

**Part 1            General**

**1.1                RELATED REQUIREMENTS**

- .1    Section 06 03 15 – Historic works – Repairs by splicing of wood components
- .2    Section 06 03 74 – Historic works – long-term treatment of wood

**1.2                REFERENCES**

- .1    Canadian General Standards Board (CGSB)
  - .1    CAN/CGSB-51.34-M86(R1988), Vapour Barrier, Polyethylene Sheet for Use in Building Construction.
- .2    CSA International
  - .1    CAN/CSA-O80 Series-08, Wood Preservation.
- .3    National Fire Protection Association (NFPA)
  - .1    NFPA 909-2010, Code for the Protection of Cultural Resources Properties, Museums, Libraries and Places of Worship.
  - .2    NFPA 914-2010, Code for Fire Protection of Historic Structures.
- .4    South Coast Air Quality Management District (SCAQMD), California State, Regulation XI. Source Specific Standards
  - .1    SCAQMD Rule 1113-A2011, Architectural Coatings.

**1.3                ACTION AND INFORMATIONAL SUBMITTALS**

- .1    Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2    Product Data:
  - .1    Submit manufacturer's instructions, printed product literature and data sheets for storage and protection of wood. Data sheets must include product characteristics, performance criteria, physical size, finish and limitations.
- .3    Shop Drawings:
  - .1    Submit drawings stamped and signed by professional engineer registered or licensed in Province of Québec, Canada.
  - .2    Submit drawings for shelter to Departmental Representative for review to ensure compliance with storage criteria.

**1.4                DELIVERY, STORAGE AND HANDLING**

- .1    Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
  - .2    Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
  - .3    Storage and Handling Requirements:
    - .1    Store materials off ground, indoors, in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
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- .2 Store and protect wood from nicks, scratches, and blemishes.
- .3 Replace defective or damaged materials with new.

## **1.5 ACCEPTABLE PRODUCTS AND MATERIALS**

- .1 Where a particular brand name is stipulated, see Instructions to Bidders for procedure for requesting approval of substitute materials and products

## **Part 2 Products**

### **2.1 MATERIALS**

- .1 Wood preservative: based on chromate copper arsenate (CCA)
- .2 Chromate Copper Arsenate: to CAN/CSA-O80.
- .3 Polyethylene sheet: to CAN/CGSB-51.34, Type 1, and 0.15 mm thick.
- .4 Paraffin wax: pure, white, odourless and tasteless in liquid form.
- .5 Burlap.
- .6 Wood blocks 200 x 200 mm.
- .7 Wood battens 25 x 20 mm.
- .8 Dimension lumber.

## **Part 3 Execution**

### **3.1 EXAMINATION**

- .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable.
  - .1 Visually inspect substrate in presence of Departmental Representative.
  - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
  - .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.
- .2 Inspect wood for evidence of fungi, mould, decay, damage or insect attack.
- .3 Accept wood free from evidence of fungi, mould, decay, damage or insect attack.
- .4 Stop work and report to Departmental Representative immediately evidence of deficiencies or insect and fungal attack which will affect scope of the Work, life safety and durability of finished product.

### **3.2 PREPARATION**

- .1 Site preparation.
    - .1 Ensure drainage of ground and surface at place of storage.
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- .2 Provide shelter in location approved by Departmental Representative.
- .2 Wood treatments.
- .3 Wood preservative treatment:
  - .1 Perform wood preservative treatment in accordance with Section 06 03 74 - Historic - Long-Term Treatment of Wood
  - .2 Dissolve and thoroughly mix preservative according to manufacturer's written instructions.
  - .3 Dig trench of sufficient size for wood stack.
  - .4 Lay several polyethylene sheets in trench with extra for covering wood.
  - .5 Lay stack in trench.
  - .6 Apply wood preservative.
  - .7 Cover wood with extra sheet.
  - .8 Allow penetration of wood preservative for time period specified in manufacturer's printed instructions and as directed by Departmental Representative.
- .4 Wax Treatment:
  - .1 Prepare paraffin wax according to manufacturer's written instructions.
  - .2 Apply paraffin wax to end grain of wood.

### **3.3 PROTECTION OF IN-PLACE CONDITIONS**

- .1 Protect wood elements, finished surfaces, material adjacent to area of work from damage during duration of the Work.

### **3.4 CONSTRUCTION AND STORAGE**

- .1 Storage criteria:
    - .1 Prevent direct contact with ground.
    - .2 Stack wood on levelled wood blocks above ground to allow for air circulation.
      - .1 Stack wood in layers separated by stickers/battens placed at end of stack and spaced 600 mm apart along the length of the wood.
    - .3 Cover with polyethylene sheet.
    - .4 Protect wood stack from direct sunlight and precipitation.
      - .1 Build roof over stack that extends beyond edges of stack by minimum 900 mm. Hold in place with heavy weights.
    - .5 Screen wood exposed to wood destroying insects or marine borers.
    - .6 Cover treated logs with polyethylene and maintain free air circulation.
    - .7 Maintain free air circulation by natural means for wood stored in container or other structure, attain specified moisture content.
  - .2 Air-dry stored wood: achieve 12% Moisture Content.
  - .3 Prevent shape distortion during air-drying process.
  - .4 Protect wood from theft and vandalism. Install protective fence.
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**3.5 CLEANING**

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
  - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.

**END OF SECTION**

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