

SECTION 072100

BUILDING INSULATION

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Rigid Foam Insulation
- B. Batt Thermal Insulation in the Attic and Exterior Walls
- C. Poly Iso Insulation – See Section 075323: Single Membrane Roofing
- D. Acoustic Insulation - See Section 092900.

1.2 SYSTEM DESCRIPTION

- A. System performance to provide continuity of thermal and vapor barrier at building enclosure elements in conjunction with vapor and air barrier materials in Section 071900.

1.3 ENVIRONMENTAL REQUIREMENTS

- A. Install insulation adhesives in accordance with manufacturer's instructions.

PART 2 PRODUCTS

2.1 INSULATION MATERIALS

- A. Extruded Polystyrene Rigid Foam Insulation, Exterior Walls: ASTM C578 Type V, Equal to Foamular 250 manufactured by Owens Corning Foam Insulation, LLC, conforming to the following:

Thermal Resistance	R of 5.0 /inch
Thickness	2 inches or as noted
Compressive Strength Minimum	25 psi
Water Vapor Permeance	1.1 perm @ 1 inch
Edges	Square

- B. Batt Insulation, Attic:ASTM C665; preformed glass fiber batt, friction fit; manufactured by Owens-Corning Fiberglass Corp., or Certainteed, conforming to the following:

Thermal Resistance	R-49
Thickness	15 inches
Facing	Kraft Paper

2.2 ADHESIVES

- A. Adhesive: Type recommended by insulation manufacturer for application.

2.3 ACCESSORIES

- A. Vapor and Air Barrier: As specified in Section 07190.
- B. Tape: As recommended by the insulation manufacturer.

- C. XPS Insulation Tape : Joint SealR Foam Joint
- D. Insulation Fasteners: As recommended by the insulation manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that substrate, adjacent materials, and insulation boards are dry and ready to receive insulation, and adhesive.

3.2 INSTALLATION – FOUNDATION PERIMETER – BOARD INSULATION

- A. Adhere a strip of polyethylene sheet over substrate joints with beads of adhesive. Tape seal joints.
- B. Apply same adhesive and install boards on foundation perimeter. Stagger joints. Butt edges and ends tight to adjacent board and to protrusions.

3.3 INSTALLATION - BATT INSULATION

- A. Install insulation in accordance with insulation manufacturer's instructions.
- B. Install in exterior walls, and attic spaces without gaps or voids.
- C. Fit insulation tight in spaces. Leave no gaps or voids.
- D. Exterior Wall, Attic: Install friction fit insulation tight to framing members, completely filling prepared spaces.
- E. Retain insulation in place with wood strapping.
- F. Coordinate vapor and air barrier seal with Section 071900.

END OF SECTION