GUARDIAN BUILDING PRODUCTS

LOOSE-FILL FIBERGLASS INSULATION NETTING SYSTEM

FOR WALLS, CEILINGS and FLOORS

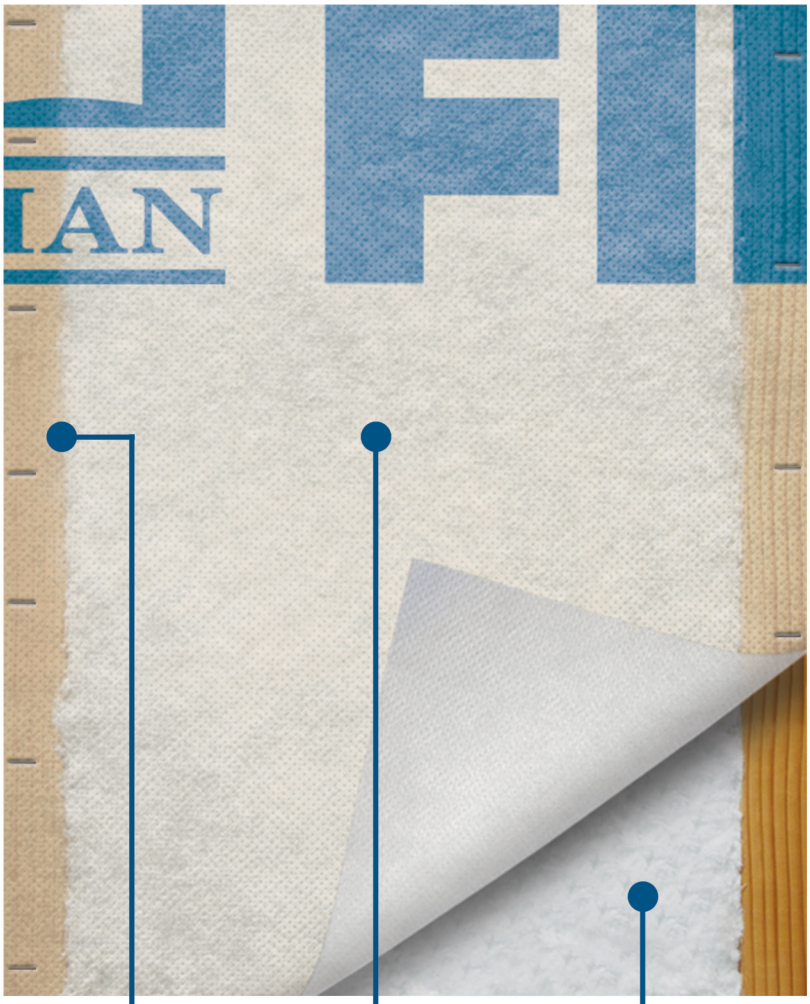
GUARDIAN PERFECT FILL®

GREENGUARD Children & Schools Indoor Air Quality Certified

U.S. Green Building Council Member

Seal and Insulate with ENERGY STAR

The Loose-Fill Netting System For Walls, Ceilings and Floors



Staple spacing about 1-1/2". Manual or pneumatic staple gun.

Perfect Fill branded spun-bonded netting* provides a smooth finish.

A complete cavity fill regardless of size or obstructions.

*ROLL DIMENSIONS: 50" X 600' • 100" X 600' • 110" X 600' • 122" X 600'

BENEFITS OF USING PERFECT FILL® INSULATION WITH THE SYSTEM

Larger bag - more pounds per bag

Greater coverage per bag - 50 ft² (R-15 2 X 4) • 23 ft² (R-23 2 X 6)

Shorter fibers install faster

Smoother finished appearance

Wall, ceiling and floor applications

Virtually eliminates all gaps and voids

No Formaldehyde added

Excellent sound control properties

Improved thermal performance (R-values)

Typically 2-3 times more fiberglass in the walls, ceilings or floors compared to standard building insulation

Reduced air infiltration

Non-flammable / Non-combustible

Non-corrosive

BAG WEIGHT: 32 lbs.

PERFECT FILL® SYSTEM COVERAGE CHART WITH

R-VALUE	THICKNESS (INCHES)	FRAMING	DENSITY LB./FT²	BAGS PER 1000 FT²	MIN. WT. PER FT²	MAX. COV. FT² PER BAG
R-15	3.50	2x4	2.2	20	0.64	50
R-23	5.50	2x6	2.2	32	1.01	32
R-31	7.25	2x8	2.2	42	1.33	24
R-39	9.25	2x10	2.2	53	1.70	19
R-50	11.875	Eng. I-Joist	2.2	68	2.18	15
R-60	14.00	Eng. I-Joist	2.2	80	2.57	12
R-68	16.00	Eng. I-Joist	2.2	92	2.93	11

The Perfect Fill® System is Guardian's premium loose-fill fiberglass insulation combined with a heavy-duty, spun bond netting to create a perfect R-value wherever you need it - walls, ceilings and floors.

Easy mesh netting installation also creates a smooth finished appearance after product installation.

Because of its installed density, Perfect Fill reduces the potential for air infiltration by completely filling small and odd-shaped cavities.

Perfect Fill is the ideal product to properly and effectively insulate vaulted ceilings and sloped roofs.

Use Perfect Fill in floors and interior walls to control undesirable noise transfer within the home.

BENEFITS OF USING ATTICGUARD® PLUS INSULATION WITH THE SYSTEM

Wall, ceiling and floor applications

Virtually eliminates all gaps and voids

No Formaldehyde added

Excellent sound control properties

Improved thermal performance (R-values)

Smoother finished appearance

Typically 2-3 times more fiberglass in the walls, ceilings or floors compared to standard building insulation

Reduced air infiltration

Non-corrosive

Non-flammable

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PERFECT FILL® SYSTEM COVERAGE CHART WITH

R-VALUE	THICKNESS (INCHES)	FRAMING	DENSITY LB./FT²	BAGS PER 1000 FT²	MIN. WT. PER FT²	MAX. COV. FT² PER BAG
R-15	3.50	2x4	2.2	20	0.64	51
R-23	5.50	2x6	2.2	30	1.01	33
R-31	7.25	2x8	2.2	40	1.33	25
R-39	9.25	2x10	2.2	53	1.70	19
R-50	11.875	Eng. I-Joist	2.2	67	2.18	15
R-60	14.00	Eng. I-Joist	2.2	77	2.57	13
R-68	16.00	Eng. I-Joist	2.2	91	2.93	11

TECHNICAL DATA FOR THE PERFECT FILL® SYSTEM

(FOR PERFECT FILL® AND ATTIC GUARD® PRO FIBERGLASS INSULATION PRODUCTS)

ASTM C764 requirements include the following test methods:

Thermal resistance values determined in accordance with ASTM C518
Surface burning characteristics in accordance with ASTM E84 (Flame spread index of <25 • Smoke developed <50)
Non-combustible as determined by ASTM E-136 • Non-corrosive • Water vapor sorption - ASTM C1104
Inorganic- does not promote fungus growth in accordance with ASTM C1338

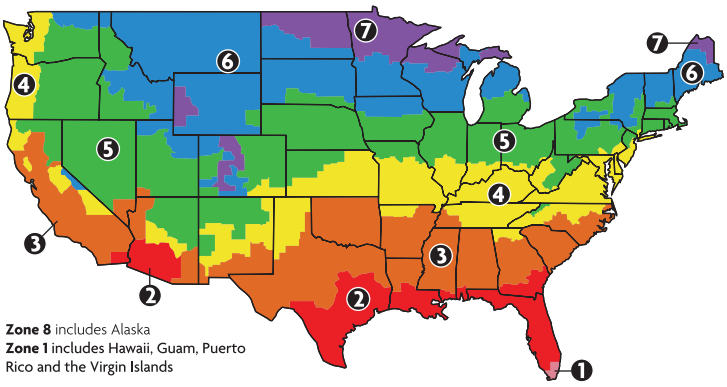
R-VALUE INFORMATION

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 8 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.



Zone 8 includes Alaska
Zone 1 includes Hawaii, Guam, Puerto Rico and the Virgin Islands

R-VALUES FOR NEW WOOD-FRAMED HOUSES

Insulation Zone	Heating System	Attic	Cathedral Ceiling	Wall		Floor
				Cavity	Insulation Sheathing	
1	All	R-30 to R-49	R-22 to R-28	R-13 to R-15	None	R-13
2	Gas, Oil, Heat Pump, Electric Furnace	R-30 to R-60	R-22 to R-38	R-13 to R-15	None	R-13 R-19 to R-25
3	Gas, Oil, Heat Pump, Electric Furnace	R-30 to R-60	R-22 to R-38	R-13 to R-15	None R-2.5 to R-5	R-25
4	Gas, Oil, Heat Pump, Electric Furnace	R-38 to R-60	R-30 to R-38	R-13 to R-15	R-2.5 to R-6 R-5 to R-6	R-25 to R-30
5	Gas, Oil, Heat Pump, Electric Furnace	R-38 to R-60	R-30 to R-38 R-30 to R-60	R-13 to R-15 R-13 to R-21	R-2.5 to R-6 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 & 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

R-VALUES FOR EXISTING WOOD-FRAMED HOUSES

Insulation Zone	Add Insulation To Attic		Floor
	Uninsulated Attic	Existing 3-4 Inches Of Insulation	
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-38 to R-60	R-38	R-25 to R-30
5	R-49 to R-60	R-38 to R-49	R-25 to R-30
6	R-49 to R-60	R-38 to R-49	R-25 to R-30
7 & 8	R-49 to R-60	R-38 to R-49	R-25 to R-30

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:
- Zones 4 to 8; Add R-5 insulative sheathing before installing the new siding.

Guardian Fiberglass – for your health.

Indoor air quality is a growing concern with today's tighter construction practices for homes and buildings. And most people spend about 90% of their time indoors where, according to the U.S. EPA, "thousands of chemicals and biological pollutants are found", thus negatively affecting our health. That is why Guardian Fiberglass has made a point to achieve the highest possible product certification – Greenguard Certification. Greenguard certified products can significantly reduce the existence of hazardous emissions and promote a healthy home environment. Guardian Fiberglass products are tested and certified to meet the tough Greenguard™ IAQ standards.

Children & Schools GREENGUARD® Indoor Air Quality Certified

Seal and Insulate with ENERGY STAR
LEARN MORE AT energystar.gov

Guardian is proud to be an ENERGY STAR partner offering proven energy saving products to the marketplace. Because of this partnership, Guardian Fiberglass Insulation helps businesses and homeowners save money on energy bills year after year.

The U.S Green Building Councils LEED (Leadership in Energy and Environmental Design) Green Building Rating System is a voluntary standards and certification program that defines high-performance green buildings – which are more environmentally responsible, healthier and more profitable structures.

U.S. GREEN BUILDING COUNCIL MEMBER

To inquire about this product, contact Guardian Fiberglass at 1-800-245-5784 or visit www.guardianbp.com or email at info@bp.guardian.com.

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