

Performance+ EcoFill®

Blowing Insulation

Product-Data-Sheet



Description

EcoFill® Wx blowing insulation is an unbonded, fiberglass blowing insulation with a high degree of recycled content, designed for weatherizing and retrofitting existing housing or new construction.

Application

- Open attics of new and existing structures
- Dense-pack sidewalls using the drill-and-fill technique

Specification Compliance

- ASTM C764; Type I
- HH-I-1030B; Class B Certified
- Meets the Quality Standards of the State of California

Contractor: _____

Job: _____

Date: _____

Indoor Air Quality

- **Asthma & Allergy Friendly®**
- Verified Healthier Air™
- UL Environment
 - GREENGUARD Certified
 - GREENGUARD Gold Certified
 - Validated to be Formaldehyde-Free
- EUCEB Certified

Certifications



Thermal Performance

The stated thermal resistance (R-value) is provided by installing the required number of bags per 1,000 square feet 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.

Fiberglass and Mold

Fiberglass 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.

Equipment Required

For pneumatic application only. This product is designed to be installed using appropriate machines with internally corrugated hose. The coils in the hose should not be less than 36" in diameter. The machine settings supplied by the manufacturer for this equipment should be used carefully in order to get optimum results. The equipment must be designed for fiberglass and has to have an effective shredding section, a controlled feed section and sufficient air volume to achieve the desired result. Feed rate of the material may be up to 60 lb./min.

Sustainability

We're proud to be putting glass bottles back to work rather than into landfills. Our products are made with an minimum of 50% recycled glass.

Technical Data

Property (Unit)	Test	Performance
Corrosion	ASTM C764	Pass
Critical Radiant Flux	ASTM E970	Greater than 0.12 W/cm ²
Combustibility	ASTM E136	Non-combustible
Water Vapor Sorption (by weight)	ASTM C1104	5% maximum
Mold Growth	ASTM C1338	Pass
Surface Burning Characteristics (flame spread/smoke developed)	ASTM E84, CAN/ULC S102, UL 723	25/50

Open Attic Insulation					
R-Value	Min. Bags/ 1,000 Sq. Ft.	Max. Coverage/Bag	Net Min. Weight/Sq. Ft.	Initial Installed Thickness	Min. Settled Thickness**
To obtain an insulation resistance of:	Number of bags per 1,000 square feet of net area should not be less than:	Contents of this bag should not cover more than:	Weight per square foot of installed insulation should not be less than:	Installed insulation should not be less than:	Installed insulation should not be less than:
R-11	5.3	188.4 sq. ft.	0.152 lb.	4"	4"
R-13	6.4	156.6 sq. ft.	0.183 lb.	4 ³ / ₈ "	4 ³ / ₈ "
R-19	9.4	106.6 sq. ft.	0.268 lb.	6 ³ / ₈ "	6 ³ / ₈ "
R-22	10.9	91.4 sq. ft.	0.313 lb.	7 ³ / ₈ "	7 ³ / ₈ "
R-26	13.2	75.9 sq. ft.	0.377 lb.	9 ¹ / ₈ "	9 ¹ / ₈ "
R-30	15.3	65.5 sq. ft.	0.437 lb.	10 ³ / ₈ "	10 ³ / ₈ "
R-38	19.9	50.2 sq. ft.	0.569 lb.	13"	13"
R-44	23.4	42.7 sq. ft.	0.670 lb.	14 ⁷ / ₈ "	14 ⁷ / ₈ "
R-49	26.3	38.0 sq. ft.	0.753 lb.	16 ³ / ₈ "	16 ³ / ₈ "
R-60	33.3	30.1 sq. ft.	0.952 lb.	19 ³ / ₄ "	19 ³ / ₄ "

Bag Net Weight - Nominal 28.6 lb., Minimum 27.6 lb.

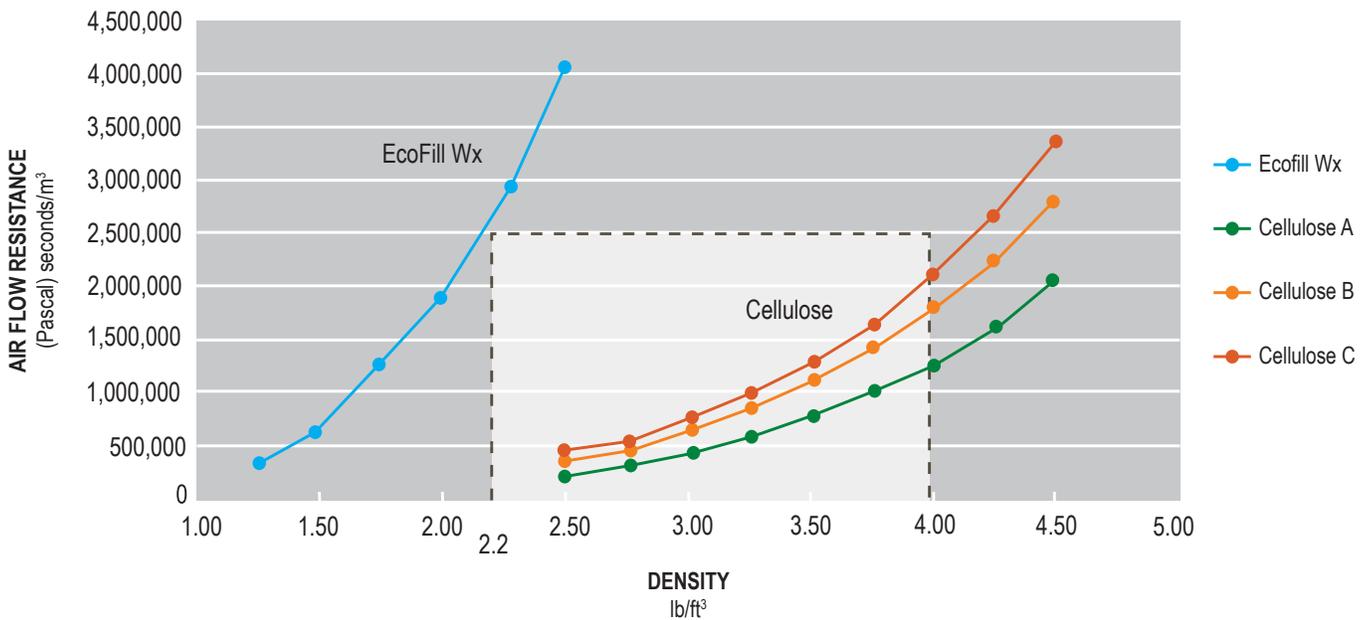
Coverage and installation data were determined using a Volu-Matic® III blowing machine in third gear with 13" gate opening, 2.5-3.0 PSI air pressure, 150' of 3" diameter internally-corrugated hose. Volu-Matic III is a registered trademark of CertainTeed Corporation.

**"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 Third Party 10-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.

Cavity Wall Application - Dense Pack						
Framing	Cavity Depth	R-Value	Density	Bags/ 1,000 Sq. Ft.	Max. Coverage/Bag	Net Min. Weight/Sq. Ft.
		To obtain a thermal resistance of:		Number of bags per 1,000 square feet of net area should not be less than:	Contents of this bag should not cover more than:	Weight per square foot of installed insulation should not be less than:
2" x 4"	3.50"	R-15	2.2 PCF	22.4 bags	44.6 sq. ft.	0.624 lb.
2" x 6"	5.50"	R-23	2.2 PCF	35.3 bags	28.4 sq. ft.	1.008 lb.
2" x 8"	7.25"	R-31	2.2 PCF	46.5 bags	21.5 sq. ft.	1.329 lb.
2" x 10"	9.25"	R-39	2.2 PCF	59.3 bags	16.9 sq. ft.	1.696 lb.

Air Flow Resistance vs. Density



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

The chemical and physical properties of this product represent 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.

This product is covered by one or more U.S. and/or other patents.

See patent www.knaufnorthamerica.com/patents

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