**PART W40**

**REPAIR OF TIMBER PILES WITH EPOXY RESIN OR CEMENTITIOUS GROUT**

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**1. GENERAL**

This Part covers the repair of piles by encapsulating the timber in either epoxy resin or cementitious grout.

The type of repair to be used must be as indicated on the Drawings. The Contractor must inspect all piles at the site and report to the Superintendent any piles that may need repair but are not shown on the Drawings as such.

**2. MATERIALS**

The Contractor must supply all materials required for the repair of the piles.

**3. METHODOLOGY**

For both types of repair system, the Contractor must undertake the repair in accordance with the Contractor’s Methodology Statement.

At a minimum, the Contractor’s Methodology Statement must detail the following:

* extent of marine growth, debris and decomposed timber to be removed prior to the repair;
* method of removing marine growth, debris and decomposed timber;
* depth below seabed of pile to be removed if total loss of pile section has occurred;
* length of pile sleeve to be used to form the epoxy or grout;
* method of treating large cavities in the timber;
* proprietary products to be used, instruction for their use and source of supply;
* product performance characteristics to be achieved;
* method of avoiding honeycombing or segregation; and
* method of verifying integrity of repair.

**4. WARRANTY**

The Contractor must warrant all repair work for a period of 2 years, including but not limited to the loss of strength of the epoxy or grout, erosion of the product under the action of seawater, reduced flexibility and cracking.

**5. PAYMENT**

Payment for pile repair will be made per number of piles depending on their row location, and must be inclusive of all work associated with the repair of each pile including the removal, demolition and reinstatement of timber bracing.

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