



**Title: Sound Transmission Test Results**

**Product: H2 Echo Barrier**

Application: Wall

Testing Standard: ASTM E90

Test Date: 06/20/2014

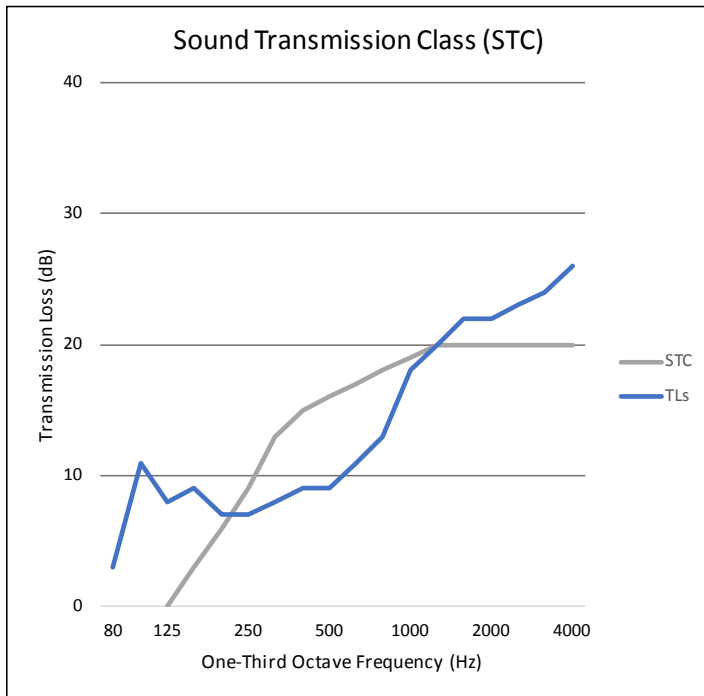
*Why this test: This test evaluates a products efficiency of reducing transmission of sound at multiple frequencies. The test simulates the product's acoustical performance with a direct installation on a wall.*

Test Result Summary: STC - 16; OITC - 11

STC	OITC
16	11

Frequency (Hz)	Tranmission Loss (dB)
80	3
100	11
125	8
160	9
200	7
250	7
315	8
400	9
500	9
630	11
800	13
1000	18
1250	20
1600	22
2000	22
2500	23
3150	24
4000	26



Test ID: TL14-221

**ASI TEST RESULT DISCLAIMER**

ASI makes every effort to ensure the accuracy and reliability of the information provided. Laboratory testing is conducted by independent testing organizations. ASI does not guarantee that field tests or independent tests will not vary.

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Riverbank Acoustical Laboratories (RAL)<sup>TM</sup> / An Alion Science Technical Center (RALVer 10.1)Laboratory Measurement of Airborne Sound Transmission Loss  
of Building Partitions ASTM E 90-09/NVLAP 08/P06

TEST NUMBER: TL14-221 TEST DATE: JUNE 20, 2014

CLIENT: Echo Barrier USA  
DESIGNATION: Echo H2 Acoustic Noise Barrier (orange/mesh faces source)DIMENSIONS: 48" wide x 77.5" high x 1.25" thick  
AREA: 26.0 ft<sup>2</sup>  
WEIGHT: 12 lbs AREA WEIGHT: 0.46 lbs/ft<sup>2</sup>  
SPECIMEN DETAILS:SOURCE ROOM: Room 2 Volume = 6297.6 ft<sup>3</sup> Area = 2066.2 ft<sup>2</sup>  
RECEIVE ROOM: Room 3 Volume = 4929.46 ft<sup>3</sup> Area = 1690.3 ft<sup>2</sup>  
FILE NAME: TL14\_221\_140620\_A.doc

FREQ. (Hz)	T.L. (dB)	UNC. (dB) 95%CL	DEF. (dB) <CONT	FREQ. (Hz)	T.L. (dB)	UNC. (dB) 95%CL	DEF. (dB) <CONT
100	<b>11</b>	0.62		800	<b>13</b>	0.17	5
125	<b>08</b>	0.48		1k	<b>18</b>	0.14	1
160	<b>09</b>	0.75		1.25k	<b>20</b>	0.16	
200	<b>07</b>	0.34		1.6k	<b>22</b>	0.09	
250	<b>07</b>	0.68	2	2k	<b>22</b>	0.08	
315	<b>08</b>	0.31	4	2.5k	<b>23</b>	0.08	
400	<b>09</b>	0.48	6	3.15k	<b>24</b>	0.07	
500	<b>09</b>	0.16	7	4k	<b>26</b>	0.07	
630	<b>11</b>	0.28	6	5k	<b>27</b>	0.08	

**Sound Transmission Class (STC) = 16**

Total Deficiencies = 31

## Extended Frequency Data

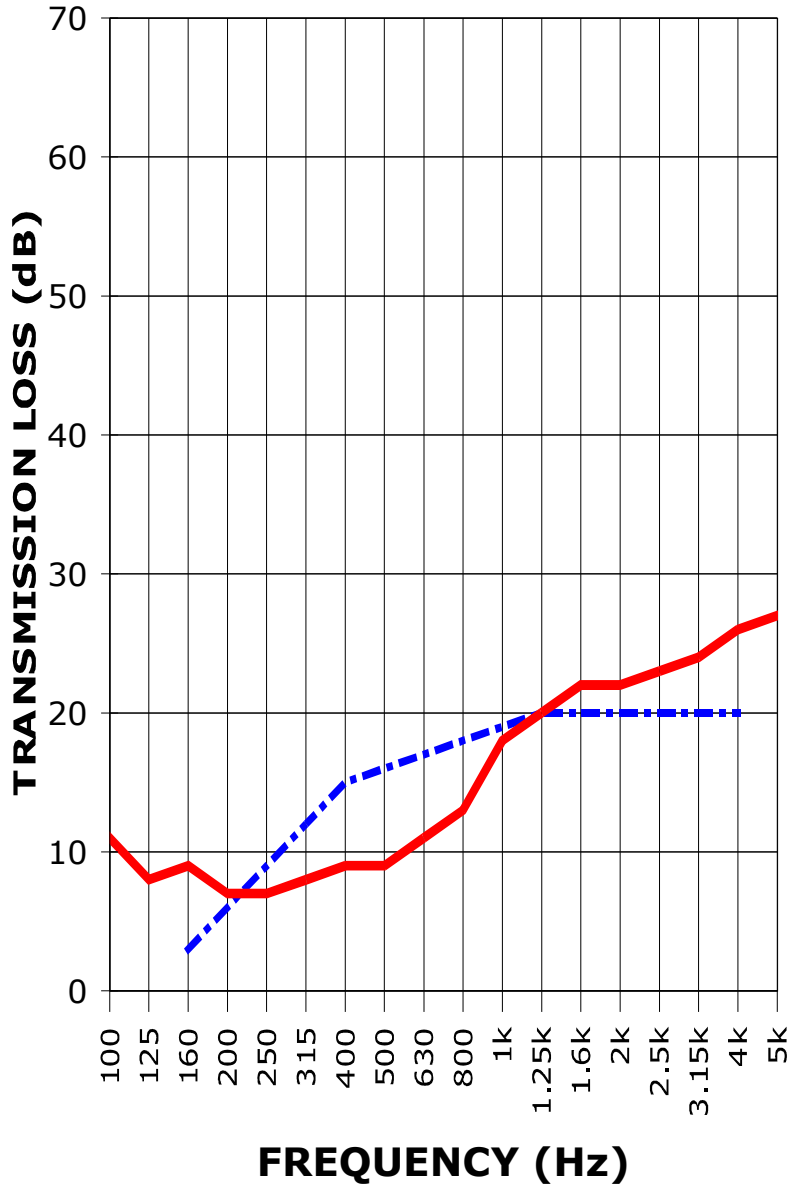
FREQ.	T.L.	UNC.	DEF.	FREQ.	T.L.	UNC.	DEF.
40	<b>11</b>	0.77		6.3k	<b>29</b>	0.06	
50	<b>8</b>	0.75		8k	<b>31</b>	0.07	
63	<b>1</b>	0.67		10k	<b>35</b>	0.11	
80	<b>3</b>	0.86					

R: 16  
OITC: 11

  
 Test Conducted by Marc Sciaky

This single report page and accompanying graph contain the instantaneous raw data as provided to the client after testing of the specimen. This data, although accurate, is incomplete without the full specimen description, mounting details and signature pages. The full report referenced by the RAL test number above should be consulted for further information regarding these results.

SOUND TRANSMISSION REPORT  
RAL - TL14-221



**FREQUENCY (Hz)**

STC = 16



TRANSMISSION LOSS

SOUND TRANSMISSION LOSS CONTOUR