

Approved: 2007-03-31

## **Part 1 General**

### **1.1 REFERENCES**

- .1 American National Standards Institute (ANSI)
  - .1 ANSI/NPA A208.1-1999, Particleboard, Mat Formed Wood.
- .2 American Society for Testing and Materials International (ASTM)
  - .1 ASTM A653/A653M-05a, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvaneal) by the Hot-Dip Process.
  - .2 ASTM C578-05a, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
  - .3 ASTM D1761-88(2000), Standard Test Methods for Mechanical Fasteners in Wood.
- .3 Canadian General Standards Board (CGSB)
  - .1 CAN/CGSB-11.3-M87, Hardboard.
  - .2 CAN/CGSB-51.32-M77, Sheathing, Membrane, Breather Type.
  - .3 CAN/CGSB-51.34-M86, Vapour Barrier, Polyethylene Sheet for Use in Building Construction.
- .4 Canadian Standards Association (CSA International)
  - .1 CSA A123.2-03, Asphalt Coated Roofing Sheets.
  - .2 CSA B111-1974(R2003), Wire Nails, Spikes and Staples.
  - .3 CAN/CSA-G164-M92(R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.
  - .4 CSA O112 Series-M1977(R2006), CSA Standards for Wood Adhesives.
  - .5 CSA O141-05, Softwood Lumber.
  - .6 CSA O151-04, Canadian Softwood Plywood.
  - .7 CAN/CSA-O325.0-92(R2003), Construction Sheathing.
- .5 National Lumber Grades Authority (NLGA)
  - .1 Standard Grading Rules for Canadian Lumber 2005.
- .6 Underwriters' Laboratories of Canada (ULC)
  - .1 CAN/ULC-S706-97, Mineral Fibre Thermal Insulation for Buildings.

### **1.2 SUBMITTALS**

- .1 Submit Submittal submissions: in accordance with Section 01 33 00 - Submittal Procedures .

### **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.

### **1.4 DELIVERY, STORAGE, AND HANDLING**

- .1 Waste Management and Disposal:
  - .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

## **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 CSA O141.
  - .2 NLGA Standard Grading Rules for Canadian Lumber.
- .2 Glued end-jointed (finger-jointed) lumber NLGA Special Products Standard SPS, are acceptable for window interior jambs and trim.
- .3 Framing and board lumber: in accordance with NBC.
- .4 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 Canadian softwood plywood (CSP): to CSA O151, standard construction.

### **2.3 ACCESSORIES**

- .1 Sealants: in accordance with Section 07 92 00 - Joint Sealants.
- .2 General purpose adhesive: to CSA O112 Series.
- .3 Nails, spikes and staples: to CSA B111.
- .4 Bolts: 12.5 mm diameter unless indicated otherwise, complete with nuts and washers.

- .5 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.
- .6 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 ASTM A653, use galvanized fasteners for exterior work pressure-preservative treated lumber.

## **Part 3 Execution**

### **3.1 PREPARATION**

- .1 Store wood products.

### **3.2 INSTALLATION**

- .1 Comply with requirements of NBC 2005 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 Select exposed framing for appearance. Install lumber and panel materials so that grade-marks and other defacing marks are concealed or are removed by sanding where materials are left exposed.
- .6 Install wall sheathing in accordance with manufacturer's printed instructions.
- .7 Install furring and blocking as required to space-out and support wall and ceiling finishes, facings, and other work as required.
- .8 Install furring to support siding applied vertically where there is no blocking and where sheathing is not suitable for direct nailing.
  - .1 Align and plumb faces of furring and blocking to tolerance of 1:360.
- .9 Install rough bucks, nailers and linings to rough openings as required to provide backing for frames and other work.
- .10 Install wood cants, fascia backing, nailers, curbs and other wood supports as required and secure using galvanized fasteners.
- .11 Install sleepers as indicated.
- .12 Use dust collectors and high quality respirator masks when cutting or sanding wood panels.

### **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.

**END OF SECTION**