

Part 1 General

1.1 RELATED SECTIONS

- .1 Section 09 29 00 – Gypsum Board.
- .2 Section 12 34 01 – Manufactured Plastic Casework (Below Counter).
- .3 Section 12 34 02 – Manufactured Plastic Casework (Above Counter).

1.2 REFERENCES

- .1 American Society for Testing and Materials (ASTM).
 - .1 ASTM C954-07, Standard 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.
 - .2 ASTM C1177/C1177M-06, Standard Specification for Glass Matt Gypsum Substrate for Use as Sheathing.
 - .3 ASTM C1186-07, Standard Specification for Flat Non-Asbestos Fiber-Cement Sheets.
 - .4 ASTM C1278/C1278M-07a, Standard Specification Fibre-Reinforced Gypsum Panels.
 - .5 ASTM C1280-07, Standard Specification for Application of Gypsum Sheathing Board.
 - .6 ASTM D3273-00(2005), Standard Test Method for Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.
 - .7 ASTM D5456-07, Standard Specification for Evaluation of Structural Composite Lumber Products.
 - .8 ASTM E96/E96M-05, Standard Test Methods for Water Vapor Transmission of Materials.
- .2 Canadian Standards Association (CSA).
 - .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 O80 Series-97 (R2007), Wood Preservation.
 - .4 CAN/CSA O86-01 CONSOLIDATION (R2006), Engineering Design in Wood.
 - .5 CSA O121-08, Douglas Fir Plywood.
 - .6 CSA O141-05, Softwood Lumber.
 - .7 CSA O151-04, Canadian Softwood Plywood.
 - .8 CSA O153-M1980 (R2003), Poplar Plywood.
 - .9 CSA O325-07, Construction Sheathing.
- .3 National Lumber Grades Authority (NLGA).
 - .1 NLGA Special Products Standard for Fingerjoined Structural Lumber, 2007.
 - .2 NLGA Standard Grading Rules for Canadian Lumber, 2007.
- .4 National Building Code of Canada, 2005 (NBCC).

1.3 QUALITY ASSURANCE

- .1 Lumber identification: by grade stamp of agency certified by Canadian Lumber Standards Accreditation Board.
- .2 Plywood identification: by grade mark in accordance with applicable CSA standards.

1.4 DELIVERY, STORAGE, AND HANDLING

- .1 Deliver all material to site in manufacturer's original unopened packaging with labels clearly identifying product name and manufacturer.
- .2 Store materials in a dry, enclosed area protected from exposure to moisture, construction activity, and direct sunlight in strict accordance with manufacturer's recommendations.
- .3 Handle all products with appropriate precautions and care as stated manufacturer's instructions.
- .4 Cleaning and Waste Management in accordance with Section 01 74 00.

Part 2 Products

2.1 LUMBER MATERIAL

- .1 Lumber: unless specified otherwise, softwood, S4S, moisture content 19% or less in accordance with CSA O141 and NLGA Standard Grading Rules for Canadian Lumber.
- .2 Machine stress-rated lumber: acceptable for all purposes.
- .3 Glued end-jointed (finger-jointed) lumber is not acceptable.
- .4 Framing and board lumber: in accordance with NBCC.
- .5 Furring, blocking, nailing strips, grounds, rough bucks, cants, curbs, panel and soffit backing:
 - .1 Use S2S or S4S material.
 - .2 Board sizes: "Standard" or better grade.
 - .3 Dimension sizes: "Standard" light framing or better grade.
 - .4 Post and timber sizes: "Standard" or better grade.

2.2 PANEL MATERIAL

- .1 Construction Sheathing: to CSA O325.
- .2 Plywood Standards: type, grade and thickness as indicated, made with binder containing no urea-formaldehyde, and in accordance with following standards:
 - .1 Douglas fir plywood (DFP): to CSA O121, standard construction.
 - .2 Canadian softwood plywood (CSP): to CSA O151, standard construction.
 - .3 Poplar plywood (PP): to CSA O153, standard construction.

2.3 ACCESSORIES

- .1 Nails, spikes and staples: to CSA B111.
- .2 Fasteners for Gypsum Board Sheathing: self drilling screws to ASTM C954.
- .3 Bolts: 12.5 mm diameter unless indicated otherwise, complete with nuts and washers.
- .4 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.

Part 3 Execution

3.1 INSTALLATION

- .1 Install members true to line, levels and elevations, square and plumb.
- .2 Construct continuous members from pieces of longest practical length.
- .3 Install spanning members with "crown-edge" up.
- .4 Install furring and blocking as required to space-out and support casework, cabinets, wall and ceiling finishes, facings, electrical equipment mounting boards, and other work as required.
- .5 Install rough bucks, nailers and linings to rough openings as required to provide backing for frames and other work.
- .6 Provide wood blocking where required to provide support for wall or ceiling mounted items specified or detailed including wall mounted door stops.
- .7 Provide backboards for mounting electrical equipment as required. Use 19 mm thick DFP or CSP on 19 x 38 mm furring around perimeter and at maximum 300 mm intermediate spacing. Paint both sides of backboards in accordance with Section 09 90 00 before installation.

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