

STAIRCARE MATERIAL FOR FOOD PREMISES

Tailor-made Safety solutions
for industries since 2004





STAIRCARE PLATFORM MATERIAL COMPLIANCE WITH AS4674 –2004; DESIGN, CONSTRUCTION AND FIT-OUT OF FOOD PREMISES

Staircare is our FRP materials that offer all the advantages including; corrosion resistance, non-conductive, UV resistant, low maintenance, no repainting, easily cleaned with water pressure for a long service life in the most demanding environments.

Staircare Platforms built with FRP (Fibre-Reinforced Polymer) materials can comply with AS4674-2004, "Design, Construction and Fitout of Food Premises," by meeting the standard's requirements for hygiene, safety, durability, and ease of maintenance. Here's how Staircare platforms align with these key areas:



ENHANCE SAFETY WITH STAIRCARE PRODUCTS

1. PREMIUM ANTI-SLIP PLATES

At Staircare, we are committed to providing innovative and reliable safety solutions designed to meet the strict demands of food processing and storage environments.

Our Anti-Slip Plates provide superior traction, durability, and corrosion resistance, making them the ideal choice for access ramps, platforms, landing areas, and other walkways within food factories, storage facilities, and food preparation premises.



2. STAIRCARE LADDER RUNG

Staircare Ladder Rungs are made from composite fibreglass reinforced resin with silicon carbide anti-slip grit, engineered to perform in hygiene-critical areas. They are suitable for high exposure to washdowns, saltwater, and cleaning chemicals commonly used in food industries, such as acids, alkalis, and solvents.

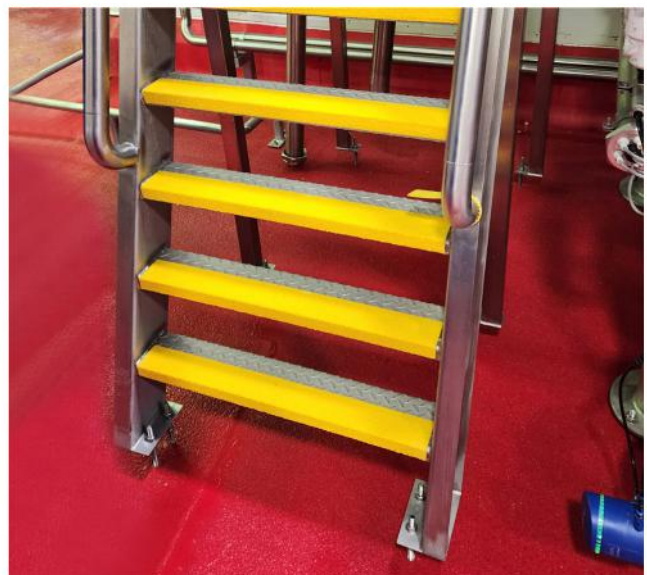
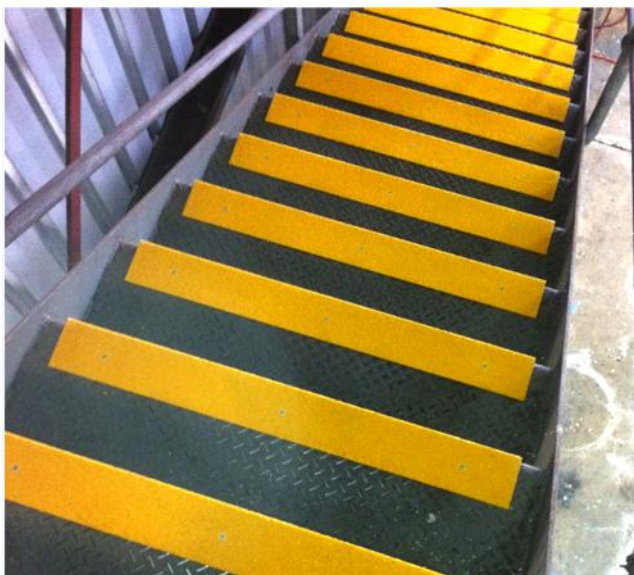
Ladder rung covers are non-conductive, non-magnetic, and include fire-retardant and UV protection, ensuring long-term safety and reliability in food industry facilities.



3. ANTI-SLIP STAIR EDGE PROTECTION BY STAIRCARE

Stair tread nosing is manufactured from high-quality fibreglass reinforced resin, designed to withstand demanding conditions found in food processing environments. During production, silicon carbide or quartz is integrated into the surface to create a permanently bonded, slip-resistant grit.

Staircare products deliver excellent resistance to chemical and petrochemical spills, saltwater, cleaning agents, fumes, and fire. These properties make them especially suitable for use in food production plants, cold storage areas, and food handling premises.

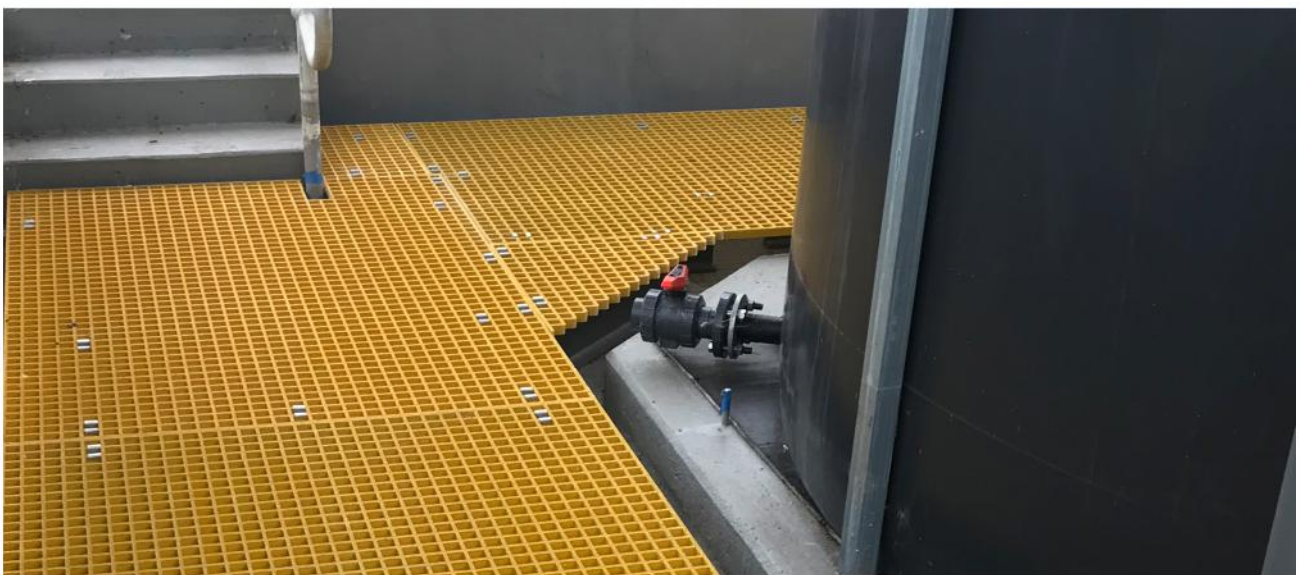
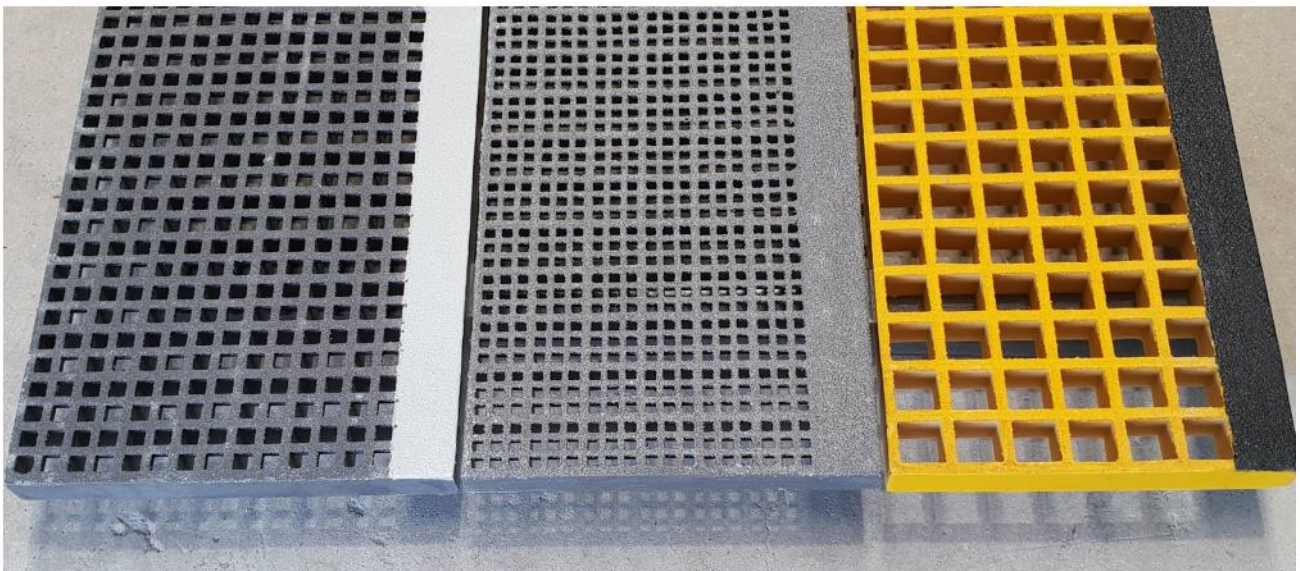


4. SQUIRE MESH GRATING

Staircare products are environmentally friendly and offer exceptional corrosion and chemical resistance. They are always prepared with advanced manufacturing techniques.our FRP gratings are light in weight compared to steel and offer resilient, low maintenance, safe and versatile access.

Their applications are step and walkway solution in heavy duty application, such as food factories, workshops and other places.

Staircare offers highly innovative product solutions to our clients based on latest tools and techniques.



MOLDED GRATING SELECTION & DETAILS

Molded grating are popular in various parts of the industry. Molded gratings are a combination of fibers and resins that have been used to replace metal gratings. Molded gratings are produced in a variety of resins, standard colors, and different panel sizes and mesh configurations and are a great alternative to metal mesh, where there are problems of rust, corrosion or chemical damage. Due to its structure (approximately 65% resin and 35% roving fiberglass), the grating is unique in terms of corrosion resistance in demanding environments and offers excellent impact resistance. frp Open grates have good ventilation and drainage properties, they can also be supplied with a solid surface for Pedestrian and Vehicle traffic.

- The allowable cantilever span for the grating is limited to 20% of the simply supported span.



Maximum Span calculation is based on single span assumption. The maximum span will be higher for continuous span condition. Please contact us for more information.

The maximum allowable span has been calculated according to the ultimate and serviceability load combination AS1170.0 (ULS:1.2D+1.6L, SLS=D+0.6L), the maximum deflection was assumed Span/200 and Span/300. The more technical consideration for complex loadings and support conditions are available, please contact us for technical advice.

- Standard frp grating colors are dark gray, green, yellow, orange, red and light gray. Custom colors available.

FRP GRATING COLORS

NAME	COLOR
Light Gray RAL7035	
Slate Grey RAL7015	
Black Grey RAL 7021	
Grass Green RAL6010	
Signal Yellow RAL 1003	
Orange	
Red	

SLIP RESISTANCE TEST RESULTS

Slip Resistance Classification of New Pedestrian Surface Materials

AS 4586:2013 Appendix A (Wet Pendulum Test)

Reported SRV of Sample: 69

Class P5

KEY Slip Resistance Classification Based on Wet Pendulum Test (AS 4586:2013)

Class	BPN Range	Description
P0	Less than 12	Very slippery and hazardous surface under wet conditions.
P1	12 to 24	Slippery surface, suitable for areas requiring low slip resistance.
P2	25 to 34	Relatively safe surface, but may be slippery under certain conditions.
P3	35 to 44	Safe surface for most conditions, but caution may be needed in very wet conditions.
P4	45 to 54	Very safe surface, suitable for areas with a high risk of slipping.
P5	55 and above	Extremely safe surface, ideal for high-risk areas such as pools or industrial kitchens.

Slip Resistance Classification of New Pedestrian Surface Materials

AS 4586:2013 Appendix B (Dry Floor Friction Test)

Reported SRV of Sample: 1.00

Class D1

KEY DRY TEST RESULTS INTERPRETATION GUIDE (AUSTRALIAN STANDARD)

Classification Result	Test Result Mean Value (COF)	Notional contribution of the floor surface to the risk of slipping when dry
D1	≥ 0.40	Low to Moderate
D0	< 0.40	High to Very High

Slip Resistance Classification of New Pedestrian Surface Materials

AS 4586:2013 Appendix C (Oil-Wet Inclining Platform Test)

Correct Mean Overall Acceptance Angle: 31°

Class R12

Oil Wet Ramp Inclining Platform Slip Rating	Corrected Ramp Angel
No Classification	Less than 6 degrees
R9	Equal or greater than 6 degrees, but less than 10 degrees
R10	Equal or greater than 10 degrees, but less than 19 degrees
R11	Equal or greater than 19 degrees, but less than 27 degrees
R12	Equal or greater than 27 degrees, but less than 35 degrees
R13	Equal or greater than 35 degrees

Appendix A, Appendix B, Appendix C, Appendix D is available on request.

KEY COMPLIANCE AREAS OF AS4674-2004

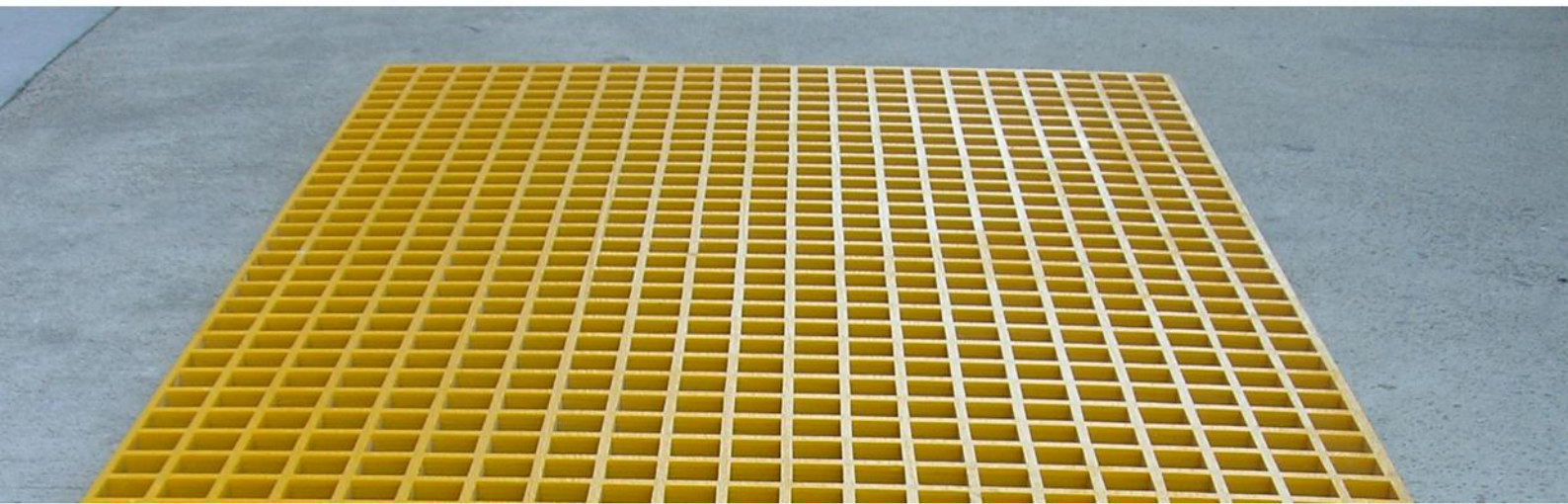
1. EASE OF CLEANING AND SANITIZATION

SMOOTH AND IMPERVIOUS SURFACES

AS4674-2004 emphasises the importance of surfaces being smooth and impervious to facilitate cleaning and prevent contamination.

FRP COMPLIANCE

StairCare coated with a gel coat resin finish, creating a smooth, non-porous surface that is easy to clean. This surface resists absorption of moisture and prevents the build-up of bacteria and mould, ensuring compliance with hygiene requirements.



2. DURABILITY AND MAINTENANCE

RESISTANCE TO DAMAGE

The standard requires materials to be durable and resistant to chipping, cracking, and peeling.

FRP COMPLIANCE

FRP is highly durable and resistant to corrosion, chemicals, and impacts, making it an excellent choice for the harsh conditions often found in food premises. Its long lifespan and low maintenance needs contribute to compliance by ensuring consistent performance without frequent repairs or replacements.

3. SAFETY FEATURES

SLIP RESISTANCE

AS4674-2004 mandates that floors and platforms should be slip-resistant to ensure safety

FRP COMPLIANCE

Frp Platforms are manufactured with slip-resistant surfaces, to provide secure footing and prevent slips and falls we use Staircare Grating with concave finish that are easy to clean, for Class P5 slip resistance.

4. DESIGN TO MINIMIZE CONTAMINATION

AVOIDING DIRT ACCUMULATION

The design should prevent the accumulation of dirt, dust, and food particles.

FRP COMPLIANCE

FRP platforms are designed with suitable floor grating that prevent water pooling and facilitate easy cleaning. Seamless construction options reduce the potential for dirt and debris accumulation.

PRACTICAL CONSIDERATIONS FOR COMPLIANCE

1. MATERIAL SELECTION AND QUALITY

SELECTION

Staircare ensures that the FRP materials chosen meet the specific hygiene and safety standards required by AS4674-2004.

QUALITY CONTROL

Use high-quality FRP products from reputable manufacturers to guarantee compliance and performance.



2. DESIGN AND INSTALLATION

PROFESSIONAL INSTALLATION

Use experienced contractors who understand the requirements of AS4674-2004 and can ensure that FRP platforms are installed correctly.

SEAMLESS AND HYGIENIC DESIGN

StairCare opts for designs that minimize seams and joints, as these can be potential areas for contamination. structural Profiles are available in seamless lengths of up to 5.8 meters.

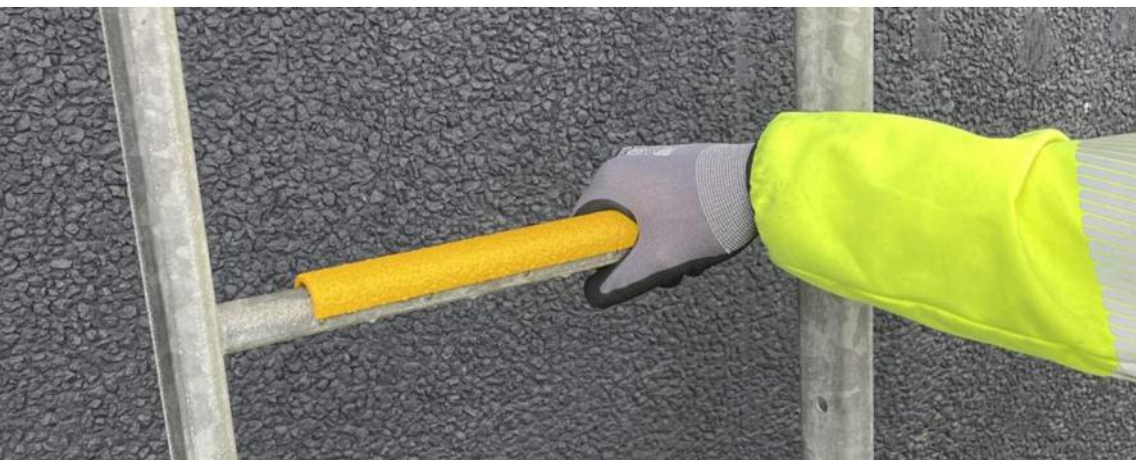
3. REGULAR MAINTENANCE AND INSPECTION

CLEANING PROTOCOLS

Implement regular cleaning protocols using appropriate cleaning agents that do not damage the FRP surface.

ROUTINE INSPECTIONS

Conduct routine inspections to ensure that the platforms remain in good condition, with no signs of wear or damage that could compromise hygiene or safety.



IN SUMMARY

Staircare platforms can be designed and installed to comply with AS4674-2004 by ensuring they are smooth, impervious, durable, and safe. Staircare ensures proper design and fabrication, while installation and maintenance are also essential for achieving and maintaining compliance with the standard.

STAIRCARE MATERIAL FOR FOOD PREMISES



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