

**Part 1 General****1.1 RELATED SECTIONS**

- .1 Division 01-General Requirements.

**1.2 REFERENCES**

- .1 Canadian Standards Association (CSA International)
  - .1 CSA B111-1974(R2003), Wire Nails, Spikes and Staples.
  - .2 CAN/CSA-G164-M92(R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.
  - .3 CSA O121-08, Douglas Fir Plywood.
  - .4 CAN/CSA-O141-05, Softwood Lumber.
  - .5 CSA O151-09, Canadian Softwood Plywood.
- .2 National Lumber Grades Authority (NLGA)
  - .1 Standard Grading Rules for Canadian Lumber 2000.

**1.3 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 grade mark in accordance with applicable CSA standards.

**1.4 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate and recycle waste materials in accordance with Section 01 00 10 - General Instructions.
- .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .3 Divert unused wood materials from landfill to recycling facility approved by Departmental Representative.
- .4 Do not dispose of preservative treated wood through incineration.
- .5 Do not dispose of preservative treated wood with materials destined for recycling or reuse.
- .6 Dispose of treated wood, end pieces, wood scraps and sawdust at sanitary landfill approved by Departmental Representative.
- .7 Dispose of unused wood preservative material at official hazardous material collections site approved by Departmental Representative.

- .8 Do not dispose of unused preservative material into sewer system, into streams, lakes, onto ground or in other locations where they will pose health or environmental hazard.

## **Part 2 Products**

### **2.1 LUMBER MATERIAL**

- .1 Lumber: unless specified otherwise, 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 Blocking, nailing strips, grounds, rough bucks, curbs, fascia backing and sleepers:
  - .1 Pressure Treated Lumber to CAN/CSA-080-Series-08
  - .2 Board sizes: "Standard" or better grade.
  - .3 Dimension sizes: "Standard" light framing or better grade.

### **2.2 PANEL MATERIALS**

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

### **2.3 ACCESSORIES**

- .1 Nails, spikes and staples: to CSA B111.
- .2 Bolts: 12.5mm diameter unless indicated otherwise, complete with nuts and washers.
- .3 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.

### **2.4 FINISHES**

- .1 Galvanizing: to CAN/CSA-G164, use galvanized fasteners for fire-retardant treated lumber.

### **2.5 WOOD PRESERVATIVE**

- .1 Surface-applied wood preservative: coloured, or copper naphthenate or 5% pentachlorophenol solution, water repellent preservative. Not to be site applied.
- .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.

**Part 3 Execution****3.1 PREPARATION**

- .1 Treat surfaces of material with wood preservative, at locations of end cuts or joints, when using Pressure Treated Wood..
- .2 Apply preservative by dipping, or by brush to completely saturate and maintain wet film on surface for minimum 3 minute soak on lumber and one minute soak on plywood.
- .3 Re-treat surfaces exposed by cutting, trimming or boring with liberal brush application of preservative before installation.
- .4 Pressure Treated wood is used for:
  - .1 Wood nailers, sleepers on roof deck.

**3.2 INSTALLATION**

- .1 Comply with requirements of NBC, supplemented by the following paragraphs.
- .2 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.
- .3 Align and plumb faces of furring and blocking to tolerance of 1:600.
- .4 Install rough bucks, nailers and linings to rough openings as required to provide backing for frames and other work, including but not limited to support for casework, cabinets, wall and ceiling finishes. .
- .5 Install wood nailers, curbs and other wood supports as required and secure using galvanized fasteners.
- .6 Install sleepers as indicated.
- .7 Use pressure treated material for:
  - .1 Wood cants, fascia backing, curbs, nailers, sleepers on roof deck
  - .2 Wood blocking at exterior walls

**3.3 ERECTION**

- .1 Frame, anchor, fasten, tie and brace members to provide necessary strength and rigidity.
- .2 Countersink bolts where necessary to provide clearance for other work.

**3.4 SCHEDULES**

- .1 Provide electrical equipment backboards for mounting electrical equipment as indicated. Use 19mm thick fire rated plywood. Install on furring around perimeter. Treat equipment backboards with fire retardant paint. Furring channels to be non-combustible.
- .2 Coordinate exact locations with Departmental Representative. Verify with local authorities having jurisdiction extend of wood, and furring use in these locations.

- .3      19mm thick fire retardant plywood to be used interior to walls at location of mounting of wall mounted equipment. Departmental Representative to coordinate these locations.

**END OF SECTION**