FibreFENCE

GRP Palisade Fencing

DESIGN | SUPPLY | FABRICATE | INSTALL

FIBREGRID

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GRP Palisade Fencing

Our GRP Palisade Fencing Panels are constructed using our non-conductive, lightweight pultruded profiles, making them a highly effective alternative to traditional steel fencing, whilst still maintaining strength. This makes them highly beneficial in areas such as railways, electrical enclosures and chemical sites.

Our GRP Profiles comply with BS EN 13706, either E17 or E23. The GRP Top Hat Pales are independently tested and comply with the requirements of BS 1722-12:2016.

CHARACTERISTICS

- Will not corrode or rust like other traditional materials such as steel
- Non-conductive
- Radar transparent
- Extremely strong, will not dent or buckle easily
- Lightweight and easy to handle

SUITABLE APPLICATIONS

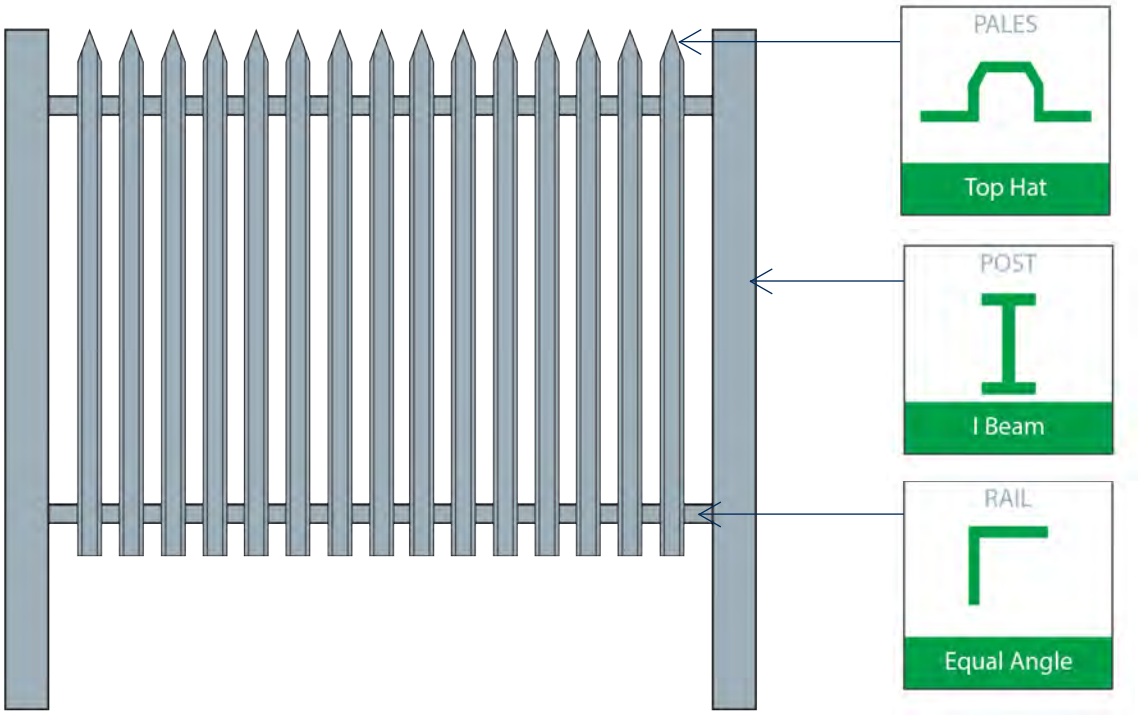
- ✓ **Electrical substations**
- ✓ **Electrical rail services**
- ✓ **Chemical sites**
- ✓ **Heavily industrial areas**

TECHNICAL DATA

GRP profiles used:	Top Hat Pales, Equal Angle Rails, I Beam Posts. I Beams and Equal Angle profiles are available to buy separately at www.fibregrid.com
Fixings:	A2 Grade Stainless Steel Screws
Heights:	Stock sizes are 1.8m, 2.4m or 3m. These are the above ground heights, for embedded lengths see table below
Lengths:	Fencing is sold by the metre. The maximum length of a panel must be 2.72m. For example, if you order 15m of GRP Fencing, you will receive 5 panels at 2.72m, and 1 panel at 1.4m
Weights:	1.8m high x 2.72 length panel : 41kg 2.4m high x 2.72m length panel : 50kg 3m high x 2.72 length panel : 58kg
I Beam sizes:	1.8m high - 152 x 76 x 6.35mm 2.4m high - 152 x 76 x 6.35mm 3m high - 150 x 80 x 10mm
Equal Angle rail size:	60 x 60 x 8mm
Top Hat profile size:	88 x 30 x 3.9mm
Pale width:	88mm

INSTALLATION

Our GRP Palisade Fencing panels come in unassembled profiles. You will receive the following components to be assembled onsite: Top Hat Pales, I Beam Posts, Equal Angle Rails, A2 Stainless Steel Screws.



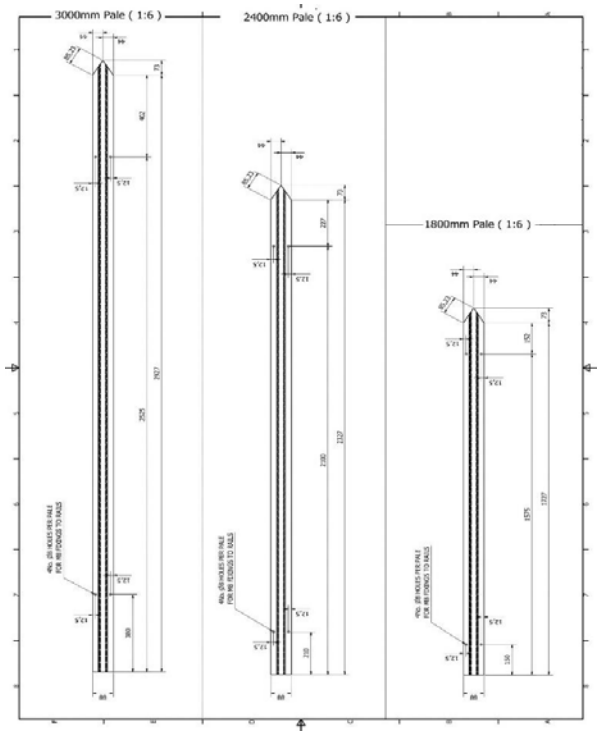
FULL DIMENSIONS

Fence height above ground (m)	Dimensions						
	Posts		Rales (Horizontal)		Pales		
	Embedded Length (mm)	Size of Hole (mm)	Length (m)	Suggested Connector Blolt Diameter (mm)	Maximum Gap Between Pales, Face-to-view (mm)	Oversail	
						Top (mm)	Bottom (mm)
1.80	525	350 x 350	2.72	8	89	225	150
2.40	725	350 x 350	2.72	8	89	300	210
3.00	925	450 x 450	2.72	8	86	475	380

METHOD A:
MAKING UP FENCE PANEL BEFORE INSTALLATION

Pales:

- 15 pales for each fence panel
- 9mm holes
- Oversail and undersail sizes depending on fence panel size. Please see drawing >



Fixings:

- Attach the pale to the rail using 30mm stainless steel or galvanised steel coach bolts with a washer and anti-tamper shear nut on the back
- 13 sets of 9mm holes pre-drilled
- 1 pale at each end to be drilled on site on desired position with 9mm holes

Front

Back

Post fixing angle rail:

- Connect the rail to the post using angle cleats
- While using the angle as the rail, a cleat is drilled and fixed to the post. The rail is then rested on top of the cleat and drilled and fixed to the cleat. See example >

METHOD B:
INSERT POSTS IN THE GROUND BEFORE INSTALLATION

Concrete in posts:

- Dig out the holes to the required depth for the height of the fence, and concrete the fence posts into the ground
- Once posts have been set in the concrete, attach the fence rails to the posts using 30mm bolts
- Attach the 13 pales to the rails using M8 x 30mm bolts
- Drill the rails for the final 2 pales

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