

PART 1 - GENERAL

1.1 RELATED  
SECTIONS

- .1 Section 06 10 00 - Rough Carpentry.

1.2 REFERENCES

- .1 American National Standards Institute (ANSI)
    - .1 ANSI A208.1-09, Particleboard.
    - .2 ANSI A208.2-09, Medium Density Fibreboard (MDF).
    - .3 ANSI/HPVA HP-1-2016, Standard for Hardwood and Decorative Plywood.
  - .2 American Society for Testing and Materials International (ASTM)
    - .1 ASTM E 1333-96(2014), Standard Test Method for Determining Formaldehyde Concentrations in Air and Emissions Rates from Wood Products Using a Large Chamber.
  - .3 Architectural Woodwork Manufacturers Association of Canada (AWMAC) and Architectural Woodwork Institute (AWI)
    - .1 Architectural Woodwork Standards Manual (Edition 2).
  - .4 Canadian General Standards Board (CGSB)
    - .1 CAN/CGSB-11.3-M87, Hardboard.
  - .5 Canadian Plywood Association (CanPly)
    - .1 The Plywood Handbook 2012.
  - .6 Canadian Standards Association (CSA International)
    - .1 CSA B111-74(R2003), Wire Nails, Spikes and Staples.
    - .2 CAN/CSA-G164-M92(R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.
    - .3 CSA O121-08(R2013), Douglas Fir Plywood.
    - .4 CAN/CSA O141-05(R2014), Softwood Lumber.
    - .5 CSA O151-09(R2014), Canadian Softwood Plywood.
  - .7 National Lumber Grades Authority (NLGA)
    - .1 Standard Grading Rules for Canadian Lumber 2005.
  - .8 Underwriters Laboratories of Canada (ULC)
    - .1 CAN4-S104-80(R1985), Standard Method for Fire Tests of Door Assemblies.
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1.2 REFERENCES  
(Cont'd)

- .8 (Cont'd)
- .2 CAN4-S105-85(R1992), Standard Specification for Fire Door Frames, meeting the Performance Required by CAN4-S104.

1.3 SUBMITTALS

- .1 Submit Submittal submissions: in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Sustainable Submittals:
  - .1 Co-ordinate submittal requirements and provide submittals required by Section 01 33 00 - Submittal Procedures: Construction.
- .3 Shop Drawings Submittals: in accordance with Section 01 33 00 - Submittal Procedures.
  - .1 Indicate details of construction, profiles, jointing, fastening and other related details.
  - .2 Indicate materials, thicknesses, finishes and hardware.

1.4 QUALITY  
ASSURANCE

- .1 Lumber by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.
- .2 Plywood, particleboard, OSB and wood based composite panels in accordance with CSA and ANSI standards.

1.5 DELIVERY,  
STORAGE, AND  
HANDLING

- .1 Deliver, handle, store and protect materials in accordance with Section 01 61 00 - Common Product Requirements.
  - .1 Protect materials against dampness during and after delivery.
  - .2 Store materials in ventilated areas, protected from extreme changes of temperature or humidity.
- .2 Waste Management and Disposal:
  - .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

PART 2 - PRODUCTS

- 2.1 LUMBER MATERIAL .1 Softwood lumber: unless specified otherwise, S4S, moisture content 19% or less in accordance with following standards:
- .1 CAN/CSA-0141.
  - .2 NLGA Standard Grading Rules for Canadian Lumber.
  - .3 AWMAC premium grade, moisture content as specified.
- 2.2 PANEL MATERIAL .1 Douglas fir plywood (DFP): to CSA 0121, standard construction.
- .1 Forestry Stewardship Council (FSC) certified.
- .2 Canadian softwood plywood (CSP): to CSA 0151, standard construction.
- .1 Forestry Stewardship Council (FSC) certified.
- .3 Hardwood plywood: to ANSI/HPVA HP-1.
- 2.3 ACCESSORIES .1 Nails and staples: to CSA B111; galvanized to CAN/CSA-G164 for exterior work, interior humid areas and for treated lumber; galvanized stainless steel finish elsewhere.
- .2 Wood screws: copper galvanized stainless steel, type and size to suit application.

PART 3 - EXECUTION

- 3.1 INSTALLATION .1 Do finish carpentry to Quality Standards of the Architectural Woodwork Manufacturers Association of Canada (AWMAC), except where specified otherwise.
- .2 Scribe and cut as required, fit to abutting walls, and surfaces, fit properly into recesses and to accommodate piping, columns, fixtures, outlets, or other projecting, intersecting or penetrating objects.
- .3 Form joints to conceal shrinkage.

3.2 CONSTRUCTION

- .1 Fastening:
  - .1 Position items of finished carpentry work accurately, level, plumb, true and fasten or anchor securely.
  - .2 Design and select fasteners to suit size and nature of components being joined. Use proprietary devices as recommended by manufacturer.
  - .3 Set finishing nails to receive filler. Where screws are used to secure members, countersink screw in round smooth cut hole and plug with wood plug to match material being secured.
  - .4 Replace items of finish carpentry with damage to wood surfaces including hammer and other bruises.
- .2 In so far as practicable assemble the work at the mill and deliver to the site ready for installation.
- .3 Where it will be necessary to cut and fit on the job, fabricate with ample allowance for cutting and fitting.
- .4 Fabricate work according to job measurements.
- .5 Mouldings and trim shall be true to detail and cleanly cut with sharp profiles.
- .6 Machine sand all exposed surfaces to a smooth, even surface and leave ready for finishing.
- .7 Make joints with concealed nailing and screwing where practicable or with mortise, tenons, dowels and glued joints.
- .8 Do all nailing in hardware in predrilled countersunk holes.
- .9 Countersink exposed nails where use is unavoidable, fill the holes neatly.
- .10 Use only water-resistant glue conforming with the applicable CSA Specification.
- .11 Scribe, mitre, join accurately and neatly to conform with details. All joints unless otherwise detailed shall be hairline.
- .12 Neatly cope intersecting moulding and internal corners (do not mitre).
- .13 Fabrication and installation shall be performed only by craftsmen skilled and experienced in this work.

3.2 CONSTRUCTION  
(Cont'd)

- .14 Install finished work plumb, true and square as indicated and detailed on the drawings.
- .15 Blind nail finished work to nailing strips, blocking, furring, grounds, etc.

3.3 DOOR HANGING

- .1 Unless otherwise specified elsewhere in the specification, install all metal and wood doors and install all hardware for these doors as supplied under Section 08 71 00 - Door Hardware.
- .2 Co-operate fully with other trades so as not to interrupt schedules and ensure smooth and continuous progress of work.

3.4 SETTING OF DOOR  
FRAMES

- .1 Install all door frames to exact locations as indicated on the drawings and/or scope of work.
- .2 Co-operate fully with other trades so as not to interrupt schedules and ensure smooth and continuous progress of work.
- .3 Door frames shall be set plumb, square and true, properly braced and complete with bottom spacer and clip angles.
- .4 Ensure that all anchors are in place and adjustable and the work is ready for proper building in.
- .5 Brace frames solidly in position where being built into masonry or drywall. Install temporary horizontal wood spreader at mid-height of frame until adjacent work is completed.

3.5 HARDWARE

- .1 Take delivery of hardware and assume full responsibility for it until building is handed over to the Owner.
- .2 Install hardware as specified and according to schedules.
- .3 Install finishing hardware supplied by Section 08 71 00 - Door Hardware and other hardware required for installation and function work of this section. Accurately locate and cut for hardware using tools and jigs recommended by Supplier. Adjust to function as intended.

3.5 HARDWARE  
(Cont'd)

- .4 Adjust doors and hardware to operate smoothly and without binding. Adjust doors to fit tightly and to remain place at all stages of opening. Lubricate hardware as recommended by supplier.
- .5 Clean hardware, as recommended by supplier, and wood to leave free from finish defects on any exposed surface.
- .6 Do all cutting and fitting required for hardware installation.
- .7 Handle hardware items carefully. Keep free from scratches, dents and other defacements.
- .8 Cover knobs, handles and the like until completion of painting.
- .9 Examine hardware at work completion. Test, oil grease, ease and adjust hardware in perfect condition.