

Part 1 General

1.1 RELATED SECTIONS

- .1 Rough Carpentry: Section 06 10 00.
- .2 Painting: Section 09 99 00.

1.2 SOURCE QUALITY CONTROL

- .1 Identify lumber by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.
- .2 CAN/CGSB-11.3-M87, Hardboard.
- .3 CAN/CGSB-11.5-M87, Hardboard, Pre-coated, Factory Finished, for Exterior Cladding.
- .4 CAN/CGSB-11.6-M87, Installation of Exterior Hardboard Cladding.

1.3 Submittals

- .1 Submit samples in accordance with Section 0133 00 - Submittal Procedures.
- .2 Submit duplicate 12" long x board wide size of wood profiles specified.

Part 2 Products

2.1 LUMBER MATERIAL

- .1 Except as indicated 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.
 - .3 Wood Preservation, CSA 080, latest revision
- .2 Board lumber: in accordance with Table 9.3.2.1 of NBC 2005, except as indicated on Drawings or Specified otherwise.

2.2 WOOD SIDING MATERIAL

- .1 Lumber Siding - Bevel siding: Pine, #2 grade, manufactured from diagonally cut 2" x 6" stock, saw texture exposed to exterior, finish size approx. 1" x 6" for 4" exposure.
 - .1 Acceptable Product:
 - .1 Hefler Forest Products Ltd
 - .2 Goodfellow Inc
 - .3 Approved Alternate
 - .2 Finish: Primed and painted on site. See Section 09 99 00 – Painting.

- .2 Wood Siding Strapping:
 - .1 25mm (1") x 75mm (3") Pine at 406mm (16") o.c. maximum.
- .3 Wood Trim Boards:
 - .1 Siding Corner Boards:
 - .1 Pine, #2 grade, rough saw texture, 1" x 6" and 1" x 5" width to suit, joined at corners to provide equal exposed faces.
 - .1 Acceptable Product:
 - .1 Hefler Forest Products Ltd.
 - .2 Goodfellow Inc
 - .3 Approved equal.
 - .2 Finish: Primed and painted on site.
See Section 09 99 00 – Painting.
 - .2 Window/Door Trim Boards:
 - .1 Pine, #2 grade, rough saw texture, 2" x 3" for sides and window sill trim, 2" x 4" for header trim.
 - .1 Product: As manufactured by Hefler Forest Products Ltd. or approved equal.
 - .2 Finish: Primed and painted on site.
See Section 09 99 00 – Painting.
 - .3 Top of Siding Trim Board:
 - .1 Pine, #2 grade, rough saw texture, 2" x 3", length to suit.
 - .1 Product: As manufactured by Hefler Forest Products Ltd. or approved equal.
 - .2 Finish: Primed and painted on site. See Section 09 99 00 – Painting.
 - .4 Siding Apron:
 - .1 Pine, #2 grade, rough saw texture, 2" x 6", length to suit.
 - .1 Product: As manufactured by Hefler Forest Products Ltd or approved equal.
 - .2 Finish: Primed and painted on site. See Section 09 99 00 – Painting.
 - .5 Metal Counter Flashings: At Skirt Board and over door frame.
 - .1 13mm (1/2") doubled back drip edge

- .2 0.8mm (1/32") Galvalume Finished Aluminum
- .6 Caulking: Single-component, high performance, moisture-cure low-modulus, silicone sealant for wood siding to corner boards, trims and door frame, colour to match siding paint finish.
 - .1 Acceptable Products:
 - .1 Tremo Dymonic
 - .2 Dow Corning 790
 - .3 Tremo Spectrem1
 - .4 BASF Sonolastic 150
 - .5 Approved Alternate
- .3 Plywood - Interior walls and ceiling sheathing, exposed: CSA 0161 (DFP), Select Grade. Square edge unless noted, 16mm thickness as indicated.

2.3 INTERIOR VAPOUR BARRIER

- .1 To Interior Walls and Ceiling:
 - .1 Polyethylene Film: To CAN/ CGSB-51.34-M, 0.15mm thick, Ecologo Certified, 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.
 - .3 Vapour Barrier Joint Sealant: Ecologo certified, not to contain total volatile organic compounds in excess of 5% by weight, asbestos free sealant, compatible with vapour retarder materials, as recommended by vapour barrier manufacturer.

2.3 EXTERIOR AIR / VAPOUR BARRIERS

- .1 Roof Vapour Barrier:
 - .1 Acceptable Product:
 - .1 6.8kg (15lb) asphalt impregnated felt by Domtar, IKO, CRC, Resisto or approved alternate.
 - .2 Accessories: Staples, 6mm (1/4") minimum leg.
- .2 Exterior Wall non-perforated Air Barrier, high density polyethylene fibre or nonwoven polyolefin building wrap with UV resistance and perm rating of 45 or greater:
 - .1 Tyvek, Dupont
 - .2 Typar Housewrap, Berry Plastics Company
 - .3 Owens Corning, Pinkwrap
 - .4 R-wrap, Ludlow Coated Products

- .5 or approved alternate.
- .2 Accessories: Securement Pins and Tape as recommended by Manufacturer.

2.4 ASPHALT SHINGLES

- .1 Asphalt Shingles: To CSA A123.1 – Latest edition.
 - .1 Triple Tab Strip, Mineral Surfaced Asphalt Shingles for a minimum slope of 4:12.
 - .2 1038mm (40 ¾”) x x 350mm (13 ¾”)
 - .3 Colour – “Grey”
 - .4 Warranty: Minimum 25 year Limited and Full Warranty.
 - .5 Acceptable products:
 - .1 CRC Biltmore 30
 - .2 IKO Cambridge 30
 - .3 Owens Corning Oakridge
 - .6 Accessories:
 - .1 Ice Shield:
 - .1 Acceptable Products:
 - .1 W.R. Grace Ice & Water Shield
 - .2 CRC Stormtamer
 - .3 IKO Armour Guard Ice & Water Shield.
 - .4 Lastobond by Soprema
 - .5 Lastobond by Resisto
 - .2 Nails: To CSAB111:
 - .1 Large Head, Minimum 9.5mm Diameter.
 - .2 Hot dipped galvanized Steel.
 - .3 Minimum 11 Gauge.
 - .4 Sufficient length to penetrate at least 20mm (¾”) into roof sheathing.
 - .5 Staples or power driven nails not acceptable. Nail are to be hand driven.
 - .3 Mastic: To glue down shingle tabs:
 - .1 Plastic Asphaltic Cement to CGSB 37-GP-5M
 - .4 Starter Strip Flashings:
 - .1 Starter Strip c/w 13mm (1/2”) doubled back drip edge (For eaves and Edges)
 - .2 0.8mm (1/32”) Galvalume Finished Aluminum

2.5 EXTERIOR METAL
DOOR AND HARDWARE

- .1 Exterior Steel Door and Frame:
 - .1 Exterior Prefinished Insulated Steel Door and Prefinished Wood Frame.
 - .2 Size: 812mm (2'-8") x 2100mm (6'-8")
 - .3 Swing: Outswing (Right-Hand Reverse)
 - .4 Threshold: Wood - Metal Clad.
 - .5 Weatherstripping: Neoprene
 - .6 Acceptable Products:
 - .1 Stanley Doors,
 - .2 Masonite Doors,
 - .3 Novatech,
 - .4 Jeld-wen,
 - .5 Atlantic Windows,
 - .3 Approved alternate.
- .2 Door Hardware:
 - .1 Exterior Cylindrical Lever Lockset complete with deadlocking latch, push/turn lever on inside lever released by key on outside or turning inside. Turn button must be released manually, key retracts latch when outside lever is locked and complete with separate exterior key only single cylinder deadbolt. Key to Departmental Representative's keying System:
 - .1 Sargent (65G05 c/w 486 Deadbolt)
 - .2 Weiser
 - .3 Schlage
 - .3 Approved alternate

2.6 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 hollow masonry, drywall and panel surfaces use toggle bolt.
 - .2 To solid masonry and concrete, use exp.shield with lag screw.
 - .3 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.
 - .4 To exterior face of concrete foundation wall with galvanized power driven fasteners penetrating minimum 38 mm into concrete.

2.7 WOOD PRESERVATIVE

- .1 Surface - applied wood preservative: (SWP):CSA 0132.1-M1977 SWP-2 copper naphthenate base, water repellent wood preservative, coloured. Note: preservative with pentachlorophenol base NOT to be used.
- .2 Factory applied preservative (PTW): CSA 0080.15 at rate of 6.4 kg/m2.

Part 3 Execution

3.1 WOOD-FRAME CONSTRUCTION

- .1 Comply with requirements of NBC 2010, except as indicated otherwise on Contract Documents.

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 OSB roof sheathing where indicated, secured with appropriate fasteners to ensure rigid installation. Use H-clips or t&g (Cofi profile). Lay OSB 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 07190.

3.5 FURRING, BLOCKING AND STRAPPING .1
.2

Install furring and blocking as required.

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 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 SURFACE-APPLIED WOOD PRESERVATIVE .1

Treat surfaces of exterior non-PTW material with wood preservative (SWP) before installation.

.2 Apply preservative by dipping or by brush to completely saturate and maintain wet film on surface for minimum 3 minute soak on lumber and one minute soak on plywood.

.3 Re-treat surfaces exposed by cutting, trimming or boring with liberal brush application of preservative before installation.

.4 Treat all noted non-PTW material as follows:

.1 All wood used in cants, parapets, curbs, metal

- (fascia or other) backing, nailers, all wood members in ground contact.
- .5 Treat all cut, trimmed or bored PTW material with 2 coats preservative.