4.95			
600	0.76	2.66	4.28	5.56	8.41	13.19			
750	3.48	5.12	8.21	10.95	16.42	-			
900	5.89	8.81	14.15	18.92	-	-			

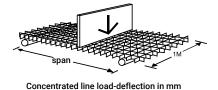


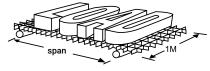
Bar thickness (Top /Bottom): 7.0/5.0 Distance between centers of bearing bars: 38 68% Open Area: Weight per square meter: 19.5 kg/m²

Standard panel sizes:

3660 x 1220, 2440 x 1220, 3050 x 915

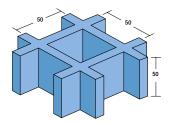
	38 x 38 x 38								
Deflection					Break Point				
Span (mm)	150	300	450	600	750	1500	(kg/m)		
300	0.356	0.483	0.61	0.762	0.889	1.06	17116		
600	0.66	1.245	1.85	2.464	3.073	8.48	8718		
900	1.803	3.683	5.563	7.417	9.296	13.79	5817		
1200	4.749	9.677	14.63	19.583	21.19	-	3755		





Uniformed load-deflection in mm

	38 x 38 x 38									
Deflection	Kg/m									
Span (mm)	240	480	980	1450	2450	3650	4880			
300	0.09	0.19	0.38	0.49	0.78	1.05	-			
600	0.432	0.813	1.549	2.311	3.8354	5.74	-			
900	1.702	3.454	6.959	10.465	17.475	23.25	-			
1200	5.969	12.167	24.511	32.58	38.65	-	-			



Bar thickness (Top /Bottom): 8.0/6.0

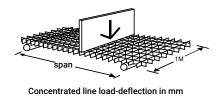
Distance between centers of bearing bars: 50

Open Area: 78%

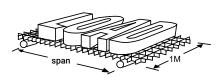
Weight per square meter: 23.7 kg/m²

Standard panel sizes:

3660 x 1220



	50 x 50 x 50									
Deflection				Break Point						
Span (mm)	150	300	450	600	750	1500	(kg/m)			
300	0.305	0.406	0.483	0.635	1.041	1.45	21727			
600	0.508	0.813	1.128	1.753	3.327	4.27	11713			
900	1.118	2.235	3.2	5.156	6.58	13.46	7780			
1200	1.33	2.61	5.98	9.95	11.92	-	5834			



Uniformed load-deflection in mm

	50 x 50 x 50									
Deflection	n Kg/m									
Span (mm)	240	480	980	1450	2450	3650	4880			
300	0.254	0.279	0.33	0.381	0.483	0.737	-			
600	0.381	0.584	0.965	1.372	2.134	4.115	-			
900	1.194	2.108	3.937	5.766	9.449	18.593	-			
1200	2.413	4.928	9.957	14.961	16.810	21.575	-			



Chemical Resistance Chart Of Molded Gratings

	Maximum Operating Temperature				
Chemical	%Conc.	IFR - 25			
Hydrochloric acid	30	65			
Nitric acid	35	N/R			
Sulphuric acid	25	65			
Hydrofluoric acid	10	N/R			
Lactic acid	100	65			
Hypochlorous acid	SAT	N/R			
Citric acid	ALL	N/R			
Potassium hydroxide	10	N/R			
Sodium hydroxide	10	N/R			
Calcium hydroxide	25	65			
Calcium hypochloride	25	65			
Ferric chloride	100	65			
Aluminium chloride	ALL	65			
Mercuric chloride	100	65			
Silver nitrate	100	65			
Sodium salt	ALL	N/R			
Zinc chloride	ALL	24			
Acetone	100	N/R			
Chloroform	100	N/R			
Fuel	ALL	38			
Nantokite	ALL	65			
Phenols	10	N/R			
Ozone	ALL	38			
Bleaching liquid	ALL	N/R			
Ammonium hydroxide	30	N/R			
Ammonium salt	ALL	N/R			
Black sewage	ALL	N/R			
Cupric oxide	ALL	52			
Glycol	100	65			
Sulfur dioxide	SAT	65			
Sodium phosphate	50	N/R			
Water	100	65			
Alum	ALL	65			
Chlorine water	SAT	N/R			





StonCor Middle East LLC Plot B-418 4th Street Al Quoz Industrial 3, Dubai, UAE Office:+971 4 347 04 60 Email: info@stoncor-me.com