



# UltraSorb Natural Fiber Insulation

## Description

All UltraSorb Natural Fiber Insulation products are Class "A" material that offer excellent thermal and acoustical performance. Made from natural fibers, they contain no fiberglass and do not itch or cause skin irritation. The fibers used offer excellent sound absorption properties and are treated with an EPA registered fungal inhibitor that offers excellent protection from mold, mildew, fungi and pest as well as fire resistance.

## Uses

Use UltraSorb Natural Fiber Insulation products wherever sound reduction and thermal comfort are required. UltraSorb's no-itch insulation is easy to handle and install.

Acoustical Performance - NRC								
Product		Absorption Coefficients @ Octave Band Frequencies (Hz)						
Thickness (inch)	Density (pcf)	125	250	500	1000	2000	4000	NRC
1	1.5	.12	.10	.23	.56	.81	.89	.75
1	3	.08	.31	.79	1.01	1.0	.99	.80
1	6	.07	.30	.86	1.10	1.05	1.03	.85
1.5 *	1.5	.12	.38	.95	1.08	1.10	.99	.90
2	3	.35	.94	1.32	1.22	1.06	1.03	1.15

\* Ceilings Plus standard thickness

## Recycled Content

<b>Product</b>	% Post Consumer	% Post Industrial
Natural Cotton Fiber Products	0%	85%

## Rapidly Renewable Resources

<b>Product</b>	Raw Material Source	% Utilized
Natural Cotton Fiber Products	0%	85%

Natural cotton fibers are used in the manufacturing of this insulation product. This cotton fiber is harvested from the cotton plant, which is a rapidly renewable resource.

## Product Features

- Excellent Noise Absorption
- Maximum NRC Ratings
- Strong Thermal Protection
- No Itch or Skin Irritation
- Resists Microbial Growth
- No Formaldehyde
- No Harmful Irritants
- No Health Warnings
- No VOC Concerns
- Class – "A" Fire Rating
- Multiple Uses
- Easy To Handle/Install





THE U.S. GREEN BUILDING COUNCIL announced the creation of the first voluntary National Green Building Standard for the development of high-performance, sustainable buildings...

# LEED™

## LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN

ULTRASORB Natural Cotton Fiber Insulation can contribute to earning several LEED program credits. Below are the categories and prerequisites in the Green Building Rating System where UltraSorb may contribute.

### ENERGY & ATMOSPHERE:

<b>Prerequisite 2</b>	<b>Minimum Energy Performance</b>
<b>Credit 1</b>	<b>Optimize Energy Performance</b>
<b>Credit 2.1</b>	<b>Construction Waste Management: Divert 50%</b>
<b>Credit 2.2</b>	<b>Construction Waste Management: Divert 75%</b>

### COMMENTS

ULTRASORB facilitates compliance with ASHRAE 90.1-1999

Bonded Logic Inc will receive ULTRASORB insulation project waste for re-introduction into the manufacturing process.

### MATERIALS & RESOURCES:

<b>Credit 4.1</b>	<b>Recycled Content: 10%</b>
<b>Credit 4.2</b>	<b>Recycled Content: 20%</b>
<b>Credit 5.1</b>	<b>Regional Materials: 10%</b>
<b>Credit 5.2</b>	<b>Regional Materials: 20%</b>
<b>Credit 6</b>	<b>Rapidly Renewable Resources</b>

ULTRASORB contains 85% pre-consumer recycled content

Subject to location of jobsite

ULTRASORB utilizes cotton as one of its main material sources

### INDOOR ENVIRONMENTAL AIR QUALITY:

<b>Prerequisite 1</b>	<b>Minimum Air-Quality Performance</b>
<b>Credit 4</b>	<b>Low Emission Materials</b>

ULTRASORB contains no harmful irritants or chemicals that can pose respiratory health or VOC concerns

### INNOVATION IN DESIGN:

<b>Credit 1</b>	<b>LEED Innovation Credit</b>
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ULTRASORB contributes to design credits in the usage of innovative materials throughout the project

### PRODUCT COMPLIANCES

The physical properties of ULTRASORB Insulation regularly meet the requirements, specifications, standards and building practices of the following organizations.

- ICBO/ICC International Conference of Building Officials
- BOCA Building Officials and Code Administrators
- CABO Council of American Building Officials
- SBCCI Southern Building Code Congress International
- LEED Leadership in Energy and Environmental Design
- CA-IAQ Environmental Specification #1350
- CHPS Collaborative for High Performance Schools
- LARR City of Los Angeles Building and Safety
- California Bureau of Thermal Insulation

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# UltraSorb Natural Fiber Insulation

## COMPARISON OF FEATURES

FEATURES		FIBERGLASS	ULTRASORB
REQUIRES CARCINOGEN WARNING LABEL		YES	NO
VOC CONCERNS OR OFF GASSING ISSUES		YES	NO
85% RECYCLED CONTENT		NO	YES
CONTAINS FORMALDEHYDE		YES	NO
REDUCES INDOOR AIR QUALITY ISSUES		NO	YES
ENVIRONMENTALLY FRIENDLY		NO	YES
USES SAFE NATURAL FIBERS		NO	YES
SUPERIOR ACOUSTIC PROPERTIES		YES	YES
REQUIRES LESS ENERGY TO MANUFACTURE		NO	YES
EASY TO HANDLE		NO	YES
PROTECTIVE CLOTHING REQUIRED		YES	NO
ITCH / SKIN IRRITATION		YES	NO





## UltraSorb Natural Fiber Insulation

### Frequently Asked Questions



**Q: Is UltraSorb made from recycled blue jeans?**

*A: UltraSorb is manufactured using post-industrial denim and cotton fibers that are obtained from denim manufacturing facilities. UltraSorb contains over 85% recycled denim and cotton fibers.*

**Q: Do I need protective clothing to install UltraSorb?**

*A: Absolutely not! UltraSorb does not itch, is easy to handle and requires no protective clothing to install.*

**Q: Is UltraSorb Fire Resistant?**

*A: Yes, each natural fiber of UltraSorb is saturated with a natural fire retardant (borates) giving UltraSorb insulation a Class-A fire rating.*

**Q: Can UltraSorb be installed in contact with recessed lighting?**

*A: Yes, UltraSorb can be installed in contact with recessed lighting but the lighting MUST be IC Rated. An air gap of six inches would be required for non-insulated lighting cans.*

**Q: What happens when UltraSorb gets wet?**

*A: UltraSorb is manufactured to breathe or accept and release the moisture it receives in a timely manner. UltraSorb also contains active mold inhibitors as well.*

**Q: Will mold and pests affect UltraSorb?**

*A: The fire retardant used in making UltraSorb also acts as an excellent pest, mold and mildew inhibitor.*

**Q: Does UltraSorb contain formaldehyde?**

*A: No, UltraSorb does not contain any formaldehyde or harmful irritants.*

**Q: Does UltraSorb have a vapor barrier?**

*A: No, UltraSorb is manufactured in batt form and is unfaced. If your local building code requires the use of a vapor barrier, we recommend a poly sheeting to be applied across the insulated surface.*

**Q: What is the best way to cut UltraSorb?**

*A: We have found the simplest way to cut UltraSorb is to score it with a utility knife against a straight edge or use a beveled (toothless) saw blade in a small utility saw.*

**Q: Is UltraSorb considered a "Green Building" material?**

*A: Yes. UltraSorb utilizes natural fibers, contains no formaldehyde or harmful irritants, and is safe for you and the environment.*