
Part 1 General

1.1 REFERENCES

- .1 American Society for Testing and Materials International (ASTM)
 - .1 ASTM F1667-11a, Standard Specification for Driven Fasteners: Nails, Spikes, and Staples
- .2 Canadian Standards Association (CSA International)
 - .1 CAN/CSA-G164-M92(R1998), Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .2 CAN/CSA-O141-05, Softwood Lumber.
 - .3 CSA O151-04, Canadian Softwood Plywood.
- .3 National Lumber Grades Authority (NLGA)
 - .1 Standard Grading Rules for Canadian Lumber 2007.

1.2 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.

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:
 - .1 S2S is acceptable.
 - .2 Board sizes: "Standard" or better grade.
 - .3 Dimension sizes: "Standard" light framing or better grade.
 - .4 Post and timbers sizes: "Standard" or better grade.

2.2 PANEL MATERIALS

- .1 Canadian softwood plywood (CSP): to CSA O151, standard construction.
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2.3 ACCESSORIES

- .1 Nails, spikes and staples: to ASTM F1667-11ae1
- .2 Bolts: 12.5 mm diameter unless indicated otherwise, complete with nuts and washers.
- .3 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 CAN/CSA-G164, use galvanized fasteners for exterior work, pressure-preservative treated lumber.

2.5 WOOD PRESERVATIVE

- .1 Surface-applied wood preservative: copper naphthenate water repellent preservative.

Part 3 Execution

3.1 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 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 material as indicated and as follows:
 - .1 Wood sills over concrete slabs in contact with ground or fill.

3.2 INSTALLATION

- .1 Comply with requirements of NBC, supplemented by the following paragraphs.
 - .2 Install furring and blocking as required to space-out and support wall and ceiling finishes 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 backing, nailers, curbs and other wood supports as required and secure using galvanized fasteners.
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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.

3.4 PLYWOOD BACKBOARDS FOR ELECTRICAL EQUIPMENT

- .1 Provide plywood backboards for mounting electrical equipment where indicated. Use 19 mm thick plywood painted with fire retardant white paint on all six surfaces.

END OF SECTION

Part 1 General

1.1 RELATED SECTIONS

- .1 Section 01 00 10 – General Instructions.
- .2 Section 01 33 00 - Submittal Procedures.
- .3 Section 01 61 00 - Common Product Requirements.
- .4 Section 01 45 00 - Quality Control.
- .5 Section 07 92 00 - Joint Sealing.

1.2 REFERENCES

- .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM E1333-96, Standard Test Method for Determining Formaldehyde Concentrations in Air and Emission Rates From Wood Products Using a Large Chamber.
 - .2 ASTM D2832-92(R1999), Standard Guide for Determining Volatile and Nonvolatile Content of Paint and Related Coatings.
 - .3 ASTM D5116-97, Standard Guide For Small-Scale Environmental Chamber Determinations of Organic Emissions From Indoor Materials/Products.
 - .2 Architectural Woodwork Manufacturers Association of Canada (AWMAC)
 - .1 Architectural Woodwork Manufacturers' Association of Canada (AWMAC)
 - .1 Architectural Woodwork Standards (AWS), Edition 1, 2009.
 - .3 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-71.20-M88, Adhesive, Contact, Brushable.
 - .4 Canadian Standards Association (CSA)
 - .1 CSA B111-74(R1998, Wire Nails, Spikes and Staples.
 - .2 CSA O112.4-M1977(R1999), Standards for Wood Adhesives.
 - .3 CSA O112.5-Series-M-1977(R1999), Urea Resin Adhesives for Wood (Room- and High-Temperature Curing).
 - .4 CSA O112.7-Series M-1977(R1999), Resorcinol and Phenol-Resorcinol Resin Adhesives for Wood (Room- and Intermediate-Temperature Curing).
 - .5 CSA O115-M1982(R2001), Hardwood and Decorative Plywood.
 - .6 CSA O121-M89(R1998), Douglas Fir Plywood.
 - .7 CAN/CSA O141-91R1999, Softwood Lumber.
 - .8 CSA O151-M1978(R1998), Softwood Plywood.
 - .9 CSA O153-M1980(R1998), Poplar Plywood.
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- .5 National Hardwood Lumber Association (NHLA)
 - .1 Rules for the Measurement and Inspection of Hardwood and Cypress , January 1996.
- .6 National Lumber Grades Authority (NLGA)
 - .1 Standard Grading Rules for Canadian Lumber, 2000.

1.3 SHOP DRAWINGS

- .1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Indicate details of construction, profiles, jointing, fastening and other related details.
 - .1 Scales: profiles full size, details 1/2 full size.
- .3 Indicate materials, thicknesses, finishes and hardware.

1.4 SAMPLES

- .1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit duplicate samples: sample size 200 mm long of glazing frames, sash and base.
- .3 Submit duplicate samples of glazing frames, sash, transom frames and base of entrance glazing. Profiles, sizes and finishes to be approved by Departmental Representative.

1.5 DELIVERY, STORAGE, AND HANDLING

- .1 Deliver, handle, store and protect materials of this section in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Protect millwork against dampness and damage during and after delivery.
- .3 Store millwork in ventilated areas, protected from extreme changes of temperature or humidity.

Part 2 Products

2.1 MATERIALS

- .1 Softwood lumber: unless specified otherwise, S4S, moisture content 15% or less in accordance with following standards:
 - .1 CAN/CSA-O141.
 - .2 NLGA Standard Grading Rules for Canadian Lumber.
 - .3 AWMAC premium grade, moisture content as specified.
- .2 Machine stress-rated lumber is acceptable for all purposes.

- .3 Hardwood lumber: moisture content 12% or less in accordance with following standards:
 - .1 National Hardwood Lumber Association (NHLA).
 - .2 AWMAC custom grade, moisture content as specified.
- .4 Douglas fir plywood (DFP): to CSA O121, standard construction.
- .5 Hardwood plywood: to CSA O115.
- .6 Nails and staples: to CSA B111.
- .7 Wood screws: stainless steel, type and size to suit application.
- .8 Splines: wood.
- .9 Sealant: One component, polyurethane, for interior, exterior use in aluminum, wood, glazing, curtain wall joints, heel beads, toe beads, air seals, to CAN/CGSB 19.13, colour selected by Departmental Representative.

2.2 MANUFACTURED UNITS

- .1 Storefront Glazing Frames, Sash, Transom and Base.
 - .1 Fabricate new custom storefront glazing to match materials, dimensions, profiles and finishes of existing vestibule storefront glazing system.
 - .2 Solid wood: oak species, premium grade, thickness and profiles to match existing.

2.3 FABRICATION

- .1 Set nails and countersink screws apply plain wood filler to indentations, sand smooth and leave ready to receive finish.
- .2 Shop assemble work for delivery to site in size easily handled and to ensure passage through building openings.
- .3 Obtain governing dimensions before fabricating items which are to accommodate or abut appliances, equipment and other materials.

2.4 FINISHING

- .1 Primer and paint finishes in accordance with Section 099123_Interior Painting. Colour and gloss to match paint finishes existing storefront.

Part 3 Execution

3.1 INSTALLATION

- .1 Do architectural woodwork to Quality Standards of the Architectural Woodwork Manufacturers Association of Canada (AWMAC), except where specified otherwise.
- .2 Install prefinished woodwork at locations shown on drawings. Position accurately, level, plumb straight.
- .3 Fasten and anchor woodwork securely.
- .4 Scribe and cut as required to fit abutting walls and to fit properly into recesses and to accommodate piping, columns, fixtures, outlets or other projecting, intersecting or penetrating objects.
- .5 Fit hardware accurately and securely in accordance with manufacturer's written instructions.

3.2 CLEANING

- .1 Clean all surfaces of millwork.
- .2 Remove excess glue from surfaces.

3.3 PROTECTION

- .1 Protect installation from damage until final inspection.

END OF SECTION
