



Faced Metal Building Insulation Blanket

Description

Guardian laminated metal building insulation is a high-quality fiberglass blanket used for metal building applications.

Guardian Faced Metal Building Insulation:

- Reduces Energy Costs
- Helps Control Condensation
- Improves Noise Control
- Provides Enhanced Light Reflectance
- Can be left exposed

The recovered R-values of all faced Guardian metal building insulation products are guaranteed at time of installation. For complete warranty details visit www.silvercote.com.

Available Products

R-Value	Nominal Thickness	Widths
R-8	2.5"	36", 48", 60", 72"
R-10 Stock Item	3"	36", 48", 60", 72"
R-11	3 1/2"	36", 48", 60", 72"
R-12	3 1/2"	36", 48", 60", 72"
R-13 Stock Item	4"	36", 48", 60", 72"
R-16	5"	36", 48", 60", 72"
R-19 Stock Item	6"	36", 48", 60", 72"
R-20	6"	36", 48", 60", 72"
R-21	6 3/4"	36", 48", 60", 72"
R-25	8"	36", 48", 60", 72"
R-28	8"	36", 48", 60", 72"
R-30 Stock Item	9 1/2"	36", 48", 60", 72"

For additional R-values and thicknesses call for quote. Non-standard widths may also be available.

Application

Laminated fiberglass insulation is a widely used form of insulation for metal buildings. Guardian laminated fiberglass insulation blanket is used in a variety of installation methods; however, it is typically installed between the structural steel and sheeting. Hot melt adhesive lamination provides a smoother finish, allowing blanket to be installed with appropriate droop, while still providing a clean interior appearance.

Technical Data

*Fire hazard Classification: (Composite test of fiberglass adhesive and facing)**	Flame Spread <25 Smoke Developed <50
Corrosion Resistance:	Will not accelerate corrosion of steel or copper.
Resistance To Fungi And Bacteria:	Does not breed or promote fungi or bacteria growth.
Odor:	Commercially odorless.

*The above flame spread rating was determined in accordance with ASTM E 84. This standard is used solely to measure and describe properties of materials and products in response to heat and flame under controlled laboratory conditions. This numerical flame spread is not intended to reflect hazards presented by this or any other material under actual fire conditions.
 NOTE: Condensation blanket is NOT sold as a thermal barrier. The insulating value of the product is negligible and should NOT be utilized in conditioned or semi-conditioned buildings where thermal performance of any degree is required.

**Excludes white vinyl faced fiberglass.

Continued on back.



Compliance and Specification Data

ASTM E 84 - Surface Burning, ASTM C 167, ASTM C 991, ASTM C 553, ASTM C 665 Type II Class A, Type III Class A

Tolerances subject to normal manufacturing variations.

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Unfaced Metal Building Insulation Blanket

Description

GBP Silvercote's unfaced metal building insulation is a light density blanket of fiberglass. Its purpose is to add to the structure's thermal performance as a backfill insulation in various insulation systems or in combination with an interior layer of faced metal building insulation.

The recovered R-values of all unfaced GBP Silvercote metal building insulation products are guaranteed at time of installation. For complete warranty details visit www.silvercote.com.

Uses

Unfaced metal building insulation is designed for use on the roof or in the wall system of metal buildings.

Available Products

R-Value	Nominal Thickness	Widths
R-8	2.5"	36", 48", 60", 72"
R-10 Stock Item	3"	36", 48", 60", 72"
R-11	3 1/2"	36", 48", 60", 72"
R-12	3 1/2"	36", 48", 60", 72"
R-13 Stock Item	4"	36", 48", 60", 72"
R-19 Stock Item	6"	36", 48", 60", 72"
R-20	6"	36", 48", 60", 72"
R-21	6 3/4"	36", 48", 60", 72"
R-25	8"	36", 48", 60", 72"
R-28	8"	36", 48", 60", 72"
R-30 Stock Item	9 1/2"	36", 48", 60", 72"

GBP Silvercote unfaced metal building insulation is not intended to be laminated and sold as faced metal building insulation. It is sold as an economical layer of unfaced fiberglass roll blanket. Non-standard widths may also be available.

Technical Data

*Fire hazard Classification:	Flame Spread <5 Smoke Developed <20
Corrosion Resistance:	Will not accelerate corrosion of steel or copper.
Resistance To Fungi And Bacteria:	Does not breed or promote fungi or bacteria growth.
Odor:	Commercially odorless.

*The above flame spread rating was determined in accordance with ASTM E 84. This standard is used solely to measure and describe properties of materials and products in response to heat and flame under controlled laboratory conditions. This numerical flame spread is not intended to reflect hazards presented by this of any other material under actual fire conditions. Results are reported to the nearest five rating.

Compliance and Specification Data

ASTM E 84 - Surface Burning
 ASTM C 167
 ASTM C 653
 ASTM C 553
 ASTM C 665 Type I Class A

UL Label available upon request.
 Tolerances subject to normal manufacturing variations.

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GYM GUARD

POLYPROPYLENE / FIBERGLASS-POLYESTER BLEND FABRIC

FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
White Film	Metallized Polypropylene	0.0015 inch	38.1 micron
Adhesive	Flame Resistant		
Fabric	Fiberglass/Polyester Blend	75 lbs / 3000 ft ²	122 g / m ²

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	36 lbs / 1000 ft ²	176 g / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.02 perm (grains/hrft ² in Hg)	1.15 ng / N's
Bursting Strength	ASTM D774	250 psi	17.6 kg / cm ²
Puncture Resistance	ASTM C1136	650 beach units	19.4 Joules
Tensile Strength	ASTM C1136	195 lbs/inch width(MD) 150 lbs/inch width(XD)	34.1 kN / m (MD) 26.3 kN / m (XD)
Caliper / Thickness	Micrometer	0.007 inch	178 micron
Accelerated Aging	30 Days @ 95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790 -40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @ 240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0.25%	0.25%
Light Reflectance	ASTM C523	85%	85%

FIRE TESTING	ASTM E84 / UL 723		CAN ULC-S102M		 
	Film Side	Fabric Side	Film Side	Fabric Side	
Flame Spread	0	5	5	5	
Smoke Developed	30	40	30	40	

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

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WMP-50

POLYPROPYLENE / SCRIM / CORE / METALLIZED POLYESTER

Meets ASTM C1136, Type I, II, III, IV

FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
White Film	Polypropylene	0.0015 inch	38.1 micron
Adhesive	Flame Resistant		
Reinforcing	Tri-directional Fiberglass/Polyester	5 / inch (MD) 5 / inch (XD)	20 / 100 mm (MD) 20 / 100 mm (XD)
Core	Proprietary	30 lbs / 3000 ft ²	49 g / m ²
Adhesive	Polymeric		
Film	Metallized Polyester	0.0005 inch	12.7 micron

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	32 lbs / 1000 ft ²	156 g / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.02 perm (grains/hr·ft ² ·in Hg)	1.15 ng / N's
Bursting Strength	ASTM D774	120 psi	8.4 kg / cm ²
Puncture Resistance	ASTM C1136	125 beach units	3.7 Joules
Tensile Strength	ASTM C1136	65 lbs/inch width (MD) 60 lbs/inch width (XD)	11.4 kN / m (MD) 10.5 kN / m (XD)
Caliper / Thickness	Micrometer	0.010 inch	254 micron
Accelerated Aging	30 Days @ 95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790 -40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @ 240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0.25%	0.25%
Light Reflectance	ASTM C523	85%	85%

FIRE TESTING	ASTM E84 / UL 723		CAN ULC-S102M		BS 476 Class	 
	Polypropylene Side	Polyester Side	Polypropylene Side	Polyester Side		
Flame Spread	5	5	5	5	0	
Smoke Developed	30	20	30	20	Surface	

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

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WMP-10

POLYPROPYLENE / SCRIM / KRAFT

Meets ASTM C1136, Type II, IV

FACING COMPOSITION	DESCRIPTION	VALUES (ENGLISH)	VALUES (METRIC)
White Film	Metallized Polypropylene	0.0015 inch	38.1 micron
Adhesive	Flame Resistant		
Reinforcing	Tri-directional Fiberglass/Polyester	5 / inch (MD) 5 / inch (XD)	20 / 100 mm (MD) 20 / 100 mm (XD)
Kraft	White	14 lbs / 3000 ft ²	23 g / m ²

PHYSICAL PROPERTIES	TEST METHOD	VALUES (ENGLISH)	VALUES (METRIC)
Basis Weight	Scale	19 lbs / 1000 ft ²	93 g / m ²
Permeance (WVTR)	ASTM E96 Procedure A	0.02 perm (grains/hrft ² in Hg)	1.15 ng / N's
Bursting Strength	ASTM D774	65 psi	4.6 kg / cm ²
Puncture Resistance	ASTM C1136	125 beach units	3.7 Joules
Tensile Strength	ASTM C1136	40 lbs/inch width (MD) 35 lbs/inch width (XD)	7.0 kN / m (MD) 6.1 kN / m (XD)
Caliper / Thickness	Micrometer	0.009 inch	229 micron
Accelerated Aging	30 Days @ 95% RH, 120°F (49°C)	No Corrosion No Delamination	No Corrosion No Delamination
Low Temperature Resistance	ASTM D1790 -40°F (-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	4 hours @ 240°F (116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Water Immersion	24 hours @ 73°F (23°C)	No Delamination	No Delamination
Mold Resistance	ASTM C665 / C1338	No Growth	No Growth
Dimensional Stability	ASTM D1204	0.25%	0.25%
Light Reflectance	ASTM C523	85%	85%

FIRE TESTING	ASTM E84 / UL 723		CAN ULC-S102M		BS 476	 
	Film Side	Kraft Side	Film Side	Kraft Side	Class	
Flame Spread	10	15	15	15	0	
Smoke Developed	10	5	30	45	Surface	

Physical Properties based upon statistical averages, Weight / Thickness +/- 10%

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