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Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, contained in the *CSI Manual of Practice*.

The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the drawings.

Delete all "Specifier Notes" when editing this section.

SECTION 07210

RADIANT BARRIER

Specifier Notes: This section covers Fi-Foil Silver Shield™ B-3 Hi-Perm multi-layer radiant barrier intended for use on roof rafters.

Consult Fi-Foil for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Multi-layer radiant barrier.

1.2 RELATED SECTIONS

Specifier Notes: Edit the following list of related sections as required for the project. List other sections with work directly related to this section.

- A. Section 06110 - Wood Framing.
- B. Section 07260 - Vapor Retarders (Not a vapor Retarder)
- C. Section 07270 - Air Barriers.
- D. Section 09110 - Metal Furring Systems.

1.3 REFERENCES

Specifier Notes: List standards referenced in this section, complete with designations and titles. This article does not require compliance with standards, but is merely a listing of those used.

- A. ASTM C 1158 - Installation and Use of Radiant Barrier Systems (RBS) in Building Construction.
- B. ASTM C 1338 - Determining the Fungi Resistance of Insulation Materials and Facings.
- C. ASTM C 1371 - Determination of Emittance of Materials Near Room Temperature Using Portable Emisometers.
- D. ASTM D 3310 - Determining Corrosivity of Adhesive Materials.
- E. ASTM E 84 - Surface Burning Characteristics of Building Materials.
- F. ASTM E 96 - Water Vapor Transmission of Materials.

1.4 SUBMITTALS

- A. Comply with Section 01330 - Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including installation instructions. Indicate compliance with material requirements.
- C. Samples: Submit manufacturer's sample, minimum 6 inches square.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying material name and manufacturer.
- B. Storage: Store materials in a clean, dry area indoors in accordance with manufacturer's instructions.
- C. Handling: Protect materials during handling and installation to prevent damage.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Fi-Foil Company, Inc. PO Box 800, Auburndale, Florida 33823. Toll Free (800) 448-3401. Phone (863) 965-1846. Fax (863) 967-0137. Web Site www.fifoil.com. E-Mail custserv@fifoil.com.

2.2 RADIANT BARRIER

- A. Multi-Layer Radiant Barrier: Fi-Foil Silver Shield™ B-3 Hi-Perm.
- B. Description:
 - 1. Inside Layer: 1.4 mil metalized PVC.

2.2 RADIANT BARRIER (continued)

2. Outside Layer: 0.000285 inch aluminum foil laminated with fire-retardant adhesive to 30 pound natural kraft paper. Reinforced with tri-directional fiberglass and polyester scrim.
3. Reflective Air Space: Layers expand when installed to form reflective air space.
4. Perforated.

C. Compliance:

1. ASTM C-1313.
2. ICC Legacy Report #2133A.
3. Metro-Dade Report 01-1127.11.
4. Earned Energy Star.
5. State of CA - Lic #TD 1390-CA-T390.

D. Testing:

1. Water Vapor Permeance, ASTM E 96: 5.
2. Flammability, ASTM E 84:
 - a. Flame Spread Rating: 0.
 - b. Smoke Developed Rating: 0.
 - c. NFPA Classification: Class A.
3. Thermal Emittance, ASTM C 1371:
 - a. First Layer, MET PVC: 0.04.
 - b. Second Layer, Foil Laminate: 0.03.
4. Corrosivity, 5 Days, ASTM D 3310: No change.
5. Adhesive Performance:
 - a. Bleeding: None.
 - b. Delamination: None.
 - c. Pliability: None.
6. Mold and Mildew, ASTM C 1338: Pass.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive multi-layer radiant barrier Hi-Perm. Notify Architect if areas are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

3.2 INSTALLATION

- A. Install multi-layer radiant barrier Hi-Perm in accordance with manufacturer's instructions at locations indicated on the drawings.
- B. Splice multi-layer radiant barrier Hi-Perm in accordance with manufacturer's instructions.
- C. Replace damaged material as directed by Architect.

3.3 PROTECTION

- A. Protect multi-layer radiant barrier Hi-Perm from damage during construction.

END OF SECTION