EcoBatt® Insulation

with ECOSE® Technology

DESCRIPTION

EcoBatt batt insulation is a cost-effective thermal and acoustical barrier for energy-efficient construction. Ecobatt insulation products can be used in new and retrofit wood and metal frame applications in residential, commercial and manufactured housing structures. High Density (HD) batts are available where optimal thermal performance is required and space is limited. Staple-Free batt insulation is flangeless kraft-faced batts that friction fit between 16" on center wood studs, eliminating the need to staple.

APPLICATIONS

 Cavity walls, exterior and partition walls, floors, ceilings, attics, basements and crawlspaces

SPECIFICATION COMPLIANCE

- ASTM C665 (facing);
 - Type I, Class A, (Unfaced)
 - Type II, Class C, Category 1 (Kraft)
 - Type III, Class A, Category 1 (FSK-25 foil)
 - Type III, Class B, Category 1 (Foil)
- California Energy Commission
- MEA #498-90-M
- · State of Minnesota

INDOOR AIR QUALITY

- UL Environment
 - GREENGUARD Certified
 - · GREENGUARD Gold Certified
 - Validated to be Formaldehyde-Free
- EUCEB Certified



CONTRACTOR:	
JOB:	
DATE:	

DOING MORE FOR THE WORLD WE LIVE IN.

Knauf Insulation products with ECOSE® Technology are made using our patented, bio-based binder - a smarter alternative to the phenol/formaldehyde (PF) binder traditionally used in fiberglass products. The bio-based binder holds our product together, gives the product its unique appearance and makes it formaldehyde-free.

All of our products are made from sustainable resources, such as recycled glass and sand. And we're proud to be putting glass bottles back to work rather than into landfills. Our products are made with a minimum of 50% recycled glass—totaling an average of 26 million bottles each month.

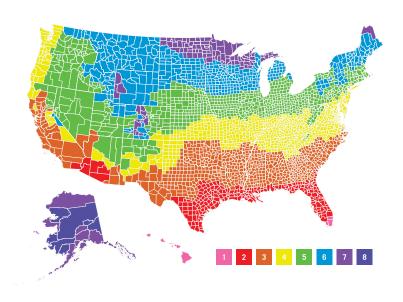


TECHNICAL DATA					
Property (Unit)	Test	Performance			
Corrosion	ASTM C1617	Pass			
Thermal Value	ASTM C518	See Forms Available chart			
Water Vapor Permeance	ASTM E96	Kraft Faced: 1.0 perms or less; FSK-25 and Foil Faced: 0.05 perms			
Water Vapor Sorption (by weight)	ASTM C1104	Less than 5%			
Combustibility	ASTM E136	Non-combustible (unfaced only)			
Mold Growth	ASTM C1338	Pass			
Surface Burning Characteristics (flame spread/smoke developed)	ASTM E84	Unfaced and flamed-rated FSK facings: 25/50 Kraft facing will burn and should not be left exposed.			

FORMS AVAILABLE Wood Frame Construction FSK-25 R-Value **Thickness** Unfaced Kraft Standard Foil Staple-Free R-11 31/2" 11"*, 151/4", 19", 231/4" 15"*, 23" R-13 31/2" 11"*, 15", 23" 11"*, 15"*, 23" 151/4" R-15 HD 31/2" 15"*, 23"* 15"*, 23"* 151/4" R-19 61/4" 12"*, 15", 151/4", 19"*, 231/4"* 11"*, 15"*, 19"*, 23" 151/4" R-20 51/2" 15"* 15"* _ R-21 HD 51/2" 15", 23" 15", 23" 151/4" 23"* 15"* R-22 61/2" R-23 HD 51/2" 15"* R-25 8" 16", 24" 15", 23"** R-30 16", 191/4", 24" 12"*, 16", 19"*, 24" 10" R-30 HD 81/4" 15"*, 23" 15"*, 23"* R-38 12" 16", 19"*, 24" 16", 19"*, 24" 101/4" 15"*, 23" R-38 HD 15", 23" 16"*, 24" 16"*, 19"*, 24"* R-49 13¾" **Metal Frame Construction** R-8 21/2" 16", 24" 16"*, 24"* 16"* R-11 31/2" 16", 24" 16"* 16"* 16", 24" 16"*, 24"* R-13 31/2" 16"* R-15 HD 31/2" 16"* 16", 24"* R-19 61/4" 16", 24" 16", 24"* 16"*, 24"* 16", 24"* 16"* R-21 HD 51/2" 16", 24" 16"* 16"* R-22 61/2" _ _ R-30 10" 24", 24" E.F.** 24"* R-38 12" 16"*, 24"* **Manufactured Housing Rolls** R-5 11/2" 15" 15", 16" 42", 48", 90", 96" R-7 21/4" 15", 48", 72", 84", 90"*, 96"* 15" R-11 31/2" 15"* R-13 31/2" 15" R-14 31/2" 72" 15", 48", 911/2"* R-19 61/4" 15", 23"* 84"* 7" R-22 _ _

HD = High Density, E.F. = Extended Flange

2012 International Energy Conservation Code Climate Zones



WALL INSULATION

Whenever exterior siding is removed on an:

- Uninsulated wood-frame wall:
 - Drill holes in the sheathing and blow insulation into the empty wall cavity before installing the new siding
- Zones 3–4:
 - Add R-5 insulative wall sheathing beneath the new siding.
- Zones 5–8:
 - Add R-5 to R-6 insulative wall sheathing beneath the new siding.
- Insulated wood frame wall, for Zones 4–8:
 - Add R-5 insulative sheathing before installing the new siding.

Reference: DOE/CE-0180 2008. Insulation Fact Sheet

NEW WOOD-FRAMED HOUSES							
Zone	Heating System		Cathedral Ceiling	Wall			
		Attic		Cavity	Insulation Sheathing	Floor	
1	AII	R-30 to R-49	R-22 to R-38	R-13 to R-15	None	R-13	
2	Gas, oil, heat pump	R-30 to R-60	-60 R-22 to R-38	R-13 to R-15	None	R-13, R-19, R-25	
2	Electric furnace						
3	Gas, oil, heat pump	D 20 L D 60	60 R-22 to R-38	R-13 to R-15	None	R-25	
3	R-30 to R-60	K-50 to K-60			R-2.5 to R-5		
4	Gas, oil, heat pump	R-38 to R-60	38 to R-60 R-30 to R-38	R-13 to R-15	R-2.5 to R-6	R-25 to R-30	
4	Electric furnace			K-13 t0 K-15	R-5 to R-6		
-	Gas, oil, heat pump	- R-38 to R-60	R-30 to R-38	R-13 to R-15	R-2.5 to R-6	R-25 to R-30	
5	Electric furnace		R-30 to R-60	R-13 to R-21	R-5 to R-6	R-25 to R-30	
6	All	R-49 to R-60	R-30 to R-60	R-13 to R-21	R-5 to R-6	R-25 to R-30	
7	All	R-49 to R-60	R-30 to R-60	R-13 to R-21	R-5 to R-6	R-25 to R-30	
8	All	R-49 to R-60	R-30 to R-60	R-13 to R-21	R-5 to R-6	R-25 to R-30	

EXISTING WOOD-FRAMED HOUSES						
Zone	Add Insula	Floor				
	Uninsulated Attic	Existing 3-4 Inches of Insulation	Floor			
1	R-30 to R-49	R-25 to R-30	R-13			
2	R-30 to R-60	R-25 to R-38	R-13 to R-19			
3	R-30 to R-60	R-25 to R-38	R-19 to R-25			
4	R-30 to R-60	R-38	R-25 to R-30			
5-8	R-49 to R-60	R-38 to R-49	R-25 to R-30			

ACOUSTICAL PERFORMANCE

EcoBatt insulation provides excellent acoustical properties and will reduce sound transmission when properly installed in partition walls and acoustical ceiling and floor systems. Knauf acoustical/thermal insulation can improve STC ratings in wood stud construction by 3 to 5 points and metal stud construction by 8 to 10 points depending upon the complexity of the wall configurations, R-values and layers of insulation.

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.

CERTIFICATIONS -















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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02-20

Visit knaufnorthamerica.com to learn more.

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