

**ITEM 10607.9802 M - REPLACEMENT TONGUE & GROOVE PLANKS ON WOOD NOISE BARRIER WALL PANELS**

**DESCRIPTION**

Under this item, the Contractor shall furnish and attach tongue and groove sheathing planks to match existing sheathing to repair the damaged panels of the noise barrier wall at the locations shown in the contract documents or as ordered by the Engineer.

**MATERIALS**

The material detailed in the proposal used to replace damaged planks on the wood noise barrier wall, shall meet requirements specified in the following subsections of the Standard Specifications:

Water Preservative - Water Borne	708-31
Stress Graded Timber and Lumber	712-14
Galvanized Coatings	719-01, Type II

Additional requirements for the replacement planks shall be as follows:

Lumber for sheathing delivered to the site shall be No. 1 grade, per Southern Pine Inspection Bureau Grading Rules, Table 2, or other National Grading Rules as approved by the Engineer, and shall be straight, sound, square edged, free from shakes, loose knots, or decay. It shall be preservative treated in accordance with Subsection 708-31. Wood Preservative - Water Borne except minimum retention shall be 9.6 kg/m<sup>3</sup>. It shall be kiln dried to a maximum moisture content of 19% after treatment.

Sheathing shall be double depth tongue and groove. Sheathing shall be classified as "Planks" and shall have a design value of 10,000 kPa or greater after adjustment for wind loading and wet service conditions. All stresses are extreme fiber bending stresses and use classifications as defined in ASTM D245.

Hardware used for attachment of planks to the post shall be standard quality stainless steel 16d Spiral Shank nails acceptable to the Engineer.

**Basis of Acceptance** Criteria for acceptance shall be based on conformance to applicable standards as stated elsewhere in this specification and in the contract documents.

**CONSTRUCTION DETAILS**

All existing damaged planks shall be removed from the noise barrier wall panel. Replacement planks shall be attached securely to the satisfaction of the Engineer. Wood planks shall be nailed as detailed in the contract documents.

Damaged planks existing at the time of award of contract shall be replaced by the Contractor within a period of 60 calendar days after the award date. Planks damaged subsequent to award of contract, shall be replaced within 45 calendar days after the Contractor receives working orders from the Engineer. All cuts made after preservative treatment shall be carefully trimmed and coated in accordance with AWPA Specification M-4 to the satisfaction of the Engineer.

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Method of replacement will be subject to approval by the Engineer.

Damaged planks that have been removed shall be suitably disposed off the site of work.

**METHOD OF MEASUREMENT**

Wood noise barrier wall replacement planks will be measured horizontally by the number of linear meters of planks actually installed in accordance with this specification.

**BASIS OF PAYMENT**

No separate payment will be made to differentiate between plank sizes. The unit price bid per linear meter shall include the cost of furnishing all labor, materials, equipment and tools necessary to complete the work; reinstallation of other components necessary to complete the work; also all excavation and disposal of surplus materials.