

1 GENERAL

1.01 REFERENCE STANDARDS

- .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM C1002 – Standard Specification for Steel Self-Piercing Tapping Screws for Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs
 - .2 ASTM C1177/C1177M – Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing
 - .3 ASTM C1280 – Standard Specification for Application of Exterior Gypsum Panel Products for Use as Sheathing
- .2 Canadian Standards Association (CSA)
 - .1 CSA B111 – Wire Nails, Spikes and Staples
 - .2 CAN/CSA-G164 – Hot Dip Galvanizing of Irregularly Shaped Articles
 - .3 CSA O80 Series – Wood Preservation
 - .4 CSA O121 – Douglas Fir Plywood
 - .5 CSA O141 – Softwood Lumber
 - .6 CSA O151 – Canadian Softwood Plywood
 - .7 CSA O325 – Construction Sheathing
- .3 National Research Council Canada (NRC)
 - .1 National Building Code of Canada (NBC)
- .4 National Lumber Grades Authority (NLGA)
 - .1 Standard Grading Rules for Canadian Lumber

1.02 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.

2 PRODUCTS

2.01 FRAMING AND STRUCTURAL MATERIALS

- .1 Lumber: unless specified otherwise, softwood, S4S, moisture content 19% (S-dry) or less in accordance with following standards:
 - .1 CSA O141.
 - .2 NLGA Standard Grading Rules for Canadian Lumber.

- .2 Machine stress-rated lumber: acceptable for all purposes.
- .3 Framing and board lumber: in accordance with NBC, except as follows:
 - .1 All sawn lumber: SPF series, NLGA No.1/No.2 grade or better.
- .4 Furring, blocking, nailing strips, grounds, rough bucks, 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.

2.02 PANEL MATERIALS

- .1 Plywood, OSB and wood based composites: to CSA O325.
- .2 Douglas fir plywood (DFP): to CSA O121, standard construction.
- .3 Canadian softwood plywood (CSP): to CSA O151, standard construction.
- .4 Glass fiber reinforced gypsum sheathing board: to ASTM C1177/C1177M, Type X, 13mm and 16mm thick as noted x longest practical length, square edges, fiberglass mat on face, back and long edges.
 - .1 Standard of acceptance: DensGlass Fireguard Sheathing, as manufactured by Georgia-Pacific Gypsum, or approved equal.
- .5 Panel materials shall have no added urea-formaldehyde.

2.03 ACCESSORIES

- .1 Fasteners: to CAN/CSA-G164, for exterior Work, and pressure- preservative treated lumber.
- .2 Nails, spikes and staples: to CSA B111.
- .3 Bolts: 12.5mm 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, recommended for purpose by manufacturer.

2.04 WOOD PRESERVATIVE

- .1 Surface-applied wood preservative: clear, copper naphthenate or 5% pentachlorophenol solution, water repellent preservative.
- .2 Preservative-treated lumber:
 - .1 Materials shall be treated to CAN/CSA O80 Series using waterborne preservative to obtain minimum net retention as recommended by CAN/CSA O80 Series as appropriate to end use.
 - .2 After treatment, dry material to maximum moisture content of 19%.

- .3 Use preservative-treated materials where indicated on drawings, and as follows:
 - .1 Wood cants, nailers, curbs, equipment support bases, blocking stripping, and similar members in connection with roofing, flashing, vapour barriers and waterproofing.
 - .2 All exterior wall rough bucks.

3 EXECUTION

3.01 PREPARATION

- .1 Treat surfaces of material with wood preservative where required, before installation.
- .2 Apply preservative by dipping, or by brush to completely saturate and maintain wet film on surface for minimum three (3) minute soak on lumber and one (1) minute soak on plywood.
- .3 Re-treat surfaces exposed by cutting, trimming or boring with liberal brush application of preservative before installation.

3.02 INSTALLATION

- .1 Comply with requirements of National Building Code of Canada (NBC), supplemented by the following paragraphs.
- .2 Install members true to line, levels and elevations, square and plumb.
- .3 Construct continuous members from pieces of longest practical length.
- .4 Install spanning members with “crown-edge” up.
- .5 Install furring and blocking as required to space-out and support wall and ceiling finishes, facings, fascia, soffit, siding and other Work as required.
- .6 Align and plumb faces of furring and blocking to tolerance of 1:600.
- .7 Install rough bucks, nailers and linings to rough openings as required to provide backing for frames and other Work.
- .8 Install wood cants, fascia backing, nailers, curbs and other wood supports as required and secure using galvanized steel fasteners.
- .9 Install sleepers as indicated.
- .10 Frame, anchor, fasten, tie and brace members to provide necessary strength and rigidity.
- .11 Countersink bolts where necessary to provide clearance for other Work.
- .12 Use nailing disks for soft sheathing as recommended by sheathing manufacturer.

- .13 Install glass fiber reinforced gypsum sheathing board in accordance with ASTM C1280, and the manufacturer's recommendations.

END OF SECTION