

1 General

1.1 RELATED REQUIREMENTS

- .1 Section 03 30 00 - Cast-in-Place Concrete.
- .2 Section 06 08 99 - Rough Carpentry for Minor Works.
- .3 Section 07 21 16 - Blanket Insulation.
- .4 Section 07 62 00 - Sheet Metal Flashing & Trim.
- .5 Section 31 23 33.01 - Excavation, Trenching and Backfilling.

1.2 REFERENCES

- .1 American Society for Testing and Materials International, (ASTM).
 - .1 ASTM E96-00e1, Test Methods for Water Vapor Transmission of Materials.
 - .2 ASTM C208-95, Specification for Cellulosic Fiber Insulating Board.
 - .3 ASTM C591-01, Specification for Unfaced Preformed Rigid Cellular Polyisocyanurate Thermal Insulation.
 - .4 ASTM C612-00a, Specification for Mineral Fiber Block and Board Thermal Insulation.
 - .5 ASTM C165, Standard Test Method for Measuring Compressive Properties of Thermal Insulations.
 - .6 ASTM C665, Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing.
 - .7 ASTM C728-97e1, Specification for Perlite Thermal Insulation Board.
 - .8 ASTM C1126-00, Specification for Faced or Unfaced Rigid Cellular Phenolic Thermal Insulation.
 - .9 ASTM C1289-02, Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board.
 - .10 ASTM C1338, Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings.
- .2 Canadian General Standards Board (CGSB).
 - .1 CGSB 71-GP-24M-77(R1983), Adhesive, Flexible, for Bonding Cellular Polystyrene Insulation.
- .3 Underwriters Laboratories of Canada (ULC).
 - .1 CAN/ULC-S102, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.
 - .2 CAN/ULC-S604-91, Type A Chimneys.
 - .3 CAN/ULC-S701-01, Thermal Insulation, Polystyrene, Boards and Pipe Coverings.
 - .4 CAN/ULC-S702, Standard for Thermal Insulation Mineral Fibre for Buildings.
 - .5 CAN/ULC-S704-01, Thermal Insulation Polyurethane and Polyisocyanurate, Boards, Faced.

1.3 WASTE MANAGEMENT AND DISPOSAL

- .1 Collect and separate for disposal waste material generated by this Section.
- .2 Place in appropriate on-site bins in accordance with Waste Management Plan.

2 Products

2.1 CONCRETE FACED FOUNDATION INSULATION

- .1 Polystyrene: to CAN/ULC-S701, Type 4, thickness 50 mm.
 - .2 Concrete topping: latex modified concrete, 8 mm thick, smooth surface, colour grey.
 - .3 Size: 600 mm x 1200 mm, tongue and groove on 1200 mm edges and butt edge on 600
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mm side.

- .4 Attachment clips: Specially designed galvanized steel mounting clips for wall attachment with corrosion proof masonry fasteners.

2.2 FOUNDATION / SLAB

- .1 76mm prefinished aluminum drip edge
- .2 Type: 4.
- .3 Thickness: 76mm.
- .4 Size: 600 mm x 1200 mm
- .5 Edges: shiplapped.

2.3 ACCESSORIES

- .1 Mechanical fasteners in accordance with insulation manufacturer's written recommendations.
- .2 Insulation clips: in accordance with curtain wall manufacturer's written recommendations.
- .3 Adhesive: All purpose construction adhesive in accordance with insulation manufacturer's written recommendations.

3 Execution

3.1 EXAMINATION

- .1 Examine substrates and immediately inform Departmental Representative in writing of defects.
- .2 Prior to commencement of work ensure: substrates are firm, straight, smooth, dry, free of snow, ice or frost, and clean of dust and debris.

3.2 MANUFACTURER'S INSTRUCTIONS

- .1 Comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

3.3 WORKMANSHIP

- .1 Install insulation after building substrate materials are dry.
- .2 Install insulation to maintain continuity of thermal protection to building elements & spaces.
- .3 Fit insulation tight around electrical boxes, plumbing and heating pipes and ducts, around exterior doors and windows and other protrusions.
- .4 Keep insulation minimum 75 mm from heat emitting devices such as recessed light fixtures, and minimum 50 mm from sidewalls of CAN4-S604 type A chimneys.
- .5 Cut and trim insulation neatly to fit spaces. Butt joints tightly, offset vertical joints. Use only insulation boards free from chipped or broken edges. Use largest possible dimensions to reduce number of joints.
- .6 Offset both vertical and horizontal joints in multiple layer applications.
- .7 Do not enclose insulation until it has been inspected and approved by Departmental Representative.

3.4 PERIMETER CONCRETE FACED FOUNDATION INSULATION

- .1 Exterior vertical application: Extend boards on exterior face of perimeter foundation wall to the dimensions indicated on the drawings. Foundation perimeter is to be excavated in a staggered fashion so as to not compromise the structural integrity of the building. Maximum length of open excavated sections is to be 3000 mm provided there is 3000 mm of unexcavated sections provided on both sides.

3.5 CLEANING

- .1 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

END OF SECTION