



Title: Sound Transmission Test Results

Product: 1" Sound Silencer

Application: Wall and Ceiling

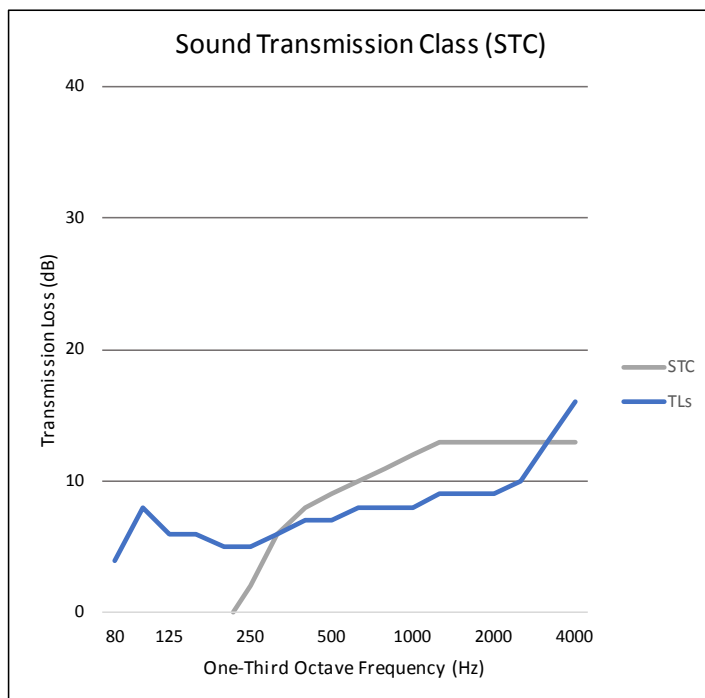
Testing Standard: ASTM E90

Test Date: 02/11/1999

Why this test: This test evaluates a products efficiency of reducing transmission of sound at multiple frequencies. The test simulates the product's acoustical performance with a direct installation on a wall or ceiling.

Test Result Summary: STC - 9; OITC - 8

STC	OITC
9	8
Frequency (Hz)	Transmission Loss (dB)
80	4
100	8
125	6
160	6
200	5
250	5
315	6
400	7
500	7
630	8
800	8
1000	8
1250	9
1600	9
2000	9
2500	10
3150	13
4000	16



Test ID: 01-34115.01-6

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**SOUND ABSORPTION
ASTM E90**

ATI No. 01-34115.01-6				Date 02/11/99					
Rendered by Manufacturer and Released to: Acoustical Surfaces, Inc.									
Specimen	1" ARPRO PEPP			123 Columbia Court N.					
Specimen Area	24.00 Sq Ft			Chaska, MN 55318					
Filler Area	116.00 Sq Ft								
Operator	Eric J. Miller								
	Bkgrd	Absorp	Source	Receive	Filler	Specimen			
Temp F	70.0	69.7	71.9	69.5	85.7	70.3			
RH %	63.3	63.6	64.8	63.8	68.2	63.9			
Freq (Hz)	Bkgrd SPL (dB)	Absorp (Sabines /Sq Ft)	Source SPL (dB)	Receive SPL (dB)	Filler TL (dB)	Specimen TL (dB)	95% Conf Limit	No. of Defici- encies	Trans Coef Diff
80	43.0	63.4	80.0	71.3	32.9	4	2.60	0	21.6
100	44.2	61.2	84.2	71.8	36.5	8	2.41	0	21.4
125	41.2	60.9	87.4	77.6	44.2	6	2.07	0	31.6
160	39.9	58.8	91.9	82.1	44.8	6	0.91	0	32.0
200	39.6	62.9	96.8	87.4	48.4	5	0.68	0	36.4
250	37.2	55.8	98.9	90.0	50.4	5	0.65	0	38.3
315	34.7	55.9	97.5	88.3	53.7	6	0.62	0	41.3
400	33.0	58.3	96.9	86.4	57.6	7	0.45	1	44.2
500	30.0	57.7	97.7	87.1	58.7	7	0.36	2	45.1
630	24.6	56.2	101.0	89.7	64.3	8	0.37	2	49.9
800	24.5	60.7	102.8	90.8	66.2	8	0.32	3	51.5
1000	22.8	64.7	102.6	90.3	70.6	8	0.22	4	55.7
1250	20.8	70.8	103.7	90.0	77.4	9	0.36	4	61.7
1600	20.5	77.0	109.8	95.6	80.6	9	0.40	4	64.7
2000	13.9	82.4	107.2	92.6	81.4	9	0.21	4	65.2
2500	7.9	97.6	103.4	86.9	78.8	10	0.21	3	61.6
3150	7.1	115.2	104.4	84.4	80.7	13	0.12	0	60.6
4000	6.9	133.8	104.8	81.5	83.2	16	0.38	0	60.6
5000	6.9	174.8	102.2	78.3	82.3	15	0.29	0	60.1

STC Rating 9 (Sound Transmission Class)
Deficiencies 27 (Number of deficiencies versus contour curve)
OITC Rating 8 (Outdoor/Indoor Transmission Class)



Accredited by the National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program for the specific test methods 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.

ATI No. 01-34115.01-6

Date 02/11/99

Rendered by Manufacturer and Released to: Acoustical Surfaces, Inc.

Specimen 1" ARPRO PEPP

123 Columbia Court N.

Specimen Area 24.00 Sq Ft

Chaska, MN 55318

Filler Area 116.00 Sq Ft

Operator Eric J. Miller

