

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 01 35 29.06 - Health & Safety Requirements
- .2 Section 07 52 00 - Modified Bitumen Membrane Roofing
- .3 Section 07 62 00 - Sheet Metal Flashing
- .4 Section 23 05 00 - Common Work Results For HVAC

1.2 REFERENCE STANDARDS

- .1 Latest edition of all listed references to apply:
 - .1 American Lumber Standards Committee (ALSC): Softwood Lumber Standards
 - .2 American Plywood Association (APA) Product Guide: Grades and Specifications
 - .3 Canadian Standards Association (CAN/CSA):
 - .1 CAN/CSA B111: Wire Nails, Spikes and Staples
 - .2 CAN/CSA-G164M: Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .3 CAN/CSA O121M: Douglas Fir Plywood.
 - .4 CAN/CSA-O141: Softwood Lumber.
 - .5 CAN/CSA O151M: Canadian Softwood Plywood.
 - .6 CAN/CSA-O325.0: Construction Sheathing
 - .4 National Forest Products Association (NFPA): Grading Rules
 - .5 National Lumber Grades Authority (NLGA): Stnd. Grading Rules, Canadian Lumber

1.3 ANCHORS AND FASTENERS

- .1 Co-ordinate the location and installation of anchors and fasteners. Confirm types of fasteners to be utilized with Departmental Representative.
- .2 Do not use metals in combination that will set up electrolytic action.
- .3 Use non-corrosive or galvanized steel fastenings as approved by Departmental Representative, or as otherwise specified.
- .4 Space anchors within load bearing or shear capacity.

1.4 QUALITY ASSURANCE

- .1 Lumber shall bear the grading stamp of an agency certified by the Canadian Lumber Standards Administration Board.
- .2 Plywood identification; by grade mark in accordance with applicable CSA Standards.

1.5 PRECAUTIONS

- .1 All wood blocking must be sealed in with self-adhering vapour barrier membrane, as detailed, the same day any wood blocking is installed. Refer to Sections 07 52 00.2.4.1. & 07 52 00.3.4.1.

PART 2 - PRODUCTS

2.1 DIMENSIONAL LUMBER

- .1 To CAN/CSA-0141 and CAN3-086-M and to National Lumber Grades Authority Standard Grading Rules 2005-grade Category as follows:
 - .1 Light framing and blocking: species group spruce - "Construction" grade.
 - .2 Exposed detailed wood work: wood to be pine.

2.2 PLYWOOD

- .1 To CSA 0151, Canadian Softwood Plywood, exterior grade, 13mm thick.

2.3 FASTENERS

- .1 Nails, spikes and staples:
 - .1 to CSA B111; galvanized for exterior work. Use spiral thread nails except where specified otherwise.
- .2 Fasteners:
 - .1 Steel: use self-drilling screws
 - .2 Solid masonry or concrete: use expansion shields, friction fit pins or lag bolts. Use lead or in-organic fibre plugs with specified screws in concrete or masonry.

2.4 GYPSUM SHEATHING

- .1 Gypsum sheathing board ASTM C1396/C1396M. Board to be 13mm thick, exterior grade sheathing formulated to be fire-resistant (interior of curbs only)

PART 3 - EXECUTION

3.1 SECUREMENT

- .1 Secure to substrate with suitable fasteners, galvanized minimum 9mm diameter of a suitable length, placed in 2 rows at 600mm centres or as otherwise detailed.
- .2 Double the amount of fasteners required for a distance of 2.4m from all outside corners.

3.2 NAILING

- .1 All nails shall be long enough so that not less than half their length penetrates into the second member.
- .2 Splitting of wood members shall be minimized by staggering the nails in the direction of the grain and by keeping nails well in from the edges. All split wood members to be replaced.

3.3 PLYWOOD

- .1 Install plywood where indicated on drawings. Wood fibres shall be perpendicular to studs.

- .2 Leave a space of 2mm between sheets to allow for material expansion.
- .3 Every piece shall have a minimum of 2 fasteners. Minimum distance between 2 fasteners shall be half their length and the minimum distance from the edge of the plywood shall be a quarter of their length.

3.4 NEW CONSTRUCTION DIMENSIONS

- .1 Maximum spacing between studs to be as indicated on drawings. Align and plumb faces of furring and blocking to tolerance of 1:600.
- .2 Equipment Curbs: build curbs to a minimum height of 400mm above finished roof surface, as noted on drawings.
- .3 Parapet Walls: build parapet walls or extend blocking to a minimum height of 200mm above finished roof surface.

3.5 GYPSUM SHEATHING

- .1 Mechanically fasten boards to interior of curbs, hatches, and skylights. Install joint tape over all joints. Plaster with a minimum of two coats of drywall compound, sand and paint as indicated on the drawings

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