



FRP FENCING & SCREENING **PRODUCT GUIDE**

GRP AUSTRALIA | 2026

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FENCING & SCREENING 2026

FRP FENCING & SCREENING

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1.0 WHY FRP FENCING & SCREENING

FRP (Fibreglass Reinforced Polymer) fencing is a range of fencing & access gates designed & fabricated by GRP Australia that has the following characteristics:



Non - Conductive



Non - Corrosive



Lightweight



UV Resistant



Low Maintenance



Radio Transparent
(Radio Opaque)



Frangibility Options
(Impact Safety)



High Wind Load
(Design Capabilities)

Applications:

- Transformer Yards
- Airport Security Fencing
- Security for Radio Transmission Towers
- Fencing under High-Voltage Transmission Lines
- Electric railway security fencing
- Mining and Industrial Safety Fencing
- Highly Corrosive Environments



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4 2.0 FIRE PROPERTIES

All GRP Australia products contain fire retardants, typically alumina trihydrate. Our standard profiles are classified as class 1,25 or less flame spread index to ASTM E84. The ultimate fire rating properties of GRP pultruded products will depend on the composite mix. Pultruded profiles tested to AS 1530.3 achieved the following results:

	Range	IFR10	IFR 25
Spread of Flame index	(0-10)	0	2
Heat Evolved Index	(0-10)	1	5
Smoke developed Index	(0-10)	5	5
Ignitability Index	(0-20)	13	10

3.0 WEATHERING

All GRP Australia products have UV inhibitors to protect against UV light, but extended exposure will eventually damage the surface. To prolong the durability of GRP members exposed to direct sunlight, it is recommended to apply a protective coating.

4.0 ENVIRONMENT & DISPOSAL

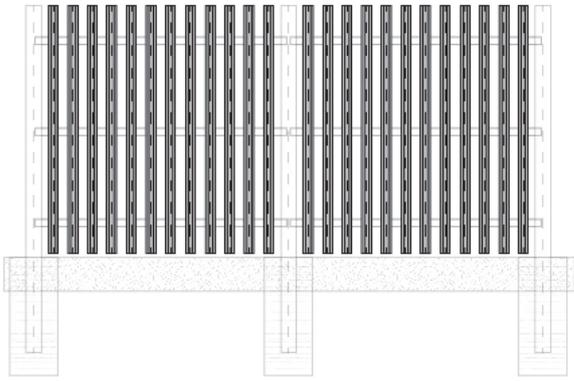
FRP pultruded profiles (fiberglass-reinforced unsaturated polyesters) are a stable and virtually non-degradable material. Offcuts and profiles which are at the end of their service life, can be disposed as normal industrial waste as the materials do not give off substances which can harm the environment.

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.

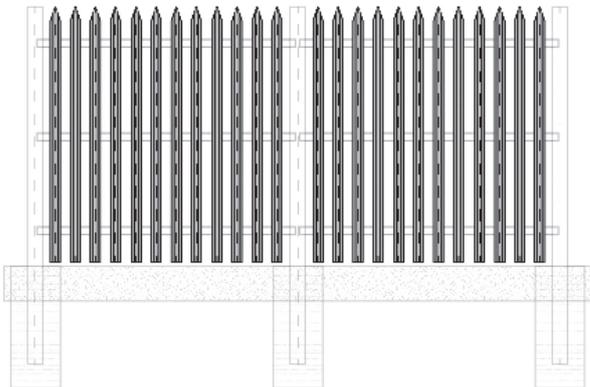
5.0 FENCING PALING STYLE

Fiberglass Reinforced Plastic (FRP) paling style with FRP Structural Sections is a lightweight, corrosion-resistant solution ideal for industrial, commercial, and architectural applications.

5.1 TOP HAT (STRAIGHT CUT)

TYPICAL LAYOUT Top Hat (Straight Cut) Paling Style		GALLERY Installation		
				
	Profile	Type	Dimension (mm)	(kg/m)
	TH	Top Hat TH90x30x4.0	A x B x T1 x T2 90 x 30 x 4.0	1.03

5.2 TOP HAT (ANGLE CUT)

TYPICAL LAYOUT Top Hat (Angle Cut) Paling Style		GALLERY Installation		
				
	Profile	Type	Dimension (mm)	(kg/m)
	TH	Top Hat TH90x30x4.0	A x B x T1 x T2 90 x 30 x 4.0	1.03

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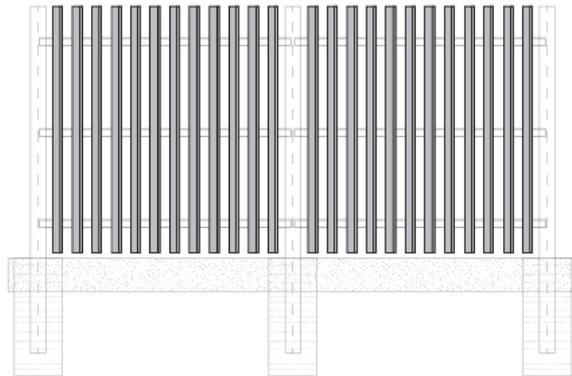
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5.3 EQUAL ANGLE

TYPICAL LAYOUT

Equal Angle Paling Style

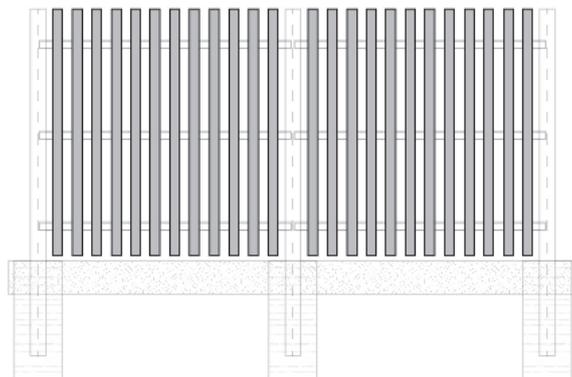


Profile	Type	Dimension (mm)	Weight (kg/m)
	Equal Angle	A x B x T1 x T2	
EA	EA50x50x6.4	50 x 50 x 6.4 x 6.4	1.14
EA	EA76x76x6.4	76 x 76 x 6.4 x 6.4	1.77

5.4 RECTANGULAR HOLLOW SECTION

TYPICAL LAYOUT

Rectangular Hollow Section Paling Style



Profile	Type	Dimension (mm)	(kg/m)
	Top Hat	A x B x T1 x T2	
RHS	RHS90x45x5x4	RHS90x45x5x4	2.11

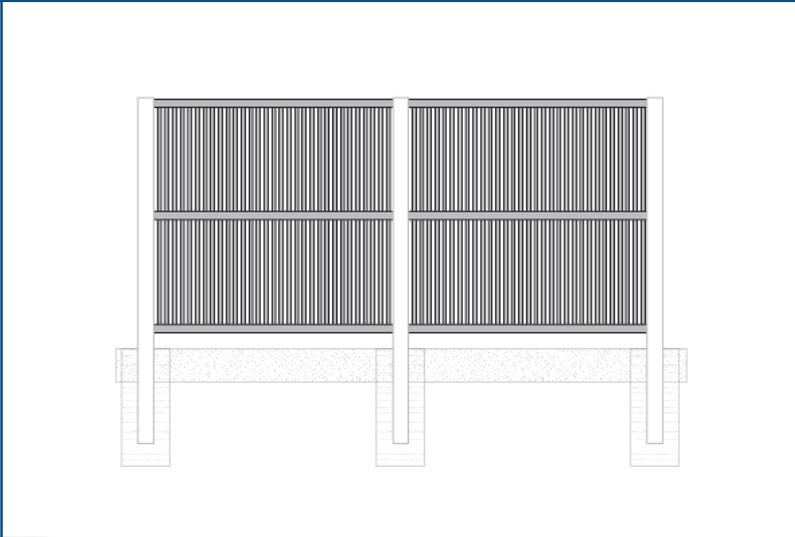
**Note end caps available for this profile*

6.0 ROUND TUBE w/SQUARE HOLLOW SECTION

Fiberglass Reinforced Plastic (FRP) screening with a Round Tube profile—featuring smooth, cylindrical geometry—offers a lightweight and corrosion-resistant solution that excels in industrial, commercial, and architectural settings.

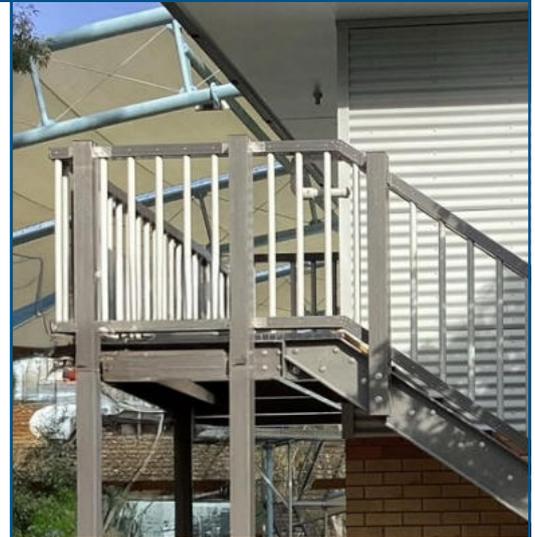
TYPICAL LAYOUT

Round Tube w/ Square Hollow Section Paling Style



GALLERY

Installation



	Profile	Type	Dimension (mm)	(kg/m)
		Round Tube	A x B x T1 x T2	
	RT	RT38x5	38x5	1.00

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7.0 MOULDED GRATING

FRP Moulded Grating screening panels—manufactured with a 38x38 grating type. Panels feature a 33mm hole aperture, providing a lightweight, corrosion-resistant solution ideal for industrial, commercial, and architectural applications.

TYPICAL LAYOUT Moulded Grating Paling Style		GALLERY Installation		
	Grating Type	Thickness	Panel Size	Weight
	38x38	(mm) 38	(mm) 1226 x 3665	(kg/sheet) 87.6

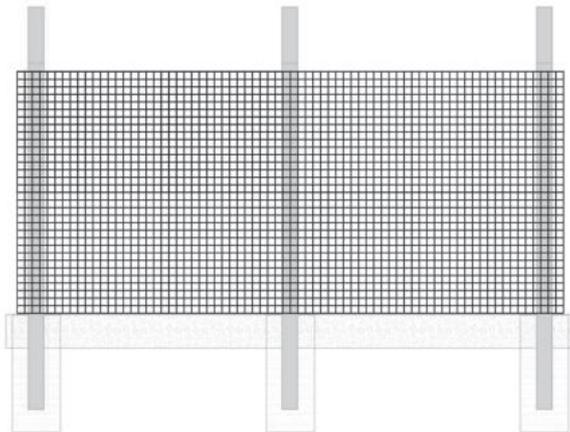
**Note other grating types available upon request*

MOULDED GRATING Hole Aperture	COLUMN POST Side Profile

8.0 FRP WIRE MESH FENCING

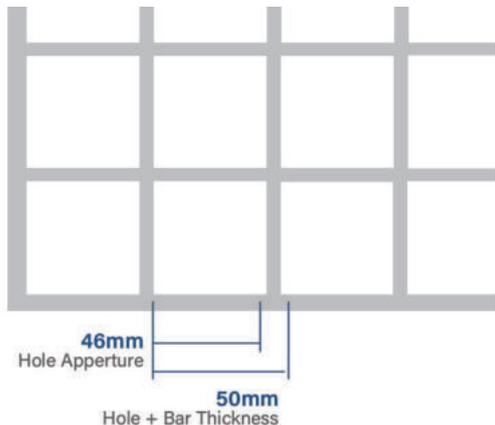
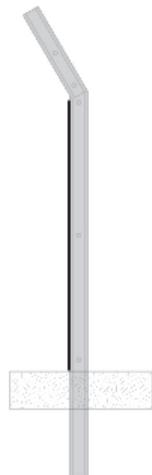
Fiberglass Reinforced Plastic (FRP) wire mesh infill—constructed from interconnected, slender FRP strands—offers a lightweight and corrosion-resistant solution that is ideal for security fencing around airports.

TYPICAL LAYOUT
Wire Mesh Paling Style



	Mesh Type	Strand	Panel Size	Weight
		(mm)	(mm)	(kg/sheet)
	50x50	4	1800 x 3600	0.8

**Note other mesh types available upon request*

FRP WIRE MESH Hole Aperture	COLUMN POST Side Profile
 <p>46mm Hole Aperture</p> <p>50mm Hole + Bar Thickness</p>	

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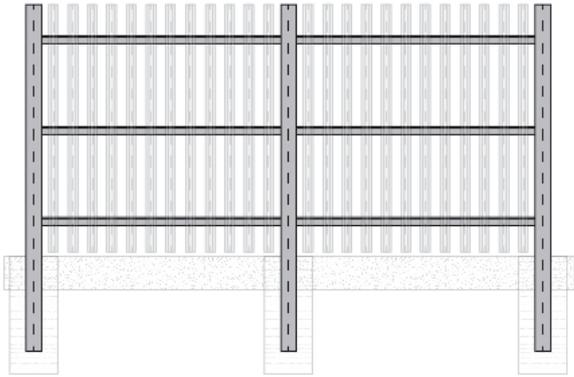
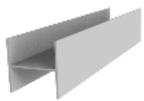
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9.0 FENCING POST

FRP Fencing & Screening panels paired with FRP Structural Sections as posts offer a robust and modern solution for industrial, commercial, and architectural applications. The lightweight yet corrosion-resistant FRP panels provide excellent rigidity and a high strength-to-weight ratio, while the FRP posts ensure strong, stable support and straightforward installation.

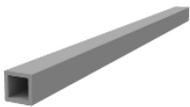
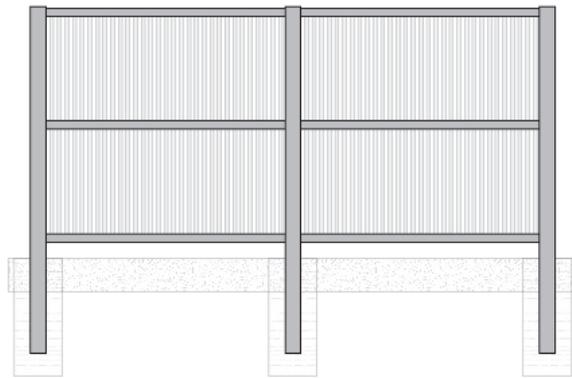
9.1 H BEAM

TYPICAL LAYOUT H Beam Posts		GALLERY Installation		
				
	Profile	Type	Dimension (mm)	(kg/m)
		H Beam	A x B x T1 x T2	
	HB	HB102x102x6.4	102 x 102 x 6.4 x 6.4	3.59
	HB	HB152x152x6.4	152 x 152 x 6.4 x 6.4	5.43
	HB	HB152x152x9.5	152 x 152 x 9.5 x 9.5	8.10

9.2 SQUARE HOLLOW SECTION

TYPICAL LAYOUT

H Beam Posts



Profile	Type	Dimension (mm)	(kg/m)
	Square Hollow Section	A x B x T1 x T2	
SHS	SHS76x76x6.4	76 x 76 x 6.4 x 6.4	3.39
SHS	SHS100x100x8	100 x 100 x 8 x 8	6.00

**Note end caps available for this profile*



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