

Part 1 General

1.1 RELATED SECTIONS

- .1 Section 06 16 43 Gypsum Sheathing: Gypsum sheathing over wood furring.
- .2 Section 07 52 00 Modified Bituminous Roofing: Fibreboard cants; reinforced waterproof coating.

1.2 REFERENCES

- .1 American Society for Testing and Materials
 - .1 ASTM A153/A153M 2009 Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
 - .2 Canadian Standards Association (CSA International)
 - .1 CAN/CSA-O80 Series-08 (R2012) Wood Preservation.
 - .2 CAN/CSA-O141-05, Softwood Lumber.
 - .3 CAN/CSA-O325.0-92(R2003), Construction Sheathing.
 - .3 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 panel construction sheathing identification: by grademark in accordance with applicable CSA standards.
- .4 Do not dispose of preservative treated wood through incineration.
- .5 Do not dispose of preservative treated wood with materials destined for recycling or reuse.
- .6 Dispose of treated wood, end pieces, wood scraps and sawdust at sanitary landfill approved by Departmental Representative.
- .7 Dispose of unused wood preservative material at official hazardous material collections site approved by Departmental Representative.
- .8 Do not dispose of unused preservative material into sewer system, into streams, lakes, onto ground or in other locations where they will pose health or environmental hazard.

Part 2 Products

2.1 LUMBER MATERIAL

- .1 Lumber: unless specified otherwise, softwood, S4S, moisture content 19% or less 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, curbs, fascia backing and sleepers:
 - .1 S2S is acceptable for concealed blocking.
 - .2 Board sizes: "Standard" or better grade.
 - .3 Dimension sizes: "Standard" light framing or better grade.
 - .4 Preservative pressure treated as specified.

2.2 PANEL MATERIALS

- .1 Plywood construction sheathing: to CAN/CSA-O325.07, 16 mm thick unless indicated otherwise, preservative pressure treated as specified.

2.3 ACCESSORIES

- .1 Nails, spikes and staples: galvanized, to suit substrate and application.
- .2 Proprietary fasteners: toggle bolts, expansion shields and lag bolts, screws and lead or inorganic fibre plugs, recommended for purpose by manufacturer.

2.4 FINISHES

- .1 Galvanizing: to ASTM A153, use galvanized fasteners for exterior work, pressure-preservative.

2.5 PRESERVATIVE TREATMENT

- .1 Treat all lumber and plywood sheathing to CSA O80 Series, Use Category UC3.2.

Part 3 Execution

3.1 INSTALLATION

- .1 Comply with requirements of NBC, supplemented by the following paragraphs.
- .2 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.
- .3 Align and plumb faces of furring and blocking to tolerance of 1:600.
- .4 Install rough bucks, nailers and linings to rough openings as required to provide backing for frames and other work.
- .5 Install wood cants, fascia backing, nailers, curbs and other wood supports as required and secure using galvanized steel fasteners.

3.2 PREPARATION OF PRESERVATIVE TREATED LUMBER AND PLYWOOD

- .1 For lumber and plywood designated as preservative pressure treated, use specified lumber and/or plywood treated as specified.
- .2 Re-treat surfaces exposed by cutting, trimming or boring with liberal brush application of preservative before installation.

- .1 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 Provide treated lumber and plywood material for all applications:

3.3 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

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Part 1 General

1.1 RELATED SECTIONS

- .1 Section 05 41 00 Structural Metal Stud Framing: Framing to receive sheathing.
- .2 Section 07 52 00 Modified Bituminous Membrane Roofing: Roofing membrane applied over sheathing.

1.2 REFERENCES

- .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM C79/79M04 Standard Specification for Treated Core and Nontreated Core Gypsum Sheathing Board
 - .2 ASTM C954-07, Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs From 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness.
 - .3 ASTM C1177/1177M06 Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing
 - .4 ASTM C1278M-07 Standard Specification for Fiber-Reinforced Gypsum Panel
 - .5 ASTM C1280-04, Specification for Application of Gypsum Sheathing

1.3 PRODUCT INFORMATION

- .1 Submit manufacturer's product literature describing specified products, including their technical and physical properties.
 - .1 Include manufacturer's certificate of mix formulation compliance, including certification that products contain no more than 0.5% asbestos.
 - .2 Include WHMIS and Material Safety Data Sheets.
 - .3 Include product data and listing sheets for fire-rated assemblies

1.4 REQUIREMENTS OF REGULATORY AGENCIES

- .1 Wherever a fire resistance classification is shown involving products specified in this section, provide assemblies that have been tested by an accredited testing agency in accordance with ULC S101 and that have achieved the required rating.
- .2 Submit the assembly listing for each required assembly, as issued by the testing agency, specifying the materials, accessories and application procedures required for the tested assembly, in accordance with the submittal requirements of Division 1.
- .3 Assembly listings indicated in the Contract Documents indicate the minimum level of acceptance with respect to fire-resistance requirements only.

1.5 DELIVERY, STORAGE AND HANDLING

- .1 Deliver materials in original packages, containers or bundles bearing manufacturer's brand name and identification.
- .2 Store materials inside, level, under cover. Keep dry. Protect from weather, other elements and damage from construction operations and other causes.
- .3 Handle gypsum boards to prevent damage to edges, ends or surfaces. Protect metal accessories and trim from being bent or damaged.

Part 2 Products

2.1 SHEATHING MATERIALS

- .1 Glass mat faced gypsum substrate sheathing: to ASTM C1177/C1177M, thickness 16 mm, regular type, 1200 mm wide x maximum practical length.

2.2 ACCESSORIES

- .1 Steel drill screws: to ASTM C954, 32 mm or 41 mm bugle head corrosion resistant fasteners, Type S-12 or W to suit substrate.
 - .1 Under sheet-type weather barrier or self-adhering membranes: hot-dipped galvanizing to 460 g of zinc per m² of surface.
 - .2 Under liquid or fluid applied membranes, corrosion resistance shall be equal to 800 hours when tested in accordance with ASTM B 117.

Part 3 Execution

3.1 INSTALLATION

- .1 Comply with requirements of ASTM C1280 Specification for Application of Gypsum Sheathing.
- .2 Install wall sheathing in accordance with manufacturer's printed instructions.
- .3 Trim cut edges and ends of sheathing to produce neat-fitting joints when installed.
- .4 Score or saw-cut holes for pipe penetrations, fixtures or other small openings from face-side.
- .5 Locate all vertical ends and edge joints over centres of framing members. Offset joints by minimum one framing space between adjacent rows of sheathing panels.
- .6 Place fasteners no closer than 10 mm from edge, spaced at maximum 200 mm OC along studs.
- .7 Fit sheathing closely around window and door openings. Offset panel joints minimum 100 mm from edge of opening.

3.2 APPLICATION – GLASS MAT FACED SHEATHING

- .1 Do not apply sheathing panels until bucks, anchors, blocking, electrical and mechanical work are approved.
- .2 Apply sheathing to wood or metal furring or framing using screw fasteners.
 - .1 Maximum spacing of screws 200 mm OC at perimeter and in field of panel.
 - .2 Install panels with edges parallel to and supported by framing.
 - .3 Use longest practical panel lengths to minimize end joints.
 - .4 Stagger end joints over supports.
- .3 Drive fasteners tightly into sheathing and framing, flush with sheathing surface. Do not counter sink. Keep fasteners 10 mm back from edge of panel.

3.3 PROTECTION

- .1 If sheathing is to be exposed for a period of more than 30 days, provide one of the following protection measures:
 - .1 Fill all machine end cuts and all gaps resulting from cuts, corners, joints with exterior grade caulking or cover with contractor's adhesive sheathing membrane tape.

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