

2025

Capability Statement

Grating FRP Australia's projects span the country, bringing beauty and versatility to industrious projects; changing the ways we use industrial fiberglass.



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Company Overview	3-5
Project Engagement Flow	6
FRP Products	7-9
Industrial Opportunities	10-12
Project Capacities	13
Competitor Analysis	14
Quality Assurance & Certification	15 - 21
Sustainability Initiatives	22
Frequently Asked Questions	23 - 24



Company Overview



Grating FRP Australia is a division of Scavenger Supplies who have been an Australian owned and trusted supplier of high performance industrial products for more than two decades.

We are the only FRP supplier in Australia with ISO 9001 quality assurance and OH&S 45001 certified practices and BAL-40 certification.

We provide Fibre Reinforced Polymer (FRP) products that meet the requirements of industrial, marine, civil and architectural applications. Our FRP range offers lightweight, corrosion resistant, high strength and low-maintenance solutions.



Setting the benchmark in Australia for FRP, with certified quality, robust safety systems, and BAL-40 compliance.



ISO 9001:2015 Certified Quality Management System



BAL-40 Certified Bushfire compliant

Our national distribution network provides specialist technical expertise and in-house fabrication. We assist with product selection through to installation and ensure compliance, performance and durability in diverse environments.



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.

Mission

To provide ethical, sustainable and innovative fiber reinforced polymer solutions to industrious consumers.

Vision

Our future impact resonates through sustainable solutions that redefine industry standards and inspire positive change.

We are the only FRP supplier with ISO 9001, ISO 45001 & 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 a certified 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.



Company Overview

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.



If you're curious to know what working on a project with us looks like, we've covered the basic steps into a timeline for you. We like to keep it simple, clear and perfect!

Project Initiation

During project initiation, we conduct thorough discussions with the client to understand their specific needs and objectives. This phase involves defining project scope, setting clear goals, and establishing communication channels to ensure alignment from the outset.

Project Planning

In the planning phase, our team meticulously outlines project milestones, timelines, and resource requirements. We develop a detailed strategy that incorporates risk assessment, budget considerations, and regulatory compliance, setting the foundation for a structured and efficient execution.

Task Execution

Task execution begins with the deployment of skilled technicians and engineers who carry out installations and other project tasks according to the established plan. We prioritize quality control and adherence to safety standards throughout this phase to ensure consistent delivery of high-quality results.

Monitoring & Control

Throughout the project lifecycle, we maintain rigorous monitoring and control mechanisms to track progress against milestones and manage any deviations promptly. Regular assessments and status updates enable us to proactively address challenges and optimize performance to meet client expectations.

Closure and Evaluation

Upon project completion, we conduct comprehensive inspections and tests to ensure all deliverables meet regulatory standards and client specifications. We finalize documentation, conduct client walkthroughs, and obtain feedback to evaluate project success and identify areas for improvement, ensuring continuous enhancement of our services.



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.

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 dyeing 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.



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

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

Non-conductive

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

Corrosion resistance

- o 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

- o 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

- o 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

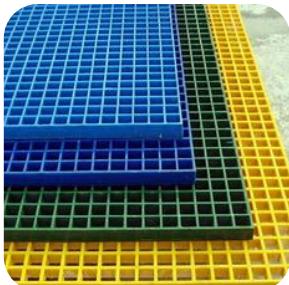
- o Corrosion resistance results in very low maintenance of FRP products, which translates to lower future maintenance costs. It also means that FRP products will last longer than traditional materials. These add up to lower life cycle costs for FRP.

Temperature and Harsh Environment Resistance

- o 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.



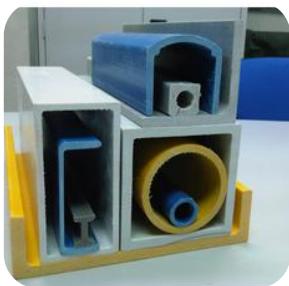
FRP Moulded Grating



Introducing our FRP Moulded Grating, a versatile and high-performance solution for a wide range of industrial and commercial applications. Crafted using advanced pultrusion techniques, our FRP Moulded Grating offers unparalleled durability, corrosion resistance, and strength-to-weight ratio compared to traditional materials like steel or wood. Its lightweight design makes installation a breeze while ensuring long-term reliability and low maintenance requirements.

With a variety of panel sizes, thicknesses, and surface patterns available, our FRP Moulded Grating can be customized to suit the unique requirements of any project, providing safe and secure footing in even the harshest environments. Whether it's for walkways, platforms, trench covers, or other structural applications, trust our FRP Moulded Grating to deliver superior performance and longevity, backed by our commitment to quality and innovation.

FRP Pultruded Structural Profiles



Discover the strength and versatility of our FRP Pultruded Structural Profiles, engineered to excel in demanding industrial and infrastructure applications. Crafted with precision using advanced pultrusion technology, our FRP profiles offer exceptional strength, corrosion resistance, and durability, surpassing traditional materials like steel or aluminum.

From beams and channels to angles and tubes, our FRP profiles are available in a variety of shapes and sizes to suit a wide range of structural requirements. Their lightweight design makes installation efficient and cost-effective, while their non-conductive properties make them ideal for use in electrical and telecommunications projects.

Whether it's supporting heavy loads in industrial settings or providing structural reinforcement in corrosive environments, our FRP Pultruded Structural Profiles deliver reliability, longevity, and performance, backed by our commitment to quality and innovation.

FRP Pultruded Grating



Introducing our FRP Pultruded Grating, a durable and versatile solution designed to meet the most demanding industrial and commercial requirements. Engineered using advanced pultrusion technology, our FRP Pultruded Grating offers unparalleled strength, corrosion resistance, and durability compared to traditional materials like steel or wood. Its lightweight construction facilitates easy handling and installation, while its robust design ensures long-term reliability and low maintenance needs.

Available in a variety of sizes, thicknesses, and surface patterns, our FRP Pultruded Grating can be tailored to suit a wide range of applications, including walkways, platforms, ramps, and trench covers. Count on our FRP Pultruded Grating to excel in corrosive environments, handle heavy loads, and endure high-traffic areas, all while demonstrating superior performance and longevity, supported by our dedication to quality and innovation.

Learn how we can be of assistance to your next structural projects.

Grating FRP Australia holds significant potential for industrial applications, offering durable and corrosion-resistant FRP solutions.

Industry	Opportunity
Mining & Minerals	<p>We offer a comprehensive range of products and services to maximize production line efficiency and ensure workplace safety compliance. From designing access structures to spill kits, our experienced teams provide expert mining solutions.</p> <p>Our expertise lies in delivering custom-designed FRP structural access components, spill systems, and equipment enclosures engineered for the rigors of mining operations. With lightweight, durable FRP materials, we enhance safety, efficiency, and sustainability in underground and surface mining environments.</p> <p>Partnering with us means accessing premium FRP solutions that optimize operational performance and reduce maintenance costs, empowering mining companies to operate with confidence and productivity.</p>
Oil & Gas	<p>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.</p> <p>With our expertise in custom design and engineering, we deliver solutions optimized for oil and gas production, transportation, and storage. Our lightweight yet durable FRP materials offer superior performance, reducing maintenance costs and downtime. Partnering with us ensures reliable, cost-effective solutions that prioritize safety, efficiency, and environmental compliance in oil and gas operations.</p>
Civil Marine	<p>Our dedicated local team offers specialized engineering knowledge in both sub-sea and above-sea infrastructure, marine vehicles, and fisheries support.</p> <p>Our product range includes corrosion-resistant FRP piles, docks, bridges, and seawalls, designed for durability in harsh marine environments.</p> <p>With expertise in custom design and engineering, we provide optimized solutions for coastal protection, port facilities, marinas, and waterfront developments. Our lightweight yet robust FRP materials offer superior performance, reducing costs and environmental impact.</p> <p>Partnering with us means investing in reliable, cost-effective solutions that prioritize safety, sustainability, and resilience in civil marine projects, promoting maritime infrastructure development.</p>



Learn how we can be of assistance to your next structural projects.

Grating FRP Australia holds significant potential for industrial applications, offering durable and corrosion-resistant FRP solutions.

Industry	Opportunity
Architectural	<p>We provide precise site structure and engineer design options, guiding you from start to finish with management services and development controls. Our expertise includes custom-designed FRP panels, cladding systems, and decorative elements, blending aesthetics and functionality. From sleek façade panels to intricate interior finishes, our lightweight FRP materials bring architects' visions to life while meeting performance standards.</p> <p>We offer environmentally friendly products and complete installations, focusing on quality craftsmanship and design flexibility to enhance building aesthetics, durability, and energy efficiency. Partner with us for premium FRP solutions that inspire creativity, elevate architectural designs, and promote sustainable building practices.</p>
Local & State Government	<p>We offer local and state governments various advantages, from infrastructure solutions to customized design and engineering support, trail and pathway solutions, outdoor furniture, and environmental sustainability solutions.</p> <p>Our portfolio includes a range of FRP materials tailored for infrastructure such as trails, bridges, boardwalks, and more. Whether it's enhancing outdoor experiences or developing sustainable solutions for eco-tourism, our lightweight and corrosion-resistant FRP products offer long-lasting performance and minimal maintenance. Partnering with us means investing in amenities that prioritize safety, accessibility, and environmental sustainability, enriching communities for generations.</p>
Food & Beverage	<p>We offer customizable FRP structural components for facility construction and equipment support, enhancing operational efficiency and maintaining hygiene standards. Partnering with us means investing in reliable, long-lasting solutions that meet the high standards of the food and beverage industry.</p> <p>Our lightweight FRP materials provide durability and corrosion resistance for processing equipment enclosures, structural components, and spill management in food and beverage facilities.</p> <p>With a focus on quality craftsmanship and innovative design, we contribute to the safety, integrity, and sustainability of food production processes. Partner with us for premium FRP solutions that prioritize hygiene, productivity, and regulatory compliance, supporting the success of your business.</p>



Learn how we can be of assistance to your next structural projects.

Grating FRP Australia holds significant potential for industrial applications, offering durable and corrosion-resistant FRP solutions.

Industry	Opportunity
Utilities & Rail	<p>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.</p> <p>With our expertise, we contribute to the efficiency, safety, and sustainability of utilities and rail networks, delivering cost-effective solutions that withstand the demands of these critical industries.</p> <p>We prioritize quality craftsmanship and innovative design. Partnering with us means accessing premium FRP solutions that prioritize safety, efficiency, and longevity, supporting the resilience and reliability of utilities and rail systems.</p>
Water & Waste Management	<p>Our customizable engineering support enables the development of efficient and durable solutions for water treatment plants, distribution networks, and waste management facilities.</p> <p>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.</p> <p>With our lightweight and durable FRP materials, we contribute to the longevity, reliability, and sustainability of water and waste management systems, delivering cost-effective solutions that prioritize environmental protection and public health.</p>
Recreational	<p>We specialize in crafting high-performance FRP solutions tailored for recreational enthusiasts, including boating, 4WDing, and hobbyist applications.</p> <p>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.</p> <p>Partnering with us means accessing premium FRP solutions that enhance performance, safety, and enjoyment in recreational activities, empowering enthusiasts to explore with confidence and peace of mind.</p>



Project Capacities



By leveraging these expanded project capacities, Grating FRP Australia is well-equipped to tackle projects of any size, complexity, or industry vertical, delivering innovative, high-quality FRP solutions that exceed client expectations and drive success.

Capacity	Delivery
Custom Design & Engineering	Our team of experienced engineers and designers can develop custom FRP solutions tailored to the unique specifications of each project, ensuring optimal performance and functionality.
Project Management	We offer comprehensive project management services, overseeing all aspects of the project from initial consultation and design to manufacturing, installation, and final inspection, ensuring a smooth and successful project execution.
Quality Assurance	At Grating FRP Australia, quality is our top priority. We have robust quality assurance processes in place to ensure that all our products meet the highest standards of quality, performance, and safety.
Sustainability Commitment	We are committed to sustainability and environmental responsibility in all our projects. Our FRP products are manufactured using eco-friendly materials and processes, minimizing environmental impact while maximizing performance and longevity.
Customer Support	Our dedicated customer support team is available to provide assistance and guidance throughout the project lifecycle, addressing any questions or concerns and ensuring client satisfaction every step of the way.
Project Scalability	Whether the project is large or small in scale, Grating FRP Australia has the capacity to adapt and scale our operations to meet the project's requirements. From single-site installations to multi-location rollouts, our flexible approach ensures that we can accommodate projects of varying sizes and complexities.
Manufacturing Excellence	With state-of-the-art facilities and advanced manufacturing processes, we have the capacity to produce high-quality FRP products efficiently and cost-effectively, meeting project timelines and delivery schedules.
Regulatory Compliance	Grating FRP Australia maintains a thorough understanding of industry regulations, standards, and codes. Our team ensures that all our products and solutions adhere to relevant safety, quality, and environmental regulations, providing clients with peace of mind and assurance of compliance throughout the project lifecycle.
Installation Expertise	Our skilled technicians and installation teams are equipped to handle the installation of FRP products on-site, ensuring proper fit, alignment, and functionality for seamless integration into the project.



Offer	Difference
Comprehensive Solutions	Unlike many competitors who may specialize in specific FRP products or applications, we provide a comprehensive range of FRP solutions tailored to meet various industry needs. From grating and structural profiles to custom-designed components and installation services, we offer end-to-end solutions that streamline project execution and deliver exceptional value.
In-house Expertise	We have a team of experienced engineers, designers, and technicians in-house, allowing us to control every aspect of the product development process. This in-house expertise enables us to offer customized solutions, rapid prototyping, and efficient project management, ensuring superior quality and timely delivery.
Flexibility and Agility	Our lean organizational structure and flexible manufacturing capabilities allow us to adapt quickly to changing market demands and client requirements. Unlike larger competitors burdened by bureaucracy and rigid processes, we can respond promptly to customer inquiries, accommodate last-minute changes, and deliver tailored solutions with minimal lead times.
Focus on Innovation	Innovation is at the core of our business philosophy. We invest heavily in research and development to drive continuous improvement and stay ahead of industry trends. Our commitment to innovation enables us to develop groundbreaking FRP solutions, such as advanced materials, novel manufacturing techniques, and patented designs, giving us a competitive edge in the marketplace.
Customer Centric Approach	We prioritize customer satisfaction and strive to build long-term partnerships based on trust, transparency, and mutual respect. Unlike some competitors who prioritize short-term profits over customer relationships, we take the time to understand our clients' needs, offer personalized solutions, and provide ongoing support and assistance throughout the project lifecycle.
Commitment to Sustainability	Environmental sustainability is a core value that sets us apart from competitors. We are dedicated to minimizing our environmental footprint by using eco-friendly materials, reducing waste, and implementing sustainable practices throughout our operations. By offering environmentally responsible FRP solutions, we appeal to environmentally conscious clients and differentiate ourselves as a socially responsible supplier.
Manufacturing Excellence	With state-of-the-art facilities and advanced manufacturing processes, we have the capacity to produce high-quality FRP products efficiently and cost-effectively, meeting project timelines and delivery schedules.



We adhere to stringent quality control processes throughout every stage of the manufacturing process to ensure that our FRP products meet the highest standards of quality, performance, and durability.

Material Selection:

We carefully select the highest quality raw materials for our FRP products, ensuring they meet our exacting standards for strength, durability, and performance. Our procurement team conducts thorough inspections and tests on incoming materials to verify their quality and suitability for use in our manufacturing processes.

Manufacturing Processes:

We utilize state-of-the-art manufacturing facilities and advanced production techniques to fabricate our FRP products. Our production lines are equipped with precision machinery and automated systems to ensure consistency and accuracy in product dimensions, tolerances, and surface finish.

Quality Control Inspections:

Throughout the manufacturing process, our quality control team conducts regular inspections and tests to monitor product quality and identify any deviations from specifications. These inspections encompass visual checks, dimensional measurements, material testing, and performance evaluations to verify compliance with internal quality standards and industry regulations.

Certifications and Compliance:

We hold certifications and accreditations from recognized regulatory bodies and industry organizations, attesting to the quality and safety of our FRP products. Our commitment to compliance with relevant standards and regulations ensures that our products meet or exceed regulatory requirements and industry best practices. Our certifications include BAL40, ISO 45001 & ISO 9001.

Continuous Improvement:

We foster a culture of continuous improvement within our organization, encouraging feedback, innovation, and process optimization to enhance product quality and customer satisfaction. Our quality assurance team regularly reviews and evaluates our quality management system, implementing corrective actions and preventive measures to address any identified issues and drive ongoing improvement.

Customer Satisfaction:

Ultimately, our commitment to quality assurance is driven by our desire to exceed customer expectations and deliver superior products and services. We prioritize customer satisfaction and strive to build long-term relationships based on trust, reliability, and excellence in quality.





In industries where fire safety is a top priority, selecting the right materials is crucial. At Grating FRP Australia, we are proud to be the only supplier in Australia with BAL40 certification for our FRP Grating Mini – Micro Mesh, making us the industry leader in fire-resistant grating solutions.

The Importance of Fire-Resistant Materials

Fires pose a significant risk in construction, industrial sites, and bushfire-prone areas. Traditional materials like timber and steel have their limitations—wood is highly flammable, and steel can weaken under extreme heat. Fibreglass Reinforced Polymer (FRP) Grating offers a superior alternative, combining strength, durability, and fire resistance.

Why Fire-Resistant Materials Matter

The increasing frequency of wildfires and industrial fires highlights the need for materials that can withstand high temperatures and ember attacks. Fire-resistant materials contribute to:

- Enhanced safety for personnel and property
- Lower maintenance costs due to increased durability
- Compliance with national safety regulations
- Reduced insurance costs as fire-resistant materials are less prone to damage
- Longer lifespan reducing the need for frequent replacements
- Improved sustainability as durable materials contribute to environmental conservation
- Increased structural integrity in the event of fire-related incidents

Understanding BAL40 Certification

BAL40 (Bushfire Attack Level 40) is a stringent certification under AS 1530.8.1-2007, testing materials for their ability to withstand high heat, ember attacks, and direct flame exposure.

What Does BAL40 Certification Mean for FRP Grating?

Our FRP Grating Mini – Micro Mesh underwent rigorous testing by Ignis Labs Pty Ltd, where it was exposed to:

- Radiant heat flux of up to 40 kW/m²
- Sustained flaming and ember attack conditions
- Bushfire debris and direct flame exposure
- Structural integrity testing under fire conditions
- Heat-induced deformation analysis
- Temperature threshold testing for prolonged exposure



Key Test Results and Performance Indicators

The test conducted at Ignis Labs included a range of performance metrics, demonstrating that our FRP grating meets or exceeds the required safety standards.

- No sustained flaming on the non-fire side
- No through-gaps greater than 3mm
- No excessive flame spread beyond 500mm
- Heat-resistant up to required limits
- Stable under extreme thermal conditions for up to 60 minutes
- Minimal smoke emission and toxic fume generation
- Retained mechanical strength post-test
- Meets all AS 1530.8.1-2007 compliance benchmark

Advanced Fire Safety Features of FRP Grating

To further enhance its fire-resistant capabilities, FRP grating includes:

- Self-extinguishing properties: Unlike traditional materials, FRP does not continue to burn once the ignition source is removed.
- Low thermal conductivity: Reduces heat transfer, minimizing structural damage.
- Non-combustible resin formulations: Specifically designed for fire-prone environments.
- Smoke suppression technology: Limits toxic fumes, improving safety for workers and residents.
- High melting point: Ensures structural integrity even under prolonged fire exposure.

The Durability Advantage of FRP Grating

Beyond fire resistance, FRP grating is known for its unmatched durability. Unlike traditional metal grating, FRP is:

- Corrosion-resistant: Ideal for coastal and industrial environments where moisture, chemicals, and salt can degrade traditional materials.
- Lightweight: FRP grating weighs significantly less than steel, making transportation, handling, and installation much easier and cost-effective.
- Low maintenance: No rusting, no repainting, and no costly replacements needed due to corrosion or environmental degradation.
- Slip-resistant: Designed for safety, FRP grating provides excellent traction, reducing the risk of slips and falls in industrial and commercial settings.
- Non-conductive: Unlike metal grating, FRP does not conduct electricity, making it ideal for electrical substations, railways, and other sensitive environments.
- UV-resistant: Can withstand prolonged exposure to sunlight without degrading.
- Chemical-resistant: Performs exceptionally well in environments with exposure to aggressive chemicals.

Extensive Applications of FRP Grating

Due to its superior properties, FRP grating is widely used in industries and environments that demand high fire resistance and durability:

- Bushfire-Prone Areas: Perfect for decking, boardwalks, and outdoor infrastructure in regions at risk of wildfires.
- Mining & Heavy Industry: Ideal for platforms, walkways, and drainage covers in high-risk fire environments.
- Marine & Coastal Facilities: Resists saltwater corrosion and fire exposure in harsh coastal conditions.
- Transportation & Railways: Used for non-slip surfaces in stations and maintenance areas.
- Power & Utilities: Suitable for electrical substations due to its non-conductive nature.
- Chemical & Manufacturing Plants: Excellent resistance to chemical spills and extreme heat.
- Aerospace & Defense: Used in fire-sensitive areas due to its lightweight and high-strength properties.
- Public Infrastructure: Walkways, bridges, and access ramps benefit from FRP's durability and fire safety.
- Oil & Gas Industry: Fire-resistant grating for offshore platforms and refinery walkways.





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

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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/m ²	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/m ² 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/m ²



Darren Laker
Test Supervisor



Darren Laker



Jessica Ying
Technical Lead

Version: IGNL-OF-060-Issue 01 Revision 00
Disclaimer This report details methods of construction, the test conditions and the results obtained when the specific element of construction described herein was tested in accordance with test method of AS 1530.8.1. Any significant variation with respect to size, constructional details, loads, stresses, edge or end conditions, other than those allowed under the field of direct application in the relevant test method, is not covered by this report. The results of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions. The results only relate to the behaviour of the specimen of the element of the construction under the particular conditions of the test; they are not intended to be the sole criteria for assessing the potential fire performance of the element in use nor do they necessarily reflect the actual behaviour in fires. Because of the nature of fire hazard property testing and the consequent difficulty in quantifying the uncertainty of measurement of fire hazard properties, it is not possible to provide a stated degree of accuracy of the result.
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Page 1 of 1



ASHBURTON ASSURANCE AUSTRALASIA

Hereby grants this

QUALITY MANAGEMENT SYSTEM CERTIFICATION

REGISTRATION NO : 610006/Q/3

To :

ScavengerSupplies Pty Ltd

8 Panton Rd, 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: 09/06/2025 to 08/06/2028

Certificate Approved by Samantha Robinson, General Manager



Issue Date: 09/06/2025

Initial Certification Date: 28/06/2021

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 the validity of this certificate please visit www.jasanz.org/register

ASHBURTON ASSURANCE AUSTRALASIA

LEVEL 1, 100 HAVELOCK STREET, WEST PERTH, WA



ASHBURTON ASSURANCE AUSTRALASIA

Hereby grants this

SAFETY MANAGEMENT SYSTEM CERTIFICATION

REGISTRATION NO : 610006/W/3

To :

ScavengerSupplies PtyLtd

8 Panton Rd, 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: : 09/06/2025 to 08/06/2028

Certificate Approved by Samantha Robinson, General Manager



Issue Date: 09/06/2025

Initial Certification Date: 28/06/2021

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

To verify the validity of this certificate please visit www.jasanz.org/register

ASHBURTON ASSURANCE AUSTRALASIA

LEVEL 1, 100 HAVELOCK STREET, WEST PERTH, WA



At Scavenger Supplies PTY LTD, we are committed to delivering excellence in quality, safety, and operational efficiency. We are proud to announce that we have successfully obtained the **Ashburton Assurance Australasia QMS ISO 9001:2015 and OH&S ISO 45001:2018 certifications**. These certifications mark a significant milestone in our journey to maintaining the highest industry standards while ensuring a safe and efficient workplace.

Understanding the Certifications

ISO 9001:2015 - Quality Management System (QMS)

ISO 9001:2015 is an internationally recognized standard that focuses on quality management systems (QMS). It provides a framework for businesses to ensure consistent product and service quality while continuously improving processes.

ISO 45001:2018 - Occupational Health & Safety (OH&S) Management System

ISO 45001:2018 is the international standard for occupational health and safety, designed to prevent work-related injuries and illnesses while fostering a safe and healthy workplace.

What This Means for Our Customers:

- Enhanced customer satisfaction through a structured quality management approach.
- Streamlined operations that minimize errors and inefficiencies.
- Commitment to continual improvement and regulatory compliance.
- Increased trust and credibility within the industry.

What This Means for Our Team and Partners:

- Stronger risk management and hazard prevention practices.
- A proactive approach to workplace health and safety.
- Improved legal compliance with occupational safety regulations.
- Enhanced safety culture across all levels of the company.

How We Obtained These Certifications

Achieving these certifications required a comprehensive review and refinement of our internal processes, ensuring alignment with global best practices. The journey included:

1. **Process Assessment & Gap Analysis:** Identifying areas for improvement and aligning them with ISO standards.
2. **Employee Training & Engagement:** Ensuring all team members understood and adhered to quality and safety protocols.
3. **Implementation of Best Practices:** Standardizing procedures across departments to enhance efficiency and safety.
4. **Internal Audits & Continuous Improvement:** Conducting rigorous internal audits to maintain compliance.
5. **Third-Party Certification Audit:** Undergoing assessment by Ashburton Assurance Australasia, an accredited certification body.

The Importance of ISO Certification

For Scavenger Supplies PTY LTD, obtaining ISO 9001:2015 and ISO 45001:2018 is not just about compliance; it is about building a resilient, customer-focused, and safety-driven organization. The benefits include:

- **Higher Product & Service Quality:** Customers can trust that they are receiving superior products and services.
- **Operational Efficiency:** Improved processes lead to reduced costs and faster delivery times.
- **Workplace Safety & Employee Well-Being:** Prioritizing health and safety ensures a motivated and productive workforce.
- **Regulatory Compliance & Industry Recognition:** Demonstrates our commitment to global standards and best practices.
- **Competitive Advantage:** Strengthens our reputation as an industry leader in quality and safety.

Moving Forward

At Scavenger Supplies PTY LTD, these certifications represent just the beginning. We are committed to continuous improvement, innovation, and upholding the highest standards in quality management and workplace safety. Our customers, employees, and partners can be assured that every product, service, and operational process is backed by internationally recognized best practices.



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 45001:2018 & 9001:2015, BAL40, 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.



Frequently Asked Questions



What are the benefits of FRP products?

FRP (Fiber-Reinforced Polymer) products offer numerous benefits, including exceptional durability, corrosion resistance, non-conductivity, lightweight design, and versatility. They provide cost-effective solutions for various industries, reduce maintenance requirements, enhance safety, and contribute to environmental sustainability due to their recyclability. Overall, FRP products offer superior performance and longevity compared to traditional materials like steel, aluminum, timber or concrete.

Does FRP require sealing?

FRP (Fiber-Reinforced Polymer) materials typically do not require sealing in the same way that materials like wood or concrete might. FRP is inherently resistant to moisture, chemicals, and corrosion, which means it does not need sealing to protect it from these elements. However, in certain applications where additional protection or aesthetics are desired, such as in architectural or marine applications, sealing or coating may be applied as an extra layer of protection or to achieve a specific finish.

Re-sealing will be required if you ever cut the product in future, after installation, however.

To select the right grating for your project:

1. Identify the application (e.g., flooring, walkways).
2. Determine load requirements and corrosion resistance.
3. Prioritize slip resistance, chemical resistance, fire resistance, and UV resistance.
4. Consider aesthetics and installation requirements.
5. Ensure regulatory compliance.

By considering these factors, you can choose the most suitable grating for your needs. If you're unsure, we can help you!

Feel free to call or email us.

Yes, Grating FRP Australia welcomes custom orders.

We understand that every project has unique requirements, and we are committed to providing tailored solutions to meet your specific needs. Our experienced team is here to work closely with you to design and manufacture custom FRP grating products that align with your project requirements and specifications.

Contact us today to discuss your custom grating needs and how we can assist you.

Do you take custom orders?

International Presence

Grating FRP Australia has a global presence, recognized for quality and innovation. Through strategic partnerships and collaborations, we deliver FRP solutions worldwide.



Yes, we can help!

I need urgent product/ project delivery!

At Grating FRP Australia, we understand the importance of timely project delivery. Our team is dedicated to meeting urgent deadlines and ensuring that your products are delivered promptly.

Please contact us immediately with your project requirements and delivery timeline, and we will do our utmost to expedite the process and accommodate your urgent needs.

Your satisfaction is our priority, and we are committed to providing efficient and reliable service to meet your project deadlines.

How long will it take to get a quote?

At Grating FRP Australia, we understand the importance of prompt service. We typically provide quotes as soon as possible, usually within one business day of receiving your request.

Our team is committed to expediting the quote process to ensure that you receive the information you need promptly. If you have any urgent inquiries or require expedited service, please let us know, and we will prioritize your request accordingly.

FRP (Fiber-Reinforced Polymer) offers advantages over steel and other industrial structural materials:

1. Corrosion Resistance: Resists corrosion, ideal for harsh environments.
2. Lightweight: Easier to handle and transport, reducing costs.
3. High Strength-to-Weight Ratio: Strong but lighter than steel and other typical industrial materials.
4. Non-Conductive: Safe for electrical applications.
5. Design Flexibility: Moldable into complex shapes.
6. Durability: Resistant to impact, abrasion, and fatigue.
7. Ease of Fabrication: Simple to work with, reducing manufacturing costs.
8. Environmental Benefits: Recyclable, reducing environmental impact.

Why use FRP instead of steel?

No, FRP (Fiber-Reinforced Polymer) typically requires minimal maintenance due to its corrosion resistance, durability, longevity, ease of cleaning, low-friction surfaces, and UV resistance. These qualities collectively contribute to its attractiveness as a low-maintenance material across various applications.

Does FRP require much maintenance and what is the lifespan?

The lifespan of FRP (Fiber-Reinforced Polymer) products varies based on factors like application, environment, materials, and maintenance. Typically, FRP is durable, with custom warranties ranging from 10 to 30+ years. Proper care, maintenance, and handling can extend its lifespan, often surpassing traditional materials.





Contact us for further enquiries

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