



Unit Masonry Assembly Cavity Insulation

STYROFOAM™ Brand CAVITYMATE™ /CAVITYMATE™ Ultra Extruded Polystyrene Foam Insulation

PART 1 – GENERAL

SPEC NOTE: Following are suggested specification paragraphs to be used when specifying rigid board insulation as part of a unit masonry assembly under Section 04800. Insert the required paragraphs into the Section under the noted Articles, and make any required selections, such as board size, thickness, etc. Where selection is indicated with an [OR] statement, select the appropriate paragraph and delete the inappropriate statement. Delete all SPEC NOTE and [OR] statements prior to final printing.

DISCLAIMER: The insulation manufacturer has reviewed the product information contained in this short form specification and is responsible for its accuracy. The information is organized and presented to assist the specification writer working on a construction project to select the appropriate products and to save time in writing the project specification Section. The specification writer is responsible for product selection as well as the use and application of this information, and should contact the manufacturer to ensure that all options are available and that the associated specification information is valid and correct.

2.1 MATERIALS

A. Cavity Wall Insulation: Extruded polystyrene foam insulation to CAN/ULC-S701, Type 3, rigid, closed cell type, with integral high density skins.

1. Thermal Resistance: Long term aged RSI value of 0.87/25mm.
2. Board Size: 400 X 2440 mm [600 x 2440 mm] [25] [40] [50] [61] [75] mm thick.
SPEC NOTE: 400 mm wide product is available in 25 mm, 40 mm, 55 mm, 61 mm and 75 mm thickness.
The 600 mm wide product is available in 50 mm and 75 mm thickness.

3. Compressive Strength: Minimum 170 kPa.
4. Water Absorption: to ASTM D2842, 0.7% by volume maximum.

SPEC NOTE: The 400 mm wide product is available with square edges, and the 600 mm wide product is available with shiplapped edges.

5. Edges: [Square] [Shiplapped].
6. Water Vapour Permeance: to ASTM E96, 90 ng/Pas m2.
7. Manufacturer and Product Name: STYROFOAM™ Brand CAVITYMATE™ Extruded Polystyrene Foam Insulation, Dow Chemical Canada ULC

[OR]

1. Cavity Wall Insulation: Extruded polystyrene foam insulation to CAN/ULC-S701, Type 3, rigid, closed cell type, with integral high density skins.
 - a. Thermal Resistance: Long term aged RSI value of 0.97/25mm.
SPEC NOTE: 400 mm wide product is available in 40 mm, 55 mm, 68 mm and 91 mm thickness. The 600 mm wide product is available only in 55 mm and 68 mm thickness.
2. Board Size: [400 x 2440 mm] [600 x 2440 mm], [40] [55] [68] [91] mm thick.
3. Compressive Strength: Minimum 170 kPa.
4. Water Absorption: to ASTM D2842, 0.7% by volume maximum.
SPEC NOTE: The 400 mm wide product is available with square edges, and the 600 mm wide product is available with shiplapped edges.
5. Edges: [Square] [Shiplapped].
6. Water Vapour Permeance: to ASTM E96, 90 ng/Pas m² per 25.4 mm thickness.
7. Manufacturer and Product Name: STYROFOAM™ Brand CAVITYMATE™ Ultra Extruded Polystyrene Foam Insulation, Dow Chemical Canada ULC.

- B. Mechanical Fasteners: [Purpose-made plastic, friction-fit type designed to hold the insulation in place as part of the masonry wall tie system].

[OR]

- B. Adhesive: To CGSB 71-GP-24M, Type 1

3.0 EXECUTION

3.1 EXAMINATION

1. Verify that the insulation boards and adjacent materials are compatible.
2. Verify insulation boards are in proper widths to fit between wall ties.
3. Verify that substrate is flat, sound, clean, and free of oil, grease, [objectionable are surface voids], [fins], [irregularities], [materials or substances that may impede adhesive bond].

3.2 INSTALLATION – INSULATION

1. Install insulation boards [over air/vapour barrier membrane] [to exterior surface of inner wythe] starting at base of wall, horizontally between wall ties.
2. Place boards in a method to maximize contact with bedding. Stagger end joints. Butt edges and ends tight to adjacent boards and to protrusions.
3. Fit insulation boards neatly around wall ties.
4. [Apply continuous 6 mm beads of adhesive in a grid pattern to prevent potential air movement behind the insulation boards. Apply adhesive fully around protrusions.]

[OR]

4. [Place friction-fit fasteners against insulation board surface to securely hold boards in place.]
5. Extend boards across control or expansion joints, unbonded to substrate 75 mm on one side of joint.
6. Replace damaged insulation boards.

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