



Performance+®

Basement Wall Insulation with ECOSE® Technology

Product-Data-Sheet

Description

Performance+® Basement Wall Insulation is a fiberglass blanket laminated to a perforated facing that can be left exposed. It is also available unfaced for non-exposed areas such as crawl spaces. It gives you the flexibility to apply the insulation horizontally or vertically, 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.

Application

- New construction or for retrofit in existing homes

Specification Compliance

- ASTM C665
 - Type II, Class A, Category II
- IECC Code for a continuous R-value with a Class A Fire rating with no further modification

Indoor Air Quality

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

Certifications



The Asthma & Allergy Friendly® Certification Mark is a Registered Certification Mark of the Asthma Allergy Foundation of America (AAFA) and Allergy Standards Ltd (ASL). Verified Healthier Air™ is a trademark of Airmid Healthgroup. USGBC® and the related logo are trademarks owned by the U.S. Green Building Council® and are used with permission.

Contractor: _____

Job: _____

Date: _____

Forms Available

R-Value	Dimensions	Facing
R-11	3 1/2" x 48" x 60'	PSK Perforated (White)
R-15	4 1/4" x 48" x 40'	
R-11	3 1/2" x 48" x 90'	Unfaced
	3 1/2" x 88" x 90'	

Technical Data

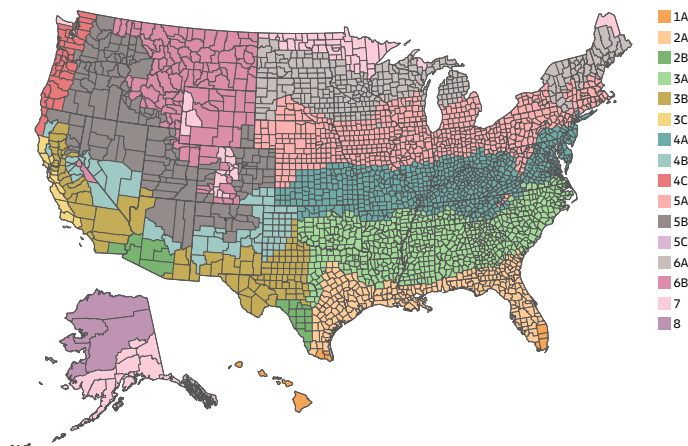
Property (Unit)	Test	Performance
Corrosiveness	ASTM C665	Does not accelerate corrosion of steel
Thermal Value	ASTM C518	R-11, R-15
Combustibility	ASTM E136	Non-combustible (insulation only)
Surface Burning Characteristics (flame spread/smoke developed)	ASTM E84*	25/50

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

Climate Zone Map for IECC 2024



INSTALLATION

Half-wall application

- Secure a 2" x 2" furring strip horizontally to the side of the sill plate at the top of the wall to be insulated.
- Fasten a second furring strip horizontally beneath the first one by the width of the insulation being installed.
- Roll the insulation out on the floor cutting it to the length.
- Place the insulation between the furring strips and fasten the facing flanges to the 2" x 2" at top and bottom, making sure the facing is on the exposed side.

Full-wall 2-piece application

- Follow first two steps of half-wall application.
- Nail another furring strip horizontally approximately 1" above the floor.
- Cut insulation to length and fasten insulation to the furring strips at the top and bottom of both insulation 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.

Climate Zone	IECC - Basement Walls R-Values			
	2009 ^a	2015/18 ^b	2021 ^b	2024 ^b
1A	0	0	0	0
2A 2B	0	0	0	0
3A 3B 3C	R-5/R-13	R-5/R-13	R-5/R-13	R-5/R-13
4A 4B 4C	R-10/R-13	R-10/R-13	R-10/R-13	R-10/R-13
5A 5B 5C	R-10/R-13	R-10/R-13	R-15/R-19 or R-13 + R-5	R-15/R-19 or R-13 + R-5
6A 6B	R-15/R-19	R-15/R-19	R-15/R-19 or R-13 + R-5	R-15/R-19 or R-13 + R-5
7 8	R-15/R-19	R-15/R-19	R-15/R-19 or R-13 + R-5	R-15/R-19 or R-13 + R-5

a. The 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.

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

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.

Consult with or follow local building and energy codes to determine appropriate R-values and need for and placement of a vapor retarder.

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

See patent www.knaufnorthamerica.com/patents

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