

RECTANGULAR LAMINATED ELASTOMERIC BEARING

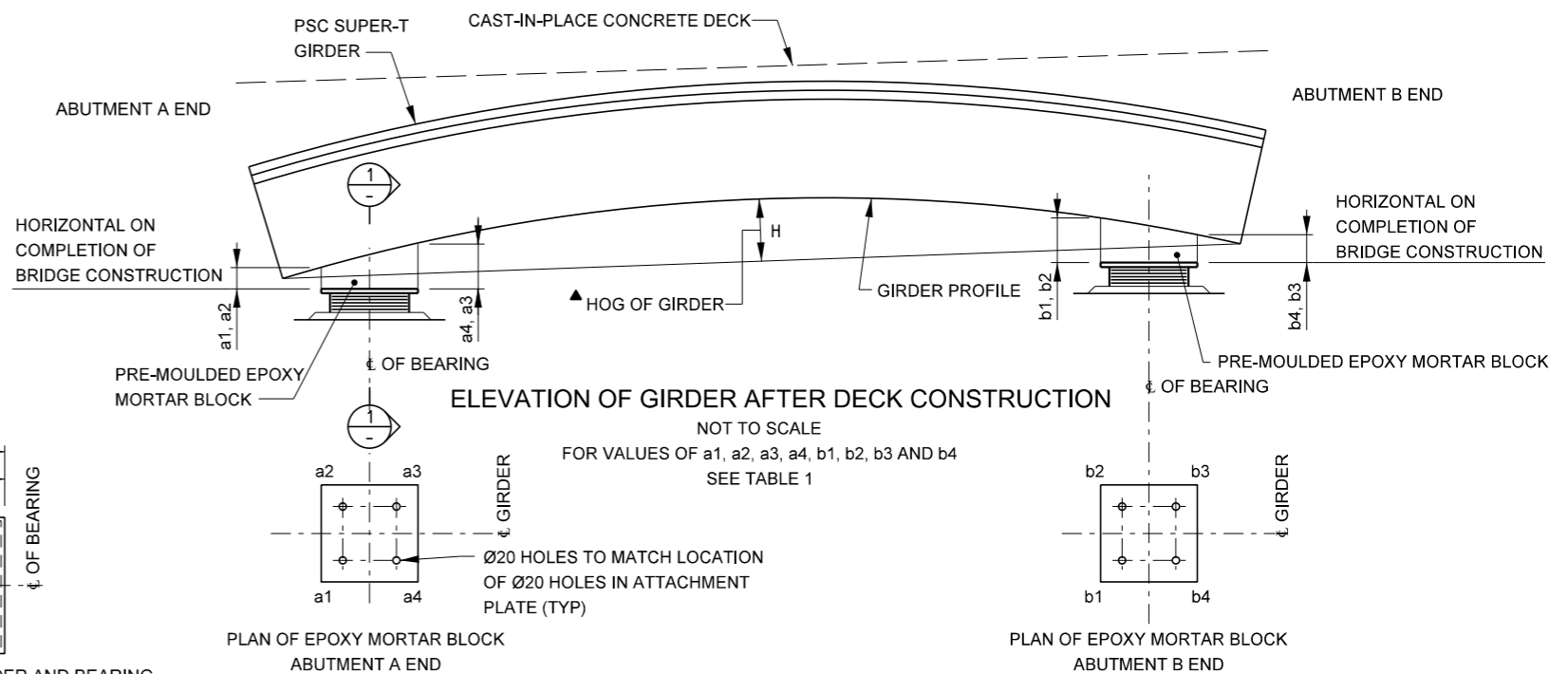
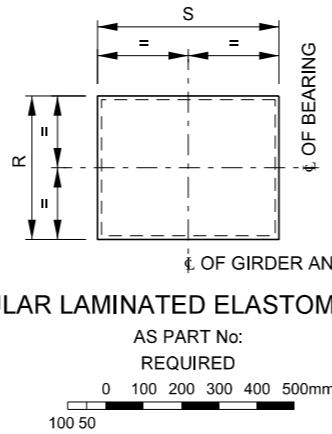


TABLE 1

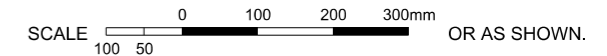
RANGE OF HOG ▲ OF GIRDER	VERTICAL DIMENSION							
	a1	a2	a3	a4	b1	b2	b3	b4
H1 - H2	*	*	*	*	*	*	*	*
H2 - H3	*	*	*	*	*	*	*	*
H3 - H4	*	*	*	*	*	*	*	*

- ▲ DENOTES HOG OF GIRDER SHALL BE MEASURED NOT MORE THAN 2 WEEKS PRIOR TO ERECTION OF GIRDER. IF THE MEASURED HOG IS OUTSIDE THE RANGE OF HOG GIVEN IN TABLE 1, THE VALUES OF 'a1 - a4' AND 'b1 - b4' INCLUSIVE SHALL BE ADJUSTED BY THE PRINCIPAL.
- * DENOTES THE DIMENSIONS OF THE PRE-MOULDED EPOXY MORTAR BLOCKS THAT HAVE BEEN DERIVED BY THE DESIGNER TAKING INTO ACCOUNT THE FOLLOWING:
 - THE ESTIMATED HOG OF THE GIRDER NOT MORE THAN TWO WEEKS PRIOR TO GIRDER ERECTION (FIRST COLUMN IN TABLE 1)
 - THE DEFLECTION OF THE GIRDER DUE TO THE CAST-IN-PLACE CONCRETE DECK
 - THE CROSSFALL AND THE LONGITUDINAL GRADE OF THE GIRDER BETWEEN SUPPORTED ENDS

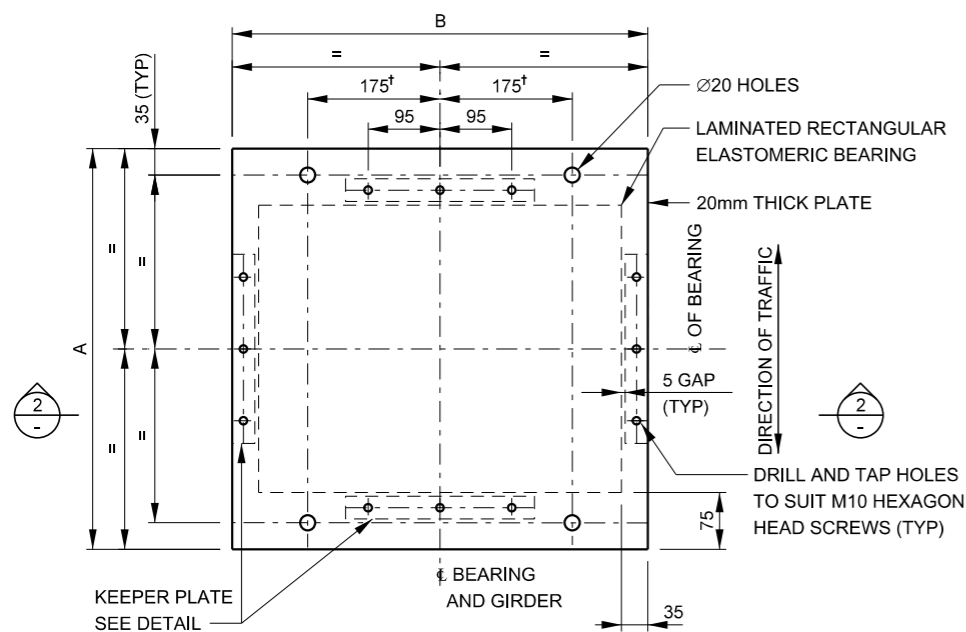
BEARING INSTALLATION SEQUENCE

1. PRIOR TO CONSTRUCTING CEMENT PADS AND EPOXY MORTAR BLOCKS, SUBMIT DOCUMENTATIONS FOR HOLD POINT RELEASE IN ACCORDANCE WITH RMS SPECIFICATION B284.
2. CONSTRUCT CEMENT MORTAR PADS.
3. MEASURE THE GIRDER HOGS NOT MORE THAN 2 WEEKS PRIOR TO ERECTION OF GIRDER.
4. CAST EPOXY MORTAR BLOCK DIRECTLY ON TOP OF THE TOP STEEL ATTACHMENT PLATE TO THE DIMENSIONS GIVEN IN TABLE 1 TO SUIT MEASURED HOG.
5. INSTALL ELASTOMERIC BEARINGS ON TOP OF CEMENT MORTAR PADS.
6. THE ATTACHMENT PLATE WITH EPOXY MORTAR BLOCK SHALL BE FIXED TO THE SOFFIT OF THE GIRDER BY BUTTERING A SUITABLE EPOXY PASTE EVENLY ON THE FULL SURFACE AREA OF THE TOP OF THE EPOXY MORTAR BLOCK, EXCEPT OVER THE PREDRILLED HOLES TO ENSURE FULL CONTACT.
7. BOLT EPOXY BLOCK TO SOFFIT OF GIRDER.
8. EXCESS EPOXY PASTE SHALL BE WIPED CLEAN.
9. CARRY OUT FINAL CHECK OF a1 - b4 DIMENSIONS PRIOR TO EPOXY PASTE HARDENING AND IMMEDIATELY AFTER INSTALLATION.
10. ERECT GIRDER ON TOP OF ELASTOMERIC BEARINGS AND BRACE AS NECESSARY.

GENERAL NOTES

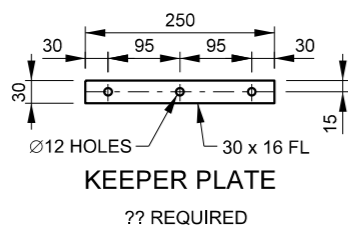


MINIMUM 28 DAY COMPRESSIVE STRENGTH OF EPOXY MORTAR AND CEMENT MORTAR MUST BE 40 MPa PRIOR TO BEARING INSTALLATION. THE MIX RATIO OF EPOXY AND SAND AND THE TYPE OF SAND FOR THE EPOXY MORTAR BLOCK MUST BE IN ACCORDANCE WITH THE EPOXY MANUFACTURER'S SPECIFICATION. EPOXY MORTAR BLOCKS MUST BE CONSTRUCTED NOT MORE THAN 2 WEEKS PRIOR TO THE ERECTION OF THE GIRDER. THE SIDES OF THE EPOXY MORTAR PAD SHALL BE FORMED VERTICAL AND FINISHED SMOOTH. EPOXY MORTAR BLOCKS TO BE TAGGED APPROPRIATELY. THE MINIMUM THICKNESS OF EPOXY MORTAR BLOCKS TO BE 10mm. THE MINIMUM THICKNESS OF CEMENT MORTAR PAD TO BE 20mm. STEEL PLATE MUST CONFORM TO AS/NZS 3678-250, EXCEPT WHERE USED WITH CONCRETE EXPOSURE CLASSIFICATION B2, STAINLESS STEEL PLATE, GRADE 316 TO ASTM A240M MUST BE USED. ALL FASTENERS SHALL CONFORM TO THE REQUIREMENTS OF ROADS AND MARITIME SERVICE QA SPECIFICATION B240. SECURING BOLTS SHALL BE PRODUCT GRADE C IN ACCORDANCE WITH AS/NZS 1111.1. HEXAGON HEAD SCREWS SHALL BE PRODUCT GRADE C IN ACCORDANCE WITH AS/NZS 1111.2. THE BOLTING CATEGORY FOR PRODUCT GRADE C BOLTS AND SCREWS SHALL BE 4.6/S IN ACCORDANCE WITH AS 5100.6. TAPERED WASHERS MUST CONFORM WITH MATERIAL PROPERTIES AS SPECIFIED IN AS/NZS 1237.1. ATTACHMENT PLATES WITH BOLTS AND WASHERS MUST BE HOT-DIP GALVANIZED AFTER FABRICATION, EXCEPT WHERE THEY ARE MADE FROM STAINLESS STEEL. EXPOSED EDGES OF STEEL PLATES MUST BE ROUNDED TO A RADIUS OF 1.5mm PRIOR TO GALVANIZING. VALUES OF A, B, R, S, H, m, L, Y AND RL'X' MUST BE DETERMINED BY THE DESIGNER. A SINGLE MACHINED PLATE MAY BE USED IN LIEU OF THE PRE-MOULDED EPOXY MORTAR BLOCK/STEEL PLATE SYSTEM. IF A SINGLE MACHINED PLATE IS USED, THE VALUES OF a1 - a4 AND b1 - b4 INCLUSIVE IN TABLE 1 SHALL BE INCREASED TO ALLOW FOR THE 20mm THICK ATTACHMENT PLATE. THIS DRAWING APPLIES TO SIMPLY SUPPORTED GIRDERS ONLY, INCLUDING THOSE WITH LINK SLABS.



STEEL ATTACHMENT PLATE ASSEMBLY

?? ASSEMBLIES REQUIRED
 † DENOTES VALUE TO BE VARIED IF CENTRELINE OF GIRDER IS OFFSET FROM CENTRELINE OF BEARING FOR $m > 3\%$



APPROVED FOR USE <i>W. Ariyaratne</i> DIRECTOR BRIDGES AND STRUCTURES 21.12.2018 DATE	Transport Roads & Maritime Services SEND FEEDBACK ON THIS STANDARD DRAWING TO: standardbridgedrawings@rms.nsw.gov.au EDMS No DS2017/002818	STANDARD DRAWING SUPER T GIRDER RECTANGULAR BEARING DETAILS	STATUS ISSUED ISSUE DATE DEC 2018 REVISION ISSUE 1 STANDARD DRAWING No B0214
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