

Reflectix® Insulation

Technical Information RDB1

Double Bubble, Metalized Both Sides

Reflectix® Insulation consists of two outer layers of metalized polyester. Each layer is bonded to a tough layer of polyethylene for strength. Two inner layers of insulating bubbles resist conductive heat flow while a center layer of polyethylene gives Reflectix® high reliability and strength.

Technical Data:

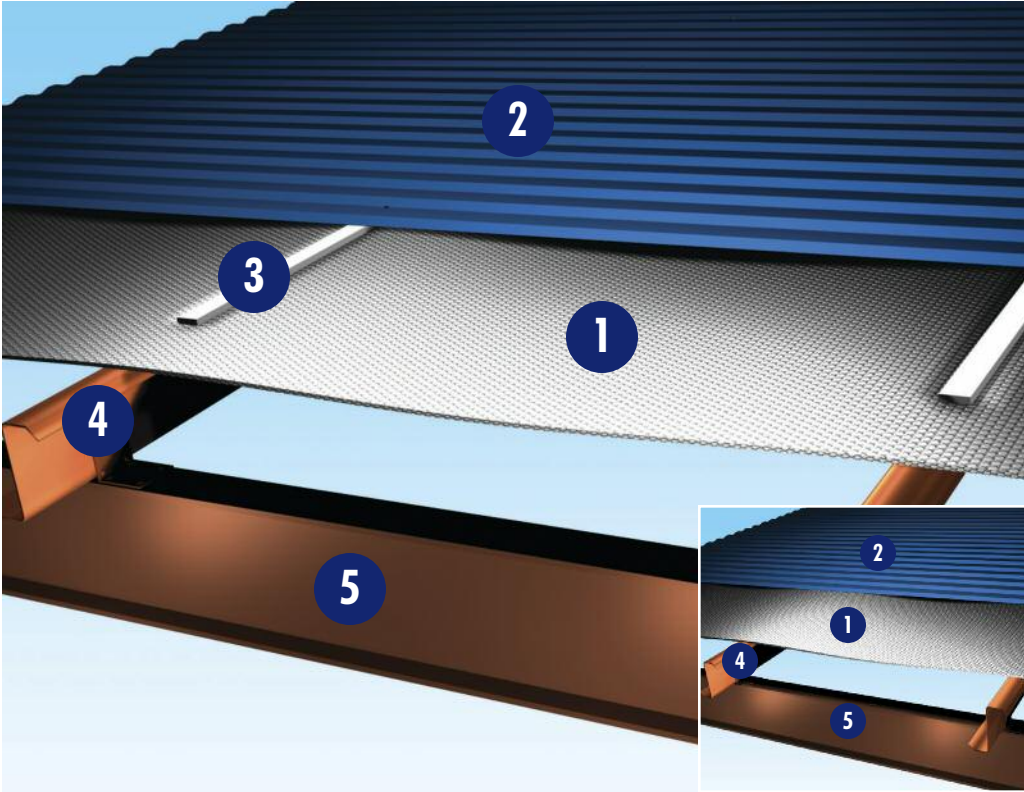
Temperature Range:	-60 degrees to +180 degrees F
Nominal Thickness:	5/16 inch (.312)
Weight:	1.25 oz./sq. ft.
Flame Spread Index (ASTM E 84):	Less than 25
Smoke Developed Index (ASTM E 84):	Less than 50
Fire Rating:	Class A/Class 1
Linear Shrinkage:	None
Reflectance (IR):	96%
Fungi Resistance:	No Growth
Emittance:	0.04
Pliability:	No Cracking / No Delamination
Bleeding and Delamination:	Passed
Elevated Temperature & Humidity Resistance:	
Delamination:	None
Corrosion:	None
Loss of Metalization:	None
Permeance After Aging:	0.024
Permeance Before Aging:	0.015

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Metal Building / Roof / New

Reflectix® Installation Instructions



1. Reflectix® Insulation
2. Exterior Roof Panel
3. 3/4" Thermal Break
4. Purlin
5. Red Metal (Structural Frame)

Tools Required:
Safety Glasses
Tape Measure
Utility Knife
Screw Gun

Recommended Products:

Reflective/Bubble/Bubble/Reflective - Roll: BP48100 (48"x 100')

Open Interior with 3/4" Thermal Breaks
R-10* Heat Flow Down (and a Radiant Barrier)
R-4.5* Heat Flow Up

Open Interior without Thermal Breaks and a Nominal 3/4" Drap
R-7.6* Heat Flow Down (and a Radiant Barrier)
R-3.9* Heat Flow Up

Please Note: In addition to the stated R-value, this application also provides a Radiant Barrier.

As a result, a 96% reduction of the radiant energy that ordinarily would be transmitted to the interior of the building is blocked.

Installation Instructions: (There are 2 options)

1. Open Interior with 3/4" Thermal Breaks

- After the red metal is erected, install the Reflectix® Reflective/Bubble/Bubble/Reflective product over the purlins by using 1/2" self-tapping metal screws and screwing the product to the purlins.

- Tape the seams with a Reflectix® Foil Tape (goal is an air-tight, snug seam seal).
- Install at least a 3/4" thermal break. If installing a standing seam roof, use clips with thermal breaks.
- Install roofing either by screwing corrugated metal screws through the thermal break and insulation to the purlin or install a standing seam roof.
- If an interior finish is to be installed, attach to the bottom of the purlins.
- This will create a 3/4" air space between the roofing and the insulation and an 8" air space between the insulation and the interior finish.

2. Open Interior without Thermal Breaks and a Nominal 3/4" Drap

- Per instructions above without the thermal break.

* Includes thermal resistance of 1.32 UP and 4.55 DOWN for interior air film.

Calculation Disclaimer: All values are calculated based on the "ASHRAE Handbook of Fundamentals" heat flow up and down.

Review These Important Safety Guidelines Prior to Installation:

- **ALWAYS** check local building codes before installing Reflectix®.
- **ALWAYS** check the area you are insulating and make any needed repairs. Any worn wiring should be replaced before you begin installing Reflectix®.
- **ALWAYS** make sure work areas are well ventilated and well lighted.
- **ALWAYS** use eye protection when operating a staple gun.
- **ALWAYS** use caution and common sense when using a staple gun. Be aware of where electrical wiring is located. Stapling into a wire can cause severe shock or death. **NEVER** staple into electrical wiring.
- **ALWAYS** be careful when working with large pieces of Reflectix® on windy days.
- When installing Reflectix® on bright sunny days, it is best to wear sun glasses.
- Do not work in areas such as attics when temperatures are too hot.
- Visit our website at www.reflectixinc.com for additional product and installation information.

Please Note:

The intention of these Installation Instructions and 3-D renderings are for the sole purpose of illustrating the correct location and relative position of the Reflectix® products in specific building assemblies. The correct construction methods and techniques are the responsibility of the installer or contractor. The methods outlined are recommendations on location of the Reflectix® products as a guideline. There are no claims on the part of Reflectix, Inc. that these building assemblies are finite standards or meet building code requirements (as they can vary by region).

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