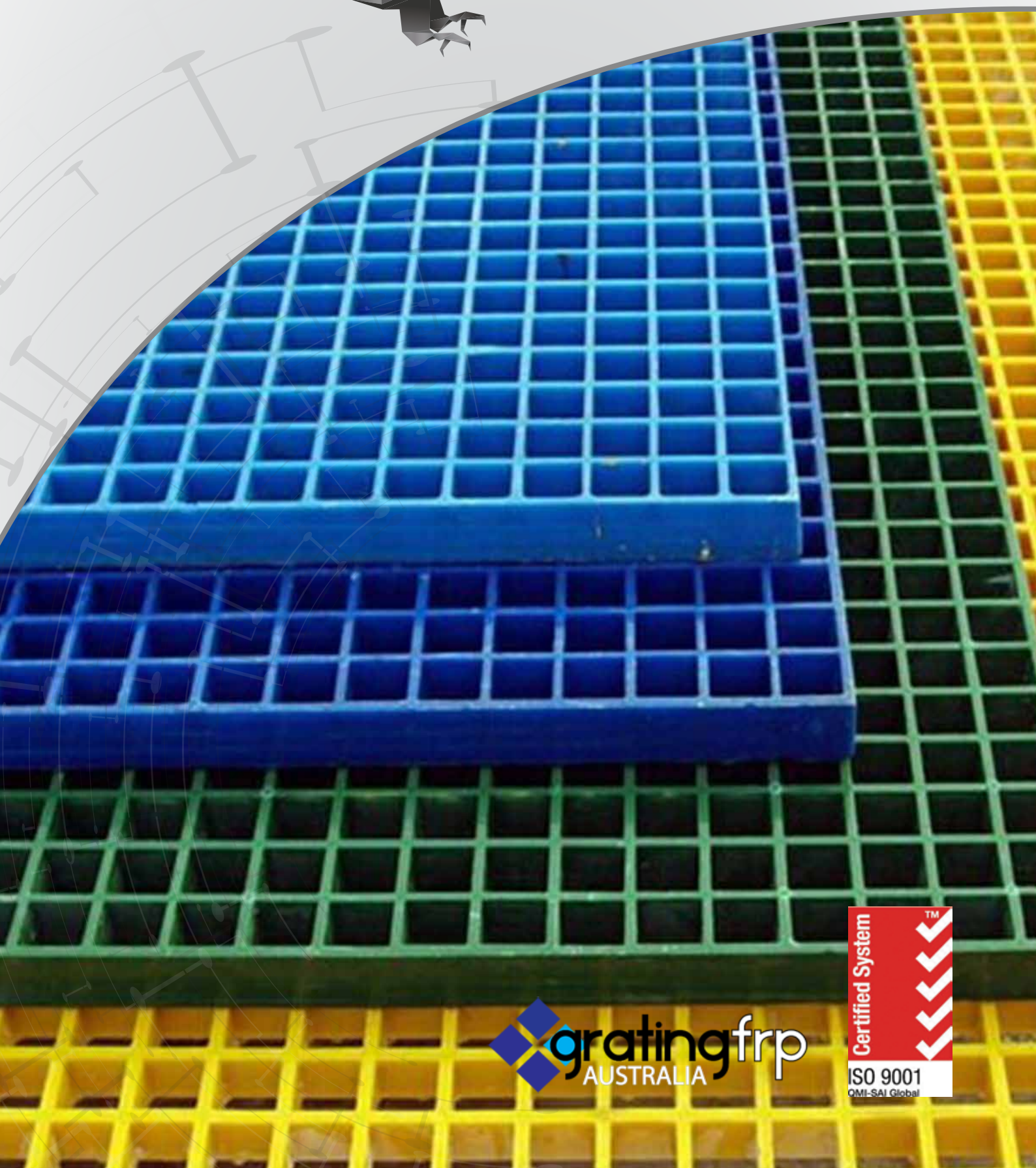
SCAVENGER SUPPLIES



gratingfrp AUSTRALIA

Certified System ISO 9001 QMI-SAI Global

About Us

Scavenger Supplies is an Australian-owned, Australia-wide specialist in industrial products and services, committed to safety and high standards for our customers. Our focus is on maintaining control systems that provide an environmentally safe and healthy workplace for all.

Established in 2002 as **Conveyor Technology Services**, we have consistently expanded to meet the high requirements of industry in Australia.

Scavenger Supplies has two divisions - **Scavenger Supplies** and **Scavenger Fire / Maritime Safety**. These are supported by four leading brands – **Scavenger Supplies, Conveyor Technology, Scavenger Fire and Safety** and **Grating FRP Australia**.

All have a comprehensive product portfolio based on quality-assured manufacturers and suppliers.

Scavenger Supplies is supported by a Quality Management System that conforms to rigorous standards, including ISO 9001:2008. We work with your company so that exacting goals of quality, price and delivery are consistently met.

Every aspect of our service and delivery to you is measured, from selecting material, components and services that undergo routine inspection for specific conformity, to providing facilities, training and encouragement, backed by regular reviews and internal audits.

We partner with innovative manufacturers to bring you the latest, safest and most cost-effective technologies.

We are proud of the range of solutions we provide, constantly looking for products that have perfect mechanical properties, are light weight, high strength, impact resistant, easy to maintain, with a number of other benefits so that you can concentrate on delivering the safety and environmental standards expected by your customers and employees.

Copies of certification documentation available

National Order Placement

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FPA BRONZE MEMBER Fire Protection Association Australia

www.scavengersupplies.com.au

Benefits - Grating FRP Australia

Strength

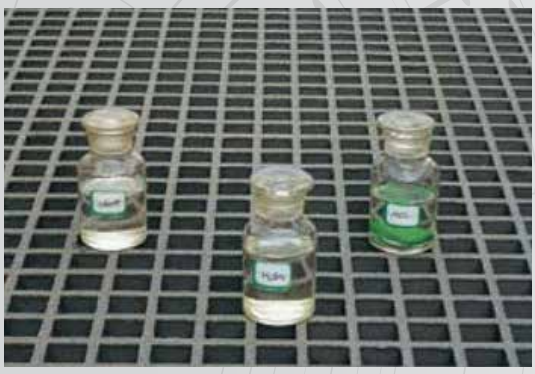
With one of the **highest strength-to-weight ratios** of any material, **Grating FRP Australia** fiberglass grating is **strong and durable**, ready for years of dependable use. Unlike steel, FRP Grating has **memory**, springing back to its original shape when deflected. Even major impacts inflict little damage without failure.

Refer to our grating load tables to select grating patterns and thickness suitable for each of your applications.

Corrosion Resistance

The key feature of **Grating FRP Australia** fiberglass grating is **corrosion resistant**. With a variety of premium resin systems, it is the choice for a wide range of corrosive environments. It will not rot, rust or corrode, providing many years of use with little or no maintenance. No scraping or painting required.

Refer to our Corrosion Resistance Chart for the resin system best for your application.



Slip Resistance

Slip and fall accidents are the single most expensive and common type of industrial accident. **Grating FRP Australia** provides **silica grit top** or **all-resin meniscus top**. Regain sure footing in slippery work areas.

Water, oils, detergents and food by products are no match for **Grating FRP Australia** **fiberglass grating, stair treads, stair covers** and **floor plates**.

Fabrication & Installation

Grating FRP Australia fiberglass grating products are **easily cut** with standard power tools, using masonry or diamond embedded blades. We recommend using a worm gear-driven circular saw, however standard tools can be used for most cutting. There is no steel cutting, banding or welding, all of which require specialized tools and often, facility permits.

Lightweight and **easy to handle**, it needs no special lifting or installation equipment.

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Benefits - Grating FRP Australia

Flexibility & Ergonomics

Do your employees notice the hardness of their work floor surfaces? This likely contributes to on the job fatigue. **Grating FRP Australia** fiberglass grating is naturally **flexible**, providing a comfortable, non-skid surface that is easy to stand on.

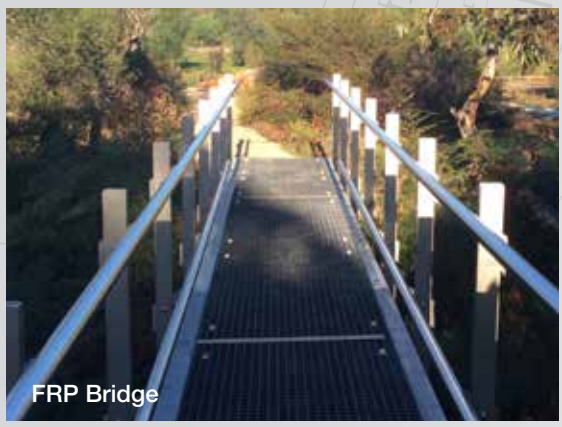
An **ergonomic work floor** reduces fatigue and injury, and increases productivity, contributing to better work environment.

Lightweight

Have you ever tired to lift a panel of steel grating without a crane or lift? Two men can easily and comfortably lift a 1220 x 3660mm panel of **Grating FRP Australia** fiberglass grating. The average weight is around 15 to 20 kilos per square metre.

Easy to carry and install, or remove for maintenance access and cleaning; simply unscrew the clips and lift out. No special lifting equipment required!

Exclusion-zone screening



FRP Bridge

Beach access

Boardwalk

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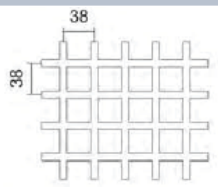
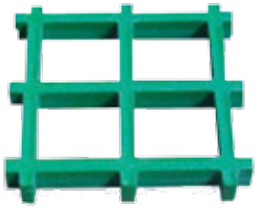
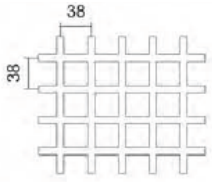
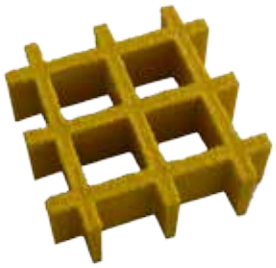
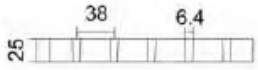
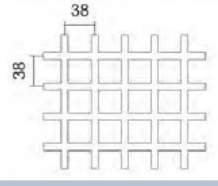
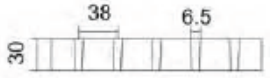
No.01 Thickness 13mm FRP Moulded Grating 13mm x 38mm x 38mm Square Mesh

Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness (top/bottom)		
6.0 / 5.0		
Bearing bar centre		
38		
Open area	**Elevation view**	
78%		
Approx. weight		
6.00 Kg/m²		
Load bars in both directions		

No.02 Thickness 25mm FRP Moulded Grating 25mm x 38mm x 38mm Square Mesh

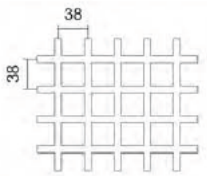
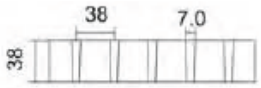
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness (top/bottom)		
6.4 / 5.0		
Bearing bar centre		
38		
Open area	**Elevation view**	
68%		
Approx. weight		
12.30 Kg/m²		
Load bars in both directions		

No.03 Thickness 30mm FRP Moulded Grating 30mm x 38mm x 38mm Square Mesh

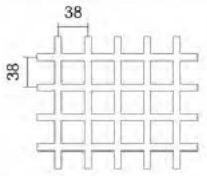
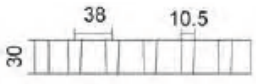
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness (top/bottom)		
6.5 / 5.0		
Bearing bar centre		
38		
Open area	**Elevation view**	
68%		
Approx. weight		
14.60 Kg/m²		
Load bars in both directions		

NOTE: Mould sizes and availability may change without notice. Contact our office for confirmation.

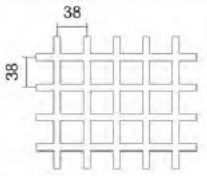
No.04 Thickness 38mm FRP Moulded Grating 38mm x 38mm x 38mm Square Mesh

Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness (top/bottom)		
7.0 / 5.0		
Bearing bar centre		
38		
Open area	**Elevation view**	
68%		
Approx. weight		
19.50 Kg/m²		
Load bars in both directions		

No.05 Thickness 30mm FRP Moulded Grating 30mm x 38mm x 38mm Square Mesh

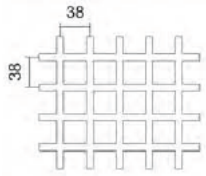
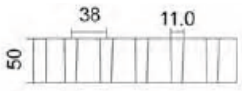
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness (top/bottom)		
10.5 / 9.0		
Bearing bar centre		
38		
Open area	**Elevation view**	
58%		
Approx. weight		
25.00 Kg/m²		
Load bars in both directions		

No.06 Thickness 35mm FRP Moulded Grating 35mm x 38mm x 38mm Square Mesh

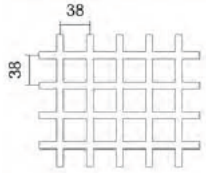
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness (top/bottom)		
10.5 / 9.0		
Bearing bar centre		
38		
Open area	**Elevation view**	
56%		
Approx. weight		
24.90 Kg/m²		
Load bars in both directions		

NOTE: Mould sizes and availability may change without notice. Contact our office for confirmation.

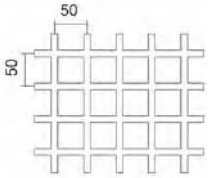
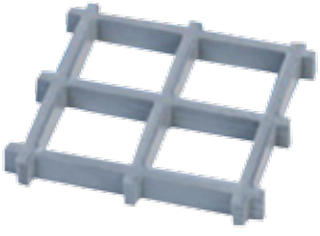
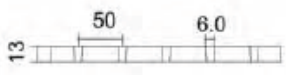
No.07 Thickness 50mm FRP Moulded Grating 50mm x 38mm x 38mm Square Mesh

Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness (top/bottom)		
11.0 / 9.0		
Bearing bar centre		
38		
Open area	**Elevation view**	
56%		
Approx. weight		
42 Kg/m²		
Load bars in both directions		

No.08 Thickness 60mm FRP Moulded Grating 60mm x 38mm x 38mm Square Mesh

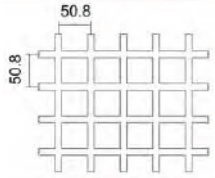
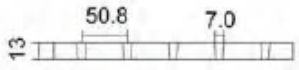
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness (top/bottom)		
11.5 / 9.0		
Bearing bar centre		
38		
Open area	**Elevation view**	
54%		
Approx. weight		
50.90 Kg/m²		
Load bars in both directions		

No.09 Thickness 13mm FRP Moulded Grating 13mm x 50mm x 50mm Square Mesh

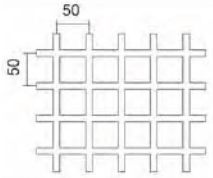
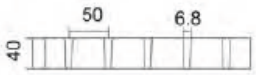
Grid type	Plan view	Photo
SM 50 x 50		
Bearing bar thickness (top/bottom)		
6.0 / 5.0		
Bearing bar centre		
50		
Open area	**Elevation view**	
82%		
Approx. weight		
4.80 Kg/m²		
Load bars in both directions		

NOTE: Mould sizes and availability may change without notice. Contact our office for confirmation.

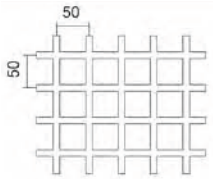
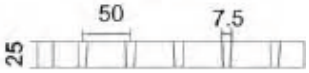
No.10 Thickness 13mm FRP Moulded Grating 13mm x 50.8mm x 50.8mm Square Mesh

Grid type	Plan view	Photo
SM 50.8 x 50.8		
Bearing bar thickness (top/bottom)		
7.0 / 6.0		
Bearing bar centre		
50.8		
Open area	**Elevation view**	
82%		
Approx. weight		
5.80 Kg/m²		
Load bars in both directions		

No.11 Thickness 40mm FRP Moulded Grating 40mm x 50mm x 50mm Square Mesh

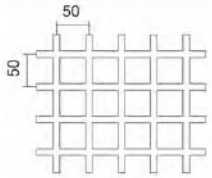
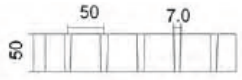
Grid type	Plan view	Photo
SM 50 x 50		
Bearing bar thickness (top/bottom)		
6.8 / 5.0		
Bearing bar centre		
50		
Open area	**Elevation view**	
80%		
Approx. weight		
15.82 Kg/m²		
Load bars in both directions		

No.12 Thickness 25mm FRP Moulded Grating 25mm x 50mm x 50mm Square Mesh

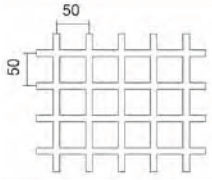
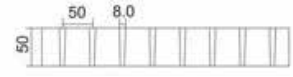
Grid type	Plan view	Photo
SM 50 x 50		
Bearing bar thickness (top/bottom)		
7.5 / 6.0		
Bearing bar centre		
50		
Open area	**Elevation view**	
78%		
Approx. weight		
11.50 Kg/m²		
Load bars in both directions		

NOTE: Mould sizes and availability may change without notice. Contact our office for confirmation.

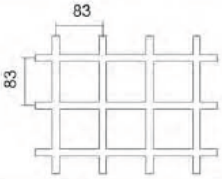
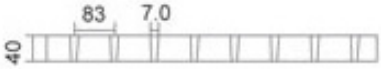
No.13 Thickness 50mm FRP Moulded Grating 50mm x 50mm x 50mm Square Mesh

Grid type	Plan view	Photo
SM 50 x 50		
Bearing bar thickness (top/bottom)		
7.0 / 5.0		
Bearing bar centre		
50		
Open area	**Elevation view**	
78%		
Approx. weight		
20.80 Kg/m²		
Load bars in both directions		

No.14 Thickness 50mm FRP Moulded Grating 50mm x 50mm x 50mm Square Mesh

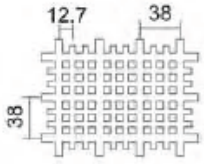
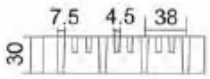
Grid type	Plan view	Photo
SM 50 x 50		
Bearing bar thickness (top/bottom)		
8.0 / 6.0		
Bearing bar centre		
50		
Open area	**Elevation view**	
78%		
Approx		
23.70 Kg/m²		
Load bars in both directions		

No.15 Thickness 40mm FRP Moulded Grating 40mm x 83mm x 83mm Square Mesh

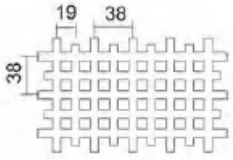
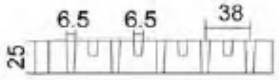
Grid type	Plan view	Photo
SM 83 x 83		
Bearing bar thickness (top/bottom)		
7.0 / 5.0		
Bearing bar centre		
83		
Open area	**Elevation view**	
84%		
Approx. weight		
9.50 Kg/m²		
Load bars in both directions		

NOTE: Mould sizes and availability may change without notice. Contact our office for confirmation.

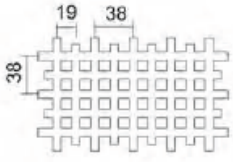
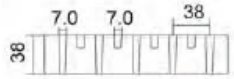
No.16 Thickness 30mm FRP Moulded Grating 30mm x 12.7mm x 12.7mm Micro Mesh

Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness (top/bottom)		
7.5 & 4.5 / 6.0		
Bearing bar centre		
12.7		
Open area	**Elevation view**	
30%		
Approx. weight		
22.00 Kg/m²		
Load bars in both directions		

No.17 Thickness 25mm FRP Moulded Grating 25mm x 19mm x 19mm Mini Mesh

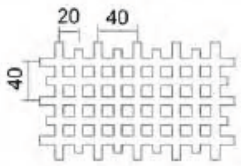
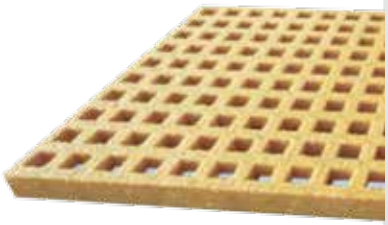
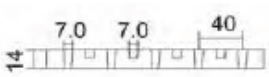
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness (top/bottom)		
6.5 / 5.0		
Bearing bar centre		
19		
Open area	**Elevation view**	
40%		
Approx. weight		
16.80 Kg/m²		
Load bars in both directions		

No.18 Thickness 38mm FRP Moulded Grating 38mm x 19mm x 19mm Mini Mesh

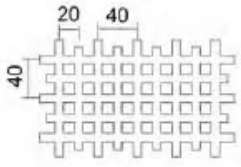
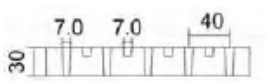
Grid type	Plan view	Photo
SM 38 x 38		
Bearing bar thickness (top/bottom)		
7.0 / 5.0		
Bearing bar centre		
19		
Open area	**Elevation view**	
40%		
Approx. weight		
23.50 Kg/m²		
Load bars in both directions		

NOTE: Mould sizes and availability may change without notice. Contact our office for confirmation.

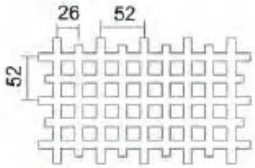
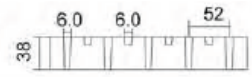
No.19 Thickness 14mm FRP Moulded Grating 14mm x 20mm x 20mm Mini Mesh

Grid type	Plan view	Photo
SM 40 x 40		
Bearing bar thickness (top/bottom)		
7.0 / 5.0		
Bearing bar centre		
20		
Open area	**Elevation view**	
42%		
Approx. weight		
10.50 Kg/m²		
Load bars in both directions		

No.20 Thickness 30mm FRP Moulded Grating 30mm x 20mm x 20mm Mini Mesh

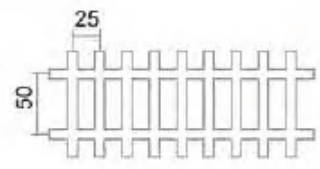
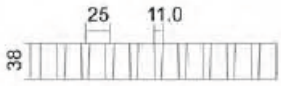
Grid type	Plan view	Photo
SM 40 x 40		
Bearing bar thickness (top/bottom)		
7.0 / 5.0		
Bearing bar centre		
20		
Open area	**Elevation view**	
42%		
Approx. weight		
18.00 Kg/m²		
Load bars in both directions		

No.21 Thickness 38mm FRP Moulded Grating 38mm x 26mm x 26mm Square Mesh

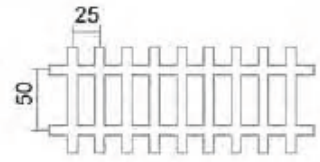
Grid type	Plan view	Photo
SM 52 x 52		
Bearing bar thickness (top/bottom)		
6.0 / 5.0		
Bearing bar centre		
25		
Open area	**Elevation view**	
60%		
Approx. weight		
19.50 Kg/m²		
Load bars in both directions		

NOTE: Mould sizes and availability may change without notice. Contact our office for confirmation.

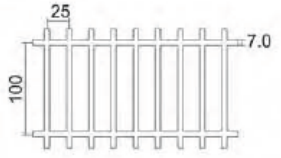
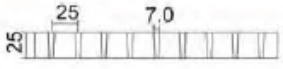
No.22 Thickness 38mm FRP Moulded Grating 38mm x 25mm x 50mm Rectangular Mesh

Grid type	Plan view	Photo
SM 25 x 50		
Bearing bar thickness (top/bottom)		
11.0 / 9.0		
Bearing bar centre		
25		
Open area	**Elevation view**	
48%		
Approx. weight		
30.30 Kg/m²		
Heavy duty load bars in length direction		

No.23 Thickness 50mm FRP Moulded Grating 50mm x 25mm x 50mm Rectangular Mesh

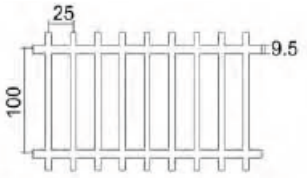
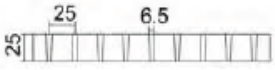
Grid type	Plan view	Photo
SM 25 x 50		
Bearing bar thickness (top/bottom)		
12.0 / 9.0		
Bearing bar centre		
25		
Open area	**Elevation view**	
48%		
Approx. weight		
41.00 Kg/m²		
Heavy duty load bars in length direction		

No.24 Thickness 25mm FRP Moulded Grating 25mm x 25mm x 100mm Rectangular Mesh

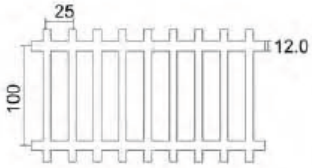
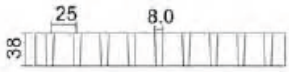
Grid type	Plan view	Photo
SM 25 x 100		
Bearing bar thickness (top/bottom)		
7.0 / 5.0		
Bearing bar centre		
25		
Open area	**Elevation view**	
67%		
Approx. weight		
13.00 Kg/m²		
Load bars in width direction		

NOTE: Mould sizes and availability may change without notice. Contact our office for confirmation.

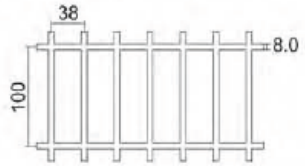
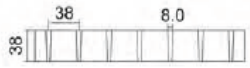
No.25 Thickness 25mm FRP Moulded Grating 25mm x 25mm x 100mm Rectangular Mesh

Grid type	Plan view	Photo
SM 25 x 100		
Bearing bar thickness (top/bottom)		
6.5 / 5.0		
Bearing bar centre		
25		
Open area	**Elevation view**	
67%		
Approx. weight		
13.83 Kg/m²		
Load bars in both directions		

No.26 Thickness 38mm FRP Moulded Grating 38mm x 25mm x 100mm Rectangular Mesh

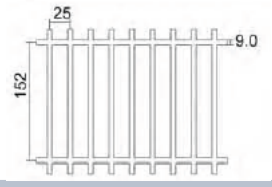
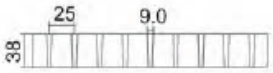
Grid type	Plan view	Photo
SM 25 x 100		
Bearing bar thickness (top/bottom)		
8.0 / 6.0		
Bearing bar centre		
25		
Open area	**Elevation view**	
62%		
Approx. weight		
22.50 Kg/m²		
Load bars in width direction		

No.27 Thickness 38mm FRP Moulded Grating 38mm x 38mm x 100mm Rectangular Mesh

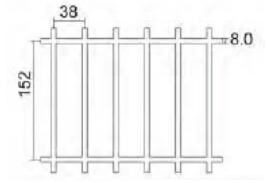
Grid type	Plan view	Photo
SM 38 x 100		
Bearing bar thickness (top/bottom)		
8.0 / 6.0		
Bearing bar centre		
38		
Open area	**Elevation view**	
65%		
Approx. weight		
16.40 Kg/m²		
Load bars in length direction		

NOTE: Mould sizes and availability may change without notice. Contact our office for confirmation.

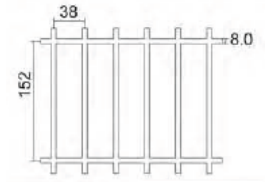
No.28 Thickness 38mm FRP Moulded Grating 38mm x 25mm x 152mm Rectangular Mesh

Grid type	Plan view	Photo
SM 25 x 152		
Bearing bar thickness (top/bottom)		
9.0 / 6.5		
Bearing bar centre		
25		
Open area	**Elevation view**	
63%		
Approx. weight		
22.50 Kg/m²		
Load bars in length direction		

No.29 Thickness 38mm FRP Moulded Grating 38mm x 38mm x 152mm Rectangular Mesh

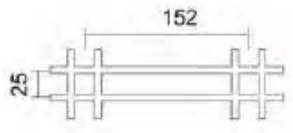
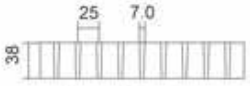
Grid type	Plan view	Photo
SM 38 x 152		
Bearing bar thickness (top/bottom)		
8.0 / 6.0		
Bearing bar centre		
38		
Open area	**Elevation view**	
67%		
Approx. weight		
15.92 Kg/m²		
Load bars in length direction		

No.30 Thickness 38mm FRP Moulded Grating 38mm x 38mm x 152mm Rectangular Mesh

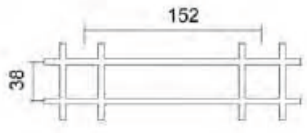
Grid type	Plan view	Photo
SM 38 x 152		
Bearing bar thickness (top/bottom)		
8.0 / 6.0		
Bearing bar centre		
38		
Open area	**Elevation view**	
67%		
Approx. weight		
15.92 Kg/m²		
Load bars in width direction		

NOTE: Mould sizes and availability may change without notice. Contact our office for confirmation.

No.31 Thickness 38mm FRP Moulded Grating 38mm x 25mm x 152mm Rectangular Mesh

Grid type	Plan view	Photo
SM 25 x 152		
Bearing bar thickness (top/bottom)		
7.0 / 5.0		
Bearing bar centre		
25		
Open area	**Elevation view**	
62%		
Approx. weight		
23.10 Kg/m²		
Load bars in length direction		

No.32 Thickness 38mm FRP Moulded Grating 38mm x 38mm x 152mm Rectangular Mesh

Grid type	Plan view	Photo
SM 38 x 152		
Bearing bar thickness (top/bottom)		
7.0 / 5.0		
Bearing bar centre		
38		
Open area	**Elevation view**	
65%		
Approx. weight		
17.00 Kg/m²		
Load bars in length direction		

NOTE: Mould sizes and availability may change without notice. Contact our office for confirmation.

Mini-mesh grating

For where solid flooring not permissible due to airflow requirements but where openings must be smaller than conventional Grating FRP Australia **products.**

Grating FRP Australia mini-mesh grating provides a 'middle of the road' solution.

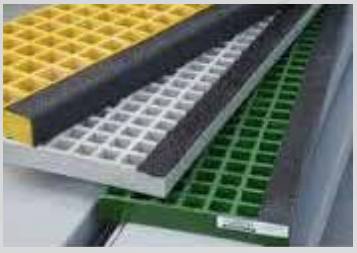
- One-fourth the opening of our standard 36mm square mesh gratings
- Smaller openings prevent objects as small as 13mm from falling through
- Because of closer spacing of the bearing bars, provide an easier flooring for pushing carts, drum dollies
- Complies with ADA requirements for wheelchair floorings.
- Lightweight and easily removable
- Corrosion resistant
- Provide for unobstructed airflow
- Meets the 15mm falling test for floorings (European safety requirement commonly used in some sectors of the offshore industry)

Stair tread covers

Grating FRP Australia **fiberglass stair tread covers provide an excellent alternative stair tread replacement, combining slip -resistance with corrosion resistance. Simply place the pre-moulded cover over existing stairs and secure using** Grating FRP Australia's **installation accessories.**

Quick and easy, instantly transforms worn out or damaged stair treads.

- Aluminum oxide grit surface provides an extremely slip-resistant stair tread, even when wet or oily for maximum safety.
- Integral yellow nosing allows for higher visibility reducing slip hazards and improving OSHA compliance, with minimum investment.
- The standard panel size for stair tread covers is 345mm deep to 3660mm long. Simply trim panel to desired depth and cut to the correct width.
- Grating FRP Australia stair tread covers can be per-fabricated to any depth and width ready-to-install from the factory.
- Fasten using mechanical fasteners to ensure a positive connection to the tread underneath. Low profile head fasteners and washer style clips are available in 316SS for installation.



Stair treads

Grating FRP Australia stair treads can be manufactured to comply to AS1657-2013 - Fixed platform and walkways, stairways and ladders. Made to measure with solid nosing. Please consult our offices for further information.

NOTE: Mould sizes and availability may change without notice. Contact our office for confirmation.

Technical Information Sheet

Resins

Grating FRP Australia offers a variety of PREMIUM resin choices to meet corrosion control needs. For more information on which resin works best in your application, please consult the chemical resistance chart or call for additional help.

TYPE VEFR-25: Premium vinyl ester resin. **Highest chemical resistant moulded product** offered in industry. Designed to withstand the harshest chemical environments over broad range of acids and caustics. Primarily used in petrochemical, waste water, mining, and plating applications where grating's subject to frequent and direct contact with harsh chemicals.

Type VEFR-10: Manufactured with same high quality vinyl ester resin but has enhanced flame spread rating for applications requiring higher flame resistance, such as offshore platforms.

Flame spread rating: *VEFR*-25 - 25 or less *VEFR*-10 - 10 or less
Standard colour: *VEFR*-25 - Orange *VEFR*-10 - Dark grey

TYPE IFR-25: Premium isophthalic polyester resin. **Intermediate level** of chemical resistance. Correct resin choice for grating subjected to splash and spill contact with harsh chemicals. Very good **general purpose resin** at a reduced cost compared to premium vinyl ester resin.

Type IFR-10: Same high quality isophthalic polyester resin but with enhanced flame spread rating.

Flame spread rating: *IFR*-25 - 25 or less *IFR*10 - 10
Standard colour: *IFR*-25 - Green *IFR*-10 - Dark grey

TYPE FG-30: **Grating FRP Australia's** moulded grating, manufactured using premium food grade polyester resin. Contains no harmful Ingredients. Certified by the resin manufacturer. Each panel is post cured and detergent washed prior to shipping.

Flame spread rating: 30 or less
Standard colour: Light grey

TYPE CFR-25: Orthophthalic polyester resin providing **moderate chemical resistance**. Perfect for use in water/waste water applications, light industrial applications, and wave zone areas of offshore platforms where the environment is moderate. Although Type CFR-25 is the **least chemical resistant** resin, it still offers superior performance on traditional flooring products such as steel, aluminum and wood is the **most economical** resin available.

Type CFR-10 is an orthophthalic polyester resin.

Flame spread rating: *CFR*-25 - 25 or less *CFR*-10 -10 (available on request)
Standard colour: *CFR*-25 - Yellow and dark grey *IFR*-10 - Dark grey

TYPE MP-5: **Grating FRP Australia's** moulded phenolic grating for when fire resistance, low smoke generation and low toxic fumes are critical. Tested in accordance with **ASTM E-84**. Typically used in confined spaces, subways and offshore.

Flame spread rating: 5
Smoke density rating: 5
Standard colour: Chocolate brown (phenolic painting of the grating can be performed to obtain a light grey finish)

CONDUCTIVE TOP GRATING: **All Grating FRP Australia moulded grating products can be provided with a specially formulated carbon black surface, eliminating hazardous static electricity when properly grounded. Available with all above resins.**

Grating FRP Australia conductive gratings are primarily used in the high-tech electronic industries, munitions and arsenal manufacturing plants and other sparking sensitive environments where sophisticated equipment may be damaged due to static electricity.

Surface electric resistance: 1 x 10^5 ohms to 5 x10^5 ohms
Grounding requirements: Please call our engineering staff via our office.

Note: No resin blending is carried out in the manufacture of our grating ensuring superior product, we insist that our sheets are constructed from 100% Aluminium Hydroxide combined with UV9 inhibitor during the manufacturing process. Special resins available upon request. Various resin formulas are offered to meet different flame spread ratings, temperature ranges and corrosion resistance. Please refer to the Chemical Resistance Chart for more information. Call our office for more details and to discuss your particular application.

Technical Information Sheet

Surfaces

Slip/fall accidents are one of the greatest dangers in industrial environments, costing employers time and money. Grating FRP Australia offers a wide variety of surfaces that assist in eliminating dangers.

Smooth

Gritted

Concave

Checkered

Colours

An assortment of standard colours available. Visit: *www.RALcolours.com* for selection.

Contact us to discuss your requirements. (Note that some colours may not be possible.)

Engineering support

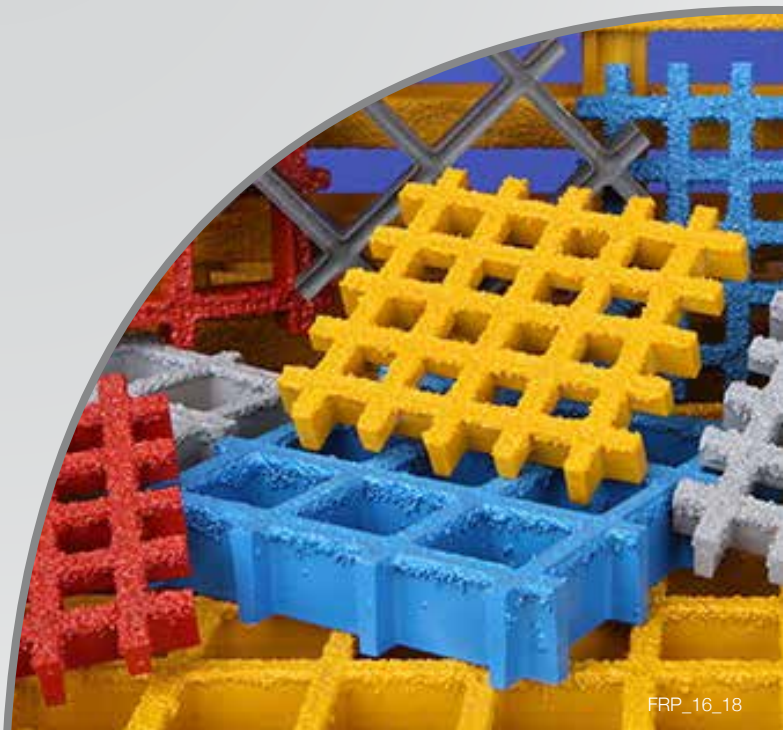
Grating FRP Australia's in-house engineering design, drafting and certification ensures custom projects meet specifications with quality and accuracy for every phase of design, fabrication and installation.

Code compliant

Grating FRP Australia's profiles meet or exceed these specifications and building codes:

OSHA: Section 1910.23

BOCA Basic Building Code: Section 1615.8



Call WA 08 9584 2500
NSW 02 4244 1008
www.scavengersupplies.com.au

FRP_16_18

Installation Accessories

Grating FRP Australia offers a variety of hold-down clips to secure grating to structural supports. Each clip is specifically designed for our grating and plate products. All clips are made of **316SS**, to maintain maximum corrosion resistance.

Installation wherever possible, provides for a minimum of 40mm bearing support of all grating supports.

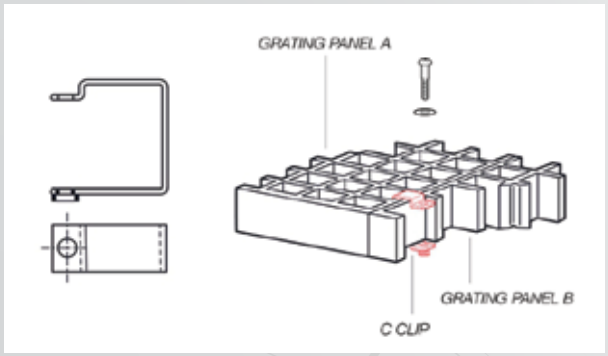
Use hold down clips at the rate of one clip for every 0.6 sq metre of grating or at least four clips / sq metre.

Type C-Clips - end panel

For moulded FRP Grating

Joins adjacent panels of grating together between supports.

Minimises different deflection under load.

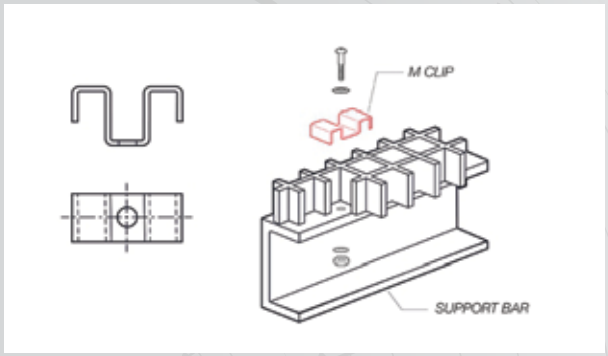


Type M-Clip - all types

For all types of moulded FRP Grating

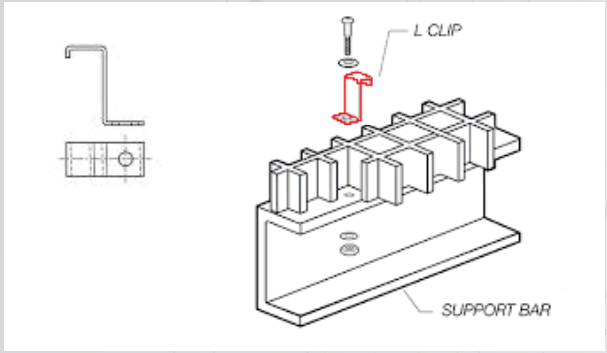
Recommendation:

- Two clips at each support
- Four clips minimum per panel (1220 x 3660mm)
- Cross-bars may have to be cut during installation



Type L-Clip

For use in securing FRP Moulded Grating to support frames



Beam Clamp

For use in securing FRP Moulded Grating to support frames

gratingfrp

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FRP GRATING AUSTRALIA CHEMICAL RESISTANCE CHART www.scavengersupplies.com.au

CHEMICAL ENVIRONMENT	TYPE VEFR-25 VINYL ESTER RESIN		TYPE IFR-25 ISOPHTHALIC POLYESTER		CHEMICAL ENVI-RONMENT	TYPE "VEFR-25" VINYL ESTER RESIN		TYPE IFR-25 ISOPHTHALIC POLYESTER	
	% CONCENTRATION	MAX. OPER. TEMP F/C	% CONCENTRATION	MAX. OPER. TEMP F/C		% CONCENTRATION	MAX. OPER. TEMP F/C	% CONCENTRATION	MAX. OPER. TEMP F/C
Acetic Acid	50	180/82	50	125/52	Magnesium Chloride	All	210/99	All	170/77
Aluminum Hydroxide	100	180/82	100	160/71	Magnesium Nitrate	All	210/99	All	140/60
Ammonium Chloride	All	210/99	All	170/77	Magnesium Sulfate	All	210/99	All	170/77
Ammonium Hydroxide	28	100/38	28	N/R	Mercuric Chloride	100	210/99	100	150/66
Ammonium Bicarbonate	50	160/70	15	125/52	Mercurous Chloride	All	210/99	All	140/60
Ammonium Sulfate	All	210/99	All	170/77	Nickel Chloride	All	210/99	All	170/77
Benzene	N/R	N/R	N/R	N/R	Nickel Sulfate	All	210/99	All	170/77
Benzoic Acid	SAT	210/99	SAT	150/66	Nitric Acid	20	120/49	20	70/21
Borax	SAT	210/99	SAT	170/77	Oxalic Acid	All	210/99	All	75/24
Calcium Carbonate	All	180/82	All	170/77	Perchloric Acid	30	100/38	N/R	N/R
Calcium Nitrate	All	210/99	All	180/82	Phosphoric Acid	100	210/99	100	120/49
Carbon Tetrachloride	100	150/65	N/R	N/R	Potassium Chloride	All	210/99	All	170/77
Chlorine, Dry Gas	-	210/99	-	140/60	Potassium Di-chromate	All	210/99	All	170/77
Chlorine Water	SAT	200/93	SAT	80/27	Potassium Nitrate	All	210/99	All	170/77
Chromic Acid	10	150/65	5	70/21	Potassium Sulfate	All	210/99	All	170/77
Citric Acid	All	210/99	All	170/77	Propylene Glycol	All	210/99	All	170/77
Copper Chloride	All	210/99	All	170/77	Sodium Acetate	All	210/99	All	160/71
Copper Cyanide	All	210/99	All	170/77	Sodium Bi sulfate	All	210/99	All	170/77
Copper Nitrate	All	210/99	All	170/77	Sodium Bromide	All	210/99	All	170/77
Ethanol	50	100/38	50	75/24	Sodium Cyanide	All	210/99	All	170/77
Ethylene Glycol	100	200/93	100	90/32	Sodium Hydroxide	25	180/82	N/R	N/R
Ferric Chloride	All	210/99	All	170/77	Sodium Nitrate	All	210/99	All	170/77
Ferrous Chloride	All	210/99	All	170/77	Sodium Sulfate	All	210/99	All	170/77
Formaldehyde	All	150/65	50	75/24	Stannic Chloride	All	210/99	All	160/71
Gasoline	100	180/82	100	80/27	Sulfuric Acid	75	100/38	25	75/24
Glucose	100	210/99	100	170/77	Tartaric Acid	All	210/99	All	170/77
Glycerin	100	210/99	100	150/66	Vinegar	100	210/99	100	170/77
Hydrobromic Acid	50	150/65	50	120/49	Water, Distilled	100	180/82	100	170/77
Hydrochloric Acid	37	150/65	37	75/24	Zinc Nitrate	All	210/99	All	170/77
Hydrogen Peroxide	30	150/65	5	100/38	Zinc Sulfate	All	210/99	All	170/77
Lactic Acid	All	210/99	All	170/77					
Lithium Chloride	SAT	210/99	SAT	150/66					

All…All Concentrations | SAT… Saturated Solutions | N/R…Not Recommended | No…Information Available

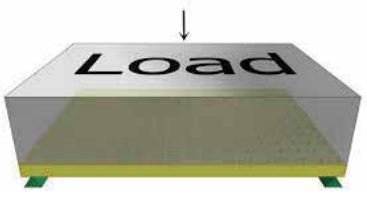
PLEASE NOTE: The corrosion reference data listed above is for general information only. Resin manufacturers have provided test data which indicates that the specific resin can withstand the corrosion conditions listed above. Grating FRP Australia believes the data to be true and accurate but no guarantee is expressed or implied as to specific performance. Testing for specific environments is recommended. Our responsibility for claims arising from breach of warranty, negligence or otherwise is limited to the price of the material sold by Scavenger Supplies and Grating FRP Australia.

MOULDED GRATING LOAD TABLES

UNIFORMED LOAD TABLES - Deflection in millimeters

SPAN IN mm	MESH SIZE	THICKNESS	UNIFORM LOAD - kg/m² (300mm wide)							UNIFORM LOAD under 1% deflection kg/m²
			98	122	244	367	489	733	977	
305	38.1 x 38.1	15	0.29	0.36	0.73	1.10	1.46	2.19	2.93	1020
	38.1 x 38.1	25.4	0.06	0.08	0.15	0.23	0.29	0.46	0.60	4956
	25 x 100	25.4	0.03	0.03	0.06	0.10	0.13	0.19	0.26	11637
	40 x 40	25	0.07	0.09	0.17	0.26	0.34	0.51	0.69	4336
	38.1 x 38.1	38.1	0.02	0.03	0.05	0.08	0.11	0.16	0.21	14270
	25 x 152	38.1	0.01	0.02	0.03	0.05	0.07	0.10	0.14	21450
	40 x 40	40	0.02	0.02	0.05	0.07	0.01	0.15	0.19	15210
457	38.1 x 38.1	15	0.74	0.92	1.84	2.77	3.69	5.53	7.37	606
	38.1 x 38.1	25.4	0.15	0.19	0.39	0.56	0.76	1.14	1.52	2943
	25 x 100	25.4	0.09	0.12	0.25	0.36	0.48	0.73	0.96	4656
	40 x 40	25	0.17	0.22	0.43	0.65	0.89	1.31	1.73	2575
	40 x 40 (20 x 20)	30	0.09	0.11	0.21	0.31	0.43	0.65	0.87	5131
	38.1 x 38.1	38.1	0.05	0.07	0.14	0.22	0.27	0.41	0.55	8163
	25 x 152	38.1	0.04	0.05	0.09	0.14	0.18	0.27	0.37	12244
	40 x 40	40	0.05	0.07	0.13	0.20	0.26	0.41	0.53	8441
	40 x 40 (20 x 20)	40	0.03	0.05	0.09	0.14	0.18	0.27	0.37	12162
	50.7 x 50.7	50.8	0.03	0.03	0.07	0.11	0.14	0.22	0.29	15964
610	38.1 x 38.1	15	2.37	2.95	5.91	8.89	-	-	-	252
	38.1 x 38.1	25.4	0.49	0.61	1.21	1.84	2.44	3.65	4.87	1224
	25 x 100	25.4	0.29	0.37	0.73	1.10	1.47	2.21	2.93	2035
	40 x 40	25	0.50	0.62	1.25	1.87	2.51	3.75	4.99	1194
	40 x 40 (20 x 20)	30	0.29	0.36	0.72	1.08	1.44	2.18	2.87	2069
	38.1 x 38.1	38.1	0.14	0.18	0.37	0.55	0.73	1.08	1.44	4140
	25 x 152	38.1	0.10	0.12	0.25	0.37	0.47	0.72	0.97	6210
	40 x 40	40	0.12	0.15	0.31	0.46	0.61	0.92	1.23	4889
	40x40 (20x20)	40	0.12	0.15	0.30	0.46	0.59	0.91	1.21	4904
	50.7 x 50.7	50.8	0.08	0.01	0.19	0.30	0.40	0.61	0.79	7461
914	38.1 x 38.1	25.4	2.60	2.81	5.62	8.45	11.25	-	-	397
	25 x 100	25.4	1.57	1.95	3.92	5.86	7.82	11.73	-	572
	40 x 40	25	2.53	3.15	6.31	9.48	-	-	-	354
	40 x 40 (20 x 20)	30	1.24	1.56	3.10	4.67	6.22	9.34	12.43	718
	38.1 x 38.1	38.1	0.63	0.78	1.57	2.36	3.15	4.71	6.28	1421
	25 x 152	38.1	0.42	0.52	1.05	1.57	2.12	3.15	4.19	2131
	40 x 40	40	0.62	0.77	1.56	2.31	3.08	4.62	6.15	1452
	40 x 40 (20 x 20)	40	0.53	0.66	1.31	1.97	2.63	3.92	5.26	1700
	50.7 x 50.7	50.8	0.35	0.44	0.87	1.32	1.76	2.63	3.51	2545
1000	25 x 100	25.4	2.19	2.73	5.45	8.21	10.94	-	-	447
	40 x 40	25	3.55	4.42	8.86	-	-	-	-	276
	40 x 40 (20 x 20)	30	1.88	2.34	4.67	7.06	9.40	-	-	520
	40 x 40	40	0.86	1.08	2.15	3.24	4.32	6.47	8.62	1133
	40 x 40 (20 x 20)	40	0.79	0.99	1.97	2.95	3.96	5.94	7.91	1234

NOTES - PLEASE SEE OTHER SIDE



MOULDED GRATING LOAD TABLES

UNIFORMED LOAD TABLES - Deflection in millimeters

SPAN IN mm	MESH SIZE	THICKNESS	UNIFORM LOAD - kg/m² (300mm wide)							UNIFORM LOAD under 1% deflection kg/m²
			98	122	244	367	489	733	977	
1219	38.1 x 38.1	25.4	7.47	9.29	-	-	-	-	-	160
	38.1 x 38.1	38.1	2.12	2.64	5.29	7.95	10.59	-	-	563
	25 x 152	38.1	1.42	1.76	3.52	5.30	7.06	10.59	-	844
	40 x 40	40	1.81	2.25	4.51	6.77	9.02	13.52	-	661
	40 x 40 (20 x 20)	40	1.75	2.19	4.37	6.58	8.75	13.14	-	680
	50.7 x 50.7	50.8	1.08	1.35	2.69	4.05	5.39	8.09	10.78	1105
1372	38.1 x 38.1	38.1	3.41	4.25	8.52	12.95	-	-	-	394
	25 x 152	38.1	2.27	2.83	5.65	8.51	11.33	-	-	592
	50.7 x 50.7	50.8	1.73	2.16	4.34	6.51	8.67	12.97	-	775
1524	38.1 x 38.1	38.1	5.18	6.46	12.91	-	-	-	-	288
	25 x 152	38.1	3.46	4.30	8.61	12.95	-	-	-	432
	50.7 x 50.7	50.8	2.64	3.29	6.58	9.90	13.19	-	-	565

Notes (for UNIFORMED and CONCENTRATED LINE loads)

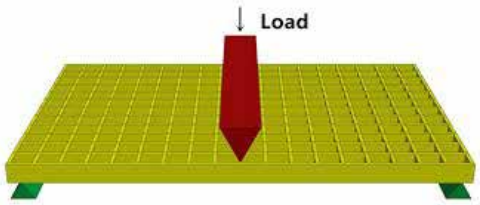
1. **Designer must not exceed maximum recommended load at anytime.**

2. **Allowable loads** are for **static load conditions** at ambient temperatures. Allowable loads for impact or dynamic loads should be a maximum of **one half** value shown. Long term loads will result in added deflection due to creep in material and require higher safety factors to ensure acceptable performance.

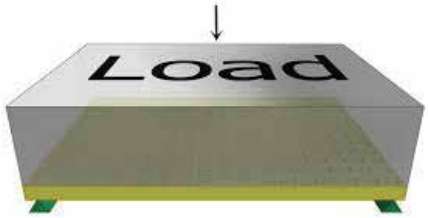
3. **Elevated temperatures** can alter the performance of all FRP products.

4. **Load tables for reference only.** Grating FRP Australia will not be responsible for the use of these tables, and cannot warrant performance. Please call our offices if you required further assistance.

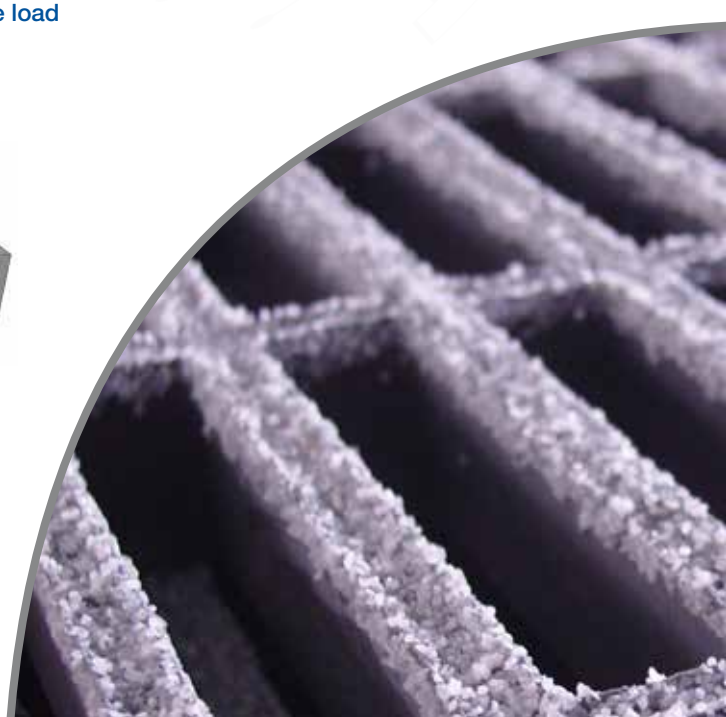
5. **Due to different project applications and environments in relation to using load tables**, it is advised that you consult with our technical team to assist with ordering the correct product.



Concentrated line load



Uniformed load



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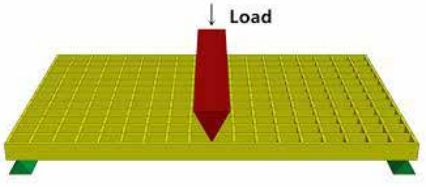
MOULDED GRATING LOAD TABLES

CONCENTRATED LINE LOAD TABLES - Deflection in millimeters

SPAN IN mm	MESH SIZE	THICKNESS	Concentrated Line Load (kg/300mm) Full Panel (300mm wide)							CONCENTRATED LINE LOAD under 1% deflection (kg/300mm)
			45	114	227	341	454	681	908	
305	38.1 x 38.1	15	0.98	2.49	4.96	7.43	9.88	-	-	140
	38.1 x 38.1	25.4	0.24	0.51	1.02	1.52	2.03	3.03	4.05	683
	25 x 100	25.4	0.14	0.34	0.69	1.02	1.36	2.05	2.73	1015
	40 x 40	25	0.27	0.69	1.37	2.06	2.75	4.10	5.50	505
	38.1 x 38.1	38.1	0.10	0.24	0.49	0.71	0.95	1.42	1.90	1457
	25 x 152	38.1	0.09	0.17	0.32	0.48	0.63	0.96	1.27	2185
	40 x 40	40	0.09	0.22	0.45	0.65	0.89	1.33	1.77	1567
	50.7 x 50.7	50.8	0.06	0.16	0.31	0.48	0.63	0.95	1.27	2183
457	38.1 x 38.1	15	3.37	8.54	-	-	-	-	-	61
	38.1 x 38.1	25.4	0.69	1.75	3.49	5.25	6.99	10.49	-	297
	25 x 100	25.4	0.43	1.08	2.17	3.25	4.33	6.50	8.65	479
	40 x 40	25	0.82	2.07	4.12	6.18	8.23	12.35	-	252
	40 x 40 (20 x 20)	30	0.42	1.07	2.12	3.19	4.24	6.36	8.49	489
	38.1 x 38.1	38.1	0.21	0.52	1.04	1.57	2.07	3.12	4.16	998
	25 x 152	38.1	0.15	0.37	0.74	1.12	1.47	2.21	2.95	1407
	40 x 40	40	0.20	0.51	1.01	1.51	2.01	3.03	4.02	1032
	40 x 40 (20 x 20)	40	0.18	0.45	0.90	1.34	1.79	2.69	3.57	1159
	50.7 x 50.7	50.8	0.13	0.33	0.67	1.01	1.33	2.01	2.67	1552
610	38.1 x 38.1	15	8.33	-	-	-	-	-	-	33
	38.1 x 38.1	25.4	1.74	4.40	8.76	-	-	-	-	158
	25 x 100	25.4	1.11	2.80	5.58	8.39	11.17	-	-	248
	40 x 40	25	1.77	4.49	8.93	13.42	-	-	-	155
	40 x 40 (20 x 20)	30	1.08	2.75	5.47	8.22	10.95	-	-	253
	38.1 x 38.1	38.1	0.50	1.26	2.51	3.77	5.02	7.53	10.03	552
	25 x 152	38.1	0.35	0.88	1.75	2.63	3.51	5.26	7.01	790
	40 x 40	40	0.47	1.18	2.38	3.54	4.72	7.08	9.45	587
	40x40 (20x20)	40	0.46	1.16	2.31	3.47	4.62	6.93	9.25	599
	50.7x50.7	50.8	0.31	0.77	1.55	2.32	3.08	4.64	6.18	896
914	38.1 x 38.1	25.4	5.79	-	-	-	-	-	-	71
	25 x 100	25.4	3.92	9.92	-	-	-	-	-	105
	40 x 40	25	6.14	-	-	-	-	-	-	67
	40x40 (20x20)	30	3.19	8.08	-	-	-	-	-	129
	38.1 x 38.1	38.1	1.68	4.25	8.47	12.72	-	-	-	245
	25 x 152	38.1	1.17	2.96	5.89	8.85	11.79	-	-	352
	40 x 40	40	1.50	3.79	7.54	11.33	-	-	-	275
	40x40 (20x20)	40	1.35	3.42	6.80	10.22	13.60	-	-	305
	50.7 x 50.7	50.8	0.99	2.49	4.97	7.47	9.95	14.93	-	417

NOTES - PLEASE SEE OTHER SIDE



MOULDED GRATING LOAD TABLES

CONCENTRATED LINE LOAD TABLES - Deflection in millimeters

SPAN IN mm	MESH SIZE	THICKNESS	Concentrated Line Load (kg/300mm) Full Panel (300mm wide)							CONCENTRATED LINE LOAD under 1% deflection (kg/300mm)
			45	114	227	341	454	681	908	
1000	25 x 100	25.4	5.00	12.67	-	-	-	-	-	90
	40 x 40	25	7.89	-	-	-	-	-	-	57
	40 x 40 (20 x 20)	30	4.09	10.36	-	-	-	-	-	110
	40 x 40	40	1.94	4.91	9.78	-	-	-	-	232
	40 x 40 (20 x 20)	40	1.73	4.38	8.73	13.11	-	-	-	260
1219	38.1 x 38.1	38.1	4.00	10.14	-	-	-	-	-	137
	25 x 152	38.1	2.77	7.02	13.97	-	-	-	-	198
	40 x 40	40	3.98	10.07	-	-	-	-	-	138
	40 x 40 (20 x 20)	40	3.13	7.94	15.81	-	-	-	-	175
	50.7 x 50.7	50.8	2.30	5.84	11.63	-	-	-	-	238
1372	38.1 x 38.1	38.1	5.72	14.48	-	-	-	-	-	108
	25 x 152	38.1	3.96	10.03	-	-	-	-	-	156
	50.7 x 50.7	50.8	3.28	8.32	16.57	-	-	-	-	188
1524	38.1 x 38.1	38.1	7.79	-	-	-	-	-	-	88
	25 x 152	38.1	5.44	13.79	-	-	-	-	-	126
	50.7 x 50.7	50.8	4.51	11.43	-	-	-	-	-	152

Notes (for UNIFORMED and CONCENTRATED LINE loads)

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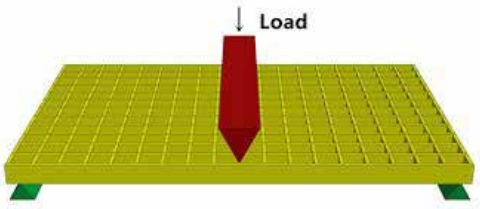
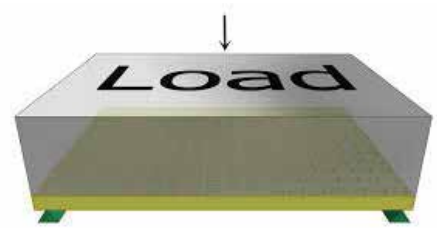
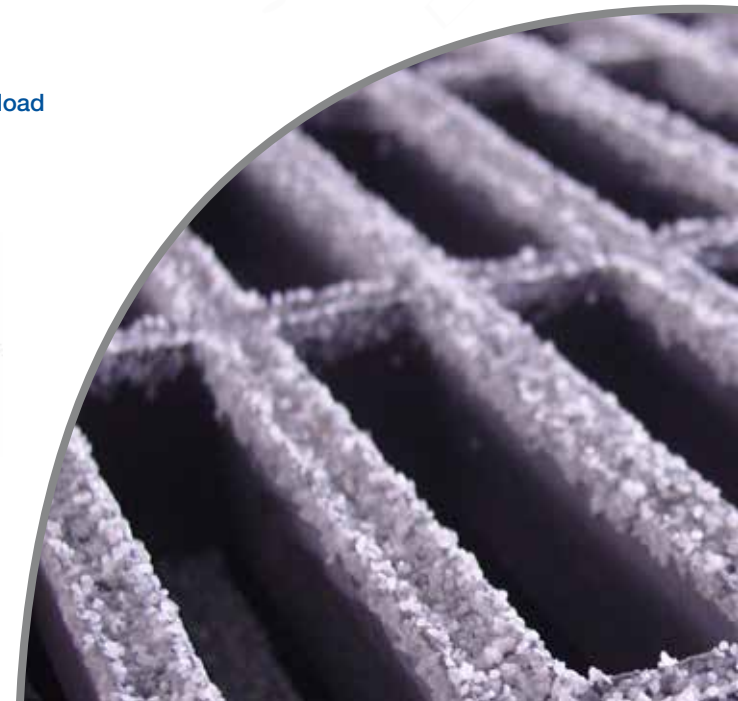


Concentrated line load



Uniformed load



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Benefits of fiberglass grating

Fire resistance

Available in various resin systems, two of which meet the Class 1 Flame Spread Rating of 25 or less, in accordance with ASTM E-84 Tunnel Test Method. If a flame spread of 10 or less is required, a custom phenolic resin system can be supplied.

Cost savings

In a review of costs, fiberglass grating showed significant savings over the use of stainless steel. When consideration is given to life-cycle costs, combining anti-slip benefits, the saving over use of metal is considerable.

Non-slip

Its integral grit top surface provides outstanding anti-slip protection for personnel, in wet and oily environments. Embedded deeply into the top surface of each panel prior to curing ensures a long-lasting maximum anti-slip top surface.

Non-sparking

Ideally suited for installations where hydrogen or other combustible gases may be found, which may explode or cause fire from sparks produced from accidental dropping of tools onto grating.

Raised floors

Many plant operations require slightly elevated floor grating. Fixed or adjustable pedestals can be used for applications up to 600mm high. Plastic insert mouldings, which raise the panels 7mm off the floor, are ideal for allowing for liquid drainage.

Low installation costs

Weighs considerably less than conventional metal gratings, so is easier and cheaper to transport, install and remove. Only simple hand tools required for installation and removal; no expensive equipment or the labour costs associated with heavy cutting and lifting, and welding.

Impact resistance

Allows for a certain amount of repeated deflection without permanent deformation. A certain amount is allowable with loading, however when loading is removed, it returns to original shape. Metallic grating remains deformed, requiring costly repair or replacement. (Loading / deflection tables available on request.)

Design benefits

Design procedures entirely different than with other materials. Prime consideration is allowable 'deflection', versus ultimate loading with steel and aluminium. The inherent elasticity of reinforced plastic permits greater deflection than steel without danger of structural failure. (Load and deflection table available on request.)

Mechanical strength

Exceptional breaking strength under a lateral force. The unidirectional continuous fiberglass reinforcement offers many advantages: rigidity, shock-resistance, no permanent deformation after over-loading. Provides excellent mechanical strength and generous safety factor in intensive industrial use.

Maintenance free

Virtually eliminates maintenance costs. Painting is not required. UV inhibitors protect against degradation from sun.

Non-conductive

Non-conductive properties make it suited for work platforms and flooring situated in electrically hazardous locations.

38mm Standard bearing surface

Standard bearing surfaces on most installations requires a minimum of 38mm support under the edges of fiberglass grating panels.

Superior strength

The high glass-to-resin ration provides superior strength and load-bearing characteristics. The structural integrity protected by unique corrosion resistance capabilities, means it lasts longer than traditional materials.

Lightweight

Weighs about 1/4 of steel grating. Two people can easily handle full panels without need for hoists, pulleys or dollies. Less chance of back injuries when removing for maintenance, cleaning or utility access. Reduces installation and fabrication costs. Weighs only 12 kilos per square metre (25mm) or 18 kilos per square metre (38mm).

Non-magnetic

Non-magnetic properties allow the grating to be used in sensitive installations where inherent magnetic properties or metallic grating would prove unsuitable.

Conductive grating

Provides specially formulated carbon black surface, eliminating hazardous static electricity when properly grounded. Advantageous in high-tech electronic industries where sophisticated equipment may be damaged. Safe environment in combustible areas: railway fuel stations, circuit board manufacturing, oil refineries, underground mining operations, ammunition factories etc. Surface electric resistance is 1 x $10^5\Omega$ to 5 x $10^5\Omega$.

Corrosion resistance

Guards against deterioration from industrial chemicals and environments, making it a logical and cost-effective alternative to carbon steel, aluminium, wood or other conventional materials. Whether exposed to continuous submersion, splash, spills, fumes or gases, be assured it outperforms other mediums. (A comprehensive chemical resistance guide is available on request.)

High performance

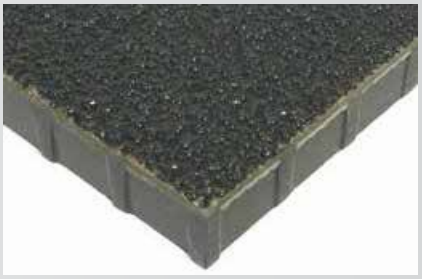
Composite structural material have demonstrated a proven ability to withstand harsh side effects of corrosive conditions better than galvanised steel. Reliably used in traditionally corrosive industries such as chemical processing, plating and marine construction. Beyond material purchase price, an important factor of course, engineers also consider relative cost of installation, maintenance over time and replacement of debilitated materials.

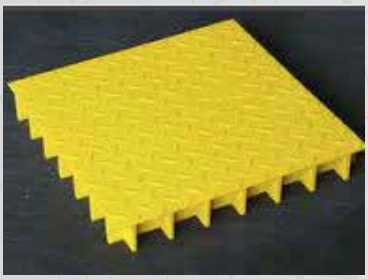
Covered grating

Grating FRP Australia **covered grating is a one-piece moulded grating, combing the solid surface of plate and structured support of moulded grating.**

Available In a variety of thicknesses, ranging from 25mm to 54mm.

- Grit top surface is standard on all covered grating products, creating a safe walking surface. Checker plate gratings are welcome too.
- Ideal for applications requiring no permeation of the grating. Whether over a food process or for reducing fumes and odours, meets the needs for solid surface decking.
- Corrosion and slip resistant.
- Used in areas where cart wheels or shoe heels might have difficulty over standard open mesh grating.
- Available in same resin systems as our standard grating and colours. Custom resin and colours available for special orders.
- Available in Smooth, Grit Grades 1 - 7, Checker Plate.





Fiberglass plate

Made by laminating sheets of fiberglass woven with Grating FRP Australia**'s high quality resin system.**

- Grit top surface standard on all plate products, providing excellent anti-slip walking surface.
- Lightweight and easy to cut, making Installation easy and inexpensive.
- Available in same resin systems as our standard rating and colours. Custom resin and colours available for special orders.
- Available in Smooth, Grit Grades 1 - 7, Checker Plate.

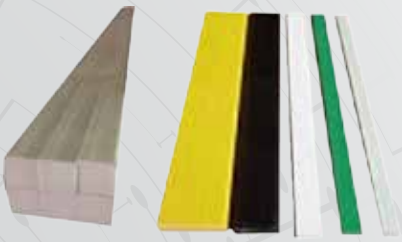
Grating FRP Australia's **fiberglass plate and covered grating should be installed using mechanical fasteners.** Grating FRP Australia **can supply the ideal fasteners that provide a solid anchor point and eliminate slipping hazards associated with higher profile fasteners.**

Structural shapes

Grating FRP Australia **offers a wide selection of structural shapes to complement our fiberglass grating. Fiberglass structured shapes have one of the newest strength-to-weight ratios of any structural product, plus superior corrosion resistance.**

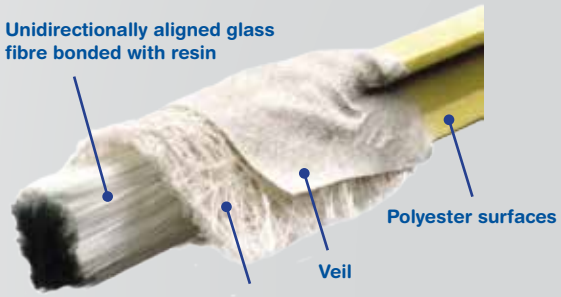
Manufactured using pultrusion process. Glass mat and roving are drawn through a resin bath and pulled through a heated die to form the desired shape. This process can yield almost any profile shape commonly used in structural construction.

- Dimensionally stable, as well as thermally and electrically non-conductive.
- Easy to fabricate as well as lightweight, fiberglass structural shapes are easy to install, reducing costs associated with special lift equipment and tools.
- Available in a wide variety of shapes, including L beam, equal angle, channel, square tube, round tube, concrete embedment angle.
- Available in a variety of sizes for use in areas where traditional metal embedment angle may corrode prematurely.
- Available in two main resins: VER3-25, a vinyl ester resin with superior corrosion properties or IFR-25, a premium polyester resin. Both have a standard flame spread rating of 25 or less as per ASTM E-&4.
- Special resins available upon request.

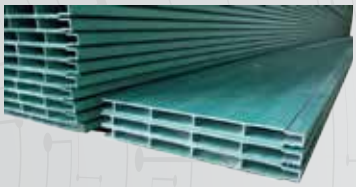


Square Bar

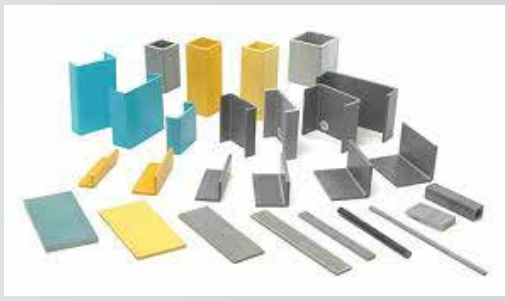
Flat Strip

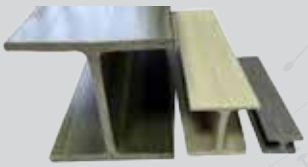


Round Tube



Weenar Plank / Deck





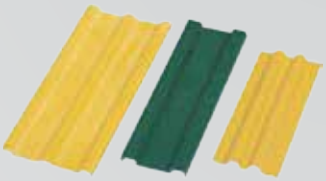
Wide Flange Beam

Round Bar

I - Beam

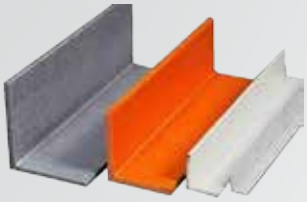
Rectangular Tube

C-Channel



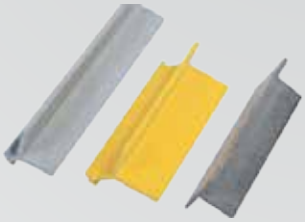
Kick Plate

Square Tube



Equal Angle

Fluted Tube



Embedment Angle & T-Shape

NOTE: Mould sizes and availability may change without notice. Contact our office for confirmation.

Fiberglass handrail systems

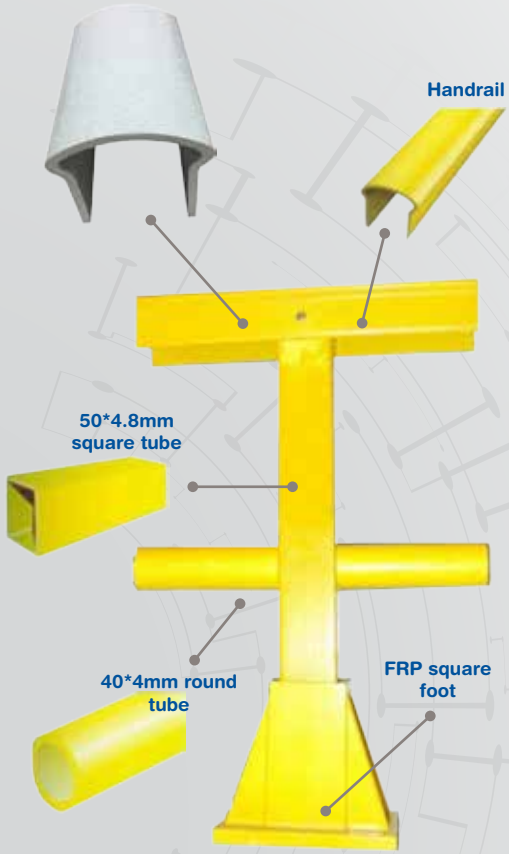
Grating FRP Australia **has developed a handrail system to meet Australian Standards, and offer a unique, extremely strong system.**

Meets your requirements, from small platforms, to complex structures.

- High strength
- Maintenance free
- Ideal for any location
- Choose from two systems to meet a variety of needs
- Capacity to design, manufacture and fabricate custom systems

Areas of application

- Mining
- Petrochemical & refining
- Communications
- Water/Waste-water transportation & Transit Aerospace
- Automotive
- Offshore & Marine
- Metal Plating
- Food & Beverage
- Water parks & zoos
- Shipping
- Aquariums
- Textile



Top mount application also available as side mount

NOTE: Mould sizes and availability may change without notice. Contact our office for confirmation.

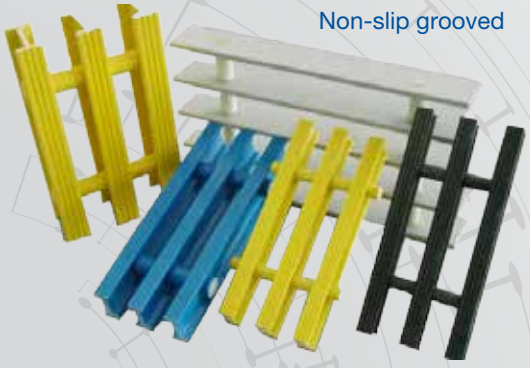
PULTRUDED GRATING

Grating FRP Australia pultruded grating is manufactured with every panel subjected to a sequence of quality assurance inspections, ensuring complete sealing of all joints, full wet-out of the glass ravings, consistent resin-to-glass ratios, and consistent non-skid features.

Grating FRP Australia pultruded grating is lightweight, strong, chemical and UV resistant, and reduces costly maintenance. It is particularly well suited to highly corrosive environments and offers extended life, eliminating periodic maintenance and replacement costs, thus making it the preferred alternative to conventional steel gratings.

Higher stiffness

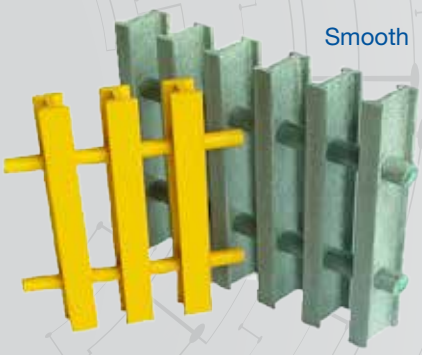
Grating FRP Australia pultruded grating possesses approximately 65% glass and 35% resin content by weight, giving it a very high strength to weight ratio. Load bearing bar capacity can be tailored to the application by modifying the glass content, fibre orientation, and combination of mat and roving reinforcement.



Non-slip grooved

UV resistance

All **Grating FRP Australia** pultruded grating is manufactured with resins containing UV inhibitors. UV resistance is enhanced with the use of a synthetic surfacing veil, creating a "resin rich" surface, and further strengthening **Grating FRP Australia** pultruded grating resistance to UV attack.



Smooth

Non-skid and safety

All **Grating FRP Australia** pultruded gratings are equipped with a durable and permanent gritted surface on the topside of all bearing bars, providing superior slip resistance compared to traditional steel grated walking surfaces/

Gritted

Low/free maintenance

With resin and pigment blended throughout **Grating FRP Australia** pultruded grating, you never need to coat or paint the product! It simply does not rust. Coupled with our 316 stainless steel attachment systems, **Grating FRP Australia** pultruded grating offers "maintenance-free" walkway systems. You install it and forget about it!

Checker

NOTE: Mould sizes and availability may change without notice. Contact our office for confirmation.

www.scavengersupplies.com.au

PULTRUDED GRATING

Impact resistance

Grating FRP Australia pultruded gratings offer better impact resistance than conventional steel gratings.

Fire retardancy

All **Grating FRP Australia** pultruded gratings are designed to exhibit a flame spread rating of 25 or less tested in accordance with ASTM E-84 tunnel test, and meet the self-extinguishing requirements of ASTM D-635. A variety of resins are available offering an array of flame spread ratings and smoke densities.

Lightweight

Grating FRP Australia pultruded grating weighs much less than comparable steel gratings; as much as 50%-75% less, depending on the bearing bar configuration.

For weight-sensitive structures, such as a tension-leg platform on offshore deep-water facilities, significant weight savings reduce the overall cost of the project.

Chemical resistance

Grating FRP Australia pultruded gratings offer superb chemical resistance to variety of acids and caustics. Offered in an array of corrosion resistant resins, designed for any environment, from light or moderately corrosive environments to extremely corrosive applications. Comes in premium Isophthalic polyester, vinyl ester or phenolic resins.

Non-Conductivity

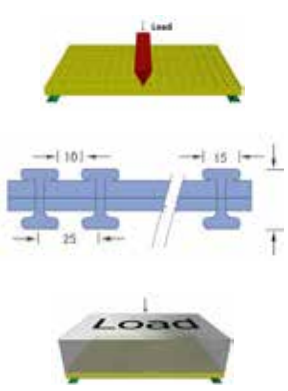
Grating FRP Australia pultruded grating is both thermally and electrically non-conductive; two features that make it a desirable product in many applications involving electrical and fire hazards. The thermal non-conductivity feature protects individuals from the head radiation that occurs on traditional steel grating during fires-firefighters can gel and stay closer to the fire source for longer periods of time.

NOTE: Mould sizes and availability may change without notice. Contact our office for confirmation.

Grating FRP Australia - Pultruded Grating

No.1 (I-4010) Thickness 25mm FRP Pultruded Grating 25mm x 15mm x 10mm

Opening area	40%
Three core tip	17.1 kg/m²

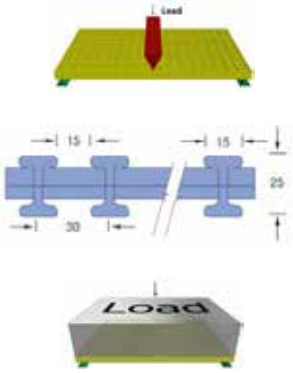


Concentrated Line Load - Deflection in millimeters							
Span \ kg/m	300	450	750	1500	3000	5950	Maximum load
450	~~	~~	1.02	2.03	4.06	7.62	16593
600	~~	~~	2.54	4.57	8.89	17.53	12959
900	2.8	4.06	6.6	13.46	26.9	53.85	8639
1200	5.84	8.89	14.73	29.46	59.2	118.11	6420

Uniform Load - Kg/m²							
Span	1000	19000	3900	7000	9500	19500	Maximum load
450	1.25	0.76	1.27	2.29	3.05	6.1	72325
600	1.01	1.27	3.56	6.86	8.89	~~	42515
900	4.57	8.38	16.26	~~	~~	~~	18863
1200	14.18	~~	~~	~~	~~	~~	10507

No.2 (I-5010) Thickness 25mm FRP Pultruded Grating 30mm x 15mm x 15mm

Opening area	50%
Three core tip	14.2 kg/m²

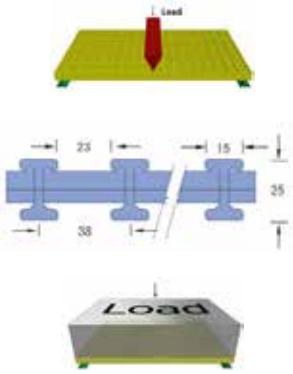


Concentrated Line Load - Deflection in millimeters							
Span \ kg/m	300	450	750	1500	3000	5950	Maximum load
450	~~	~~	1.02	2.03	4.06	7.62	13808
600	~~	~~	2.54	4.85	9.4	18.8	10799
900	2.54	4.06	6.86	13.46	27.2	54.1	7194
1200	7.37	10.9	18.29	36.58	73.2	146.05	5362

Uniform Load - Kg/m²							
Span	1000	19000	3900	7000	9500	19500	Maximum load
450	0.51	0.76	1.27	2.54	3.302	6.6	60499
600	1.27	2.29	4.06	5.08	7.26	15.24	35429
900	4.83	8.89	17.27	~~	~~	~~	15638
1200	16.51	~~	~~	~~	~~	~~	8796

No.3 (I-6010) Thickness 25mm FRP Pultruded Grating 38mm x 15mm x 23mm

Opening area	60%
Three core tip	11.2 kg/m²



Concentrated Line Load - Deflection in millimeters							
Span \ kg/m	300	450	750	1500	3000	5950	Maximum load
450	~~	~~	1.52	2.54	4.83	9.65	11067
600	~~	~~	3.05	5.59	11.2	22.1	8639
900	3.3	4.83	7.87	15.75	31.5	62.99	5750
1200	7.87	11.7	19.3	38.61	77.5	154.69	4275

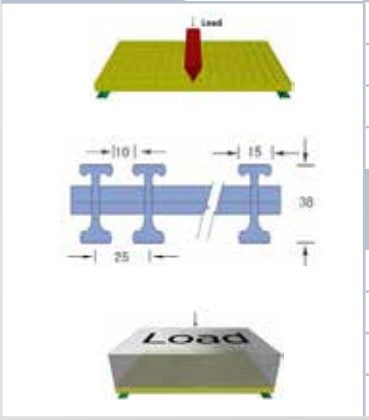
Uniform Load - Kg/m²							
Span	1000	19000	3900	7000	9500	19500	Maximum load
450	0.51	0.76	1.52	2.79	3.81	7.37	48380
600	1.27	2.29	4.57	8.38	11.18	~~	28344
900	5.84	10.92	~~	~~	~~	~~	12559
1200	17.78	~~	~~	~~	~~	~~	6988

NOTE: Some types and colours of Grating FRP Australia products are not part of general stock. They may be available with lead-time on order.

Grating FRP Australia - Pultruded Grating

No.4 (I-4015) Thickness 38mm FRP Pultruded Grating 25mm x 15mm x 10mm

Opening area	40%
Three core tip	22.01 kg/m²



Concentrated Line Load - Deflection in millimeters

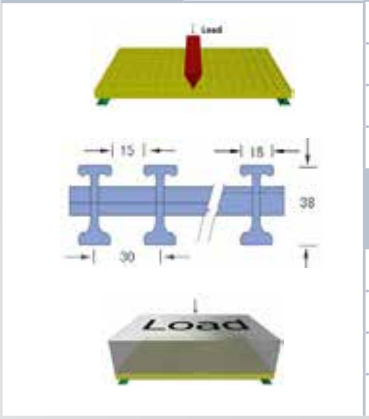
Span (kg/m)	300	450	750	1500	3000	5950	Maximum load
450	~~	0.25	0.51	0.76	1.52	2.79	26215
600	0.51	0.51	1.02	1.78	3.05	5.84	19661
900	1.02	1.27	2.29	4.32	8.38	16.76	12705
1200	2.03	2.79	4.57	9.4	19.1	37.85	9086

Uniform Load - Kg/m²

Span	1000	1900	3900	7000	9500	19500	Maximum load
450	0.25	0.25	0.76	1.27	1.52	3.3	114645
600	0.51	0.76	1.52	2.79	3.81	7.62	64506
900	1.52	2.79	5.33	10.2	13.46	~~	27257
1200	~~	8.64	~~	~~	~~	~~	14905

No.5 (I-5015) Thickness 38mm FRP Pultruded Grating 30mm x 15mm x 15mm

Opening area	50%
Three core tip	19.1 kg/m²



Concentrated Line Load - Deflection in millimeters

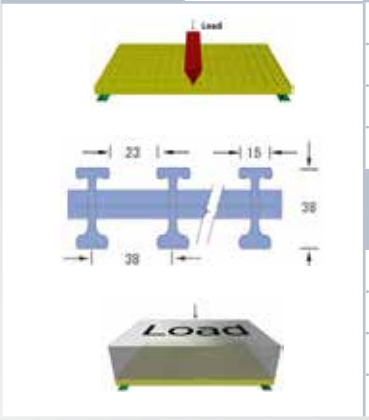
Span (kg/m)	300	450	750	1500	3000	5950	Maximum load
450	~~	0.25	0.51	1.02	1.78	3.3	21836
600	0.51	0.51	1.02	1.78	3.56	6.86	16385
900	1.02	1.52	2.54	5.08	9.91	20.97	10576
1200	2.29	3.56	5.84	11.94	23.4	46.99	7567

Uniform Load - Kg/m²

Span	1000	1900	3900	7000	9500	19500	Maximum load
450	0.25	0.51	0.76	1.27	1.778	3.56	95537
600	0.51	0.76	1.52	3.05	4.06	8.13	53755
900	1.78	3.3	6.1	11.7	15.49	~~	23164
1200	5.59	10.69	~~	~~	~~	~~	12422

No.6 (I-6015) Thickness 38mm FRP Pultruded Grating 38mm x 15mm x 23mm

Opening area	60%
Three core tip	16.1 kg/m²



Concentrated Line Load - Deflection in millimeters

Span (kg/m)	300	450	750	1500	3000	5950	Maximum load
450	~~	0.25	0.51	0.76	2.03	3.81	17472
600	0.51	0.76	1.02	2.29	4.32	8.38	13108
900	1.27	2.03	3.3	6.1	12.5	25.15	8460
1200	2.79	4.32	7.11	14.22	28.5	56.9	6047

Uniform Load - Kg/m²

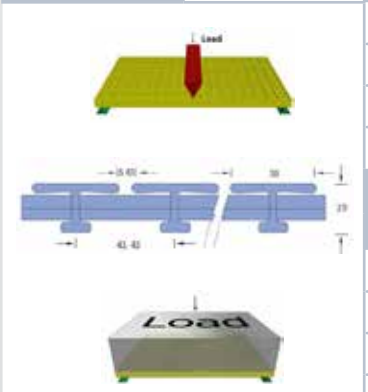
Span	1000	1900	3900	7000	9500	19500	Maximum load
450	0.25	0.25	0.76	1.27	1.78	3.56	76430
600	0.51	1.02	1.789	3.3	4.57	8.89	43004
900	2.29	4.06	7.87	14.7	~~	~~	18570
1200	6.6	12.95	~~	~~	~~	~~	9920

NOTE: Some types and colours of Grating FRP Australia products are not part of general stock. They may be available with lead-time on order.

Grating FRP Australia - Pultruded Grating

No.7 (T-1210) Thickness 25mm FRP Pultruded Grating 43.43mm x 38mm x 5.43mm

Opening area	12%
Three core tip	14.5 kg/m²



Concentrated Line Load - Deflection in millimeters

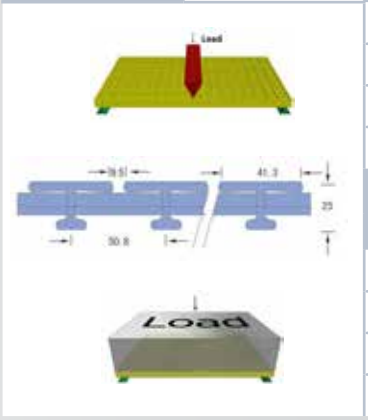
Span \ kg/m	300	450	750	1500	3000	5950	Maximum load
450	0.254	0.508	0.762	1.27	2.286	4.826	6481.5
600	0.508	1.016	1.524	2.286	4.826	9.652	4857.4
900	1.524	3.048	4.826	7.874	~~	~~	3233.3
1200	3.556	7.366	10.922	~~	~~	~~	2428.7

Uniform Load - Kg/m²

Span	1000	1900	3900	7000	9500	19500	Maximum load
450	<0.254	0.254	0.762	1.016	2.286	4.572	14932.8
600	0.508	1.27	1.778	3.048	6.096	12.192	11175.2
900	2.794	5.842	8.89	~~	~~	~~	7076
1200	9.144	~~	~~	~~	~~	~~	3562.4

No.8 (T-1810) Thickness 25mm FRP Pultruded Grating 50.8mm x 41.3mm x 9.5mm

Opening area	18%
Three core tip	13.8 kg/m²



Concentrated Line Load - Deflection in millimeters

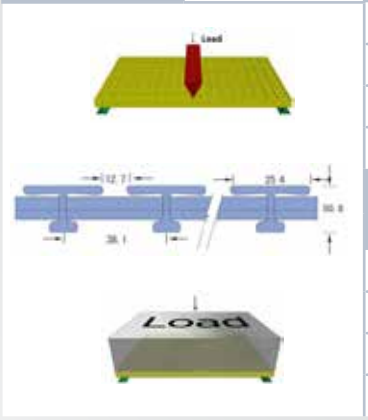
Span \ kg/m	300	450	750	1500	3000	5950	Maximum load
450	0.40	0.67	1.07	2.00	2.67	3.34	5900
600	1.24	2.06	3.30	6.19	8.25	10.32	3800
900	2.76	4.59	7.35	13.78	~~	~~	2300
1200	5.16	8.60	13.76	~~	~~	~~	2200

Uniform Load - Kg/m²

Span	1000	1900	3900	7000	9500	19500	Maximum load
450	0.10	0.17	0.27	0.50	0.67	0.83	29600
600	0.46	0.77	1.24	2.32	3.1	3.87	12700
900	1.38	2.30	3.67	6.89	9.18	11.48	7300
1200	3.22	5.37	8.60	~~	~~	~~	4600

No.9 (T-3320) Thickness 50.8mm FRP Pultruded Grating 38.1mm x 25.4mm x 12.7mm

Opening area	33%
Three core tip	20.27 kg/m²



Concentrated Line Load - Deflection in millimeters

Span \ kg/m	300	450	750	1500	3000	5950	Maximum load
450	~~	0.25	0.51	1.02	1.78	3.3	16876
600	0.51	0.76	1.27	2.29	4.57	9.4	7492
900	1.02	1.52	2.29	4.83	9.91	19.56	4215
1200	1.78	2.79	4.57	9.14	18.3	36.58	2696

Uniform Load - Kg/m²

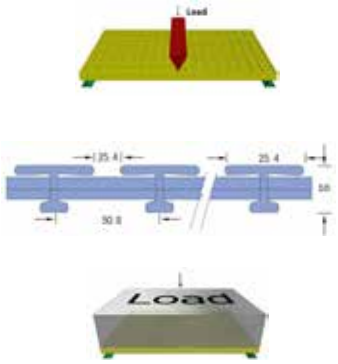
Span	1000	1900	3900	7000	9500	19500	Maximum load
450	0.25	0.51	0.76	1.52	2.03	4.06	55368
600	0.76	1.52	3.05	5.59	7.37	14.99	36895
900	2.29	4.57	9.4	~~	~~	~~	27659
1200	5.08	9.91	~~	~~	~~	~~	22137

NOTE: Some types and colours of Grating FRP Australia products are not part of general stock. They may be available with lead-time on order.

Grating FRP Australia - Pultruded Grating

No.10 (T-5020) Thickness 50mm FRP Pultruded Grating 50.8mm x 25.4mm x 25.4mm

Opening area	50%
Three core tip	15.66 kg/m²



Concentrated Line Load - Deflection in millimeters

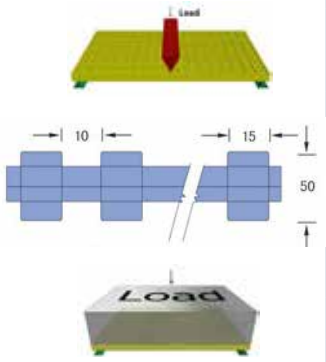
Span \ kg/m	300	450	750	1500	3000	5950	Maximum load
450	0.25	0.51	0.76	1.27	2.29	4.57	~~
600	0.76	1.27	1.78	3.3	6.1	12.19	~~
900	1.52	2.29	3.56	6.6	13.5	27.18	~~
1200	2.54	3.81	6.35	12.45	24.6	49.53	~~

Uniform Load - Kg/m²

Span	1000	1900	3900	7000	9500	19500	Maximum load
450	0.51	0.76	1.27	2.29	3.05	6.35	~~
600	1.02	2.03	3.81	6.86	9.4	~~	~~
900	3.3	6.35	12.45	~~	~~	~~	~~
1200	6.86	13.46	~~	~~	~~	~~	~~

No.11 (HL-4020) Thickness 50mm FRP Pultruded Grating 15mm x 10mm

Opening area	40%
Three core tip	70.37 kg/m²



Concentrated Line Load - Deflection in millimeters

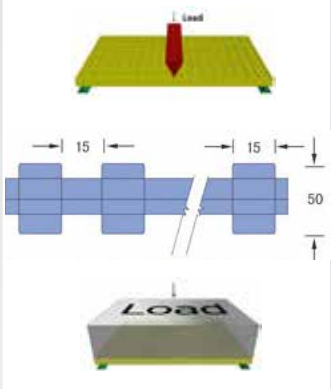
Span \ kg/m	150	300	450	750	1500	3000	4500	6000	7500
600	0.03404	0.06807	0.0851	0.1532	0.3063	0.5956	0.90195	1.1914	1.4977
750	0.0511	0.1021	0.1702	0.2723	0.5446	1.0892	1.6337	2.1954	2.7399
900	0.0851	0.1872	0.2723	0.4595	0.91897	1.8379	2.7399	3.6589	4.5779
1200	0.2212	0.4255	0.7722	1.0721	2.1443	4.2885	6.4328	8.5772	10.7214

Uniform Load - Kg/m²

Span	450	950	1450	2450	4850	9800	14500	19500	24400
600	0.03404	0.0681	0.11913	0.1872	0.3744	0.7489	1.1232	1.4976	1.85496
750	0.0851	0.1702	0.2553	0.4255	0.8509	1.7019	2.5697	3.4206	4.2715
900	0.1702	0.3404	0.51054	0.8509	1.7188	3.4377	5.1394	6.8583	8.57707
1200	0.5446	1.07213	1.6167	2.6888	5.3607	10.7214	~~	~~	~~

No.12 (HL-5020) Thickness 50mm FRP Pultruded Grating 15mm x 15mm

Opening area	50%
Three core tip	52.24 kg/m²



Concentrated Line Load - Deflection in millimeters

Span \ kg/m	150	300	450	750	1500	3000	4500	6000	7500
600	0.0406	0.0813	0.1016	0.1829	0.3658	0.7112	1.077	1.4225	1.7883
750	0.06096	0.1219	0.2032	0.3251	0.6502	1.3005	1.9507	2.6214	3.2716
900	0.1016	0.2235	0.32512	0.5486	1.0973	2.1946	3.2715	4.3689	5.4662
1200	0.2642	0.508	0.77216	1.2802	2.5603	5.1206	7.68096	10.2414	12.8017

Uniform Load - Kg/m²

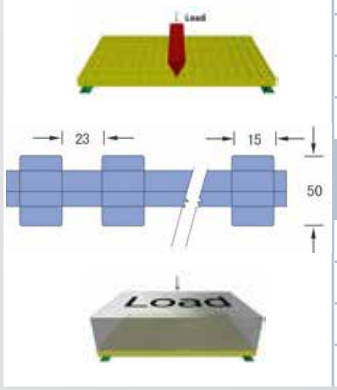
Span	450	950	1450	2450	4850	9800	14500	19500	24400
600	0.0406	0.0813	0.1422	0.2235	0.447	0.8942	1.3411	1.7881	2.2149
750	0.1016	0.2032	0.3048	0.508	1.016	2.033	3.0683	4.0843	5.1003
900	0.2032	0.4064	0.6096	1.016	2.0523	4.1047	6.1366	8.1889	10.2413
1200	0.6502	1.2802	1.9304	3.2106	6.4008	12.8017	~~	~~	~~

NOTE: Some types and colours of Grating FRP Australia products are not part of general stock. They may be available with lead-time on order.

Grating FRP Australia - Pultruded Grating

No.13 (T-6020) Thickness 50mm FRP Pultruded Grating 15mm x 23mm

Opening area	60%
Three core tip	43.50 kg/m²



Span (kg/m)	150	300	450	750	1500	3000	4500	6000	7500
Concentrated Line Load - Deflection in millimeters									
600	0.0508	0.1016	0.127	0.2286	0.4572	0.889	1.3462	1.779	2.2353
750	0.0762	0.1524	0.254	0.4046	0.8128	1.6256	2.4384	3.2767	4.0895
900	0.127	0.2794	0.4064	0.6858	1.3716	2.7432	4.0894	5.462	6.8327
1200	0.3302	0.635	0.9652	1.6002	3.2004	6.4008	9.6012	12.8017	16.003

Span	450	950	1450	2450	4850	9800	14500	19500	24400
Uniform Load - Kg/m²									
600	0.0508	0.1016	0.1778	0.2794	0.5588	1.1177	1.6764	2.2352	2.7686
750	0.127	0.254	0.381	0.635	1.27	2.55	3.8354	5.1054	6.3754
900	0.254	0.508	0.762	1.27	2.5654	5.1309	7.6708	10.2362	12.8016
1200	0.8128	1.6002	2.413	4.0132	8.001	16.003	~~	~~	~~

Notes for Pultruded Grating

1. **Designer must not exceed maximum recommended load at anytime.**

2. **Allowable loads** are for **static load conditions** at ambient temperatures. Allowable loads for impact or dynamic loads should be a maximum of **one half** value shown. Long term loads will result in added deflection due to creep in material and require higher safety factors to ensure acceptable performance.

3. **Elevated temperatures** can alter the performance of all FRP products.

4. **Load tables for reference only.** Grating FRP Australia will not be responsible for the use of these tables, and cannot warrant performance. Please call our offices if you required further assistance.

5. **Due to different project applications and environments in relation to using load tables**, it is advised that you consult with our technical team to assist with ordering the correct product.

NOTE: Some types and colours of Grating FRP Australia products are not part of general stock. They may be available with lead-time on order.

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Bridging ladders, sand, snow and mud self-recovery traction aids

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- Designed and tested to meet Australian four wheel drive conditions
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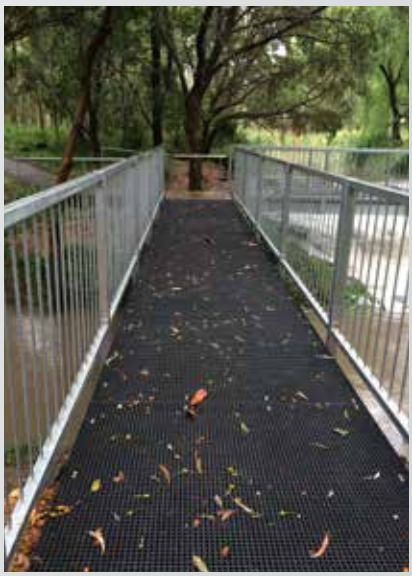
- 12-month limited warranty

YouTube

www.youtube.com/watch?v=ZNAcPhBn1x1
www.youtube.com/watch?v=5PagMq0jtBO

Our projects

Grating FRP Australia's projects span the country, bringing beauty and versatility to the Australian landscape. Our range saves money in so many ways, from maintenance to installation. Architects, landscapers, designers and of course, the trade, love all it has to offer. We know that you will too. Our team will cut your project to size. This is what makes us a leader in the FRP Grating industry.



Wellington Lake Park, Penrith NSW



Jerrabomberra Wetlands


Maxin Trax
Black Mountains ACT

Jetty, Hawkesbury River NSW


Jibbon Head National Park


Our projects

Mini-mesh boardwalk
Hunter Wetlands NSW

Bridge (top)
North Nowra Bridge NSW (bottom)

Disability beach access, Mandurah WA

Baulkham Hills Bridge NSW

Olympic Pool Wet Edge Drain

Infinity pool drain

Dalleyup Stairway WA

Bunbury Bridge WA

Tangga Tree-house Qld

Grassdale Bridge
Kangaroo Island

Our projects

Warehouse walkway and stairs

Ground cover

Mini-mesh pontoon

Roof walkway

Bund platform

Tank walkway, Woranoora Dam NSW

Vehicle pit cover

Engineering workshop

Exclusion zones

Calf-raising shed

Western Power pit, Perth WA

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