



# MOULDED GRATING **PRODUCT GUIDE**

GRP AUSTRALIA | 2026

GRP-BR-02-REV04

MOULDED GRATING 2026

# MOULDED GRATING

## PRODUCT GUIDE

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## 1.0 COMPANY BRIEF

GRP Australia is a Brisbane based, owned and operated company. As an independent supplier we source and import FRP pultruded structural sections and FRP moulded grating from trusted quality manufacturers. This enables us to provide our customers with quality products at competitive prices. In addition to supplying quality products, GRP Australia also provides design and fabrication services which can be for simple cutting services to detail design and fabrication of complete walkways and platforms.

We stock a wide range of commonly used moulded grating in various sizes and colours however, custom sizes and colours can also be supplied with a typical lead time of 10 to 12 weeks. Our sales staff are happy to assist with your inquiries.

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### 2.0 RESIN BASE

GRP Australia offers four resin systems to accommodate various applications ensuring the optimal utilisation of moulded grating. Resin type should be chosen according to the environment in which the material is intended to be used.

| Resin Type | Resin Base            | Description  | Corrosion Resistance | Flame Spread Rating<br>ASTM E84 | Cost            |
|------------|-----------------------|--|----------------------|---------------------------------|-----------------|
| VER-25     | Vinyl ester           | Superior corrosion resistance and retardant.                   | Excellent            | Class 1, 25 or less             |                 |
| VER-10     | Vinyl ester           | Superior corrosion resistance and enhanced retardant           | Excellent            | Class 1, 10 or less             | Most Expensive  |
| IFR-25     | Isophthalic polyester | Industrial grade corrosion resistance and fire retardant       | Very good            | Class 1, 25 or less             | Least Expensive |
| IFR-10     | Isophthalic polyester | Industrial grade corrosion resistance and extra fire retardant | Very good            | Class 1, 10 or less             |                 |



#### VER-25

Primarily used in grey water, mining, plating and petrochemical applications. Type VEFR-25 is designed to withstand harsh chemical environments where the grating is subject to direct contact with harsh chemicals.



#### IFR-25

Type IFR-25 provides an intermediate level of chemical resistance suitable for grating exposed to splash and spill contact with hard chemicals. With a flame spread rating of 25 or less, it is an ideal general purpose resin with a reduced cost.



#### VER-10

Type VEFR-10 is manufactured with an enhanced flame spread rating of 10 or less for applications that require additional flame resistance i.e. *offshore platform*.



#### IFR-10

Type VEFR-10 has an enhanced flame spread rating of 10. It is manufactured to the same high quality as Type IFR-25.

## 3.0 FIRE PROPERTIES

| RESIN TYPE | RESIN CODE | GENERAL PROPERTIES    |  | Flame Spread Rating<br>ASTM E84 |
|------------|------------|-----------------------|--|---------------------------------|
| IFR25      | I          | Isophthalic Polyester | Standard grating resin type. Very good chemical resistance and good flame resistance. Good general purpose resin suitable for most applications. | Class 1, 25, or less            |
| VER25      | V          | Vinyl Ester           | Excellent chemical resistance and good flame resistance. Suitable for applications in aggressive environments and higher temperatures.           | Class 1, 25, or less            |
| IFR10      | I10        | Isophthalic Polyester | Refer to IFR25. Superior flame resistance.   |                                 |
| VER10      | V10        | Vinyl Ester           | Refer to VER25. Superior flame resistance.   |                                 |

### Critical Radiant Flux (CHF)

Radiant Heat Tests were conducted on Moulded Grating in accordance with AS ISO 9239.1 - 2003 standards for fire testing of flooring coverings. All evaluations were performed on grating with a silicone grit surface to assess its fire resistance and suitability.

| RESIN TYPE | CHF VALUE<br>KW/M <sup>2</sup> | HF30<br>KW/M <sup>2</sup> | SMOKE VALUE<br>% MIN |
|------------|--------------------------------|---------------------------|----------------------|
| IFR25      | 9                              | 9.5                       | 365                  |
| VER25      | 11                             | NR Flame out before 30min | 84                   |
| IFR10      | 11                             | NR Flame out before 30min | 54                   |

### BAL RATING (Bushfire Attack Level)

BAL Rating Testing were conducted on Moulded Grating paired with GRP Australia's Fibre Frame Sub-Frame system in accordance with AS1530.8.1: 2007 standards for fire testing on elements of construction for buildings exposed to simulated bushfire attack. Testing was performed on grating with a silicone grit surface.

| RESIN TYPE | BAL RATING | Peak Heat Flux       |
|------------|------------|----------------------|
| IFR25      | 40         | 40 kW/m <sup>2</sup> |



### 4.0 ENVIRONMENT & DISPOSAL

FRP moulded grating ( fiberglass–reinforced unsaturated polyesters ) are a stable and virtually non-degradable material. Offcuts and profiles which are at the end of their service life, can be disposed as normal industrial waste as the materials do not give off substances which can harm the environment.

FRP offer significant CO2 emission benefits compared to traditional materials such as steel or concrete during construction and manufacturing. The lightweight nature of FRP reduces transportation emissions, while their durability and corrosion resistance result in longer lifespans, minimizing the need for frequent replacements and associated emissions from production.

## 5.0 OVERVIEW

FRP Moulded grating is a **one piece grating panel** manufactured in a heated mould using continuous **glass fibre rovings and resin**. The grating is ideally suited for residential decking, pontoons, walkways, flooring, screening, trench covers, stair treads and industrial and mining processing plants.

### Benefits of FRP Moulded Grating

- *Anti-slip Flooring*

The standard GRP Australia grating is supplied with a grit surface which has a P5 rating.

- *Corrosion & Fire Resistant*

Excellent corrosion resistance and available in several resin types to suit the application.

- *High Strength to weight ratio*

Provides excellent structural strength while being lightweight, ensuring safety and durability.

- *Non-Magnetic and non-conductive*

Do not interfere with sensitive electronic equipment, making them suitable for MRI rooms, aerospace, and defense applications.

- *Colours*

Available in a range of colours using the RAL Colour Chart. Standard colours are listed below.



**Cost Competitive**



**Non-corrosive & rot resistant**



**As strong as steel**



**Termite & vermin proof**



**High fire resistance**



**UV Stabilised**



**Lightweight & easy to lift**

### GRP AUSTRALIA Moulded Grating SKU Breakdown

e.g. MG3825G-IG 3665

| MG           | 38        | 25        | G              | - | I          | G      | 3665       |
|--------------|-----------|-----------|----------------|---|------------|--------|------------|
| Grating Type | Mesh Size | Thickness | Surface Finish | - | Resin Type | Colour | Sheet Size |

| Grating Type | Description       |             |
|--------------|-------------------|-------------|
| MG           | Moulded Grating   |             |
| PG           | Pultruded Grating |             |
| Mesh Size    | Description       | Open Area % |
| 13           | 13x13 Heel Guard  | 30%         |
| 19           | 19x19 Mini Mesh   | 40%         |
| 26           | 26x26 Agri Mesh   | 60%         |
| 38           | 38x38 Standard    | 56-78%      |
| 50           | 50x50 Mesh        | 78-82%      |
| 83           | 83x83 Mesh        | 84%         |

| Colour Code | Description           | Colour |
|-------------|-----------------------|--------|
| G           | Grass Green RAL6010   |        |
| LG          | Light Grey RAL9006    |        |
| SG          | Slate Grey RAL7015    |        |
| Y           | Signal Yellow RAL1003 |        |
| BG          | Black Grey RAL7021    |        |

\*Alternative colours available on request using RAL Colour Chart. Leadtime: 10-12 Weeks

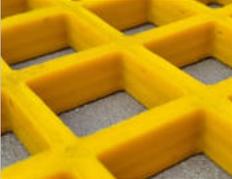
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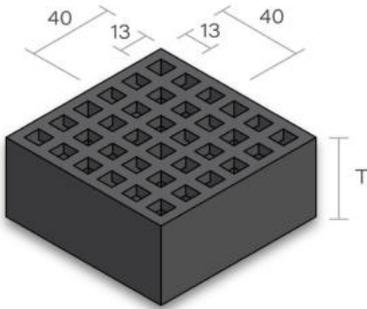
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### Moulded Grating Surface Finishes

FRP (Fiber Reinforced Plastic) moulded grating surface finishes offer a range of options catering to diverse needs. These finishes provide varying levels of slip resistance and durability suitable for different environments such as industrial floors, walkways, and residential decking.

| Surface Finish  | SKU CODE              | Description | SLIP RATING AS4586:2013   |    |
|---|-----------------------|-------------|---|----|
|    | <b>Concave Finish</b> | C           | Natural finish with slight concave profile on load bars   | P5 |
|   | <b>Flat Surface</b>   | FS          | 13x13 & 19x19 Moulded grating ground to a smooth flat surface<br><i>(Thickness of grating will be 2-3mm shorter due to grinding flat)</i>               | P2 |
|   |                       |             | 38x38 Moulded grating ground to a smooth flat surface<br><i>(Thickness of grating will be 2-3mm shorter due to grinding flat)</i>                       | P4 |
|  | <b>Fine Grit</b>      | FG          | A fine grit surface finish which requires the surface to be ground smooth to remove the concave finish before applying fine sand.                       | P5 |
|  | <b>Glass Beaded</b>   | GB          | A refined grit surface finish which requires the surface to be ground smooth to remove the concave finish before applying fine sand.                    | P5 |
|  | <b>Standard Grit</b>  | G           | Standard non-slip grit surface  | P5 |
|  | <b>Diamond Top</b>    | DT          | Flat top plate with raised tread pattern to maximise grip. Diamond Top thickness 3 or 5mm. Plate thickness adds to the overall thickness of the grating | P5 |
|  | <b>Grit Top</b>       | GT          | Grit Top Plate with a standard grit finish. 3mm or 5mm thick top plate. Plate thickness adds to the overall thickness of the grating                    | P5 |

## 6.1 HEEL GUARD | 13x13 / 40x40



Heel Guard Moulded Grating is perfect for commercial and residential applications, including outdoor patios, pool areas, and walkways, where slip resistance and safety are essential. Its lightweight, corrosion-resistant design ensures durability and low maintenance, making it an ideal choice for enhancing safety in high-traffic areas around homes, parks, and retail spaces.

**Hole Aperture: 8mm | Open Area: 30%**

### Surface Finishes



*Fine Grit*



*Glass Beaded*

### Standard Colours



**RAL7021**  
Black Grey



**RAL9006**  
Light Grey

### Sheet Size Options

| SKU    | Thickness | Bar Size               | Panel Size  | Weight     |
|--------|-----------|------------------------|-------------|------------|
|        | (mm)      | Top (mm) / Bottom (mm) | (mm)        | (kg/sheet) |
| MG1325 | 25        | 6.5/5                  | 1007 x 3007 | 53.9       |
|        |           | 6.5/5                  | 1247 x 4047 | 89.8       |
| MG1330 | 30        | 6.5/5                  | 1007 x 3007 | 57.8       |
|        |           | 6.5/5                  | 1247 x 4047 | 96.4       |
| MG1338 | 38        | 6.5/5                  | 1007 x 3007 | 72.1       |
|        |           | 6.5/5                  | 1247 x 4047 | 120.1      |

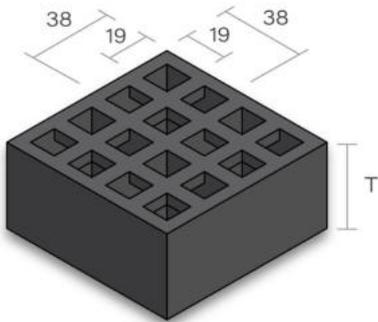
*\*Alternative sheet sizes, colours & surface finishes available upon request.  
(Contact GRP Australia for more details)*

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### 6.2 MINI MESH | 19x19 / 38x38



Minimesh Grating is an ideal solution for commercial and marine applications such as boardwalks, pontoons, and marina walkways, where exposure to water and harsh environmental conditions demands durability and slip resistance. Its lightweight yet robust design provides a safe, low-maintenance surface that withstands constant foot traffic, saltwater corrosion, and varying weather conditions.

**Hole Aperture: 13mm | Open Area: 40%**

#### Surface Finishes



Fine Grit



Flat Surface

#### Standard Colours



RAL7021  
Black Grey



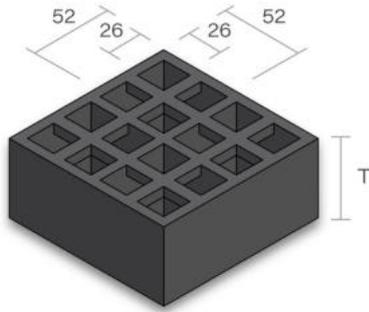
RAL9006  
Light Grey

### Sheet Size Options

| SKU    | Thickness | Bar Size               | Panel Size  | Weight     |
|--------|-----------|------------------------|-------------|------------|
|        | (mm)      | Top (mm) / Bottom (mm) | (mm)        | (kg/sheet) |
| MG1925 | 25        | 6.5/5.0                | 1226 x 2445 | 50.3       |
|        |           | 6.5/5.0                | 1226 x 3665 | 75.5       |
| MG1930 | 30        | 6.5/5.0                | 1226 x 3665 | 84.5       |
| MG1938 | 38        | 6.5/5.0                | 1226 x 2445 | 70.3       |
|        |           | 6.5/5.0                | 1226 x 3665 | 105.6      |

*\*Alternative sheet sizes, colours & surface finishes available upon request.  
(Contact GRP Australia for more details)*

## 6.3 AGRI MESH | 26x26 / 52x52



Agri Mesh Moulded Grating offers a durable, lightweight, and corrosion-resistant solution for various agricultural applications. Its high strength-to-weight ratio, slip resistance, and easy installation make it ideal for use in livestock areas, drainage systems, walkways, and other environments exposed to harsh conditions.

**Hole Aperture: 19mm | Open Area: 60%**

### Surface Finishes



Fine Grit

### Standard Colours



RAL7021  
Black Grey

### Sheet Size Options

| SKU    | Thickness | Bar Size               | Panel Size  | Weight     |
|--------|-----------|------------------------|-------------|------------|
|        | (mm)      | Top (mm) / Bottom (mm) | (mm)        | (kg/sheet) |
| MG2630 | 30        | 7.0/6.0                | 998 x 3075  | 46.9       |
|        |           | 7.0/6.0                | 1534 x 4053 | 95.1       |
| MG2638 | 38        | 6.0/5.0                | 1512 x 4012 | 118.3      |

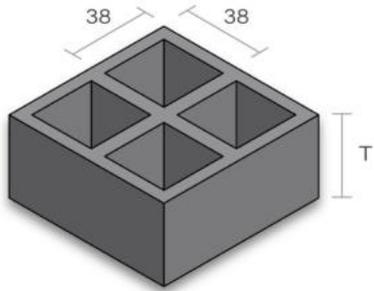
*\*Alternative sheet sizes, colours & surface finishes available upon request.  
(Contact GRP Australia for more details)*

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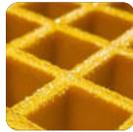
### 6.4 STANDARD | 38x38



Standard Grating is a durable, corrosion-resistant solution commonly used in harsh industrial environments, including wastewater treatment plants, chemical processing facilities, and offshore platforms. Its lightweight yet strong design makes it ideal for walkways, stair treads, platforms, and drainage covers where safety, slip resistance, and longevity are essential.

**Hole Aperture: 33mm | Open Area: 49-78%**

#### Surface Finishes



Standard Grit

#### Standard Colours



RAL7015  
Slate Grey



RAL1003  
Signal Yellow



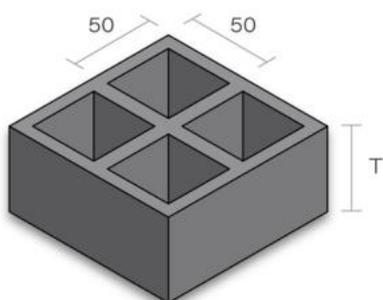
RAL6010  
Grass Green

### Sheet Size Options

| SKU    | Thickness<br>(mm) | Bar Size<br>Top (mm) / Bottom (mm) | Panel Size<br>(mm) | Weight<br>(kg/sheet) |
|--------|-------------------|------------------------------------|--------------------|----------------------|
| MG3815 | 15                | 6.0/5.0                            | 615 x 3665         | 15.8                 |
| MG3820 | 20                | 6.5/5.0                            | 1226 x 3665        | 44.0                 |
| MG3825 | 25                | 6.5/5.0                            | 1226 x 3665        | 55.3                 |
| MG3830 | 30                | 6.5/5.0                            | 1226 x 3665        | 65.6                 |
| MG3838 | 38                | 7.0/5.0                            | 1226 x 3665        | 87.6                 |
| MG3850 | 50                | 11.0/9.0                           | 1226 x 3665        | 188.8                |

*\*Alternative sheet sizes, colours & surface finishes available upon request.  
(Contact GRP Australia for more details)*

## 6.5 STANDARD | 50x50



Standard Grating is a durable, corrosion-resistant solution commonly used in harsh industrial environments, including wastewater treatment plants, chemical processing facilities, and offshore platforms. Its lightweight yet strong design makes it ideal for walkways, stair treads, platforms, and drainage covers where safety, slip resistance, and longevity are essential.

**Hole Aperture: 44mm | Open Area: 78-82%**

### Surface Finishes



Standard Grit

### Standard Colours



RAL7015  
Slate Grey

## Sheet Size Options

| SKU    | Thickness | Bar Size               | Panel Size  | Weight     |
|--------|-----------|------------------------|-------------|------------|
|        | (mm)      | Top (mm) / Bottom (mm) | (mm)        | (kg/sheet) |
| MG5015 | 15        | 6.0/5.0                | 1228 x 3666 | 26.6       |
|        |           | 6.0/5.0                | 1228 x 4020 | 29.1       |
| MG5025 | 25        | 7.0/6.0                | 1230 x 4020 | 56.9       |
| MG5040 | 40        | 6.8/5.0                | 1225 x 4020 | 97.1       |
| MG5050 | 50        | 8.0/6.0                | 1230 x 4020 | 117.2      |
|        |           | 8.0/6.0                | 1532 x 4020 | 145.9      |

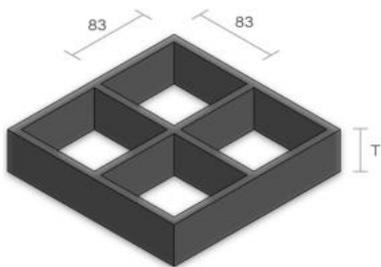
*\*Alternative sheet sizes, colours & surface finishes available upon request.  
(Contact GRP Australia for more details)*

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### 6.6 STANDARD | 83x83



83x83 Moulded Grating is a lightweight, corrosion-resistant, and slip-resistant solution ideal for commercial and architectural applications. It is commonly used in facade designs, sunshades, balcony enclosures, rooftop access areas, and decorative structures, offering durability, weather resistance, and aesthetic versatility. Its non-corrosive and UV-resistant properties make it perfect for malls, hotels, resorts, office complexes, and eco-friendly urban developments, providing both functionality and modern design appeal.

**Hole Aperture: 76mm | Open Area: 84%**

#### Surface Finishes



Flat Surface

#### Colours

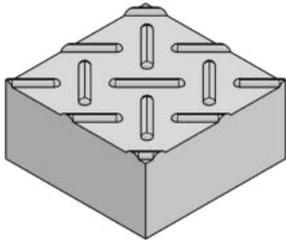


### Sheet Size Options

| SKU    | Thickness (mm) | Bar Size Top (mm) / Bottom (mm) | Panel Size (mm) | Weight (kg/sheet) |
|--------|----------------|---------------------------------|-----------------|-------------------|
| MG8338 | 38             | 6.5/5.0                         | 1007 x 3007     | 30.3              |
|        |                | 6.5/5.0                         | 1247 x 4047     | 50.5              |
| MG8340 | 40             | 6.5/5.0                         | 1007 x 3007     | 33.3              |
|        |                | 6.5/5.0                         | 1247 x 4047     | 55.5              |

*\*Alternative sheet sizes, colours & surface finishes available upon request. (Contact GRP Australia for more details)*

## 6.7 DIAMOND TOP | 38x38



FRP Moulded Grating with a diamond top surface is a high-strength, corrosion-resistant grating designed for enhanced traction and durability in commercial and architectural applications. It is commonly used for rooftop walkways, industrial mezzanines, machine platforms, balcony enclosures, and decorative screening, offering a sleek yet functional solution for environments requiring slip resistance, weather resistance, and modern aesthetics.

### Surface Finishes



Diamond  
Top

### Colours



CUSTOM  
Any RAL Colour

### Sheet Size Options

| SKU       | Thickness<br>(mm) | Top Cover Thickness<br>(mm) | Panel Size<br>(mm) | Weight<br>(kg/sheet) |
|-----------|-------------------|-----------------------------|--------------------|----------------------|
| MG3828DT3 | 28                | 3                           | 1226 x 3665        | 80.0                 |
| MG3830DT5 | 30                | 5                           | 1226 x 3665        | 97.7                 |
| MG3833DT3 | 33                | 3                           | 1226 x 3665        | 90.3                 |
| MG3835DT5 | 35                | 5                           | 1226 x 3665        | 108.0                |
| MG3841DT3 | 41                | 3                           | 1226 x 3665        | 112.3                |
| MG3843DT5 | 43                | 5                           | 1226 x 3665        | 130.0                |

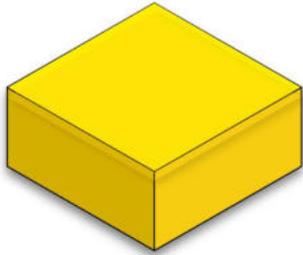
*\*Alternative sheet sizes & colours available upon request.  
(Contact GRP Australia for more details)*

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### 6.8 GRIT TOP | 38x38



FRP Moulded Grating with a solid grit top surface is a durable, non-slip solution designed for maximum safety and corrosion resistance in high-traffic and wet environments. It is commonly used for access ramps, pedestrian bridges, rooftop walkways, maintenance platforms, and commercial entryways, providing a sealed, anti-slip surface that prevents debris buildup while ensuring long-lasting performance in both indoor and outdoor spaces.

#### Surface Finishes



Grit Top

#### Colours



CUSTOM  
Any RAL Colour

### Sheet Size Options

| SKU       | Thickness<br>(mm) | Top Cover Thickness<br>(mm) | Panel Size<br>(mm) | Weight<br>(kg/sheet) |
|-----------|-------------------|-----------------------------|--------------------|----------------------|
| MG3828GT3 | 28                | 3                           | 1226 x 3665        | 80.0                 |
| MG3830GT5 | 30                | 5                           | 1226 x 3665        | 97.7                 |
| MG3833GT3 | 33                | 3                           | 1226 x 3665        | 90.3                 |
| MG3835GT5 | 35                | 5                           | 1226 x 3665        | 108.0                |
| MG3841GT3 | 41                | 3                           | 1226 x 3665        | 112.3                |
| MG3843GT5 | 43                | 5                           | 1226 x 3665        | 130.0                |

*\*Alternative sheet sizes & colours available upon request.  
(Contact GRP Australia for more details)*

## 7.0 MOULDED GRATING SELECTION GUIDE

### Reference Guide for Moulded Grating Profiles

The tables below are a quick reference guide for grating profile selection. The tables assume a maximum grating deflection of under 5mm for the stated UDL and point load. The reference loads used are from AS/ NZS 1170.1 2002 and consideration must be given to any additional loads which may be imposed. Only the most economical ( thinnest ) grating panels are listed. Thicker panels can be used for additional rigidity.

### Typical Domestic & Residential Applications General areas.

| UDL 2KPa, Point Load 1.8kN |                           |        |        |        |
|----------------------------|---------------------------|--------|--------|--------|
| Span                       | Suitable Grating Profiles |        |        |        |
| 450                        | MG1325                    | MG1925 | MG3825 | MG2630 |
| 600                        | MG1325                    | MG1925 | MG3825 | MG2630 |
| 900                        | MG1330                    | MG1930 | MG3830 | MG2630 |
| 1200                       | MG1338                    | MG1938 | MG3838 |        |

### Balconies & Roofs with Communal Access & Public Walking Tracks.

| UDL 4KPa, Point Load 1.8kN |   |        |        |        |
|----------------------------|---|--------|--------|--------|
| Span                       | Suitable Grating Profiles                       |        |        |        |
| 450                        | MG1325  | MG1925 | MG3825 | MG2630 |
| 600                        | MG1325  | MG1925 | MG3825 | MG2630 |
| 900                        | MG1330  | MG1930 | MG3830 | MG2630 |
| 1200                       | Contact GRP Australia for Alternative Solutions |        |        |        |

### Public Areas where people may Congregate including footpaths, landings & terraces subject to wheeled vehicles.

| UDL 5KPa, Point Load 4.5kN |   |        |        |        |
|----------------------------|---|--------|--------|--------|
| Span                       | Suitable Grating Profiles                       |        |        |        |
| 450                        | MG1325  | MG1925 | MG3825 | MG2630 |
| 600                        | MG1330  | MG1930 | MG3830 | MG2630 |
| 900                        | MG1338  | MG1938 | MG3838 |        |
| 1200                       | Contact GRP Australia for Alternative Solutions |        |        |        |

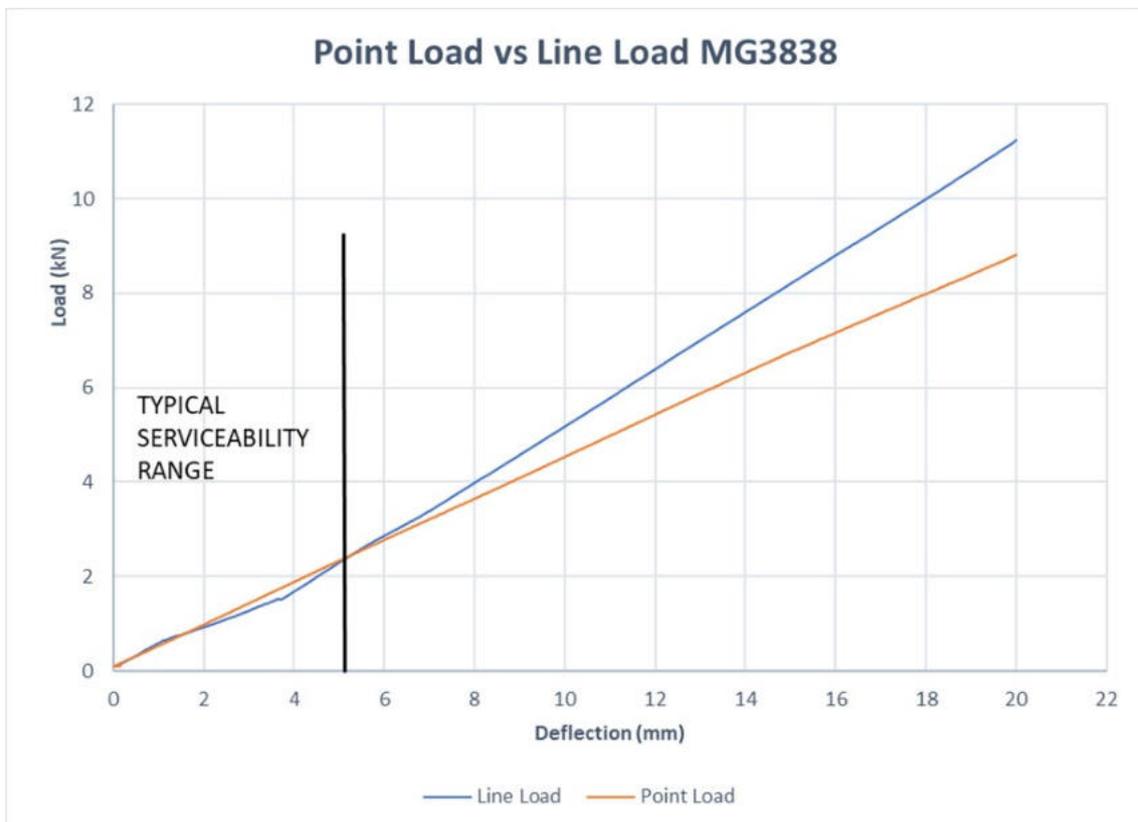
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### 8.0 POINT LOAD VS LINE LOAD

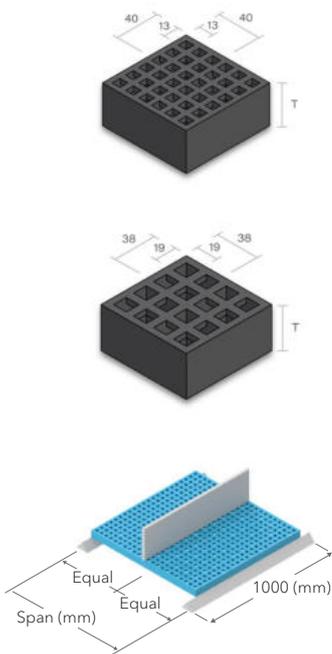
The following pages have tables that show how much different types and thicknesses of molded grating deflect under loads. These tables are based on two types of loads: a line load (measured in kN/m) and a Uniform Distributed Load (measured in kPa). Unlike steel grating, molded GRP grating has load bars that run in both directions. Because of this, when a line load is applied over one meter, it causes about the same amount of deflection as an equivalent point load within the range of 0 to 5mm deflection that's typically acceptable. This is shown in the graph below, where a meter-wide piece of MG3838 grating was tested with both a point load and a line load over a span of 900mm.



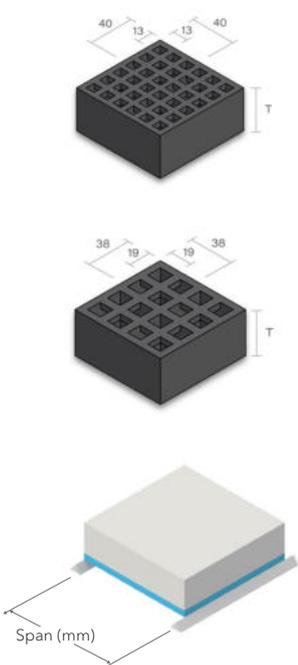
# 9.1 HEEL GUARD & MINI MESH

## Load Tables

Tables below are loading tables for both Heel Guard (13x13) & Mini Mesh (19x19) Moulded Grating. These tables are calculated using a line load and a Uniformly Distributed Load acting at the different span widths and the various thicknesses.



| Span | SKU    |        | THK. (mm) | Concentrated Line Load kN/m - Deflection in (mm) |      |      |      |      |     |      |     |
|------|--------|--------|-----------|--|------|------|------|------|-----|------|-----|
|      |        |        |           | 1.5  | 1.8  | 2.7  | 3.5  | 4.5  | 7   | 10   | 13  |
| 300  | MG1325 | MG1925 | 25        | <0.5   | <0.5 | <0.5 | 0.5  | 0.7  | 1.1 | 1.5  | 2.0 |
|      | MG1330 | MG1930 | 30        | <0.5   | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 0.9  | 1.1 |
| 450  | MG1325 | MG1925 | 25        | 0.8  | 0.9  | 1.4  | 1.8  | 2.3  | 3.6 | 5.2  | 6.7 |
|      | MG1330 | MG1930 | 30        | <0.5   | 0.5  | 0.8  | 1.0  | 1.3  | 2.1 | 3.0  | 3.9 |
|      | MG1338 | MG1938 | 38        | <0.5   | <0.5 | <0.5 | 0.5  | 0.7  | 1.1 | 1.5  | 2.0 |
|      | MG1325 | MG1925 | 25        | 1.8  | 2.2  | 3.3  | 4.3  | 5.5  | 8.6 | 12.3 |     |
|      | MG1330 | MG1930 | 30        | 1.1  | 1.3  | 1.9  | 2.5  | 3.2  | 4.9 | 7.0  | 9.1 |
|      | MG1338 | MG1938 | 38        | 0.5  | 0.6  | 1.0  | 1.2  | 1.6  | 2.5 | 3.6  | 4.6 |
| 900  | MG1325 | MG1925 | 25        | 6.2  | 7.5  | 11.2 |      |      |     |      |     |
|      | MG1330 | MG1930 | 30        | 3.6  | 4.3  | 6.4  | 8.3  | 10.7 |     |      |     |
|      | MG1338 | MG1938 | 38        | 1.8  | 2.2  | 3.2  | 4.2  | 5.4  | 8.4 | 12.0 |     |
|      | MG1325 | MG1925 | 25        | 14.7   |      |      |      |      |     |      |     |
|      | MG1330 | MG1930 | 30        | 8.4  | 10.1 |      |      |      |     |      |     |
|      | MG1338 | MG1938 | 38        | 4.3  | 5.1  | 7.7  | 10.0 | 12.8 |     |      |     |



| Span | SKU    |        | THK. (mm) | Uniform Distributed Load kPa - Deflection in (mm) |      |      |      |      |      |      |      |
|------|--------|--------|-----------|---|------|------|------|------|------|------|------|
|      |        |        |           | 1.5   | 2.5  | 3    | 5    | 7.5  | 10   | 15   | 20   |
| 300  | MG1325 | MG1925 | 25        | <0.5  | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6  |
|      | MG1330 | MG1930 | 30        | <0.5  | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 450  | MG1325 | MG1925 | 25        | <0.5  | <0.5 | <0.5 | 0.7  | 1.1  | 1.5  | 2.2  | 2.9  |
|      | MG1330 | MG1930 | 30        | <0.5  | <0.5 | <0.5 | <0.5 | 0.6  | 0.8  | 1.3  | 1.7  |
|      | MG1338 | MG1938 | 38        | <0.5  | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6  | 0.8  |
|      | MG1325 | MG1925 | 25        | 0.7   | 1.2  | 1.4  | 2.3  | 3.5  | 4.6  | 6.9  | 9.2  |
|      | MG1330 | MG1930 | 30        | <0.5  | 0.7  | 0.8  | 1.3  | 2.0  | 4.0  | 4.6  | 5.3  |
|      | MG1338 | MG1938 | 38        | <0.5  | <0.5 | <0.5 | 0.7  | 1.0  | 1.3  | 2.0  | 2.7  |
| 900  | MG1325 | MG1925 | 25        | 3.5   | 5.8  | 7.0  | 11.7 |      |      |      |      |
|      | MG1330 | MG1930 | 30        | 2.0   | 3.3  | 4.0  | 6.7  | 10.0 | 13.3 |      |      |
|      | MG1338 | MG1938 | 38        | 1.0   | 1.7  | 2.0  | 3.4  | 5.1  | 5.8  | 10.2 | 13.5 |
|      | MG1325 | MG1925 | 25        | 11.0  |      |      |      |      |      |      |      |
|      | MG1330 | MG1930 | 30        | 6.3   | 10.5 | 12.7 |      |      |      |      |      |
|      | MG1338 | MG1938 | 38        | 3.2   | 5.3  | 6.4  | 10.7 | 16.0 |      |      |      |

# MOULDED GRATING

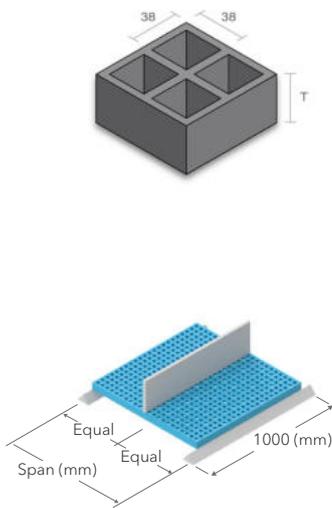
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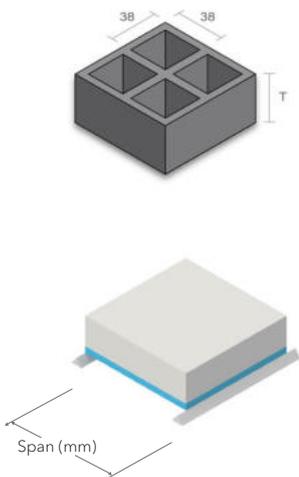
### 9.2 STANDARD

#### Load Tables

The tables below are loading tables for our standard 38x38 moulded grating. The two loading options are Uniformly Distributed Load and a point load approximately equal to the line load.



| Span | SKU    | THK. (mm) | Concentrated Line Load kN/m - Deflection in (mm) |      |      |      |      |      |      |      |
|------|--------|-----------|--|------|------|------|------|------|------|------|
|      |        |           | 1.5  | 1.8  | 2.7  | 3.5  | 4.5  | 7    | 10   | 13   |
| 300  | MG3820 | 20        | <0.5   | 0.6  | 0.9  | 1.1  | 1.5  | 2.3  | 3.2  | 4.2  |
| 450  | MG3820 | 20        | 1.6  | 2.0  | 3.0  | 3.8  | 4.9  | 7.7  | 10.9 |      |
|      | MG3825 | 25        | 0.7  | 0.8  | 1.2  | 1.6  | 2.0  | 3.1  | 4.4  | 5.8  |
|      | MG3830 | 30        | 0.5  | 0.6  | 1.0  | 1.3  | 1.6  | 2.5  | 3.6  | 4.7  |
| 600  | MG3820 | 20        | 3.9  | 4.7  | 7.0  | 9.1  | 11.7 |      |      |      |
|      | MG3825 | 25        | 1.6  | 1.9  | 2.8  | 3.7  | 4.7  | 7.4  | 10.5 |      |
|      | MG3830 | 30        | 1.3  | 1.5  | 2.3  | 3.0  | 3.8  | 6.0  | 8.5  | 11.1 |
|      | MG3838 | 38        | 0.7  | 0.8  | 1.2  | 1.6  | 2.1  | 3.2  | 4.6  | 6.0  |
| 900  | MG3825 | 25        | 5.3  | 6.4  | 9.6  | 12.4 |      |      |      |      |
|      | MG3830 | 30        | 4.3  | 5.2  | 7.8  | 10.1 | 13.0 | 20.2 |      |      |
|      | MG3838 | 38        | 2.3  | 2.8  | 4.2  | 5.5  | 7.0  | 10.9 | 15.6 |      |
|      | MG3850 | 50        | 0.6  | 0.7  | 1.1  | 1.4  | 1.8  | 2.8  | 4.0  | 5.2  |
| 1200 | MG3830 | 25        | 10.3   | 12.3 |      |      |      |      |      |      |
|      | MG3838 | 38        | 5.5  | 6.7  | 10.0 | 12.9 |      |      |      |      |
|      | MG3850 | 50        | 1.4  | 1.7  | 2.5  | 3.3  | 4.2  | 6.6  | 9.4  | 12.3 |

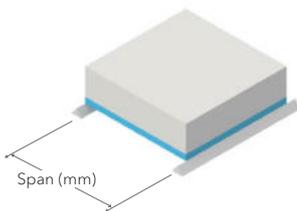
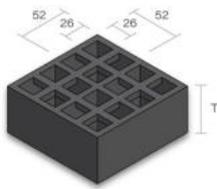
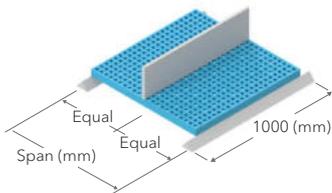
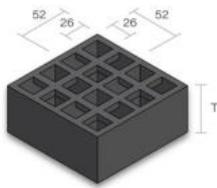


| Span | SKU    | THK. (mm) | Uniform Distributed Load kPa - Deflection in (mm) |      |      |      |      |      |      |      |
|------|--------|-----------|---|------|------|------|------|------|------|------|
|      |        |           | 1.5   | 2.5  | 3    | 5    | 7.5  | 10   | 15   | 20   |
| 300  | MG3820 | 20        | <0.5  | <0.5 | <0.5 | <0.5 | <0.5 | 2.3  | 3.2  | 4.2  |
| 450  | MG3820 | 20        | <0.5  | 0.8  | 0.9  | 1.5  | 2.3  | 3.1  | 4.6  | 6.1  |
|      | MG3825 | 25        | <0.5  | <0.5 | <0.5 | 0.6  | 0.9  | 1.2  | 1.9  | 2.5  |
|      | MG3830 | 30        | <0.5  | <0.5 | <0.5 | 0.5  | 0.8  | 1.0  | 1.5  | 2.0  |
| 600  | MG3820 | 20        | 1.5   | 2.4  | 2.9  | 4.9  | 7.3  | 9.7  |      |      |
|      | MG3825 | 25        | 0.6   | 1.0  | 1.2  | 2.0  | 3.0  | 3.9  | 5.9  | 7.9  |
|      | MG3830 | 30        | <0.5  | 0.8  | 1.0  | 1.6  | 2.4  | 3.2  | 4.8  | 6.4  |
|      | MG3838 | 38        | <0.5  | <0.5 | 0.5  | 0.9  | 1.3  | 1.7  | 2.6  | 3.5  |
| 900  | MG3825 | 25        | 7.4   | 12.3 | 14.8 | 24.6 |      |      |      |      |
|      | MG3830 | 30        | 2.4   | 4.1  | 4.9  | 8.1  | 12.2 | 16.2 |      |      |
|      | MG3838 | 38        | 1.3   | 2.2  | 2.6  | 4.4  | 6.6  | 8.8  | 13.2 |      |
|      | MG3850 | 50        | <0.5  | 0.6  | 0.7  | 1.1  | 1.7  | 2.2  | 3.4  | 4.5  |
| 1200 | MG3830 | 30        | 7.7   | 12.8 |      |      |      |      |      |      |
|      | MG3838 | 38        | 4.2   | 6.9  | 8.3  | 13.9 |      |      |      |      |
|      | MG3850 | 50        | 1.1   | 1.8  | 2.1  | 3.5  | 5.3  | 7.1  | 10.6 | 14.2 |

## 9.3 AGRI MESH

### Load Tables

Tables below are loading tables for 26x26 moulded grating. These tables are calculated using a line load and a Uniformly Distributed Load acting at the different span widths and the various thicknesses.



Concentrated Line Load kN/m - Deflection in (mm)

| Span | SKU    | THK. (mm) | 1.5  | 1.8  | 2.7  | 3.5  | 4.5  | 7   | 10  | Ultimate Load KN/m |
|------|--------|-----------|------|------|------|------|------|-----|-----|--------------------|
| 300  | MG2630 | 30        | <0.5 | <0.5 | <0.5 | 0.5  | 0.7  | 1.1 | 1.5 |                    |
| 450  | MG2630 | 30        | 0.5  | 0.6  | 1.0  | 1.3  | 1.6  | 2.5 | 3.6 |                    |
| 600  | MG2630 | 30        | 3.9  | 4.7  | 7.0  | 9.1  | 11.7 |     |     |                    |
| 900  | MG2630 | 30        | 5.3  | 6.4  | 9.6  | 12.4 |      |     |     | 24.9               |
| 1200 | MG2630 | 30        | 14.4 |      |      |      |      |     |     |                    |

Uniform Distributed Load kN/m<sup>2</sup> - Deflection in (mm)

| Span | SKU    | THK. (mm) | 1.5  | 2.5  | 3    | 5    | 7.5  | 10   | 15   |
|------|--------|-----------|------|------|------|------|------|------|------|
| 300  | MG2630 | 30        | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 450  | MG2630 | 30        | <0.5 | <0.5 | <0.5 | 0.7  | 1.1  | 1.4  | 2.1  |
| 600  | MG2630 | 30        | 0.7  | 1.1  | 1.4  | 2.3  | 3.4  | 4.5  | 6.8  |
| 900  | MG2630 | 30        | 3.4  | 5.7  | 6.9  | 11.4 |      |      |      |
| 1200 | MG2630 | 30        | 10.8 |      |      |      |      |      |      |

# MOULDED GRATING

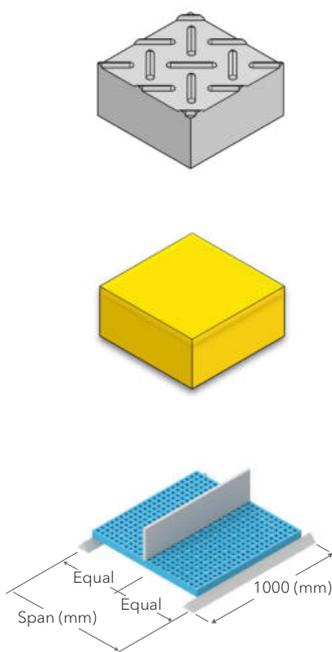
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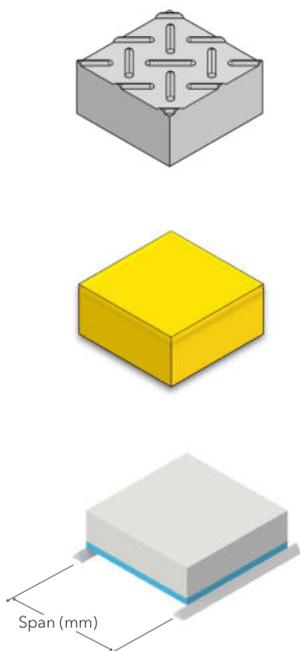
### 9.4 SOLID TOP MOULDED GRATING

#### Load Tables

Solid Top Moulded Grating (GT3 and DP3). Top grid 38x38 with 3mm solid top. Various grating thickness as noted. For square mesh grating, point load is approximately equal to line load.

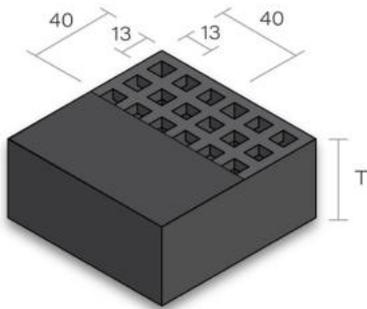


| Span | SKU       | THK. (mm) | Concentrated Line Load kN/m - Deflection in (mm) |      |      |      |      |     |     |      |
|------|-----------|-----------|--|------|------|------|------|-----|-----|------|
|      |           |           | 1.5  | 1.8  | 2.7  | 3.5  | 4.5  | 7   | 10  | 13   |
| 450  | MG3828GT3 | 28        | <0.5   | 0.5  | 0.8  | 1.1  | 1.4  | 2.1 | 3.0 | 3.9  |
|      | MG3833GT3 | 33        | <0.5   | <0.5 | <0.5 | 0.6  | 0.8  | 1.2 | 1.8 | 2.3  |
|      | MG3841GT3 | 41        | <0.5   | <0.5 | <0.5 | <0.5 | <0.5 | 0.7 | 1.0 | 1.3  |
| 600  | MG3828GT3 | 28        | 1.1  | 1.3  | 1.9  | 2.5  | 3.2  | 5.0 | 7.1 |      |
|      | MG3833GT3 | 33        | 0.6  | 0.8  | 1.1  | 1.5  | 1.9  | 2.9 | 4.2 | 5.5  |
|      | MG3841GT3 | 41        | <0.5   | <0.5 | 0.6  | 0.8  | 1.0  | 1.6 | 2.3 | 3.0  |
| 900  | MG3828GT3 | 28        | 3.6  | 4.3  | 6.5  | 8.4  | 10.8 |     |     |      |
|      | MG3833GT3 | 33        | 2.1  | 2.6  | 3.8  | 5.0  | 6.4  |     |     |      |
|      | MG3841GT3 | 41        | 1.2  | 1.4  | 2.1  | 2.7  | 3.5  | 5.5 | 7.8 | 10.2 |
| 1200 | MG3828GT3 | 28        | 8.6  | 10.3 |      |      |      |     |     |      |
|      | MG3833GT3 | 33        | 5.0  | 6.1  | 9.1  | 11.8 |      |     |     |      |
|      | MG3841GT3 | 41        | 2.8  | 3.3  | 5.0  | 6.5  | 8.3  |     |     |      |



| Span | SKU       | THK. (mm) | Uniform Distributed Load kPa- Deflection in (mm) |      |      |      |      |      |      |      |
|------|-----------|-----------|--|------|------|------|------|------|------|------|
|      |           |           | 1.5  | 2.5  | 3    | 5    | 7.5  | 10   | 15   | 20   |
| 450  | MG3828GT3 | 28        | <0.5   | <0.5 | <0.5 | <0.5 | 0.6  | 0.8  | 1.3  | 1.7  |
|      | MG3833GT3 | 33        | <0.5   | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.7  | 1.0  |
|      | MG3841GT3 | 41        | <0.5   | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 600  | MG3828GT3 | 28        | <0.5   | 0.7  | 0.8  | 1.3  | 2.0  | 2.7  | 4.0  | 5.4  |
|      | MG3833GT3 | 33        | <0.5   | <0.5 | <0.5 | 0.8  | 1.2  | 1.6  | 2.4  | 3.2  |
|      | MG3841GT3 | 41        | <0.5   | 0.8  | <0.5 | <0.5 | 0.7  | 0.9  | 1.3  | 1.7  |
| 900  | MG3828GT3 | 28        | 2.0  | 3.4  | 4.1  | 6.8  | 10.2 | 13.6 |      |      |
|      | MG3833GT3 | 33        | 1.2  | 2.0  | 2.4  | 4.0  | 6.0  | 8.0  | 12.0 |      |
|      | MG3841GT3 | 41        | 0.7  | 1.1  | 1.3  | 2.2  | 3.3  | 4.4  | 6.6  | 8.8  |
| 1200 | MG3828GT3 | 28        | 6.4  | 10.7 | 12.9 |      |      |      |      |      |
|      | MG3833GT3 | 33        | 3.8  | 6.3  | 7.6  | 12.6 |      |      |      |      |
|      | MG3841GT3 | 41        | 2.1  | 3.5  | 4.2  | 6.9  | 10.4 | 10.4 | 13.9 |      |

## 10.1 STAIR TREADS | 13x13 / 40x40



Heel Guard Stair Treads are perfect for commercial and residential applications, including outdoor patios, pool areas, and walkways, where slip resistance and safety are essential. Its lightweight, corrosion-resistant design ensures durability and low maintenance, making it an ideal choice for enhancing safety in high-traffic areas around homes, parks, and retail spaces.

**Hole Aperture: 8mm | Open Area: 30%**

### Surface Finishes



Glass Beaded

### Standard Colours



RAL7021  
Black Grey

Black Grey Nosing



RAL9006  
Light Grey

Light Grey Nosing

### Tread Size Options

| SKU    | Thickness<br>(mm) | Bar Size<br>(mm) | Tread Size<br>(mm) | Weight<br>(kg/tread) |
|--------|-------------------|------------------|--------------------|----------------------|
| ST1338 | 38                | 6.5/5.0          | 287 x 3687         | 25.5                 |

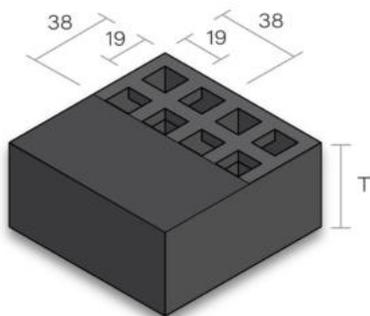
*\*Alternative sheet sizes, colours & surface finishes available upon request.  
(Contact GRP Australia for more details)*

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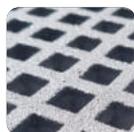
### 10.2 STAIR TREADS | 19x19 / 38x38



Minimesh Stair Treads are an ideal solution for commercial and marine applications such as boardwalks, pontoons, and marina walkways, where exposure to water and harsh environmental conditions demands durability and slip resistance. Its lightweight yet robust design provides a safe, low-maintenance surface that withstands constant foot traffic, saltwater corrosion, and varying weather conditions.

**Hole Aperture: 13mm | Open Area: 40%**

#### Surface Finishes



Fine Grit

#### Standard Colours



**RAL7021**  
Black Grey

Black Grey  
Nosing



**RAL9006**  
Light Grey

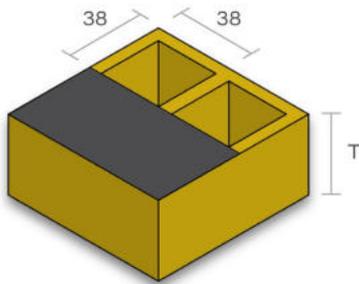
Light Grey  
Nosing

#### Tread Size Options

| SKU    | Thickness | Bar Size | Tread Size | Weight     |
|--------|-----------|----------|------------|------------|
|        | (mm)      | (mm)     | (mm)       | (kg/tread) |
| ST1938 | 38        | 6.5/5.0  | 275 x 1188 | 7.7        |
|        |           | 6.5/5.0  | 275 x 3665 | 24         |

\*Alternative sheet sizes, colours & surface finishes available upon request.  
(Contact GRP Australia for more details)

## 10.3 STAIR TREADS | 38x38



Standard Stair Treads are a durable, corrosion-resistant solution commonly used in harsh industrial environments, including wastewater treatment plants, chemical processing facilities, and offshore platforms. Its lightweight yet strong design makes it ideal for walkways, stair treads, platforms, and drainage covers where safety, slip resistance, and longevity are essential.

**Hole Aperture: 33mm | Open Area: 49-78%**

### Surface Finishes



Standard Grit

### Standard Colours



Yellow Nosing



Black Grey Nosing



Yellow Nosing

### Tread Size Options

| SKU    | Thickness<br>(mm) | Bar Size<br>(mm) | Tread Size<br>(mm) | Weight<br>(kg/tread) |
|--------|-------------------|------------------|--------------------|----------------------|
| ST3838 | 38                | 6.5/5.0          | 285 x 3665         | 20                   |

*\*Alternative sheet sizes, colours & surface finishes available upon request. (Contact GRP Australia for more details)*

# MOULDED GRATING

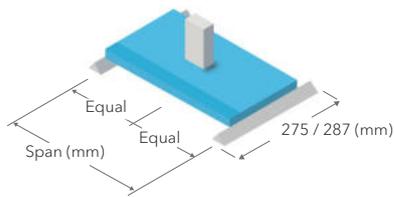
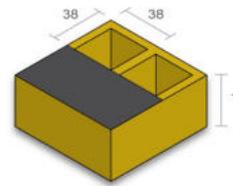
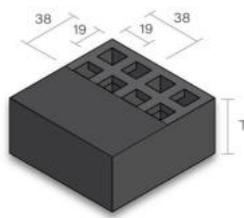
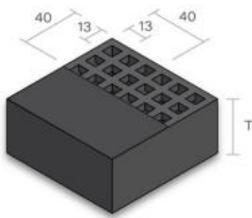
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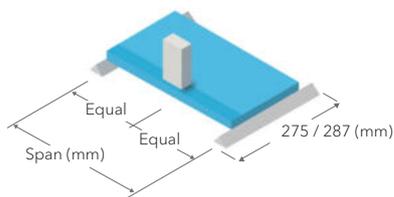
### 11.0 STAIR TREADS

#### Load Tables

Tables below are loading tables for both Mini Mesh (19x19) and Heel Guard (13x13). These tables are calculated using a line load and a Uniformly Distributed Load acting at the different span widths and the various thicknesses.



|      |        |                 |                  | Centre Loading kN - Deflection in (mm) |
|------|--------|-----------------|------------------|--|
| Span | SKU    | TREAD THK. (mm) | TREAD WIDTH (mm) | 1.5                                    |
| 600  | ST1338 | 38              | 287              | 2.3                                    |
|      | ST1938 | 38              | 275              | 1.8                                    |
|      | ST3838 | 38              | 275              | 2.1                                    |
| 800  | ST1338 | 38              | 287              | 5.4                                    |
|      | ST1938 | 38              | 275              | 4.3                                    |
|      | ST3838 | 38              | 275              | 4.9                                    |
| 1000 | ST1338 | 38              | 287              | 10.5                                   |
|      | ST1938 | 38              | 275              | 8.4                                    |
|      | ST3838 | 38              | 275              | 9.5                                    |



|      |        |                 |                  | Edge Loading kN - Deflection in (mm) |
|------|--------|-----------------|------------------|--------------------------------------|
| Span | SKU    | TREAD THK. (mm) | TREAD WIDTH (mm) | 1.5                                  |
| 600  | ST1338 | 38              | 287              | 2.8                                  |
|      | ST1938 | 38              | 275              | 2.1                                  |
|      | ST3838 | 38              | 275              | 2.5                                  |
| 800  | ST1338 | 38              | 287              | 9.3                                  |
|      | ST1938 | 38              | 275              | 7.1                                  |
|      | ST3838 | 38              | 275              | 8.4                                  |
| 1000 | ST1338 | 38              | 287              | 12.8                                 |
|      | ST1938 | 38              | 275              | 9.8                                  |
|      | ST3838 | 38              | 275              | 11.5                                 |

## 12.1 CLIPS | M CLIP



M - Clips are used to fix moulded grating panels directly into joist sub-structures. Recommend 4 x clips per square metre & pair with an appropriate bolt/screw



### M Clip Technical Details

| SKU    | Depth<br>(mm) | Grating Type   | Suitable Grating Thickness<br>(mm) | Material |
|--------|---------------|----------------|------------------------------------|----------|
| CM1920 | 20            | 19x19 Minimesh | All Thicknesses                    | 316ss    |
| CM2620 | 20            | 26x26 Agrimesh | All Thicknesses                    | 316ss    |
| CM3813 | 13            | 38x38 Standard | 15mm thick                         | 316ss    |
| CM3820 | 20            | 38x38 Standard | 25mm thick & 30mm thick            | 316ss    |
| CM3838 | 38            | 38x38 Standard | 38mm thick                         | 316ss    |
| CM3850 | 50            | 38x38 Standard | 50mm thick                         | 316ss    |
| CM5013 | 13            | 50x50 Standard | 25mm thick                         | 316ss    |

# MOULDED GRATING

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### 12.2 CLIPS | C CLIP



C - Clips are used to connect moulded grating panels together. 600mm - 700mm is the recommended spacing between C Clips. M6 Bolt included with each C Clip.



#### C Clip Technical Details

| SKU    | Thickness<br>(mm) | Grating Type   | Suitable Grating Thickness<br>(mm) | Material |
|--------|-------------------|----------------|------------------------------------|----------|
| CC3815 | 15                | 38x38 Standard | 15mm thick                         | 316ss    |
| CC3825 | 25                | 38x38 Standard | 25mm thick                         | 316ss    |
| CC3838 | 38                | 38x38 Standard | 38mm thick                         | 316ss    |

## 12.3 CLIPS | J CLIP



J - Clips are used to fix moulded grating panels joist sub-structures as a clamping system. Recommend 4 x clips per square metre & pairs with M Clip or CR24-8-CS washer depending on the grating type. J Clips require a suitable M8 Bolt, M8 Spring Washer & M8 Square Nut to clamp to Moulded Grating.



### J Clip Technical Details

| SKU    | Thickness<br>(mm) | Grating Type     | Paired Components | Suitable Grating Thickness<br>(mm) | Material |
|--------|-------------------|------------------|-------------------|------------------------------------|----------|
| CJ3838 | 38                | 38x38 Standard   | M Clip            | All Thicknesses                    | 316ss    |
| CJ3838 | 38                | 19x19 Minimesh   | CR24-8-CS Washer  | All Thicknesses                    | 316ss    |
| CJ3838 | 38                | 13x13 Heel Guard | CR24-8-CS Washer  | All Thicknesses                    | 316ss    |

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### 12.4 CLIPS | L CLIP



L - Clips are used to fix moulded grating panels directly into joist sub-structures. Recommend 4 x clips per square metre & pair with an appropriate bolt/screw



#### L Clip Technical Details

| SKU    | Thickness | Grating Type   | Suitable Grating Thickness | Material |
|--------|-----------|----------------|----------------------------|----------|
|        | (mm)      |                | (mm)                       |          |
| CL3825 | 25        | 38x38 Standard | 25mm thick                 | 316ss    |

## 12.5 RECESSED WASHERS

Recessed Washers are used to fix moulded grating panels directly into joist sub-structures. Recommend 4 x Recessed Washer per square metre & pair with an appropriate bolt/screw.



### Recessed Washer Technical Details

| SKU       | Diameter<br>(mm) | Grating Type                      | Suitable Grating Thickness<br>(mm) | Material |
|-----------|------------------|-----------------------------------|------------------------------------|----------|
| CR24-ST-6 | 24               | 13x13 Heel Guard & 19x19 Minimesh | All Thicknesses                    | 316ss    |
| CR24-CS-8 | 24               | 13x13 Heel Guard & 19x19 Minimesh | All Thicknesses                    | 316ss    |
| CR45      | 45               | 38x38 Standard                    | All Thicknesses                    | 316ss    |

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### 13.0 RECOMMENDED FIXINGS

When selecting appropriate fixings for FRP (Fiber Reinforced Plastic) moulded grating, it's crucial to consider the specific application & environment in which the grating will be installed. Here are a selection of fixings that are commonly used for securing FRP moulded grating:

**Cx6 SPAX**  
Screw



60 | 80mm  
Grade: A2

- Timber
- Metal
- FRP

**Cx8 SPAX**  
Screw



60mm  
Grade: A2

- Timber
- Metal
- FRP

**8Gx65**  
Timber Screw



65mm  
Grade: 316ss

- Timber
- Metal
- FRP

**M6-11**  
Buildex Screw



50mm  
Grade: G550

- Timber
- Metal
- FRP

**M6**  
Button Soc Bolt



20 | 30 | 40mm  
Grade: 316ss

- Timber
- Metal
- FRP

**8Gx35**  
Screw



35mm  
Grade: G550

- Timber
- Metal
- FRP

**10Gx50**  
Screw



50mm  
Grade: G550

- Timber
- Metal
- FRP

**M8x40**  
Soc Cap Bolt



40mm  
316ss

- Timber
- Metal
- FRP

**M8x80**  
CSK Bolt



80mm  
316ss

- Timber
- Metal
- FRP

**14G**  
Bugle Batten



50 | 75mm  
316ss

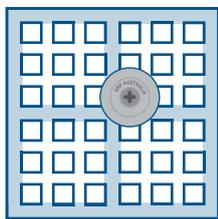
- Timber
- Metal
- FRP

## 14.0 RECOMMENDED FIXING LAYOUT

The fixing layout for moulded grating is crucial to ensure structural integrity, safety, and performance in various industrial and commercial applications. Below are typical examples for each grating type in a standard sheet size.

### 13x13 Heel Guard

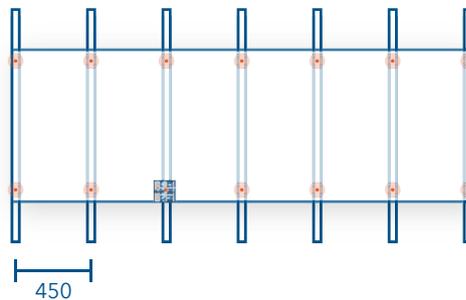
Rest fixing against Moulded Grating Major Bar



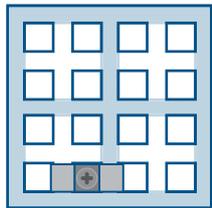
eg. CR24-8-ST

### Typical Joist Layout | 1007 x 3007

12-14 Fixings per standard sheet  
(Max spacing of 1000mm)



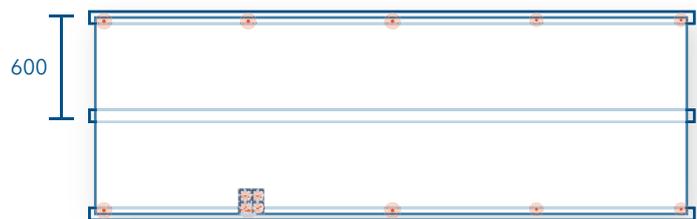
### 19x19 Mini Mesh



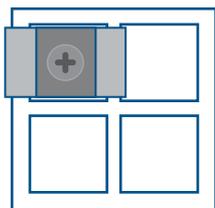
eg. CM1920

### Typical Joist Layout | 1226 x 3665

10-12 Fixings per standard sheet  
(Max spacing of 1000mm)



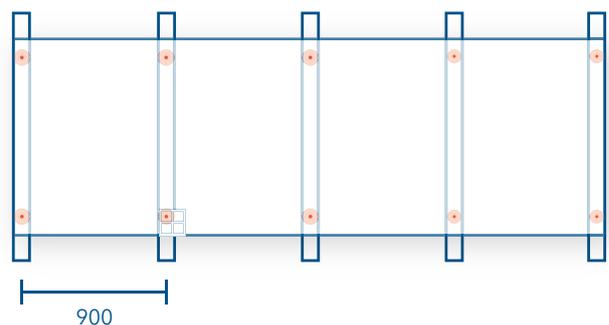
### 38x38 Standard



eg. CM3838

### Typical Joist Layout | 1226 x 3665

10-12 Fixings per standard sheet  
(Max spacing of 1000mm)

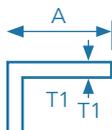


# MOULDED GRATING

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### 15.1 ACCESSORIES | STAIR NOSING



Separate stair nosing with grit provides enhanced safety and durability, ensuring slip-resistant performance for high-traffic stairways.

#### Standard Stock Length



#### Surface Finish



Fine Grit

#### Colours



Signal Yellow  
Front



Signal Black  
Front



Signal Black  
Front

#### Profile Options

Non-Stocked item (MOQ of 100 lineal metres + 10-12 week lead time)

| Profile | Type         | Dimension (mm)  | Weight (kg/m) |
|---------|--------------|-----------------|---------------|
|         | Stair Nosing | A x B x T1 x T2 |               |
| SN      | SN70x30x3.2  | 70x30x3.2       | 0.29          |

## 15.2 ACCESSORIES | FLAT STRIP



Flat strips are used in various applications, including reinforcement, framing, and bracing, for their flexibility, ease of installation, and ability to provide structural support and alignment.



### Standard Stock Length



### Surface Finish



Fine Grit

### Colours



IFR25



IFR25

### Profile Options

Non-Stocked item (MOQ of 100 lineal metres + 10-12 week lead time)

| Profile | Type                    | Dimension (mm)  | Weight (kg/m) |
|---------|-------------------------|-----------------|---------------|
|         | Flat Strip Grit Surface | A x B x T1 x T2 |               |
| FSC     | FSC50x3.2               | 50 x 3.2        | 0.29          |

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### 15.3 ACCESSORIES | PEDESTALS



Adjustable pedestals for FRP moulded grating provide a versatile support solution, allowing for precise height adjustments to ensure level and stable installations on uneven surfaces. These pedestals enhance the functionality and flexibility of FRP grating systems in various industrial and commercial application.



#### Adjustable Height Range

Accommodates various elevations, perfect for applications with uneven substructures or specific design requirements.



#### Robust Load Capacity

Ultimate Compression Strength | 15kN  
Design Compression Strength | 11kN



#### Sustainable & Eco-Friendly

Manufactured using recycled polypropylene. Its design facilitates efficient water drainage & air circulation.



#### Weather Resistant

Designed to ensure extreme temperatures, UV rays & moisture.



#### Customizable Accessories

Options include; slope correctors, spacer tabs & bearer holders.  
\*Available upon request

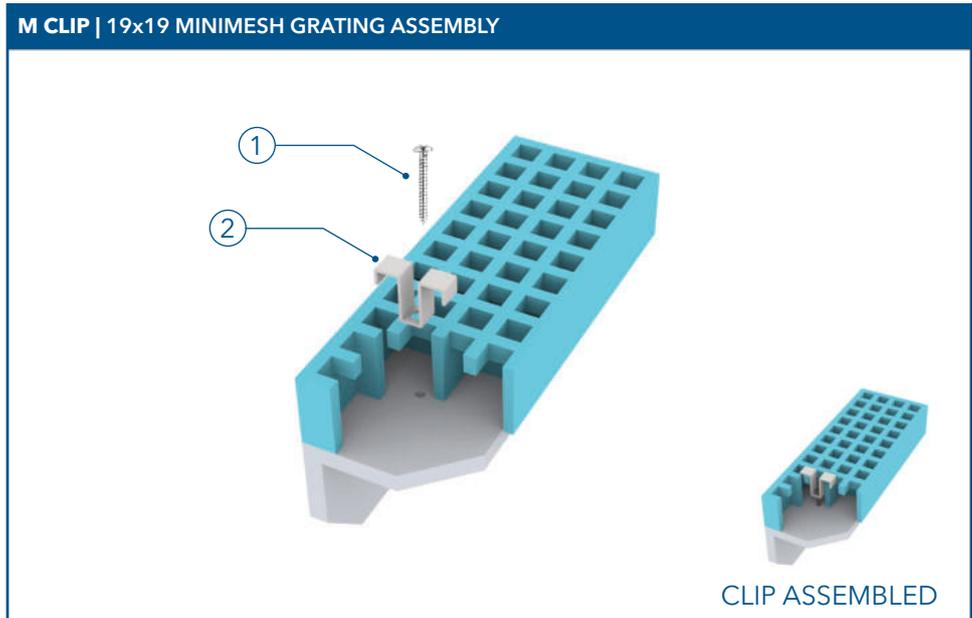
### Adjustable Pedestal Options

| SKU   | Height Range<br>(mm) | MOQ |
|-------|----------------------|-----|
| GP50  | 50 - 75              | 46  |
| GP74  | 74 - 117             | 34  |
| GP117 | 117 - 201            | 20  |
| GP197 | 197 - 281            | 12  |
| GP277 | 277 - 446            | 6   |

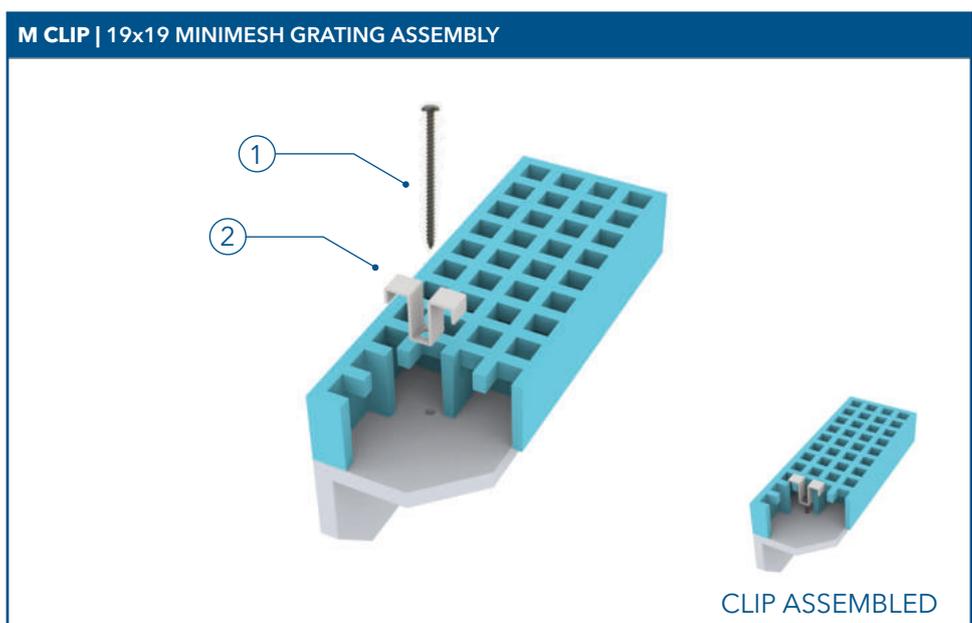
## 16.1 M CLIPS | INSTALLATION

M-Clips are designed to secure FRP Moulded Grating to the supporting structure, ensuring stability, safety, and long-term durability. These clips prevent lateral movement and uplift, making them essential for applications in industrial, marine, and chemical environments. The details below illustrates standard installation methods that can be applied to moulded grating. Clip and fastening selections should be made according to the substrate material in use.

### Fasteners



### Fasteners



# MOULDED GRATING

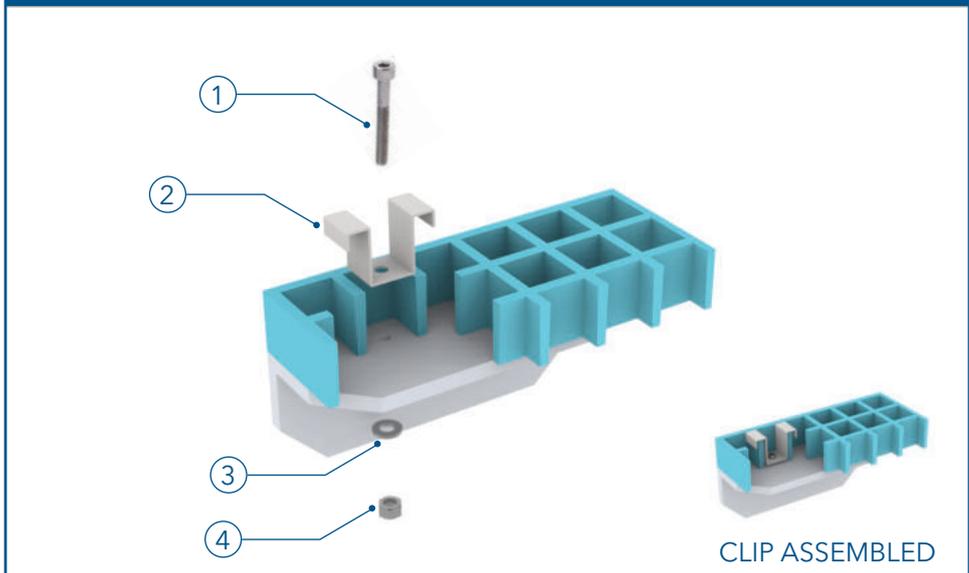
## PRODUCT GUIDE

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### Fasteners



### M CLIP | 38x38 STANDARD GRATING ASSEMBLY

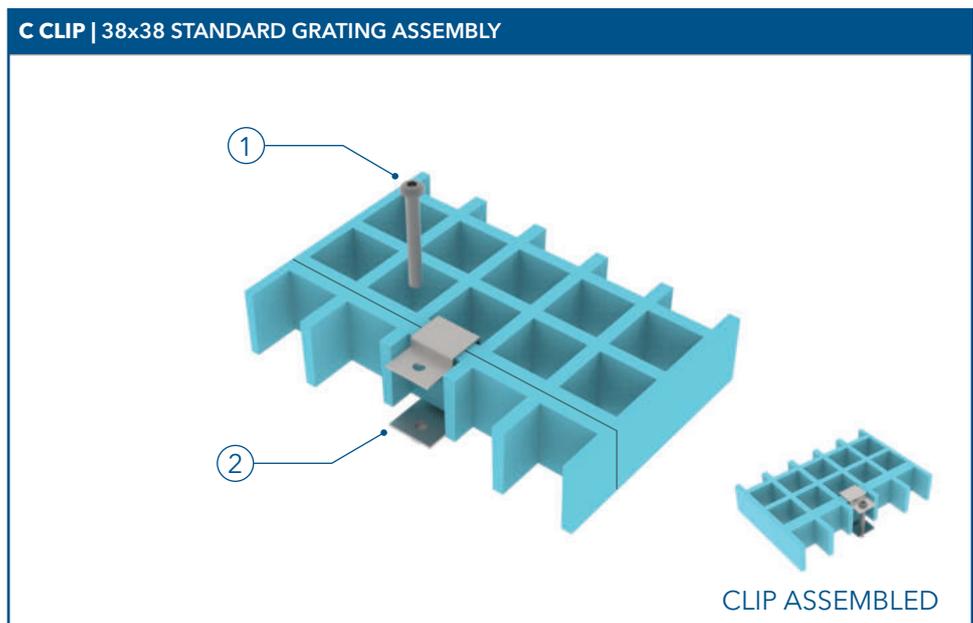


Please note the above illustrations are simply a guide that show one example of how each clip can be installed. Clips can be paired with several types of grating and fasteners. Select the most appropriate method according to design.

## 16.2 C CLIPS | INSTALLATION

C-Clips are designed to secure adjacent FRP Moulded Grating panels together, preventing movement and creating a stable walking surface. These clips are essential for ensuring proper grating alignment and maintaining structural integrity in industrial, marine, and chemical environments. The details below illustrates standard installation methods that can be applied to moulded grating. Clip and fastening selections should be made according to the substrate material in use.

### Fasteners



Please note the above illustrations are simply a guide that show one example of how each clip can be installed. Clips can be paired with several types of grating and fasteners. Select the most appropriate method according to design.

# MOULDED GRATING

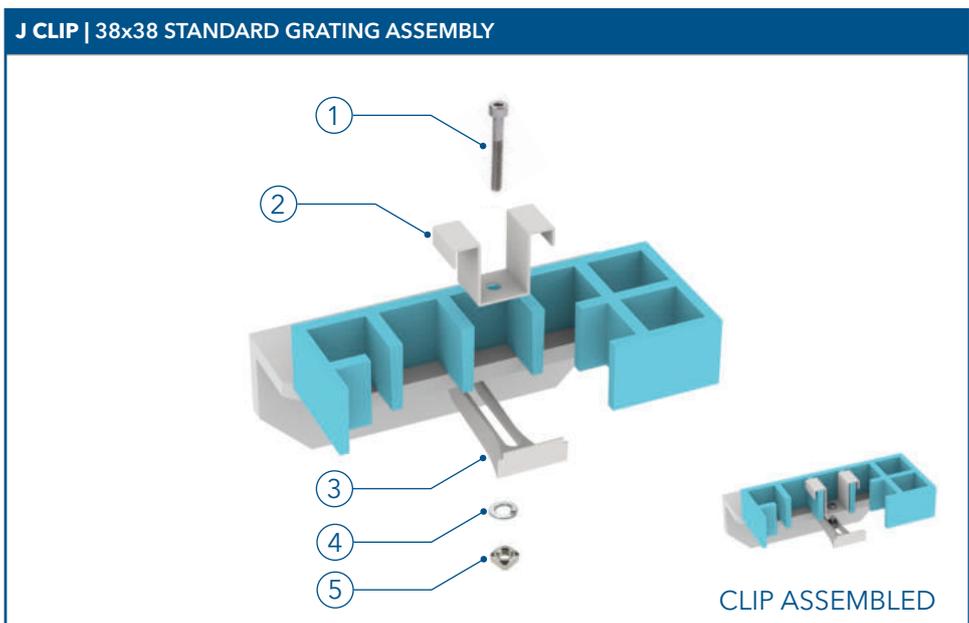
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### 16.3 J CLIPS | INSTALLATION

J-Clips are designed to secure FRP Moulded Grating to the supporting structure by gripping the underside of the grating bars. These clips help prevent grating uplift and ensure stability, making them ideal for industrial, marine, and corrosive environments. The details below illustrates standard installation methods that can be applied to moulded grating. Clip and fastening selections should be made according to the substrate material in use.

#### Fasteners



Please note the above illustrations are simply a guide that show one example of how each clip can be installed. Clips can be paired with several types of grating and fasteners. Select the most appropriate method according to design.

#### 13x13 Heel Guard & 19x19 Mini Mesh

The installation process for J-Clips is the same when working with both 13x13 and 19x19 Moulded Grating. The only adjustment required is swapping the standard fasteners for an M8 Countersunk Bolt paired with a CR24-8-CS Washer.

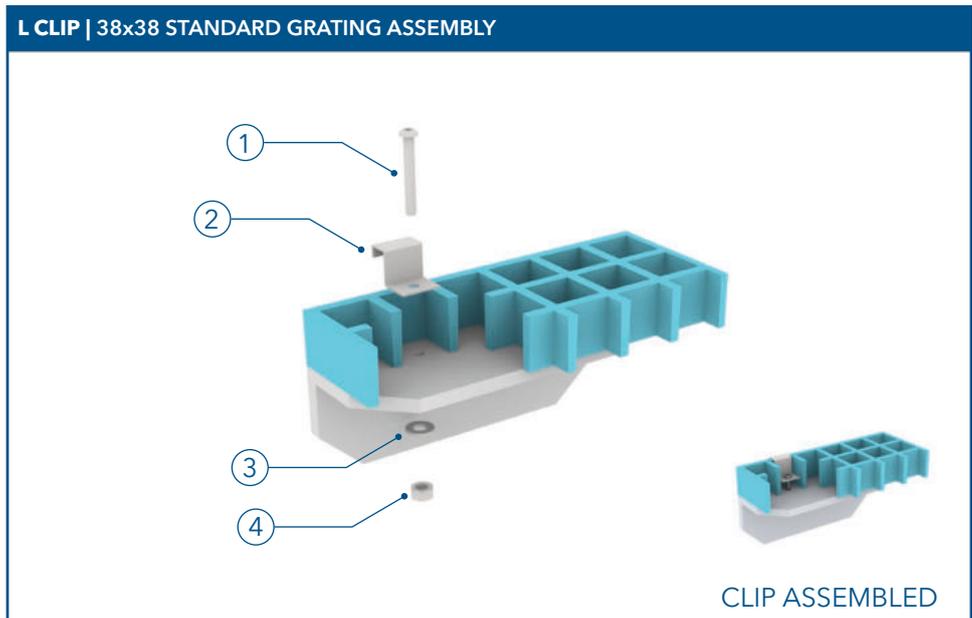
*Note: When installing into 13x13 Moulded Grating, you may need to drill out the hole slightly due to the gritted surface to properly fit the M8 bolt.*



## 16.4 L CLIPS | INSTALLATION

L-Clips are designed to fasten FRP Moulded Grating to its supporting structure, preventing lateral movement while allowing for easy removal and maintenance. These clips are commonly used in applications where frequent access to the underlying structure is required. The details below illustrates standard installation methods that can be applied to moulded grating. Clip and fastening selections should be made according to the substrate material in use.

### Fasteners



Please note the above illustrations are simply a guide that show one example of how each clip can be installed. Clips can be paired with several types of grating and fasteners. Select the most appropriate method according to design.

# MOULDED GRATING

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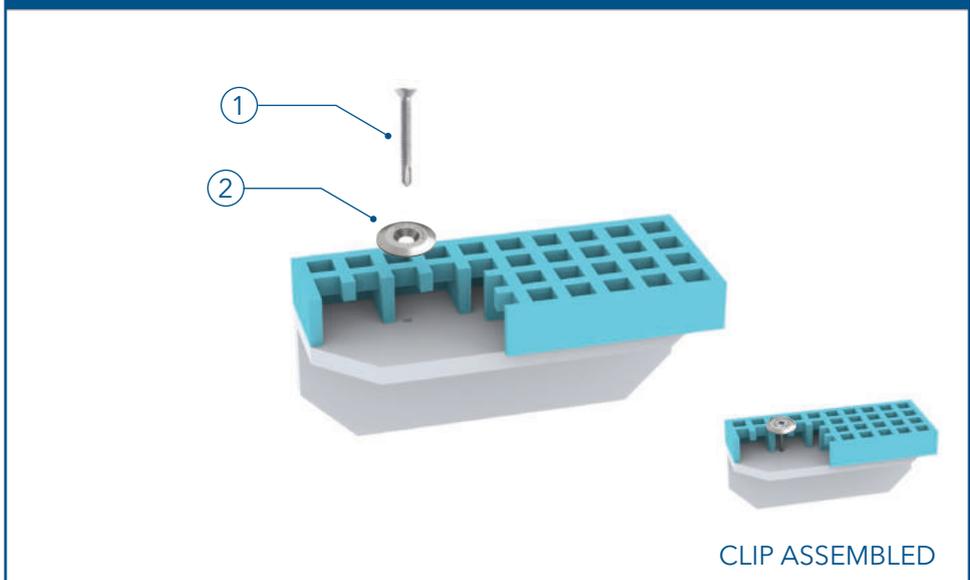
### 16.5 RECESSED WASHERS | INSTALLATION

Recessed Washers are used to secure FRP Moulded Grating while allowing for a flush and smooth surface, reducing trip hazards and improving aesthetics. These washers help distribute the load of the fastener evenly, preventing damage to the grating structure. The details below illustrates standard installation methods that can be applied to moulded grating. Clip and fastening selections should be made according to the substrate material in use.

#### Fasteners



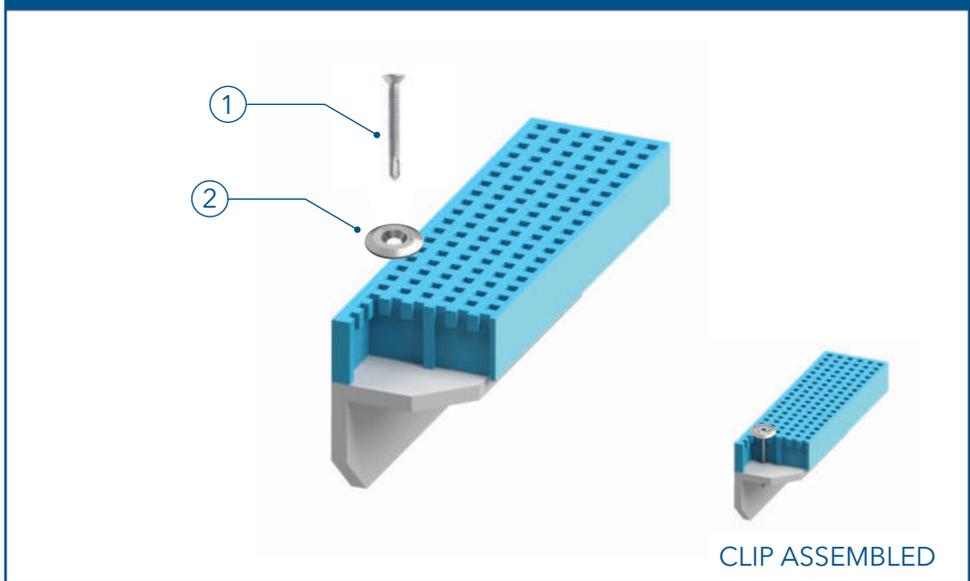
#### RECESSED WASHER | 19x19 MINIMESH GRATING ASSEMBLY



#### Fasteners



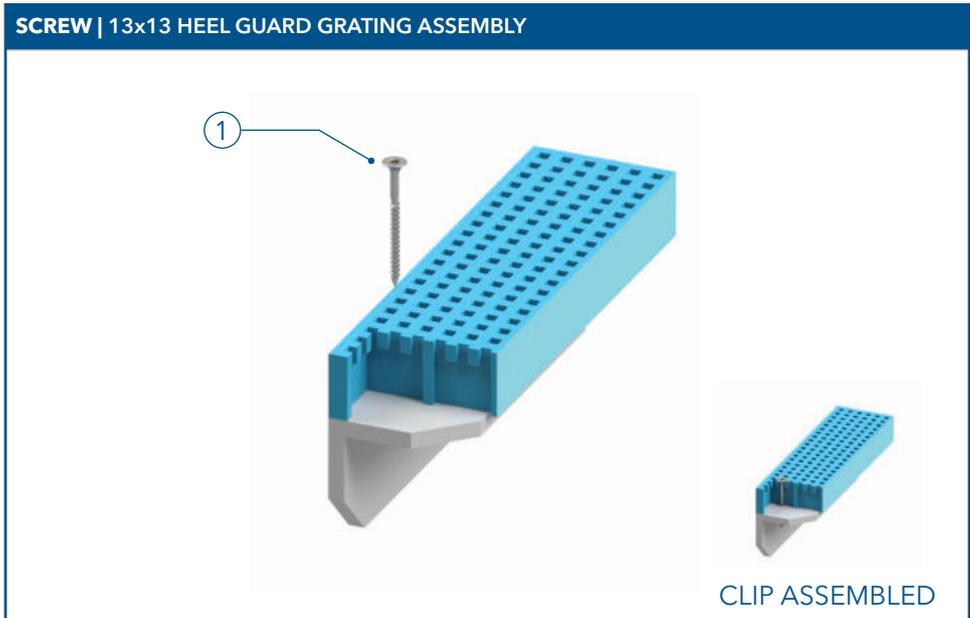
#### RECESSED WASHER | 13x13 HEEL GUARD GRATING ASSEMBLY



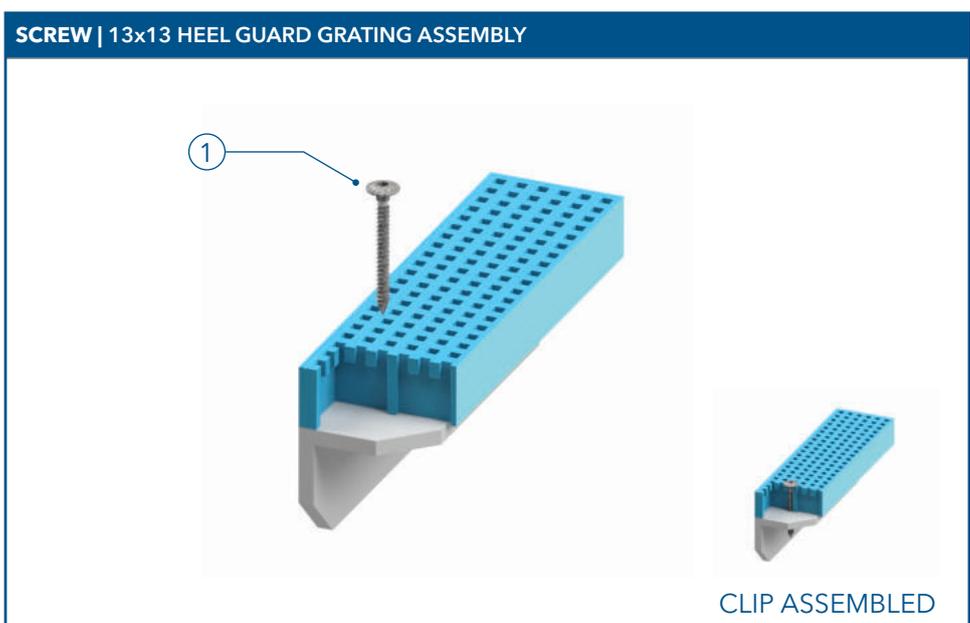
## 16.1 WASHER HEAD SCREW | INSTALLATION

Washer Head Screws are designed to securely fasten FRP Moulded Grating to the supporting structure while distributing load evenly. The built-in washer head helps prevent pull-through, reducing stress on the grating and ensuring a stable installation. The details below illustrates standard installation methods that can be applied to moulded grating. Clip and fastening selections should be made according to the substrate material in use.

### Fasteners



### Fasteners



# MOULDED GRATING

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### 17.0 CHEMICAL RESISTANCE GUIDE

FRP Moulded Grating offers superior resistance to acids, alkalis, and corrosive environments, making it ideal for industrial and marine applications. This guide helps you select the right grating for long-lasting performance in harsh conditions.

#### Chemical Resistant Table Key

|  |  |
|--|--|
| <p><b>C</b><br/>Continuous exposure of the grating to the Chemical Environment listed at the Temperature listed.</p> <p><b>F</b><br/>Frequent exposure of the grating to splashes and spills from the Chemical Environment listed with that environment at the Temperature listed.</p> <p><b>I</b><br/>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 the grating.</p> | <p><b>N</b><br/>Not recommended for the Concentrations &amp; Temperatures listed.</p> <p>MAX Temperature is 85 °C for Vinyl grating.<br/>MAX Temperature is 70 °C for Isophthalic grating.</p> <p>GRP Australia believes the data 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.</p> |
|--|--|

| CHEMICAL             | % CONC. | TEMP. °C | VINYL ESTER | ISOPHTHALIC |
|----------------------|---------|----------|-------------|-------------|
| Acetic Acid          | 50      | MAX      | C           | C           |
| Acetone              | 100     | 24       | F           | I           |
| Aluminium Hydroxide  | ALL     | MAX      | C           | C           |
| Aluminium Chloride   | ALL     | MAX      | C           | C           |
| Ammonium Chloride    | ALL     | 50       | C           | C           |
| Ammonium Bicarbonate | 15      | 50       | C           | C           |
| Ammonium Bicarbonate | 50      | 50       | C           | C           |
| Ammonium Hydroxide   | 20      | 26       | F           | N           |
| Ammonium Sulphate    | ALL     | 50       | C           | C           |
| Barium Sulphate      | ALL     | MAX      | C           | C           |
| Benzene              | 100     | 65       | I           | I           |
| Benzoic Acid (SAT)   | SAT     | MAX      | C           | C           |
| Borax (SAT)          | SAT     | MAX      | C           | C           |
| Calcium Carbonate    | ALL     | MAX      | C           | C           |
| Calcium Hydroxide    | 25      | MAX      | C           | F           |
| Calcium Hypochlorite | ALL     | MAX      | C           | I           |
| Calcium Nitrate      | ALL     | MAX      | C           | C           |
| Carbon Tetrachloride | 100     | 26       | I           | N           |
| Chlorine - Dry Gas   | ALL     | MAX      | C           | C           |
| Chlorine Water (SAT) | SAT     | 50       | C           | I           |
| Chromic Acid         | 50      | 65       | I           | N           |
| Citric Acid          | ALL     | MAX      | C           | C           |
| Copper Chloride      | ALL     | MAX      | C           | C           |
| Copper Cyanide       | ALL     | 60       | C           | F           |

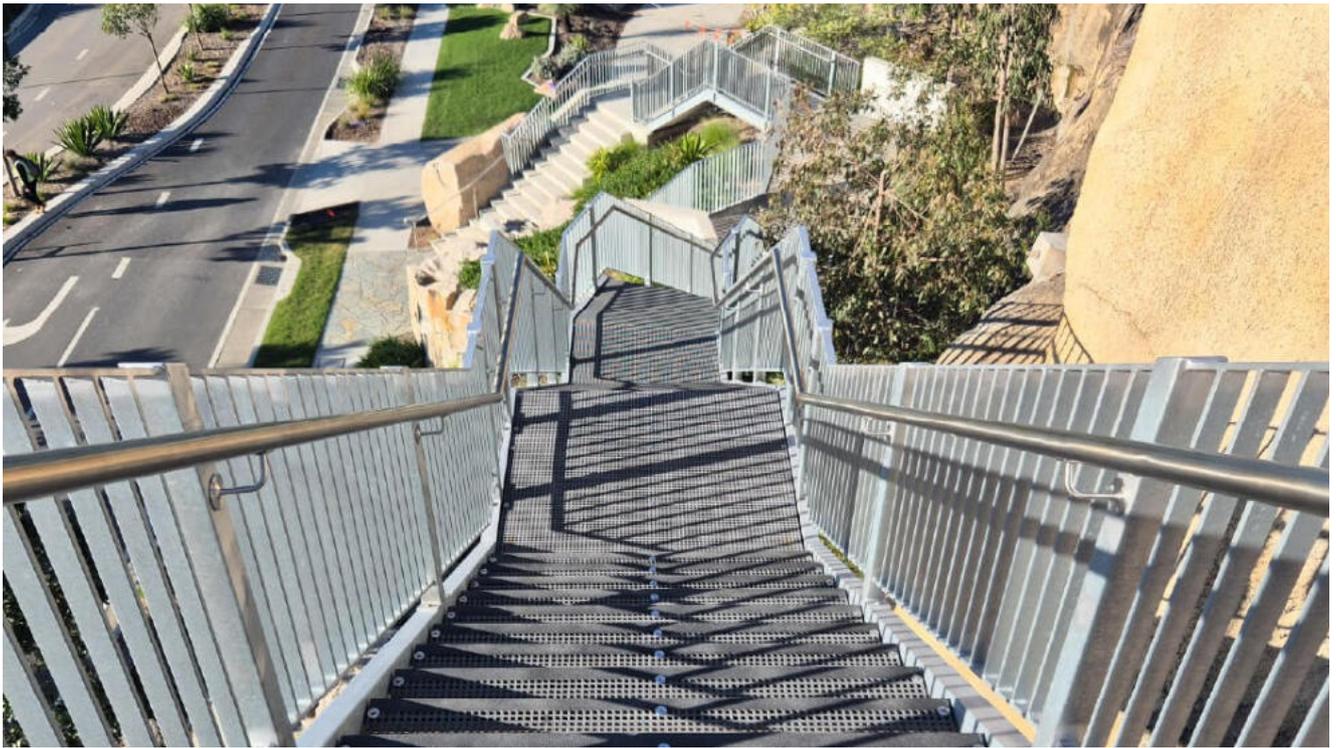
| CHEMICAL                  | % CONC. | TEMP. °C | VINYL ESTER | ISOPHTHALIC |
|---------------------------|---------|----------|-------------|-------------|
| Copper Nitrate            | ALL     | MAX      | C           | C           |
| Crude Oil (Sweet or Sour) | ALL     | MAX      | C           | C           |
| Diesel Fuel               | ALL     | 37       | C           | C           |
| Ethanol                   | 10      | 50       | C           | F           |
| Ethanol                   | 50      | 50       | C           | I           |
| Ethanol Glycol            | ALL     | 65       | C           | C           |
| Ferric Chloride           | 100     | MAX      | C           | C           |
| Ferric Nitrate            | ALL     | MAX      | C           | C           |
| Ferrous Chloride          | ALL     | MAX      | C           | C           |
| Fluoro silicic Acid       | 10      | 24       | C           | C           |
| Formaldehyde (0-50%)      | 50      | 50       | F           | I           |
| Gasoline                  | ALL     | 50       | C           | C           |
| Glucose                   | ALL     | 50       | C           | C           |
| Glycerin                  | 100     | MAX      | C           | C           |
| Hydrobromic Acid          | 50      | MAX      | F           | F           |
| Hydrobromic Acid          | 10      | MAX      | C           | F           |
| Hydrobromic Acid          | 37      | MAX      | C           | F           |
| Hydrogen Peroxide         | 30      | 26       | C           | N           |
| Lactic Acid               | 100     | MAX      | C           | C           |
| Lithium Chloride (SAT)    | SAT     | MAX      | N           | N           |
| Magnesium Chloride        | ALL     | MAX      | C           | C           |
| Magnesium Nitrate         | ALL     | MAX      | C           | C           |
| Magnesium Sulphate        | ALL     | MAX      | C           | C           |
| Mercuric Chloride         | ALL     | MAX      | C           | C           |
| Mercurous Chloride        | ALL     | MAX      | C           | C           |
| Nickle Chloride           | ALL     | MAX      | C           | C           |
| Nickle Sulphate           | ALL     | MAX      | C           | C           |
| Nitric Acid               | 20      | 50       | F           | F           |
| Oxalic Acid               | ALL     | 65       | C           | C           |
| Perchloric Acid           | 30      | 32       | F           | I           |
| Phosphoric Acid           | 80      | MAX      | C           | C           |
| Potassium Chloride        | ALL     | MAX      | C           | C           |
| Potassium Dichromate      | ALL     | MAX      | C           | C           |
| Potassium Nitrate         | ALL     | MAX      | C           | C           |
| Potassium Sulphate        | ALL     | MAX      | C           | C           |
| Propylene Glycol          | ALL     | MAX      | C           | C           |
| Sodium Acetate            | ALL     | MAX      | C           | C           |
| Sodium Bisulfate          | ALL     | 26       | F           | F           |
| Sodium Bromide            | ALL     | 26       | C           | C           |
| Sodium Cyanide            | ALL     | 26       | C           | I           |
| Sodium Hydroxide          | 10      | MAX      | C           | I           |
| Sodium Hydroxide          | 50      | MAX      | F           | N           |
| Sodium Nitrate            | ALL     | MAX      | C           | C           |
| Sodium Sulphat            | ALL     | MAX      | C           | C           |

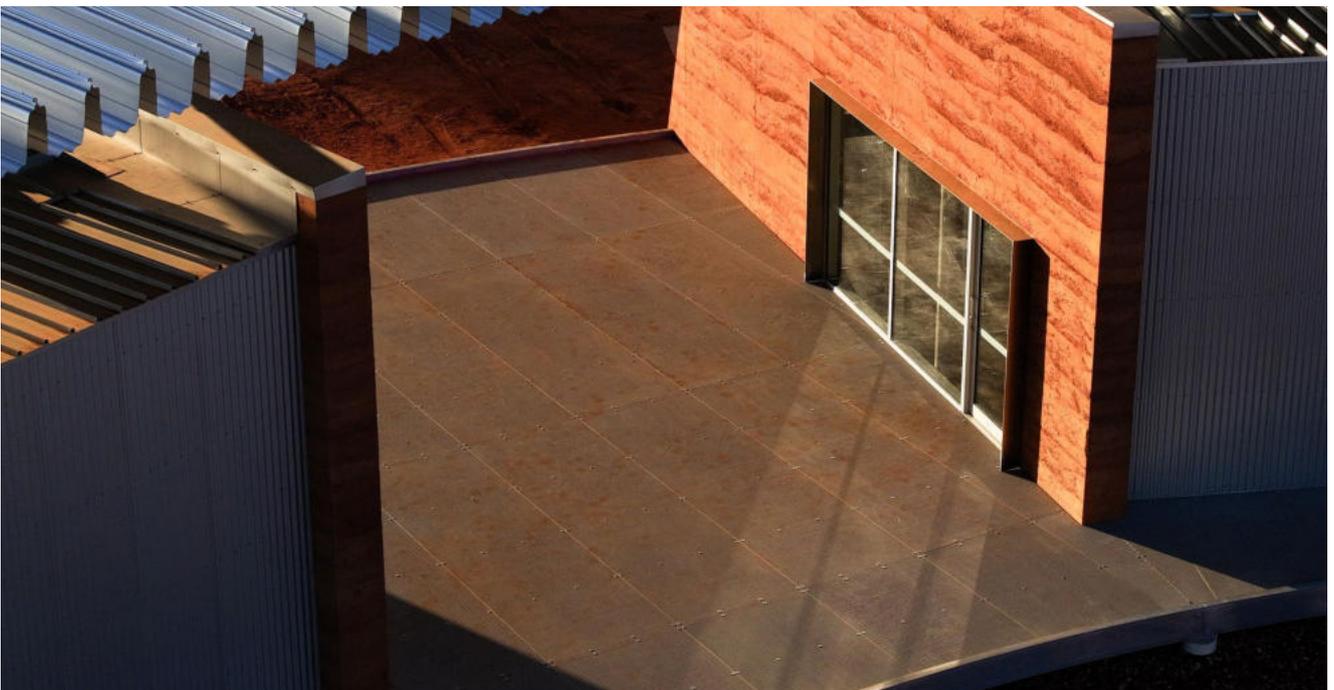
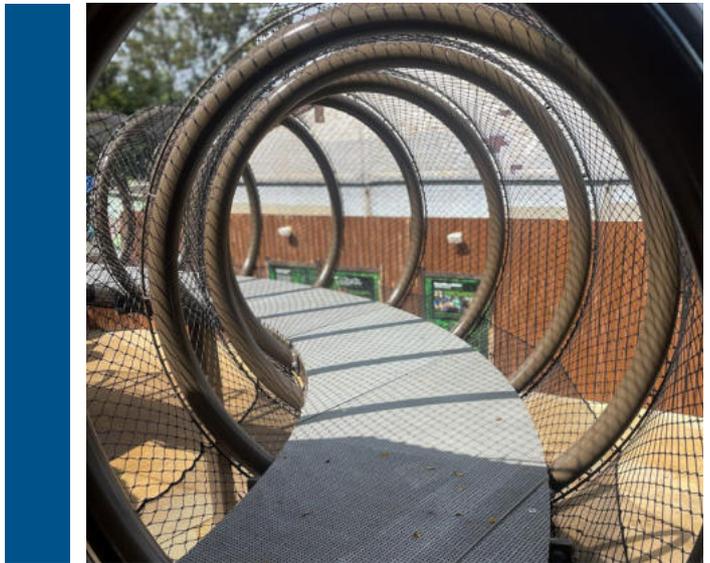
# MOULDED GRATING

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### 18.0 GALLERY

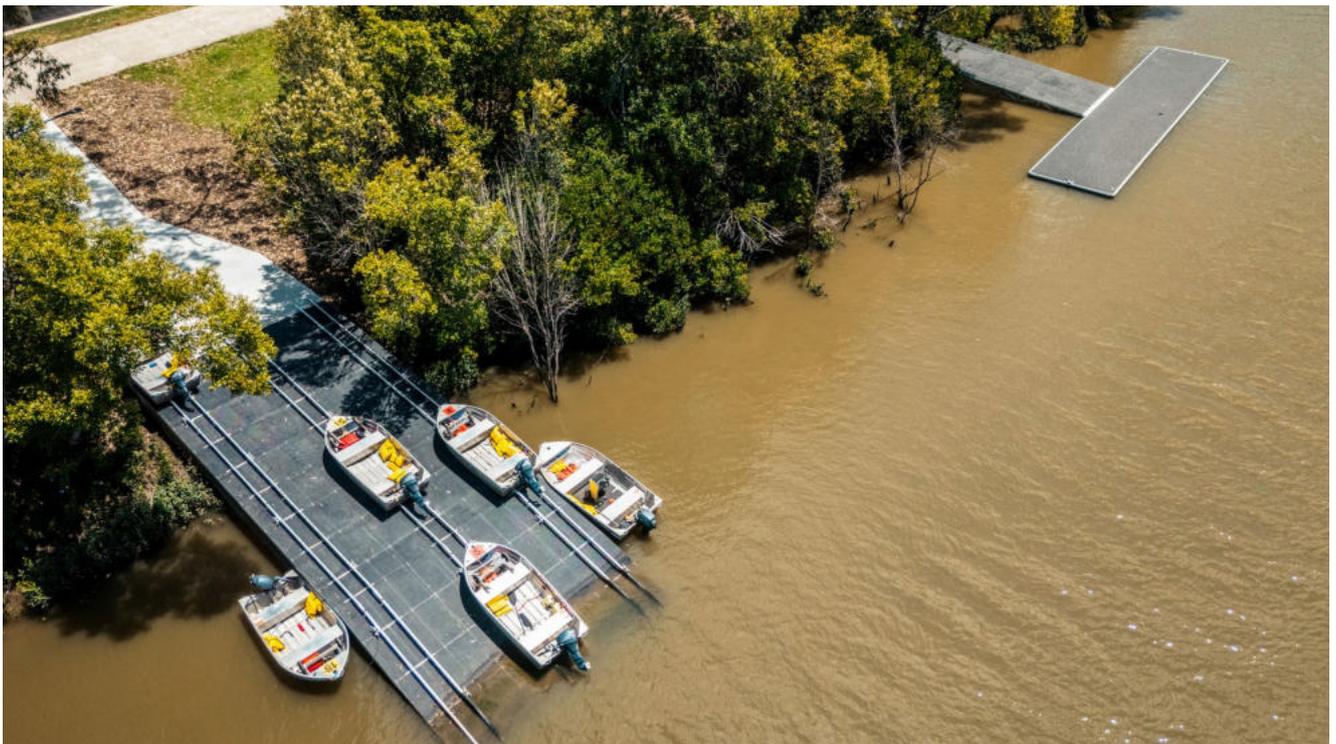




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**GRP AUSTRALIA**

**L:** 936 Nudgee Rd, Banyo. QLD. 4014

**E:** [sales@grpaustralia.com.au](mailto:sales@grpaustralia.com.au)

**P:** 07 3252 1244