STANDARD DRAWING

CAST-IN PLACE CONCRETE DECK

1

30 x 16 FL

= 2

MORTAR BLOCK

CAST-IN M16 GALVANIZED FERRULES

2

LAMINATED RECTANGULAR STEEL ATTACHMENT PLATE ASSEMBLY

SEE DETAIL

KEEPER PLATE

OF BEARING

RECTANGULAR LAMINATED ELASTOMERIC BEARING

AS PART no:

Table 1

<table>
<thead>
<tr>
<th>RANGE OF HOG of GIRDER</th>
<th>VERTICAL DIMENSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>a1 - b1</td>
<td>a2 - b2</td>
</tr>
<tr>
<td>0</td>
<td>100</td>
</tr>
</tbody>
</table>

NOTE:

1. PRIOR TO CONSTRUCTING CEMENT PADS AND EPOXY MORTAR BLOCKS, SUBMIT DOCUMENTATIONS FOR HOLD POINT RELEASE IN ACCORDANCE WITH RMS SPECIFICATION B394.
2. CONSTRUCT CEMENT MORTAR PADS.
3. MEASURE THE 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. THE ATTACHMENT PLATE WITH EPOXY MORTAR BLOCK SHALL BE FIXED TO THE SOFFIT OF THE GIRDER BY BUTTERING A SUITABLE SEALING VITRECTEX PASTE EVENLY ON THE FULL SURFACE AREA OF THE TOP OF THE EPOXY MORTAR BLOCK, EXCEPT OVER THE PREDRILLED HOLES TO ENSURE FULL CONTACT.
6. BOLT EPOXY BLOCK TO SOFFIT OF GIRDER.
7. EPOXY PASTE MUST BE APPLIED IN SUCH A MANNER AS TO ENSURE TRANSMISSION OF THE LOAD EVENLY. A DETAILED PLUMBING PATTERN OF BOLTS TO BE USED FOR THE ATTACHMENT PLATE. THE BOLTING CATEGORY FOR PRODUCT GRADE C BOLTS AND SCREWS SHALL BE AS1111.2 IN ACCORDANCE WITH AS1111.1.
8. ATTACHMENT PLATES MUST BE PLAIN STEEL, STEEL PLATE MUST CONFORM TO AS/NZS 3678-250, EXCEPT WHERE USED WITH MATERIALS IDENTIFIED AS SPECIFIED IN AS/NZS 1332.1.
9. SCREWING BOLTS SHALL BE PRODUCT GRADE C IN ACCORDANCE WITH AS/NZS 1237.1.
10. HEXAGON HEAD SCREWS SHALL BE PRODUCT GRADE C IN ACCORDANCE WITH AS/NZS 1237.1.

GENERAL NOTES

STANDARD DRAWING No

SUPER T GIRDER

RECTANGULAR BEARING DETAILS

DENTOS 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' INCLUSIVELY SHALL BE ADJUSTED BY THE PRINCIPAL.

- THE DIMENSIONS OF THE PRE-MOULDED EPOXY MORTAR BLOCKS THAT HAVE BEEN DERIVED BY THE DESIGNER TAKING INTO ACCOUNT THE FOLLOWING:
- THE ESTIMATED HOGS of THE GIRDER NOT MORE THAN TWO YEARS 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 ERECTION OF GIRDER

BEARING INSTALLATION SEQUENCE

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MINIMUM 28 DAY COMPRESSIVE STRENGTH OF EPOXY 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 boxes of the epoxy mortar block must be formed vertically and finished smooth. Epoxy mortar blocks are 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/1863.293, except where used with concrete exposure classification B2, stainless steel plate.

Grade 316 to ASTM A240 must be used. All fasteners shall conform to the requirements of Roads and Maritime Service QA specification B11. Securing bolts shall be product grade C in accordance with AS1111.

Epoxy blocks of steel plates are to be rounded to a radius of 15mm 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 blocks when a plate system. If a single machined plate is used, the values of A1, a1 and b1, b4 inclusive in Table 1 shall be increased to allow for the 20mm thick attachment plate. This drawing applies to simply supported girder only, including those with link slabs.