

**PART 1 - GENERAL**

- 1.1 RELATED SECTIONS
- .1 Insulation.
- 1.2 REFERENCES
- .1 American Society for Testing and Materials (ASTM)
- .1 ASTM A 653/A653M-Latest Edition, Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanealed) by the Hot-Dip Process.
- .2 ASTM C 36/C36M-Latest Edition, Specification for Gypsum Wallboard.
- .3 ASTM C 578-Latest Edition, Specification for Rigid, Cellular Polystyrene Thermal Insulation.
- .4 ASTM D 1761-Latest Edition, Standard Test Methods for Mechanical Fasteners in Wood.
- .2 Canadian General Standards Board (CGSB)
- .1 CAN/CGSB-51.32-Latest Edition, Sheathing, Membrane, Breather Type.
- .2 CAN/CGSB-51.34-Latest Edition, Vapour Barrier, Polyethylene Sheet for Use in Building Construction.
- .3 Canadian Standards Association (CSA)
- .1 CSA B111-Latest Edition, Wire Nails, Spikes and Staples.
- .2 CAN/CSA-G164-Latest Edition, Hot Dip Galvanizing of Irregularly Shaped Articles.
- .3 CSA O112 Series-Latest Edition, CSA Standards for Wood Adhesives.
- .4 CSA O121-Latest Edition, Douglas Fir Plywood.
- .5 CAN/CSA-O141-Latest Edition, Softwood Lumber.
- .6 CSA O151-Latest Edition, Canadian Softwood Plywood.
- .7 CSA O153-Latest Edition, Poplar Plywood.
- .8 CAN/CSA-O325.0-Latest Edition, Construction Sheathing.
- .4 National Lumber Grades Authority (NLGA)
- .1 Standard Grading Rules for Canadian Lumber Latest Edition.
- 1.3 QUALITY ASSURANCE
- .1 Lumber by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.
- .2 Plywood, particleboard, OSB and wood based composite panels in accordance with CSA and ANSI standards.

**PART 2 - PRODUCTS****2.1 FRAMING AND  
STRUCTURAL  
MATERIALS**

- .1 Lumber: unless specified otherwise, softwood, S4S, moisture content 19% (S-dry) 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.

**2.2 PANEL MATERIALS**

- .1 Plywood, OSB and wood based composite panels: to CAN/CSA-O325.0.
- .2 Douglas fir plywood (DFP): to CSA O121, standard construction.
- .3 Canadian softwood plywood (CSP): to CSA O151, standard construction.
- .4 Poplar plywood (PP): to CSA O153, standard construction.
- .5 Insulating fiberboard sheathing: to CAN/CSA-A247.

**2.3 ACCESSORIES**

- .1 Polyethylene film: to CAN/CGSB-51.34, Type 1, 0.15 mm thick.
- .2 Air seal: closed cell polyurethane or polyethylene.
- .3 Sealants: Section 07 92 10.
- .4 General purpose adhesive: to CSA O112 Series.
- .5 Nails, spikes and staples: to CSA B111.
- .6 Bolts: 12.5 mm diameter unless indicated otherwise, complete with nuts and washers.
- .7 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.
- .8 Nailing discs: flat caps, minimum 25 mm diameter, minimum 0.4 mm thick, sheet metal, formed to prevent dishing. Bell or cup shapes not acceptable.

**2.4 FASTENER  
FINISHES**

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

**PART 3 - EXECUTION****3.1 PREPARATION**

- .1 Store wood products.

**3.2 INSTALLATION**

- .1 Comply with requirements of NBC 2010 Part 9 supplemented by 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 casework, cabinets, wall and ceiling finishes, facings, fascia, soffit, siding, electrical equipment mounting boards, and other work as required.
- .6 Install rough bucks, nailers and linings to rough openings as required to provide backing for frames and other work.
- .7 Install wood cants, fascia backing, nailers, curbs and other wood supports as required and secure using galvanized steel fasteners.

**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 Use nailing disks for soft sheathing as recommended by sheathing manufacturer.

**3.4 SCHEDULES**

- .1 Electrical equipment mounting boards:
  - .1 Fire retarded, pressure treated plywood, DFP or CSP square edge 19 mm thick, flame spread rating of 25 or less.
  - .2 Paint all surfaces of back boards and supports as specified in Section 09 91 23 before equipment installation. Colour shall be dark grey.