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**PART 1        GENERAL**

**1.1            RELATED SECTIONS**

- .1        03 10 00 – Concrete Forming and Accessories

**1.2            REFERENCES**

- .1        Canadian Standards Association (CSA International)
  - .1        CSA B111-1974 (R2003), Wire Nails, Spikes and Staples.
  - .2        CSA O121-08 (R2013), Douglas Fir Plywood.
  - .3        CSA O141-05 (R2014), Softwood Lumber.
  - .4        CSA O151-09 (R2014), Canadian Softwood Plywood.
- .2        National Lumber Grades Authority (NLGA)
  - .1        Standard Grading Rules for Canadian Lumber 2014.

**1.3            ACTION AND INFORMATIONAL SUBMITTALS**

- .1        Submit in accordance with Section 01 33 00 - Submittal Procedures

**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 in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
  - .2        Store materials off ground with moisture barrier at both ground level and as a cover forming a well-ventilated enclosure, with drainage to prevent standing water.
  - .3        Replace defective or damaged materials with new.
  - .4        Store separated reusable wood waste convenient to cutting station and work areas.

**1.5            QUALITY ASSURANCE**

- .1        Lumber identification: by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.
- .2        Plywood identification: by grade mark in accordance with applicable CSA standards.
- .3        Plywood, OSB and wood based composite panel construction sheathing identification: by grademark in accordance with applicable CSA standards.

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## **PART 2 PRODUCTS**

### **2.1 STRUCTURAL FRAMING**

- .1 Lumber: softwood, S4S, moisture content 19% or less in accordance with following standards:
  - .1 CAN/CSA-O141.
  - .2 NLGA Standard Grading Rules for Canadian Lumber.

### **2.2 FURRING AND BLOCKING**

- .1 Furring, blocking, nailing strips, grounds, rough bucks, curbs, fascia backing and sleepers:
  - .1 S2S is acceptable for all purposes.
  - .2 Board sizes: "Standard" or better grade.
  - .3 Dimension sizes: "Standard" light framing or better grade.

### **2.3 PANEL MATERIALS**

- .1 Douglas fir plywood: to CSA O121, standard construction.
  - .1 Urea-formaldehyde free.
- .2 Canadian softwood plywood (CSP): to CSA O151, standard construction.
  - .1 Urea-formaldehyde free.

### **2.4 ACCESSORIES**

- .1 General purpose adhesive: to CAN/CGSB-71.26, cartridge loaded.
- .2 Nails, spikes and staples: to CSA B111.
- .3 Bolts: 12.5 mm diameter unless indicated otherwise, complete with nuts and washers.
- .4 Proprietary fasteners: toggle bolts, expansion shields and lag bolts, screws and lead or inorganic fibre plugs, explosive actuated fastening devices, recommended for purpose by manufacturer.
- .5 Fastener finishes:
  - .1 Galvanizing: to CAN/CSA-G164 ASTM A653/A653M, use galvanized fasteners for exterior work and pressure- preservative treated lumber.

### **2.5 WOOD PRESERVATIVE**

- .1 Surface-applied wood preservative: coloured, or copper naphthenate or 5% pentachlorophenol solution, water repellent preservative.
- .2 Pentachlorophenol use is restricted to building components that are in ground contact and subject to decay or insect attack only. Where used, pentachlorophenol-treated wood must be covered with two coats of an appropriate sealer.

- .3 Structures built with wood treated with pentachlorophenol and inorganic arsenicals must not be used for storing food nor should the wood come in contact with drinking water.

## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- .1 Verification of Conditions: verify conditions of substrates previously installed under other Sections or Contracts are acceptable for product installation in accordance with manufacturer's written instructions.
  - .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.

### **3.2 FRAMING INSTALLATION**

- .1 Install members true to line, levels and elevations, square and plumb.
- .2 Construct continuous members from pieces of longest practical length.
- .3 Install spanning members with "crown-edge" up.
- .4 Select exposed framing for appearance. Install lumber and panel materials so that grade-marks and other defacing marks are concealed or are removed by sanding where materials are left exposed.
- .5 Frame, anchor, fasten, tie and brace members to provide necessary strength and rigidity.
- .6 Countersink bolts where necessary to provide clearance for other work.
- .7 Install specified panel product for each application.

### **3.3 FURRING AND BLOCKING**

- .1 Install furring and blocking as required to space-out and support casework, cabinets, wall and ceiling finishes, facings, fascia, soffit, siding and other work as required.
- .2 Align and plumb faces of furring and blocking to tolerance of 1:600.
- .3 Install rough bucks, nailers and linings to rough openings as required to provide backing for frames and other work.
- .4 Install nailers, curbs and other wood supports as required and secure using galvanized steel fasteners.
- .5 Install all blocking that is not shown on the drawings, to facilitate the construction/installation of all mirrors, handrails, interior trim, fixtures, millwork, shelving, and miscellaneous specialties identified on the Architectural drawings and in

these specifications. The blocking of all the above to achieve the construction/installation of the items listed above, shall be included in the work. The contractor shall provide and pay for all blocking and submit shop drawings.

- .6 Install all blocking that is not shown on the drawings, to facilitate the installation/re-installation of all equipment and services in furred wall/partitions. The blocking of all the above to achieve the construction/installation of the items listed above, shall be included in the work. The contractor shall provide and pay for all blocking and submit shop drawings.

### **3.4 CLEANING**

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 – Cleaning.

**END OF SECTION**