

**Part 1            General**

**1.1                RELATED REQUIREMENTS**

- .1    Section 06 03 15 - Historic - Splicing of Wood Components.
- .2    Section 06 03 16 - Historic - Storage and Protection of Wood.
- .3    Section 06 15 00 - Wood Decking.
- .4    Section 07 61 00 - Sheet Metal Roofing.

**1.2                REFERENCES**

- .1    ASTM International
  - .1    ASTM A123/A123M, Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
  - .2    ASTM A653/A653M, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanealed) by the Hot-Dip Process.
- .2    CSA International
  - .1    CSA B111, Wire Nails, Spikes and Staples.
  - .2    CSA O141, Softwood Lumber.
  - .3    CSA O151, Canadian Softwood Plywood.
  - .4    CSA O325, Construction Sheathing.
  - .5    CAN/CSA-Z809, Sustainable Forest Management.
- .3    Forest Stewardship Council (FSC)
  - .1    FSC-STD-01-001, FSC Principle and Criteria for Forest Stewardship.
- .4    National Lumber Grades Authority (NLGA)
  - .1    Standard Grading Rules for Canadian Lumber 2012.
- .5    South Coast Air Quality Management District (SCAQMD), California State, Regulation XI. Source Specific Standards
  - .1    SCAQMD Rule 1113, Architectural Coatings.
  - .2    SCAQMD Rule 1168, Adhesives and Sealants Applications.
- .6    Sustainable Forestry Initiative (SFI)
  - .1    SFI-2015-2019 Standard.

**1.3                ACTION AND INFORMATIONAL SUBMITTALS**

- .1    Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2    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 Wood Certification: submit manufacturer's Chain-of-Custody Certificate number for CAN/CSA-Z809 or FSC or SFI certified wood.

#### **1.4 QUALITY ASSURANCE**

- .1 Lumber by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.
- .2 Plywood: in accordance with CSA and ANSI standards.
- .3 Sustainable Standards Certification:
  - .1 Certified Wood: submit listing of wood products and materials used in accordance with CAN/CSA-Z809 or FSC or SFI.

#### **1.5 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver, store and handle materials in accordance with Section [01 61 00 - Common Product Requirements, la section 06 03 16 - Historic - Storage and Protection of Wood, and 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 off ground, 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.
- .4 Packaging Waste Management: remove in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

### **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.
  - .3 Products certified in accordance with CAN/CSA-Z809 or FSC or SFI
- .2 Framing components: in accordance with Section 06 03 15 - Historic - Splicing of Wood Components.
- .3 Decking: in accordance with Section 06 15 00 - Wood decking.

- .4 Battens (for sheet metal roofing), ridge and hips: in accordance with Section 07 61 00 – Sheet Metal Roofing.
- .5 Furring, blocking, nailing strips, grounds, rough bucks, and sleepers:
  - .1 S2S is acceptable.
  - .2 Board sizes: "Standard" or better grade.
  - .3 Dimension sizes: "Standard" light framing or better grade.
- .6 Spruce plywood: in accordance with CSA O151, grade « construction », quality « select ».
  - .1 16 mm thick, tongued and grooved (CANPLY Exterior Easy T & G), type « exterior sheathing » for roofing.
  - .2 Without urea formaldehyde.
  - .3 Products certified CAN/CSA-Z809 or FSC or SFI.
- .7 Spruce plywood: in accordance with CSA O151, grade « construction », quality « select ».
  - .1 19 mm thick, type « exterior sheathing » for roofing.
  - .2 Without urea formaldehyde.
  - .3 Products certified CAN/CSA-Z809 or FSC or SFI.
- .8 Mahogany, dimensions as indicated on the architectural drawings.

## 2.2 ACCESSORIES

- .1 Air seal: closed cell polyurethane or polyethylene.
- .2 Sealants: in accordance with Section 07 92 00 - Joint Sealants.
- .3 General purpose adhesive: to CSA O112.9.
- .4 Nails, spikes and staples: to CSA B111.
- .5 Bolts: 12.5 mm diameter unless indicated otherwise, complete with nuts and washers.
- .6 Framing screws to fasten plywood panels to wood decking of roof.
- .7 Screws for concrete to fasten plywood panels to concrete copings.
- .8 Stainless steel screws to assemble the mahogany boards.
- .9 Fastener Finishes:
  - .1 Galvanizing: to ASTM A123/A123M, use galvanized fasteners for exterior work.
  - .2 Stainless steel: use stainless steel 316 alloy.

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**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.
  - .2 Inform Departmental Representative 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.

**3.2 MATERIAL USAGE**

- .1 Roof sheathing (above tongue-and-groove wood decking)
  - .1 Spruce plywood, « select » quality, 16 mm thick, tongued and grooved, other features in accordance with prescriptions of item 2.1 FRAMING STRUCTURAL AND PANEL MATERIALS.
- .2 Sheathing for chimney copings and for roof hatch covers
  - .1 Spruce plywood, « select » quality, 19 mm thick, other features in accordance with prescriptions of item 2.1 FRAMING STRUCTURAL AND PANEL MATERIALS.
- .3 Reinforcing boards for gutters
  - .1 Mahogany left natural.

**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 Install plywood roof sheathing in accordance with requirements of NBC.
  - .1 Install panels perpendicularly to decking and roof slope.
- .5 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.
- .6 Install rough bucks, nailers and linings to rough openings as required to provide backing for frames and other work.
- .7 Install wood cants, fascia backing, nailers, curbs and other wood supports as required and secure using galvanized steel fasteners.
- .8 Use dust collectors and high quality respirator masks when cutting or sanding wood panels.

- .9 Frame, anchor, fasten, tie and brace members to provide necessary strength and rigidity.
- .10 Countersink bolts where necessary to provide clearance for other work.

### **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 - Cleaning.
- .3 Waste Management: separate waste in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
  - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

### **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**