2.1 MATERIALS

.1 Perimeter Foundation Insulation: Extruded polystyrene foam insulation to CAN/ULC-S701, Type 4, rigid, closed cell type, with integral high density skin, and vertical grooves designed to channel water down to the footing weep tile drains.
  .1 Thermal Resistance: Long term aged RSI value of 0.87/25 mm, to ASTM C518.
  .2 Board Size: [610 x 2440 mm, [53] [63] mm thick] [as indicated on Drawings].
  .3 Compressive Strength: to ASTM D1621, minimum 210 kPa.
  .4 Water Absorption: to ASTM D2842, 0.7% by volume maximum.
  .5 Edges: Shiplapped.
  .6 Drainage Capacity: >0.72 m³/hr/m, CCMC Class A, Type 2.
  .7 Water Vapour Permeance: to ASTM E96, 50 ng/Pas m² max.
  .8 Manufacturer and Product Name: STYROFOAM™ Brand SM Extruded Polystyrene Foam Insulation, Dow Chemical Canada, ULC

[OR]

.1 Perimeter Foundation Insulation: Extruded polystyrene foam insulation to CAN/ULC-S701, Type 4, rigid, closed cell type, with integral high density skin, c/w integral 9 mm thick latex-modified concrete facing.
  .1 Thermal Resistance: Long term aged RSI value of 0.87/25 mm, to ASTM C518.
  .2 Board Size: [610 x 1220 mm, 50 mm thick] [as indicated on Drawings].
  .3 Compressive Strength: to ASTM D1621, minimum 210 kPa.
  .4 Water Absorption: to ASTM D2842, 0.7% by volume maximum.
  .5 Edges: Tongue and groove sides, square edge ends.
  .6 Water Vapour Permeance: to ASTM E96, 50 ng/Pas m².
  .7 Manufacturer and Product Name: STYROFOAM™ Brand Extruded Polystyrene Foam Insulation, Dow Chemical Canada, ULC

.2 [Below-Grade] [Below-Slab] [Perimeter Foundation] Insulation: Extruded polystyrene foam insulation to CAN/ULC-S701, Type 4, rigid, closed cell type, with integral high density skin.
  .1 Thermal Resistance: Long term aged RSI value of 0.87/25 mm, to ASTM C518.
  .2 Board Size: [600 x 1220 mm, 50 mm thick] [as indicated on Drawings].
  .3 Compressive Strength: to ASTM D1621, minimum 210 kPa.
  .4 Water Absorption: to ASTM D2842, 0.7% by volume maximum.
  .5 Edges: [Square] [Shiplapped].
  .6 Water Vapour Permeance: to ASTM E96, 50 ng/Pas m².
  .7 Manufacturer and Product Name: STYROFOAM™ Brand Extruded Polystyrene Foam Insulation, Dow Chemical Canada, ULC
3 Adhesive: To CGSB 71-GP-24M, Type 1.

SPEC NOTE: Use the following two paragraphs when specifying concrete faced products.

.4 Metal Cap Flashing: 0.61 mm thick galvanized steel J-channel; 57 mm wide, 100 mm long leg and 57 mm short leg; prefinished in colour selected by Consultant.

.5 Clips and Fasteners: corrosion-resistant type, sized to suit application; as supplied by insulation manufacturer.

3 Execution

3.1 EXAMINATION

.1 Verify that the insulation boards and adjacent materials are compatible.

.2 Verify that substrate is flat, sound, clean, and free of oil, grease, [objectionable air surface voids], [fins], [irregularities], [materials or substances that may impede adhesive bond].

3.2 PERIMETER INSULATION

.1 Apply adhesive in continuous 6 mm beads in a grid pattern to prevent potential air movement behind the insulation boards. Apply adhesive fully around protrusions.

SPEC NOTE: Ensure extent of perimeter foundation insulation is indicated on drawings. Use the following paragraph to specify exterior or interior applications.

.2 Install boards on [exterior] [interior] face of foundation [wall] [grade beam] perimeter, [vertically] [horizontally]. Extend boards [minimum 600 mm [vertically from bottom of finish floor slab] [below finish grade] [to top of footing].

.3 Place boards in a method to maximize contact with bedding. Stagger side and end joints. Butt edges and ends tight to adjacent boards.

.4 Extend boards across control and expansion joints, unbonded to foundation 75 mm on one side of joint.

.5 Cut and fit insulation tight to protrusions or interruptions to insulation plane.

SPEC NOTE: Use the following two paragraphs when installing concrete-faced insulation.

.6 Layout concrete-faced insulation boards to maximize board sizes. Do not use boards less than 150 mm wide.

.7 Install concrete-faced insulation board system [horizontally] [vertically], complete with fastening clips and cap flashing in accordance with manufacturer’s installation guidelines.

3.3 BELOW-SLAB INSULATION

.1 Place insulation under slabs on grade after base for slab is complete. Lay boards on [level] compacted fill.
.2 Extended boards [under entire area of slabs] [minimum 600 mm in from perimeter foundation wall].

.3 Cut and fit insulation tight to protrusions or interruptions to insulation plane.

.4 Prevent insulation from being displaced or damaged while [placing vapour retarder and] placing slab.

END OF SHORT FORM