Pure Safety® High Performance Insulation

Description

Pure Safety® insulation is an unfaced, 3½" thick x 15" wide x 93" long mineral fiber, high performance building insulation designed to contribute to a safer and healthier home.

Pure Safety® insulation provides three main high performance attributes:

1. Pure Safety® insulation is certified **asthma & allergy friendly™** by the Asthma and Allergy Foundation of America, a good choice when considering the indoor air quality of your home.
2. Pure Safety® insulation is fire resistant, helping to provide valuable extra minutes in the event of a fire.
3. Pure Safety® insulation helps to reduce and control the spread of noise throughout your home. Designed to effectively absorb and reduce noise levels across a broad range of sound frequencies, Pure Safety® insulation offers a new higher level of noise control for your family.

Uses

The safe, high performance attributes of Pure Safety® insulation offers peace of mind knowing that added fire, air, sound, and thermal performance is available in every installation. Pure Safety® insulation offers beneficial use in your home's interior walls, floors, ceilings, and attic applications.

Technical Data

Material	Bag Coverage	Batt Size
Unfaced Mineral Fiber Batts	48.4 sq.ft./bag	15" width x 93" length x 3½" thick

Performance Attribute	Classification/Test Method	Nominal Value / Results
Air Quality	Building Insulation asthma & allergy friendly™ Certified	Certified (Pass)
Surface Burning Characteristics	ASTM E84	Flame Spread: 0 Smoke Development: 0 (Class A Fire Rated)
Noise Control - Sound Absorption	ASTM C423	NRC: 1.20
Noise Control - Sound Transmission Loss of Building Partitions	ASTM E-90 Transmission Loss	Single Layer ⅝" Type X Gypsum-Both Sides 2x4 Wood Framing, 16" oc 3.5" Pure Safety® Insulation Resilient Channel, 24" oc STC- 49
Building Code Construction Classification	ICC/ICBO/BOCA/ SBCCI	All Types
Test Method To Determine Combustibility	ASTM E136	Non-Combustible (Pass)
Smolder Resistance	CAN/ULC S129	0.2 (Pass)
Mold Resistance Testing	ASTM C1338	No Mold Growth (Pass)
Thermal Resistance	ASTM C518	R-15
Corrosion	ASTM C665 (Steel, Copper, Aluminum)	Non-Corrosive (Pass)
GREENGUARD Indoor Air Quality Certification		Certified

Features

asthma & allergy friendly™

Approved by the **asthma & allergy friendly™** Certification Program, Pure Safety® insulation has been scientifically tested and identified as a consumer product that is more suitable for people with asthma and allergies. Administered by the Asthma and Allergy Foundation of America, Pure Safety® insulation is the first building insulation of its kind to receive the **asthma & allergy friendly™** label. Pure Safety® insulation is resistant to mold growth as tested per ASTM C1338.

Fire Control

- Pure Safety® insulation is formulated and fire tested to be fire resistant. The Surface Burning Characteristics of Pure Safety® insulation when tested in accordance to ASTM E84 achieves the lowest Flame Spread and Smoke Development ratings possible: 0/0. It is classified non-combustible per ASTM E136, and is UL labeled and can be used in specified load and non-load bearing fire-rated assemblies.

Noise Control

- Designed to achieve superior sound absorption and noise control properties, Pure Safety® insulation, has been tested in accordance to ASTM C423 for sound absorption and ASTM E90 for the control of noise in walls, floors, ceilings and floor assemblies. Test results confirm excellent sound absorption coefficients when compared to conventional acoustic sound batts as shown in Graph 1. The Noise Reduction Coefficient (NRC) rating achieves a 1.20, see Table 1. The noise control performance of Pure Safety® insulation can reduce perceived noise levels by up to 50%.

Thermal Control

- Reducing your home's energy cost is important. Pure Safety® insulation offers the comfort and flexibility to be installed throughout your home (walls, floors, ceilings and attics). At only 3½" thick, Pure Safety® insulation offers the highest R-value in its class with an R-15 rating.

Air Quality

- Pure Safety® insulation is UL GREENGUARD GOLD Certified for its low VOC emissions, is UL Validated Formaldehyde Free, is a bio-based product and meets USDA BioPreferred® guidelines, and achieves a certified minimum average recycle content of 65% by Scientific Certifications Systems.

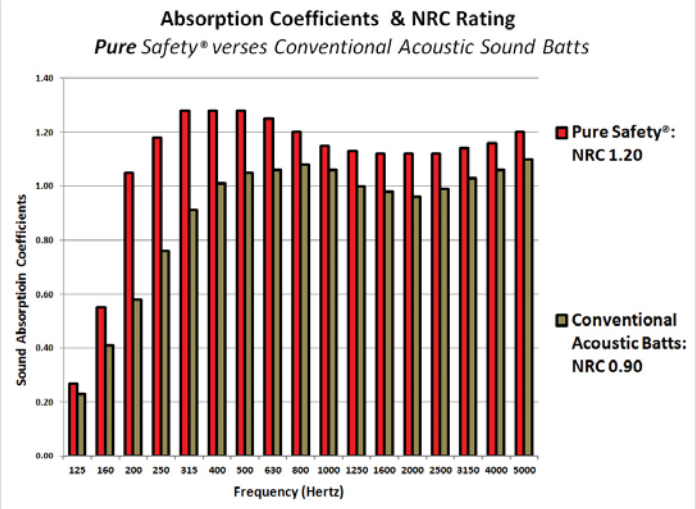
Summary of Features

- Certified **asthma & allergy friendly™**
- Up to 65% less dust
- Mold & mildew resistant
- Fire resistant – UL rated
- Up to 50% reduction in noise levels
- Complies with ICC code – all types
- Non-combustible
- Smolder resistant
- Energy efficient R-15 value
- Handles, installs and cuts easily
- Friction fits & will not slump in wall cavities
- Excellent stiffness & recovery characteristics
- Dimensionally stable
- Durable & will not crumble
- Single 93" long batts fills most wall cavities in a single step
- Non-corrosive to steel, copper, and aluminum

Table 1: Sound Absorption Coefficients for Pure Safety® Insulation and Conventional Acoustic Sound Batts

Thickness (in)	Acoustical Sound Absorption Coefficients -ASTM C423 Sound Absorption Coefficients by Frequencies (Hz)					
	250	500	1000	2000	4000	NRC
Owens Corning Pure Safety® insulation 3.5"	1.18	1.28	1.15	1.12	1.16	1.20
Conventional Acoustic Sound Batts 3.5"	0.76	1.05	1.06	0.96	1.06	0.90

Graph 1: Noise Reduction Coefficients (NRC) between Pure Safety® and Conventional Acoustic Sound Batts



Applications

Pure Safety® High Performance Insulation is manufactured in compliance with ASTM Standard Specification C665 and is classified noncombustible per ASTM E136. The thermal resistance values of Pure Safety® insulation High Performance Insulation were tested in accordance to ASTM C518; R-value for insulation.

The surface burning characteristics of Pure Safety® insulation High Performance Insulation was tested in accordance to ASTM E84. This standard is used solely to measure and describe properties of products in response to heat and flame under controlled laboratory conditions, and should not be used to describe or approve the fire hazard or materials under actual fire conditions. However, the results of these tests may be used as elements of a fire risk assessment that takes into account all of the factors pertinent to an assessment of the fire hazard of a particular end use. Values are reported to the nearest five rating.

Installation

- Pure Safety® insulation is easy to handle, cut, and install. It will not crumble or fall apart during handling or installation and can be cut and trimmed using a standard utility knife.
- Pure Safety® insulation can be friction fitted between 16" on center wood studs[1] and can easily be separated to enclose electrical wiring and most plumbing lines making installations simple and quick. Use wire or metal straps to hold insulation in overhead applications without a cover material or where insulation does not fill the depth of the cavity.
- When installing Pure Safety® insulation within the exterior envelope of your home, check your local building codes for use and location of a vapor barrier.

1. **Pure** Safety® insulation may be installed in other framing types and may require additional cutting.
   This product should be installed in accordance with applicable building codes.

Environmental and Sustainability

Owens Corning is a worldwide leader in building material systems, insulation and composite solutions, delivering a broad range of high-quality products and services. Owens Corning is committed to driving sustainability by delivering solutions, transforming markets and enhancing lives. More information can be found at www.owenscorning.com.

Notes

For additional information, refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via http://sds.owenscorning.com

Certifications and Sustainable Features

- Certified **asthma & allergy friendly™** by the Asthma and Allergy Foundation of America
- US meets ASP-19-01 Certification Standard for Fiberglass Insulation
- UL GREENGUARD Gold Certified
- UL Validated Formaldehyde Free
- USDA BioPreferred®
- Certified average minimum 65% recycled content

AVERAGE 65% RECYCLED CONTENT
18% PRE-CONSUMER
47% POST-CONSUMER

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