



Data Sheet

BI-BWJM-DS-EC

07-17

JET STREAM[®] **MAX**

Glass Mineral Wool Blowing Insulation

- MAX-imum performance in attics and sidewalls
- Never settles – Consistent, reliable performance
- Convenient – One product, one inventory, two applications
- Sustainable – Contains a high degree of recycled content
- Fast & easy installation

Jet Stream® MAX Glass Mineral Wool Blowing Insulation

DESCRIPTION

Knauf Insulation Jet Stream® MAX Glass Mineral Wool Blowing Insulation is an unbonded, virgin fibrous glass blowing insulation designed with optimal thermal properties in addition to excellent coverage and blowing characteristics.

APPLICATION

Knauf Insulation Jet Stream MAX Glass Mineral Wool Blowing Insulation is installed in open attics of both new and existing structures and/or in closed cavity applications with the BIBS® system (Blow-in-Blanket System) in which ventilation is not required. Jet Stream MAX, when used in closed cavity applications is BIBS approved and can only be installed by BIBS certified installers to ensure the highest quality installed performance. Loose fill blowing insulation is intended for use where pneumatically installed insulation is most cost-effective.

PRODUCT FEATURES

Excellent Thermal Performance

- Fills all gaps and voids, creating a thermal barrier against outside air and better temperature control
- Resists heat flow with an R-value of:
 - R-15 in 2 x 4 construction
 - R-24 in 2 x 6 construction

Convenient

- One product, one inventory, two applications

Energy Conservation

- Reduces fuel usage and utility bills for heating and air conditioning

Sustainable

- Each bag contains a high degree of recycled glass content.
- Knauf Insulation's products used for thermal insulating purposes recover the energy that it took to make them in just hours or days, depending on the application. Once installed, the product continues to save energy and reduce carbon generation as long as it is in place.

Noise Reduction

- Improves Sound Transmission Class (STC) ratings by four to 10 points

Permanence

- Non-combustible, non-corrosive
- Will not rot, mildew or deteriorate

Easy Installation

- Blows fast and smooth

THERMAL PERFORMANCE

Jet Stream MAX Blowing Insulation provides you with a choice of R-values based on the installed thickness and installed weight per square foot. The tables to the right show the minimum requirements for obtaining the desired R-value.

The stated thermal resistance (R-value) is provided by installing the required number of bags per 1,000 sq. ft. of net area, at not less than the labeled minimum thickness (per the manufacturer's instructions). Failure to install both the required number of bags and at least the minimum thickness will result in lower insulation R-values.

Field blending of this product with other loose fill insulation or application of this product in conjunction with adhesive or binder systems may affect its thermal performance and is not recommended by the manufacturer.

Framing Adjustments

As shown in the table on the last page, to compensate for the framing members in open attic applications, the number of bags per 1,000 sq. ft. of area.

SPECIFICATION COMPLIANCE

- CCMC 13404-L; 13422-R
- ASTM C764; Type I
- HH-I-1030B; Class B

INDOOR AIR QUALITY

- UL Environment
 - GREENGUARD certified
 - GREENGUARD Gold certified
 - Formaldehyde-free

EQUIPMENT REQUIRED

To achieve labeled R-value, this product must be applied with a pneumatic blowing machine and a corrugated hose with a minimum ¼" internal corrugation, a minimum length of 150' and a diameter of at least 3". Coils in the hose should not be less than 36" in diameter. Acceptable material feed rate is 5-35 lbs./minute. The recommended feed rate is 15-25 lbs./minute. For closed cavity applications, netting must be applied.

PACKAGING

- Jet Stream MAX Blowing Insulation is packaged in a strong, white, sealed poly bag that offers excellent protection from abuse, dust and moisture.
- Knauf Insulation packages are lightweight, stack without slipping and are easy to handle and store.

GLASS MINERAL WOOL AND MOLD

Glass mineral wool insulation will not sustain mold growth. However, mold can grow on almost any material when it becomes wet and contaminated. Carefully inspect any insulation that has been exposed to water. If it shows any sign of mold it must be discarded. If the material is wet but shows no evidence of mold, it should be dried rapidly and thoroughly. If it shows signs of facing degradation from wetting, it should be replaced.

NOTES

The chemical and physical properties of Knauf Insulation Jet Stream MAX Blowing Insulation represent typical average values determined in accordance with accepted test methods. The data is supplied as technical service and is subject to change without notice. References to numerical flame spread ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

Check with your Knauf Insulation Territory Manager to ensure information is current.

Jet Stream MAX Coverage Chart — Attics

Thermal Resistance		Min. Installed Thickness		Min. Weight Per Unit Area		Max. Coverage Per Bag		Bags Per Unit Area	
RSI Value	R-Value*	(mm)	(in)	(kg/m ²)	(lbs/ft ²)	(m ²)	(ft ²)	100 m ²	1000 ft ²
1.4	R-8	72 mm	2.85"	0.61	0.125	23.8 m ²	256.7	4.2	3.9
1.8	R-10	93 mm	3.66"	0.78	0.160	18.5	199.6	5.4	5.0
2.1	R-12	109 mm	4.27"	0.91	0.187	15.9	171.1	6.3	5.8
2.8	R-16	145 mm	5.70"	1.22	0.249	11.9	128.3	8.4	7.8
3.5	R-20	181 mm	7.12"	1.52	0.311	9.5	102.7	10.5	9.7
4.2	R-24	217 mm	8.55"	1.82	0.374	7.9	85.6	12.6	11.7
4.9	R-28	253 mm	9.97"	2.13	0.436	6.8	73.3	14.7	13.6
5.3	R-30	274 mm	10.79"	2.30	0.471	6.3	67.8	15.9	14.7
5.6	R-32	290 mm	11.40"	2.43	0.498	6.0	64.2	16.8	15.6
6.3	R-36	326 mm	12.82"	2.74	0.560	5.3	57.0	18.9	17.5 ft ²
7.0	R-40	362 mm	14.25"	3.04	0.623	4.8	51.3	21.0	19.5
7.7	R-44	398 mm	15.67"	3.34	0.685	4.3	46.7	23.1	21.4
8.4	R-48	434 mm	17.10"	3.65	0.747	4.0	42.8	25.2	23.4
8.8	R-50	455 mm	17.91"	3.82	0.783	3.8	40.8	26.4	24.5
9.1	R-52	471 mm	18.52"	3.95	0.810	3.7	39.5	27.3	25.3
9.8	R-56	507 mm	19.95"	4.26	0.872	3.4	36.7	29.4	27.3
10.5	R-60	543 mm	21.37"	4.56	0.934	3.2	34.2	31.5	29.2

Jet Stream MAX Coverage Chart — Walls

Thermal Resistance		Min. Installed Thickness		Min. Weight Per Unit Area		Max. Coverage Per Bag		Bags Per Unit Area	
RSI Value	R-Value*	(mm)	(in)	(kg/m ²)	(lbs/ft ²)	(m ²)	(ft ²)	100 m ²	1000 ft ²
2.66	R-15	89 mm	3.50"	2.56	0.525	5.7	60.9	17.7	16.4
4.18	R-24	140 mm	5.50"	4.03	0.826	3.6	38.7	27.8	25.8
5.49	R-31	184 mm	7.25"	5.30	1.085	2.7	29.5	36.5	34.0
7.02	R-40	235 mm	9.25"	6.77	1.386	2.1	23.1	46.7	43.4
8.54	R-49	286 mm	11.25"	8.24	1.687	1.8	18.9	56.8	52.8
10.06	R-57	337 mm	13.25"	9.71	1.988	1.5	16.1	66.9	62.2

Design Density = 28.8 kg/m³ (1.8 lbs./ft³)

**"R" means resistance to heat flow. The higher the R-value, the greater the insulating power. To get the marked R-value, it is essential that this insulation be installed properly. If you do it yourself, get instructions and follow them carefully. Instructions do not come with this package.

Specifications: See C.C.M.C. Evaluation Listing 13404-L and Evaluation Report 13422-R. Complies with CAN/ULC S702.

Bag Net Weight Nominal 32 lbs. (14.5 kg.), Minimum 31 lbs. (14.0 kg.)

Technical Data

Property (Unit)	Test	Performance
Corrosion	ASTM C764	No greater than sterile cotton
Combustibility	ASTM E136	No temperature rise above 54° F (30° C)
Water Vapor Sorption (by weight)	ASTM C1104	5% maximum
Critical Radiant Flux	ASTM E970	Greater than 0.12 W/cm ²
Mold Growth	ASTM C1338	Pass
Surface Burning Characteristics (flame spread/smoke developed)	ASTM E84, CAN 4-S102.2	25/50

Jet Stream® MAX Glass Mineral Wool Blowing Insulation

Framing Adjustment—Open Attic Application

RSI Value	R-Value	Joist Size	Bag/100 SM 16 oc	Bag/MSF 16 oc	Bag/100 SM 24 oc	Bag/MSF 24 oc
1.4	R-8	2 x 4	3.7	3.4	3.9	3.6
		2 x 6	3.4	3.2	3.7	3.4
		2 x 8	3.2	3.0	3.5	3.3
1.8	R-10	2 x 4	4.9	4.6	5.1	4.7
		2 x 6	4.6	4.3	4.9	4.5
		2 x 8	4.4	4.1	4.7	4.4
2.1	R-12	2 x 4	5.8	5.4	6.0	5.5
		2 x 6	5.5	5.1	5.8	5.4
		2 x 8	5.3	4.9	5.6	5.2
2.9	R-16	2 x 4	7.9	7.3	8.1	7.5
		2 x 6	7.6	7.1	7.9	7.3
		2 x 8	7.4	6.9	7.7	7.2
3.5	R-20	2 x 4	10.0	9.3	10.2	9.4
		2 x 6	9.7	9.0	10.0	9.3
		2 x 8	9.5	8.8	9.8	9.1
4.2	R-24	2 x 4	12.1	11.2	12.3	11.4
		2 x 6	11.8	11.0	12.1	11.2
		2 x 8	11.6	10.8	11.9	11.1
4.9	R-28	2 x 4	14.2	13.2	14.4	13.3
		2 x 6	13.9	12.9	14.2	13.2
		2 x 8	13.7	12.7	14.0	13.0
5.3	R-30	2 x 4	15.4	14.3	15.6	14.4
		2 x 6	15.1	14.0	15.4	14.3
		2 x 8	14.9	13.8	15.2	14.1
5.6	R-32	2 x 4	16.3	15.1	16.5	15.3
		2 x 6	16.0	14.9	16.3	15.1
		2 x 8	15.8	14.7	16.1	15.0
6.3	R-36	2 x 4	18.4	17.1	18.5	17.2
		2 x 6	18.1	16.8	18.4	17.1
		2 x 8	17.9	16.6	18.2	16.9
7	R-40	2 x 4	20.5	19.0	20.6	19.2
		2 x 6	20.2	18.8	20.5	19.0
		2 x 8	20.0	18.6	20.3	18.9
7.7	R-44	2 x 4	22.6	21.0	22.7	21.1
		2 x 6	22.3	20.7	22.6	21.0
		2 x 8	22.1	20.5	22.4	20.8
8.4	R-48	2 x 4	24.7	22.9	24.8	23.1
		2 x 6	24.4	22.7	24.7	22.9
		2 x 8	24.2	22.4	24.5	22.8
8.8	R-50	2 x 4	25.9	24.0	26.0	24.2
		2 x 6	25.6	23.8	25.9	24.0
		2 x 8	25.4	23.6	25.7	23.9
9.1	R-52	2 x 4	26.8	24.9	26.9	25.0
		2 x 6	26.5	24.6	26.8	24.9
		2 x 8	26.3	24.4	26.6	24.7
9.8	R-56	2 x 4	28.9	26.8	29.0	27.0
		2 x 6	28.6	26.6	28.8	26.8
		2 x 8	28.4	26.3	28.7	26.7
10.5	R-60	2 x 4	31.0	28.8	31.1	28.9
		2 x 6	30.7	28.5	30.9	28.7
		2 x 8	30.5	28.3	30.8	28.6

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UL Environment GREENGUARD Certification Program

Jet Stream® MAX Glass Mineral Wool Blowing Insulation is certified to UL Environment GREENGUARD standards for low chemical emissions into indoor air during product usage.

UL Environment GREENGUARD Gold Certification Program

Knauf Insulation has achieved UL Environment GREENGUARD Gold Certification for Jet Stream® MAX Glass Mineral Wool Blowing Insulation.

UL Environment Validated Formaldehyde-Free

Knauf Insulation has achieved UL Environment validation that Jet Stream® MAX Glass Mineral Wool Blowing Insulation is formaldehyde free.

For more information, visit ul.com/spot



LEED Eligible Product

Use of this product may help building projects meet green building standards as set by the Leadership in Energy and Environmental Design (LEED) Green Building Rating System.

LEED v2009

MR Credit 4.1 - 4.2 Recycled Content
MR Credit 5.1 - 5.2 Regional Materials

LEED v4

Knauf Insulation offers several products for both envelope and mechanical systems that have ingredient disclosure and transparency. Please contact transparency@knaufinsulation.com for products that currently contribute to MR credits.

This product is covered by one or more U.S. and/or other patents. See patent www.knaufinsulation.us/patents.