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**Part 1            General**

**1.1            RELATED SECTIONS**

- .1        Section 05 41 00 - Structural Metal Stud Framing.
- .2        Section 08 34 16 - Hangar Doors.

**1.2            REFERENCES**

- .1        Canadian General Standards Board (CGSB)
  - .1        CAN/CGSB-51.34-M86, Vapour Barrier, Polyethylene Sheet for Use in Building Construction.
- .2        Canadian Standards Association (CSA International)
  - .1        CSA A123.2-03(2008), Asphalt Coated Roofing Sheets.
  - .2        CSA B111-1974(R2003), Wire Nails, Spikes and Staples.
  - .3        CAN/CSA-G164-M92(R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.
  - .4        CSA O121-08, Douglas Fir Plywood.
  - .5        CSA O141-05(2009), Softwood Lumber.
  - .6        CSA O151-09, Canadian Softwood Plywood.
  - .7        CAN/CSA-O325.0-07(R2012), Construction Sheathing.
- .3        National Lumber Grades Authority (NLGA)
  - .1        Standard Grading Rules for Canadian Lumber 2010.

**1.3            SUBMITTALS**

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

**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        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.

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**Part 2            Products**

**2.1                FRAMING AND STRUCTURAL MATERIALS**

- .1      Lumber: unless specified otherwise, 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      Framing and board lumber: in accordance with NBC, except as follows:
- .3      Furring, blocking, nailing strips, grounds, rough bucks, cants, curbs, 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.

**2.2                PANEL MATERIALS**

- .1      Plywood, OSB and wood based composite panels: to CAN/CSA-O325.0.
- .2      Douglas fir plywood (DFP): to CSA O121, standard construction.
- .3      Canadian softwood plywood (CSP): to CSA O151, standard construction.
- .4      Glass fibre board sheathing: non-structural, rigid, faced, fiberglass, insulating exterior sheathing board.

**2.3                ACCESSORIES**

- .1      Polyethylene film: to CAN/CGSB-51.34, Type 1, 0.15 mm thick.
- .2      Roll roofing: to CSA A123.2, Type CF.
- .3      Air seal: closed cell polyurethane or polyethylene.
- .4      Sealants: in accordance with Section 07 92 10 - Joint Sealing.
  - .1          Maximum allowable VOC limit 250 g/L.
- .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.

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**2.4 FASTENER FINISHES**

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

**Part 3 Execution**

**3.1 INSTALLATION**

- .1 Comply with requirements of NBC 2010 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 Install furring and blocking as required to space-out and support 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 fascia backing, nailers, curbs and other wood supports as required and secure using galvanized fasteners.
- .9 Use dust collectors and high quality respirator masks when cutting or sanding wood panels.

**3.2 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.

**END OF SECTION**