

**Part 1            General**

**1.1                REFERENCES**

- .1    ASTM International
  - .1    ASTM A123/A123M-13, Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
  - .2    ASTM A653/A653M-13, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanealed) by the Hot-Dip Process.
- .2    Canadian General Standards Board (CGSB)
  - .1    CAN/CGSB 51.34-M86, Vapour Barrier, Polyethylene Sheet for Use in Building Construction and amendment.
- .3    Canadian Standards Association (CSA)
  - .1    CSA B111-1974 (R2003), Wire Nails, Spikes and Staples.
  - .2    CSA O112.9-10, Evaluation of Adhesives for Structural Wood Products (Exterior Exposure).
  - .3    CSA O121-08, Douglas Fir Plywood.
  - .4    CSA O141-05, Softwood Lumber.
  - .5    CSA O151-09, Canadian Softwood Plywood.
- .4    National Lumber Grades Authority (NLGA)
  - .1    NLGA Standard Grading Rules for Canadian Lumber (2014 edition).

**1.2                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.

**1.3                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    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 and protect wood from nicks, scratches, and blemishes.
  - .3    Replace defective or damaged materials with new.

**Part 2 Products**

**2.1 FRAMING STRUCTURAL AND PANEL MATERIALS**

- .1 Lumber: 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 Furring, blocking, nailing strips, grounds, rough bucks, cants, curbs, fascia backing and sleepers:
  - .1 Use S2S or S4S materials.
  - .2 Board sizes: "Standard" or better grade.
  - .3 Dimension sizes: "Standard" light framing or better grade.
  - .4 Post and timbers sizes: "Standard" or better grade.
- .3 Plywood, OSB and wood based composite panels: CSA O325.
- .4 Douglas fir plywood (DFP): CSA O121, standard construction.
- .5 Canadian softwood plywood (CSP): CSA O151, standard construction.
- .6 Treated wood products: To CSA O80 Series.
- .7 Fire retardant treated wood: To CAN/ULC S102.
  - .1 Flame spread: Maximum 25.
  - .2 Smoke developed: Maximum 25.

**2.2 ACCESSORIES**

- .1 Air seal: Closed cell polyurethane or polyethylene.
- .2 Sealants: In accordance with Section 07 92 00 - Joint Sealants.
- .3 General purpose adhesive: CSA O112.9.
- .4 Nails, spikes and staples: CSA B111.
- .5 Bolts: 12.5 mm diameter unless indicated otherwise, complete with nuts and washers.
- .6 Proprietary fasteners: Toggle bolts, expansion shields and lag bolts, screws and lead or inorganic fibre plugs, recommended for purpose by manufacturer.
- .7 Joist hangers: Minimum 1 mm thick sheet steel, galvanized ZF001 coating designation.
- .8 Fasteners: Hot dipped galvanized steel to ASTM A123/A123M or ASTM A653/A653M for high humidity and treated wood locations, unfinished steel elsewhere.

**Part 3 Execution**

**3.1 EXAMINATION**

- .1 Verify conditions of substrates are acceptable for product installation in accordance with manufacturer's written instructions.
  - .1 Visually inspect substrate.
  - .2 Inform Departmental Representative of unacceptable conditions.
  - .3 Proceed with installation only after unacceptable conditions have been remedied.

**3.2 FURRING AND BLOCKING**

- .1 Install furring and blocking as required to space-out and support casework, cabinets, wall and ceiling finishes, audio-visual equipment mounting, electrical equipment mounting boards, architectural hardware, bathroom accessories, fire extinguisher brackets, and other work as required.
- .2 Install rough bucks, nailers, and linings to rough openings as required to provide backing for frames and other work.

**3.3 EQUIPMENT/ELECTRICAL MOUNTING BOARD**

- .1 Equipment/Electrical mounting board:
  - .1 Douglas Fir plywood, good one side.
  - .2 Size: 1220 x 2440 mm x 19 mm (48 x 96 x ¾ inch).
  - .3 Finish: Fire-retardant paint finish, refer to Section 09 91 00 – Painting.
  - .4 Fastening: Exposed stainless steel fasteners, at 400 mm (16 inches) o.c. unless otherwise specified.

**3.4 CLEANING**

- .1 Progress Cleaning: Clean in accordance with Section 01 74 11 - Cleaning.
- .2 Leave Work area clean at end of each day.
- .3 Final Cleaning: Upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
- .4 Waste Management: Remove waste materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

**3.5 PROTECTION**

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by rough carpentry installation.

**END OF SECTION**