

FIBREKOR

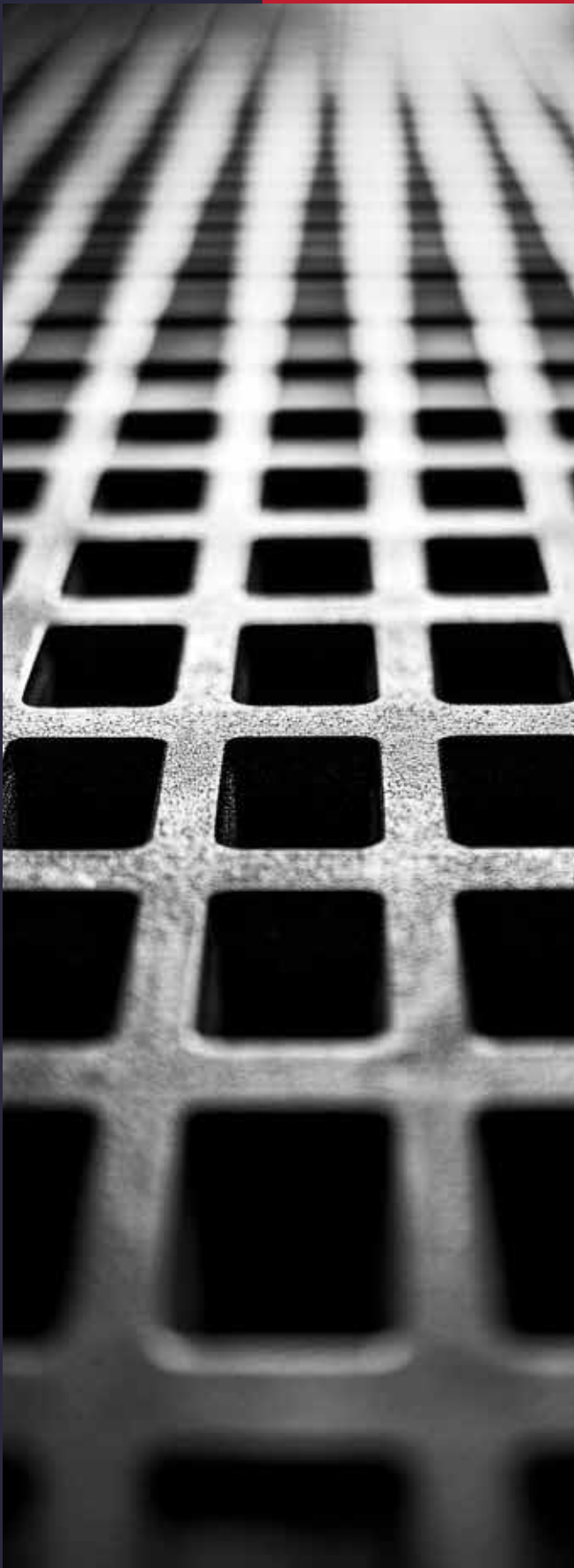
FIBREGLASS GRATING SOLUTIONS

PRODUCT CATALOGUE

FIBREGLASS GRATING SOLUTIONS

FIBREKOR PTY LTD

www.fibrekor.co.za | sales@fibrekor.co.za



ABOUT US

At Fibrekor, we specialize in the supply of high-quality FRP Fibreglass Grating, a fully integrated product engineered to meet the rigorous demands of modern industry. Designed for durability and long-term performance, our grating is crafted with premium resin, offering exceptional resistance to corrosion caused by electrical currents and a wide range of industrial chemicals. The product's strength is further enhanced by alternating layers of glass-fiber components bonded with a carefully selected resin.

Since 2018, Fibrekor has been a trusted trading company, leveraging over 30 years of experience in importing premium products from around the globe. We are committed to delivering superior quality and outstanding customer service to industries across Africa.

With all our products manufactured locally, we ensure faster delivery times and personalized, hands-on service tailored to our clients' needs.

WHAT IS FRP GRATING?

A strong, lightweight, and corrosion-resistant solution for industrial needs.

The Manufacturing Process

- 01 Continuous glass fibers are placed in horizontal and vertical directions within a liquid mold.
- 02 Fibers are layered and thoroughly saturated with resin for enhanced structural integrity.
- 03 The mold is heat-cured to create a single-piece panel

Surface Finishing

Panels typically feature a concave top surface post-curing.

Additional grit can be applied to improve anti-slip properties.

Key Benefits



Durability

Strong, long-lasting performance.



Corrosion Resistance

Ideal for harsh environments.



Lightweight

Easy to install and maintain.

INDUSTRIES WE SERVE

Marine and Shipping

Designed to withstand harsh marine environments, our FRP grating solutions offer superior resistance to saltwater corrosion, ensuring long-lasting performance on docks, ship decks, and other marine infrastructure.

Oil and Gas

Our FRP gratings meet the demanding requirements of the oil and gas industry, providing a lightweight, non-conductive, and corrosion-resistant solution for offshore platforms, refineries, and processing plants.

Mining

Built for durability in extreme conditions, our gratings deliver reliable performance in mining operations, offering chemical resistance and robust structural integrity for walkways, platforms, and safety covers.

Solar Panel Walkways

Enhance the efficiency and safety of solar installations with our FRP gratings, ideal for creating durable, non-slip walkways that protect both personnel and the panels during maintenance and inspection.



CHEMICAL	MAX. OPER. TEMP.		
	%CONC.	%CONC.	TYPE ISO
Hydrochloric Acid	30	82	65
Nitric Acid	35	38	N/R
Sulphuric Acid	25	82	65
Hydrofluoric Acid	10	24	N/R
Lactic Acid	100	82	65
Hypochlorous Acid	SAT	60	N/R
Citric Acid	ALL	49	N/R
Potassium Hydroxide	10	49	N/R
Sodium Hydroxide	10	82	N/R
Calcium Hydroxide	25	82	65
Calcium Hypochlorite	25	82	65
Ferric Chloride	100	82	65
Aluminium Chloride	ALL	82	65
Mercuric Chloride	100	82	65
Silver Nitrate	100	82	65
Sodium Salt	ALL	24	N/R
Zinc Chloride	ALL	24	24
Acetone	100	124	N/R
Chloroform	100	N/R	N/R
Fuel	ALL	38	38
Nantokite	ALL	82	65
Phenols	10	24	N/R
Ozone	ALL	38	38
Bleaching Liquid	ALL	82	N/R
Ammonium Hydroxide	30	24	N/R
Ammonium Salt	ALL	24	N/R
Black Sewage	ALL	82	N/R
Cupric Oxide	ALL	82	52
Glycol	100	82	65
Sulfur Dioxide	SAT	82	65
Sodium Phosphate	50	82	N/R
Water	100	82	65
Alum	ALL	82	65
Chlorine Water	SAT	49	N/R

ALL – Concentrations, SAT – Saturated Solutions, N/R – Not Recommended

25 x 38 x 38

Deflection span (mm)	Kg/m ²			
	350	500	750	1000
300	0.27	0.28	0.29	0.30
450	0.65	1.05	1.61	2.07
600	2.31	3.10	4.92	6.53
750	5.08	7.13	11.30	15.03
900	12.43	16.07	24.17	32.16
1150	28.14	40.13	-	-

30 x 38 x38

Deflection span (mm)	Kg/m ²			
	350	500	750	1500
300	0.26	0.51	0.77	1.53
450	1.02	1.53	2.54	-
600	2.29	356	5.83	-
750	4.83	7.37	12.45	-
900	7.62	11.43	-	-

38 x 38 x38

Deflection span (mm)	Kg/m ²				
	350	500	750	1000	5000
300	0.27	0.28	0.29	0.30	2.3
450	0.65	1.05	1.61	2.07	4.13
600	2.31	3.10	4.92	6.53	11.6
750	5.08	7.13	11.30	15.03	25.4
900	12.43	16.07	24.17	32.16	-
1150	28.14	40.13	-	-	-

50 x 50 x 50

Deflection span (mm)	Kg/m ²				
	500	750	1500	2500	10 000
300	0.28	0.29	0.31	0.33	1.15
600	0.61	0.81	1.83	2.87	12.43
1050	4.81	6.73	12.48	22.04	-
1200	7.72	11.14	22.4	-	-
1500	19.14	29.34	-	-	-

FLAME TESTS

Two laminates were received for flammability and LOI Determination. The results are tabulated below.

Flammability Property	Red Laminate (Dion Impact 9133-00)	Green Laminate (NCS 991 PAMV)
Time to extinguish (Seconds)	158.5	21.5
Spread of Flame	5.1	4.7
LOI (%)	>76.2	>83.8

LOAD TESTS

Test No.	Test Description	Required Load	Load Achieved
1	300mm span	30kg	300kg
2	300mm span	750kg	750v
3	300mm span	1000kg	1000kg
4	300mm span	-	1457.69kg
5	500mm span	300kg	300kg
6	500mm span	750kg	750kg
7	500mm span	1000kg	1000kg
8	750mm span	30kg	30kg
9	750mm span	750kg	750kg
10	1000mm span	100kg	100kg
11	1000mm span	300kg	300kg
12	1000mm span	-	540.26kg
13	1144mm span	100kg	100kg
14	1144mm span	150kg	150kg
15	1144mm span	200kg	200kg
16	1144mm span	-	468.9kg

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