

PART 1 - GENERAL

1.1 Related Sections

- .1 Section 04 00 00 - Masonry
- .2 Section 07 27 10 - Air/Vapour Barrier
- .3 Section 07 42 13 - Metal Wall Panels
- .4 Section 07 55 00 - Modified Bituminous Roofing
- .5 Section 08 44 13 - Aluminum Curtain Wall

PART 2 - PRODUCTS

2.1 Insulation

- .1 Perimeter and Below Grade Insulation: extruded polystyrene to CAN/ULC S701 Type 4, thickness to provide RSI indicated.
 - .1 Acceptable Material: Styrofoam SM or approved equal.
 - .2 Adhesive: 230-21 Insulation Adhesive by Henry Baker.
 - .3 Primer: as recommended by adhesive manufacturer.
- .2 Spray polyurethane foam: Walltite Eco v2 by BASF to CAN/ULC S705.1 thickness to provide long term RSI indicated on drawings.
 - .1 Primer: as required by CAN/ULC S705.2, Annex A and to suit environmental conditions at time of application.
- .3 Batt and blanket mineral fibre: to ASTM C665, Type 1, thickness to provide RSI indicated.
 - .1 Acceptable material: Comfortbatt by Roxul.
- .4 Board insulation: Rockboard 40 by Roxul, non-combustible, semi-rigid, mineral wool insulation board to ASTM C612, thickness to achieve RSI value indicated.
 - .1 Adhesive: all-purpose construction adhesive in accordance with insulation manufacturer's written recommendations.
- .5 Metal Wall Panel insulation: specified in Section 07 42 13.
- .6 Roof insulation: specified in Section 07 52 16.
- .7 Insulation at curtain wall assembly: spray polyurethane foam and specified in Section 08 44 13

PART 3 - EXECUTION

3.1 Spray Polyurethane Foam Insulation Installation

- .1 Install materials in accordance with CAN/ULC S705.2 and manufacturer's instructions.

- .2 Ensure all masonry anchors, flashings and transition membranes, fixture extensions are in place prior to commencing installation.
 - .3 Mask surrounding areas to prevent overspray damage to surrounding materials.
 - .4 Install insulation to maintain continuity of thermal protection to building elements and spaces.
 - .5 Install maximum 50mm thickness on first pass and allow minimum 10 minutes for cooling before applying second pass.
 - .6 Keep insulation minimum 75mm from heat emitting devices.
 - .7 Schedule:
 - .1 Cavity wall insulation in all exterior walls.
 - .2 Curtain wall to concrete where indicated .
 - .3 Interior steel where indicated.
 - .4 In other locations as noted on the drawings.
- 3.2 Perimeter and Below Grade Wall Insulation Installation
- .1 Install Type 4 extruded polystyrene, minimum compressive strength 210 kPa. Minimum R-value as noted on the drawings.
 - .2 Extend boards as indicated. Butt boards together without gaps.
 - .3 At building perimeter extend boards down walls or under slab as indicated.
 - .1 Use adhesive to manufacturer's recommendation for vertical application.
- 3.3 Board Insulation Installation
- .1 Install insulation board using all-purpose construction adhesive in accordance with insulation manufacturer's written recommendations.
- 3.4 Batt Insulation Installation
- .1 Install batt insulation in voids, gaps and where indicated to maintain continuity of thermal protection to building elements and spaces.
 - .2 Fit insulation closely around electrical boxes, pipes, ducts, frames and other objects in or passing through insulation.
 - .3 Do not compress insulation to fit into spaces.

END OF SECTION 07 21 00