

Part 1 General

- 1.1 RELATED SECTIONS .1 Finish Carpentry: Section 06 20 00.
- 1.2 SOURCE QUALITY CONTROL .1 Identify lumber by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.
- 1.3 SHOP DRAWINGS .1 Submit shop drawings in accordance with Section 01 33 00 – Submittal Procedures

Part 2 Products

- 2.1 LUMBER MATERIAL .1 Except as indicated on Structural Drawings or specified otherwise lumber shall be softwood, S-P-F, S4S, bear an S-DRY stamp with moisture content (MC) not greater than 19% at time of installation, in accordance with following standards:
- .1 Softwood lumber, CSA 0141, latest revision.
 - .2 NLGA Standard Grading Rules for Canadian Lumber, latest edition.
 - .2 Studs (36 mm thick x 140 mm wide, 3048 mm and shorter): as defined in NLGA, latest edition.
 - .3 Structural Roof Rafters (36 mm thick x 240mm wide): Use No. 1 and No. 2 grades as defined in NLGA, latest edition. All other structural joists to be No. 2. Wall plates where noted as Douglas fir (D. Fir) to be No.1 and No. 2 grade.
 - .4 Machine stress-rated lumber is acceptable for all purposes.
 - .5 Glued end-jointed (finger-jointed) lumber is not acceptable.
 - .6 Board lumber: in accordance with Table 9.3.2.1 of NBC 2005, except as indicated on Drawings or Specified otherwise.
 - .7 Furring, blocking, nailing strips, grounds, rough bucks, cants, curbs: Use Construction Grade, as defined in NLGA par .122b.
- 2.2 PANEL MATERIAL .1 Plywood - Exterior walls and non-exposed interior wall sheathing: CSA 0161 (DFP) Exterior Sheathing Grade. Square edge unless Noted, 16mm thickness Indicated.
- .2 Plywood - Exterior fascias for cover: CSA 0161 (DFP) G1S, sanded, A/C/C. 16mm thickness, unless Detailed Otherwise. Areas exposed to weather requires shop priming all sides including butt ends by this Section, in

conformance with Section 09 99 00, prior to installation.
Square finished edges are required.

- .3 Roof sheathing: Plywood to CSA 0462.0 Design Rated ,
16mm thickness as indicated on Structural Drawing.

2.3 FASTENERS

- .1 In accordance with Part 9 of NBC 2010 as supplemented
by following requirements except where specific type is
indicated on Drawings.
- .2 Nails, spikes and staples: to CSA BIII- 1974 and as
follows:
 - .1 Use common spiral nails/spiral spikes unless
Indicated otherwise.
 - .2 Use hot galvanized finish steel for exterior work
with finish size nail heads on exposed trim.
 - .3 Bolt, nut, washer, screw and pin type fasteners:
with hot dip galvanized finish to CSA
G164-M1981 for exterior work and elsewhere
with primer paint finish where fastenings are
installed on sight - exposed surfaces.
 - .4 Use surface fastenings of following type unless
Indicated otherwise:
 - .1 To solid masonry and concrete, use
exp.shield with lag screw.
 - .2 To structural steel, use bolts through drilled
hole, or welded stud-bolts or power driven
self-drilling screws, or welded studbolts, or
explosive actuated studbolts.
 - .3 To exterior face of concrete foundation
wall with galvanized power driven
fasteners penetrating minimum 38 mm into
concrete.
- .3 Anchor Bolts & Up-Lift Anchors
 - .1 Sill Plate Anchor Bolts: As per Structural
Drawing at 800 o.c.
 - .2 Rafter Up-Lift Anchors: Simpson Strong Tie per
Structural Drawing.

2.4 UNDERSLAB VAPOUR BARRIER

- .1 Polyethylene Film: To CAN/ CGSB-51.34-M, 0.15mm
thick, Ecologo Certfied, containing 50% recycled
content, VOC content 5% by Weight.
- .2 Joint Sealing tape: Air resistant pressure sensitive
adhesive tape, duct tape type as recommended by vapour
barrier manufacturer, 50mm wide for lap joints and
perimeter seals.

2.5 DAMPPROOFING

- .1 Dampproofing membrane (DP-1) shall be waterproof

emulsion composed of vacuum-reduced asphalt dispersed in a mineral colloid emulsifier:

- .1 Complies with CAN/CGSB 37.2
- .2 Water Vapour Permeance: 0.14 perms, ASTM E96/E96M-05.
- .3 Chemical resistance: Water, calcium chloride, mild acid, alkaline solutions and salt solutions.
- .4 Acceptable materials:
 - .1 Aqua-Bloc 710-11 by BAKOR.
 - .2 Sopralastic 120 by Suprema.
 - .3 Approved alternate.

2.6 DAMPPROOFING PROTECTION BOARD

- .1 Type 1 – Protection Board (DP-1)
 - .1 Protection Board shall be min, 3mm hollow core corrugated polypropylene board, black:
 - .2 Acceptable Products:
 - .1 Corriboard
 - .2 Henry, Bakor 990-31
 - .3 Cordek, Correx

Part 3 Execution

3.1 WOOD-FRAME CONSTRUCTION

- .1 Comply with requirements of NBC 2010, except as indicated otherwise on Contract Documents.
- .2 All wood construction to conform to CAN-086-M14.

3.2 ERECTION OF FRAMING MEMBERS

- .1 Install members true to line, levels and elevations. Space uniformly.
- .2 Construct continuous members from pieces of longest practical length.

3.3 PLYWOOD SHEATHING

- .1 Install plywood wall sheathing where indicated, secured with appropriate fasteners to ensure rigid installation. Stagger vertical joints when applying sheathing horizontally. Leave 2mm gap between sheets.
- .2 Install interior plywood sheathing on walls where indicated, secured with appropriate fasteners to ensure rigid installation. Stagger vertical joints when applying sheathing horizontally. Leave 2mm gap between sheets.
- .3 Install plywood roof sheathing where indicated, secured with appropriate fasteners to ensure rigid installation. Use H-clips or t&g (Cofi profile). Lay plywood surface

grain at right angles to roof framing. Leave 2 mm gap between sheets.

3.4 SHEATHING PAPER / AIR BARRIER

- .1 Install specified air barrier as per manufacturing specifications. Staple, lap and tape all joints. Return into all openings for continuous seal. Refer also to 06 20 00.

3.5 FURRING, BLOCKING AND STRAPPING

- .1 Install furring and blocking as required to space-out and support Work as Indicated or required to make uniform surface on walls to be patched to match.
- .2 Install furring to support any sheathing-type material where there is no blocking and where sheathing is not suitable for direct nailing. Space furring as required to provide adequate support for material.
- .3 Align and plumb faces of furring and blocking to tolerance of 1:600.

3.6 ROUGH BUCKS & NAILERS

- .1 Install wood bucks and nailers as indicated or required, including wood bucks and linings around frames for doors, windows and louvres and openings for mechanical and Electrical equipment, except as detailed otherwise on Drawings.
- .2 Except where indicated otherwise, use material at least 38 mm thick secured with 9 mm bolts located within 300 mm from ends of members and uniformly spaced at 600 mm c/c.
- .3 Countersink bolts where necessary to provide clearance for other Work.

3.7 FASTENERS

- .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.

3.8 INSTALLATION OF DAMPPROOFING - GENERAL

- .1 Installation of Bituminous dampproofing shall be per manufacturers' recommendations.
- .2 Install dampproofing protection board during backfilling operations ensure protection board is not damaged by machinery, equipment, tools or backfill. Replace damaged protection board as required.