

Quiet Batt® Soundproofing Insulation

Recycled Cotton Soundproofing Thermal Insulation Batt

Features & Benefits:

- **Excellent Sound Absorption Performance** - Quiet Batt® absorbs sound within wall and ceiling cavities, reducing the sound transfer from one space to the next. Quiet Batt® has the highest NRC obtainable of 1.00, which means it absorbs 100% of sound.
- **Keep it Green** - Quiet Batt® is manufactured with 80% recycled natural cotton fibers.
- **Excellent Flammability Rating** — Quiet Batt® has a Class A™ flammability rating. This product passes most building code flammability requirements for exposed materials.
- **Easy to Handle** - Quiet Batt® is itch free and does not contain formaldehydes or other harmful chemicals.



General Information:

Quiet Batt® is a premium high-performance soundproofing insulation with thermal qualities. Acoustically, Quiet Batt® often outperforms typical fiberglass, cellulose and foam insulations.

Quiet Batt® Soundproofing Insulation products are designed for interior and exterior walls, ceilings and attic applications. Our user-friendly home and commercial insulation materials are easy to install with minimal tools required. Quiet Batt® installs with a tight friction fit between wood and metal studs to minimize sound and thermal energy transmission.

Quiet Batt® Soundproofing Insulation can be used separately or in conjunction with a variety of our other soundproofing products. Quiet Batt® can be cut with a utility knife or simply tear off unneeded pieces.

Applications:

Professional and Home Theaters • Professional and Home Recording Studios • Offices • Homes, Condos and Apartments
• Band practice rooms • Broadcast Studios • Workshops • Equipment Enclosures
Any environment that needs soundproofing

Acoustic Data:

frequency	125	250	500	1K	2K	4K	NRC*	SAA*
3 inch	.39	.86	.99	.92	.96	1.01	0.95	0.94

* NRC = noise reduction coefficient

*SAA = sound absorption average

Thermal Data:

3 in. Quiet Batt® Soundproofing Insulation	
overall density	1.20 lbs/ft ³
average thermal conductance (c)	0.079 Btu/hr ft ² °F
average thermal resistance (R)	12.7 hr ft ² °F/Btu
average thermal resistance (Rsi)	2.24 m ² K/W
average thermal conductivity (k)	0.275 Btu-in./hr ft ² °F

Product Availability and Coverage:

- box of 4 batts - 3 in. x 16 in. x 96 in. = 42.67 sqft
- box of 3 batts - 3 in. x 24 in. x 96 in. = 48 sqft




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SOUND ABSORPTION
ASTM C423
Architectural Testing

ATI No.		61989.01A				
Client		American Micro Industries, Inc.				
Specimen		3" Quiet Batt Acoustical and Thermal Insulation				
Specimen Area		72.00 Sq Ft		Mounting Type A		
Operator						
Date		Empty Room 12-Jan-06		Full Room 12-Jan-06		
Temp F		74.8		75.3		
RH %		63.1		62.7		
Freq (Hz)	Empty Room Absorption (Sabines)	Uncert	Full Room Absorption (Sabines)	Uncert	Absorption Coefficient (Sabines/Sq.Ft.)	Uncertainty
50	42.38	0.501	54.89	0.331	0.17	0.008
63	44.62	0.373	55.77	0.058	0.15	0.005
80	52.25	0.432	56.96	0.054	0.07	0.006
100	50.33	0.348	67.44	0.689	0.24	0.011
125	45.10	0.389	73.24	0.275	0.39	0.007
160	44.29	0.195	88.14	0.408	0.61	0.006
200	50.38	0.206	101.73	0.123	0.71	0.003
250	53.14	0.071	114.94	0.220	0.86	0.003
315	54.78	0.143	125.97	0.587	0.99	0.008
400	56.17	0.326	129.73	0.151	1.02	0.005
500	56.56	0.085	128.09	0.150	0.99	0.002
630	56.21	0.305	123.80	0.245	0.94	0.005
800	58.23	0.034	125.83	0.299	0.94	0.004
1000	62.52	0.107	128.99	0.603	0.92	0.009
1250	65.94	0.027	133.32	0.614	0.94	0.009
1600	69.05	0.167	137.83	0.071	0.96	0.003
2000	74.66	0.012	143.75	0.069	0.96	0.001
2500	86.02	0.028	157.53	0.010	0.99	0.000
3150	102.69	0.078	176.41	0.369	1.02	0.005
4000	126.15	0.326	198.79	0.322	1.01	0.006
5000	167.26	0.016	240.96	0.401	1.02	0.006
6300	218.34	0.011	293.71	0.030	1.05	0.000
8000	299.21	0.333	374.31	0.289	1.04	0.006
Exact NRC Rating =		0.934				
Exact SAA Rating =		0.935				
NRC Rating =		0.95				
SAA Rating =		0.94				

Note: The acoustical chambers are qualified for measurements down to 80 hertz.
 Data reported below 80 hertz is for reference only.

 NVLAP LAB CODE 200361	Architectural Testing, Inc is accredited by the National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program for the specific test methods listed under lab code 200361. The laboratory's accreditation or test report in no way constitutes or implies product certification, approval, or endorsement by NIST. This test report applies only to the specimen that was tested.



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Architectural Testing

ATI No. 61989.01A
Client American Micro Industries, Inc.
Specimen 3" Quiet Batt Acoustical and Thermal Insulation
Specimen Area 72.00 Sq Ft Mounting Type A
Operator

Date 01/12/06

