

**Part 1            General**

**1.1               RELATED REQUIREMENTS**

- .1       Section 06 10 00 – Rough Carpentry
- .2       Section 31 53 13.01 – Timber Cribwork

**1.2               REFERENCES**

- .1       Canadian Standards Association (CSA International)
  - .1       CSA O80 Series-97(R2002) - O80S2-05, Wood Preservation.
  - .2       CSA O80.201-M89, This Standard covers hydrocarbon solvents for preparing solutions of preservatives.

**1.3               ACTION/INFORMATIONAL SUBMITTALS**

- .1       Submit submittal submissions: in accordance with Section 01 33 00 - Submittal Procedures.
- .2       Quality assurance submittals:
  - .1       Submit certificates 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       Moisture content after drying following treatment with water-borne preservative.
    - .2       Acceptable types of paint, stain, and clear finishes that may be used over treated materials to be finished after treatment.

**1.4               QUALITY ASSURANCE**

- .1       Inspection and testing of materials intensively treated with a preservative will be done by a designated testing laboratory in accordance with CSA O80 standard. Provide quality assurance documents immediately after the completion of the first inspections and tests during production to enable continuous verification of results by the Departmental Representative. For each delivery of treated wood, the Contractor shall provide the Departmental Representative, at least 7 days before delivery, with a certificate of conformity containing the following information for each batch of production:
  - .1       The essence of the treated wood, as well as its density (kg/m<sup>3</sup>);
  - .2       The proportion of the surfaces/sapwood;
  - .3       The name and membership of the recognized classification agency;
  - .4       The identity of the treatment plant;
  - .5       The type of preservative;
  - .6       The date of treatment and the date of sampling;
  - .7       The number in the production batch of the treatment;
  - .8       The volume of treated wood in cubic meters of the production batch;
  - .9       The nominal dimensions in mm and the amount of pieces in the production batch;

- .10 The results of the retention test (kg/m<sup>3</sup>) and the corresponding requirement of the CAN/CSA O80 standard, Wood Preservation;
- .11 The results of the penetration test (kg/m<sup>3</sup>) and the corresponding requirement of the CAN/CSA O80 standard, Wood Preservation;
- .12 The storage or shipping point.
- .2 The Departmental Representative will handle the recruitment of independent testing laboratories and inspection services to carry out additional checks, if deemed necessary, following the receipt of quality assurance reports from the Supplier. All costs will be charged to the Departmental Representative. If there are any inconsistencies, additional testing agency fees incurred due to the correction of inconsistencies will be charged to the Supplier.

## **1.5 DELIVERY, STORAGE, AND HANDLING**

- .1 Waste Management and Disposal:
  - .1 Separate waste materials for reuse/recycling or elimination in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

## **Part 2 Products**

### **2.1 MATERIALS**

- .1 Preservatives: odourless with water (water soluble) for treatment with salts, giving the wood a colourless finish and with the standards of CSA O80 series.
- .2 Preservatives: maximum VOC limit 350 g/L.

## **Part 3 Execution**

### **3.1 APPLICATION: PRESERVATIVE**

- .1 Treat all wood pieces following CAN/CSA-O80-M standard for use in salty water and depending on the selected essence, using preservative, until a net retention of at least 24 kg per cubic meter, or total saturation, of wood. In the case of saturation, run tests and provide the retention rate reached.
- .2 Following water-borne preservative treatment, dry material to maximum moisture content of 19%.

### **3.2 APPLICATION: FIELD TREATMENT**

- .1 Comply with CSA O80.
- .2 Any pressure treated material, requiring cutting, should be coated with three (3) layers of preservative while it is still dry, as required by CAN/CSA-080 standards. All holes made in the timber after the pressure treatment, should also be treated this way.
- .3 Remove chemical deposits on treated wood to receive applied finish.

**END OF SECTION**