

Part 1 General

1.1 RELATED SECTIONS

- .1 Section 06 17 53 – Shop-Fabricated Wood Trusses.

1.2 REFERENCES

- .1 Canadian Standards Association (CSA International)
 - .1 CSA B111-1974 (R2003), Wire Nails, Spikes and Staples.
 - .2 CAN/CSA-G164-M92(R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .3 CSA O141-05, Softwood Lumber.
 - .4 CSA O151-04, Canadian Softwood Plywood.
 - .5 CAN/CSA-O325.0-92(R2003), Construction Sheathing.
- .2 National Lumber Grades Authority (NLGA)
 - .1 Standard Grading Rules for Canadian Lumber 2005.

1.3 QUALITY ASSURANCE

- .1 Lumber identification: by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.
- .2 Plywood identification: by grade mark in accordance with applicable CSA standards.
- .3 Plywood, OSB and wood based composite panel construction sheathing identification: by grademark in accordance with applicable CSA standards.

1.4 DESIGN REQUIREMENTS

- .1 Design Criteria:
 - .1 Structural materials method and design in conformance with the latest edition of all applicable standards and codes.
 - .2 Structural design in conformance with the provincial building code latest edition, and the National Building Code of Canada 2005, latest edition.
 - .3 All discrepancies in details and dimensions shall be brought to the attention of the engineer prior to commencing related work. Drawings are not to be scaled.
 - .4 Importance category of building: Normal
 - .5 Δ_{max} : H/400 for lateral deflections.
 L/360 for vertical roof deflections.
 L/360 for vertical Live Load deflections.

Part 2 Products

2.1 LUMBER MATERIAL

- .1 Lumber: unless specified otherwise, softwood, S4S, moisture content 19% or less. All exterior wood shall be pressure treated. Lumber shall be in accordance with following standards:
 - .1 CAN/CSA-O141.
 - .2 NLGA Standard Grading Rules for Canadian Lumber.
- .2 Furring, blocking, nailing strips, grounds, rough bucks, cants, curbs, fascia backing and sleepers:
 - .1 S2S is acceptable for S45.
 - .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.
- .3 Wood open web joist to be specified by joist supplier:
 - .1 Depth of joist in accordance with drawings.
 - .2 Loading in accordance with drawings.

2.2 PANEL MATERIALS

- .1 Canadian softwood plywood (CSP): to CSA O151, standard construction.
 - .1 Urea-formaldehyde free.
- .2 Plywood, OSB and wood based composite panels: to CAN/CSA-O325.
 - .1 Urea-formaldehyde free.

2.3 ACCESSORIES

- .1 Nails, spikes and staples: to CSA B111.
- .2 Bolts: 12.5 mm diameter unless indicated otherwise, complete with nuts and washers.
- .3 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 FINISHES

- .1 Galvanizing: to CAN/CSA-G164, use galvanized fasteners for exterior work and interior highly humid areas (including decorative trusses).

Part 3 Execution

3.1 INSTALLATION

- .1 Comply with requirements of the current NBC, supplemented by the 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 Install furring and blocking as required to space-out and support casework, cabinets, wall and ceiling finishes, facings, fascia, soffit, siding and other work as required.
- .6 Align and plumb faces of furring and blocking to tolerance of 1:600.
- .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 wood backing, dressed, tapered and recessed slightly below top surface of roof insulation for roof hopper.

3.2 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