Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions ASTM E 90-09/NVLAP 08/P06

TEST NUMBER: TL17-273 TEST DATE: JUNE 27, 2017

CLIENT: **Commercial Acoustics**

Demising Wall - 1 layer 5/8" Gypsum, 1 layer Wall Blokker (barrier material) Source DESIGNATION:

Side, wood stud 4 pack staggered 16"oc, insulated, 1 layer OSB and 1 layer 5/8"

Gypsum Receive

DIMENSIONS: 168" wide x 108" high x 7.375" thick

126.0 ft² AREA:

1584.5 lbs AREA WEIGHT: 12.58 lbs/ft2 WEIGHT:

SPECIMEN DETAILS:

SOURCE ROOM: Room 1 Volume = 6254.5 ft^3 Area = 2042 ft^2 RECEIVE ROOM: Room 2 Volume = 6297.6 ft^3 Area = 2066.2 ft^2

TL17_273_170627_A.doc FILE NAME:

FREQ.	T.L.	UNC.	DEF.	FREQ.	T.L.	UNC.	DEF.
(Hz)	(dB)	(dB)	(dB)	(Hz)	(dB)	(dB)	(dB)
		95%CL	<cont< td=""><td></td><td></td><td>95%CL</td><td><cont< td=""></cont<></td></cont<>			95%CL	<cont< td=""></cont<>
100	25	0.69		800	57	0.12	
125	31	0.55	6	1k	59	0.18	
160	32	0.70	8	1.25k	61	0.10	
200	39	0.53	4	1.6k	61	0.13	
250	43	0.43	3	2k	60	0.07	
315	48	0.26	1	2.5k	62	0.07	
400	51	0.21	1	3.15k	66	0.04	
500	54	0.16		4k	70	0.47	
630	56	0.19		5k	72	0.21	

Sound Transmission Class (STC) = 53

Total Deficiencies = 23

Extended Frequency Data

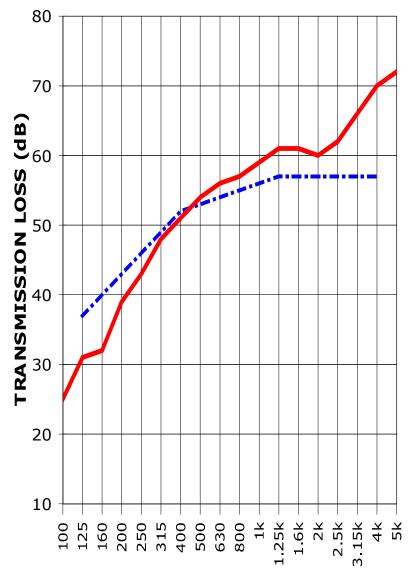
FREQ.	T.L.	UNC.	DEF.	FREQ.	T.L.	UNC.	DEF.
32	17	1.72		6.3k	74	0.50	
40	24	0.85		8k	73	0.90	
50	17	0.66		10k	66	0.37	
63	24	0.49		12.5k	62	0.06	
80	27	0.60					

R: 53 OITC: 39

Test Conducted by

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 - TL17-273



FREQUENCY (Hz)

STC = 53

TRANSMISSION LOSS
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