

E. L. Foust Co., Inc.
754 N. Industrial Drive
Elmhurst, IL 60126
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Shurtape®
Pressure Sensitive Tapes

Technical Report
AF-973
General Purpose Aluminum Foil Tape

Construction

Overall Grade/Function: General Purpose

Backing: 2.0 mil, dead soft aluminum foil

Adhesive: High tack, Synthetic Rubber; All weather adhesive

Liner: Non-contaminating, siliconized, flat, white paper release liner (Thickness shown below does not include liner.)

Color: Silver

Applicable Specifications: Meets requirements of UL 723; Flame Spread Index 10; Smoke Development Index 5

| Physical Characteristics | Standard | Metric |
|-----------------------------|-------------------|---------------|
| Tensile Strength | 16 lbs./in. width | 28.0 N/10mm |
| Adhesion to Stainless Steel | 85 oz./in. width | 9.30 N/10mm |
| Thickness | 4.4 mils | .11 mm |
| Elongation | 2 % | 2 % |
| Service Temperature Range | 32° F to 150° F | 0° C to 66° C |

Physical and performance characteristics shown above are obtained from tests recommended by PSTC, ASTM, government agencies or Shurtape Technologies, LLC Quality Assurance and Technical Service Departments and do not represent a guarantee of product performance. Individual rolls may vary slightly from these averages. The user should determine whether the product is fit for a particular purpose and is suitable for the user's method of application before use.

APPLICATIONS:

- HVAC Industry to seal and join fiberglass duct insulation - can be applied to both smooth and scrim foil surfaces.
- Lane Marking
- Temporary metal repair

PRODUCT BENEFITS

- Virtually wrinkle-free appearance
- Resists water vapor, odor and smoke transmission
- Excellent shelf life
- Indefinite product life after application
- Latex free
- Solvent free

STORAGE & USAGE CONDITIONS

Tape should be stored in its original packaging in a cool, dry area away from direct sunlight and should be used within 12 months of date of shipment. Surfaces to which tape is applied should be clean, dry and free of grease, oil or other contaminants.

AVAILABILITY:

2" wide x 150 ft. long rolls \$12.54 per roll
3" wide x 150 ft. long rolls \$17.56 per roll
Plus shipping

ISO 9000 Certified Quality System



close

PRODUCT INFORMATION

tesa® 53900

Aluminum Foil Tape

Product Description

tesa® 53900 combines a flexible, soft aluminum foil backing with an aggressive rubber adhesive and paper liner. This tape offers the flexibility and adhesive strength to conform to the most irregular contours. Available Colors: Silver

Main Applications

- FSK facings
- Vapor barrier
- Sealing
- Duct board joints

Technical Data

| | |
|---------------------|--------------------------|
| Backing material | aluminum foil |
| Type of adhesive | natural rubber |
| Total thickness | 101,6 µm 4.0 mils |
| Adhesion to steel | 9.9 N/cm 90.4 oz/in |
| Elongation at break | 3 % |
| Tensile strength | 29.8 N/cm 17.0 lbs/in |

tesa® products prove their impressive quality day in, day out in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless tesa SE can make no warranties, expressed or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa® product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical support staff will be glad to advise you.

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PRODUCT DATA REEL TAPE AF-20A/UL/FR 2.0 MIL FLAME-RETARDANT ALUMINUM FOIL TAPE WITH ACRYLIC ADHESIVE

AF20A/UL/FR is a dead soft high tensile Aluminum Foil backing, combined with a high flame-retardant acrylic adhesive carried on a removable paper release liner.

FEATURES/BENEFITS: High quality flame-resistance adhesive with super strong adhesion and holding power offers reliable and durable Foil-Scrim-Kraft Facing joints and seams sealing in HVAC ductwork application. Malleable foil conforms well to irregular and curved surfaces. UL printed core.

APPLICATIONS:

- Used to seal seams and joints on aluminum faced fiberglass duct board.
- Used to provide a vapor barrier that assures the integrity of the system- can also be used on FSK systems and seams sealing in HVAC ductwork application.
- May also be used for other industrial uses requiring a tape with these characteristics and benefits.

PHYSICAL PROPERTIES*:

| | |
|-------------------------------|-----------------|
| Adhesive | Acrylic |
| Peel Adhesion | 72 oz. /in |
| Foil Thickness | 2.0 mil |
| Thickness (of foil+ Adhesive) | 3.6 mil |
| Rolling Tack (11mm ball) | >8.0 inch |
| Holding Power | 2000+ Min. |
| Flame Spread | 0 (>25) UL723 |
| Temperature Range | -40°F - +302°F. |
| Tested as per UL723 | |
| Max. 5 Flame Spread | |
| Max. 50 Smoke Dev. | |

SURFACE PREPARATION: It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied must be clean, dry and free of grease, oil or other contaminants.

STORAGE TEMPERATURE/SHELF LIFE: Tape should be stored in a cool dry area at temperature of 70°F/ 50%relative humidity out of direct sunlight. If so, shelf life is for one year from date of manufacture. Note the shelf life is dependent upon storage in a controlled environment – moderate temperature and humidity conditions.

PRODUCT USE: It is essential that the user evaluate the product to determine whether it is fit for a particular purpose and user's method of application. Good results will be obtained when applied to a clean, dry surface with a suitable pressure on product between +50°F - 105°F.

AVAILABILITY:

Available only in 2" wide rolls by 150 ft. long - **\$10.25 per roll plus shipping**

*The physical properties listed above are typical test results obtained from a series of laboratory tests and should not be used for the purpose of writing specifications. Before using this product, user shall determine the suitability of the product for his/her use, and user assumes all risks and liabilities in connection therewith. All test procedures used are in accordance with ASTM and PSTC methods.

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DENNYFOIL® ALUMINUM VAPOR BARRIER

Here's the finest reflective insulation and vapor barrier for your money. Meets all FHA requirements for vapor protection on floors, sidewalls, ceilings and linings between loose subfills and concrete. Dennyfoil Vapor barrier cuts mildew and dampness, reduces inner wall condensation, retards combustions. It is clean, light and easy to install.

ALWAYS USE DENNYFOIL VAPOR BARRIER ON WARM SIDE OF WALL

Tremendous in commercial use...



Factories, office building and retail establishments...

can save energy and reduce fuel costs with Dennyfoil. Quick, easy application to all types of walls, floors, roofs and ceilings makes it ideal for commercial use. And Dennyfoil is clean, light and economical.

- Ceilings & Floors – Save 50-60% Heat Loss
- Walls - Retain 50% More Heat
- Attics & Roofs – Summer Reduction of 20°
- Cupboards & Pantries – Stay Dry & Free From Moisture
- Radiators & Water Heaters – Operate More Efficiently

LOW COST - EASY TO APPLY

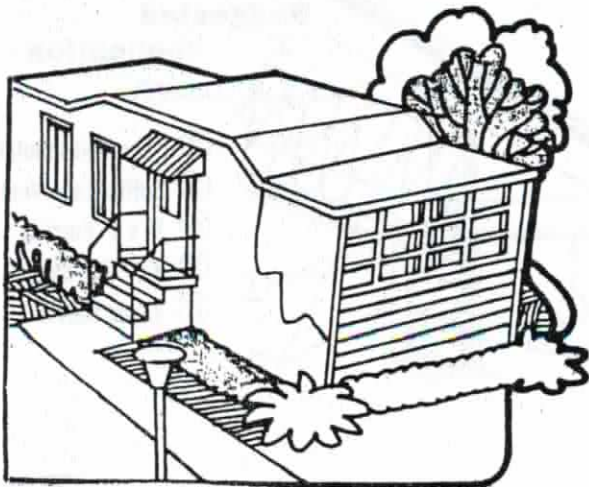
Dennyfoil Aluminum Insulation is installed with minimum equipment at low cost. Tools include knife or shears, stapler or tack hammer and rule. Professionals and non-professionals alike find directions easy to follow; application fast and clean.

Dennyfoil #245 -

.004 mils thick. 3 ft. wide x 166-1/3 ft. long-
Covers 500 sq. feet.

Mobile Homes

can be made more energy efficient with Dennyfoil. When installed between the sheathing and interior wall, Dennyfoil will act with two insulating air spaces to improve thermal resistance.



TECHNICAL DATA • REFLECTIVE INSULATION AND VAPOR BARRIER

ALUMINUM VALUES IN AIR SPACES*

| Location & Position of Air Spaces | Season | Air Space Thickness (Inches) | Thermal Resistance (R) Number of Air Spaces | | |
|-----------------------------------|--------|------------------------------|---|-------|-------|
| | | | 1 | 2 | 3 |
| Ceilings & Joists (Horizontal) | Summer | ¾ | 3.25 | 6.50 | 9.75 |
| | | 1½ | 5.24 | 10.48 | 15.72 |
| | Winter | ¾ | 1.67 | 3.34 | 5.01 |
| | | 4 | 2.06 | 4.12 | 6.18 |
| Walls (Vertical) | Summer | ¾ | 3.28 | 6.56 | 9.84 |
| | | 4 | 3.44 | 6.88 | 10.32 |
| | Winter | ¾ | 2.80 | 5.60 | 8.40 |
| | | 4 | 2.62 | 5.24 | 7.86 |
| Floors (over Crawl Space) | Summer | ¾ | 2.26 | 4.52 | 6.78 |
| | | 4 | 2.75 | 5.50 | 8.25 |
| | Winter | ¾ | 3.55 | 7.10 | 10.65 |
| | | 1½ | 5.74 | 11.48 | 17.22 |
| Rafters (45° Slope) | Summer | ¾ | 3.24 | 6.48 | 9.72 |
| | | 4 | 4.36 | 8.72 | 13.08 |
| | Winter | ¾ | 1.95 | 3.90 | 5.85 |
| | | 4 | 2.22 | 4.44 | 6.66 |

VAPOR BARRIER TYPE

| Stock No. | Foil | Width | Approximate wt. per roll | Sq. ft. per roll |
|-----------|------|-------|--------------------------|------------------|
| 142 | 1/s | 36" | 5 lbs. | 250 |
| 145 | 1/s | 36" | 9 lbs. | 500 |
| 242 | 2/s | 36" | 9 lbs. | 250 |
| 245 | 2/s | 36" | 13 lbs. | 500 |

BREATHER TYPE

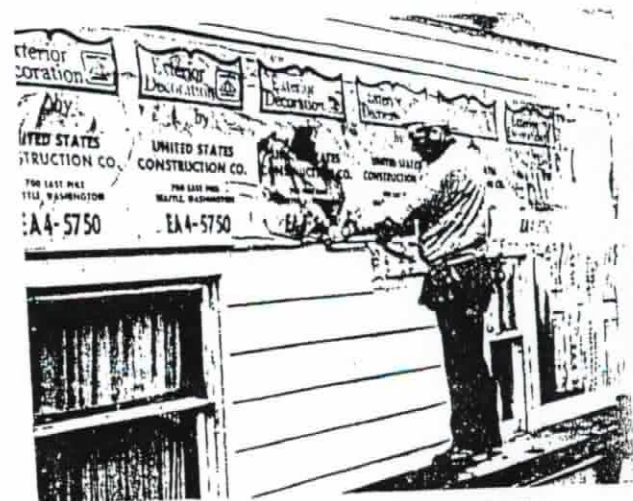
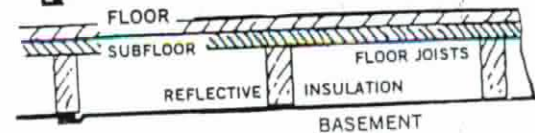
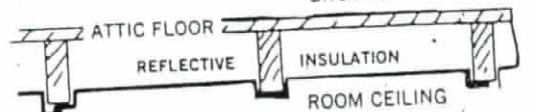
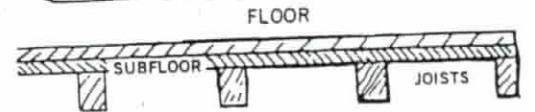
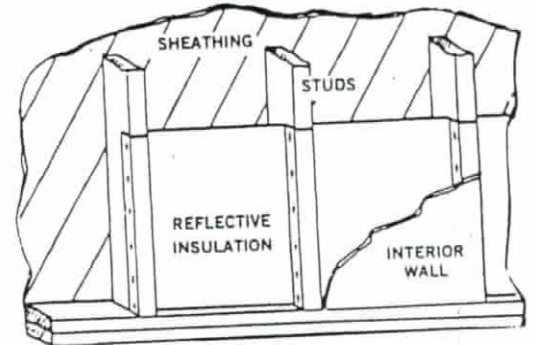
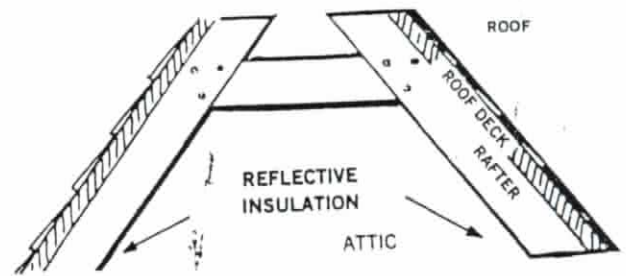
| | | | | |
|------|-----|-----|---------|-----|
| 1635 | 1/s | 36" | 7 lbs. | 500 |
| 1645 | 1/s | 36" | 9 lbs. | 500 |
| 2645 | 2/s | 36" | 13 lbs. | 500 |

MOISTURE VAPOR TRANSMISSION

| Material | Moisture Vapor Transmission* Grains—sq. ft. hr. (in hg.) |
|---|--|
| DENNYFOIL (2 sides) VAPOR BARRIER** | 0.002 |
| DENNYFOIL (one side) VAPOR BARRIER** | 0.006 |
| Polyethelene (4 mils) | 0.08 |
| Polyethelene (2 mils) | 0.16 |
| Duplex paper—30-120-30 | 0.44 |
| Plywood 1/4" Douglas fir, soybean glue, plain | 5.4 |
| Plaster wood lath | 11.0 |
| Slater's Felt | 15.0 |
| Plestered Wall, no paint, plasterboard lath | 20.0 |
| Mineral Wool, unprotected 1" | 29.0 |
| Insulating Lath and sheathing board type | 30.0 |
| Kraft Paper, double infused | 30.8 |
| Kraft Paper, single sheet | 82.5 |
| DENNYFOIL—BREATHER TYPE** | 88.0 |

*Average values obtained from ASHRAE Guide, 1972
**Penn State Report

5 TYPICAL APPLICATIONS



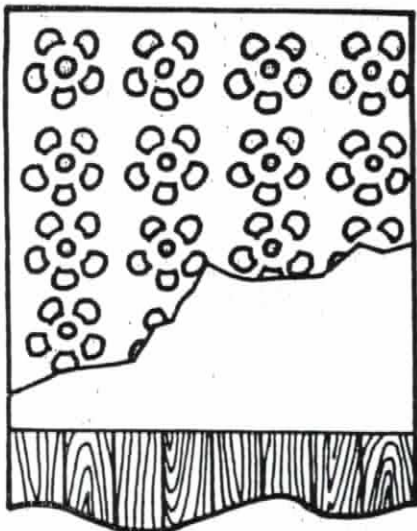
LOW COST — EASY TO APPLY

Dennyfoil Aluminum Insulation is installed with minimum equipment at low cost. Tools include knife or shear, stapler or tack hammer and rule. Professionals and non-professionals alike find directions easy to follow; application fast and clean.

Great at home

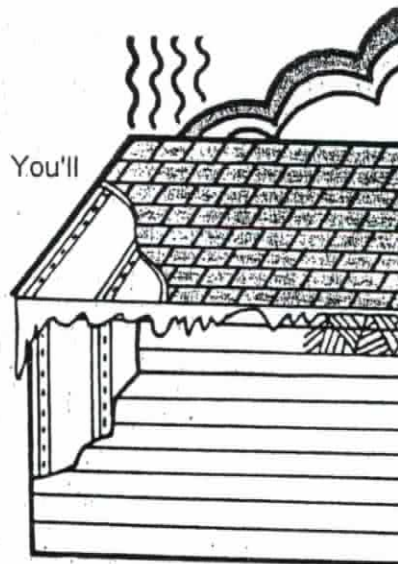
Ceilings and floors...

are better insulative barriers when Dennyfoil is installed. You'll save 50% of heat loss through ceilings and 64% through floors with Dennyfoil. And that adds up to a big cash savings in light of today's rising energy costs.



the winter when Dennyfoil is applied. A summer temperature reduction of up to 20° can be obtained when Dennyfoil is stapled over the roof rafters in your attic.

You'll

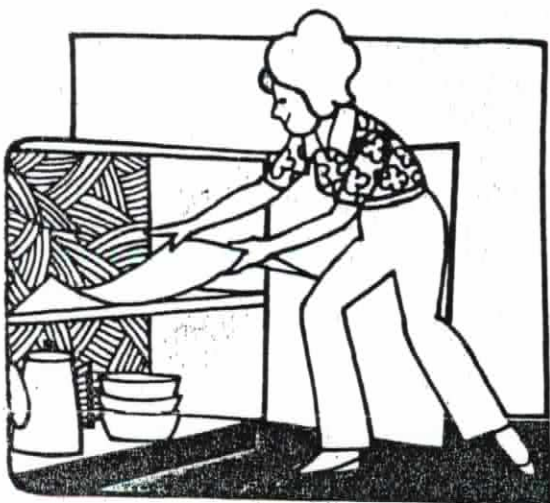
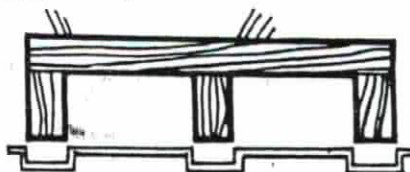


Walls...

will retain 50% more heat with Dennyfoil. And, Dennyfoil's vapor barrier reduces water condensation in the wall space to eliminate rotted sheathing, blistered paint and timber decay. Dennyfoil is also recommended for use with bulk wall insulation to prevent bulk material from absorbing moisture and becoming less effective.

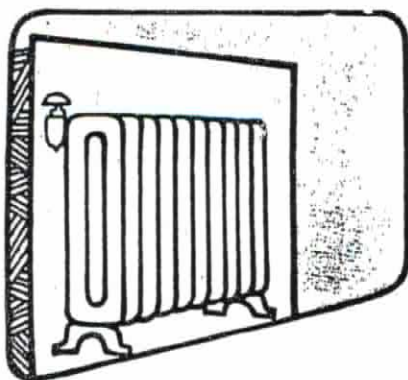
Attics and roofs...

help keep your home cool in the summer and warm in



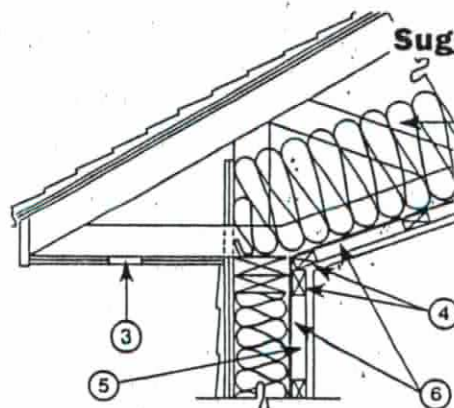
Cupboards and pantries...

Stay dry and free from moisture to avoid food spoilage when Dennyfoil is applied to shelves. Install Dennyfoil in closets and prevent dampness and mildew there, too.



Radiators and water heaters...

Are more efficient when Dennyfoil is installed behind them. The aluminum surface reflects heat from radiators and water heaters back into your home - saving energy and money.



Suggested Application

- ② Specified Insulation
- ③ Soffit/Eave Vent
- ④ 1" x 2" Furring
- ⑤ 3/4" Air Space
- ⑥ Vapor Barrier