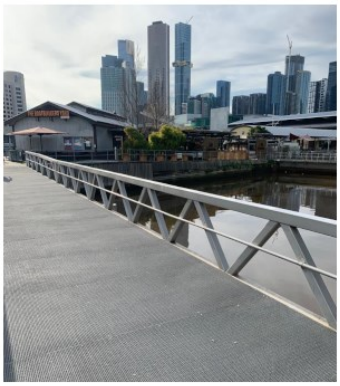
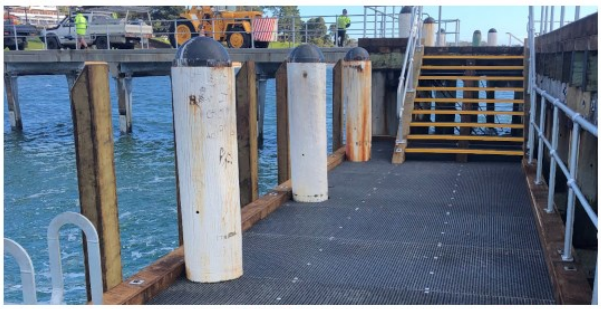
COMPOSITE ENGINEERING

MaxiGRATE®

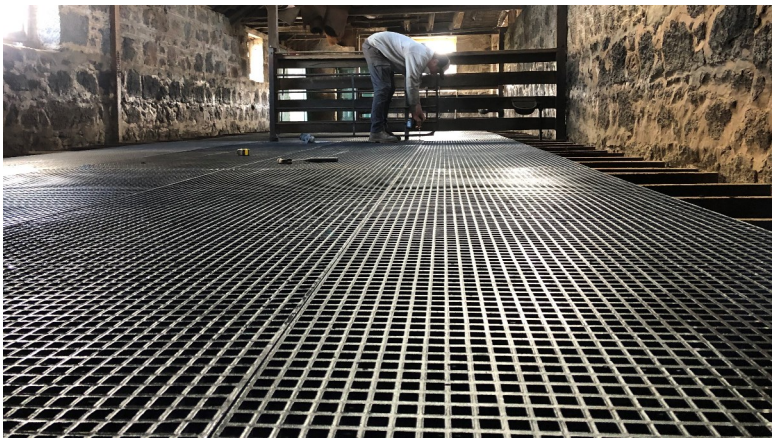
FRP Grating Information

COMPOSITE ENGINEERING

MaxiGRATE®

FRP Grating

For the ultimate in unmatched corrosion resistance with strength, long-life and safety, MaxiGrate fibreglass reinforced grating is proven to deliver years of reliable service, even in demanding corrosive environments. Where conventional metallic and wooden products and structures deteriorate rapidly, MaxiGrate will last longer than any other material. Our grating is also both lightweight, and simple to fabricate, whether in the factory or on site.



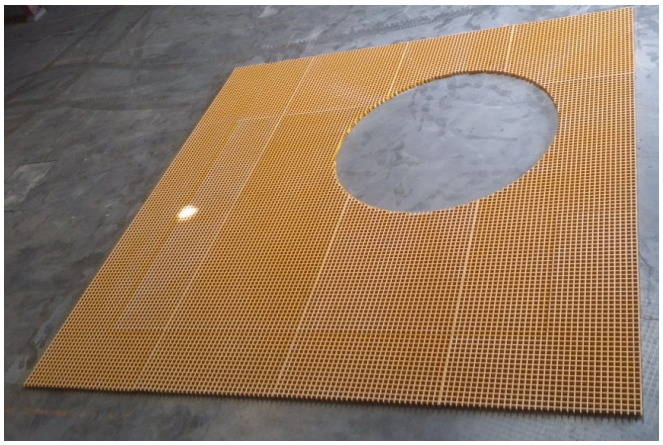
Combining installation savings on labour and equipment with additional reductions with low maintenance, long service life and worker safety, our fibreglass moulded grating offers a life-cycle cost that is considerably lower than those of traditional materials.

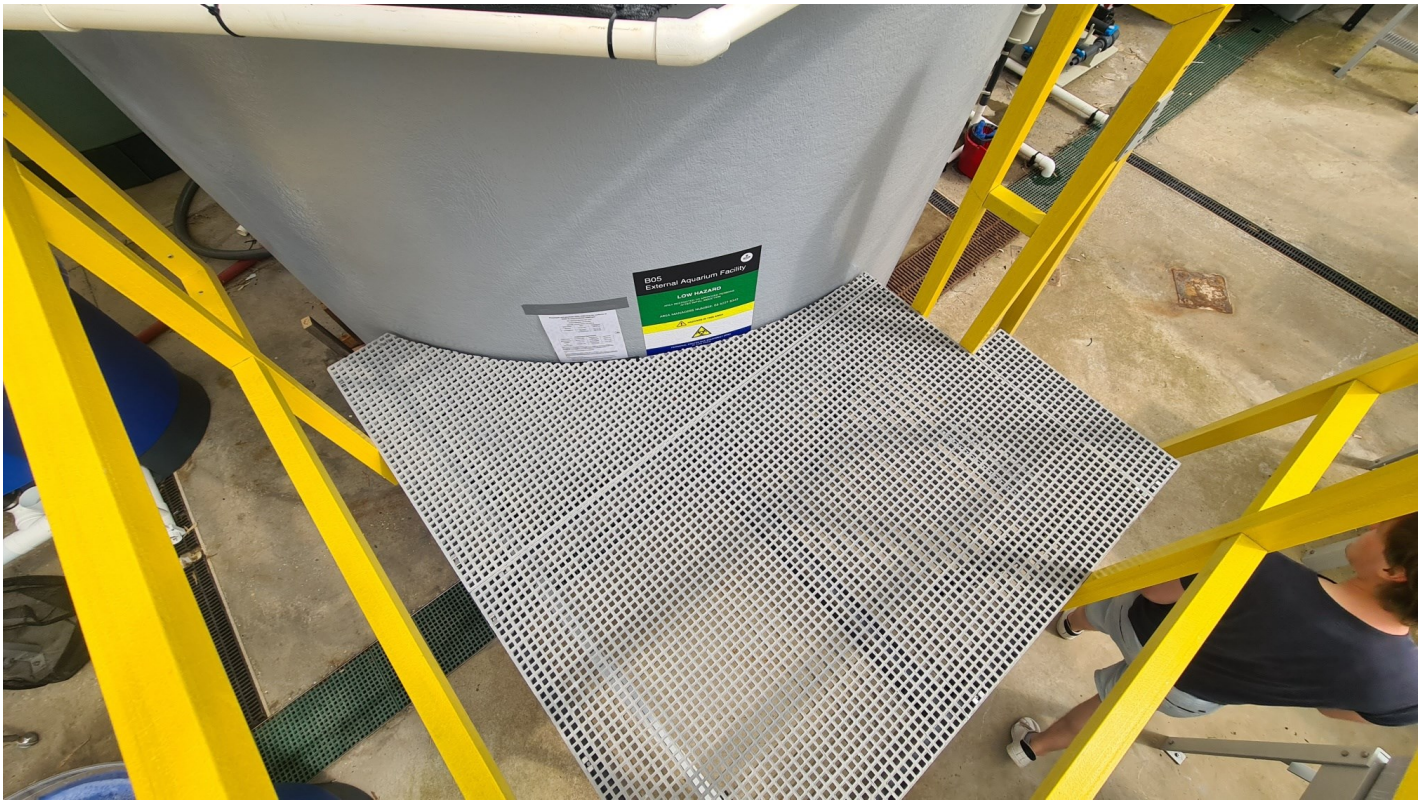
COMPOSITE ENGINEERING

MaxiGRATE®

FRP Grating

Our standard colour range covers safety yellow, green, charcoal and light grey. The surface treatment options include anti-slip grits from coarse to extra-fine, as well as meniscus and sanded finishes. Composite Engineering moulded gratings carry a flame-spread index (rating) of 25 or less when tested in accordance with the ASTM E-84 standard, while also meeting the ASTM D-635 extinguishing requirements.





Composite Engineering can supply full sized panels, or fabricate to any shape and size to suit your application. We maximise material usage through CAD design and nesting techniques, with thicknesses in stock ranging from 12mm to 51mm, and carried in both Isophthalic (Polyester) and Vinyl Ester resin systems.

COMPOSITE ENGINEERING

MaxiGRATE®

Benefits of MaxiGRATE

Corrosion Resistant

Resistant to harsh corrosive environments.
Suitable to immersion in fresh and salt water.

Easy to Install

Easy to fabricate on site using standard tools.
No specialist equipment needed.

RF Transparent

Transparent to electric magnetic and radio transmissions .

Strong

High strength to weight ratio compared to traditional building materials.

Low Maintenance

Tough and durable, requiring zero or low ongoing maintenance.

Lightweight

FRP structures are lightweight and do not generally require specialist lifting gear.

Low Conductivity

Low electrical and thermal conductivity.
Making them a safe alternative to metal.

Ease of Design

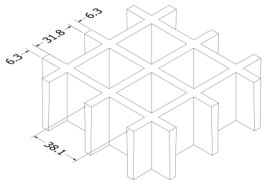
Suitable to replace traditional building materials in most applications

COMPOSITE ENGINEERING

MaxiGRATE®

Grating Style and Size Options

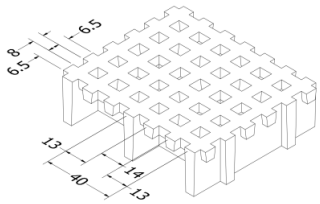
38 x 38



Height, H (mm)	Bearing bar thickness (Top/ Bottom)	Std. Panel Size * (mm)	Approx. Weight (kg/m^2)	Open Area (%)
13	6.0/5.0	1220x3660	6	68%
15	6.1/5.0	1220x615	7	65%
25	6.4/5.0	1220x3660	12.3	68%
30	6.5/5.0	1220x3660	14.6	68%
38	7.0/5.0	1220x3660	19.5	68%

* Other panel sizes available on request

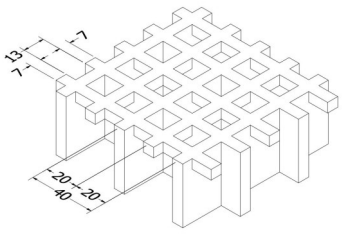
13 x 13/40 x 40



Height, H (mm)	Bearing bar thickness (Top/ Bottom)	Std. Panel Size * (mm)	Approx. Weight (kg/m^2)	Open Area (%)
22	6.4 & 4.5/5.0	1247x3687	14.3	30%
25	6.5 & 4.5/5.0	1247x3687	15.2	30%
30	7.0 & 4.5/5.0	1247x3687	19.6	30%
38	7.0 & 4.5/5.0	1247x3687	20.3	30%

* Other panel sizes available on request

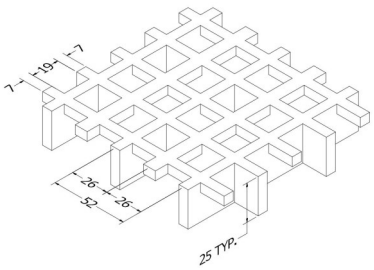
20x20/40 x 40



Height, H (mm)	Bearing bar thickness (Top/ Bottom)	Std. Panel Size * (mm)	Approx. Weight (kg/m^2)	Open Area (%)
14	6.4/5.0	1247x3687	10.5	42%
22	6.4/5.0	1247x3687	15.2	42%
30	6.5/5.0	1247x3687	18.3	42%
38	7.0/5.0	1247x3687	23.7	42%

* Other panel sizes available on request

26x26/52 x 52



Height, H (mm)	Bearing bar thickness (Top/ Bottom)	Std. Panel Size * (mm)	Approx. Weight (kg/m^2)	Open Area (%)
25	7.0/5.0	1254x3649	13.1	60%
38	7.0/5.0	1254x3649	19.5	60%

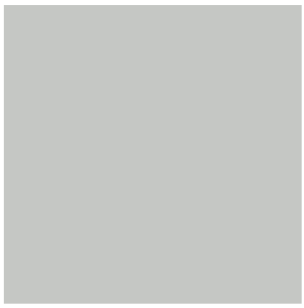
* Other panel sizes available on request

COMPOSITE ENGINEERING

MaxiGRATE®

Colour and Finish Options

Standard Colour Range*



Light Grey

(RAL 7035)

Safety Yellow

(RAL 1003)

Green

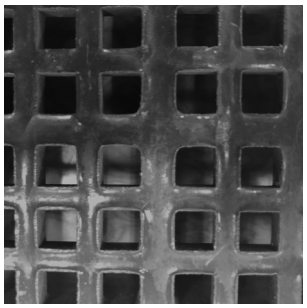
(RAL 6001)

Dark Grey

(RAL 7021)

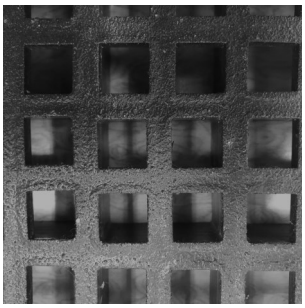
*Custom colours available, contact us for more information

Standard Finish Range+

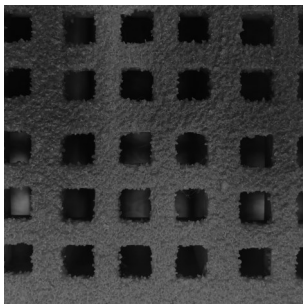


Concave

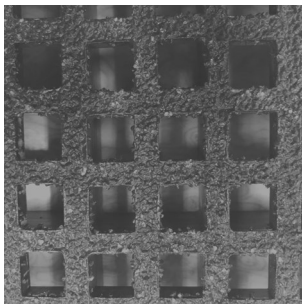
(No Grit)



Extra Fine Grit



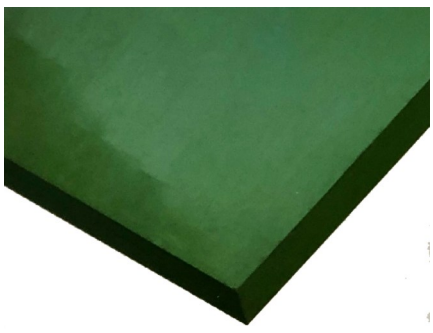
Fine Grit



Standard Grit

+Custom finishes available, contact us for more information

Solid Top Range



Mirror Surface

Chequer Plate

Grit Finish