



E Squared SoundSafe™ has revolutionized acoustic barriers for noise reduction.

E Squared has revolutionized the field of acoustic barriers by providing an efficient and versatile solution for noise reduction. From homeowners seeking peace and quiet to commercial establishments aiming to minimize noise pollution, Mass Loaded Vinyl (MLV) offers a cost-effective way to create quieter and more peaceful spaces.

SoundSafe™ Acoustic Barrier is a dense material consisting of two main parts, Polyvinyl Chloride (PVC) as the base compound and mineral additives for increased mass. The added mass helps block and absorb sound waves by limiting their transmission, making it an efficient barrier against unwanted noise. With its flexible and thin composition, **SoundSafe™** is reinforced with a high strength knit polyester fabric to give additional strength and integrity, while allowing fasteners, like grommets, to be securely attached for maximum strength. **SoundSafe™** is available in two FR versions: Standard - NFPA 701 & UL-94, Ultra FR - ULCS102 and ASTM E84.

SoundSafe™ can be used to soundproof ceilings, walls, floors, doors in residential, commercial and industrial applications. Interior applications have included sound proofing film sound stages, divider walls in schools, office and apartments. Exterior applications have included building staging to comply with noise abatement requirements, outdoor activity venues and construction sites to name just a few.

For more information on **E Squared** products, call us at 908-558-0899 or visit www.e2techtiles.com.

BENEFITS

- Two levels of Fire Retardant (FR)
- Reinforced for Greater Strength
- Two Standard Widths: 54" & 96"; Inquire for custom width options
- Available Weights: 1 Lb. & 1.5 Lbs. per SF
- Extended UV Resistant Products Available

Noise Transmission Loss (dB) Frequencies

	E2 SoundSafe (1.0 lbs/SF)	*	E2 SoundSafe (1.5 lbs/SF)	E2 SoundSafe ULTRA (1.0 lbs/SF)
ASTM E90				
FREQUENCY/HZ	TL	TL	TL	TL
125	9	25	21	16
250	15	24	20	17
500	21	28	26	22
1000	27	27	31	27
2000	33	34	36	32
4000	39	45	41	37
5000		48	43	39
STC	25	30*	30	26

TL = Transmission Loss **HZ = Hertz**

**with 5/8 thick type X gypsum board backing*

ASTM E90 – Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements. Noise Transmission Loss (TL) is a measurement of the dB (volume) difference on either side of a wall. TL is tested at standard frequencies between 80 and 5000 Hz.

STC (Sound Transmission Class) is determined from the TL contour curve at 500 Hz with sum of deficiencies no greater than 32 and deficiency of at any frequency no greater than 8.

E2 SoundSafe™ Series – Sustainably Made in USA and “Build America, Buy America” (BABA) Compliant

Properties	Units	Methods	E2 SoundSafe (1.0 lbs/SF)	E2 SoundSafe (1.5 lbs/SF)	E2 SoundSafe ULTRA (1.0 lbs/SF)
Fabric Scrim Type			Polyester	Polyester	Polyester
Standard Color			Grey, Black	Grey, Black	Natural/Light Tan
Product Width	in		54 to 96 inches	54 to 96 inches	54 inches
Composite Weight	oz/y2	ASTM D751	144.0 (+/-5%)	218.0 (+/-5%)	144.0 (+/-5%)
Composite Weight	lbs/SF	ASTM D751	1.0	1.5	1.0
Composite Thickness	mils	ASTM D751	110.0 (+/-10%)	160.0 (+/-10%)	110.0 (+/-10%)
Tear Strength (Tounge)	lbs	ASTM D751	30	30	30
Breaking Strength (Grab Tensile)	lbs	ASTM D751	300	300	300
Elongation (Grab Tensile)	%	ASTM D751	15%	15%	15%
Adhesion Ply (lbs/in)	lbs/in	ASTM D751	8	8	8
Dimensional Stability	%	ASTM D751	3%	3%	3%
Specific Gravity		ASTM D792	1.8 +/- 0.2	1.8 +/- 0.2	1.8 +/- 0.2
Shore Hardness		ASTM D2240	89 +/- 3	89 +/- 3	89 +/- 3
Surface Burning Performance			NFPA 701 SS UL 94 V-O	NFPA 701 SS UL 94 V-O	NFPA 701 SS; UL 94 V-O; CAN ULCS102; ASTM E84
Recommended Temperature Range			-20 to 170°F	-20 to 170°F	-20 to 170°F