



REFLECTIX® SUBMITTAL SHEET

# Reflectix® Poly-Fiber Duct Insulation Duct Wrap & Liner Combo (R-4.2, R-5.6, R-6.0, R-8.0)

**Features**

**AT A GLANCE:**

Reduces overall thickness of conventional R-8.0 wrap (3" to 2")

Inhibits condensation

Improves acoustics or noise control

Reduces overall heat loss in the winter and heat gain in the summer

**WAREHOUSE LOCATIONS:**

Markleville, IN

Phoenix, AZ

Greenville, SC

Needham, MA

Reflectix is proud to announce the introduction of a new and innovative design in Duct Insulation; the Reflectix® Poly-Fiber Duct Insulation. This product combines the "Easy to Handle" and "No Itch" characteristics of our other Reflectix® products with enhanced thermal performance.

**PRODUCT DESCRIPTION**

Reflectix® Poly-Fiber Duct Insulation is composed of (1", 1.25", 1.5", and 2") polyester fibers, bonded to a metalized polyester (MET/PET)(one side). It is made from a proprietary blend of high-performance and recycled polyester fibers. They are most commonly found in sports apparel, bedding, and health and hygiene products. 100% of the recycled fiber comes from common sources such as (post consumer) water and pop bottles. This product is made of 50% recycled (post-consumer) content, and 25% recycled content. (No formaldehyde, harmful chemical binders, or irritating chemical fire retardants.) The product effectively absorbs airborne noise and greatly reduces sound transmission throughout a building environment. It is a Class 1/Class A product and provides a solution to growing environmental concerns while reducing carbon emissions.

**ECO / GREEN BENEFITS**

1. Recycled polyester fibers are commonly found in sports apparel, bedding, and health and hygiene products
2. 100% of the recycled fiber comes from common sources such as (post consumer) water and pop bottles
3. The product is made of 50% recycled (post-consumer) content
4. No Formaldehyde, harmful chemical binders, or irritating chemical fire retardants
5. Contains no VOCs (0 ppm - CA 1350) making it GREENGUARD for children and schools compliant
6. Provides a solution to growing environmental concerns while reducing carbon emissions
7. No long term degradation - Sustainable energy efficiency

**SUGGESTED USES**

Commercial · Industrial · Institutional · Residential · Schools · Hospitals · Federal Buildings · Healthcare Facilities · Medical Centers · LEED Buildings

**QUALITY ASSURANCE - ISO 9001:2015**

GREENGUARD Environmental Institute has certified Polyester (vertical) for low emissions of total particle, formaldehyde and other Volatile Organic Compounds (VOCs).

Reflectix, Inc.  
#1 School St. (PO Box 108)  
Markleville, IN 46056  
(800) 879-3645  
Fax: (765) 533-2327  
www.reflectixinc.com



Reflectix® Duct Insulation Products are ETL and Warnock Hersey Listed.

## FEATURES & BENEFITS

- Inhibits condensation when properly installed (sealed joints & seams)
- Reduces overall heat loss in winter, and heat gain in summer
- Fiberglass free / Does not itch
- Class A / Class 1 Fire Rating
- 100% Formaldehyde FREE
- NO Carcinogens or VOCs making it GREENGUARD for children and Schools compliant
- Flexible / Lightweight
- Excellent acoustical properties
- Tough / Resilient / Superior compression recovery
- When wrapped correctly, nearly 100% recovery
- Energy cost decrease / System efficiency increase
- High (NRC)
- Reduces sound transmission through the duct wall
- 100% polyester - used in baby diapers, feminine care, hygiene, apparel, etc.
- NO respiratory or skin irritation issues
- NO protective gear required for installation
- Not only is it made from recycled material, but it is 90-95% recyclable with MET/PET applied and 100% without MET/PET applied
- Sourced from 50% post-consumer recycled plastic bottles (PET)
- No long term degradation-sustainable energy efficiency
- Low K-value reduces heat loss or gain when applied with proper compression
- Alternative to rubberized duct liner (elastomeric)

## LIMITATIONS

- Product to be kept clean and dry
- Not to exceed temperatures of 250 degrees / 121.1 celsius
- Do not use in ducts with fan velocities over 4K fpm

## THERMAL PERFORMANCE AND STANDARD AVAILABLE SIZES

PRODUCT	DENSITY	R-VALUE	K-VALUE Btu IN/ (h*ft <sup>2</sup> *f)	THICKNESS (Nominal)		WIDTH		LENGTH	
				Inches / (MM)	Millimeter	Inches / (MM)	Millimeter	Feet / (M)	Meter
HVPPF1-48050	1.6 lbs	R-4.2	.238	1"	25.4	48"	1219.2	50'	15.24
HVPPF1-48100	1.6 lbs	R-4.2	.238	1"	25.4	48"	1219.2	100'	30.48
HVPPF1.25-48050	1.5 lbs	R-5.5	.182	1.25"	31.75	48"	1219.2	50'	15.24
HVPPF1.25-48100	1.5 lbs	R-5.5	.182	1.25"	31.75	48"	1219.2	100'	30.48
HVPPF1.5-48050	1.5 lbs	R-6	.167	1.5"	38.1	48"	1219.2	50'	15.24
HVPPF1.5-48100	1.5 lbs	R-6	.167	1.5"	38.1	48"	1219.2	100'	30.48
HVPPF2-48050	1.4 lbs	R-8.1	.123	2"	50.8	48" Std. Possible 47.5", 56.25", 60", 72"	1,219.2	50'	15.24

## TECHNICAL DATA

PROPERTIES	PERFORMANCE	TEST METHOD
Thermal Resistance	R-values: 1.00" - R-4.2, 1.25" - R-5.5 1.50" - R-6.0, 2.00" - R-8.1	ASTM C518
Operating Limits Temperature	-30-250° F (-34.444°C to 121.111° C)	ASTM C411
Surface Burning Characteristics UL/ULC listed or ETL	Maximum Flame Spread 25 Smoke Development 50	NFPA 255 UL 723 ASTM E84 CAN 4-S102
Non-Combustible	Meets Test Results	ASTM E136
Water Vapor Sorption	.02 - Meets Requirement	ASTM C1104
Water Vapor Transmission (Facing Only)	MET/PET 0.02 Perms Vinyl 1.3 Perms	ASTM E96, Procedure A Method A
Corrosion Resistance	Pass	ASTM C665
Fungi Resistance	Pass - No Growth	ASTM C1138 ASTM C1338 Mold ASTM C665, ASTM G21
Odor Emission	Pass	ASTM C1304

## SOUND ABSORPTION COEFFICIENTS AT FREQUENCY ASTM STANDARD C423

MATERIAL	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	NRC
Minimum 2"	0.53	0.76	1.16	0.78	0.4	0.80

## LEED CREDITS - WWW.USGBC.ORG

MR Credit 4.1	10% Recycled Content	Value determined by weight 50% Post-Consumer
MR Credit 4.2	20% Recycled Content	Value determined by weight 50% Post-Consumer
MR Credit 5.1	20% Material Manufactured in 500 Mile Radius	Value determined by weight
MR Credit 5.2	10% Material Extracted in 500 Mile Radius	Value determined by weight

## LEED INDOOR ENVIRONMENTAL AIR QUALITY

IEQ Credit 3.2	Low-Emission Material	Product contains no formaldehyde, VOCs, other harmful chemicals, or irritants.
----------------	-----------------------	--

## LEED INNOVATION IN DESIGN

ID Credit 1	Contribute to Innovation in Design Credit	Product features superior thermal properties and resistance to degradation in energy efficiency so it can be used in Green building designs that call for non-glass, recyclable materials.
-------------	---	--

## MANUFACTURER'S SUGGESTED INSTALLATION INSTRUCTIONS

Note: Installation instructions and illustrated drawings are recommendations only, while proper local construction methods are the responsibility of the installer.

1. Sheet metal ductwork shall be clean, dry, and sealed tightly prior to insulating with Reflectix® Duct Wrap.
2. Reflectix® Duct Wrap is installed with the facer out. Sections of duct wrap shall be tightly butted. Seams shall be sealed with UL181 Tape.
3. Where rectangular ducts are 24" in width or greater, Reflectix® Duct Wrap may be additionally secured to the bottom of the duct with mechanical fasteners spaced 24" o.c. to prevent sagging.
4. Seams shall be sealed with pressure-sensitive tape. Seal all tears, punctures, and/or other penetrations of the duct wrap facing with tape or mastic to provide a vapor-tight system.
5. Do not wrap tightly as this will reduce the R-value.
6. When installing as a liner; use a water based adhesive and pin according to SMACNA HVAC Duct Standards.
7. For additional installation details, consult the National Commercial and Industrial Insulation Standards (current edition) published by the Midwest Insulation Contractors Association (MICA).

## WARRANTY DISCLAIMER

Note: Inasmuch as Reflectix, Inc. has no control over installation design, installation workmanship, accessory materials, or conditions of application, Reflectix, Inc. does not warrant the performance or results of any installation containing our products.

-----  
**WARRANTY DISCLAIMER INCLUDES ALL IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**  
-----

This technical data presented for Reflectix® Duct Wrap Insulation represents average values obtained in accordance with accepted test methods and is subject to normal manufacturing variations. Flame spread and smoke-developed ratings are not intended to describe the hazard presented by this material under actual fire conditions. This data is supplied as a technical service and is subject to change without notice.

## COST & AVAILABILITY

Contact your local distributor, or call our Reflectix Customer Service Department at (800) 879-3645 for pricing and availability.

## ACCEPTANCES / COMPLIANCES

International Code Council (ICC) and ASHRAE 90.1 & 90.2: Architects, contractors, code officials  
Specification Compliance In U.S.

- ASTM C 795 · California Title 24 - Energy Code
- CA BHFTI - CA Bureau of Thermal Insulation