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**Part 1            General**

**1.1            GENERAL SUMMARY**

- .1    Miscellaneous wood blocking, curbs and grounds.
- .2    All associated fasteners and hardware.

**1.2            REFERENCES**

- .1    ASTM C665-98, Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing.
- .2    CANPLY (Canadian Plywood Association) - Canadian Plywood Handbook.
- .3    CSA B111-1974 (R2003) - Wire Nails, Spikes and Staples.
- .4    CSA O141-05 - Softwood Lumber.
- .5    CSA O151-04 - Canadian Softwood Plywood.
- .6    National Lumber Grades Authority (NLGA) - Standard Grading Rules for Canadian Lumber 2005.
- .7    CAN/CSA-G164-M92, Hot Dip Galvanizing of Irregularly Shaped Articles.

**1.3            QUALITY ASSURANCE**

- .1    Lumber Products: Graded and stamped to NLGA requirements.
- .2    Plywood Products: Certified and graded to CANPLY requirements.

**1.4            DELIVERY, STORAGE, AND PROTECTION**

- .1    Protect materials from warping or other distortion by stacking in vertical position.

**Part 2           Products**

**2.1           MATERIALS**

- .1    Lumber: NLGA (Standard Grading Rules for Canadian Lumber).
  - .1    CSA O141, softwood SPF species, Grade 2. Dimension sizes indicated.
  - .2    19 percent maximum moisture content.
- .2    Furring, blocking, nailing strips, grounds. Rough bucks, fascia backing and sleepers.
  - .1    Board sizes: "Standard" or better grade.
  - .2    Dimensions sizes: "Standard" light framing of better grade.

- .3 Plywood: CSA O151 (CSP), CANPLY Grade SHG; sanded, exterior use, thicknesses as indicated.

## **2.2 BATT INSULATION**

- .1 Fibreglass Batt Thermal Insulation: to CAN/ULC-S702, Type 1.
  - .1 Thickness: Fill framing void or as indicated on Drawings.

## **2.3 FOAM SEALANT**

- .1 Expanding Foam Insulation and Sealant: CAN/ULC-S710.1, single component, low-expanding polyurethane foam.

## **2.4 ACCESSORIES**

- .1 Fasteners and Anchors:
  - .1 Fasteners: Hot dipped galvanized steel for high humidity and treated wood locations, unfinished steel elsewhere.
  - .2 Anchors: Toggle bolt type for anchorage to hollow masonry. Expansion shield and lag bolt type for anchorage to solid masonry or concrete. Bolt fastener for anchorages to steel.
- .2 Nails, spikes and staples: to CSA B111.

## **Part 3 Execution**

### **3.1 CONSTRUCTION**

- .1 Comply with requirements of NBC unless these specification or requirements shown on the drawings are more restrictive in which case the more restrictive requirements shall apply.
- .2 Prior to commencing work, field verify all existing conditions and dimensions and fabricate members as required to suit existing. Report discrepancies to the Departmental Representative.

### **3.2 OPENINGS**

- .1 Frame and block openings for support of window frames as indicated.

### **3.3 NAILING STRIPS, GROUNDS AND ROUGH BUCKS**

- .1 Install rough bucks, nailers and rough linings to openings as required to provide backing for frames and other work.

### **3.4 INSTALLATION OF BATT INSULATION**

- .1 Install insulation in accordance with ASTM C1320.

- .2 Place batts in cavities formed by framing members to produce a friction fit between edges of insulation and adjoining framing members.

### **3.5 INSTALLATION OF EXPANDING FOAM SEALANT**

- .1 Apply expanding foam to fill irregular voids and cracks and to interface with building envelope, and around doors, windows, louvres and other openings.
- .2 Apply expanding foam in accordance with CAN/ULC S710.2 and the manufacturer's written instructions.
- .3 Apply foam to underside of roof drains and adjacent roof deck.
- .4 Finished surface of foam to be free of voids and imbedded foreign objects. Maintain cured skin.

END OF SECTION

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**Part 1 General**

**1.1 GENERAL SUMMARY**

- .1 Exterior gypsum sheathing for walls.

**1.2 RELATED SECTIONS**

- .1 Section 05 41 00 - Structural Metal Lightweight Framing.
- .2 Section 09 21 16 - Gypsum Board Assemblies.

**1.3 REFERENCES**

- .1 ASTM C754-00 - Installation of Steel Framing Members to Receive Screw-Attached Gypsum Board.
- .2 ASTM C1002-01 - Steel Self-Piercing, Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs.
- .3 ASTM C1177 / C1177M-08 - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing.

**1.4 SUBMITTALS FOR REVIEW**

- .1 Submit in accordance with Section 01 33 00.
- .2 Product Data: Provide product data and MSDS on gypsum sheathing.

**1.5 QUALITY ASSURANCE**

- .1 Applicator Qualifications: Company specializing in performing the work of this section with minimum three years documented experience.

**Part 2 Products**

**2.1 GYPSUM SHEATHING**

- .1 Water-Resistant Exterior Glass Mat Gypsum Sheathing: to ASTM C1177M:
  - .1 Thickness and Size: 16 mm minimum, maximum available length in place; ends square cut, edges square.
  - .2 Fire Resistance Rating: Type X as defined in ASTM C1396 and ASTM C1177 when tested in accordance with CAN/ULC S101.
  - .3 Acceptable Products: CGC Securock, GP DensGlass Gold, Temple-Inland GreenGlass.

**2.2 FRAMING MATERIALS**

- .1 Metal Framing and Accessories: Specified in Section 05 41 00.

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**2.3 ACCESSORIES**

- .1 Fasteners: ASTM C1002, Type S12 screws, wafer-head design, with strip-out-prevention ribs and self-drilling points; screw heads minimum 10 mm diameter; coated for corrosion resistance.

**Part 3 Execution**

**3.1 EXAMINATION**

- .1 Verify that site conditions are ready to receive work.

**3.2 SHEATHING INSTALLATION**

- .1 Install components in accordance with ASTM C754 and manufacturer's written instructions.
- .2 Coordinate location of openings and through-wall components with other work.
- .3 Coordinate placement of control joints with locations of two-piece telescoping track in stud framing.
- .4 Erect gypsum sheathing, with edges butted tight and ends occurring over firm bearing.
- .5 Use screws when fastening gypsum board to furring or framing.
- .6 Treat cut edges and holes in sheathing with sealant.
- .7 Place sealable exterior control joints consistent with lines of building spaces to maximum spacing of 10 m (30 feet) or as indicated on drawings. Form joint with back to back casing beads spaced apart to form a flexible sealant joint.

**3.3 TOLERANCES**

- .1 Maximum Variation of Gypsum Sheathing Surface from True Flatness: 6 mm in 3 m in any direction.

END OF SECTION