

Jet Stream® Ultra Blowing Wool Insulation

Submittal Date _____



Product Provided

Jet Stream® Ultra Glass Mineral Wool Blowing Insulation

Knauf Insulation Jet Stream® Ultra Glass Mineral Wool Blowing Insulation is an unbonded, virgin fibrous glass blowing insulation designed with optimum thermal properties and excellent coverage and handling characteristics. When used in sidewall applications, Jet Stream Ultra fills all gaps and voids, creating a thermal barrier against outside air and better temperature control. Reference Jet Stream Ultra attic card for coverage and R-value information.

Jet Stream Ultra Blowing Insulation is installed in open attics of both new and existing structures and/or in closed cavity applications with the BIBS system (Blown-in-Blanket System) in which ventilation is not required. Jet Stream Ultra, 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 pneumatic installation is most cost-effective.

Specification Compliance

- ASTM C 764; Type I
- HH-I-1030B; Class B
- GREENGUARD Indoor Air Quality Certified®
- GREENGUARD GoldSM.
- Knauf Insulation Jet Stream Ultra Glass Mineral Wool Blowing Insulation has a high degree of recycled content.
- Meets the Quality Standards of the State of California.

Technical Data

Surface Burning Characteristics

- Does not exceed 25 Flame Spread, 50 Smoke Developed when tested in accordance with ASTM E 84 and CAN/ULC S102-M88.

Critical Radiant Flux (ASTM E 970)

- Greater than 0.12 W/cm².

Moisture Vapor Sorption (ASTM C 1104)

- 5% maximum by weight.

Corrosion (ASTM C 764)

- No greater than sterile cotton.

Microbial Growth (ASTM C 1338)

- Does not support microbial growth.

Non-Combustibility (ASTM E 136)

- No temperature rise above 54° F (30° C).

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. Recommended feed rate is 15-25 lbs./minute.

For closed cavity applications: Netting must be applied.

Thermal Performance

The stated thermal resistance (R-value) is provided by installing in accordance with the manufacturer's instructions. The required number of bags per 1,000 square feet of net area, at not less than the labeled minimum thickness. 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.

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.

Notes

Knauf Insulation is registered to ISO 9001:2008 in the prevention, detection and correction of problems in production and service areas. The chemical and physical properties of Knauf Insulation Blowing Insulation represent typical average values determined in accordance with accepted test methods. The data is subject to normal manufacturing variations. The data is supplied as a 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 assure information is current.

Open Attic Application					
R-Value*	Bags/1,000 SF	Maximum Coverage	Minimum Weight	Initial Installed Thickness	Minimum Settled Thickness**
To obtain an insulation resistance (R-value) of:	The number of bags/1,000 SF of net area should not be less than:	Contents of this bag should not cover more than:	The weight/SF of installed insulation should not be less than:	Installed insulation should not be less than:	Installed insulation should not be less than:
R-60	29.7	33.6 SF	.952 lbs.	19.750"	19.750"
R-49	23.5	42.5 SF	.753 lbs.	16.375"	16.375"
R-44	20.9	47.8 SF	.670 lbs.	14.875"	14.875"
R-38	17.8	56.2 SF	.569 lbs.	13.000"	13.000"
R-30	13.6	73.3 SF	.437 lbs.	10.375"	10.375"
R-26	11.8	85.0 SF	.377 lbs.	9.125"	9.125"
R-22	9.8	102.2 SF	.313 lbs.	7.750"	7.750"
R-19	8.4	119.3 SF	.268 lbs.	6.750"	6.750"
R-13	5.7	175.3 SF	.183 lbs.	4.750"	4.750"
R-11	4.7	210.8 SF	.152 lbs.	4.000"	4.000"

Bag Net Weight - Nominal 32 lbs., Minimum 31 lbs.

Coverage and installation data were determined using a Volu-Matic® II blowing machine in 3rd gear with 13" gate opening, 2.0 psi air pressure, 150' of 3" diameter internally-corrugated hose.

* "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.

**Based on a third party 2-year settling study, the predicted settlement over a 20-year period would be 1 percent or less. This amount of settling is thermally insignificant. Therefore, the installed and settled thicknesses are effectively the same.

Volu-Matic® II is a registered trademark of Unisul.

Cavity Wall Application chart on other side

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Cavity Wall Applications

Framing (in inches)	Cavity Depth (in inches)	R-Value* To obtain an insulation resistance of:	Density (cu. ft.)	Bags Per 1000 SF The number of bags per 1000 square feet of net area should not be less than:	Maximum Coverage Per Bag Contents of this bag should not cover more than:	Net Minimum Weight per SF The weight per square feet of installed insulation should not be less than:
2 x 4	3.50	R-15	1.8 lbs.	16.4 bags	61.0 sq. ft.	0.525 lbs.
2 x 6	5.50	R-23	1.8 lbs.	25.8 bags	38.8 sq. ft.	0.825 lbs.
2 x 8	7.25	R-31	1.8 lbs.	34.0 bags	29.4 sq. ft.	1.088 lbs.
2 x 10	9.25	R-39	1.8 lbs.	43.4 bags	23.1 sq. ft.	1.388 lbs.

* "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.



UL Environment GREENGUARD Gold

Knauf Insulation achieved UL GREENGUARD Gold Certification and is validated to be formaldehyde free.

UL Environment GREENGUARD Certification Program

Products are certified to UL GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg.