



THE #1 GFRP SOLUTION FOR CONCRETE REINFORCEMENT

GFRP



10mm Horizontal Bar[™] (Slab On Ground)

10mm Horizontal Bar is the best in class GFRP (Glass Fibre Reinforced Polymer) rebar. Engineered for concrete slab on ground, 10mm Horizontal Bar is manufactured with long-lasting resin and corrosion-resistant glass to reinforce your concrete with a superior grade, reinforcement.

Where you can use GFRP*

- RESIDENTIAL DRIVEWAYS
- ALTERNATIVE FOR STAINLESS
 & GALVANISED APPLICATIONS
- FOOTPATHS & WALKWAYS
- CONCRETE SLABS
- PAVING
 DIY

*Not for vertical installation.













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- Quick & Simple Installation
- 200+ Years Service Life
- Reduced Environmental Impact
- Corrosion Resistant
- Nonconductive & Nonferrous



GFRP Slab On Ground design for shrinkage.

This design uses the following assumptions:

- · Soil to have a good compaction
- Bars to be placed properly
- · Control joint to be cut properly
- Expansion joint to be considered properly
- Spacing between bars to be accurate

Handling & Installation



Always wear gloves when handling 10mm Horizontal Bar $^{\text{TM}}$. Direct contact to skin can cause irritation.



Use a diamond blade when site-cutting 10mm Horizontal Bar™. Do not shear the bars. If lap-splicing is necessary, use contact lap splices. Lap length should be no less than 400mm.



Tie and chair 10mm Horizontal Bar™ as you would steel rebar. Tie wire, rebar clips, and plastic zipties are acceptable methods of securing the bar. Beware of settlement of floating when using 10mm Horizontal Bar™ with high slump concrete or when vibrating.



Safety glasses and Dust masks recommended when cutting.

Design Aid for Mesh with GFRP

3L02	Spacing Soumm C/C			3L0Z	Spacing 350mm C/C	
SL72	Spacing 400mm C/C		SL92		Spacing 300mm C/C	
Slab Thickness	Temperature Zone	. GERA Redilited in each Direction			NOTES: Sawcut control joints at 4m to 5m spacing maximum,	
100mm	Subzero to +100° C	Mid-strip: 10mm Horizontal Bar @300mm Edge-strip: 10mm Horizontal Bar @400mm			depth of sawcut shall be 25% of slab thickness. If you wish to use 10mm GFRP bars, you can increase the spacing accordingly based on tensile capacity of the GFRP	
150mm	Subzero to +100° C	Mid-strip: 10mm Horizontal Bar @ Edge-strip: 10mm Horizontal Bar @		can	rebar, capacity between the two is 26%, therefore spacing can be increased by 26%. Expansion joints shall be at maximum spacing of 15 metres. Mid-strip is 50% of width of panel between joints. Edge-strip is 25% of width of panel along all joints. All 10mm Horizontal Bar rebars are placed at mid-depth of slab unless otherwise note.	
150mm (12 kPa loads)	Subzero to +100° C	Mid-strip: 10mm Horizontal Bar @ Edge-strip: 10mm Horizontal Bar @ -Plus 2-Bar @400 Top all along exp	9400mm	· Edg		
200mm	Subzero to +100° C	Mid-strip: 10mm Horizontal Bar @ -Plus 3-Bar @300 Top all along exp			ver to additional top rebars shall be 30mm to 40mm nimum	

