

**ROUGH CARPENTRY FOR MINOR WORKS****Part 1 General****1.1 RELATED SECTIONS**

- .1 Section 01 45 00 – Quality Control
- .2 Section 07 51 00 – Built-up Bituminous Roofing

**1.2 REFERENCES**

- .1 Canadian Standards Association (CSA International)
  - .1 CSA B111-1974(R1998), Wire Nails, Spikes and Staples.
  - .2 CAN/CSA-G164-M92(R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.
  - .3 CSA O121-M1978(R1998), Douglas Fir Plywood.
  - .4 CAN/CSA-O141-F91(R1999), Softwood Lumber.
  - .5 CAN/CSA-O325.0-F92(R1998), Construction Sheathing.
- .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 grademark in accordance with applicable CSA standards.

**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 Furring, blocking, nailing strips, grounds, rough bucks, cants, curbs, fascia backing and sleepers:
  - .1 Board sizes: "Standard" or better grade.
  - .2 Dimension sizes: "Standard" light framing or better grade.
  - .3 Post and timbers sizes: "Standard" or better grade.

**ROUGH CARPENTRY FOR MINOR WORKS****2.2 PANEL MATERIALS**

- .1 Douglas fir plywood (DFP): to CSA O121, standard construction.

**2.3 ACCESSORIES**

- .1 Nails, spikes and staples: to CSA B111.
- .2 Bolts: 12.5 mm 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.
- .4 When piercing any membrane, proprietary fasteners must be screw types.

**2.4 FINISHES**

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

**2.5 WOOD PRESERVATIVE**

- .1 Surface-applied wood preservative: factory-applied, coloured, with CAQ base or copper naphthenate water repellent preservative.
- .2 Treat materials in accordance with CSA O80, using CAQ preservative products in order to attain net water retention of minimum 4.0 kg/m<sup>3</sup> of wood.
- .3 Treat the plywood by pressure impregnation of fire retardant chemical products which conform to CSA O80.27.
  - .1 Following treatment, oven-dry the material until the humidity does not exceed 19%.

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

- .1 Treat surfaces of material with wood preservative, before installation.
- .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.

**3.2 INSTALLATION**

- .1 Comply with requirements of NBC, supplemented by the following paragraphs.

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- .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 wood cants, fascia backing, nailers, curbs and other wood supports as required and secure using galvanized steel fasteners.
  - .5 Install wood backing, dressed, tapered and recessed slightly below top surface of roof insulation for roof hopper.
  - .6 Install sleepers as indicated.
  - .7 Use caution when working with particle board. Use dust collectors and high quality respirator masks.

**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.

**END OF SECTION**