

PART 1 GENERAL**1.1 INCLUDED WORKS**

- .1 Wall, floor, roof, ceiling, interior partitions and closure device system.
- .2 All the fastening strips required in architecture (toilet partitions, grab bars, built-in furniture, accessories, etc.) and in mechanical engineering (sinks, urinals, access hatches, etc.)
- .3 Access hatches in the gypsum providing access to hatches or to electro-mechanical systems (refer to engineering plans if required).
- .4 Leveling around new openings (doors, grills and other separations required in architecture and engineering) as well as around existing openings to be preserved (doors, windows etc.).
- .5 Leveling and construction required at the junction of preserved existing walls and new walls (including at the foundations).
- .6 Watertightness of openings (for products see 07 92 10).
- .7 Protection of flooring, once installed.
- .8 Other work indicated in the plans or necessary for proper execution of the work.

1.2 RELATED REQUIREMENTS

- .1 To be coordinated with all other sections of these specifications.

1.3 REFERENCES

- .1 American National Standards Institute/National Particleboard Association (ANSI/NPA)
 - .1 ANSI/NPA A208.1-[2009], Particleboard.
- .2 ASTM International
 - .1 ASTM C1396/C1396M-[11], Standard Specification for Gypsum Board.
 - .2 ASTM D1761-[06], Standard Test Methods for Mechanical Fasteners in Wood.
- .3 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-11.3-[M87], Hardboard.
- .4 CSA International
 - .1 CAN/CSA-A123.2-[03(R2008)], Asphalt Coated Roofing Sheets.
 - .2 CAN/CSA-A247-[M86(R1996)], Insulating Fiberboard.
 - .3 CSA B111-[1974(R2003)], Wire Nails, Spikes and Staples.
 - .4 CSA O112.9-[10], Evaluation of Adhesives for Structural Wood Products (Exterior Exposure).
 - .5 CSA O121-[08], Douglas Fir Plywood.
 - .6 CAN/CSA O122-[06(R2011)], Structural Glued-Laminated Timber.
 - .7 CSA O141-[05(R2009)], Softwood Lumber.
 - .8 CSA O151-[09], Canadian Softwood Plywood.
 - .9 CSA O153-[M1980(R2008)], Poplar Plywood.

- .10 CSA O325-[07], Construction Sheathing.
- .11 CSA O437 Series-[93(R2011)], Standards on OSB and Waferboard.
- .5 National Lumber Grades Authority (NLGA)
 - .1 Standard Grading Rules for Canadian Lumber [2010].

1.4 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for wood products and accessories and include product characteristics, performance criteria, physical size, finish and limitations.
- .2 Shop Drawings:
 - .1 Provide shop drawings: in accordance with Section 01 33 00 - Submittal Procedures.

1.5 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.

1.6 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
 - .1 Store materials indoors in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect wood from nicks, scratches, and blemishes.
 - .3 Replace defective or damaged materials with new.

PART 2 PRODUCTS

2.1 FRAMING STRUCTURAL AND PANEL MATERIALS

- .1 Lumber: softwood, S4S, moisture content 19% S-dry or less in accordance with following standards:
 - .1 CSA O141.
 - .2 NLGA Standard Grading Rules for Canadian Lumber.
- .2 Furring, blocking, nailing strips, grounds, rough bucks, curbs and sleepers:
- .3 Plywood, OSB and wood based composite panels: to CSA O325.
- .4 Douglas fir plywood (DFP): to CSA O121, standard construction.
- .5 Interior mat-formed wood particleboard: to ANSI/NPA 208.1.

- .6 Insulating fiberboard sheathing: to [CAN/CSA-A247] [CAN/ULC-S706].

PART 3 EXECUTION

3.1 EXAMINATION

- .1 Verification of Conditions: verify conditions of substrates previously installed under other Sections or Contracts are acceptable for product installation in accordance with manufacturer's written instructions.
 - .1 Visually inspect substrate in presence of [Departmental Representative] [DCC Representative] [Consultant].
 - .2 Inform [Departmental Representative] [DCC Representative] [Consultant] 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] [DCC Representative] [Consultant]].

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 one minute soak on plywood.
- .3 Re-treat surfaces exposed by cutting, trimming or boring with liberal brush application of preservative before installation.

3.3 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 Select exposed framing for appearance. Install lumber 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 casework, cabinets, wall and ceiling finishes, facings, fascia, soffit, siding [electrical equipment mounting boards], and other work as required.
- .6 Install furring to support siding applied vertically [where there is no blocking and] where sheathing is not suitable for direct nailing.
 - .1 Align and plumb faces of furring and blocking to tolerance of 1:600.
- .7 Install rough bucks, nailers and linings to rough openings as required to provide backing for frames and other work.
- .8 Install wood cants, fascia backing, nailers, curbs and other wood supports as required and secure using galvanized steel]fasteners.
- .9 Install sleepers as indicated.
- .10 Use dust collectors and high quality respirator masks when cutting or sanding wood panels.

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- .11 Frame, anchor, fasten, tie and brace members to provide necessary strength and rigidity.
- .12 Countersink bolts where necessary to provide clearance for other work.
- .13 Use nailing disks for soft sheathing as recommended by sheathing manufacturer.

3.4 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleanin].

3.5 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by rough carpentry installation.

END OF SECTION

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

1. N/A.

1.2 REFERENCES

1. American Society for Testing and Materials International (ASTM)
 1. ASTM A 123/A 123M-13, Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
 2. ASTM A 653/A 653M-09, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
2. Canadian Standards Association (CSA International)
 1. CSA B111-1974 (R2003), Wire Nails, Spikes and Staples.
 2. CAN/CSA-G164-FM92(C2003), Hot Dip Galvanizing of Irregularly Shaped Articles.
 3. CSA O141-F05, Softwood Lumber.
 4. CSA O151-F04, Canadian Softwood Plywood.
 5. CSA O153-FM1980 (C2003), Poplar Plywood.
3. Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 1. Material Safety Data Sheets (MSDS).
4. National Lumber Grades Authority (NLGA)
 1. Standard Grading Rules for Canadian Lumber 2005.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

1. Submit Submittal submissions: in accordance with Section 01 33 00 - Submittal Procedures.

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 grademark in accordance with applicable CSA standards.

1.5 DELIVERY, STORAGE, AND HANDLING

1. Store the material at temperatures and humidity levels that will ensure the physical and aesthetic integrity of the projects delivered to the construction site.
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2. 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. 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.
 3. Forest Stewardship Council (FSC) certified.
2. Furring, blocking, nailing strips, grounds, rough bucks, cants curbs, fascia backing and sleepers.
 1. Post and timbers sizes: "Standard" or better grade for nailing bases that will not be visible.
 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.
3. Treated wood will be pressure treated in compliance with the CSA 080.1 standard, using a CCA preservation product so as to obtain a net retention of 6,4 kg/m² of wood. Acceptable product: "Preserve" from ACQ or "ProNature" from Goodfellow, without arsenic or equivalent approved.

2.2 PANEL MATERIALS

1. Canadian softwood plywood (CSP): to CSA O151, standard construction.
 1. Urea-formaldehyde free.
 2. Forest Stewardship Council (FSC) certified.
2. Poplar Plywood: to CSA O153, standard construction, urea-formaldehyde free.
 1. Urea-formaldehyde free.
 2. Forest Stewardship Council (FSC) certified.

2.3 ACCESSORIES

1. Nails, spikes and staples: to CSA B111.
 2. 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.
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2.4 FINISHES

1. Galvanizing: to CAN/CSA-G164, ASTM A 653/A 653M, use galvanized fasteners for exterior work, interior highly humid areas, pressure- preservative, fire-retardant and treated lumber.

PART 3 - EXECUTION

3.1 PREPARATION

1. N/A.

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 casework, cabinets, wall and ceiling finishes, facings, fascia, soffit, siding and other work as required. Align and plumb faces of furring and blocking to tolerance of 1:600.
3. Install rough bucks, nailers and linings to rough openings as required to provide backing for frames and other work.
4. Install wood cants, fascia backing, nailers, curbs and other wood supports as required and secure using galvanized steel fasteners.
5. Install wall plates, strips and furring as specified.
6. Do not work on particle panels without taking the required precautions. Use dust collectors and wear a high-quality breathing apparatus.
7. Install treated plywood nailing strips and bases around the bay windows to ensure that frames and other finishing works around openings are supported, as specified by the manufacturer.
8. Install the nailing beds required to support all of the integrated furniture elements or accessories: window sills, etc.

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

PART 1 GENERAL**1.1 INCLUDED WORK**

1. New casing for existing door or windows.
2. All other items shown on the plans

PART 2 PRODUCTS**2.1 MATERIALS**

- .1 Primed mdf casing to be painted, see details for dimensions.
- .2 Adhesif : casein glue
- .3 Sealant: in accordance with Section 07 92 00 - Joint Sealants

PART 3 EXECUTION

- .1 All wall moldings must be glued to the gypsum and to each another, without separation or break.
- .2 Select extrusions carefully, leaving out any sections with flaws. Cut the pieces with precision and smooth out free edges of moldings to eliminate roughness.
- .3 Make all corners of the moldings meet at a 45-degree angle, with no free play.
- .4 Punch using a finishing nail and fill in all holes with non-shrink wood putty.
- .5 Fit hardware accurately and securely in accordance with manufacturer's written instructions.

END OF SECTION

PART 1 GENERAL**1.1 RELATED WORKS**

1. Section 06 10 00 – Rough Carpentry

1.2 REFERENCES

- .1 BNQ 3156-010.
- .2 Architectural Woodwork Manufacturers Association of Canada (AWMAC) and Architectural Woodwork Institute (AWI)

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Shop Drawings:
 - .1 Indicate details of construction, profiles, jointing, fastening and other related details.
 - .2 Indicate materials, thicknesses, finishes and hardware.
 - .3 Indicate locations of service outlets in casework, and connections, attachments, anchorage and location of exposed fastenings.

1.4 DIMENSIONS

Verify all dimensions and conditions on site before starting production of all cabinets units.

PART 2 PRODUCTS**2.1 MATERIALS**

- .1 Laminate particuleboard, thickness 16mm, with EPP certification, color : Formica, Weathered Ash, 8842-58, or equivalent approved by the Departmental Representative prior to bid submission .
- .2 Sealant: in accordance with Section 07 92 00 - Joint Sealants, type silicone, color to be chosen by Ministry representative.
- .3 Architectural hardware:
 - .1 Clip Hinge :170 degrees, 107 degrees
 - .2 Cam Mouting plate.
 - .3 Handle Pull : Contemporary Stanless Stelle handle pull, 185mm x 3mm
 - .4 Bumper : Clear, diameter 7,9mm, height 2,2mm
 - .5 Shelf Support : plastic Shelf Support, 5mm, color white.

2.2 FABRICATION

- .1 Set nails and countersink screws apply [stained] [plain] wood filler to indentations, sand smooth and leave ready to receive finish.
- .2 Shop install cabinet hardware for doors, shelves and drawers. Recess shelf standards unless noted otherwise.

- .3 Shelving to cabinetwork to be adjustable unless otherwise noted.
- .4 Provide cutouts for plumbing fixtures, inserts, appliances, outlet boxes and other fixtures.
- .5 Shop assemble work for delivery to site in size easily handled and to ensure passage through building openings.
- .6 Obtain governing dimensions before fabricating items which are to accommodate or abut appliances, equipment and other materials.
- .7 Ensure adjacent parts of continuous laminate work match in colour and pattern.
- .8 Veneer laminated plastic to core material in accordance with adhesive manufacturer's instructions. Ensure core and laminate profiles coincide to provide continuous support and bond over entire surface. Use continuous lengths up to 2400 mm. Keep joints 600 mm from sink cutouts.
- .9 Form shaped profiles and bends as indicated, using postforming grade laminate to laminate manufacturer's instructions.
- .10 Use straight self-edging laminate strip for flatwork to cover exposed edge of core material. Chamfer exposed edges uniformly at approximately 20 degrees. Do not mitre laminate edges.
- .11 Apply laminate backing sheet to reverse side of core of plastic laminate work.
- .12 Apply laminated plastic liner sheet [to interior of cabinetry] [where indicated].

PART 3 EXECUTION

3.1 INSTALLATION

- .1 Do architectural woodwork to Quality Standards of AWMAC.
- .2 Install prefinished millwork at locations shown on drawings.
 - .1 Position accurately, level, plumb straight.
- .3 Fasten and anchor millwork securely.
 - .1 Supply and install heavy duty fixture attachments for wall mounted cabinets.
- .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 At junction of plastic laminate counter back splash and adjacent wall finish, apply small bead of sealant in accordance with Section [07 92 00 - Joint Sealants].
- .6 Apply [water resistant building paper] [bituminous coating] over wood framing members in contact with masonry or cementitious construction.
- .7 Fit hardware accurately and securely in accordance with manufacturer's written instructions.

END OF SECTION