MOULDED FRP GRATING PRODUCT CATALOGUE

gratingfrpaustralia.com.au

WA, NT & SA
(08) 9584 2500

wa-sales@gratingfrpaustralia.com.au

NSW, QLD, VIC, TAS & ACT
(02) 4244 1008

nsw-sales@gratingfrpaustralia.com.au


gratingfrp
AUSTRALIA

Table of Contents

Managers
Welcoming

Welcome,

We are delighted to present our product catalogue for Grating FRP Australia and provide you with an insight into what makes Grating FRP Australia a leader in our field. Since our founding in 2007 by Warren Blay, who remains an integral part of our operations, we have built a robust reputation for excellence and innovation - seeing us become one of the most trusted Fibre Reinforced Polymer suppliers in Australia.

Our journey has been marked by the successful completion of over 2,500 projects nationwide. This extensive experience has allowed us to refine our expertise and maintain a consistent 5-star rating for service and product, a testament to the dedication and skill of our exceptional team. We take pride in our ability to deliver high-quality FRP products and solutions tailored to meet the diverse needs of our clients across Australia.

In this catalogue, you will find a detailed overview of our products, our industrious capabilities, and the various forms of engineering data and load tables you may require for further knowledge. Our commitment to quality, reliability, and customer satisfaction is at the core of everything we do, and we are eager to demonstrate how we can bring these strengths to your projects.

Thank you for taking the time to learn more about Grating FRP Australia. We look forward to the opportunity to collaborate and achieve great results together.

Sincerely,

Grating FRP Australia Management Team

Grating FRP Australia Management

Company Overview

We are an Australian-owned and Australia-wide specialist in industrial supplies. We have a niche focus to Fiberglass Reinforced Polymer products, structural systems and engineering services.

FACT: We are the only FRP supplier with ISO 9001 QA and BAL40 certified practices in Australia.

Grating FRP Australia supplies and designs high-quality Fiberglass Reinforced Polymer (FRP) structural products, offering a wide range of products and services. We provide fiberglass gratings, structural shapes, manhole covers, panels, access systems, stair treads, handrails, walkways, and complete structural design and fabrication for FRP projects. Our company collaborates with clients from various industries, offering technical advice and innovative FRP solutions.

Founded in 2007	We are a long-standing Australian supplier who have upheld an excellent portfolio of consumers and manufacturers over our decades of business. With an extensive track record of fabrication and installations under our belt, the fiber reinforced polymer (FRP) composites market continues to offer significant benefits to the industrial, commercial and building infrastructure in Australia and around the world.
The Leadership	At Grating FRP Australia, our leadership is characterized by a commitment to innovation, integrity, and excellence, driving our team to continually exceed expectations and pioneer new standards in the FRP industry.
Core Competency	Our core competency lies in our ability to engineer and deliver innovative FRP solutions tailored to our clients' specific needs, supported by our expertise in materials science, manufacturing processes, and industry-leading services.
The Product	Grating FRP Australia sells and supplies Fiber Reinforced Polymer products.
Innovation	At Grating FRP Australia, our innovation is evident in our customized solutions, material advancements, and sustainability initiatives. We continuously collaborate with clients and invest in research to enhance our products and processes, ensuring we deliver cutting-edge FRP solutions that meet evolving industry standards and client needs.
Research & Development	As an **accredited Triple A Organization**, we take pride in remaining active with our involvement of product and service development. At Grating FRP Australia, our dedicated Research and Development team collaborates on innovative projects to enhance the performance, functionality, and sustainability of our FRP products. By investing in R&D, we stay ahead of industry trends and market demands, ensuring that we deliver cutting-edge solutions tailored to our clients' evolving needs.
International Presence	Grating FRP Australia has a global presence, recognized for quality and innovation. Through strategic partnerships and collaborations, we deliver FRP solutions worldwide.

The Team

We have a full circle approach of our involvement in our team's knowledge, supply opportunities and quality controls. On a regular basis, our staff travel to our manufacturers, where we continue to ensure raw material qualities and manufacturing procedures are maintained to complete compliance, where our priorities of ethical, safe and viable services continue.

Furthermore, we work closely with Australian & Beijing Universities, in the development of new applications for FRP in conjunction with our manufacturers.

We're proudly represented by skilled and passionate staff who have extensive experience in their respected sections of our organization. We prioritise our standard of working with quality service and reliable equipment – ensuring that at all times we are providing value packed services and improvements to benefit your FRP project longevity and outcomes.

The Service

We will work alongside you to offer the complete structural design and fabrication services you require, utilising our in-house engineers. We also have the capacity to manage FRP projects at various stages to meet the project specifications and requirements you may be missing the expertise in.

We have been working with our clients from various industries across almost two decades, providing them in-depth technical advice and innovative FRP solutions that they've never looked back on.

Our supply network capacity is vast and dedicated, meaning we can source almost any specification and requirement to have a project run smoothly, efficiently and transparently from start to finish.

We offer our services all across Australasia for supply, installation, upgrades and maintenance.

The Product

We hold a large range of custom FRP product capacities and services, ranging from manhole covers, specified grating and panels, access systems, stair treads & handrails, walkway solutions, and more. Our products are a smarter choice for many applications in its durability, cost-over-lifetime, incredible strength, minimal to no need of maintenance and its non-corrosive/ non-conductive nature.

FRP has the capacity to be installed quickly, reducing labor costs. It can be transported fast and under less-freight cost due to its light weight and it is a customizable product - making it a great solution for technical structural projects.

Scavenger Fire & Safety: Certified for Quality, Safety, and Bushfire Resilience

At Scavenger Fire & Safety, we are proud to uphold the highest standards of quality, safety, and fire resistance across all our products and services. Our commitment to excellence is reflected in the following certifications:

BAL40 - Bushfire Attack Level 40
Scavenger Fire & Safety products are designed to withstand severe bushfire conditions, meeting the stringent BAL40 (Bushfire Attack Level 40) certification. This rating ensures our fire safety equipment can endure intense heat, ember attacks, and some direct flame exposure—making them ideal for use in high-risk bushfire zones. We use fire-resistant materials and construction techniques that align with Australian standards to provide maximum protection for properties in vulnerable areas.

Ashburton Assurance Australasia ISO 9001:2015 Quality Management System
Our commitment to delivering the best products is reinforced by our ISO 9001:2015 certification for quality management, provided by Ashburton Assurance Australasia. This globally recognized certification demonstrates our dedication to maintaining high-quality standards across all aspects of our operations. By focusing on customer satisfaction, continuous improvement, and effective process management, we ensure that every fire extinguisher, fire blanket, and safety solution we offer meets the most rigorous industry standards.

Ashburton Assurance Australasia ISO 45001:2018 OH&S Management System
Safety is at the core of everything we do at Scavenger Fire & Safety. Our ISO 45001:2018 certification for Occupational Health and Safety Management reflects our proactive approach to creating a safe working environment for our team and ensuring that our products contribute to the safety of others. By adhering to international safety standards, we not only minimize workplace hazards but also help safeguard our customers by delivering reliable, life-saving fire safety products.

These certifications are a testament to Scavenger Fire & Safety's unwavering commitment to protecting lives and properties. When you choose us, you're choosing a company that prioritizes quality, safety, and resilience in every product we provide.

CERTIFICATE

Material Fire Test Certificate

IGNL-6228-16C I01 R00

DATE OF TEST	30.11.2022
ISSUE DATE	30.01.2023
EXPIRY DATE	29.01.2028

AS 1530.8.1 Methods for fire tests on building materials, components and structures
Part 8.1: Tests on elements of construction for buildings exposed to simulated bushfire attack – Radiant heat and small flaming sources

SPONSOR
Scavenger Supplies Pty Ltd
15 Waverley Drive
Unanderra NSW 2526

TEST BODY
Ignis Labs Pty Ltd
ABN 36 620 256 617
3 Cooper Place
Queanbeyan NSW 2620
Australia
www.ignislabs.com.au
(02) 6111 2909
Test body is the test location

Specimen Name

FRP Grating Mini – Micro mesh

Specimen Description

The test sponsor described the FRP Grating Mini – Micro mesh as fibreglass reinforced polymer grating, which is composed of resins, isophthalic polyester. The nominal mass per unit is 18 kg/m² and the nominal thickness is 26.29 mm. The colour of the specimen is grey. The end use of it is external boardwalks and decks. The openings have a height of 12.26 mm and a width of 12.57 mm. The specimen comprised an external wall that has two layers of 6 mm fibre cements with steel framing as per Clause 8.4.1 of AS 3959-2018 and an FRP Grating MINI – MICRO Mesh decking board. Ignis Labs was not responsible for the sampling stage. All specimens were sampled by the test sponsor. The test results apply to the specimens as received.

Pre-test Conditioning

Prior to construction, the components of the specimens were subjected to normal temperatures and humidity. The crib was conditioned in an oven with temperature of between 40 °C and 50 °C for 24 hrs.

Test Method

The test was performed in accordance with the requirements of AS 1530.8.1-2007 with the purpose of determining the performance of external construction elements when exposed to radiant heat, burning embers and burning debris. Class C test cribs were prepared and used in this test in accordance with Clause 14.2 of AS 1530.8.1-2007. The furnace temperature and radiant panel was controlled so that the average heat flux, measured at the centre of the panel was maintained within the prescribed radiant heat flux limits in accordance with Table 14.2 of AS 1530.8.1-2007.
The radiant heat source was the furnace for pilot fire-resistance tests of AS 1530.4 which has a nominal size of 1 m × 1 m with a sheet steel closure. The external wall was built to have a rebate in the centre of the specimen with an eaves detail being 798 mm. The FRP Grating MINI – micro mesh deck was fabricated to fit the rebate of the external wall. The thermocouples on the eaves detail are 1070 mm above the ground.

Observations

The ambient temperature of the laboratory at the commencement of the test was 31.8 °C. The test duration was 60 minutes. Both corners of the deck rebate ignited, but no significant flame spread was observed.

Test Results

Performance Criteria		Time to failure (min)	Position of failure
Formation of through-gaps greater than 3 mm		No failure	-
Sustained flaming for 10 s on the non-fire side		No failure	-
Flaming on the fire-exposed side at the end of the 60 min test period		No failure	-
Radiant heat flux 365 mm from the non-fire side exceeding 15 kW/m²		Not applicable	NA
Mean and maximum temperature rises greater than 140 K and 180 K		Not applicable	NA
Radiant heat flux 250 mm from the specimen, greater than 3 kW/m² between 20 min and 60 min		Not applicable	NA
Mean and maximum temperature of internal faces exceeding 250 °C and 300 °C respectively between 20 min and 60 min after commencement of test		20 mins	The back and side sides on the crib flame bottom of the upper surface crib
Extent of flaming exceeding 500 mm limits on decking boards		No failure	-
Crib class	C	Peak heat flux	40 kW/m²

Test Supervisor
Darren Laker

Technical Lead
Jessica Ying

Version: IGNL-QF-060-Issue 01 Revision 00

AAA CERTIFIED Quality ISO 9001

ASHBURTON ASSURANCE AUSTRALASIA

Hereby grants this

QUALITY MANAGEMENT SYSTEM CERTIFICATION
Registration No 610006/Q/4

to

Scavenger Supplies Pty Ltd
8 Panton Road, Greenfields WA 6210

for

The provision of industrial, construction and maritime supplies as well as the supply and servicing of fire equipment.

and in recognition of the implementation of a management system conforming to

ISO 9001:2015

ANZSIC Code: **1090**

Certificate valid from **01/09/2022** to **03/10/2025**

Certificate Approved by Keith Jones, Managing Director

Issue Date: 01/09/2022
Initial Certification Date: 24/10/2013

JAS-ANZ

This certificate of registration is granted subject to the terms of business and certification governing the scheme by Ashburton Assurance Australasia and in respect of goods and services described within the schedule hereto; at or supplied from the location/s shown on this certificate.

To verify validity of this certificate please visit www.jas-anz.org/register

ASHBURTON ASSURANCE AUSTRALASIA
LEVEL 1, 100 HAVELOCK STREET, WEST PERTH, WA

AAA CERTIFIED Quality

CERTIFIED
Safety
ISO 45001

ASHBURTON ASSURANCE AUSTRALASIA

Hereby grants this

OH&S MANAGEMENT SYSTEM CERTIFICATION Registration No 610006/W/2

to

Scavenger Supplies Pty Ltd
8 Panton Road, Greenfields WA 6210

for

The provision of industrial, construction and maritime supplies as well as the supply and servicing of fire equipment.

and in recognition of the implementation of a management system conforming to

ISO 45001:2018

ANZSIC Code: **1090**

Certificate valid from **01/09/2022** to **03/10/2025**

Certificate Approved by Keith Jones, Managing Director

Issue Date: 01/09/2022
Initial Certification Date: 28/06/2021

JAS-ANZ

This certificate of registration is granted subject to the terms of business and certification governing the scheme by Ashburton Assurance Australasia and in respect of goods and services described within the schedule hereto; at or supplied from the location/s shown on this certificate.

To verify validity of this certificate please visit www.jas-anz.org/register

ASHBURTON ASSURANCE AUSTRALASIA
LEVEL 1, 100 HAVELOCK STREET, WEST PERTH, WA

What is FRP?

Fiber-Reinforced Polymer (FRP) (also called fiber-reinforced plastic) is a composite material made of a polymer matrix reinforced with fibers.

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

FRP can also be custom designed and fabricated to provide the distinct reinforcing functions to meet the specific strength and corrosion and abrasion resistance requirements.

Types of Resin:

1. VEFR-25 & VEFR-10 (Vinyl Ester Resin):
   - VEFR-25: High chemical resistance and flame spread rating ≤25. Ideal for harsh industrial environments like petrochemical plants.
   - VEFR-10: Enhanced fire resistance with a flame spread rating ≤10, suitable for fire-sensitive applications.

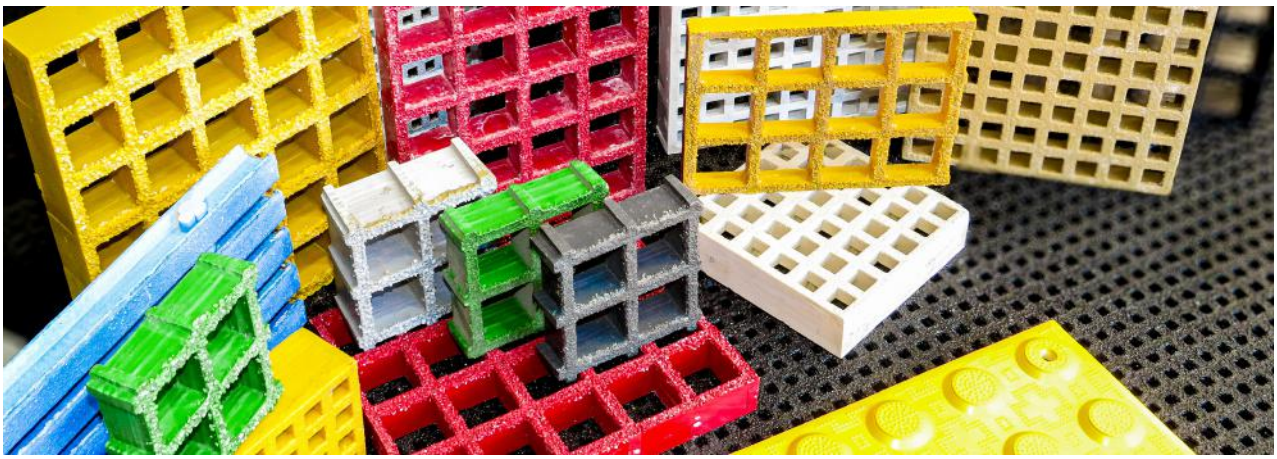
2. IFR-25 & IFR-10 (Isophthalic Resin):
   - IFR-25: Economical, good chemical resistance, flame spread ≤25, used in general industrial settings.
   - IFR-10: Higher fire retardancy with a flame spread ≤10.

3. FG-30 (Food-Grade Polyester Resin):
   - Corrosion-resistant, flame spread ≤30, certified for food industry use.

4. MP-5 (Phenolic Grating):
   - Exceptional fire resistance, flame spread ≤5, low smoke, suitable for confined spaces.

5. Conductive Top Grating:
   - Anti-static properties for sensitive industries, dissipates static electricity safely.

These solutions deliver safety, durability, and reliability across various industrial applications.



Characteristics of Fiber-Reinforced Polymer (FRP)

For designers and engineers FRP offers a number of advantages that can provide dynamic solutions as well as long term benefits:

Light weight

- Reducing transportation costs and potential occupational health and safety hazards for workers.

Non-conductive

- Reducing risks of electrocution and making this a versatile use product.

Corrosion resistance

- Because FRP materials are not susceptible to corrosion, FRP products offer a great alternative to conventional materials for this major maintenance issue. This benefit is most important in cold climates with snow or coastal areas with salt water. FRP materials have demonstrated excellent durability in corrosive chemical environments for 50 years without degradation.

Quick installation time

- Fabricating customised FRP in a factory and shipping them to your site offers several advantages over many other alternative products. This includes quality can be closely monitored in a controlled environment; the potential for weather delays can be greatly reduced; and most significantly, project down-time can be substantially reduced. Once a superstructure is prepared, prefabricated FRP can be installed quickly, compared to other labor-intensive processes.

High strength

- FRP products provide ultimate strength with very high safety factors. Since FRP material is not as stiff as other competitive construction materials; stiffness performance requirements drive the design of many of our FRP products. Deflection criteria has become one of the most important performances checks we utilize. In addition, static tests of FRP products have clearly demonstrated that FRP greatly exceeds specified performance requirements and provides competitively high safety factors – making it a strong performance competitor to other traditional structural materials.

Lower life cycle costs

- Corrosion resistance results in very low maintenance of FRP products, which translates to lower future maintenance costs. It also means that FRP products will last longer than traditional materials. These add up to lower life cycle costs for FRP.

Temperature and Harsh Environment Resistance

- Compared with steel, timber or other construction materials, FRP is the most economical and efficient solution for harsh industrial and demanding structural construction. FRP also able to withstand severe weather conditions of Australia.

Sustainability Initiatives

Sustainability is a core value at Grating FRP Australia, and we are committed to minimizing our environmental footprint while maximizing the positive impact of our operations.

Eco-Friendly Materials:

We prioritize the use of environmentally friendly FRP products, ensuring our products are long lasting, don't require replacements and will see less wastage in development of niche structures.

Energy Efficiency:

We continually strive to improve the energy efficiency of our operations by investing in energy-efficient equipment and technologies, optimizing production processes, and implementing energy conservation measures throughout our facilities. By reducing energy consumption, we lower our carbon emissions and contribute to a more sustainable future.

Waste Reduction and Recycling:

We are committed to minimizing waste generation and maximizing recycling across all aspects of our operations. We implement waste reduction strategies, such as material optimization and process improvements, to minimize waste generation. Additionally, we actively recycle waste materials, including FRP offcuts and production scrap, when possible, to divert them from landfills and promote a circular economy.

Water Conservation:

We implement water conservation measures to minimize water usage in our manufacturing processes and facility operations. By optimizing water usage and implementing water-saving technologies, we reduce our impact on local water resources and contribute to water sustainability efforts.

Lifecycle Assessment:

We conduct lifecycle assessments of our products to evaluate their environmental impacts from raw material extraction to end-of-life disposal. This holistic approach enables us to identify opportunities for improvement and optimize the environmental performance of our products throughout their lifecycle.

Certifications and Standards:

We adhere to recognized sustainability certifications and standards, such as ISO 14001 (Environmental Management Systems) and LEED (Leadership in Energy and Environmental Design), to demonstrate our commitment to sustainability and provide assurance to our customers and stakeholders.

By embracing these sustainability initiatives, Grating FRP Australia is dedicated to reducing our environmental impact, conserving natural resources, and promoting a more sustainable and resilient future for generations to come.

Industries We Work With

Architectural:
Our expertise encompasses custom-designed FRP panels, cladding systems, and decorative elements that offer a unique blend of aesthetics and functionality. From sleek façade panels to intricate interior finishes, our lightweight FRP materials enable architects to realize their vision while meeting performance requirements.

Local & State Government:
With a large array of applications such as enhancing outdoor experiences with durable and customizable products. Our portfolio includes a range of FRP materials tailored for infrastructure such as trails, bridges, outdoor seating, boardwalks, and more.

Food & Beverage:
From durable processing equipment enclosures to corrosion-resistant structural components and spill management, our lightweight FRP materials offer reliability and longevity in food and beverage facilities.

Mining & Minerals:
Our expertise lies in delivering custom-designed FRP structural access components, spill systems, and equipment enclosures engineered to withstand the rigors of mining operations.

Oil& Gas:
We cover a broad spectrum of services and products to meet structural profiling requirements, access engineering and support from start to finish with our specialized grating systems.

Civil Marine:
Our product range includes corrosion-resistant FRP piles, docks, bridges, and seawalls designed to withstand the harsh marine environment while ensuring long-term durability and structural integrity. With our expertise in custom design and engineering, we deliver solutions optimized for coastal protection, port facilities, marinas, and waterfront developments.

Utilities & Rail:
We provide customized engineering support for rail projects, offering lightweight, durable FRP materials for bridges, platforms, and other infrastructure, cable management systems, and equipment enclosures.

Water & Waste:
Our expertise lies in delivering custom-designed FRP infrastructure, such as treatment systems, durable access covers, developing robust wastewater treatment enclosures, corrosion-resistant piping supports and structural components – all engineered to withstand harsh environmental conditions while ensuring the integrity of water and waste infrastructure.

Recreational:
Our range of lightweight, corrosion-resistant FRP materials is designed to withstand the demands of outdoor adventures, ensuring durability and reliability in marine and off-road environments. Whether it's manufacturing custom FRP boat components, robust vehicle accessories, or hobbyist equipment, we prioritize quality craftsmanship and innovative design.

Examples of how FRP can be used:

Environment	Option of Application
Wastewater Plant	Cover of the trench, walkways, drains, water channel, ventilation valve, stair treads, and flooring.
Chemical Plant	Stair treads, platforms, handrail systems, concrete pool covers, raised flooring, and filter plates.
Oil Industry	Platforms above sea.
Textile Plant	Replacement of metal grating and wooden platforms. Flooring around bleaching and dying areas. Flooring around pumps and valves.
Power Plant	Non-conductive and anti-static areas, trench and pit covers, stairways and platforms.
Metal Finishing	Acid washing areas. Replacing wooden floors that surround machines, walkway, raised flooring.
Seafood Processing	Oily surface contaminated area, processing areas.
Transportation	Ships, platforms and contaminated area, stair treads and stairways.
Beverage Plant	Stair treads, replacing stainless steel floor grating.
Pulp & Paper Factory	Stair treads and platform, walkways, wet area access.
Electronic Industry	Access pit covers, acid pickling plants and electronic resistance application options (non-conductive grating).
Meat Processing Factory	Drains, trench covers, platforms, ramps, and holding yards.
Architecture & Landscape	Shop fronts, landscaping, screening, cladding and paneling, wall and roof.

FRP Grating Grit Options & Surface Finish

Grit Size Key:

1. Heavy Duty - 3.8mm
2. Heavy Duty - 3.2mm
3. Medium Duty - 2.8mm
4. Medium Duty - 2.5mm
5. Medium Duty - 2.2mm
6. Medium Duty - 1.5mm
7. Light Duty - 1.2mm
8. Light Duty - 0.8mm
9. Light Duty - 0.6mm
10. Light Duty - 0.3mm

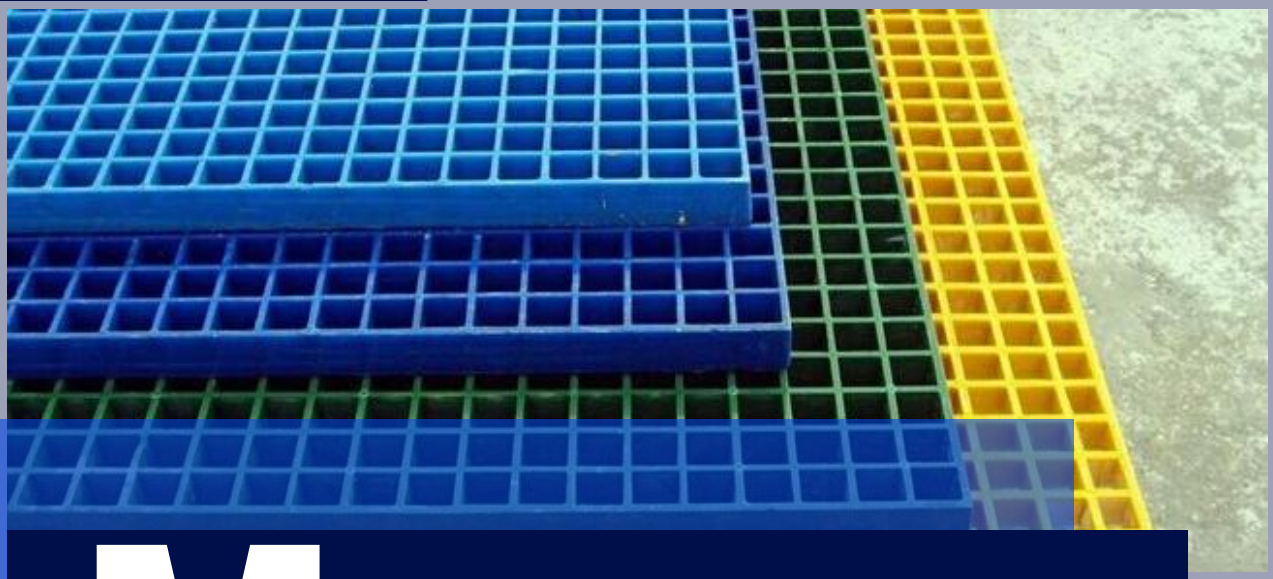
Grating FRP Australia specializes in premium Fiberglass Reinforced Plastic (FRP) grating solutions designed to meet stringent safety and performance standards. Our gratings provide exceptional slip resistance, verified through Australian pendulum testing, ensuring a safe surface in wet and dry conditions. These attributes make our products ideal for industrial and public applications where safety is paramount.

The surface texture of our FRP gratings is engineered for maximum grip and durability. Our products feature a high-spec gritted surface, incorporating quartz, glass bead or aluminum oxide granules. This gritted finish offers superior slip resistance, exceeding safety benchmarks even under heavy foot traffic and exposure to contaminants such as oil, water, or chemicals. The various coarse textures we use are designed to maintain its performance over time, providing a reliable solution for high-traffic areas.

Our gratings are available in multiple textures, including light grit and standard grit for general use and heavy-duty grit for environments requiring enhanced safety - this can be referenced to the Australian Standards Guide AS/NZS 4586. The texture not only ensures slip resistance but also contributes to the longevity of the product, making the grating resilient to wear and harsh conditions. These features are combined with UV stability, ensuring that the surface maintains its effectiveness and appearance in outdoor applications.

Grating Application Examples


Grating Application
Examples



Moulded Grating

Our moulded fibreglass grating is manufactured by interfacing reinforcing fibreglass roving within a polyester resin, thermally cured in the mold. Grating produced using this technique yield a product having 30-35% (by total weight) of fibreglass reinforcement. For fire retardant protection, the resin used are complete with fire retardant additive to obtain class 1 fire spread rating of 25 or less as per ASTM E-84. Uv Inhibitors and antioxidant are included into the products recipe of grating to achieve the best UV protection on the market.

Comparing with other floor materials, FRP moulded grating provides a series of benefits, unmatched impact resistance, while the strength-weight-ratio is only one-fourth of that of steel grating. It is easy to cut and install.

FRP moulded grating has high corrosion resistance. Using different resin achieves different properties of corrosion resistance.

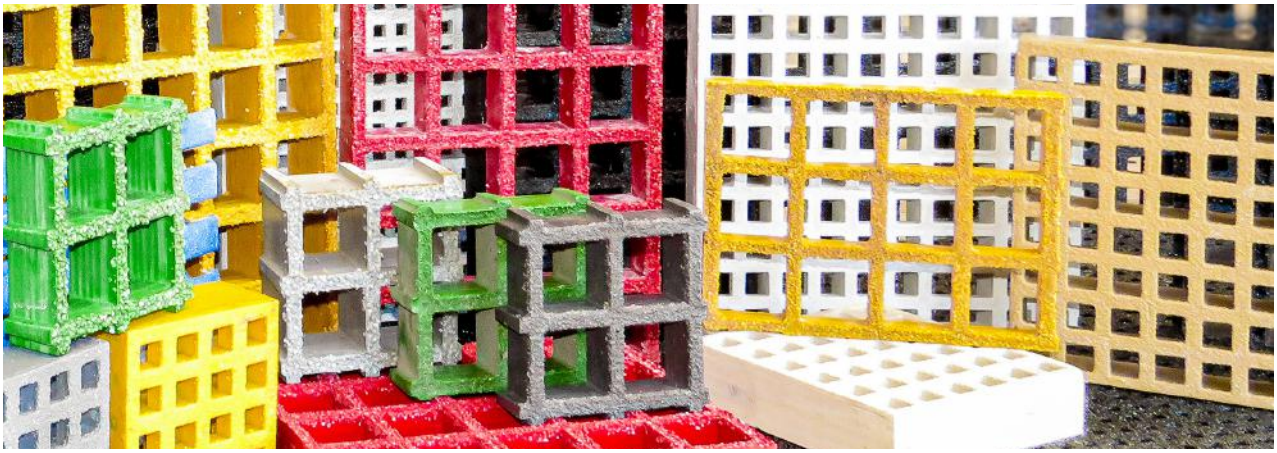
Standard resins being used include Orthophthalic, Polyester resin, Isophthalic Polyester, Vinyl Ester resin. Vinyl Ester grating provides extremely high corrosion resistance.

The surface of FRP moulded grating can be concaved top, flat top, grit top, checker cover, grit cover and smooth cover.

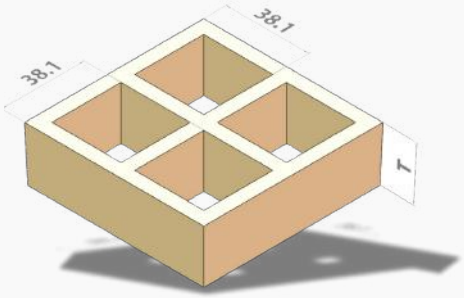
KEY:

- Any product listed that is bold, underlined and highlighted blue is a **COMMONLY STOCKED ITEM.**

FRP Moulded Grating Specifications



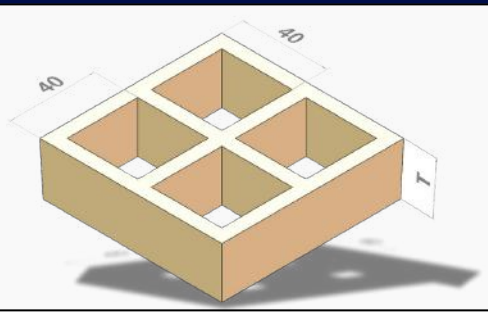
38.1mm x 38.1mm Mesh **Unit: mm**

Image	Depth	Bar Thickness	Standard Dimension	Weight (kg/m2)	Open Ratio %
	14	6.0/ 5.0	1524 x 4000 1220 x 3660 1220 x 2440 921 x 3050 610 x 3660	6.1	78
	15	6.0/ 5.0	1524 x 4000 1220 x 3660 1220 x 2440 921 x 3050	7.1	78
	20	6.5/ 5.0	1524 x 4000 1220 x 3660 1220 x 2440 921 x 3050	9.6	68
	25	6.5/ 5.0	998 x 3015 998 x 2025 1524 x 4000 1220 x 3660 1220 x 2440 921 x 3050	12.3	68
	30	6.5/ 5.0	1524 x 4000 1220 x 3660 1220 x 2440 921 x 3050	14.6	68
	38	7.0/ 5.0	998 x 2025 1524 x 4000 1220 x 3660 1220 x 2440 921 x 3050	19.5	68
	40	7.0/ 5.0	1524 x 4000 1220 x 3660 1220 x 2440 921 x 3050	20.6	68
	50 (HD)	9.5/ 7.5	1220 x 3660 1220 x 2440 921 x 3050	40.0	56
	60 (HD)	10.5/ 8.5	1220 x 3660 1220 x 2440 921 x 3050	48.0	54
	65 (HD)	11.0/ 9.0	1220 x 3660 1220 x 2440 921 x 3050	52.0	52

KEY:
Any product listed that is bold, underlined and highlighted blue is a COMMONLY STOCKED ITEM.

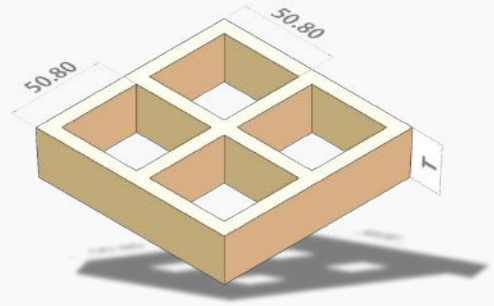
40mm x 40mm Mesh

Unit: mm

Image	Depth	Bar Thickness	Standard Dimension	Weight (kg/m2)	Open Ratio %
	25	7.0/ 5.0	1007 x 3007 1007 x 4007 1247 x 3687 1527 x 4047	12.3	67
	30	7.0/ 5.0	1007 x 3007 1007 x 4007 1247 x 3687 1527 x 4047	14.5	67
	40	7.0/ 5.0	1007 x 3007 1007 x 4007 1247 x 3687 1527 x 4047	19.2	67

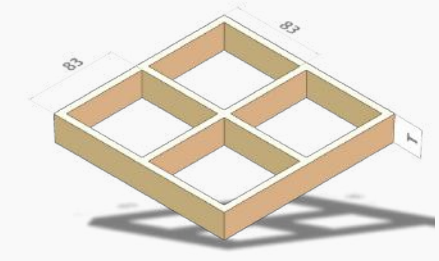
50.8 x 50.8mm Mesh

Unit: mm

Image	Depth	Bar Thickness	Standard Dimension	Weight (kg/m2)	Open Ratio %
	13	6.0/ 5.0	1524 x 4000 1220 x 3660 1220 x 2440 921 x 3050	5.8	82
	15	7.0/ 6.0	1524 x 4000 1220 x 3660 1220 x 2440 921 x 3050	6.8	82
	25	7.5/ 6.0	1524 x 4000 1220 x 3660 1220 x 2440 921 x 3050	11.8	78
	38	7.0/ 5.0	1524 x 4000 **1220 x 3660** 1220 x 2440 921 x 3050	17.8	78
	50	7.5/ 5.0	1524 x 4000 1220 x 3660 1220 x 2440 921 x 3050	21.5	78
	50	8.0/ 6.0	1524 x 4000 **1220 x 3660** 1220 x 2440 921 x 3050	23.5	78

83 x 83mm Mesh

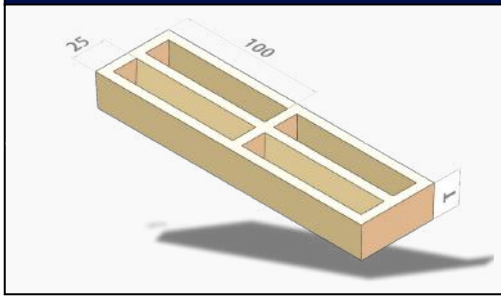
Unit: mm

Image	Depth	Bar Thickness	Standard Dimension	Weight (kg/m2)	Open Ratio %
	25	7.0/ 5.0	1007 x 4007	6.1	84
	40	7.0/ 5.0	1007 x 4007	9.6	84

KEY:
Any product listed that is bold, underlined and highlighted blue is a COMMONLY STOCKED ITEM.

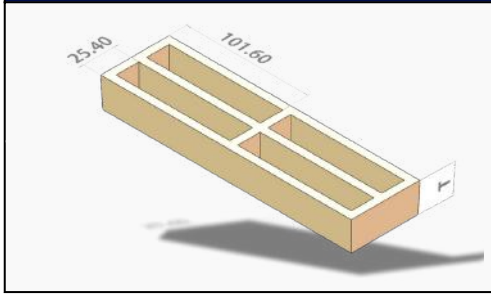
25 x 100mm Mesh

Unit: mm

Image	Depth	Bar Thickness	Standard Dimension	Weight (kg/m2)	Open Ratio %
	25	7.0/ 5.0	1007 x 4007 1007 x 3007	13.0	67
	30	7.0/ 5.0	1007 x 4007 1007 x 3007	15.6	67

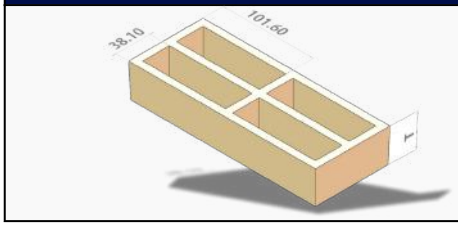
25.4 x 101.6mm Mesh

Unit: mm

Image	Depth	Bar Thickness	Standard Dimension	Weight (kg/m2)	Open Ratio %
	25	6.5/ 5.0	1220 x 3660 921 x 3050	13.0	67
	25 HD	9.5/ 8.0	1220 x 3660 921 x 3050	15.6	67

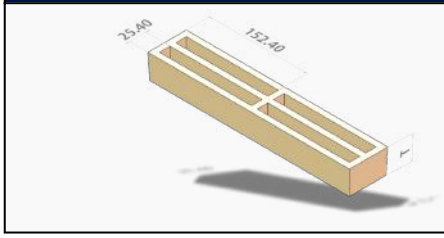
38.1 x 101.6mm Mesh

Unit: mm

Image	Depth	Bar Thickness	Standard Dimension	Weight (kg/m2)	Open Ratio %
	38	8.0/ 6.0	1220 x 3660 921 x 3050	13.0	65

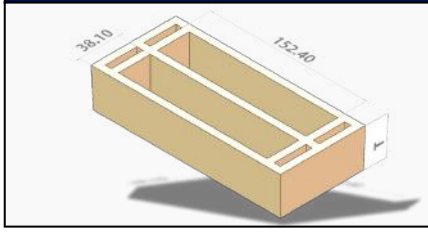
25.4 x 152.4mm Mesh

Unit: mm

Image	Depth	Bar Thickness	Standard Dimension	Weight (kg/m2)	Open Ratio %
	38	9.0/ 6.5	1220 x 3660 921 x 3050	22.5	63

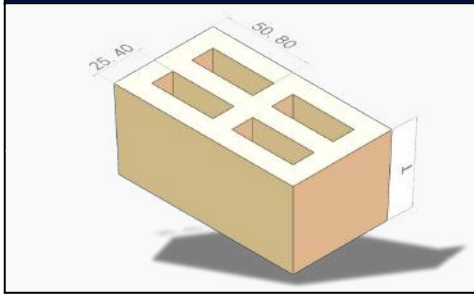
38.1 x 152.4mm Mesh

Unit: mm

Image	Depth	Bar Thickness	Standard Dimension	Weight (kg/m2)	Open Ratio %
	38	8.0/ 6.0	1220 x 3660 921 x 3050	15.9	67

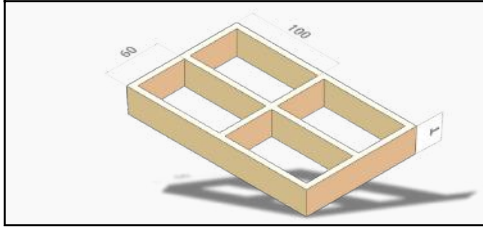
25.4 x 50.8mm Mesh

Unit: mm

Image	Depth	Bar Thickness	Standard Dimension	Weight (kg/m2)	Open Ratio %
	38	11.0/ 9.0	1220 x 1830	30.7	49
	50	12.0/ 9.0	1220 x 1830 1220 x 3660	41.8	48

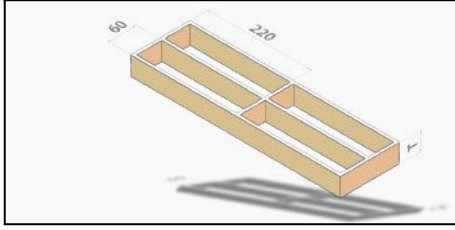
60 x 100mm Mesh

Unit: mm

Image	Depth	Bar Thickness	Standard Dimension	Weight (kg/m2)	Open Ratio %
	28	6.5/ 5.0	1500 x 4000 1500 x 2000	7.2	78

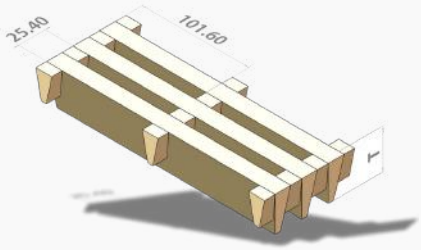
60 x 220mm Mesh

Unit: mm

Image	Depth	Bar Thickness	Standard Dimension	Weight (kg/m2)	Open Ratio %
	40	6.3/ 5.0	1788 x 4476 1788 x 2238	8.8	67

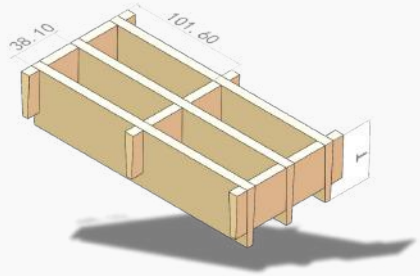
25.4 x 101.6mm Mesh (Disability Friendly)

Unit: mm

Image	Depth	Bar Thickness	Standard Dimension	Weight (kg/m2)	Open Ratio %
	38	15.0/ 5.0	1220 x 3660	21.0	62

38.1 x 101.6mm Mesh

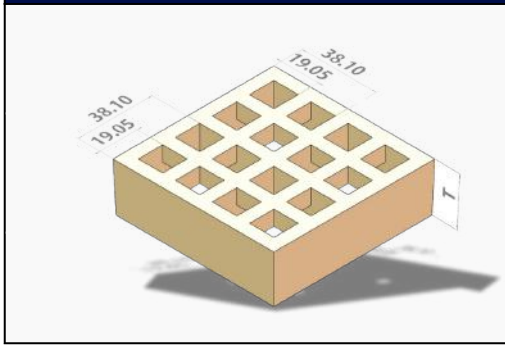
Unit: mm

Image	Depth	Bar Thickness	Standard Dimension	Weight (kg/m2)	Open Ratio %
	50	8.0/ 5.0	1220 x 3660	15.3	68

FRP Moulded Grating Specifications Mini Mesh

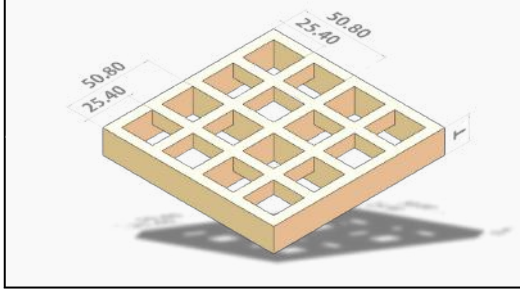
19.05 x 19.05 / 38.1 x 38.1mm Mini Mesh (Disability Friendly)

Unit: mm

Image	Depth	Bar Thickness	Standard Dimension	Weight (kg/m2)	Open Ratio %
	25	6.5/ 5.0	1524 x 4000 1220 x 3660 1220x2440 921 x 3050	16.8	30
	30	6.5/ 5.0	1524 x 4000 1220 x 3660 1220x2440 921 x 3050	18.5	30
	38	6.5/ 5.0	1524 x 4000 1220 x 3660 1220x2440 921 x 3050	23.5	30

25.4 x 25.4 / 50.8 x 50.8mm Mini Mesh

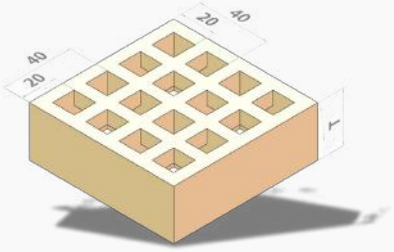
Unit: mm

Image	Depth	Bar Thickness	Standard Dimension	Weight (kg/m2)	Open Ratio %
	15	6.5/ 5.0	1220 x 3660 1220 x 2440 921 x 3050	7.5	55
	50	8.0/ 6.0	1524 x 3660 1220 x 3660 1220 x 2440 921 x 3050	28.5	55

KEY:
Any product listed that is bold, underlined and highlighted blue is a COMMONLY STOCKED ITEM.

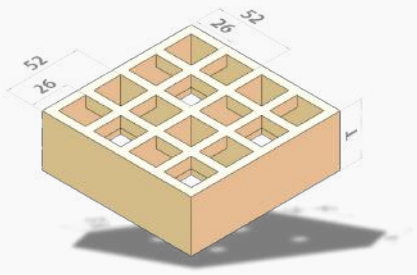
20 x 20mm / 40 x 40 Mini Mesh (Disability Friendly)

Unit: mm

Image	Depth	Bar Thickness	Standard Dimension	Weight (kg/m2)	Open Ratio %
	14	7.0/ 5.0	1247 x 4047 1247 x 3687 1007 x 4007 1007 x 3007	10.5	42
	22	7.0/ 5.0	1527 x 4047 1247 x 3687 1007 x 4007 1007 x 3007	14.5	42
	30	7.0/ 5.0	1527 x 4047 1247 x 3687 1007 x 4007 1007 x 3007	18.0	42
	40	7.0/ 5.0	1527 x 4047 1247 x 3687 1007 x 4007 1007 x 3007	23.5	42
	60	7.0/ 5.0	1007 x 2007 1007 x 3007	38.5	42

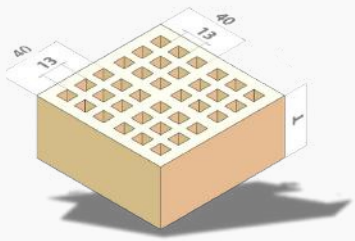
26 x 26/ 52 x 52mm Mini Mesh

Unit: mm

Image	Depth	Bar Thickness	Standard Dimension	Weight (kg/m2)	Open Ratio %
	30	6.5/ 5.0	1532 x 4050	15.5	60
	38	6.5/ 5.0	1220 x 3660 1205 x 4011	19.5	60

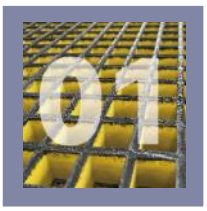
13 x 13 / 40 x 40mm Mini Mesh (Disability Friendly)

Unit: mm

Image	Depth	Bar Thickness	Standard Dimension	Weight (kg/m2)	Open Ratio %
	22	7.0/ 5.0	1247 x 3685 1527 x 4047 1247 x 4047 1007 x 4007 1007 x 3007	15.0	30
	30	7.0/ 5.0	1527 x 4047 1247 x 4047 1007 x 4007 1007 x 3007	19.0	30
	40	7.0/ 5.0	1527 x 4047 1247 x 4047 1007 x 4007 1007 x 3007	25.0	30

KEY:
Any product listed that is bold, underlined and highlighted blue is a COMMONLY STOCKED ITEM.

Unique Types of Moulded Grating



Conductive Grating

Conductive Grating is primarily used in the high-tech electronic industries, munitions, arsenal manufacturing plants, and other sparking sensitive environments where sophisticated equipment may be damaged due to static electricity. The electric resistance of our conductive grating is 1 x 10^5 ohms to 5 x 10^5 ohms.

Transparent Grating

Transparent Grating is produced by pure resin or with low content of colour paste. With UV inside, this type of grating can keep its colour stable for a long time. Due to the high content of the resin, has even better chemical resistance than normal grating with colours. Transparent gratings are used as walkway, wall decoration and fencing. Also, many applications where clients ask for genius chemical resistance and will choose this type of pure resin grating.

Moulded Grating Load Tables

Appendix 1:

Load Table for Molded Grating

1. Deflection is in mm.
2. Walking loads, typically 65-80kg maximum are recommended for pedestrian traffic. Deflections for worker comfort are typically limited to the lesser of 10mm or **Clear Span** divided by 125; for a firmer feel, limit deflection to the lesser of 6.4mm or **Clear Span** divided by 200.
3. The allowable Loads in this table are for **Static Load Conditions** at ambient temperatures only. Allowable loads for impact or dynamic conditions should be a maximum of **One-Half** the values shown. Long term loads will result in added deflection due to the creep in the material and will also require higher safety factors to ensure acceptable performance. For applications at elevated temperatures, please consult with Grating FRP Australia. The design is further referenced to the ASCE Structural Plastics Design Manual.
4. All Gratings were tested in accordance with ANSI Standard; FRP Composites Grating Manual for Pultruded and Molded Grating and Stair Treads.

Concentrated Line Load

38 x 38mm mesh

Span (mm)	Height (mm)	Load kg/m of width							Max Load (kg/m)
		75	150	300	450	600	750	1500	
300	20	0.25	0.53	1.12	1.71	2.38	2.86	/	4,470
	25	<0.25	0.42	0.88	1.45	2.27	2.62	/	5,970
	30	<0.25	0.28	0.52	0.78	1.17	1.54	3.12	9,924
	38	/	<0.25	0.29	0.51	0.66	0.77	1.57	17,120
	60	/	/	/	0.35	0.49	0.65	1.34	25,328
450	20	0.76	0.62	3.34	5.02	/	/	/	2,980
	25	0.56	1.15	2.16	3.08	4.16	4.76	/	3,910
	30	0.28	0.51	1.13	1.53	2.09	2.63	/	4,828
	38	<0.25	0.47	0.91	1.36	1.86	2.33	4.81	12,980
	60	/	<0.25	0.45	0.67	0.89	1.14	2.35	19,445
600	20	1.79	3.61	7.36	/	/	/	/	2,235
	25	0.87	1.71	3.51	5.2	6.72	/	/	2,924
	30	0.53	1.29	2.31	3.62	4.82	5.96	/	4,089
	38	0.36	0.65	1.25	1.35	2.47	3.08	6.36	8,720
	60	<0.25	0.31	0.63	0.92	1.2	1.49	3.01	13,391
750	20	2.79	5.6	11.4	/	/	/	/	1,788
	25	1.36	4.47	9.37	/	/	/	/	2,287
	30	1.27	2.61	4.91	7.44	11.06	/	/	3,175
	38	0.63	1.14	2.17	3.24	4.36	5.45	11.94	7,270
	60	0.35	0.71	1.38	2.11	2.81	3.49	7.03	11,331
900	20	5.33	10.81	/	/	/	/	/	1,490
	25	2.91	5.92	12.12	/	/	/	/	1,948
	30	1.79	3.91	7.76	11.51	/	/	/	2,641
	38	0.87	1.81	3.68	5.56	7.42	9.31	/	5,817
	60	0.47	0.97	1.89	2.87	3.82	4.74	9.51	9,266
1200	20	14.77	/	/	/	/	/	/	/
	25	5.72	11.64	/	/	/	/	/	1,431
	30	3.61	7.91	14.37	/	/	/	/	1,286
	38	2.26	4.75	9.68	14.63	/	/	/	3,755
	60	1.08	2.18	4.42	6.62	8.79	11.02	22.15	6,366

Uniform Load

38 x 38mm mesh

Span (mm)	Height (mm)	Load kg/m2							Max Load (kg/m2)
		150	350	500	750	1000	1500	2500	
300	20	<0.25	<0.25	0.25	0.51	0.76	1.02	1.53	25,300
	25	<0.25	<0.25	<0.25	<0.25	0.26	0.31	0.64	31,625
	30	<0.25	<0.25	<0.25	<0.25	<0.25	0.26	0.53	33,000
	38	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.42	41,800
	60	/	/	/	/	/	/	/	
450	20	0.38	1.02	1.53	2.29	3.05	4.58	7.62	16,608
	25	0.30	0.38	0.62	0.94	1.22	1.85	2.75	20,759
	30	0.25	0.32	0.52	0.78	1.02	1.54	2.29	21,662
	38	0.20	0.25	0.41	0.62	0.81	1.22	1.81	27,439
	60	/	/	0.41	0.61	0.82	1.22	2.03	60,654
600	20	1.23	3.08	4.57	7.12	9.41	/	/	9,951
	25	0.98	1.24	1.85	2.75	3.35	5.18	8.86	12,439
	30	0.82	1.03	1.54	2.29	2.79	4.32	7.38	12,980
	38	0.65	0.81	1.22	1.81	2.20	5.64	14.10	16,441
	60	0.33	0.41	0.62	0.92	1.12	2.86	7.14	36,344
750	20	1.61	5.84	8.89	/	/	/	/	6,360
	25	1.28	3.05	4.57	6.86	9.15	/	/	7,950
	30	1.07	2.54	3.81	5.72	7.62	11.69	/	8,296
	38	0.48	2.01	3.01	4.51	/	/	/	10,508
	60	0.43	1.02	1.52	2.29	4.75	7.13	/	23,229
900	20	3.21	8.91	12.03	/	/	/	/	4,414
	25	2.57	7.13	9.62	/	/	/	/	5,518
	30	2.14	4.58	7.11	10.67	/	/	/	5,758
	38	1.69	3.62	5.61	8.42	/	/	/	7,293
	60	0.68	1.83	2.84	4.27	6.41	9.62	/	16,122
1200	20	8.87	12.37	/	/	/	/	/	2,262
	25	7.10	9.90	12.46	/	/	/	/	2,827
	30	5.91	8.25	11.78	/	/	/	/	3,392
	38	4.67	6.51	9.30	13.95	/	/	/	4,297
	60	2.37	3.30	4.71	7.07	9.43	14.15	/	9,499

Concentrated Point Load

38 x 38mm mesh

Span (mm)	Height (mm)	Load k/g							
		150	350	500	750	1000	1500	2500	3000
300	20	/	0.55	0.74	1.29	1.72	2.23	3.53	4.36
	25	/	0.44	0.59	1.03	1.37	1.78	2.82	3.49
	30	/	0.37	0.49	0.86	1.14	1.48	2.35	2.91
	38	/	0.29	0.39	0.68	0.90	1.17	1.86	2.29
	60	/	/	/	/	/	/	/	/
450	20	0.33	0.83	1.11	1.94	2.58	3.34	5.29	6.54
	25	0.26	0.66	0.89	1.55	2.06	2.67	4.23	5.23
	30	/	0.55	0.74	1.29	1.72	2.23	3.53	4.36
	38	/	0.43	0.59	1.02	1.36	1.76	2.78	3.44
	60	/	/	/	0.37	0.49	0.64	1.01	1.25
600	20	0.93	1.94	2.53	3.98	5.65	7.65	/	/
	25	0.74	1.55	2.02	3.18	4.52	6.12	/	/
	30	0.62	1.29	1.68	2.65	3.77	5.10	8.37	/
	38	0.49	1.02	1.33	2.09	2.97	4.03	6.71	/
	60	/	0.37	0.48	0.76	1.08	1.46	2.43	2.92
750	20	1.58	3.68	4.73	7.49	10.99	/	/	/
	25	1.26	2.94	3.78	5.99	8.79	/	/	/
	30	1.05	2.45	3.15	4.99	7.33	/	/	/
	38	0.83	1.93	2.49	3.94	5.78	7.84	/	/
	60	0.30	0.70	0.90	1.43	2.09	2.84	4.73	5.68
900	20	2.23	5.40	6.91	11.01	16.33	/		/
	25	1.78	4.32	5.53	8.81	13.06	/	/	/
	30	1.48	3.60	4.61	7.34	10.88	/	/	/
	38	1.17	2.84	3.64	5.80	8.59	11.65	/	/
	60	0.42	1.03	1.32	2.10	3.11	4.22	7.03	8.44
1200	20	3.69	9.28	12.98	/	/	/	/	/
	25	2.95	7.42	10.38	15.06	/	/	/	/
	30	2.46	6.18	8.65	12.55	/	/	/	/
	38	1.94	4.88	6.83	9.91	14.56	/	/	/
	60	0.70	1.77	2.47	3.59	5.27	7.16	11.39	/

Concentrated Line Load

40 x 40mm mesh

Span (mm)	Height (mm)	Load kg/m of width							Max Load (kg/m)
		75	150	300	450	600	750	1500	
300	25	<0.25	0.44	0.89	1.44	2.28	2.61	/	5,687
	30	<0.25	0.29	0.54	0.81	1.29	1.68	3.42	9,724
	40	/	<0.25	0.3	0.52	0.67	0.78	1.58	17,010
450	25	0.57	1.17	2.14	3.12	4.16	4.79	/	3,878
	30	0.3	0.53	1.07	1.63	2.13	2.82	5.81	4,733
	40	<0.25	0.48	0.92	1.37	1.87	2.35	4.84	12,680
600	25	0.86	1.73	3.53	5.19	6.75	/	/	2,864
	30	0.52	1.31	2.33	3.65	4.86	6.03	/	3,898
	40	0.38	0.67	1.28	1.89	2.51	3.38	6.86	8,498
750	25	1.34	4.49	9.41	/	/	/	/	2,094
	30	1.29	2.63	4.91	7.47	11.36	/	/	2,871
	40	0.65	1.18	2.23	3.36	4.24	5.49	/	6,970
900	25	2.94	5.95	12.25	/	/	/	12.07	1,784
	30	1.89	3.95	7.83	11.73	/	/	/	2,442
	40	0.91	1.84	3.75	5.69	7.57	9.71	/	5.537
1200	25	5.81	11.96	/	/	/	/	/	1,358
	30	3.63	7.96	14.67	/	/	/	/	1,235
	40	2.35	5.02	9.87	15.01	/	/	/	3,455

Uniform Load

40 x 40mm mesh

Span (mm)	Height (mm)	Load kg/m2							Max Load (kg/m2)
		150	350	500	750	1000	1500	2500	
300	25	<0.25	<0.25	<0.25	<0.25	0.27	0.33	0.67	30,044
	30	<0.25	<0.25	<0.25	<0.25	<0.25	0.27	0.56	31,350
	40	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.42	39,710
450	25	0.32	0.40	0.66	0.99	1.29	1.95	2.89	19,721
	30	0.26	0.34	0.55	0.82	1.07	1.62	2.41	20,579
	40	0.20	0.25	0.41	0.62	0.81	1.22	1.81	26,067
600	25	1.04	1.30	1.95	2.89	3.52	5.46	9.32	11,817
	30	0.86	1.08	1.62	2.41	2.94	4.55	7.77	12,331
	40	0.65	0.81	1.22	1.81	2.20	6.43	/	15,619
750	25	1.35	3.21	4.81	7.22	9.63	/	/	7,553
	30	1.13	2.67	4.01	6.02	8.02	12.31	/	7,881
	40	0.84	2.01	3.01	4.51	8.91	/	/	9,983
900	25	2.70	7.51	10.13	/	/	/	/	5,242
	30	2.25	4.82	7.48	11.23	/	/	/	5,470
	40	1.69	3.62	5.61	8.42	11.18	/	/	6,929
1200	25	7.74	10.42	14.88	/	/	/	/	2,686
	30	6.22	8.68	12.40	/	/	/	/	5,470
	40	1.69	3.62	5.61	8.32	11.18	/	/	6,929

Concentrated Point Load

40 x 40mm mesh

Span (mm)	Height (mm)	Load kg							
		150	350	500	750	1000	1500	2500	3000
300	25	/	0.46	0.62	1.08	1.44	1.87	2.96	3.66
	30	/	0.35	0.47	0.82	1.08	1.41	2.23	2.75
	40	/	0.26	0.35	0.61	0.81	1.05	1.67	2.06
450	25	0.27	0.69	0.93	1.63	2.16	2.80	4.44	5.49
	30	0.25	0.58	0.78	1.36	1.81	2.34	3.71	4.59
	40	/	0.43	0.59	1.02	.36	1.76	2.78	3.44
600	25	0.78	1.63	2.12	3.34	4.75	6.43	/	/
	30	0.65	1.36	1.77	2.79	3.96	5.37	8.81	/
	40	0.49	1.02	1.33	2.09	2.97	4.03	6.61	/
750	25	1.32	3.09	3.97	6.29	9.23	/	/	/
	30	1.11	2.58	3.32	5.25	7.71	/	/	/
	40	0.83	1.93	2.49	3.94	5.78	7.82	/	/
900	25	1.87	4.54	5.81	9.25	13.71	/	/	/
	30	1.56	3.79	4.85	7.73	11.46	/	/	/
	40	1.17	2.84	3.64	.80	8.59	/	/	/
1200	25	3.10	7.79	10.90	15.81	/	/	/	/
	30	2.59	6.51	9.11	13.21	/	/	/	/
	40	1.94	4.88	6.83	9.91	13.22	/	/	/

Concentrated Line Load

50 x 50mm mesh

Span (mm)	Height (mm)	Load kg/m of width							Max Load (kg/m)
		75	150	300	450	600	750	1500	
300	25	<0.25	<0.25	0.43	0.62	0.82	0.94	1.93	15,138
	30	0.29	0.32	0.43	0.49	0.65	0.75	1.51	18,922
	40	0.28	0.31	0.41	0.47	0.63	0.72	1.45	22,526
450	25	0.27	0.56	1.03	1.47	2.13	2.89	5.96	11,467
	30	0.32	0.45	0.82	1.17	1.69	2.29	4.72	14,346
	40	0.31	0.42	0.74	0.92	1.22	.21	4.52	17,078
600	25	0.45	0.79	1.48	2.29	2.87	3.54	7.18	7,710
	30	0.36	0.62	1.16	1.81	2.27	2.81	5.65	9,638
	40	0.35	0.58	1.06	.76	2.16	2.56	5.23	11,473
750	25	0.64	1.33	2.37	3.61	4.69	6.08	12.21	6,412
	30	0.51	1.06	1.88	.81	3.71	4.83	9.69	8,040
	40	0.46	0.91	1.58	2.36	3.46	4.57	9.14	9,566
900	25	1.93	2.11	4.23	5.46	6.49	7.73	1.58	5,148
	30	0.74	1.87	3.67	4.63	5.56	6.63	12.86	6,443
	40	1.51	1.67	3.37	4.33	5.16	6.13	12.46	7,780
1200	25	2.09	4.27	8.68	10.92	13.17	/	/	3,421
	30	1.71	3.58	7.12	8.97	11.13	14.06	/	4,276
	40	1.67	3.41	6.94	8.72	10.52	13.32	/	5,843

Uniform Load

50 x 50mm mesh

Span (mm)	Height (mm)	Load kg/m2							Max Load (kg/m2)
		150	350	500	750	1000	1500	2000	
300	40lt	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.53	31,268
	50lt	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.43	39,085
	50	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.39	53,602
450	40lt	0.25	0.32	0.51	0.77	1.01	1.52	2.26	20,525
	50lt	<0.25	<0.25	0.41	0.62	0.81	1.22	1.81	25,656
	50	<0.25	<0.25	0.30	0.45	0.59	0.89	1.32	35,186
600	40lt	0.81	1.02	1.52	2.26	2.75	8.04	/	12,299
	50lt	0.65	0.81	1.22	1.81	2.20	6.33	/	15,373
	50	0.47	0.59	0.89	1.32	1.61	4.69	6.13	21,083
750	40lt	1.06	2.51	3.76	5.64	11.14	/	/	7,861
	50lt	0.84	2.01	3.01	4.51	8.91	/	/	9,826
	50	0.62	1.46	2.19	3.29	6.50	9.23	/	13,475
900	40lt	2.11	4.52	7.02	10.52	13.98	/	/	5,456
	50lt	1.69	3.62	5.61	8.42	11.18	/	/	6,820
	50	1.23	2.64	4.09	6.14	8.15	/	/	9,353
1200	40lt	2.11	4.52	7.02	10.52	13.98	/	/	5,456
	50lt	4.67	6.51	9.30	12.56	/	/	/	4,018
	50	3.40	4.75	6.78	9.16	12.07	/	/	5,510

Concentrated Point Load

50 x 50mm mesh

Span (mm)	Height (mm)	Load kg							
		150	350	500	750	1000	1500	2500	3000
300	40lt	/	0.47	0.62	0.97	1.38	1.86	3.06	/
	50lt	/	0.46	0.60	0.95	1.35	1.82	2.99	/
	50	/	0.37	0.48	0.76	1.08	1.47	2.41	2.89
450	40lt	0.38	0.79	1.03	1.61	2.29	3.11	5.10	/
	50lt	0.33	0.69	0.90	1.42	2.02	2.73	4.49	/
	50	0.27	0.56	0.73	1.14	1.63	2.20	3.61	4.34
600	40lt	0.56	1.17	1.52	2.39	3.40	4.60	7.55	/
	50lt	0.49	1.03	1.34	2.10	2.99	4.05	6.65	/
	50	0.39	0.83	1.08	1.69	2.41	3.26	5.35	6.42
750	40lt	0.95	2.21	2.84	4.50	6.61	8.94	/	/
	50lt	0.83	1.95	2.50	3.96	5.82	7.87	/	/
	50	0.67	1.57	2.01	3.19	4.68	6.33	9.87	/
900	40lt	1.34	3.25	4.16	6.62	9.82	/	/	/
	50lt	1.18	2.26	3.66	5.83	8.64	/	/	/
	50	0.95	2.30	2.95	4.69	6.96	10.11	/	/
1200	40lt	2.22	5.58	7.81	11.32	15.11	/	/	/
	50lt	1.95	4.91	6.87	9.97	13.30	/	/	/
	50	1.57	3.95	5.53	8.02	10.71	15.53	/	/

Concentrated Line Load

25 x 100mm mesh

Span	Height	Load kg/m of width							Max Load
(mm)	(mm)	75	150	300	450	600	750	1500	(kg/m)
300	25	0.33	0.49	0.74	0.99	1.29	1.52	3.06	9,442
	30	<0.25	0.25	0.63	0.87	1.15	1.44	2.74	10,143
	25HD	<0.25	0.25	0.63	0.86	1.13	1.46	2.76	10,058
	38	<0.25	<0.25	0.56	0.67	0.87	1.04	1.85	13,442
450	25	0.61	1.11	2.11	3.09	4.11	5.15	/	6,878
	30	0.51	.76	1.79	2.57	3.30	4.3	/	7,329
	25HD	0.52	0.77	1.78	2.56	3.31	4.32	/	7,265
	38	0.41	0.73	1.41	2.21	2.74	3.42	4.31	10,454
600	25	0.87	1.73	3.47	5.19	6.92	/	/	4,305
	30	0.74	1.63	3.17	5.04	6.73	/	/	5,903
	25HD	0.76	1.62	3.17	5.02	6.71	/	/	5,775
	38	0.59	1.15	2.31	3.51	4.61	5.35	6.28	6,544
750	25	1.41	2.72	5.12	7.18	9.56	/	/	3,589
	30	1.35	2.22	4.83	6.71	8.89	/	/	4,926
	25HD	1.36	2.24	4.84	6.69	8.96	/	/	4,844
	38	0.94	.81	3.39	5.13	6.32	7.74	/	5,456
900	25	2.42	4.73	8.83	12.42	/	/	/	3,216
	30	2.27	4.15	7.64	9.35	/	/	/	4,289
	25HD	2.29	4.14	7.67	/	/	/	/	4,172
	38	1.61	3.12	5.83	8.21	9.17	10.23	/	4,889
1200	25	4.23	6.29	11.76	16.52	/	/	/	2,431
	30	3.35	5.47	/	/	/	/	/	3,674
	25HD	3.49	5.48	/	/	/	/	/	3,504
	38	2.84	4.15	7.79	11.01	/	/	/	3,967

Uniform Load

25 x 100mm mesh 

Span	Height	Load kg/m2							Max Load
(mm)	(mm)	150	350	500	750	1000	1500	2500	(kg/m2)
300	25	/	0.28	0.37	0.51	0.63	0.73	1.04	26,350
	30	/	/	0.31	0.43	0.53	0.61	0.87	31,620
	25HD	/	/	/	0.26	0.53	0.79	1.32	32,940
	38	/	/	/	0.34	0.41	0.48	0.68	40,052
450	25	0.53	0.72	1.36	2.16	2.86	3.54	7.22	15,128
	30	0.44	0.61	1.13	1.80	2.38	2.95	6.02	18,154
	25HD	0.29	0.51	0.76	1.27	1.53	2.29	3.82	18,910
	38	0.35	0.47	0.89	1.42	1.88	2.33	4.75	22,995
600	25	0.73	0.92	1.86	2.46	3.68	5.54	9.22	12,688
	30	0.16	0.77	1.55	2.05	3.07	3.62	7.68	15,226
	25HD	0.89	1.27	2.03	3.30	4.32	6.35	/	15,860
	38	0.48	0.61	1.22	.62	2.42	3.64	6.07	19,286
750	25	1.65	2.86	3.71	5.63	8.32	/	/	10,150
	30	1.38	2.38	3.09	4.69	6.93	/	/	12,180
	25HD	1.87	3.06	4.57	7.12	9.41	/	/	12,688
	38	1.09	1.88	2.44	3.70	5.47	7.87	/	15,428
900	25	2.13	3.64	6.61	9.87	12.57	/	/	7,289
	30	1.78	3.03	5.51	8.23	10.48	/	/	8,747
	25HD	3.87	5.84	8.89	/	/	/	/	9,111
	38	1.40	2.39	4.35	6.49	8.27	12.16	/	11,079
1200	25	5.62	8.37	14.91	/	/	/	/	4,587
	30	4.71	6.98	12.43	/	/	/	/	5,504
	25HD	7.62	12.71	/	/	/	/	/	5,734
	38	3.72	5.51	9.81	13.47	/	/	/	6,972

Concentrated Point Load

25 x 100mm mesh

Span (mm)	Height (mm)	Load kg/m2							
		150	350	500	750	1000	1500	2500	3000
300	25	0.29	0.69	0.99	1.50	2.13	2.89	4.74	/
	30	/	0.58	0.83	1.25	1.78	2.41	3.95	/
	25HD	/	0.52	0.74	1.13	1.60	2.17	3.56	/
	38	/	0.46	0.66	.01	1.43	1.94	3.18	/
450	25	0.47	1.10	1.43	2.25	3.20	4.33	/	/
	30	0.39	0.91	1.19	1.88	2.67	3.61	4.83	/
	25HD	0.35	0.82	1.07	1.69	2.40	3.25	4.39	/
	38	0.32	0.74	0.96	1.51	2.15	2.91	3.89	4.85
600	25	0.69	1.63	2.12	3.34	4.74	6.42	/	/
	30	0.58	1.35	1.77	2.78	3.95	5.35	/	/
	25HD	0.52	1.22	1.59	2.50	3.56	4.81	7.36	/
	38	0.46	1.09	1.42	2.24	3.18	4.31	5.82	/
750	25	1.32	3.08	3.97	6.28	9.22	/	/	/
	30	1.10	2.57	3.30	5.24	7.68	/	/	/
	25HD	0.99	2.31	2.97	4.71	6.92	9.34	/	/
	38	0.89	2.07	2.66	4.22	6.19	8.35	/	/
900	25	1.87	4.53	5.80	9.24	/	/	/	/
	30	1.56	3.78	4.83	7.70	10.27	/	/	/
	25HD	1.40	3.40	4.35	6.93	9.23	/	/	/
	38	1.25	3.04	3.89	6.20	8.27	/	/	/
1200	25	3.09	7.78	10.89	15.80	/	/	/	/
	30	2.58	6.49	9.07	13.17	/	/	/	/
	25HD	2.32	5.84	8.17	11.85	/	/	/	/
	38	2.08	5.22	7.31	10.60	13.25	/	/	/

Concentrated Line Load

Slot Mesh

Span (mm)	Type		Load kg/m of width							Max Load (kg/m)
	Height (mm)	Mesh (mm)	75	150	300	450	600	750	1500	
300	38	38 x 100	<0.25	0.25	0.59	0.75	1.02	1.32	2.53	11,882
	38	25 x 125	<0.25	0.33	0.61	0.89	1.16	1.42	2.46	11,796
	38	38 x 152	/	<0.25	0.25	0.52	0.63	.78	1.62	12,628
	50	25 x 50	/	/	/	/	/	<0.25	0.27	69,741
	28	60 x 100	0.39	0.54	1.08	1.38	1.86	2.4	4.62	6,507
	40	60 x 220	0.53	0.89	2.09	2.66	3.61	/	/	3,366
450	38	38 x 100	0.49	0.76	1.67	2.43	3.17	3.96	5.61	9,657
	38	25 x 125	0.33	0.56	0.97	1.32	1.65	1.98	3.35	9,737
	38	38 x 152	<0.25	0.25	0.78	1.12	1.55	1.79	.24	9,946
	50	25 x 50	/	/	/	/	/	0.26	0.54	48,574
	28	60 x 100	1.04	/1.62	3.04	4.43	/	/	/	5,288
	40	60 x 220	0.89	2.69	1.67	3.91	5.19	/	/	2,736
600	38	38 x 100	0.71	1.51	2.86	4.37	5.86	6.21	8.58	6,039
	38	25 x 125	0.54	0.79	1.32	1.81	2.31	2.82	5.11	6,109
	38	38 x 152	0.25	0.78	1.55	2.29	3.05	3.81	5.17	8,253
	50	25 x 50	/	/	0.27	0.39	0.48	0.55	1.29	40,530
	28	60 x 100	1.51	3.21	5.21	7.98	/	/	/	3,307
	40	60 x 220	0.76	4.36	6.13	8.92	/	/	/	1,711
750	38	38 x 100	1.18	2.02	6.62	6.45	7.48	8.68	/	5,176
	38	25 x 125	0.77	1.07	1.96	2.82	3.69	4.57	8.34	5,243
	38	38 x 152	0.76	1.28	2.81	4.07	5.34	6.62	8.68	7,104
	50	25 x 50	/	/	0.51	0.77	1.03	1.28	2.29	32,346
	28	60 x 100	2.5	4.29	7.82	/	/	/	/	2,834
	40	60 x 220	3.38	6.08	9.19	/	/	/	/	1,466
900	38	38 x 100	2.02	3.67	6.94	9.23	11.17	/	/	4,429
	38	25 x 125	1.09	2.08	2.91	4.63	5.56	6.48	12.09	4.435
	38	38 x 152	1.04	2.29	.32	6.61	8.64	10.92	/	6,146
	50	25 x 50	/	/	0.75	1.18	1.63	2.05	4.13	26,969
	28	60 x 100	4.19	6.68	9.22	/	/	/	/	2,452
	40	60 x 220	4.51	7.67	10.23	/	/	/	/	1,255
1200	38	38 x 100	3.55	4.69	9.12	12.06	/	/	/	3,816
	38	25 x 125	2.06	2.95	5.77	.56	/	/	/	3,834
	38	38 x 152	2.28	4.83	9.66	12.87	/	/	/	5,145
	50	25 x 50	/	/	1.46	2.09	2.74	3.35	6.37	23,095
	28	60 x 100	7.52	8.24	11.67	/	/	/	/	2,090
	40	60 x 220	6.55	11.69	/	/	/	/	/	1,081

Uniform Load

Slot Mesh

Span (mm)	Type		Load kg/m2							Max Load (kg/m2)
	Height (mm)	Mesh (mm)	150	350	500	750	1000	1500	2500	
300	38	38 x 100	/	/	0.34	0.50	0.62	0.72	1.03	26,701
	38	25 x 125	/	/	0.37	0.53	0.65	0.76	1.08	25,366
	38	38 x 152	/	0.37	0.56	0.79	0.98	1.14	1.62	16,911
	50	25 x 50	/	/	/	/	/	/	/	456,768
	28	60 x 100	0.28	0.59	0.78	1.08	1.33	1.54	2.19	11,456
	40	60 x 220	0.36	0.84	1.26	1.81	2.23	2.59	3.68	7,439
450	38	38 x 100	0.52	0.71	1.34	2.13	2.82	3.49	7.13	15,330
	38	25 x 125	0.55	0.75	1.41	2.24	2.97	3.68	7.5	14,563
	38	38 x 152	0.83	1.12	2.12	3.37	4.46	5.52	1.25	9,709
	50	25 x 50	/	/	/	/	/	/	/	212,280
	28	60 x 100	1.12	1.52	2.87	4.56	/	/	/	6,577
	40	60 x 220	1.88	2.55	4.82	7.65	/		/	4,271
600	38	38 x 100	0.72	0.91	1.84	2.43	3.63	5.47	9.10	12,857
	38	25 x 125	0.76	0.96	1.93	2.56	3.82	.75	9.58	12,214
	38	38 x 152	1.14	1.43	2.90	3.83	5.73	8.63	/	8,143
	50	25 x 50	/	/	0.31	0.51	0.62	0.77	0.95	132,736
	28	60 x 100	1.54	1.94	3.92	5.19	7.76	/	/	5,516
	40	60 x 220	2.59	3.26	6.59	/	/	/	/	3,582
750	38	38 x 100	1.63	2.82	3.66	5.56	8.21	11.81	/	10,285
	38	25 x 125	1.71	2.97	3.85	.85	8.64	12.43	/	9,771
	38	38 x 152	2.57	4.46	5.78	8.77	/	/	/	6,514
	50	25 x 50	/	0.74	1.02	1.53	1.63	1.78	2.02	84,912
	28	60 x 100	3.48	6.03	7.82	/	/		/	4,413
	40	60 x 220	5.84	10.13	/	/	/	/	/	2,865
900	38	38 x 100	2.10	3.59	6.52	9.74	12.40	/	/	7,386
	38	25 x 125	2.21	3.78	6.87	10.25	13.06	/	/	7,017
	38	38 x 152	3.32	5.67	10.30	/	/	/	/	4,678
	50	25 x 50	0.76	1.52	2.28	3.06	3.63	3.81	4.17	42,944
	28	60 x 100	4.49	7.68	13.94	/	/	/	/	3,169
	40	60 x 220	7.54	12.89	/	/	/	/	/	2,058
1200	38	38 x 100	5.58	8.26	14.71	/	/	/	/	4,678
	38	25 x 125	5.87	8.69	15.49	/	/	/	/	4,416
	38	38 x 152	8.80	13.04	/	/	/	/	/	2,944
	50	25 x 50	2.79	3.02	4.86	5.61	6.34	7.13	8.12	32,912
	28	60 x 100	11.92	17.65	/	/	/	/	/	1,994
	40	60 x 220	/	/	/	/	/	/	/	1,295

Concentrated Point Load

Slot Mesh

Span (mm)	Type		Load kg							
	Height (mm)	Mesh (mm)	150	350	500	750	1000	1500	2500	3000
300	38	38 x 100	0.27	0.68	0.98	1.48	2.10	2.85	4.68	/
	38	25 x 125	0.28	0.66	.95	1.44	2.04	2.76	4.53	/
	38	38 x 152	0.38	0.97	1.39	2.11	3.00	4.06	/	/
	50	25 x 50	/	/	/	0.38	0.54	0.73	1.20	1.45
	28	60 x 100	0.57	1.43	2.05	3.08	/	/	/	/
	40	60 x 220	0.87	2.20	3.16	/	/	/	/	/
450	38	38 x 100	0.46	1.08	1.41	2.22	3.16	4.27	/	/
	38	25 x 125	0.45	1.05	1.37	2.15	3.06	4.14	5.54	/
	38	38 x 152	0.66	1.54	2.01	3.17	4.50	/	/	/
	50	25 x 50	/	0.28	0.36	0.57	0.81	1.10	1.81	2.17
	28	60 x 100	0.98	2.28	2.97	4.34	/	/	/	/
	40	60 x 220	1.50	3.51	4.57	/	/	/	/	/
600	38	38 x 100	0.68	1.60	2.09	3.29	4.68	6.33	/	/
	38	25 x 125	0.66	1.55	2.03	3.19	4.53	6.14	/	/
	38	38 x 152	0.97	2.29	2.98	4.69	6.67	/	/	/
	50	25 x 50	/	0.41	0.54	0.85	1.20	1.63	2.68	3.21
	28	60 x 100	1.43	3.37	4.40	5.52	/	/	/	/
	40	60 x 220	2.20	5.20	6.77	/	/	/	/	/
750	38	38 x 100	1.30	3.04	3.91	6.20	9.10	/	/	/
	38	25 x 125	1.26	2.95	3.79	6.01	8.82	/	/	/
	38	38 x 152	1.86	4.34	5.57	8.83	/	/	/	/
	50	25 x 50	0.34	0.78	1.01	1.60	2.34	3.17	4.94	5.93
	28	60 x 100	2.74	6.40	7.69	/	/	/	/	/
	40	60 x 220	4.22	9.86	/	/	/	/	/	/
900	38	38 x 100	1.84	4.47	5.72	9.12	/	/	/	/
	38	25 x 125	1.79	4.33	5.55	8.84	11.78	/	/	/
	38	38 x 152	2.62	6.37	8.15	/	/	/	/	/
	50	25 x 50	0.47	1.15	1.47	2.35	3.48	5.06	6.83	8.21
	28	60 x 100	3.87	9.40	/	/	/	/	/	/
	40	60 x 220	5.97	14.48	/	/	/	/	/	/
1200	38	38 x 100	3.05	7.78	10.74	15.58	/	/	/	/
	38	25 x 125	2.96	7.44	10.41	15.11	/	/	/	/
	38	38 x 152	4.35	10.94	15.31	/	/	/	/	/
	50	25 x 50	0.79	1.98	2.77	4.01	5.35	7.77	10.49	12.59
	28	60 x 100	6.42	16.15	/	/	/	/	/	/
	40	60 x 220	9.89	24.87	/	/	/	/	/	/

Concentrated Line Load

Mini Mesh/ Micro Mesh

Span (mm)	Type		Load kg/m of width							Max Load (kg/m)
	Height (mm)	Mesh (mm)	75	150	300	450	600	750	1500	
300	25	19 x 19/ 38 x 38	<0.25	0.26	0.47	0.71	1.05	1.41	2.95	10,916
	38		<0.25	<0.25	0.36	0.45	0.58	0.69	1.41	19,373
	30	20 x 20/ 40 x 40	<0.25	0.26	0.49	0.74	1.26	1.57	3.13	10,696
	40		/	/	0.26	0.49	0.61	0.71	1.44	18,711
	38	26 x 26/ 52 x 52	<0.25	<0.25	0.38	0.56	0.73	0.85	1.73	16,745
	50	25 x 25/ 50 x 50	/	<0.25	0.28	0.43	0.58	0.66	1.33	23,877
	40	13 x 13/ 40 x 40	<0.25	<0.25	0.32	0.48	0.82	1.02	2.03	14,481
450	25	19 x 19/ 38 x 38	0.27	0.47	0.94	1.39	1.93	2.41	5.02	5,311
	38		<0.25	0.42	0.82	1.21	1.65	2.08	4.24	14,688
	30	20 x 20/ 40 x 40	0.26	0.48	0.96	1.46	1.91	2.49	5.12	5,206
	40		/	0.43	0.83	1.24	1.68	2.13	4.36	13,631
	38	26 x 26/ 52 x 52	<0.25	0.51	0.93	1.34	1.92	2.60	5.34	12,685
	50	25 x 25/ 50 x 50	<02.5	0.39	0.69	0.85	1.12	2.04	4.26	18,103
	40	13 x 13/ 40x40	<0.25	0.35	0.70	1.06	1.39	1.81	3.73	7,048
600	25	19 x 19/ 38 x 38	0.49	1.2	2.16	3.34	4.39	5.45	/	4,498
	38		0.32	0.58	1.12	1.69	2.27	2.84	5.76	9867
	30	20 x 20/ 40 x 40	0.47	1.17	2.07	3.22	4.29	5.33	9.41	4,289
	40		0.34	0.61	1.16	1.71	2.26	3.06	6.21	9,135
	38	26 x 26/ 52 x 52	.41	0.72	1.32	2.05	2.57	3.18	6.43	8,529
	50	25 x 25/ 50 x 50	0.32	.53	0.98	1.62	2.02	2.38	4.93	12,161
	40	13 x 13/ 40 x 40	0.34	0.85	1.51	2.34	3.12	3.88	6.85	5,807
750	25	19 x 19/ 38 x 38	1.2	2.45	4.52	6.81	10.06	/	/	3,493
	38		0.56	1.02	1.94	2.98	3.88	5.02	10.87	8,227
	30	20 x 20/ 40 x 40	1.14	2.31	4.34	6.58	9.99	/	/	3,158
	40		0.59	1.07	2.11	3.05	3.83	4.96	10.83	7,492
	38	26 x 26/ 52 x 52	0.58	1.21	2.14	3.19	4.21	5.47	10.96	7,114
	50	25 x 25/ 50 x 50	0.42	0.84	1.45	2.15	3.17	4.21	8.48	10,131
	40	13 x 13/ 40x40	.83	1.68	3.16	4.79	7.27	/	/	4,275
900	25	19 x 19/ 38x 38	1.68	3.63	7.09	10.54	/	/	/	2,907
	38		0.77	1.59	3.31	5.16	6.75	8.29	14.58	6,568
	30	20 x 20/ 40 x 40	1.66	3.48	6.89	10.32	/	/	/	2,686
	40		0.83	1.63	3.31	5.12	6.82	8.74	/	6,093
	38	26 x 26/ 52 x 52	0.84	1.89	3.82	4.89	5.83	6.95	14.08	5,701
	50	25 x 25/ 50 x 50	0.47	1.54	3.13	4.01	4.84	5.71	11.64	8,246
	40	13 x 13/ 40x40	1.21	2.53	5.02	7.51	8.64	/	/	3,636
1200	25	19 x 19/ 38x 38	3.31	7.21	13.06	/	/	/	/	1,424
	38		2.11	.23	8.81	13.31	/	/	/	4,249
	30	20 x 20/ 40 x 40	3.21	7.01	12.93	/	/	/	/	1,362
	40		2.12	4.52	8.89	13.51	/	/	/	3,801
	38	26 x 26/ 52 x 52	1.89	3.87	7.84	9.87	11.92	/	/	3,784
	50	25 x 25/ 50 x 50	1.54	3.14	6.39	8.03	9.68	12.21	/	6,289
	40	13 x 13/ 40x40	2.34	5.10	9.41	12.71	/	/	/	/

Uniform Load

Mini Mesh/ Micro Mesh

Span (mm)	Type		Load kg/m2							Max Load (kg/m2)
	Height (mm)	Mesh (mm)	150	350	500	750	1000	1500	2500	
300	25	19 x 19/ 38 x 38	<0.25	0.32	0.42	0.63	0.82	1.23	2.05	56,530
	38		<0.25	<0.25	0.28	0.41	0.54	0.81	1.35	85,930
	30	20 x 20/ 40 x 40	<0.25	<0.25	<0.25	<0.25	<0.25	0.25	0.51	34,037
	40		<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.38	35,383
	38	26 x 26/ 52 x 52	<0.25	<0.25	<0.25	<0.25	0.28	0.37	0.50	41,521
	50	25 x 25/ 50 x 50	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.37	59,818
	40	13 x 13/ 40 x 40	/	/	/	0.31	0.42	0.61	0.97	46,081
450	25	19 x 19/ 38 x 38	<0.25	0.47	0.63	0.94	0.23	1.85	3.08	37,690
	38		<0.25	0.31	0.41	0.62	0.81	1.22	2.03	57,290
	30	20 x 20/ 40 x 40	<0.25	0.31	0.50	0.75	0.98	1.47	2.19	22,343
	40		<0.25	<0.25	0.37	0.56	0.73	1.11	1.64	29,790
	38	26 x 26/ 52 x 52	<0.25	0.28	0.39	0.58	0.76	1.14	1.70	27,255
	50	25 x 25/ 50 x 50	<0.25	<0.25	0.28	0.42	0.55	0.84	1.24	37,297
	40	13 x 13/ 40x40	/	/	0.36	0.54	0.71	1.07	1.60	30,249
600	25	19 x 19/ 38 x 38	0.58	1.33	1.92	2.87	3.73	5.59	9.32	16,360
	38		0.38	0.88	1.26	1.89	2.45	3.68	6.13	24,870
	30	20 x 20/ 40 x 40	0.78	0.99	1.47	2.19	2.67	4.13	7.06	13,388
	40		0.59	0.74	1.11	1.64	2.00	3.10	5.30	17,851
	38	26 x 26/ 52 x 52	0.61	0.77	1.14	1.70	2.07	6.05	7.91	16,332
	50	25 x 25/ 50 x 50	0.45	0.56	0.84	1.24	1.52	4.42	5.78	22,348
	40	13 x 13/ 40 x 40	0.57	0.72	1.07	1.60	1.94	3.01	5.14	18,125
750	25	19 x 19/ 38 x 38	0.73	1.66	2.40	3.59	4.66	6.99	11.65	10,910
	38		0.48	1.09	1.58	2.36	3.07	4.60	7.66	16,580
	30	20 x 20/ 40 x 40	1.02	2.43	3.65	5.47	7.29	/	/	8,557
	40		0.77	1.82	2.73	4.10	5.47	8.16	/	11,409
	38	26 x 26/ 52 x 52	0.80	1.89	2.83	4.25	8.39	/	/	10,438
	50	25 x 25/ 50 x 50	0.58	1.38	2.07	3.10	6.13	8.71	/	14,284
	40	13 x 13/ 40x40	0.75	1.77	2.65	3.98	5.31	7.17	/	11,584
900	25	19 x 19/ 38x 38	2.89	7.01	9.23	/	/	/	/	4,770
	38		1.90	4.61	6.07	9.03	/	/	/	7,250
	30	20 x 20/ 40 x 40	2.05	4.38	6.80	10.21	/	/	/	5,939
	40		1.54	3.29	5.10	7.5	10.08	/	/	7,919
	38	26 x 26/ 52 x 52	1.59	3.40	5.28	7.93	10.52	/	/	7,245
	50	25 x 25/ 50 x 50	1.16	2.49	3.86	5.79	7.69	9.46	/	9,914
	40	13 x 13/ 40x40	1.49	3.19	4.95	7.43	8.54	/	/	8,040
1200	25	19 x 19/ 38x 38	3.85	9.35	12.31	/	/	/	/	3,600
	38		2.53	6.15	8.10	12.09	/	/	/	5,470
	30	20 x 20/ 40 x 40	5.66	7.89	11.27	/	/	/	/	3,499
	40		4.24	5.92	8.45	12.37	/	/	/	4,665
	38	26 x 26/ 52 x 52	4.39	6.13	8.75	11.82	/	/	/	4,268
	50	25 x 25/ 50 x 50	3.21	4.48	6.40	8.64	11.39	/	/	5,841
	40	13 x 13/ 40x40	1.61	4.06	5.68	8.24	9.23	12.45	/	/

Concentrated Point Load

Mini Mesh/ Micro Mesh

Span (mm)	Type		Load kg							
	Height (mm)	Mesh (mm)	150	350	500	750	1000	1500	2500	3000
300	25	19 x 19/ 38 x 38	/	0.29	0.39	0.68	0.90	1.17	1.85	2.29
	38		/	/	0.31	0.54	0.72	0.93	1.48	1.82
	30	20 x 20/ 40 x 40	/	0.33	0.45	0.78	1.03	1.34	.12	2.62
	40		/	.25	0.33	0.58	0.77	1.00	1.59	1.97
	38	26 x 26/ 52 x 52	/	0.48	0.63	0.99	1.41	1.91	3.13	/
	50	25 x 25/ 50 x 50	/	0.34	0.45	0.70	1.00	1.36	2.22	2.67
	40	13 x 13/ 40 x 40	/	/	0.32	0.57	0.75	0.97	1.54	1.91
450	25	19 x 19/ 38 x 38	0.39	0.47	0.64	1.11	1.47	1.91	3.02	3.74
	38		/	0.38	0.52	0.90	1.20	1.55	2.46	3.04
	30	20 x 20/ 40 x 40	0.38	0.50	0.67	1.17	1.55	2.01	3.18	3.93
	40		0.25	0.37	0.50	0.87	1.16	1.51	2.39	2.95
	38	26 x 26/ 52 x 52	0.39	0.81	1.05	1.65	2.35	3.18	5.22	/
	50	25 x 25/ 50 x 50	0.25	0.51	0.67	1.06	1.50	2.03	3.34	4.01
	40	13 x 13/ 40x40	/	0.36	0.49	0.85	1.13	1.46	2.32	2.86
600	25	19 x 19/ 38 x 38	0.53	1.11	1.44	2.27	3.23	4.37	7.17	/
	38		0.43	0.90	1.17	1.85	2.63	3.56	5.93	/
	30	20 x 20/ 40 x 40	0.56	1.17	1.52	2.39	3.40	4.60	7.55	/
	40		0.42	0.87	1.14	1.79	2.55	3.45	5.66	/
	38	26 x 26/ 52 x 52	0.57	1.19	1.55	2.45	3.48	4.71	7.73	/
	50	25 x 25/ 50 x 50	0.36	0.76	0.99	1.57	2.22	3.01	4.94	5.93
	40	13 x 13/ 40 x 40	0.41	0.85	1.11	1.74	2.47	3.35	5.50	/
750	25	19 x 19/ 38 x 38	0.90	2.10	2.70	4.28	6.28	8.47	/	/
	38		0.73	1.71	2.20	3.48	5.11	6.93	/	/
	30	20 x 20/ 40 x 40	0.95	2.21	2.84	4.50	6.61	8.92	/	/
	40		0.71	1.66	2.13	3.38	4.96	6.69	10.23	/
	38	26 x 26/ 52 x 52	0.97	2.26	2.91	4.61	6.77	9.15	/	/
	50	25 x 25/ 50 x 50	0.62	1.45	1.86	2.95	4.33	5.85	9.12	/
	40	13 x 13/ 40x40	0.69	1.61	2.07	3.28	4.81	6.49	/	/
900	25	19 x 19/ 38x 38	1.27	3.09	3.95	6.29	9.33	/	/	/
	38		1.03	2.51	3.22	5.12	7.59	10.30	/	/
	30	20 x 20/ 40 x 40	1.34	3.25	4.16	6.62	9.82	/	/	/
	40		1.00	2.44	3.12	4.97	7.36	9.94	/	/
	38	26 x 26/ 52 x 52	1.37	3.33	4.26	6.78	10.05	/	/	/
	50	25 x 25/ 50 x 50	0.88	2.13	2.72	4.34	6.43	9.34	/	/
	40	13 x 13/ 40x40	0.97	2.36	3.03	4.82	7.15	9.65	/	/
1200	25	19 x 19/ 38x 38	2.11	5.30	7.41	10.76	13.45	/	/	/
	38		1.72	4.31	6.03	8.76	12.87	/	/	/
	30	20 x 20/ 40 x 40	2.22	5.58	7.80	11.32	/	/	/	/
	40		1.66	4.18	5.85	8.49	11.32	/	/	/
	38	26 x 26/ 52 x 52	2.27	5.71	7.99	11.55	15.47	/	/	/
	50	25 x 25/ 50 x 50	1.45	3.65	5.11	7.41	9.98	14.34	/	/
	40	13 x 13/ 40x40	1.61	4.06	5.68	8.24	9.23	12.45	/	/

Concentrated Line Load

HLC Mesh

Span (mm)	Type		Load kg/m of width							Max Load (kg/m)
	Height (mm)	Mesh (mm)	75	150	300	450	600	750	1500	
300	60	38 x 38	/	/	/	0.35	0.49	0.65	1.34	25,328
	50	25 x 25 / 50 x 50	/	<0.25	0.28	0.43	0.58	0.66	1.33	23,877
	25	25 x 100	<0.25	0.25	0.63	0.86	1.13	1.46	2.76	10,058
	50	25 x 50	/	/	/	/	/	<0.25	0.27	69,741
450	60	38 x 38	/	<0.25	0.45	0.67	0.89	1.14	2.35	19,445
	50	25 x 25 / 50 x 50	<0.25	0.39	0.69	0.85	1.12	2.04	4.26	18,103
	25	25 x 100	0.52	0.77	1.78	2.56	3.31	4.32	/	7,265
	50	25 x 50	/	/	/	/	/	0.26	0.54	48,574
600	60	38 x 38	<0.25	0.31	0.63	0.92	1.2	1.49	3.01	13,391
	50	25 x 25 / 50 x 50	0.32	0.53	0.98	1.62	2.02	2.38	4.93	12,161
	25	25 x 100	0.76	1.62	3.17	5.02	6.71	/	/	5,775
	50	25 x 50	/	/	0.27	0.39	0.48	0.55	1.29	40,530
750	60	38 x 38	0.35	0.71	1.38	2.11	2.81	3.49	7.03	11,331
	50	25 x 25 / 50 x 50	0.42	0.84	1.45	2.15	3.17	4.21	8.48	10,131
	25	25 x 100	1.36	2.24	4.84	6.69	8.96	/	/	4,844
	50	25 x 50	/	/	0.51	0.77	1.03	1.28	2.29	32,346
900	60	38 x 38	0.47	0.97	1.89	2.87	3.82	4.74	9.51	9,266
	50	25 x 25 / 50 x 50	0.47	1.54	3.13	4.01	4.84	5.71	11.64	8,246
	25	25 x 100	2.29	4.14	7.67	/	/	/	/	4,172
	50	25 x 50	/	/	0.75	1.18	1.63	2.05	4.13	26,969
1200	60	38 x 38	1.08	2.18	4.42	6.62	8.79	11.02	22.15	6,336
	50	25 x 25 / 50 x 50	1.54	3.14	6.39	8.03	9.68	12.21	/	6,289
	25	25 x 100	3.49	5.48	/	/	/	/	/	3,504
	50	25 x 50	/	/	1.46	2.09	2.74	3.35	6.37	23,095

Uniform Load

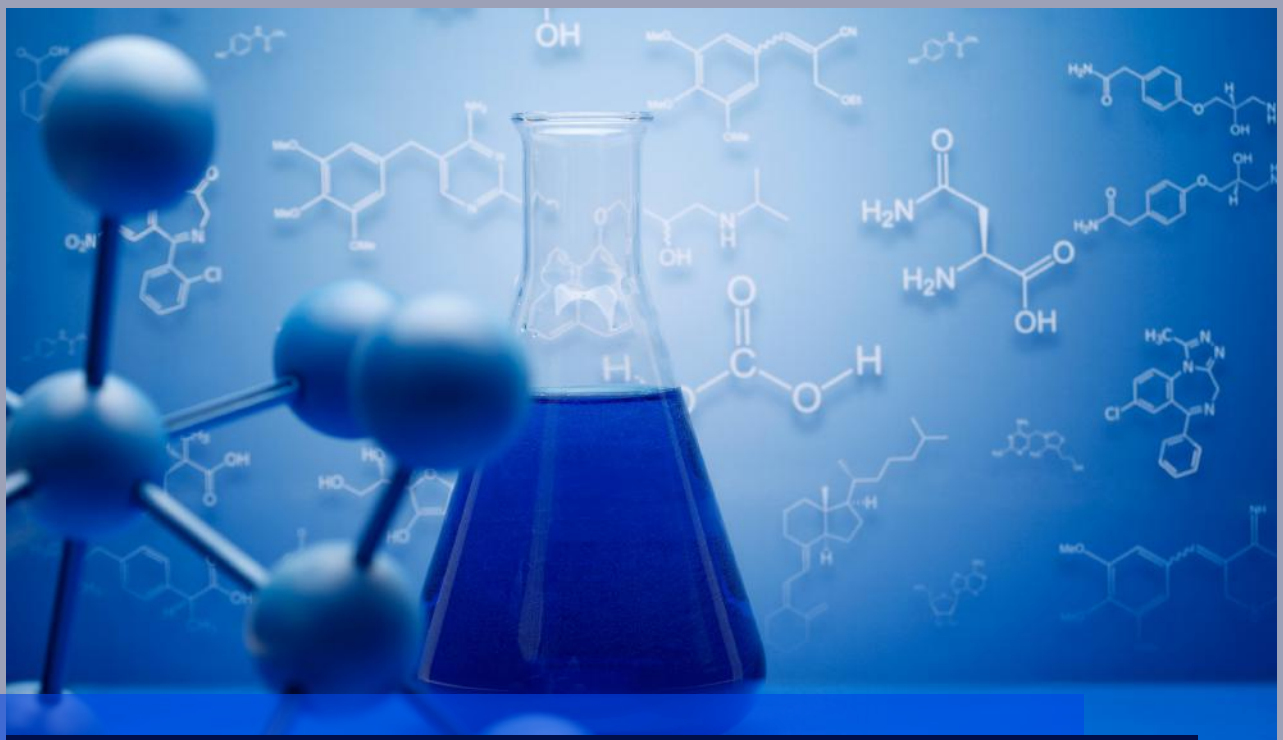
HLC Mesh

Span (mm)	Type		Load kg/m2							Max Load (kg/m2)
	Height (mm)	Mesh (mm)	150	350	500	750	1000	1500	2500	
300	60	38 x 38	/	/	/	/	/	/	/	/
	50	25 x 25 / 50 x 50	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.37	59,818
	25	25 x 100	/	/	/	0.26	0.53	0.79	1.32	32,940
	50	25 x 50	/	/	/	/	/	/	/	456,768
450	60	38 x 38	/	/	0.41	0.61	0.82	1.22	2.03	60,654
	50	25 x 25 / 50 x 50	<0.25	<0.25	0.28	0.42	0.55	0.84	1.24	37,297
	25	25 x 100	0.29	0.51	0.76	1.27	1.53	2.29	3.82	18,910
	50	25 x 50	/	/	/	/	/	/	/	212,280
600	60	38 x 38	0.33	0.41	0.62	0.92	1.12	2.86	7.14	36,344
	50	25 x 25 / 50 x 50	0.45	0.56	0.84	1.24	1.52	4.42	5.78	22,348
	25	25 x 100	0.89	1.27	2.03	3.30	4.32	6.35	/	15,860
	50	25 x 50	/	/	0.31	0.51	0.62	0.77	0.95	132,736
750	60	38 x 38	0.43	1.02	1.52	2.29	4.75	7.13	/	23,229
	50	25 x 25 / 50 x 50	0.58	1.38	2.07	3.10	6.13	8.71	/	14,284
	25	25 x 100	1.87	3.06	4.57	7.12	9.41	/	/	12,688
	50	25 x 50	/	0.74	1.02	1.53	1.63	1.78	2.02	84,912
900	60	38 x 38	0.68	1.83	2.84	4.27	6.41	9.62	/	16,122
	50	25 x 25 / 50 x 50	1.16	2.49	3.86	5.79	7.69	9.46	/	9,914
	25	25 x 100	3.87	5.84	8.89	/	/	/	/	9,111
	50	25 x 50	0.76	1.52	2.28	3.06	3.63	3.81	4.17	42,944
1200	60	38 x 38	2.37	3.30	4.71	7.07	9.43	14.15	/	9,499
	50	25 x 25 / 50 x 50	3.21	4.48	6.40	8.64	11.39	/	/	5,841
	25	25 x 100	7.62	12.71	/	/	/	/	/	5,734
	50	25 x 50	2.79	3.02	4.86	5.61	6.34	7.13	8.12	32,912

Uniform Load

HLC Mesh

Span (mm)	Type		Load kg							
	Height (mm)	Mesh (mm)	150	350	500	750	1000	1500	2500	3000
300	60	38 x 38	/	/	/	/	/	/	/	/
	50	25 x 25 / 50 x 50	/	0.34	0.45	0.70	1.00	1.36	2.22	2.67
	25	25 x 100	/	0.52	0.74	1.13	1.60	2.17	3.56	/
	50	25 x 50	/	/	/	0.38	0.54	0.73	1.20	1.45
450	60	38 x 38	/	/	/	0.37	0.49	0.64	1.01	1.25
	50	25 x 25 / 50 x 50	0.25	0.51	0.67	.06	1.50	2.03	3.34	4.01
	25	25 x 100	0.35	0.82	1.07	1.69	2.40	3.25	4.39	/
	50	25 x 50	/	0.28	.36	.57	0.81	1.10	1.81	2.17
600	60	38 x 38	/	0.37	0.48	0.76	1.08	1.46	2.43	2.92
	50	25 x 25 / 50 x 50	0.36	0.76	0.99	1.57	2.22	3.01	4.94	5.93
	25	25 x 100	0.52	1.22	1.59	2.50	3.56	4.81	7.36	/
	50	25 x 50	/	0.41	0.54	0.85	1.20	1.63	268	3.21
750	60	38 x 38	0.30	0.70	0.90	1.43	2.09	2.84	4.73	5.68
	50	25 x 25 / 50 x 50	0.62	1.45	1.86	2.95	4.33	5.85	9.12	/
	25	25 x 100	0.99	2.31	2.97	4.71	6.92	9.34	/	/
	50	25 x 50	0.34	0.78	1.01	1.60	2.34	3.17	4.94	5.93
900	60	38 x 38	0.42	1.03	1.32	2.10	3.11	4.22	7.03	8.44
	50	25 x 25 / 50 x 50	0.88	2.13	2.72	4.34	6.43	9.34	/	/
	25	25 x 100	1.40	3.40	4.35	6.93	9.23	/	/	/
	50	25 x 50	0.47	1.15	1.47	2.35	3.48	5.06	6.83	8.21
1200	60	38 x 38	0.70	1.77	2.47	3.59	5.27	7.16	11.39	/
	50	25 x 25 / 50 x 50	1.45	3.65	5.11	7.41	9.89	14.34	/	/
	25	25 x 100	2.32	5.84	8.17	11.85	/	/	/	/
	50	25 x 50	0.79	1.98	2.77	4.01	5.35	7.77	10.49	12.59



Chemical Resistance

C = Continuous exposure of the grating to the chemical environment listed at the temperature listed.
F = Frequent exposure of the grating to splashes and spills from the chemical environment listed with that environment at the temperature listed.
I = Infrequent exposure of the grating to splashes and spills from the chemical environment listed with that environment at the temperature listed and the spill immediately cleaned up or washed from grating.
N = Not recommended for the concentrations and temperatures listed.
MAX Temperature is 85 degrees Celsius for Vinyl Grating.
MAX Temperature is 70 degrees Celsius for Isophthalic grating.
MAX Temperature is 65 degrees Celsius for General polester grating.

The corrosion resistance data listed in this document 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 information to be true and accurate but no guarantee is expressed or implied as to specific performance. Testing for specific environments is recommended. Responsibility for claims arising from breach of warranty, negligence or otherwise is limited to the purchase price of the material sold by Grating FRP Australia.

Chemical Environment	Concentration %	Temperature Degrees Celsius	Vinyl Ester	Isophthalic	General Purpose
Acetic Acid	50	MAX	C	F	C
Acetone	100	23	I	I	N
Aluminum Hydroxide	ALL	MAX	C	C	C
Aluminum Chloride	ALL	MAX	C	C	C
Ammonium Bicarbonate	ALL	48	C	C	C
Ammonium Bicarbonate	15	48	C	F	F
Ammonium Hydroxide	50	48	F	F	I
Ammonium Sulfate	20	26	I	N	N
Barium Sulfate	ALL	48	C	C	F
Benzene	ALL	MAX	C	C	C
Benzoic Acid (SAT)	100	65	I	N	N
Borax (SAT)	SAT	MAX	C	F	C
Calcium Carbonate	SAT	MAX	C	F	F
Calcium Hydroxide	ALL	MAX	C	F	C
Calcium Hypochlorite	25	MAX	F	F	I
Calcium Nitrate	ALL	MAX	I	I	N
Carbon Tetrachloride	ALL	26	C	C	C
Chlorine - Dry Gas	100	MAX	I	N	F
Chlorine Water (SAT)	ALL	48	C	F	N
Chromic Acid	SAT	65	I	N	N
Citric Acid	50	MAX	C	N	C
Copper Chloride	ALL	MAX	I	C	C
Copper Cyanide	ALL	60	I	C	I
Copper Nitrate	ALL	MAX	C	I	C
Crude Oil (Sweer or Sour)	ALL	MAX	C	C	C
Diesel Fuel	ALL	37	F	C	C
Ethanol	10	48	C	F	F
Ethanol	50	48	C	I	I
Ethanol Glycol	ALL	65	C	F	FI
Ferric Chloride	100	MAX	C	C	C
Ferric Nitrate	ALL	MAX	C	C	C
Ferrous Chloride	ALL	MAX	C	C	C
Fluorosilicic Acid	10	23	F	F	I
Formaldehyde (0-50%)	50	48	F	I	I
Gasoline	ALL	48	C	F	F
Glucose	ALL	48	C	C	C
Glycerin	100	MAX	C	F	F
Hydrobromic Acid	50	MAX	I	I	N
Hydrobromic Acid	10	MAX	F	F	F

Chemical Environment	Concentration %	Temperature Degrees Celsius	Vinyl Ester	Isophthalic	General Purpose
Hydrobromic Acid	37	MAX	I	I	I
Hydrogen Peroxide	30	26	F	N	N
Lactic Acid	100	MAX	C	C	C
Lithium Chloride (SAT)	SAT	MAX	N	N	N
Magnesium Chloride	ALL	MAX	C	C	C
Magnesium Nitrate	ALL	MAX	C	C	C
Magnesium Sulphate	ALL	MAX	C	C	C
Mercuric Chloride	ALL	MAX	C	C	C
Mercurous Chloride	ALL	MAX	C	F	F
Nickle Chloride	ALL	MAX	C	C	C
Nickle Sulphate	ALL	MAX	C	C	C
Nitric Acid	20	48	I	I	I
Oxalic Acid	ALL	65	C	F	F
Perchloric Acid	30	32	I	I	I
Phosphoric Acid	80	MAX	C	C	F
Potassium Chloride	ALL	MAX	C	C	C
Potassium Dichromate	ALL	MAX	C	C	C
Potassium Nitrate	ALL	MAX	C	C	C
Potassium Sulfate	ALL	MAX	C	C	C
Propylene Glycol	ALL	MAX	C	F	F
Sodium Acetate	ALL	MAX	C	C	C
Sodium Bisulfate	ALL	26	C	I	I
Sodium Bromide	ALL	26	C	C	C
Sodium Cyanide	ALL	26	F	I	I
Sodium Hydroxide	10	MAX	I	N	N
Sodium Hydroxide	50	MAX	N	N	N
Sodium Nitrate	ALL	MAX	C	C	C
Sodium Sulfate	ALL	MAX	C	C	C
Sulfuric Acid	10	MAX	C	F	F
Sulfuric Acid	25	MAX	F	F	F
Sulfuric Acid	75	37	I	I	I
Tartaric Acid	ALL	MAX	C	F	F
Vinegar	ALL	MAX	C	F	F
Water (Distilled)	ALL	MAX	C	C	C
Zinc Nitrate	100	MAX	C	C	C
Zinc Sulfate	100	MAX	C	C	C

Notes

Notes

Contact us for further enquiries

gratingfrpaustralia.com.au

WA, NT & SA
(08) 9584 2500

wa-sales@gratingfrpaustralia.com.au

NSW, QLD, VIC, TAS & ACT
(02) 4244 1008

nsw-sales@gratingfrpaustralia.com.au