

Guide Specifications

**SPECIFYING
PERIMETER FOUNDATION
INSULATION**

07212
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SECTION 07212
PERIMETER FOUNDATION 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. Insulation 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. Perimeter Foundation 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 insulation will not vary by more than 10% from its published thermal resistance.
- 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.

*** select appropriate Subparagraph 2. below. Type VI has slightly lower vapor transmittance, compresses less, and is often used to eliminate job-site mixing with the Type VI roof insulation***

2. Comply with ASTM C 578-92, Type IV, density 1.6 lb/cu. ft. min., compressive strength 25 psi (ASTM D 1621-73)

or

2. Comply with ASTM C 578-92, Type VI, density 1.8 lb/cu. ft. min., compressive strength 40 psi (ASTM D 1621-73).
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. 0.3% by volume (ASTM C 272-91).

B. Thickness: 2" unless otherwise indicated.

*** coordinate C below with A.2. above; delete when trade names not permitted***

- C. Acceptable manufacturer's product: Dow Chemical Company "STYROFOAM ® Brand Square Edge (SE)" material.

or

- C. Acceptable manufacturer's product: Dow Chemical Company "STYROFOAM ® 40 Brand High Load (HI-40)" material.

2.02 ADHESIVE

A. Adhesive: type recommended by insulation manufacturer.

B. Acceptable manufacturer's products:

1. ChemRex, Inc. "Contech Brand PL300 Foam Board Adhesive".
2. Dakar Products, Inc. "Foamgrab PS".

PART 3 - EXECUTION

3.01 SURFACE CONDITIONS

A. Verify that all 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

*** delete inappropriate word in A.1. below, and parenthesis***

A. Vertical Insulation:

1. Apply insulation boards to (inside) (outside) face of exterior foundation walls except where otherwise indicated.
2. Extend insulation at least 24" down from immediately under floor slabs-on-grade.
3. Adhere insulation to wall by applying 2" diameter spots of adhesive to insulation boards 16" o.c. both ways.

B. Horizontal Insulation:

1. Apply insulation boards under and in contact with floor slab-on-grade where vertical perimeter insulation is not feasible and elsewhere as indicated.
2. Extend insulation 24" in from exterior wall unless otherwise indicated.
3. Install insulation so it is firmly supported with edges in moderate contact.

- #### C. Cut insulation to fit snugly around pilasters, projections, curves and irregularities on the wall surface. Fill voids with insulation.

3.03 CLEAN UP

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

END OF SECTION 07212

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