



Basement Wall Insulation with ECOSE® Technology

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 crawl spaces.

ECOSE TECHNOLOGY

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 interior basement walls to be insulated without the cost of framing or finishing them. 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.

PRODUCT 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.

GENERAL PRODUCT INFORMATION

R-Value R-11

Standard Widths 48" and 88"

Available Facing Materials

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

INSTALLATION

Half-wall application

1. Secure a 2"x2" furring strip horizontally to the side of the sill plate at the top of the wall to be insulated.
2. Fasten a second furring strip horizontally beneath the first one by the width of the insulation being installed.
3. Roll the insulation out on the floor cutting it to the length.

4. Place the insulation between the furring strips and fasten the facing flanges to the 2"x2" at top and bottom, making sure the facing is on the exposed side.

Full-wall 2-piece application

5. Follow Steps 1-2 for Half-wall application.
6. Nail another furring strip horizontally approximately 1" above the floor. You will now have a top middle and bottom nailing strips in place.
7. Cut insulation to length and fasten insulation to the furring strips in both the top and bottom sections.

Note

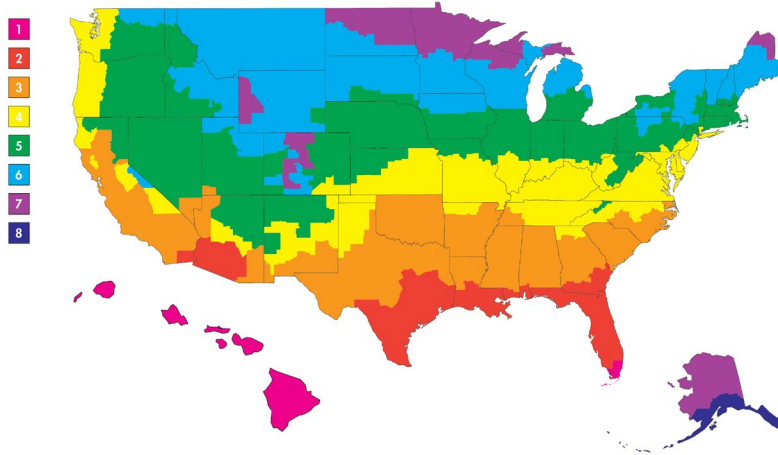
Trimming of the second or bottom insulation section may be needed to fit between the lower furring strips to accommodate for any variations on site.

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Technical Data

Property (Unit)	Test	Performance
Corrosiveness	ASTM C665	Type I (Unfaced), Type II (White), Type III (Silver), All Class A
Thermal Value	ASTM C518	R-Value of insulation only
Combustibility	ASTM E136	Non-combustible (Insulation)
Water Vapor Permeance	ASTM E96	0.1 perm or more (facings)
Surface Burning Characteristics (flame spread/smoke developed)	ASTM E84*	25/50

*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.



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	R-5/R-13	R-5/R-13	R-5/R-13
4 Except Marine	R-10/R-13	R-10/R-13	R-10/R-13	R-10/R-13
4 Marine & 5	R-10/R-13	R-10/R-13	R-15/R-19	R-15/R-19
6	R-10/R-13	R-15/R-19	R-15/R-19	R-15/R-19
7 8	R-10/R-13	R-15/R-19	R-15/R-19	R-15/R-19

^aThe first R-value applies to continuous insulation, the second to framing cavity insulation; either insulation meets the requirement.

^b"R-15/R-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.

"R-10/R-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 Certification Program
Basement Wall 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 Basement Wall Insulation.

UL Environment Certified EPD
Knauf Insulation has achieved an Environmental Product Declaration certification from UL Environment for Basement Wall Insulation. EPD Certification is documentation fully disclosing a product's environmental impact.

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.

Knauf Insulation
One Knauf Drive
Shelbyville, IN 46176
www.knaufinsulation.us

(800) 825-4434
Sales ext. 8485
Technical Support ext. 8727
info.us@knaufinsulation.com

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

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