

## Technical Specification

### Product Format :

Product	<b>Ecoustic</b>
Code	<b>SoundBox</b>
Composition	100% Polyester Batt
Thickness	50 mm +/-10%
Batt size	0.50 x 0.50 m , 0.60 x 0.60 m
	1.20 x 1.20 m
NRC	0.90
Application	Sound absorption for gymnasium, conversion center



### Acoustic Performance :

Ecoustic, SoundBox has been tested in accordance with ISO 354 Acoustic Measurement of sound absorption in a reverberation room and exhibits Noise Reduction Coefficient (NRC) of 0.90 which typically reduce reverberated noise by approximately 90%

#### Sound Absorption

Absorption coefficient						NRC
125	250	500	1000	2000	4000	
0.18	0.72	0.71	1.11	1.01	0.89	<b>0.90</b>

**MOUNTING :** Type "A" per ASTM Designation E795-05, "Standard Practices for Mounting Test Specimens During Sound Absorption Tests".

### Flammability :

**ASTM E84**, Surface Burning Characteristics of Building Materials.

	<b>Class A</b>	
Flame Spread Index	(0-25)	15
Smoke Developed Index	(0-450)	115

### Thermal Insulation Effectiveness :

(ASTM C 518 ; at normal temperature of approx. 23.90°C)	<b>Ecoustic 50</b>
Thermal Conductivity (K-value) (w/mk)	0.041
Thermal Resistance (R-value) (m <sup>2</sup> k/w)	1.238

### Description :

**Ecoustic Batt** is a high performance sound absorption and thermal insulation product designed for wall, ceiling and subfloor applications. Made from 100% polyester fibers (instead of fiberglass) including 85% regenerated fibers reclaimed from post consumer discarded plastic drinking water bottles. **Ecoustic Batt** is an environmentally friendly product and fully recyclable.

### Durable and safe

**Ecoustic Batt** is 100% polyester fibers thermally bonded into 50 mm thick batt. Polyester fiber is soft, extremely durable and does not absorb moisture, will not deteriorate or rot over time and naturally resistant to insects and vermin attack. Unlike fiberglass, polyester is non-toxic, non-irritant and does not contain formaldehyde. It is safe and odorless providing clean indoor air quality.

### Wall insulation between rooms

**Ecoustic Batt** is ideal for reduction of airborne sound transmission between rooms through separating wall. It is specially manufactured light weight and soft to provide optimum performance. **Ecoustic Batt** is ideal for hotel, school, office, meeting room, or home wherever noise reduction is desired.

**Excellent thermal insulation**

**Ecoustic Batt** is an ideal thermal insulation material for wall and ceiling in buildings and homes to help keep interior cool in the summer and warm in winter which helps to reduce energy cost.

**Environmental**

**Ecoustic Batt** is made from 100% polyester including 85% regenerated fibers from discarded plastic drinking water bottles reclaimed as post-consumer waste. **Ecoustic Batt** is an environmentally friendly product and is fully recyclable.

With 85% recycled content, **Ecoustic Batt** exceeds the criteria set by USGBC (United States Green Building Council) recognizing its contribution to the Leadership in Energy and Environmental Design (LEED). Thus users of **Ecoustic Batt** can earn environmental points from LEED for their building project.

LEED credit	Contribution	Points
MR credit 4.1 recycled content 10%	Ecoustic Batt is manufactured using a minimum of 85% Post consumer recycled materials	1
MR credit 4.2 recycled content 20%	Ecoustic Batt is manufactured using a minimum of 85% post consumer recycled materials	1
MR credit 5.2 regional materials	Manufactured within 500 miles	1
EQ credit 3.2 Indoor Air Quality	Ecoustic Batt has low VOCs emissions	1

**Ecoustic Batt's outstanding features and benefits**

- Superior in sound absorption and thermal insulation
- Recycled content more than 85%
- Fully recyclable at the end of its useful life
- 100% Polyester fibers are clean and safe
- Non toxic, non irritant, non allergenic and odorless
- Rated low Volatile Organic Compound (VOC's)
- Free of formaldehyde/Phenol/Ammonia
- Will not absorb moisture or deteriorate over time
- Naturally resistant to insect and vermin attack

