



SCHEDULE

PLANK TYPE	DIMENSIONS		REINFORCEMENT												
	'X'	'Y'	Bar Mark	Grade and Size	Shape	P	A	B	C	E	F	Length	Quantity	Centres	
RG4000	4000	1800	20A1	N20	A	-	3870	-	-	-	-	3870	7	130	
			12A2	N12	A	-	870	-	-	-	-	-	870	24	138
			12H3	N12	H	60	1020	140	715	855	198	1933	4	-	
			20E4★	20 dia SS round bar	E	100	660	430	430	-	-	1429	4	1100	
RG3500	3500	1550	20A1	N20	A	-	3370	-	-	-	-	3370	7	130	
			12A2	N12	A	-	870	-	-	-	-	-	870	20	138
			12H3	N12	H	60	900	140	715	855	198	1813	4	-	
			20E4★	20 dia SS round bar	E	100	660	430	430	-	-	1429	4	1000	

NOTES:

- FABRICATION: Precast planks shall be manufactured to MRTS72.
- DESIGN LOADING: This plank is designed for a multi axle trailer of maximum 2 tonnes per axle at minimum 750 centres. This plank shall only be used for recreational boating facilities with a signed maximum load limit of 8 tonnes per lane.
- CONCRETE: All concrete supply and placement shall be in accordance with MRTS70. The design mix shall be S50/20 for Exposure Classification C2.
- REINFORCING STEEL: All reinforcing steel shall be supplied in accordance with MRTS71. Carbon reinforcing steel and tie wires shall be hot dip galvanised to AS/NZS 4680. Deformed bars: Grade D500N. Minimum cover to carbon reinforcing steel: 65 unless shown otherwise.
- LINK BARS: Link bars shall be Grade 316 stainless steel flats in accordance with ASTM A276. All sharp edges shall be removed and neatly finished.
- STAINLESS STEEL REINFORCEMENT: (for anchor planks only): Bar Mark 20E4★ shall be Grade 316 stainless steel plain bar 500MPa in accordance with BS 6744:2016.
- TRAFFICABLE SURFACE FINISH: The concrete matrix shall be removed to about 1mm below the top of the exposed aggregate to achieve a non-slip finish. The invert of the drainage groove shall retain the off-form finish.
- MASS of Type RG4000 plank is 2000 kg. MASS of Type RG3500 plank is 1750 kg. The mass shall be clearly and permanently marked on a side surface.
- M20 FERRULES shall be Grade 316 stainless steel footed ferrules - either:

Registered Supplier	Product Number (M20)
Reid	FE20095SS
Ancon	FF2096S316
- LIFTING, TRANSPORTATION AND STORAGE: Planks shall not be moved before attaining a minimum strength of 32 MPa. Lifting shall be in accordance with the Lifting Details diagram. Transport and storage shall be in accordance with MRTS72.
- DIMENSIONS are in millimetres unless shown otherwise.



Departmental Specifications:
MRTS70 Concrete.
MRTS71 Reinforcing Steel.
MRTS72 Manufacture of Precast Elements.

Australian and International Standards:
AS/NZS 4680 Hot-dip Galvanized (Zinc) Coatings on Fabricated Ferrous Articles.
ASTM A276 Standard Specification for Stainless Steel Bars and Shapes.
BS 6744 Stainless Steel Reinforcement for use in Concrete.

Department of Transport and Main Roads			
PRECAST PLANKS FOR BOAT RAMP			
TYPES RG4000 AND RG3500		A3	Standard Drawing No
		Not to Scale	SD4000
			Date 7/2023
A	B	C	D