



Knauf Insulation Basement Wall Insulation

with ECOSE® Technology

INSULATION DESCRIPTION

Knauf Insulation Basement Wall Insulation is a glass mineral wool blanket laminated to a perforated facing that can be left exposed. It is also available unfaced for non-exposed areas such as crawlspaces.

ECOSE TECHNOLOGY DESCRIPTION

ECOSE Technology is a revolutionary, plant-based binder chemistry that enhances the sustainability of our products. The "binder" holds our glass mineral wool product together and gives the product its shape and brown color. ECOSE technology replaces the phenol/formaldehyde (PF) binder traditionally used in glass mineral wool products. Products using ECOSE technology are formaldehyde-free and have reduced global warming potential when compared to our products of the past.

APPLICATION

Basement wall insulation allows the walls to be insulated without the cost of framing or finishing the interior basement walls. It can be used in new construction or for retrofit in existing homes. It gives you the flexibility to apply the insulation either in a horizontal or vertical fashion, which allows for either half-wall or full-wall.

Perforated facing is recommended for the majority of basement wall applications. The perforations in the facing allow moisture to pass through the material, reducing the possibility of condensation and ensuring proper thermal performance.

BENEFITS

- Knauf Insulation Basement Wall Insulation can increase your home comfort year-round by reducing energy loss.
- Reduces noise levels where installed.
- The facing material reflects light which can help brighten your room.
- This product meets the IECC Code for a continuous R-value with a Class A Fire rating with no further modification. Please check with local code official for approval.

COMPLIANCE AND SPECIFICATION DATA

ASTM E84 FHC 25/50*

ASTM E136 (Non-Combustible, glass mineral wool only)

ASTM C665 Type I (Unfaced), Type II (White), Type III (Silver), All Class A

ASTM E96 Rating of facing for water vapor transmission: .30 perm or more (white or silver perforated)

ASTM C518 R-value of insulation only

*The ASTM E84 standard is used solely to measure and describe properties of materials and products in response to heat and flame under controlled laboratory conditions. This numerical flame spread is not intended to reflect hazards presented by this or any other material under actual fire conditions. Results are reported to the nearest five rating.

GENERAL PRODUCT INFORMATION

Standard Widths 48" and 88"

Available Facing Materials

- Polypropylene Scrim Kraft Facing (White) Perforated
- Foil Scrim Kraft Facing (Silver) Perforated



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R-VALUE INFORMATION

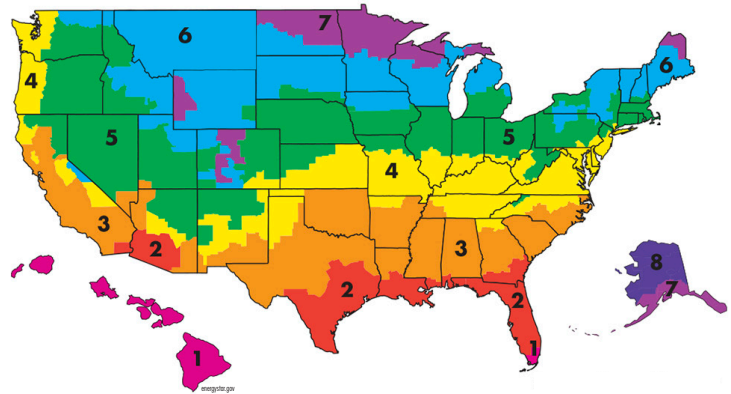
Insulation is specified by its thermal resistance or R-value. "R" means resistance to heat flow. The higher the R-value, the greater the insulating power.

The amount of insulation you need depends mainly on climate, type of heating (gas, oil, electricity) you use, and the area of the house you plan to insulate.

The U.S. Dept. of Energy has established minimum recommended insulation R-values for 7 distinct parts of the country, or insulation zones.

Find the R-Values for Your Zone

If you live on the border between two zones, choose the higher rather than the lower values.



Climate Zone	IECC - Basement Walls R-Values			
	2006 ^a	2009 ^b	2012 ^b	2015 ^b
1	0	0	0	0
2	0	0	0	0
3	0	5/13	5/13	5/13
4 EXCEPT MARINE	10/13	10/13	10/13	10/13
4 MARINE & 5	10/13	10/13	15/19	15/19
6	10/13	15/19	15/19	15/19
7 8	10/13	15/19	15/19	15/19

a. The first R-Value applies to continuous insulation, the second to framing cavity insulation; either insulation meets the requirement.

b. "15/19" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulated sheathing on the interior or exterior of the home. "10/13" means R-10 continuous insulated sheathing on the interior or exterior of the home or R-13 cavity insulation at the interior of the basement wall.



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

UL Environment GREENGUARD Certification Program
Products are certified to UL Environment GREENGUARD standards for low chemical emissions into indoor air during product usage.

For more information, visit ul.com/gg.



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.
MR Credit 4.1 - 4.2 Recycled Content

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

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