

**Part 1 General**

**1.1 REFERENCES**

- .1 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.
- .2 Canadian Standards Association (CSA International)
  - .1 CSA A123.2-03, Asphalt Coated Roofing Sheets.
  - .2 CAN/CSA-A247-M86, Insulating Fiberboard.
  - .3 CSA B111-1974(R2003), Wire Nails, Spikes and Staples.
  - .4 CAN/CSA-G164-M92(R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.
  - .5 CSA O112 Series-M1977(R2006), CSA Standards for Wood Adhesives.
  - .6 CSA O121-M1978(R2003), Douglas Fir Plywood.
  - .7 CSA O141-05, Softwood Lumber.
  - .8 CSA O151-04, Canadian Softwood Plywood.
  - .9 CSA O153-M1980(R2003), Poplar Plywood.
  - .10 CAN/CSA-O325.0-92(R2003), Construction Sheathing.
  - .11 CSA O437 Series-93(R2006), Standards on OSB and Waferboard.
- .3 Forest Stewardship Council (FSC)
  - .1 FSC-STD-01-001-2004, FSC Principle and Criteria for Forest Stewardship.
  - .2 FSC-STD-20-002-2004, Structure and Content of Forest Stewardship Standards V2-1
  - .3 FSC Accredited Certified Bodies.
- .4 National Lumber Grades Authority (NLGA)
  - .1 Standard Grading Rules for Canadian Lumber 2005.
- .5 South Coast Air Quality Management District (SCAQMD), California State (SCAQMD)
  - .1 SCAQMD Rule 1113-04, Architectural Coatings.
  - .2 SCAQMD Rule 1168-05, Adhesives and Sealants Applications.
- .6 Truss Design and Procedures for Light Metal Connected Wood Trusses, Truss Plate Institute of Canada.
- .7 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.
  - .3 Forestry Stewardship Council (FSC) certified.
- .2 Indoor Environmental Quality Credit EQ - 4.4 Low - Emitting Materials: Composite Wood and Laminates Adhesives. Co-ordinate with Section 01 35 21 - LEED Requirements.
  - .1 SCAQMD Rule 1168, Adhesives and Sealants Applications.
- .3 Framing and board lumber: in accordance with NBC, except as follows:
  - .1 Forest Stewardship Council (FSC) certified.
- .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.
  - .4 Forest Stewardship Council (FSC) certified.

### **2.2 PANEL MATERIALS**

- .1 Indoor Environmental Quality Credit EQ - 4.4 Low - Emitting Materials: Composite Wood and Laminates Adhesives. Co-ordinate with Section 01 35 21 - LEED Requirements.

- .1 SCAQMD Rule 1168, Adhesives and Sealants Applications.
- .2 Plywood, OSB and wood based composite panels: to CAN/CSA-O325.0.
  - .1 Forest Stewardship Council (FSC) certified.
- .3 Douglas fir plywood (DFP): to CSA O121, standard construction.
  - .1 Forest Stewardship Council (FSC) certified.
- .4 Canadian softwood plywood (CSP): to CSA O151, standard construction.
  - .1 Forest Stewardship Council (FSC) certified.
- .5 Poplar plywood (PP): to CSA O153, standard construction.
  - .1 Forest Stewardship Council (FSC) certified.

## **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: in accordance with Section 07 92 10 - Joint Sealing, SCAQMD Rule 1168-Adhesives and Sealants Applications.
  - .1 Maximum allowable VOC limit 250 g/L.
- .4 General purpose adhesive: to CSA O112 Series.
  - .1 Maximum allowable VOC limit 140 g/L.
- .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, interior highly humid areas, pressure-preservative, fire-retardant and treated lumber.

## **2.5 WOOD PRESERVATIVE**

- .1 SCAQMD Rule #1113 - Architectural Coatings.
- .2 Maximum allowable VOC limit 350 g/L.

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**Part 3            Execution**

**3.1                PREPARATION**

- .1        Store wood products.

**3.2                INSTALLATION**

- .1        Comply with requirements of NBC 2010 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 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.
- .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       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.

**3.4                SCHEDULES**

- .1        Electrical equipment mounting boards:
  - .1        Plywood, DFP G1S grade, square edge 19 mm thick coated with fire retardant paint.
  - .2        2400 mm high boards to be screw fastened to wood furring strips or wall assembly.
- .2        Interior plywood paneling:

- .1 Plywood, DFP G1S grade, square edge 16 mm thick coated with fire retardant paint.
- .2 1220 mm high boards to be screw fastened to wood furring strips or wall assembly.

**END OF SECTION**