



Data Sheet

BI-BWS-DS-EC

12-17

Knauf Insulation Sidewall Blowing Insulation

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DESCRIPTION

Knauf Insulation Sidewall 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 Sidewall Blowing Insulation is installed in closed cavity applications with the BIBS® system (Blow-in-Blanket System) in which ventilation is not required. Knauf Insulation Sidewall Blowing Insulation, 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

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

SPECIFICATION COMPLIANCE

- CCMC 13422-R
- ASTM C764; Type I
- HH-1-1030B; 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

- Knauf Insulation Sidewall 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 Sidewall 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.

Coverage Chart

Framing	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" x 4"	2.66	R-15	89 mm	3.50"	2.56	0.525	5.7	60.9	17.7	16.4
2" x 6"	4.18	R-24	140 mm	5.50"	4.03	0.826	3.6	38.7	27.8	25.8
2" x 8"	5.49	R-31	184 mm	7.25"	5.30	1.085	2.7	29.5	36.5	34.0
2" x 10"	7.02	R-40	235 mm	9.25"	6.77	1.386	2.1	23.1	46.7	43.4
2" x 12"	8.54	R-49	286 mm	11.25"	8.24	1.687	1.8	18.9	56.8	52.8
2" x 14"	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 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



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UL Environment GREENGUARD Certification Program
Knauf Insulation Sidewall 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 Knauf Insulation Sidewall Blowing Insulation.

UL Environment Validated Formaldehyde-Free
Knauf Insulation has achieved UL Environment validation that Knauf Insulation Sidewall 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.