

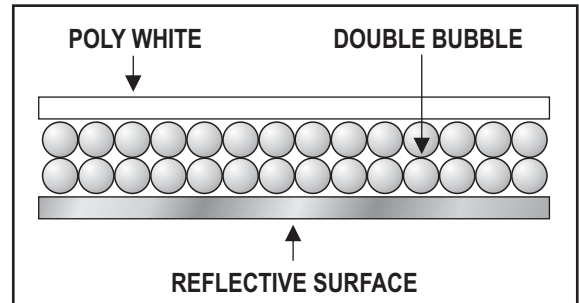
POLY - REFLECTIVE INSULATION (Double Layer)

TECHNICAL DATA

Product Description:

rFOIL™ Reflective Bubble Insulation is a double layer of polyethylene bubbles, sandwiched between a highly reflective surface and a white polyethylene sheet. It is ideal for many residential and commercial building applications, including walls and ceilings.

Adding rFOIL™ Reflective Bubble Insulation to your construction project improves the insulation value of the building envelope and significantly increases its energy efficiency. As well, all products in this line are classified as Class 1 / Class A in accordance with the ASTM-E84-09 fire test standard. The product was mounted in accordance to ASTM-E2599-08.



Stock Sizes Available (Rolls):

Size	48" X 125'	72" X 102'	72" X 125'
Part No.	2520-48-125	2520-72-102	2520-72-125

Features:

- UV (Ultra Violet) Resistant Facing
- 96% Reflectivity for optimal thermal performance
- Neat, washable white polyethylene surface / UV Protected
- Available in Square Edge, Quick-Seam or Tab Two
- Class 1 / Class A Fire Rating
- Radiant and vapor barrier all-in-one
- Double bubble provides an effective thermal break

Applications:

- Metal Buildings (roof, walls)
- Residential Wall Cavities
- Post Frame Buildings

Physical Properties	Test	Value
NOMINAL THICKNESS	—	5/16"
FIRE RATING	ASTM E84-09/ASTM E2599-08	CLASS 1 / CLASS A
EMISSIVITY	ASTM C1371-04A	0.04
REFLECTIVITY	ASTM E903	0.96
WATER VAPOR PERMEABILITY	ASTM E96	0.42 Perms
RESISTANCE TO FUNGI & BACTERIA	ASTM C1149	DOES NOT PROMOTE GROWTH
PLIABILITY	ASTM C1224-03	NO CRACKING
BLEEDING AND DELAMINATION	ASTM C1224-03	NO BLEEDING OR DELAMINATION
CORROSIVENESS	ASTM D3310-00	PASSES
UV TESTING	ASTM G155	90+% RETAINED RETENTION after 4000 hrs
FIRE RATING - FULL ROOM BURN	NFPA286	PASSES

Verified by



PATENTS

US Patent No.: 8,221,871
US Patent No.: 8,327,601
US Patent No.: 8,343,614

US Patent No.: 7,935,410
US Patent No.: 7,935,411

CDN Patent No.: 2,554,754
CDN Patent No.: 2,591,589



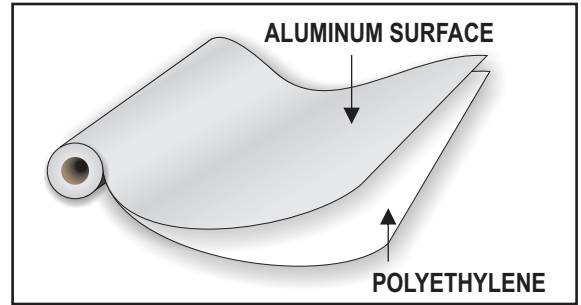
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Product Description:

rFOIL™ RVB (Reflective Vapor Barrier) gives you all the features of an approved vapor barrier, with the unique advantage of adding a radiant barrier component to your existing insulation. RVB is comprised of a single layer of highly reflective aluminum laminated to a heavy-duty sheet of polyethylene for superior quality and durability.

RVB increases the wall insulation value by up to 20% and also reflects 97% of all radiant heat waves. What this adds up to is a significant savings on air condition costs during the summer cooling months and a similar effect on heating costs during the winter.



Stock Sizes Available (Rolls):

Size	52" X 104'
Part No.	3800-52-104S

Features:

- Made with a highly reflective aluminum foil
- Durable and flexible polyethylene
- Reflects 97% of radiant heat
- Inhibits mould and fungi growth
- Thermal performance unaffected by moisture
- Increases existing insulation performance
- Unrolls and cuts easily
- Installs quickly, and easily with minimal effort

Applications:

- Vapor Barrier

Physical Properties	Test	Value
NOMINAL THICKNESS	—	0.011"
WEIGHT	—	0.42 oz / sq. ft.
FIRE RATING	ASTM E84-09	CLASS 2 / CLASS B
EMISSIVITY	ASTM C1371	0.03
REFLECTIVITY	ASTM C1371	0.97
WATER RESISTANCE	ASTM D779	PASSES
LINEAR SHRINKAGE	ASTM D1204	NONE
FLEXIBILITY	CAN/CGSB-51.33-M89	NO CRACKING
RESISTANCE TO FUNGI & BACTERIA	ASTM C1338-2000	DOES NOT PROMOTE GROWTH



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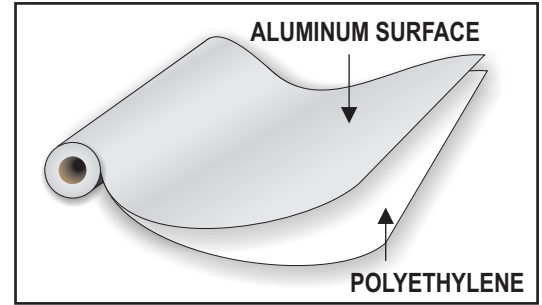
rFLEX™ RADIANT VAPOR BARRIER (RVB) (HOUSE WRAP)

TECHNICAL DATA

Product Description:

rFOIL™ Reflective House Wrap is a house wrap made up of a single layer aluminum surface laminated to a thick sheet of polyethylene for superior durability and performance. Reflective House Wrap helps in preventing water and air infiltration through residential wall assemblies, while at the same time allowing for the transmission of water vapor.

rFOIL™ Reflective House Wrap can increase the performance of existing wall insulation by up to 20%, while blocking up to 97% of radiant heat transfer. This translates into significant energy savings in terms of heating and cooling costs, in addition to providing a more comfortable living environment.



Stock Sizes Available (Rolls):

Size	54" X 200'
Part No.	3800-54-200P

Building Code Compliance:

rFOIL™ Reflective House Wrap is manufactured to meet the full intent of all major building codes.

Note: Good building practices include back priming of any porous siding before installation (such as wood, stucco, cement siding). We recommend that rFOIL™ RRR be covered as soon as practical to ensure its optimal performance as an air and moisture barrier.

Features:

- Made with a 97% reflective radiant barrier
- Thermal performance unaffected by moisture
- Increases existing insulation performance
- Inhibits mould and fungi growth
- Perm rating of 22
- Non-toxic & Non-carcinogenic
- Unrolls and cuts easily
- Insect and bird resistant
- Class 2/Class B fire rating
- Allows for breathability

Applications:

Reflective House Wrap is typically installed over wood or insulating sheathing, and under siding or other exterior coverings. It creates a protective barrier against air infiltration and unwanted liquid moisture. In addition to sealing out air, it is designed to allow damaging moisture to escape from inside the home or building.

Physical Properties	Test	Value
NOMINAL THICKNESS	—	0.011"
WEIGHT	—	0.42 oz / sq. ft.
FIRE RATING	ASTM E84-09	CLASS 2 / CLASS B
EMISSIVITY	ASTM C1371	0.03
REFLECTIVITY	ASTM C1371	0.97
WATER VAPOR PERMEABILITY	ASTM E96	22 Perms
TENSILE ELONGATION	ASTM D882-97	Machine Direction: 15 MPa
		Cross Direction: 16 MPa
TRAPEZOID TEARING	ASTM D1117	Machine Direction: 24 N
		Cross Direction: 27 N
WATER RESISTANCE	ASTM D779	0.4 kPa
AIR LEAKAGE RATE	TAPPI 460	3.5 sec./ 100 mL
BURST RESISTANCE	ASTM D751	110 kPa
LINEAR SHRINKAGE	ASTM D1204	NONE
PLIABILITY	CAN/CGSB-51.33-M89	NO CRACKING
RESISTANCE TO FUNGI & BACTERIA	ASTM C1338-2000	DOES NOT PROMOTE GROWTH

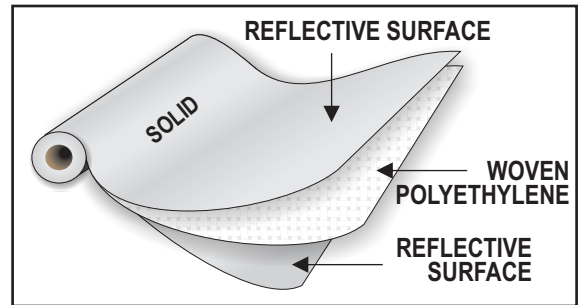


TECHNICAL DATA

Product Description:

rFOIL™ NT Radiant Barrier is a solid non-perforated sheet made up of a single layer of woven polyethylene bonded to (and sandwiched between) two highly reflective surfaces. NT helps reduce air conditioning costs in the summer while reducing heating costs in the winter.

In addition to energy savings, a radiant barrier can significantly enhance a home's level of comfort.



Stock Sizes Available (Rolls):

Size	48" X 125'	48" X 250'
Part No.	4800-48-125S	4800-48-250S

Features:

- Made with 96% reflective radiant barriers
- Unrolls and cuts easily
- Durable and flexible polyethylene
- Insect and bird resistant
- Class 1 / Class A fire rating
- Non-toxic & Non-carcinogenic
- Increases existing insulation performance

Applications:

- Radiant Barrier

Physical Properties	Test	Value
FIRE RATING	ASTM E84-09	CLASS 1 / CLASS A
EMISSION	ASTM C1371-04A	0.04
REFLECTIVITY	—	0.96
WATER VAPOR TRANSMISSION	ASTM E96-05	0.027 Perms
CORROSIVENESS	ASTM D3310-00	PASSES
BLEEDING and DELAMINATION	ASTM C1313-05	NO BLEEDING or DELAMINATION
PLIABILITY	ASTM C1313-05	NO CRACKING
GROWTH OF FUNGI	ASTM C1338-08	DOES NOT PROMOTE GROWTH
TENSILE STRENGTH	ASTM D2261	LENGTH: 27.34 lbs
		WIDTH: 16.31 lbs



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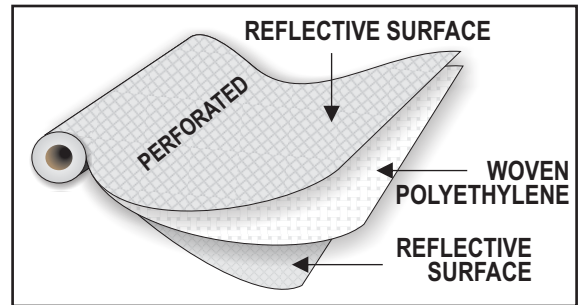
**NT RADIANT BARRIER
(FOR ATTICS)**

TECHNICAL DATA

Product Description:

rFOIL™ Standard NT radiant barrier is a perforated sheet made up of a single layer of woven polyethylene bonded to (and sandwiched between) two highly reflective radiant barrier sheets.

Standard NT helps reduce air conditioning costs in the summer while reducing heating costs in the winter. In addition to energy savings, a radiant barrier can significantly enhance a home's level of comfort.



Stock Sizes Available (Rolls):

Size	48" X 125'	48" X 250'
Part No.	4800-48-125P	4800-48-250P

Features:

- Made with 96% reflective radiant barriers
- Unrolls and cuts easily
- Durable and flexible polyethylene
- Insect and bird resistant
- Class 1 / Class A fire rating
- Non-toxic & Non-carcinogenic
- Increases existing insulation performance
- Allows for breathability

Applications:

- Attic Radiant Barrier

Physical Properties	Test	Value
FIRE RATING	ASTM E84-09	CLASS 1 / CLASS A
EMISSIVITY	ASTM C1371-04A	0.04
REFLECTIVITY	—	0.96
WATER VAPOR TRANSMISSION	ASTM E96-05	1.84 Perms
CORROSIVENESS	ASTM D3310-00	PASSES
BLEEDING and DELAMINATION	ASTM C1313-05	NO BLEEDING or DELAMINATION
PLIABILITY	ASTM C1313-05	NO CRACKING
GROWTH OF FUNGI	ASTM C1338-08	DOES NOT PROMOTE GROWTH
TENSILE STRENGTH	ASTM D2261	LENGTH: 27.34 lbs
		WIDTH: 16.31 lbs

Verified by

REFLECTIVE INSULATION MANUFACTURERS ASSOCIATION
US-006-50



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