

## **PART 1 - GENERAL**

### **1.1 REFERENCES**

- .1 American Wood-Preservers' Association (AWPA)
  - .1 AWPA M2-01, Standard Inspection of Treated Wood Products.
  - .2 AWPA M4-06, Standard for the Care of Preservative-Treated Wood Products.
- .2 Canadian Standards Association (CSA)
  - .1 CSA O80 Series-97 (R2007), Wood Preservation.
  - .2 CSA O80.201-97, Standard for Hydrocarbon Solvents for Preservatives. This Standard covers hydrocarbon solvents for preparing solutions of preservatives. This is not stand alone specification.
  - .3 CSA O322-02, Procedure for Certification of Pressure-Treated Wood Materials for use in Preserved Wood Foundations.

### **1.2 QUALITY ASSURANCE**

- .1 Testing of products treated with preservative by pressure impregnation will be carried out by the manufacturer's testing laboratory to AWPA M2, and revisions specified in CSA O80 Series, Supplementary Requirements to AWPA M2.
- .2 Inspection and testing of timber materials will be carried out by the manufacturer.

### **1.3 CERTIFICATES AND ASSAY RETENTION RESULTS**

- .1 Submit certificates and assay retention results in accordance with Section 01 33 00 - Submittal Procedures.
- .2 For products treated with preservative by pressure impregnation submit following information certified by authorized signing officer of treatment plant:
  - .1 Information listed in AWPA M2 and revisions specified in CSA O80 Series, Supplementary Requirement to AWPA M2 applicable to specified treatment.
  - .2 Moisture content after drying following treatment with water-borne preservative.
  - .3 Assay retention results representing each treated batch of supplied timber.
  - .4 Acceptable types of paint, stain, and clear finishes that may be used over treated materials to be finished after treatment.

**PART 1 - GENERAL**  
**(CONT'D)**

**1.4 WASTE MANAGEMENT AND DISPOSAL**

- .1 Do not dispose of preservative treated wood through incineration.
- .2 Do not dispose of preservative treated wood with other materials destined for recycling or re-use.
- .3 Dispose of treated wood, end pieces, wood scraps and sawdust at sanitary landfill approved by Departmental Representative.
- .4 Dispose of unused wood preservative material at official hazardous material collections site approved by Departmental Representative.
- .5 Do not dispose of unused preservative material into sewer system, into streams, lakes, onto ground or in other location where they will pose health or environmental hazard.

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- .1 Preservative: to CSA-O80 Series.
- .2 Solvent: to CSA-O80.201.

**2.2 PRESERVATIVE TREATMENTS**

- .1 Treat to CSA O80, commodity standard O80.18, Table 1 and its referenced standards, with the following minimum assay retentions:

Species	CCA kg/m <sup>3</sup>	ACA kg/m <sup>3</sup>
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Dimension Timber:

- Douglas Fir	24	24
- Western/Eastern Hemlock	24	24
- Hemlock, Douglas Fir (Wheelguard, Wheelguard Blocking)	10	10
- Birch or Maple	Treat to Refusal	

**PART 2 - PRODUCTS**  
**(CONT'D)**

**2.2 PRESERVATIVE TREATMENTS**  
**(CONT'D)**

.1 (cont'd)

Note: Birch or maple must be air dried for six (6) months in weather protected environment or kiln dried.

**2.3 ORDERING TREATED TIMBER**

- .1 Ordering of material is to follow the requirements of the contract such that field cutting of treated material is essentially avoided and is used as a last resort and only if authorized by the Departmental Representative.

**PART 3 - EXECUTION**

**3.1 FIELD TREATMENT**

- .1 Handle pressure treated material in a manner that will avoid damage which may expose untreated material. Rejection of any damaged material may result and replacement will be at the Contractor's expense.
- .2 Fill all bored bolt holes with preservative immediately after boring. Use a pressurized container with hose to apply preservative, or some alternate method acceptable to the Departmental Representative.
- .3 Fill all unused bored holes and spike holes with tight fitting treated wooden plugs.

**3.2 CUTTING**

- .1 Field cuts, if authorized, are to receive three (3) liberal coats of the applicable preservative applied to dry wood on each application.

**3.3 FIELD QUALITY**

- .1 Timbers which contain rot, splits exposing untreated wood, excessive wane, or timbers which cannot be fastened in the work so as to be structurally sound are unacceptable.

**PART 3 - EXECUTION**  
**(CONT'D)**

**3.3 FIELD QUALITY**  
**(CONT'D)**

- .2 The Departmental Representative reserves the right to carry out field testing of treated timber for penetration and retention of preservative. Timber not meeting the requirements of the specification may be rejected for use under the contract.