

SPECIFYING CAVITY WALL INSULATION

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The Dow Chemical Company

Short Form Guide Specification – Cavity Wall Insulation

STYROFOAM™ Brand CAVITYMATE™ Plus Extruded Polystyrene Foam Insulation

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification Sections, apply to this Section.

1.02 SUBMITTALS

- A. Manufacturer's product literature, including specified physical properties.
- B. Installation instructions.
- C. Certification that product complies with specification requirements and is suitable for the use indicated.
- D. Manufacturer's Thermal Performance Warranty.

1.03 QUALITY ASSURANCE

- A. Cavity Wall Insulation shall not be produced with, or contain, any of the United States EPA regulated CFC compounds listed in the Montreal Protocol of the United Nations Environmental Program.

1.04 PRODUCT HANDLING

- A. Protect insulation from physical damage.
- B. Comply with manufacturer's recommendations for handling, storage and protection.
- C. Handle boards carefully so corners are not broken off or boards otherwise damaged.

1.05 WARRANTY

- A. Provide written warranty that the actual thermal resistance of the extruded polystyrene foam insulation will not vary by more than 10% from its published thermal resistance.

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B. Warranty period is 15 years after date insulation is purchased.

PART 2 - PRODUCTS

2.01 INSULATION

A. Material Properties:

1. Rigid closed-cell extruded polystyrene thermal board insulation.
2. Comply with ASTM C 578-95, Type X, density 1.35 lb/cu. ft. min., compressive strength 15 psi (ASTM D 1621-94)
3. Thermal resistance: 5-year aged R-values of 5.4 and 5.0 min. °F-ft²-h/Btu²/inch at 40°F and 75°F respectively (ASTM C 518-91).
4. Water absorption: Max. 0.1% by volume (ASTM C 272-91(96)).
5. Surface Burning Characteristics:
 - a. Flame Spread: 5.
 - b. Smoke Developed: 165.

***Select appropriate board. thickness below:

B. Thickness: 1" (R-5).

or

B. Thickness: 1-1/2" (R-7.5).

or

B. Thickness: 2" (R-10).

C. Acceptable manufacturer's product: The Dow Chemical Company
STYROFOAM™ Brand CAVITYMATE™ Plus Extruded Polystyrene Foam
Insulation.

2.02 ADHESIVE

A. Adhesive: type recommended by insulation manufacturer.

B. Acceptable manufacturer's products:

1. ChemRex, Inc. "Contech Brands PL300 Foam Board Adhesive".
2. ChemRex, Inc. "Contech Brands Premium Foam Based Adhesive".
3. Dacar Products, Inc. "Foamgrab PS".

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PART 3 - EXECUTION

3.01 INSPECTION AND PREPARATION

- A. Verify that masonry joints are struck flush and that other conditions are satisfactory for proper installation.
- B. Remove concrete fins and mortar projections that interfere with placement of insulation boards.

3.02 INSTALLATION

- A. Apply 2 diameter daubs of adhesive spaced approximately 12" o.c. both ways on inside face of insulation board.
- B. Butter all edges of insulation board with adhesive to provide continuous vapor barrier.
- C. Fit insulation between wall ties and other obstructions with joints staggered and edges butted tightly.
 - 1. Press units firmly against inside wythe of masonry or other construction.
 - 2. Wedge insulation from outside wythe of construction with small fragments of masonry materials spaced 24" o.c. both ways.
 - 3. Make insulation continuous. Fill all voids.

3.03 CLEAN-UP

- A. Remove and dispose of excess insulation, wrappings and other waste materials.

END OF SHORT FORM