



- Unfaced
- Kraft-Faced

Description

Sonobatts Insulation are flexible, fiber glass insulation, made in R-values from 11 to 38. *Sonobatts* Insulation are available plain, or faced with a kraft vapor retarder. The product is manufactured in thicknesses from 3 1/2" to 12".

Uses

Sonobatts Insulation are designed for use over suspended ceiling panels to economically improve both the noise control and thermal performance of new or existing ceiling systems. The product is sized to fit over standard ceiling tiles.

Features and Benefits

Excellent Thermal Performance

The excellent thermal resistance of *Sonobatts* Insulation may help reduce both the size requirements and operating costs of HVAC equipment. An optional kraft vapor retarder facing is available where needed.

Acoustically Effective

Sonobatts Insulation is not only a good thermal insulator, but it has excellent noise control properties as well. *Sonobatts* Insulation can significantly improve the ceiling Sound Transmission Class (STC) rating by 4-10 points. When *Sonobatts* Insulation is used in a return air plenum for acoustical benefit, the unfaced insulation has been tested according to UL 181 air erosion test and can be used for air velocities up to 1000 fpm.

Easy Installation

Installation of *Sonobatts* Insulation is easy. It can be installed in suspended ceiling systems by simply laying the product on top of the ceiling panels. Easy installation makes *Sonobatts* Insulation the ideal product for upgrading thermal values in renovation and remodeling projects.

Design Considerations

KRAFT FACINGS ON THIS INSULATION WILL BURN AND MUST NOT BE LEFT EXPOSED. INSTALL FACINGS IN SUBSTANTIAL CONTACT WITH THE FINISH MATERIAL. PROTECT FACINGS FROM OPEN FLAME OR OTHER HEAT SOURCE.

Sonobatts Insulation is designed for use with suspended ceiling systems to improve building energy efficiency. This application requires that the building envelop block the movement of air from the outdoor environment to the conditioned space. Neither the insulation nor its facing should be relied upon to provide an air barrier. Failure to provide an adequate air barrier could lead to loss of thermal control, discomfort of the building occupants and frozen pipes.

Maximum thermal performance is obtained by minimizing the number of penetrations in the ceiling. Surface mounted lighting and large ceiling panels, 48" x 48", can be utilized to reduce penetrations and improve thermal performance.

When insulation is added to the inside perimeter of a structure, the area outside the insulation becomes exposed to greater temperature extremes. Building structures should be inspected to ensure they can withstand the additional expansion and contraction forces. Check for piping which should be protected against freezing.

In thermal applications, the area above the insulation should not act as a return air plenum. This would render the insulation thermally ineffective as the air space above the ceiling would be at the same temperature as the room below. Thermal insulation in return plenum areas would best be added at the roof and side walls.

Sonobatts Insulation can also provide acoustical control at the ceiling. Insulation placed on top of a suspended ceiling at a floor-to-ceiling partition helps reduce the transfer of sound over the partition between offices. In acoustical applications, the area above the insulation may serve as a return air plenum.

Insulation installed too close to light fixtures may affect the luminaire's performance. Do not install insulation on top of or within 3 inches of recessed light fixtures unless the fixtures are approved for such use. This is a requirement of the National Electric Code.

Consult the ceiling panel manufacturer for information on time-design hourly fire resistance rated assemblies and maximum backloading recommendations.

Sonobatts® Insulation

Technical Data

Width	Length	Thickness	R-value*
24" 609mm	48" 1219mm	12" 305mm	38.0
24" 609mm	48" 1219mm	9 1/2" 241mm	30.0
24" 609mm	48" 1219mm	6 1/4" 159mm	19.0
24" 609mm	48" 1219mm	3 1/2" 89mm	11.0

*Unfaced Sonobatts® Insulation complies with the property requirements of ASTM C 665, Type I and ASTM E 136. Kraft-faced Sonobatts® Insulation complies with the property requirements of ASTM C 665, Type II, Class C.

Surface Burning Characteristics/Building Code Construction Classification

Products	Flame Spread	Smoke Developed	ICBO	IBC	BOCAI	SBCCI
Unfaced	10	10	All Types	All Types	All Types	All Types
Kraft-faced	N/R	N/R	III, IV, V	III, IV, V	III, IV, V	III, V, VI

Sonobatts® Insulation complies with ICBO (Uniform Building Code), BOCAI (National Building Code), SBCCI (Standard Building Code) and IBC (International Building Code) model code requirements for building construction types listed above.

Kraft facing on Sonobatts® Insulation will burn and must not be left exposed. The facing must be installed in substantial contact with an approved ceiling construction material. Protect facing from open flame or heat source.

Available Vapor Retarder Facings	Kraft
Perms Maximum*	1.00

Water Absorption	
Maximum by Volume	Less than 0.05%

Dimensional Stability	
Linear Shrinkage	Less than 0.1%

Air Erosion	
Air Velocities per UL 181 Up to 1000 fpm	

* Products are tested in accordance with:
 R-value ASTM C 518
 Surface Burning Characteristics ASTM E 84
 Perm Rating ASTM E 96

Installation

Sonobatts Insulation are easily installed in suspended ceiling systems by simply laying them on top of the ceiling panel and suspension system. Sonobatts should fit tightly together to reduce the amount of heat loss.

Product should be kept dry during shipping, storage and installation.

Applicable Standards

Unfaced Sonobatts Insulation complies with ASTM C 665, Type I and ASTM E 136. Kraft-faced Sonobatts Insulation complies with ASTM C 665, Type II, Class C.

The thermal resistance values for Sonobatts Insulation were tested in accordance with ASTM C 518; R-value for insulation only.

The surface burning characteristics of Sonobatts Insulation were derived from products tested in accordance with ASTM E 84. 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 of 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.

The vapor retarder permeance of the kraft facing on Sonobatts Insulation was developed from tests conducted in accordance with ASTM E 96, desiccant method.



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