



DM^{SAFE}™

INDUSTRIAL APPLICATION

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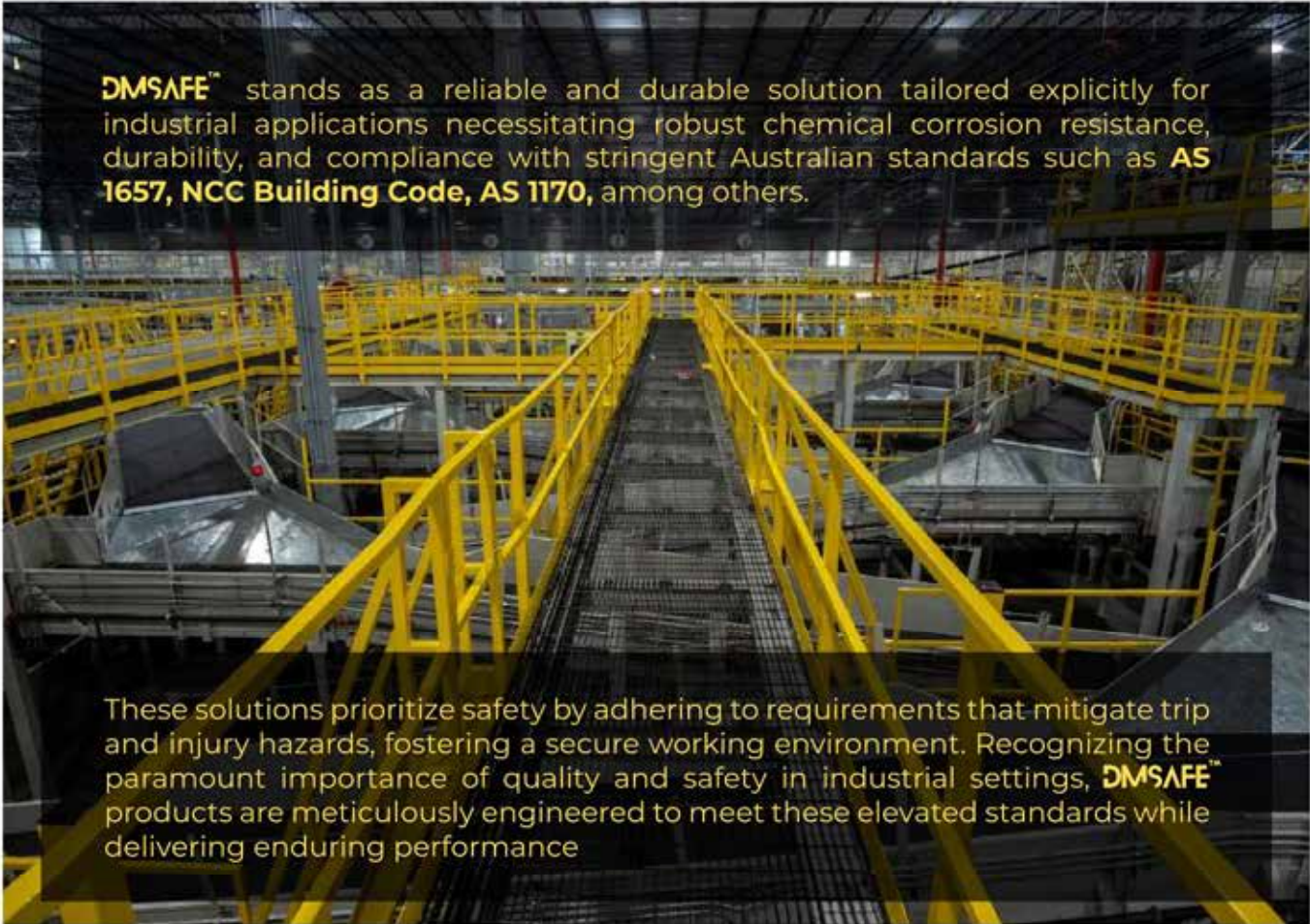
SOLUTION OVERVIEW

In addressing the challenges encountered by industries globally concerning secure access and navigation within elevated areas, confined spaces, or environments susceptible to corrosion, DM Composites™ has developed **DMSAFE™**.

Composed of FRP composites, this innovative solution offers durability, lightweight characteristics, non-conductivity, and resistance to corrosion for **industrial applications**. DM Composites' Guardrails, Gratings, and Ladders present versatile solutions that effectively tackle diverse access issues across various environments.

To support a great variety of large-scale projects, our proficient technical team, leveraging our extensive distribution network spanning across the whole Australia, is poised to provide engineering and design assistance. With a commitment to quality and rigorous testing, our expertise extends to challenging applications such as industrial process plants, mining operations, and marine and coastal environments.

Drawing from a rich history of installations, we are well-equipped to guide you in selecting appropriate resin systems and products, utilizing our **DMSAFE™** engineered solutions for applications like Access Platforms, Bund Floors, Crossovers, Mobile Working Platforms, and more.



DMSAFE™ stands as a reliable and durable solution tailored explicitly for industrial applications necessitating robust chemical corrosion resistance, durability, and compliance with stringent Australian standards such as **AS 1657, NCC Building Code, AS 1170**, among others.

These solutions prioritize safety by adhering to requirements that mitigate trip and injury hazards, fostering a secure working environment. Recognizing the paramount importance of quality and safety in industrial settings, **DMSAFE™** products are meticulously engineered to meet these elevated standards while delivering enduring performance.

WALKWAYS

| WALKWAYS

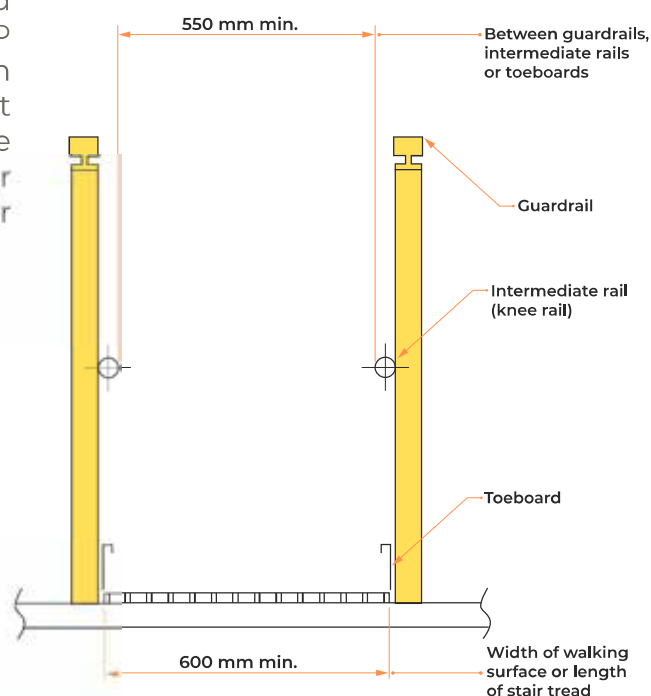
FRP Walkways by **DMSAFE™** offer a reliable and secure option for foot traffic in industrial settings. These walkways are resistant to slipping, non-conductive, and non-corrosive environments, prioritizing the safety of your personnel. With various sizes and configurations available, we cater to your unique specifications.

Our FRP walkways are well-suited for diverse industries, including oil and gas, chemical, and wastewater treatment plants. Engineered to endure tough conditions, they resist corrosion and UV radiation. Designed with a non-slip surface, our walkways enhance safety and mitigate the risk of accidents.



In addition, our FRP walkways are lightweight for easy installation and transportation. They demand minimal maintenance, ensuring a prolonged lifespan and a cost-effective solution for pedestrian access requirements. Our team of experts collaborates with you to create a customized walkway system, whether it's a straight forward linear path or a complex curved system, aligning with your specific needs.

We leverage cutting-edge engineering and drafting software to develop 3D models of FRP walkways, accompanied by thorough installation methodologies. This guarantees efficient installation, reducing potential downtime. On-site support and training are provided to ensure your team can maintain and operate the walkways for optimal safety and durability.

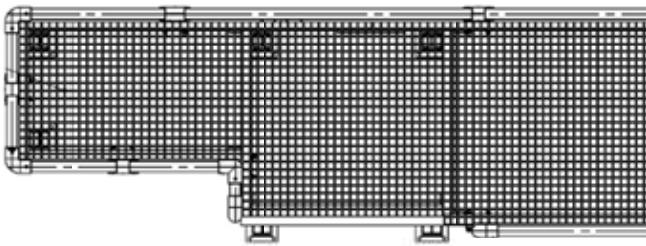


PLATFORMS

FRP Work Platforms by **DMSAFE™** are crafted to establish a safe and protected working environment for your workforce. With their lightweight, non-conductive, and non-corrosive features, they prove highly suitable for challenging industrial settings. A diverse range of sizes and configurations is available, catering to your specific requirements.

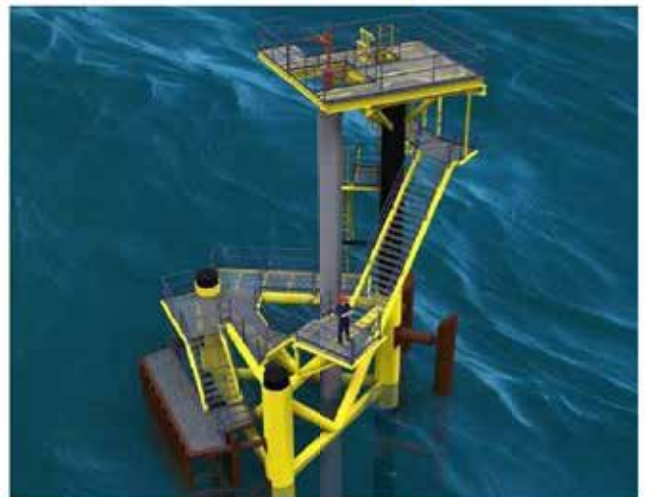
Furthermore, our access platforms are designed for easy installation and maintenance, minimizing downtime and enhancing productivity. They offer customization options, including handrails, kickplates, and stairs, to meet precise safety standards.

Standard Top View of FRP Walkway with Gratings and Handrails Compliant to AS 1657

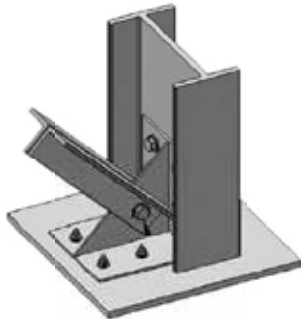


Manufactured with top-notch materials and advanced technology, our access platforms adhere to the highest industry standards and regulations. With a lengthy service life and minimal maintenance requirements, they present a cost effective solution for your industrial access needs.

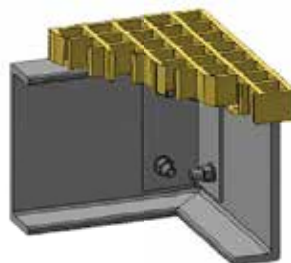
Whether your project involves a vast manufacturing facility or a compact warehouse, we deliver tailored solutions. The DM Composites™ team of experts collaborates with you to design and install the ideal access platform for your specific needs. Reach out to us today to discover more about our FRP access platforms and how we can contribute to enhancing safety and productivity in your workplace.



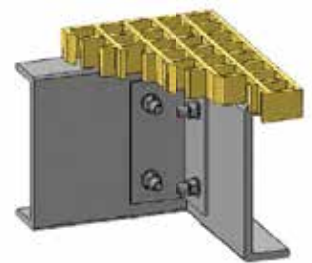
TYPICAL CONNECTION DETAILS



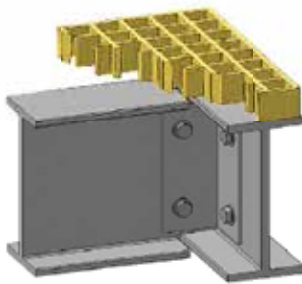
FLOOR COLUMN BRACING



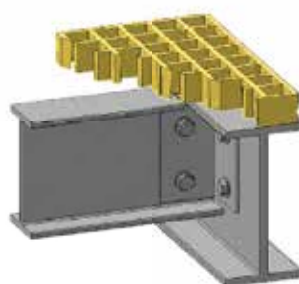
PFC 90° CONNECTION
(FLANGES INWARD)



PFC 90° CONNECTION
(FLANGES OUTWARD)



I-BEAM 90° CONNECTION



I-BEAM 90° CONNECTION
(DIFFERENT DEPTH)



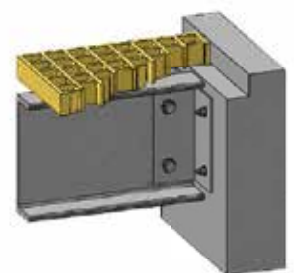
PFC COLUMN CONNECTION
(FLANGES OUTWARD)



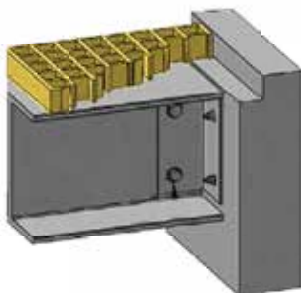
PFC COLUMN CONNECTION
(FLANGES INWARD)



PFC 90° CONNECTION
(FLANGES INWARD)



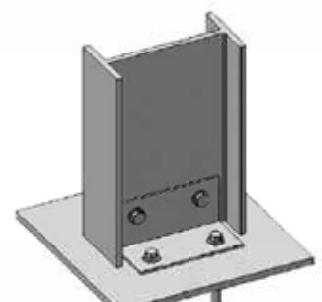
PFC TO WALL
CONNECTION



I-BEAM TO WALL
CONNECTION



WIDE FLANGE TO I-BEAM
CONNECTION



COLUMN TO FLOOR
CONNECTION

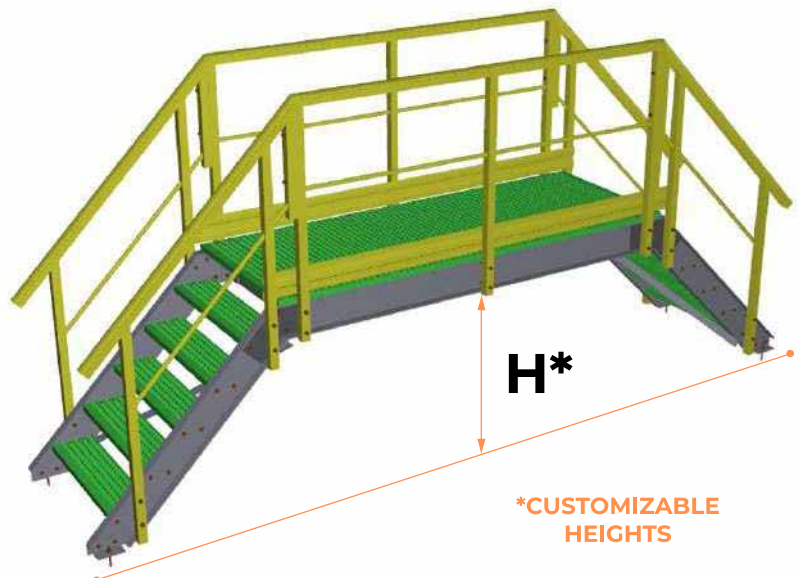
CROSSOVERS

In industrial settings, the presence of crossover platforms is pivotal for facilitating safe navigation around machinery and equipment. **DMSAFE™** FRP crossover platforms present an optimal alternative in environments where traditional metal platforms may face corrosion or deterioration. Constructed from high-strength FRP materials, our platforms are engineered to endure harsh industrial conditions, ensuring a robust and enduring solution.

Customization options encompass height, length, and width, guaranteeing a precise fit for your facility. Equipped with handrails and guardrails for enhanced safety, these platforms are easy to install and maintain.

Designed to offer a secure and efficient means for employees to traverse hazardous areas like pipelines, ducts, or conveyors, our FRP crossover platforms, crafted from high-strength FRP materials, exhibit exceptional durability and corrosion resistance.

Available in straight, angled, and custom configurations, these crossovers are both lightweight and robust, facilitating straightforward installation and maintenance. Their non-conductive nature adds an extra layer of safety for your workforce.



A variety of accessories and options, including handrails, guardrails, and access ladders, are available for our crossovers. Our adept team of engineers and designers collaborates with you to create a custom crossover platform solution tailored to your unique requirements.

HANDRAILS

| HANDRAILS



DMSAFE™ introduces FRP safety handrails that establish a protective shield for your workforce, guarding against falls and potential accidents. Engineered to be lightweight, non-conductive, and resistant to corrosion, these barriers prove ideal for challenging industrial settings. A diverse array of sizes and configurations is at your disposal to match your precise requirements.

Our guardrails adhere strictly to Australian and International Standards, underscoring our commitment to providing a secure and dependable solution for your industrial site. Focused on safety and quality, our guardrails embody these principles.

Opt for **DMSAFE™** FRP Modular guardrails, conveniently available in pre-fabricated sections measuring 1000mm in height and designed for on-site assembly. Additionally, we provide the flexibility of crafting customized sections or supplying components for constructing personalized handrails. The installation process is swift and non-invasive, especially suitable for platforms. Moreover, our guardrails exhibit remarkable durability, capable of withstanding the challenging conditions of commercial and industrial environments.

DMSAFE™ introduces its range of FRP handrail fittings, offering an optimal solution for linking and securing railings and guardrails. Designed in a multitude of shapes to accommodate various angles and connections, these fittings are specifically engineered for longevity, lightweight composition, and superior strength. Crafted utilizing cutting-edge sheet mould compound (SMC) technology, they boast exceptional mechanical resilience. Furthermore, customized fixtures tailored to unique shapes and colours (safety yellow or light grey) are available upon request, subject to specified quantities.



RAIL



KICKPLATE



2-WAY JOINT



3-WAY JOINT



90° ELBOW JOINT



4-WAY JOINT



3-WAY CORNER JOINT



4-WAY CROSS JOINT



WALL BRACKET



FLOOR BASE



UNIVERSAL 2-WAY JOINT



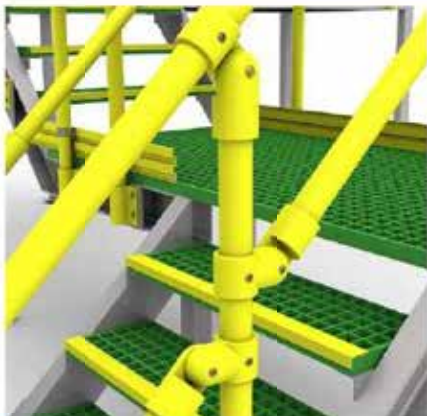
UNIVERSAL 3-WAY JOINT



UNIVERSAL JOINT



RAIL END CAP



Choose from a variety of colors, allowing you to highlight hazardous areas with yellow or manage pedestrian movement with grey. Lastly, the low thermal conductivity of our FRP handrails ensures a safe environment.

STAIRS

DMSAFE™ introduces FRP stair systems, providing a secure and robust solution for navigating different levels within your industrial facility. Crafted to be slip resistant, non-conductive, and corrosion-resistant, these staircases ensure a safe and dependable means of access for your employees. Tailored to meet unique requirements, we offer a diverse selection of sizes and configurations.

Our FRP staircases prioritize safety and durability in design and manufacturing. With a lightweight structure, they are easily installable and relocatable if the need arises. The non-conductive and noncorrosive nature of our FRP materials makes these staircases well-suited for deployment in challenging and corrosive industrial environments. Various sizes and configurations are available to cater to specific needs.



Moreover, our staircases can be delivered fully assembled, encompassing all components from stringers and guardrails to stair treads and tread supports – all constructed from high-quality FRP. Compliant with AS 1657, our staircases adhere to the strictest safety standards.



As an added feature, LED lighting can be incorporated underneath the handrail, ensuring well-illuminated steps both day and night. Elevate your industrial access with **DMSAFE™** FRP stair systems.



VERTICAL LADDERS

| VERTICAL LADDERS



DMSAFE™ introduces FRP step ladders, meticulously designed to provide a secure and efficient means for your employees to reach elevated areas. Compliant with AS 1657, these step ladders come in various configurations tailored to your specific needs. For added safety, customization options include safety gates and safety cages, offering additional protection against falls. The safety cages can also serve to prevent unauthorized access, complete with the option to fit them with locks. Lightweight, non-conductive, and non-corrosive, these step ladders are ideal for use in demanding industrial environments.



The FRP Access Ladders from the **DMSAFE™** collection are crafted using structural sections made of Glass Reinforced Plastic Pultruded material. These sections, more robust than their metal counterparts in terms of weight, make composite ladders well-suited for harsh environments where corrosion is a concern—such as water, waste, marine, and chemical industries. All safety cages and composite ladders are produced in-house, adhering to the dimensional requirements outlined in AS 1657.

This versatile product finds application in chemical plants, water and waste treatment facilities, marine and offshore environments, petrochemical facilities, power stations, and substations. It is suitable for various scenarios requiring safe access to elevated or underground areas. Several ladder types are available, including:

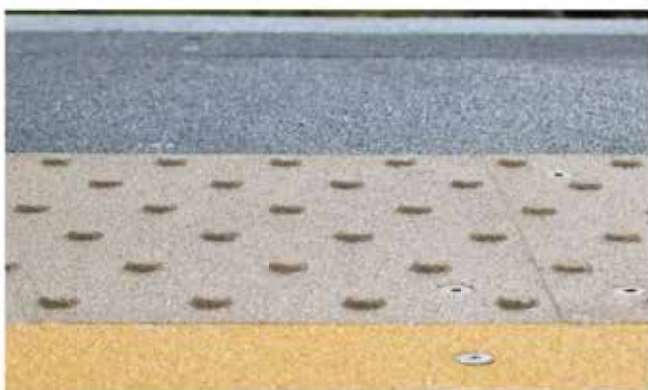
- 1. STANDARD:** A straight ladder commonly used in chambers or manholes, aiding access through a trapdoor. Installation may involve foot and wall brackets, with a raised ladder in specific situations to prevent ragging up in a sewer.
- 2. WITH SAFETY CAGE:** Similar to the standard ladder, but for any ladder exceeding 2.2m in height, a safety cage is mandatory.
- 3. WITH WALK-THROUGH TOP:** The ladder's top is widened for ease of use, often used to access platforms with handrails. **DMSAFE™** Ladders are customizable in both yellow and grey colors. The choice extends to Stainless Steel or Fibreglass Wall Brackets, providing a 200mm isolation from the wall. Elevate your access solutions with **DMSAFE™** versatile and secure FRP step ladders.

COVERS

| PLATE COVERS

DMSAFE™ presents Flooring Covers specifically crafted for high footfall applications, delivering a secure and slip-resistant pedestrian walking area. This strip system is easily retrofitted onto existing structures such as walkways, ramps, factory floors, and bridges, enhancing safety and preventing slips.

Constructed from non-porous material, **DMSAFE™** Flooring Cover resists dirt build-up and is easy to clean. Its resilience allows it to withstand aggressive cleaning agents without sustaining damage, ensuring durability and longevity. The versatile FRP Plate can be retrofitted onto existing concrete, steel, or timber structures, serving as a safer and more enduring alternative to traditional steel and plastic anti-slip products.



FRP Plate covers are customizable for tactile flooring applications.

Typically manufactured to a standard thickness of 4.5 mm, the product is meticulously designed to ensure optimal performance and durability. Elevate safety standards with **DMSAFE™** Flooring Covers, providing a reliable solution for various industrial settings.

Experience unparalleled longevity with our **DMSAFE™** FRP Tread Covers, surpassing metallic alternatives by lasting up to five times longer. This not only results in initial cost savings but also reduces installation time and expenses significantly.

The possibility to include fire-retardant additives, compliant with ASTM E84, ensures outstanding fire and heat resistance, enhancing overall safety.

The heavy-duty grit surface is deeply impregnated to prevent delamination, a common issue in insecure metal-backed alternatives. **DMSAFE™** Nosing is also resistant to chemicals, making it an ideal choice for corrosive environments. Specifically designed to re-profile the leading edge of any step, it stands out as the preferred option for corrosive applications. Constructed from robust fiberglass FRP, it can withstand the harshest conditions.

SPECIFICATIONS



Length: DMSAFE nosing is customizable to fit any length, with a maximum limit of 3250mm.



Colour: For optimal visibility, the standard Safety Yellow color is recommended, although alternative colors can be requested.



Applications: Suitable for various industries, including Shipping, Marine, Refining Chemicals, and more.



Depth: The standard depth options include 50mm, 70mm, 75mm, and 100mm. It can also be tailored to any depth, with a maximum limit of 300mm.



Elevate safety standards and durability with **DMSAFE™** Nosing, a customized solution for various industries and corrosive environments.



Ensuring safety takes centre stage for industrial facility owners, especially in areas with high foot traffic. The strategic investment in **DMSAFE™** anti-slip rung covers for ladders and walkable surfaces emerges as a substantial boon for your business.

The inherent risk of injuries on slippery surfaces, particularly on small-foot spaces like stairs or ladder rungs, makes slip-resistant walk-on covers an indispensable safety measure. **DMSAFE™** rung covers prove highly effective, especially in challenging weather conditions where air moisture diminishes floor traction. These ladder rung covers address the need to mitigate accidents on ladders, acknowledged as among the riskiest surfaces due to their limited foot space.

Furthermore, **DMSAFE™** rung covers exhibit impressive resistance to corrosive mixtures, severe weather, and chemicals, ensuring enduring performance and longevity. The installation process is simplified by the availability of accurately predrilled fixing holes.

SPECIFICATIONS



Color: The standard Safety Yellow color ensures excellent visual highlighting, with custom colors available upon request.



Length: Rung covers are available in lengths up to 3250mm, suitable for diverse applications such as Wine Production, Shipping, Truck Body Building, Water Treatment, Marine, Chemical, and more.



Adaptability: **DMSAFE™** Rung covers can be tailored to fit both round and square surfaces, with dimensions customizable to your specific requirements. Available in diameters of 20mm, 25mm, 30mm, 38mm, and 42mm, the **DMSAFE™** rung covers offer a versatile and adaptable solution for **your needs**.

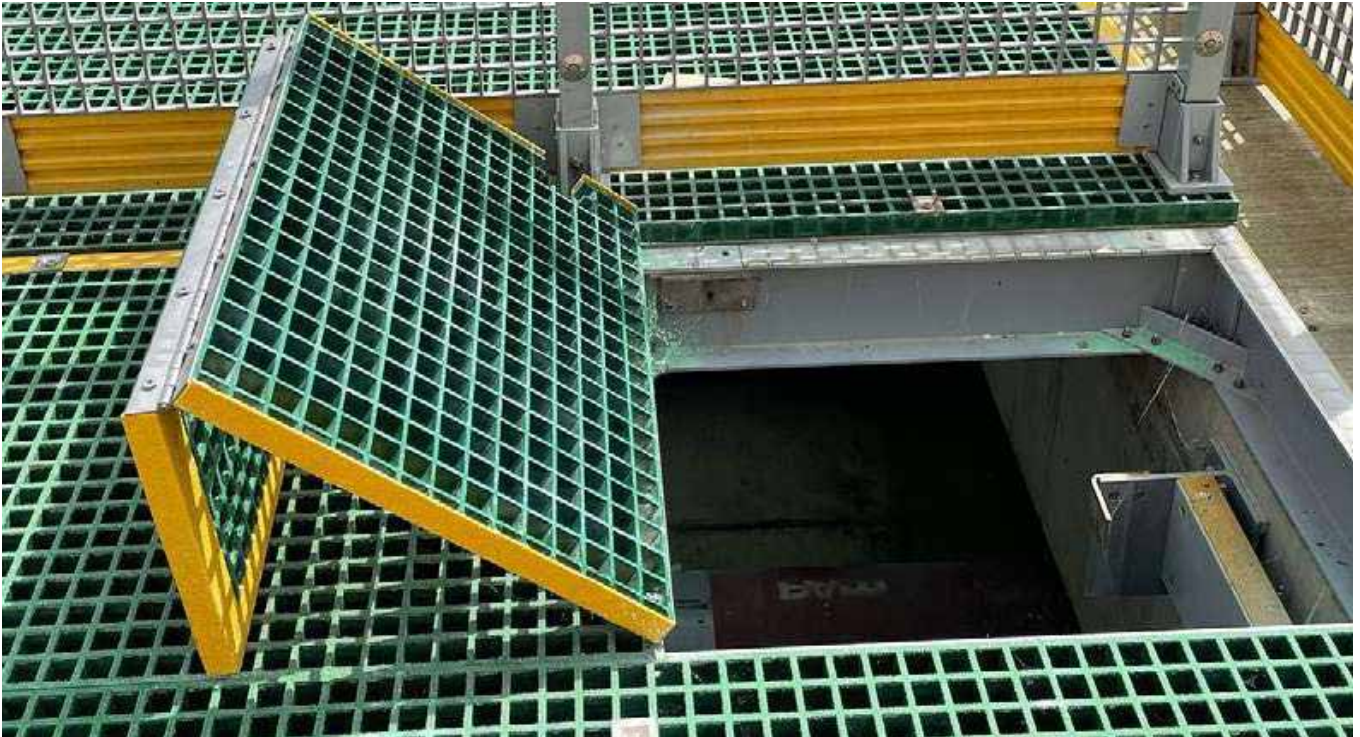
Elevate safety standards with **DMSAFE™** Rung covers, a customized and versatile solution designed to enhance safety across various industries and environments.



| ACCESS HATCHES



DMGRATE™ is the top choice for concealing various structures like sumps, tanks, drains, and more. Its benefits include corrosion resistance, chemical immunity, and anti-slip properties. With customizable options and lightweight design, it's easy to install and maintain. Choose from different styles for specific needs, including watertight options. Our **DMSAFE™** Access Hatches offer color variety and can be tailored to your requirements, whether for self-installation or professional installation services.



Our **DMSAFE™** Access Hatches provide safety for engineers during inspections and maintenance of waste wells and tanks. Crafted with our **DMTOP™** FRP Gratings, they reduce odors and trip hazards. A secondary cover with Open **DMMESH™** FRP Gratings ensures fall protection without obstructing visibility. Lightweight and durable, these covers resist water and chemicals, meeting safety standards and offering long-term security.

They can be integrated easily and are suitable for various applications. Contact us for your manhole cover needs.



DMSAFE™

🌐 www.dmcomposites.com.au

✉ info@dmcomposites.com.au

☎ (+61) 469 871 368

📍 Australia

📱🌐 Connect with us