

The Executed Agreement including General Conditions and Supplementary Conditions, Division 01, applicable Drawings and amendments are part of and are to be read in conjunction with this Section.

## **PART 1 - GENERAL**

### **1.1 SUMMARY OF THIS SECTION**

- .1 As summarized and described herein, but not restricted to the following:
  - .1 To provide carpentry as noted in 06 10 00.
  - .2 Provide installation of doors and finish hardware
  - .3 To install items/components provided by other trades as noted.

### **1.2 REFERENCES**

- .1 CSA B111-1974 (R2003), Wire Nails, Spikes and Staples.
- .2 CAN/CSA G164-M92 (R2003), Hot Dip Galvanizing of Irregularly Shaped Articles
- .3 CAN/CSA-O141-05 (R2014), Softwood Lumber.
- .4 CSA-O151-09 (R2014), Canadian Softwood Plywood.
- .5 CAN/CSA-O80 Series 08 Wood Preservation.
- .6 CSA Z762-95 (R2011) Design for the Environment
- .7 NLGA: Standard Grading Rules for Canadian Lumber, latest edition.

### **1.3 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.

### **1.4 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate and recycle waste materials in accordance with Section 01 74 19 - Waste Management and Disposal.
  - .2 Separate wood waste and place in designated areas in the following categories for recycling: Solid wood/ softwood/ hardwood, composite wood, treated, painted, or contaminated wood in containers supplied by the Contractor.
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- .3 Set aside damaged wood and dimensional lumber off-cuts for acceptable alternative uses (e.g. bracing, blocking, cripples, bridging, finger-joining, or ties). Store this separated reusable wood waste convenient to cutting station and area of work.
- .4 Separate corrugated cardboard and place in designated areas for recycling.
- .5 Do not burn scrap at the project site.
- .6 Fold up metal banding, flatten, and place in designated area for recycling.

## **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, curbs, fascia backing and sleepers:
  - .1 G2S is acceptable for.
  - .2 Board sizes: "Standard" or better grade.
  - .3 Dimension sizes: "Standard" light framing or better grade.
- .3 The manufacturing process must adhere to Lifecycle Assessment (LCA) standards as per CSA Z762.
- .4 Use pressure treated lumber for all roof related items or when in contact with concrete.

### **2.2 PANEL MATERIAL**

- .1 Canadian softwood plywood (CSP), Spruce Species: to CSA-O151, Standard Construction.
- .2 Use pressure treated panel materials for all materials unless noted otherwise.

### **2.3 SEMI-RIGID INSULATION**

- .1 Refer to Section 07 21 13.

### **2.4 LATERALLY LOAD BEARING STUDS**

- .1 Refer to Section 05 41 00.
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## **2.5 FASTENERS**

- .1 Nails, spikes and staples: to CSA B111.
- .2 Bolts: 12.5mm 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, explosive actuated fastening devices, recommended for purpose by manufacturer.
- .4 Galvanizing: to CAN/CSA-G164, use galvanized fasteners for all exterior work interior highly humid areas and all pressure treated lumber panels.

## **2.6 PRESSURE TREATMENT**

- .1 Pressure treated wood (Alkaline Copper Quarternary) treatment in accordance with CAN/CSA-O80.

## **PART 3 - EXECUTION**

### **3.1 CONSTRUCTION**

- .1 Comply with requirements of NBC 2010, Part 9.
- .2 Trade Contractor to ensure the pressure treated lumber is totally encapsulated and not exposed anywhere in the building.

### **3.2 INSTALLATION**

- .1 Align and plumb faces of furring and blocking to tolerance of 1:600.
- .2 Install rough bucks, nailers and linings to rough openings as required to provide backing for frames and other work.
- .3 Install backing, nailers, curbs and other wood supports as required and secure using galvanized steel fasteners.
- .4 Install sleepers as indicated.

### **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.
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### **3.4 INSTALLATION OF DOOR HARDWARE**

- .1 Refer to Door Hardware Section 08 71 00 for installation**

### **3.5 ROUGH CARPENTRY SCHEDULE**

- .1 Parapet Construction & Anchorage:
- .1 ½" pressure treated plywood, both sides mechanically fastened at 6" o.c.
  - .2 1" thick treated wood blocking on the outer face, so the top layer of plywood slopes toward the roof side.
  - .3 Refer to details for height of curb and extent.
  - .4 Ensure parapet is leveled around perimeter.
- .2 Roof Curbs for Mechanical Equipment (Loadbearing):
- .1 Provide roof curbs for all roof mounted equipment, exhaust fans, hoods, etc. Ensure all curbs are level; refer to Dwgs for roof slopes. Curbs to be constructed of:
    - .1 2" x 6" at 16" o.c.
    - .2 ½" pressure treated plywood both sides, mechanically fastened.
    - .3 Semi-rigid insulation, Section 07 21 13.
- .3 Curbs not specified Elsewhere:
- .1 Provide roof curbs for all roof mounted equipment, exhaust fans, hoods, etc. Ensure all curbs are level; refer to Dwgs for roof slopes. Curbs to be constructed of:
    - .1 92mm steel studs at 16" o.c.
    - .2 ½" pressure treated plywood, mechanically fastened.
    - .3 Semi-rigid insulation, Section 07 21 13. ,
    - OR
    - .4 Solid built-up treated wood
- .4 Plywood Window and Door Bucks:
- .1 Provide ¾" thick pressure treated plywood and pressure treated wood blocking on all sides of the exterior wall system of the building for all openings.
  - .2 Door bucks 2" x 6" pressure treated wood on head and jamb.
  - .3 Provide galvanized fasteners for securement.

END OF SECTION