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PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 01 74 21 -  
Construction/Demolition Waste  
Management and Disposal.
- .2 Section 06 05 73 - Wood Treatment.
- .3 Section 06 17 53 - Shop-Fabricated  
Wood Trusses.
- .4 Section 07 92 10 - Joint Sealing.

1.2 REFERENCES

- .1 American Society for Testing and  
Materials (ASTM)
  - .1 ASTM C36/C36M, Specification  
for Gypsum Wallboard.  
ASTM C578, Specification for Rigid,  
Cellular Polystyrene Thermal  
Insulation.
  - .2 ASTM D5055, Specification for  
Establishing and Monitoring  
Structural Capacities of  
Prefabricated Wood I-Joists.
- .2 Canadian General Standards Board  
(CGSB)
  - .1 CAN/CGSB-51.32, Sheathing,  
Membrane, Breather Type.
  - .2 CAN/CGSB-51.34, Vapour Barrier,  
Polyethylene Sheet for Use in  
Building Construction.
  - .3 CAN/CGSB-71.26, Adhesive for  
Field-Gluing Plywood to Lumber  
Framing for Floor Systems.
- .3 Canadian Standards Association (CSA)
  - .1 CSA A123.2, Asphalt Coated  
Roofing Sheets.
  - .2 CAN/CSA-A247, Insulating  
Fiberboard.
  - .3 CSA B111, Wire Nails, Spikes  
and Staples.

- .4 CAN/CSA-G164, Hot Dip Galvanizing of Irregularly Shaped Articles.
- .5 CSA 0112 Series, CSA Standards for Wood Adhesives.
- .6 CSA 0121, Douglas Fir Plywood.
- .7 CAN/CSA-0141, Softwood Lumber.
- .8 CSA 0151, Canadian Softwood Plywood.
- .9 CAN/CSA-0325.0, Construction Sheathing.

- .4 National Lumber Grades Authority (NLGA)
  - .1 Standard Grading Rules for Canadian Lumber.

### 1.3 QUALITY ASSURANCE

- .1 Lumber identification: 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

### 1.4 SUBMITTALS

- .1 Submit proof of compatibility between Alkaline Copper Quaternary (ACQ) pressure treated lumber and fasteners to be utilized.

## PART 2 - PRODUCTS

### 2.1 FRAMING AND LUMBER MATERIALS

- .1 Lumber: unless specified otherwise, softwood, No. 1 or No. 2 grade, S4S, moisture content 19% (S-dry) or less in accordance with following standards:
  - .1 CAN/CSA-0141.
  - .2 NLGA Standard Grading Rules for Canadian Lumber.

- .2 Framing and board lumber: in accordance with NBC.
- .3 Furring, blocking, nailing strips, grounds, rough bucks, fascia backing and sleepers:
  - .1 Board sizes: "Standard" or better grade.
  - .2 Dimension sizes: "Standard" light framing or better grade.
  - .3 Post and timbers sizes: "Standard" or better grade.
- .4 Pressure treated material to be Alkaline Copper Quaternary (ACQ).

## 2.2 PANEL MATERIALS

- .1 Plywood, OSB and wood based composite panels: to CAN/CSA-0325.0.
- .2 Douglas fir plywood (DFP): to CSA 0121, standard construction.
- .3 Canadian softwood plywood (CSP): to CSA 0151, standard construction.
- .4 Insulating fiberboard sheathing: to CAN/CSA-A247.

## 2.3 ACCESSORIES

- .1 Exterior wall sheathing paper: to CAN/CGSB-51.32 single ply, spunbonded olefin type coated impregnated as indicated.
- .2 Sill Gasket Air seal: closed cell polyurethane or polyethylene.
- .3 Sealants: Section 07 92 10 - Joint Sealing.
- .4 General purpose adhesive: to CSA 0112 Series.
- .5 Nails, spikes and staples: to CSA B111.

- .6 Bolts: 12.5 mm diameter unless indicated otherwise, complete with nuts and washers.
- .7 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.
- .8 Joist hangers: minimum 1 mm thick sheet steel, galvanized ZF001 coating designation.
- .9 Roof sheathing H-Clips: formed "H" shape, thickness to suit panel material, type approved by Departmental Representative.

2.4 FASTENER FINISHES

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

2.5 WOOD PRESERVATIVE

- .1 Surface-applied wood preservative: clear or copper naphthenate or 5% pentachlorophenol solution, 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 all material as indicated as follows:
  - .1 Wood fascia, backing, curbs, nailers.
  - .2 Wood sleepers supporting wood subflooring over concrete slabs in contact with ground or fill.

### 3.2 INSTALLATION

- .1 Comply with requirements of NBC latest edition, Part 9 supplemented by following paragraphs.
- .2 Install members true to line, levels and elevations, square and plumb.
- .3 Construct continuous members from pieces of longest practical length.
- .4 Install spanning members with "crown-edge" up.
- .5 Select exposed framing for appearance. Install lumber and panel materials so that grade-marks and other defacing marks are concealed or are removed by sanding where materials are left exposed.
- .6 Install subflooring and combined subfloor and underlay with panel end-joints located on solid bearing, staggered at least 800 mm.
  - .1 In addition to mechanical fasteners, apply subflooring adhesive under panels installed on wood joints. Place continuous adhesive bead in accordance with manufacturer's instructions, single-bead on each joist and double-bead on joists where panel ends butt.

- .2 Use decking screws for mechanical fasteners when weather conditions are unsuitable for subflooring adhesive.
- .7 Install wall sheathing in accordance with manufacturer's printed instructions.
- .8 Install roof sheathing in accordance with requirements of NBC.
- .9 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.
- .10 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.
- .11 Install rough bucks, nailers and linings to rough openings as required to provide backing for frames and other work.
- .12 Install wood cants, fascia backing, nailers, curbs and other wood supports as required and secure using galvanized steel fasteners.
- .13 Install sleepers as indicated.
- .14 Use dust collectors and high quality respirator masks when cutting or sanding wood panels.

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 Use nailing disks for soft sheathing as recommended by sheathing manufacturer.

3.4 SCHEDULES

- .1 Roof sheathing:
  - .1 Plywood, DFP or CSP sheathing grade (SHG) T&G edge, 19 mm thick, unless otherwise indicated.
- .2 Exterior wall sheathing:
  - .1 Plywood, DFP or CSP sheathing grade or (SHG) grade, T&G edge, 19 mm thick, unless otherwise indicated.
  - .2 Expanded polystyrene sheathing, Type 1, RSI indicated, shiplapped edges, thickness as indicated.
- .3 Subflooring:
  - .1 Plywood, DFP or CSP sheathing grade (SHG) T&G edge, 19 mm thick, unless otherwise indicated.
- .4 Electrical equipment mounting boards:
  - .1 Plywood, DFP or CSP grade, (G1S) select square edge 16 mm thick, unless otherwise indicated.
- .5 Underlay:
  - .1 Plywood, DFP or CSP sheathing grade (Select), square edge 6 mm thick, unless otherwise indicated.