

PRODUCT DATA SHEET



**INNOVATIVE
INSULATION**

Super R[®] Specifications

	SUPER R PLUS[®] H.D. (Best)	SUPER R PLUS[®] (Better)	SUPER R DIAMOND[®] (Good)	AG BARRIER[®]
PRODUCT	Two-sided reflecting metalized film with polyethylene woven reinforcement	Two-sided reflecting metalized film with polyethylene woven reinforcement	Two-sided reflecting metalized film with polyester scrim reinforcement	One side reflective, one side white film with polyethylene woven reinforcement
WEIGHT	32 lbs per 1000 sq ft roll	29.5 lbs per 1000 sq ft roll	14.5 lbs per 1000 sq ft roll	32 lbs per 1000 sq ft roll
TENSILE/TEAR STRENGTH	Length: 21.49 Pounds Force Width: 24.56 Pounds Force ASTM D2261	Length: 13.23 Pounds Force Width: 13.98 Pounds Force ASTM D2261	Length: 2.32 Pounds Force Width: 1.50 Pounds Force ASTM D2261	Length: 21.49 Pounds Force Width: 24.56 Pounds Force ASTM D2261
PLIABILITY	70°F±5°F & 50±5% Relative Humidity - No Cracking or Delamination ASTM C1313-05	70°F±5°F & 50±5% Relative Humidity - No Cracking or Delamination ASTM C1313-05	70°F±5°F & 50±5% Relative Humidity - No Cracking or Delamination ASTM C1313-05	70°F±5°F & 50±5% Relative Humidity - No Cracking or Delamination ASTM C1313-05
ADHESIVE PERFORMANCE	180°F±5°F & 50% Relative Humidity - No Bleeding or Delamination ASTM C1313-05	180°F±5°F & 50% Relative Humidity - No Bleeding or Delamination ASTM C1313-05	180°F±5°F & 50% Relative Humidity - No Bleeding or Delamination ASTM C1313-05	180°F±5°F & 50% Relative Humidity - No Bleeding or Delamination ASTM C1313-05
FLAME SPREAD & SMOKE	Class A/Class 1 0 Flame Spread, 5 Smoke Development ASTM Method E84-10	Class A/Class 1 0 Flame Spread, 5 Smoke Development ASTM Method E84-10	Class A/Class 1 0 Flame Spread, 10 Smoke Development ASTM Method E84-10	Class A/Class 1 0 Flame Spread, 5 Smoke Development ASTM Method E84-10
RESISTANCE TO FUNGI	PASS - No Growth ASTM C1338-08			
PERMEABILITY	5.88 Perms ASTM E96-05	6.29 Perms ASTM E96-05	9.6 Perms ASTM E96-05	6.29 Perms ASTM E96-05
TOTAL HEMISPHERICAL EMITTANCE	EMISSIVITY: 0.05 REFLECTIVITY: 95% ASTM C1371-04a			
THERMAL RESISTANCE VALUES*	HEAT FLOW DOWN:R-12.46 HEAT FLOW UP: R-2.17 HEAT FLOW HORIZONTAL: R-5.54	HEAT FLOW DOWN:R-12.46 HEAT FLOW UP: R-2.17 HEAT FLOW HORIZONTAL: R-5.54	HEAT FLOW DOWN:R-12.46 HEAT FLOW UP: R-2.17 HEAT FLOW HORIZONTAL: R-5.54	HEAT FLOW DOWN:R-12.46 HEAT FLOW UP: R-2.17 HEAT FLOW HORIZONTAL: R-5.54

Cavity R-values per the requirements of FTC 16 CFR Part 460 for intended applications for 50° F, with a temperature differential of 30° F. The R-value used for the Heat Flow Down is for a crawlspace application with the radiant barrier installed to the bottom of 2x4 joists and facing down into an air space below. The R-value used for the Heat Flow Up is for a sealed roof cavity installed to the bottom of 2x4 roof rafters at a 45° angle without a dead air space. The R-value for Heat Flow Horizontal is for a block wall assembly, as is common for a basement or garage, installed with 1x4 furring strips on both sides.

Please contact us if you need the R-value for your specific assembly or system.

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TempShield® Specifications

	TEMPSHIELD® SINGLE BUBBLE WHITE/FOIL	TEMPSHIELD® SINGLE BUBBLE DOUBLE FOIL	TEMPSHIELD® DOUBLE BUBBLE WHITE/FOIL	TEMPSHIELD® DOUBLE BUBBLE DOUBLE FOIL
PRODUCT	One layer of 1/8" barrier bubble film laminated between one layer of reflective metalized film and one layer of white polyethylene	One layer of 1/8" barrier bubble film laminated between two layers of reflective metalized film	Two layers of 1/8" barrier bubble film laminated between one layer of reflective metalized film and one layer of white polyethylene	Two layers of 1/8" barrier bubble film laminated between two layers of reflective metalized film
CONTACT TEMPERATURE RANGE	-60° F to 180° F (-51° C to 82° C)	-60° F to 180° F (-51° C to 82° C)	-60° F to 180° F (-51° C to 82° C)	-60° F to 180° F (-51° C to 82° C)
THICKNESS	1/8 Inch Nominal	1/8 Inch Nominal	1/4 Inch Nominal	1/4 Inch Nominal
WATER VAPOR TRANSMISSION	.02 Perms ASTM E96	.02 Perms ASTM E96	.02 Perms ASTM E96	.02 Perms ASTM E96
PUNCTURE RESISTANCE	60 lbs/in	60 lbs/in	60 lbs/in	60 lbs/in
PLIABILITY	No Cracking	No Cracking	No Cracking	No Cracking
LINEAR SHRINKAGE	None	None	None	None
MOLD AND MILDEW	No Growth	No Growth	No Growth	No Growth
FLAME SPREAD	0 ASTM E84-08	0 ASTM E84-08	0 ASTM E84-08	0 ASTM E84-08
SMOKE DEVELOPMENT	20 ASTM E84-08	25 ASTM E84-08	20 ASTM E84-08	40 ASTM E84-08
FIRE RATING	Class A/Class 1	Class A/Class 1	Class A/Class 1	Class A/Class 1

TempShield® R-values

	TEMPSHIELD® SINGLE BUBBLE WHITE/FOIL	TEMPSHIELD® SINGLE BUBBLE DOUBLE FOIL	TEMPSHIELD® DOUBLE BUBBLE WHITE/FOIL	TEMPSHIELD® DOUBLE BUBBLE DOUBLE FOIL
ATTIC - VENTED	Radiant Barrier Only	Radiant Barrier Only	Radiant Barrier Only	Radiant Barrier Only
DUCT/PIPE WRAP	N/A	R-4	N/A	R-6
CRAWL SPACE	N/A	R-16.3	N/A	R-16.8
METAL BUILDINGS**	R-1.8 Up R-7.1 Down R-2.2 Wall	R-4.6 Up R-11.9 Down R-5.6 Wall	R-2.3 Up R-7.6 Down R-2.7 Wall	R-5.1 Up R-12.4 Down R-6.1 Wall
POST FRAME BUILDINGS	R-1.8 Up R-5.1 Down R-2.2 Wall	R-6.4 Up R-14.6 Down R-6.4 Wall	R-2.3 Up R-5.6 Down R-2.7 Wall	R-6.9 Up R-15.1 Down R-6.9 Wall
RADIANT FLOORS	N/A	R-16.3	N/A	R-16.8
WALL - BASEMENT MASONRY	R-2.2	R-5.6	R-3.7	R-7.1
WALL - GARAGE	R-2.2	R-5.6	R-3.7	R-7.1
WALL - 2X6 STUD WITH R12 BATT***	N/A	N/A	N/A	R-19.56

Read This Before You Buy:

* At least a 3/4" air space is required on each foil side to achieve the R-values quoted.

** Depends on the interior of the metal building and sizes of the air spaces provided.

*** This application consists of TempShield® insulation and mass insulation. See installation instructions for more details.

What You Should Know About R-values

The chart shows the R-value of this 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 upon the climate, the type and size of your house, the amount of insulation already in your house, and your fuel use patterns and family size.

If you buy too much insulation, it will cost you more than what you'll save on fuel. To get the marked R-value, it is essential that this insulation be installed properly.