

Part 1 General

1.1 RELATED REQUIREMENTS

- .1 Section 09 21 16 – Gypsum Board Assemblies

1.2 REFERENCES

- .1 CSA International
 - .1 CSA B111-1974(R2003), Wire Nails, Spikes and Staples.
 - .2 CSA O121-08 (R2013), Douglas Fir Plywood.
 - .3 CSA O141-05(R2014), Softwood Lumber.
 - .4 CSA O151-09 (R2014), Canadian Softwood Plywood.
 - .5 CAN/CSA-O325.0-07, Construction Sheathing.
- .2 National Lumber Grades Authority (NLGA)
 - .1 Standard Grading Rules for Canadian Lumber 2010.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for rough carpentry work and include product characteristics, performance criteria, physical size, finish and limitations.

1.4 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 grade mark in accordance with applicable CSA standards.

1.5 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements with manufacturer's written instructions.
- .2 Storage and Handling Requirements:
 - .1 Store materials off ground indoors in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Replace defective or damaged materials with new.

Part 2 Products

2.1 MATERIALS

- .1 Lumber: unless specified otherwise, softwood, S4S, moisture content 19% or less in accordance with following standards:
 - .1 CAN/CSA-O141. SPF species, Grade 2.
 - .2 NLGA Standard Grading Rules for Canadian Lumber.
- .2 Furring, blocking, nailing strips, grounds, rough bucks, cants, curbs, fascia backing and sleepers:
 - .1 Board sizes: "Standard" or better grade.
 - .2 Dimension sizes: "Standard" light framing or better grade.
- .3 Panel Materials:
 - .1 Douglas fir plywood (DFP): to CSA O121, standard construction.
 - .1 Electrical, Telephone and Data and equipment mounting boards backboards: Douglas Fir Good one-side (G1S) Fire Rated.
 - .2 Canadian softwood plywood (CSP): to CSA O151, standard construction. un-sanded, exterior grade.
 - .1 Pressure preservative treatment: to CSA O80.9, plywood to CSA O151.
 - .3 Glass Mat, Gypsum Board: to Section 09 21 16.

2.2 ACCESSORIES

- .1 Fasteners:
 - .1 Hot dipped galvanized steel for high humidity and treated wood locations, unfinished steel elsewhere.
 - .2 Toggle bolt type for anchorage to hollow masonry. Expansion shield and lag bolt type for anchorage to solid masonry or concrete. Bolt fastener for anchorages to steel as recommended for purpose by manufacturer.
 - .3 Nails, spikes and staples: to CSA B111.
 - .4 Bolts: 12.5 mm diameter unless indicated otherwise, complete with nuts and washers.
- .2 Compressible Foam Gasket: sill plate gasket; polyethylene foam, minimum thickness 6 mm x full width of sill plate.

Part 3 Execution

3.1 EXAMINATION

- .1 Verification of Conditions: verify conditions of substrates previously installed under other Sections or Contracts are acceptable for rough carpentry installation in accordance with manufacturer's written instructions.
 - .1 Visually inspect substrate in presence of Departmental Representative.
 - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
 - .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.

3.2 PREPARATION

- .1 Treat surfaces of material with wood preservative, 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 1 minute soak on plywood.
- .3 Re-treat surfaces exposed by cutting, trimming or boring with liberal brush application of preservative before installation.
- .4 Treat material as indicated as follows:
 - .1 Wood cants, fascia backing, curbs, nailers, sleepers on roof deck.
 - .2 Wood furring for on outside surface of exterior masonry and concrete walls.
 - .3 Wood sleepers supporting wood subflooring over concrete slabs in contact with ground or fill.

3.3 INSTALLATION

- .1 Comply with requirements of NBC Latest adopted edition; supplemented by following paragraphs.
 - .1 Install members true to line, levels and elevations, square and plumb.
 - .2 Construct continuous members from pieces of longest practical length.
 - .3 Place foam sill gasket under framed assemblies.
 - .4 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.
 - .5 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.

- .6 Install rough bucks, nailers and linings to rough openings as required to provide backing for frames and other work.
- .7 Install wood cants, fascia backing, nailers, curbs and other wood supports as required and secure using galvanized fasteners.
- .8 Install sleepers as indicated.
- .9 Equipment mounting boards:
 - .1 Plywood, DFP, G1S, grade, square edge minimum 19 mm thick.
 - .2 Install telephone, data, equipment and electrical panel back boards sized a minimum of 300 mm beyond size of the equipment.
 - .3 Equipment boards are to be painted prior to installation including walls behind boards. Subject to removal if direction not followed.
- .10 Frame and block openings for support of door and window frames, and other equipment and as indicated.
- .11 Secure sheathing to framing members with ends over firm bearing and staggered and as specified on the drawings.
- .12 Install nails or bolts in each hole provided in each framing anchor, tie down, strap, hold down, etc.
- .13 Install rough bucks, nailers and rough linings to openings as required to provide backing for frames and other work.
- .14 Frame, anchor, fasten, tie and brace members to provide necessary strength and rigidity.
- .15 Countersink bolts where necessary to provide clearance for other work.
- .16 Use nailing disks for soft sheathing as recommended by sheathing manufacturer.

END OF SECTION