

MATEENBAR™ INSTALLATION GUIDELINES

FOR PAVEMENT APPLICATIONS

This quick guide provides information on how to install Mateenbar™ fibreglass rebar in driveway and footpath applications – including proper techniques, bar spacing, and essential tools and materials.

TOOLS & MATERIAL CHECKLIST

- Tape measure
- Marking paint
- SOG Bar chairs (bar chairs to hold rebar centrally during pouring)
- A cordless tying gun or manual tie-wire nips
- Tie-wire rolls or reels
- 5" Grinder with diamond blade for cutting



INSTALLATION STEPS

1. Adjust form boards to match the finished concrete surface level and ensure correct placement.
2. Mark your bar spacing on the formwork or ground to indicate the rebar placement.
3. Lay the first layer of Mateenbar™ north-south within the marked area of the formwork. Overlap and tie bars where required.
4. Place the second layer of Mateenbar™ east-west aligning with your marks. Secure overlaps as needed.
5. Check that the bars are straight and maintain consistent spacing as per the markings. Use tie rebar intersections in a diamond tie pattern to save on wire, time, and costs.
6. Position bar chairs to elevate and support the rebar during the concrete pour at a rate of four chairs per square metre.
7. Install Mateenbar™ trimmer bars around drains, internal corners, sumps, and other critical areas to reinforce the structure and reduce the potential for cracking.

RECOMMENDED FRP REINFORCEMENT

Base Thickness (mm)	Concrete Grade	Max. Control Joint Spacing (m)	Bar Diameter (mm)	Spacing (mm)	Comparable Steel Reinforcement
100	N25	4.5	10	200	SL72 ^a
125	N32	4.5	10	150	SL62 ^b
150	N32	4.5	10	150	SL82 ^{a,b}
200	N32	4.5	12	200	SL92 ^b

NOTE: ^a is from Table 5.2, AS3727:2016 and ^b is from Table 12.7, AGPT02-24. 10-200 is a GFRP bar with a diameter of 10 mm and a spacing of 200 mm. The minimum cover is 30mm. The bars are to be placed at the top of the pavement in both directions. Table prepared by Magryn & Associates Pty. Ltd.

NOTES

- Saw cut/tool joint is every 4 metres. Dowelled expansion joints are every 10 metres.
- Ensure the perimeter bar is no more than 30-50mm from the formed edge.
- Mateenbar™ is to be placed centrally within the concrete. Ensure bar chairs are installed correctly to keep rebar depth consistent.
- Glasses, gloves, and P2 respirator must be worn when cutting rebar.
- Installation requires gloves only.
- To ensure proper rebar placement it is recommended to have four bar chairs per square metre of surface area.

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