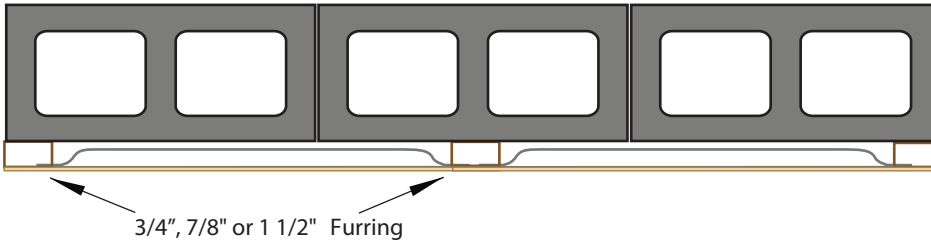




Fi-Foil AA2 Vapor Shield™ is a reflective insulation intended for use on furred-out masonry walls. The inside layer is aluminum foil. The outer layer is natural Kraft paper coated with polyethylene, laminated to flange boards or expanders that separate paper and foil creating a reflective air space. When installed on furring strips spaced 16" or 24" on center, a second reflective air space is formed. This air space is dependent upon the thickness of the furring strip selected. The Hi-Perm version includes small perforations for applications not requiring a vapor retarder. AA2 is available in both staple tab (for wood furring) and tape tab (for metal framing).



Product Package Information

| | | |
|----------------|-------------|-------------|
| Furring Width | 16" O.C. | 24" O.C. |
| Width Expanded | 17.5" | 25.5" |
| Diameter | 10" | 8" |
| Lineal Footage | 375' | 250' |
| Coverage | 500 sq. ft. | 500 sq. ft. |
| Weight | 21 lbs. | 19 lbs. |

Definition of Reflective Insulation

Reflective insulation is used to reduce the transport of energy across air spaces in a building envelope and consists of one or more low emittance surfaces (0.10 or less), bounding one or more enclosed air spaces. Reflective insulation can also use other layers of materials such as paper or plastic to form enclosed air spaces as part of the system. The performance of the reflective insulation system is determined by the emittance of the material(s), the lower the better, and the size of the enclosed air spaces. The smaller the enclosed air space, the less heat will transfer by convection. Standards and requirements for Reflective Insulation have been established by the American Society for Testing and Materials (ASTM) and the Federal Trade Commission.

R-Values

Heat Flow Horizontal

| | Standard | Hi-Perm |
|-------------------------|----------|---------|
| 3/4" Cavity | R- 4.2 | R- 4.1 |
| 7/8" Cavity | R- 4.5 | R- 4.6 |
| 1-1/2" to 1-5/8" Cavity | R- 5.2 | R- 5.1 |

The R-values noted are in accordance with ASTM C1224. The R-values of AA2 Vapor Shield™ increase with the thickness of the cavity or furring strips.

Test Data

| Product Version | Perforated | Non-Perforated |
|---|------------|--------------------------------------|
| ASTM E 96 Water Vapor Permeance | 4.72 | 0.80 |
| ASTM E 84-94 Flammability | | |
| Flame Spread Rating | 45 | 45 |
| Smoke Developed Rating | 10 | 10 |
| National Fire Protection Association Rating | Class B | Class B |
| ASTM D 3310 Corrosivity..... | | Pass |
| ASTM C 1224/Section 9 Adhesive Performance | | |
| Bleeding..... | | None |
| Delamination..... | | None |
| Pliability..... | | No signs of cracking or delamination |
| ASTM C 1338 Mold & Mildew | | Pass |
| ASTM C 1371 Foil Emittance..... | | 0.03 |

Compliance and Approvals

- Meets: ASTM C1224
 - **Compliance with the following codes:**
 - 2012, 2009, and 2006 International Building Code (IBC)
 - 2012, 2009, and 2006 International Residential Code (IRC)
 - 2012, 2009, and 2006 International Energy Conservation Code (IECC)
 - 2014, 2010 & 2007 Florida Building Code (FBC)
 - 2014, 2010, & 2007 Florida Residential Code (FRC)
 - 2014, 2010, & 2007 Florida Energy Conservation Code (FECC)
 - Evaluated in accordance with *
 - ICC-ES AC 02 - Acceptance Criteria for Reflective Insulation, approved June 2011
 - State of California Bureau of Home Furnishings and Thermal Insulation License #T1390, Registry #CA-T390 FL
- *See IAPMO-ES Report #0291

High Recycled Content

Certified by a third party testing and inspection service (R&D Services, Inc.), Reflective Insulation has more than 44 percent recycled content, with at least 42 percent being post-consumer content.

- 16" AA2 More than 44% Recycled Content
- 24" AA2 More than 44% Recycled Content

Read This Before You Buy

The label shows the R-value of the insulation. R means resistance to heat flow. The higher the R-value, the greater the insulating power. Compare insulation R-values before you buy. There are other factors to consider. The amount of insulation you need depends mainly on the climate you live in. Also, your fuel savings from insulation will depend on the climate, the type and size of your house, and your fuel use patterns and family size. If you buy too much insulation, it will cost you more than what you will save on fuel. To get the marked R-value, it is essential that this insulation be installed properly.