

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: TL10-412 TEST DATE: DECEMBER 08, 2010

CLIENT: Barrier Technology Corporation  
DESIGNATION: Configuration C - Double Stud Party Wall Assembly (UL U350)

DIMENSIONS: 168" wide x 108" high x 11" thick *BB 5/18/11*  
AREA: 126.0 ft<sup>2</sup>  
WEIGHT: 1500 lbs AREA WEIGHT: 11.90 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 1 Volume = 6254.5 ft<sup>3</sup> Area = 2042 ft<sup>2</sup>  
FILE NAME: TL10\_412\_101208\_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	23	1.02		800	77	0.12	
125	37	0.43	8	1k	78	0.13	
160	45	0.72	3	1.25k	80	0.11	
200	52	0.47		1.6k	79	0.17	
250	58	0.29		2k	75	0.08	
315	65	0.25		2.5k	76	0.10	
400	69	0.27		3.15k	78	0.08	
500	72	0.17		4k	81	0.10	
630	74	0.23		5k	84	0.10	

Sound Transmission Class (STC) = 61

Total Deficiencies = 11

Extended Frequency Data

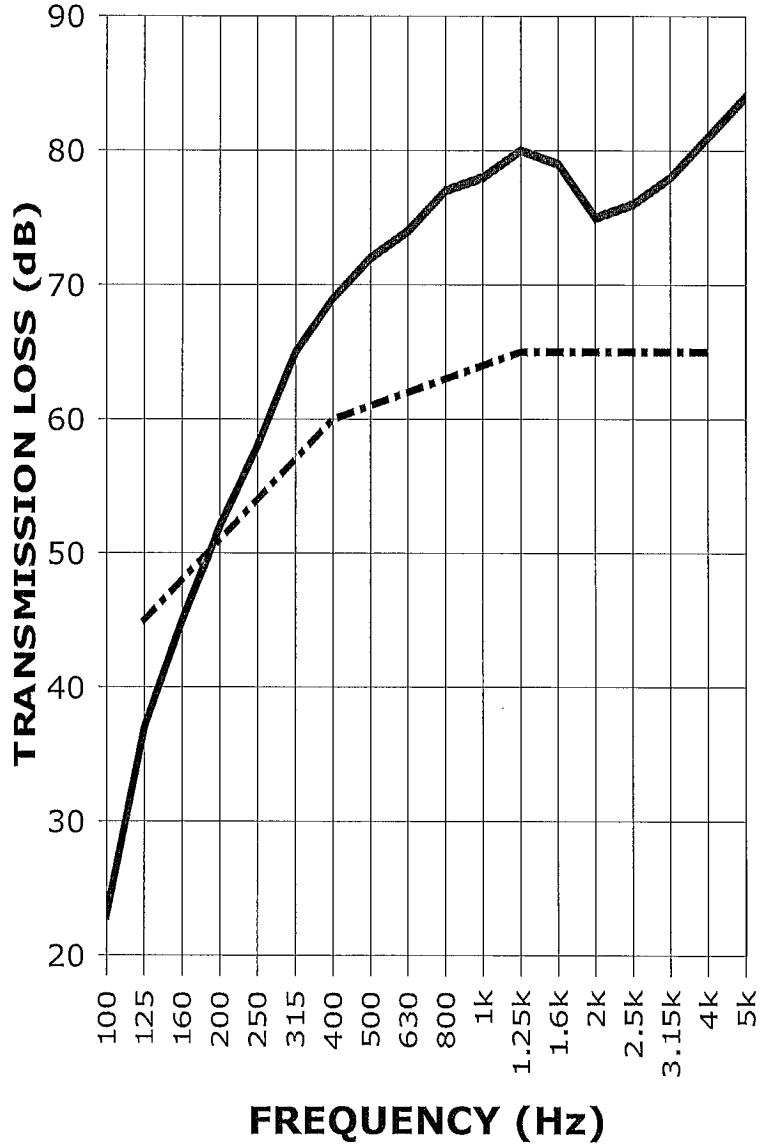
FREQ.	T.L.	UNC.	DEF.	FREQ.	T.L.	UNC.	DEF.
80	19	0.64					

R: 61  
OITC: 36

Test Conducted by *Marc Sclaky*  
Marc Sclaky

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 - TL10-412



STC = 61



TRANSMISSION LOSS  
SOUND TRANSMISSION LOSS CONTOUR