

# MEPNN Supplier Scouting Opportunity Synopsis

## Section 1: General Information

Scouting Number	2025-132
Item to be Scouted	Thermal Insulation
Days to be scouted	21
Response Due By	05/21/2025
Description	Sill Sealer and Expanded Polystyrene (EPS) Foam
State item to be used in	New Mexico

## Section 2: Technical Information

Type of supplier being sought	Contract manufacturer
Reason	BABA
Describe the manufacturing processes (elaborate to provide as much detail as possible)	<p>Prefabricated components processing materials into sheets or rolls.</p> <p>Sill Sealer: includes but is not limited to foam preparation and adhesive application. Described in the specification. The location is called out per specification paragraph 3.02.A, under metal stud plates resting on concrete slabs.</p> <p>Expanded Polystyrene (EPS) Foam: includes but is not limited to styrene monomer production, EPS bead preparation, heat treating, aging, molding and shaping, and cutting and finishing.</p>
Provide dimensions / size / tolerances / performance specifications for the item	<p>See attached PDF specification for information.</p> <p>Sill Sealer: For additional information, see page 2, 2.01 Sill Sealer</p> <p>Expanded Polystyrene (EPS) Foam : ASTM C578, type IX and ASTM E84. For additional information, see page 3, 2.05 Rigid Insulation. for the expanded polystyrene (EPS), see one image below (Expanded Polystyrene_(EPS).pdf). EPS is highlighted in yellow.</p>
List required materials needed to make the product, including materials of product components	See attached PDF specification for information.
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Are there any other standards, requirements, etc.?	Yes
Details	
Additional Technical Comments	N/A

## Section 4: Business Information

Estimated potential business volume	One time order of: 1 unit - Sill sealer 1 unit - Expanded Polystyrene (EPS) Foam
Estimated target price / unit cost information (if unavailable explain)	Sill sealer: \$1,000. Expanded Polystyrene (EPS) Foam - \$60,000.

When is it needed by?	Project dependent over next 8 years. Unable to be more specific but there are funding and scheduling factors related to phasing of the project. This project includes multiple counties and cities with various connection points (sites). As procurement proceeds partial or entire packages may be released for construction.
Describe packaging requirements	Per manufacturer requirements. Assume palletized or boxed products.
Where will this item be shipped?	Clovis, NM

Additional Comments

Is there other information you would like to include?	
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**SECTION 07 21 00**  
**THERMAL INSULATION**

**PART 1      GENERAL**

**1.01      REFERENCES**

A.    The following is a list of standards which may be referenced in this section:

1.    ASTM International (ASTM):
  - a.    C578, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
  - b.    C1029, Spray Applied rigid cellular polyurethane Thermal Insulation.
  - c.    D4397, Standard Specification for Polyethylene Sheeting for Construction, Industrial, and Agricultural Applications.
  - d.    E84, Standard Test Method for Surface Burning Characteristics of Building Materials.
  - e.    E1745, Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs.

**1.02      BUILD AMERICA BUY AMERICA (BABA)**

A.    This section contains materials that shall comply with the Build America Buy America requirements of this contract.

**1.03      SUBMITTALS**

A.    Action Submittals:

1.    Product Data: Manufacturer's product literature identifying products proposed for use.

B.    Informational Submittals: Certificate of compliance with Build America, Buy America Act. Refer to Section 01 33 00, Submittal Procedures.

**1.04      DELIVERY, STORAGE, AND HANDLING**

A.    On packaging clearly identify manufacturer, contents, brand name, applicable standard, and R-value.

B.    Store materials off ground and keep them dry. Protect against weather, condensation, and damage.

## **PART 2      PRODUCTS**

### **2.01      SILL SEALER**

- A. Polyethylene Foam:
  - 1. Size: 3-1/2 inches wide.
  - 2. Manufacturers and Products:
    - a. Owens Corning, ComfortSeal sill gasket.
    - b. DuPont, Styrofoam Brand Sill Seal.
    - c. Shelter Enterprises, Inc. (SEI), ShelterSeal Sill Sealer.

### **2.02      VAPOR RETARDER**

- A. Plastic Sheeting: ASTM D4397, minimum thickness of 10 mils.
- B. Sealant and Tape: As recommended by vapor retarder manufacturer.

### **2.03      UNDERSLAB VAPOR RETARDER**

- A. Meet or exceed ASTM E1745, Class A with the following properties:
  - 1. Water Vapor Permeance: 0.03 perm maximum when tested in accordance with ASTM E96/E96M or ASTM F1249.
  - 2. Tensile Strength: 45-foot-pounds per inch minimum, when tested in accordance with ASTM D882.
  - 3. Puncture Resistance: 2,200 grams minimum, when tested in accordance with ASTM D1709.
  - 4. Thickness: 10 mils minimum, in accordance with ACI 302
- B. Manufacturers and Products: Stego Industries, LLC, Stego Wrap Class A Vapor Retarder.
- C. ANCILLARY MATERIALS
  - 1. Fasteners, Tape, Adhesive, or Sealant: As recommended by vapor retarder manufacturer.
  - 2. Pipe Boots: Manufacturer's recommended prefabricated or field fabricated item.

## 2.04 BATT INSULATION

### A. Fiberglass Batts:

1. ASTM C665, Type A: I, with no vapor retarder.
  - a. Minimum R-value:
    - 1) R-15 at 3-5/8-inch stud depth.
    - 2) R-21 at 6-inch stud depth.
2. Manufacturers: Owens Corning.

### B. Fasteners: As recommended by insulation manufacturer.

### C. Tape: As recommended by insulation manufacturer.

## 2.05 RIGID INSULATION

### A. Expanded Polystyrene Foam (EPS):

1. ASTM C578, Type IX.
2. Flame Spread: Less than 25 when tested in accordance with ASTM E84.
3. Minimum R-Value:
  - a. At cavity walls and interior walls below grade: R-9.5.
  - b. At perimeter foundations slab on grade: R-15.
4. Manufacturers and Products:
  - a. Atlas EPS, Atlas Roofing Corp., ThermalStar Insulation board 25.
  - b. Alleguard: Envirosheet Rigid Board Insulation, EN25.
  - c. Insulfoam: R-Tech IV.

### B. Adhesives and Fasteners: As recommended by insulation manufacturer.

## 2.06 INSULATION FOR MISCELLANEOUS VOIDS

### A. Spray Polyurethane Foam (SPF) Insulation: ASTM C1029, Type II, closed cell, with maximum flame-spread and smoke-developed indexes of 25 and 450, respectively, per ASTM E84.

### B. Manufacturers and Products: Carlisle, SealTite Pro HFO.

## PART 3 EXECUTION

## 3.01 BATT INSULATION

### A. Install in accordance with manufacturer's instructions and as specified below:

1. Install in widths required by framing spacing with vapor retarder facing warm side.

2. Fit tightly to ensure continuous seal. Tape overlapping flanges of vapor retarder when necessary, using tape as recommended by insulation manufacturer.
3. Where electrical outlets, ducts, pipes, vents, or other utility items occur, place insulation on cold-weather side of obstruction.
4. Protect installed insulation from tears and other damage until covered with finish material.
5. Remove and replace damaged material.

### 3.02 SILL SEALER

- A. Install under metal stud plates resting on concrete slabs.

### 3.03 VAPOR RETARDER

- A. Install in accordance with the following:
  1. Framing locations using batt insulation: CT27 and skylight support walls at IP20 and CP20.
  2. Apply to wall and ceiling framing in sheets as large as possible.
  3. Lap joints 6 inches.
  4. Seal joints with sealant and tape as recommended by vapor retarder manufacturer.
  5. Fit tightly and seal around penetrations.
  6. Repair minor tears or holes with tape.
  7. Replace sheets with tears or holes, which require more than 6-inch length of tape to repair.

### 3.04 UNDERSLAB VAPOR RETARDER

- A. Apply in accordance with manufacturer's instructions.
- B. Limited locations:
  1. Chemical building IP15.
  2. Restrooms at pump stations IP20 and CP20.
- C. After base for slab has been leveled and tamped, apply vapor retarder with roll width parallel to direction of concrete pour.
- D. Lap vapor retarder over footings and seal to foundation walls.
- E. Overlap joints 6 inches and seal with tape.
- F. Seal penetrations with pipe boots.
- G. Repair damaged areas with patches of vapor retarder, overlapping damaged area by 6 inches and sealing sides of patch with tape.

- H. Upon completion of vapor retarder installation, remove waste materials and debris resulting from this operation and dispose offsite.

### 3.05 RIGID INSULATION

- A. Install in accordance with the following:
  - 1. Install boards in location and in R-value as specified.
  - 2. Cut insulation with saw, knife, or other sharp tool to fit tightly around obstructions.
  - 3. Butt insulation boards together tightly at joints.
  - 4. Where thickness required exceeds 1-1/2 inches, install two layers of boards.
  - 5. Apply to masonry with fasteners recommended by insulation manufacturer.
  - 6. Apply to perimeter foundation for unheated slab on grade installations.

**END OF SECTION**

