

PART 1 GENERAL

1.1 REFERENCE

- .1 Comply with the General Conditions of the Contract, Supplementary General Conditions and the requirements of Division 1.

1.2 RELATED WORK SPECIFIED ELSEWHERE

- .1 Cast in Place Concrete Section 03300
- .2 Unit Masonry Section 04200
- .3 Rough Carpentry Section 06100
- .4 EPDM Membrane Roofing Section 07530
- .5 Sloped Roof System Section 07410

1.3 SCOPE OF WORK INCLUDED

- .1 All thermal insulation, vapour barrier and work throughout the entire Work not specified under other Sections is included in the Work of this Section, to provide a complete thermal and vapour seal within the building.

1.4 REQUIREMENTS OF AUTHORITIES

- .1 Enclose combustible insulation as per MBC except where specified as work of other Section

1.5 DELIVERY AND STORAGE

- .1 Store packaged materials in their original wrappings or containers with manufacturer's labels and seals intact. Store flammable materials outside the building and protect from all weather hazards, contact with earth and open flame. Abide by all fire protection regulations imposed by the authorities having jurisdiction, and take precautionary measures to avoid fire.

PART 2 PRODUCTS

2.1 MATERIALS

- .1 **Vapour Barrier Ceiling:** Polyethylene film - minimum 6 mil, unless noted otherwise, to CAN2-51.33-m77 Type 1; caulking at all lapped joints.

- .2 **Vapour Barrier Under slab:** Polyethylene film - minimum 10 mil, unless noted otherwise, to CAN2-51.33-m77 Type 1; caulking at all lapped joints.
- .3 **Mineral Glass Fibre:** blanket, friction fit batt type in accordance with requirements of CSA A1010-M77, Type A. 6 " thickness - R15.
- .4 **Cavity Wall Insulation :** Extruded polystyrene Insulation conforming to CAN/ULC S701-05, Type 3 with an RSI of 0.98 per 25mm and a compressive strength of 170 kPa such as CAVITYMATE Ultra or equal. Minimum thickness of 91mm (RSI-3.52)
- .5 **Roof Insulation :** Extruded polystyrene Insulation conforming to CAN/ULC S701-05, Type 2 with a R value of 5 per inch. Such as DECKMATE by Dow Chemical Canada ULC or equal. Minimum thickness of 4" (102mm) and board size of 2'0" x 8'0".
- .6 **Insulation Adhesive :** Insulation adhesive for polystyrene shall be Bakor 230-21 Insulation adhesive as manufactured by Henry Company Canada or approved equal.
- .7 **Acoustic Insulation :** Supplied and installed under Section 09250 2.1.16
- .8 **Accessories :** clips, nails, washers, staples and sealants as required.

PART 3 EXECUTION

3.1 PREPARATION

- .1 Ensure that all surfaces to receive adhesive or insulation are dry, firm, straight, slightly textured for bond, and free from loose material, projections, ice, frost, slick, grease, oil or other matter detrimental to bond of the adhesive or uniform bedding of the insulation.
- .2 Maintain surface and ambient temperature between 10 - 38 deg C. during application and curing.
- .3 Report unacceptable surfaces to Consultant.

3.2 INSTALLATION - GENERAL

- .1 Install insulation to thicknesses as shown on the drawings.
- .2 Install as per manufacturer's instructions unless otherwise specified herein.
- .3 If required, Vapour Barrier is to be located on the warm-in-winter side of the insulation.
- .4 Ensure a uniform, continuous thermal and vapour barrier effect. Where insulation and vapour barriers are to be provided under other Sections, coordinate the Work such that thermal and vapour barrier continuity is achieved.
- .5 Where sheet Insulation is to be installed, lap all joints, ends, etc., 6" minimum.

3.3 INSTALLATION - CAVITY WALL

- .1 Apply cavity wall insulation after air vapour barrier, Section 07190, is installed.
- .2 Apply cavity wall insulation to thicknesses as shown on drawings to the outer face of the interior wythe of masonry. Insulation shall fit tightly between spacing of ties. All butt joints shall be brought into moderately tight contact. Any cutting or fabricating shall be made of the largest possible module to reduce the number of joints.
- .3 Apply adhesive to the entire surface of the substrate using notched trowels of the type recommended by the adhesive manufacturer.

END OF SECTION