Part 1- GENERAL

1.1 REFERENCES

.1 American National Standards Institute / National Particleboard Association (ANSI/NPA)
- .1 ANSI/NPA A208.1-[2009], Particleboard.

.2 ASTM International
- .1 ASTM A 123/A 123M-[09], Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
- .2 ASTM A 653/A 653M-[09a], Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanealled) by the Hot-Dip Process.
- .3 ASTM C 578-10, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
- .4 ASTM C 1289-10, Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board.
- .5 ASTM C 1396/C 1396M-[09a], Standard Specification for Gypsum Board.
- .6 ASTM D 1761-06, Standard Test Methods for Mechanical Fasteners in Wood.
- .7 ASTM D 5055-10, Standard Specification for Establishing and Monitoring Structural Capacities of Prefabricated Wood I-Joists.
- .8 ASTM D 5456-10, Standard Specification for Evaluation of Structural Compo Site Lumber Products.

.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 and amendment.

.4 CSA International
- .1 CAN/CSA-A123.2-03(R2008), Asphalt Coated Roofing Sheets.
- .2 CAN/CSA-A247-M86(R1996), Insulating Fiberboard.
- .3 CSA B111-[1974(R2003)], Wire Nails, Spikes and Staples.
- .4 CSA O112 Series-M1977(R2006), CSA Standards for Wood Adhesives.
- .5 CSA O121-08, Douglas Fir Plywood.
- .6 CSA O141-05(R2009), Softwood Lumber.
- .7 CSA O151-09, Canadian Softwood Plywood.
- .8 CSA O153-M1980(R2008), Poplar Plywood.
- .9 CSA O325-07] Construction Sheathing.
- .10 CSA O437 Series-93(R2006), Standards on OSB and Waferboard.

.5 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.

.6 National Lumber Grades Authority (NLGA)
- .1 Standard Grading Rules for Canadian Lumber 2007.

.7 South Coast Air Quality Management District (SCAQMD), California State, Regulation XI. Source Specific Standards
- .1 SCAQMD Rule 1113-A2007, Architectural Coatings.
- .2 SCAQMD Rule 1168-A2005, Adhesives and Sealants Applications.

.8 Underwriters' Laboratories of Canada (ULC)
- .1 CAN/ULC-S706-09, Standard for Wood Fiber Insulating Boards for Buildings.

1.2 SUBMITTALS

.1 Provide submittals as required.

1.3 QUALITY ASSURANCE

.1 Lumber by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.

.2 Plywood, particleboard, OSB in accordance with CSA and ANSI standards.

1.4 DELIVERY, STORAGE AND HANDLING

.1 Deliver, store and handle materials in accordance with manufacturer's written instructions.

.2 Storage and Handling Requirements:
- .1 Store materials in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
- .2 Store and protect materials from nicks, scratches, and blemishes.
- .3 Replace defective or damaged materials with new.

2 PRODUCTS

2.1 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 Framing and board lumber: in accordance with NBC.

.3 Furring, blocking, nailing strips, grounds, rough bucks, [cants,] curbs, fascia backing and sleepers:
- .1 S2S is acceptable for all Work.
- .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.

.4 Plywood, OSB and wood based compo Site panels: to CSA O325.

.5 Douglas fir plywood (DFP): to CSA O121, standard construction.

.6 Canadian softwood plywood (CSP): to CSA O151, standard construction.

.7 Poplar plywood (PP): to CSA O153, standard construction.

.8 Gypsum sheathing: to ASTM C36/C36M.

.9 All wall mounted fixtures backing boards:
- .1 ¾" Plywood G1S, DFP or CSP grade, square edge.

.10 Electrical equipment mounting boards:
- .1 ¾" Plywood G1S, DFP or CSP grade, square edge.

.11 Site carpentry:
- .1 Pressure treated timbers: to CSA 080, pressure treated pine or fir to National Lumber Grades Authority, select grade 2 and better, all dried to a maximum moisture content of 20% prior to treating. Non-incised, CCA treatment to minimum retention of 4.0 kg/m3 for above ground use and 6.4 kg/m3 for ground contact. Colour: Cedar Tone Green.
- .2 Preservative: Green, End Cut Wood Preservative type to CSAO80.

2.2 ACCESSORIES

.1 General purpose adhesive: to CSA O112 Series.

.2 Sill Gasket Air seal: closed cell polyurethane or polyethylene.

.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 fiber plugs, explosive actuated fastening devices, recommended for purpose by manufacturer.

3 EXECUTION

3.1 INSTALLATION

.1 Install members true to line, levels and elevations, square and plumb.

.2 All wood to be free of defects. Any warped, checked or bent materials shall be rejected and not be used.

.3 Construct continuous members from pieces of longest practical length.

.4 Select exposed framing for appearance. Install panel materials so that grade-marks and other defacing marks are concealed or are removed by sanding where materials are left exposed.

.5 Install furring and blocking as required to space-out and support case Work, 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 sleepers as indicated/ required.

.8 Use dust collectors and high quality respirator masks when cutting or sanding wood panels.

.9 Frame, anchor, fasten, tie and brace members to provide necessary strength and rigidity.

.10 Countersink bolts where necessary to provide clearance for other Work.

.11 Site carpentry treated timber:

- .1 Handle and use treated material in a manner which will avoid damage or field fabrication causing alteration in original treatment.
- .2 Treat in field, cuts and damages to surface of treated material with an appropriate, topical, end-cut preservative as described in CSA 080.1974. Ensure that damaged areas such as abrasions; nail and spike holes, are thoroughly saturated with field treatment solutions as per CSA 080.1974.

3.2 CLEANING

.1 Progress Cleaning:
  .1 Leave Work area clean at end of each day.

3.3 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 06 10 00