### 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 girder hog shall be measured not more than 2 weeks prior to the erection of the 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.

- The values of a1 - a4 and b1 - b4 inclusive in Table 1 shall be adjusted by the principal.

- The minimum thickness of epoxy mortar blocks shall be 10 mm. Steel plates must conform to AS/NZS 1111 for service classification B2. Stainless steel plate, grade 316 to ASTM A240 classification is B2. Where concrete exposure classification B3, stainless steel plate, grade 304 to AS/NZS 1111 must be used.

- Epoxy resin screws shall be product grade 6 in accordance with AS/NZS 1111. Epoxy resin screws shall be product grade 6 in accordance with AS/NZS 1111.

- The minimum Engagement of thread in tapered washers - ISO 4018 - M10 x 30 - 4.6/S in accordance with AS/NZS 1237.1.

### Bearing Installation Sequence

1. Construct cement mortar pads.
2. Erect girder on to elastomeric bearings and brace as necessary.
3. Install elastomeric bearings on to cement mortar pads.
4. Fit steel attachment plates with pre-moulded epoxy mortar blocks and keepers plates on to girder or spans using an epoxy resin.
5. Erect girder on to elastomeric bearings and brace as necessary.

### Table 1

<table>
<thead>
<tr>
<th>Range of Hog</th>
<th>Vertical Dimension</th>
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</thead>
<tbody>
<tr>
<td>a1, a2, a3, a4</td>
<td>b1, b2, b3, b4</td>
</tr>
</tbody>
</table>

- Epoxy Mortar Block/Sand and the type of sand for the epoxy mortar block must be in accordance with the epoxy manufacturer’s specification.

- Hexagonal head screws shall be product grade 6 in accordance with AS/NZS 1111. Tapered washers must conform to material properties as specified in AS/NZS 1237.1.

- All fasteners shall conform to the requirements of Roads and Maritime Service (RMS) Specification 5000-01.

- Epoxy resin screws shall be product grade 6 in accordance with AS/NZS 1111.

- The minimum Engagement of thread in tapered washers - ISO 4018 - M10 x 30 - 4.6/S in accordance with AS/NZS 1237.1.

### Rectangular Laminated Elastomeric Bearing

- Keepers and washers must be hot-dip galvanized after fabrication, except where they are made from stainless steel.

- Epoxy mortar blocks and steel plates must be fixed to the soffit of the girder using a suitable epoxy resin.

- The minimum thickness of epoxy mortar blocks shall be 10 mm.

- Steel plates must conform to AS/NZS 1111 for service classification B2. Stainless steel plate, grade 316 to ASTM A240 classification is B2. Where concrete exposure classification B3, stainless steel plate, grade 304 to AS/NZS 1111 must be used.

- Epoxy resin screws shall be product grade 6 in accordance with AS/NZS 1111.

- The minimum Engagement of thread in tapered washers - ISO 4018 - M10 x 30 - 4.6/S in accordance with AS/NZS 1237.1.

- Tapered washers must conform to material properties as specified in AS/NZS 1237.1.

- The minimum thickness of epoxy mortar blocks shall be 10 mm.

- Steel plates must conform to AS/NZS 1111 for service classification B2. Stainless steel plate, grade 316 to ASTM A240 classification is B2. Where concrete exposure classification B3, stainless steel plate, grade 304 to AS/NZS 1111 must be used.

- Epoxy resin screws shall be product grade 6 in accordance with AS/NZS 1111.

- The minimum Engagement of thread in tapered washers - ISO 4018 - M10 x 30 - 4.6/S in accordance with AS/NZS 1237.1.