
Part 1 General

1.1 RELATED SECTIONS

- .1 Section 01 74 21 - Construction/Demolition Waste Management And Disposal.
- .2 Insulation.

1.2 REFERENCES

- .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM A653/A653M-15e1, Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanealed) by the Hot-Dip Process.
 - .2 ASTM C36/C36M-15e1, Specification for Gypsum Wallboard.
 - .3 ASTM C578-16, Specification for Rigid, Cellular Polystyrene Thermal Insulation.
 - .4 ASTM C1289-16a, Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board.
 - .5 ASTM D1761-12, Standard Test Methods for Mechanical Fasteners in Wood.
 - .6 ASTM D5055-15, Specification for Establishing and Monitoring Structural Capacities of Prefabricated Wood I-Joists.
 - .7 ASTM D5456-14b, Specification for Evaluation of Structural Composite Lumber Products.
- .2 Canadian Standards Association (CSA)
 - .1 CSA A123.2-03 (R2013), Asphalt Coated Roofing Sheets.
 - .2 CAN/CSA-G164—(R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .3 CSA O112 Series-2003, CSA Standards for Wood Adhesives.
 - .4 CSA O121-08(R2013), Douglas Fir Plywood.
 - .5 CAN/CSA-O141-05 (R2014), Softwood Lumber.
 - .6 CSA O151-09 (R2014), Canadian Softwood Plywood.
 - .7 CSA O153-13, Poplar Plywood.
 - .8 CAN/CSA-O325-16, Construction Sheathing.
- .3 National Lumber Grades Authority (NLGA)
 - .1 Standard Grading Rules for Canadian Lumber 2000.
- .4 Truss Design and Procedures for Light Metal Connected Wood Trusses, Truss Plate Institute of Canada.

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 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal and the Waste Reduction Workplan, and the Waste Management plan to the maximum extent economically possible.
- .2 Separate wood waste in accordance with the Waste Management Plan and place in designated areas in the following categories for recycling: Solid wood/softwood/hardwood, treated, painted, or contaminated wood.
- .3 Separate wood waste in accordance with the Waste Management Plan and place in designated for re-use on site.
- .4 Set aside damaged wood and dimensional lumber off-cuts for approved alternative uses (e.g. bracing, blocking, cripples, bridging). Store this separated reusable wood waste convenient to cutting station and area of work.
- .5 Separate metal, plastic, wood and corrugated cardboard-packaging in accordance with the Waste Management Plan and place in designated areas for recycling.
- .6 Do not burn scrap at the project site.
- .7 Fold up metal banding, flatten, and place in designated area for recycling.

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 Glued end-jointed (finger-jointed) lumber NLGA Special Products Standard SPS ____, are acceptable for ____.
- .3 Glulam in accordance with Structural Glued-Laminated Timber CAN/CSA-O122.
- .4 Wood I-joists in accordance with Prefabricated Wood I-Joists ASTM D5055.
- .5 Light-frame trusses in accordance with "Truss Design and Procedures for Light Metal Connected Wood Trusses", Truss Plate Institute of Canada.
- .6 Structural Composite Lumber (SCL) in accordance with ASTM D5456.

.7 Furring, blocking, nailing strips, grounds, rough bucks, cants, curbs, fascia backing and sleepers:

- .1 S2S is acceptable for ____.
- .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.

2.2 PANEL MATERIALS

- .1 Plywood panels: to CAN/CSA-O325.0.
- .2 Roofing and wall plywood; 15 mm thick, tongue and groove.
- .3 Douglas fir plywood (DFP): to CSA O121, standard construction.

2.3 ACCESSORIES

- .1 Bituminous vapour permeable air barrier.
- .2 Polyethylene film: to CAN/CGSB-51.34, Type 1, 0.15 mm thick.
- .3 Air seal: closed cell polyurethane or polyethylene.
- .4 Sealants: see 07 92 10 – Joint Sealing.
- .5 General purpose adhesive: to CSA O112 Series.
- .6 Nails, spikes and staples: to CSA B111.
- .7 Bolts: 12.5 mm diameter unless indicated otherwise, complete with nuts and washers.
- .8 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.

2.4 FASTENER FINISHES

- .1 Stainless steel: see Section 07 46 13 – Preformed Metal Siding.

Part 3 Execution

3.1 PREPARATION

- .1 Store wood products.

3.2 INSTALLATION

- .1 Comply with requirements of NBC 1995 Part 9 supplemented by following paragraphs.

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- .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 ___ roof sheathing in accordance with requirements of NBC.
- .8 Install furring and blocking as required to space-out and support wall and ceiling finishes, facings, fascia, soffit, siding electrical equipment mounting boards, and other work as required.
- .9 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 1:600.
- .10 Install rough bucks, nailers and linings to rough openings as required to provide backing for frames and other work.
- .11 Install wood cants, fascia backing, nailers, curbs and other wood supports as required and secure using galvanized steel fasteners.
- .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.

END OF SECTION