

# Perry Fibre Reinforced Polymer (FRP) Grating

Product Technical Statement: 108002



a non-metallic square pattern moulding walkway and accessway grating

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## Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include technical information by manufacturer and either an independent assessment or reference to an industry-based scheme



Perry confirms that this minimum level of assurance has been met or exceeded by the following:

Perry Grating

[Technical Standards](#)

## Technical Statement

### Product Description

Perry FRP Grating is a non-metallic square pattern moulding walkway and accessway grating that is:

- non-conductive and non-sparking, making it safe in highly combustible environments.
- cost effective, with a long life span with reducing on-going maintenance costs.
- light weight, being half the weight of steel. This makes for easy and low cost installation and easy to remove when carrying out on-site maintenance.

Perry FRP Grating consists of:

- Glass fibre reinforcement
- Resin
- Inert fillers
- UV stabilisers
- Promoters and flame retardants
- Chemical colour pigment offering a natural (through colour) finish that does not require painting

Perry FRP Grating is available fabricated from a number of resins, each of which has properties suited to particular applications:

- Isophthalic Polyester – industrial grade corrosion resistance; suitable operating temperature – 50 to 110 degrees Celsius.
- Phenolic – Low smoke and fire resistant; suitable operating temperature – 50 to 180 degrees Celsius.
- Vinyl Ester – generally enhanced chemical resistance and operating temperature range.

Note: Isophthalic Polyester is available ex stock. Phenolic and Vinyl Ester are available on indent.

Other options for FRP Grating include:

- Grit top or concave surface
- Depth of 25mm, 38mm or 50mm
- Colour options of green, yellow or grey

Perry FRP Grating can be supplied as full sheets (3660mm x 1220mm or cut to your specific size requirements).

Perry Grating can manage the entire project specification, from drawing and layout specification, through manufacturing and quality control to delivery and installation.

### Scope of use

Perry FRP Grating is designed to provide walkway access in a wide range of industrial, processing and public access situations.

Perry FRP Grating is an excellent choice for:

- Water Treatment Plants
- Wineries
- Marinas
- Chemical Plants
- Oil Rigs
- Power Stations
- Walkways in Nature Reserves
- Dairy Processing Plants
- Meat Processing Plants

### New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:



**masterspec partner**

### Company Contact Details



Company:	Perry Grating
Physical Address:	97 Hull Road Mt Maunganui TAURANGA
Postal Address:	97 Hull Road Mt Maunganui TAURANGA
Telephone:	64 07 5779448
Email:	<a href="mailto:grating@perry.co.nz">grating@perry.co.nz</a>
Website:	<a href="https://perrygrating.co.nz/">https://perrygrating.co.nz/</a>

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- **Clause B1 Structure:** Performance B1.3.1, B1.3.2, B1.3.3, B1.3.3(a), B1.3.3(b), B1.3.3(f), B1.3.3(h), B1.3.4, B1.3.4(a), B1.3.4(b), B1.3.4(c), B1.3.4(d), B1.3.4(e)
- **Clause B2 Durability:** Performance B2.3.1(b)
- **Clause D1 Access routes:** Performance D1.3.3(b), D1.3.3(d)
- **Clause F2 Hazardous building materials:** Performance F2.3.1

## Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

Perry Grating will provide a PS1 as a path to compliance. Please contact [grating@perry.co.nz](mailto:grating@perry.co.nz) for further information.

Perry FRP Grating complies with AS1657:2013 Fixed platforms, walkways, stairways and ladders – Design, construction and installation which is referenced as an Acceptable Solution in D1/AS1 for access routes for service and maintenance personnel.

## Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:

Perry Grating  
[Technical Standards](#)

## Use in Service History

Perry FRP Grating has been installed in facilities for over 15 years.

## Product Criteria

### Design requirements

Grating depth starts at 14mm and sizes above this are specified depending on product application and loading.

See the Load Tables for FRP Grating in our online [Product Catalogue](#), or [contact](#) Perry Grating for assistance with the appropriate grating type for specific applications.

### Installation requirements

Panels are supplied to site. Perry Grating fixings clips (hot dip galvanized or grade 316 stainless steel) are recommended for securing grating to the support structure.

### Maintenance requirements

Perry FRP Grating may require a cleaning and maintenance schedule based on the environment in which it is used.

## Warrantees

[Contact](#) Perry Grating for a conformance letter based on element exposure and application.

## Company Product Information

### Quality Assurance



ISO 9001 (Quality Management)

### Relationships



New Zealand Made



Date last validated: **13 September 2022**



Date last updated: **13 September 2022**

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