Riverbank Acoustical Laboratories (RAL)™ / An Alion Science Technical Center
Laboratory Measurement of Airborne Sound Transmission Loss
of Building Partitions ASTM E 90-04/NVLAP 08/P06

TEST NUMBER: TL07-393 TEST DATE: DECEMBER 21, 2007

CLIENT: Quiet Solution, LLC
DESIGNATION: QR 527/X 2 1/2" Single 25 steel 24 oc R-13 X/X QS 350

DIMENSIONS: 168" wide x 108" high x 5" thick
AREA: 126.0 ft²
WEIGHT: 1270.75 lbs AREA WEIGHT: 10.09 lbs/ft²
SPECIMEN DETAILS:

SOURCE ROOM: Room 2 Volume = 6297.6 ft³ Area = 2066.2 ft²
RECEIVE ROOM: Room 1 Volume = 6254.5 ft³ Area = 2042 ft²
FILE NAME: TL07_393_071221_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**	0.96		800	**58**	0.15	1
125	**36**	0.65	5	1k	**59**	0.14	1
160	**40**	0.55	4	1.25k	**61**	0.12	
200	**42**	0.42	5	1.6k	**63**	0.10	
250	**47**	0.36	3	2k	**60**	0.10	1
315	**51**	0.29	2	2.5k	**60**	0.09	1
400	**54**	0.35	2	3.15k	**63**	0.10	
500	**57**	0.19		4k	**65**	0.05	
630	**58**	0.20		5k	**65**	0.06	

Sound Transmission Class (STC) = 57

Total Deficiencies = 25

Extended Frequency Data

FREQ.	T.L.	UNC.	DEF.	FREQ.	T.L.	UNC.	DEF.
40	**26**	0.84		6.3k	**66**	0.06	
50	**23**	1.45		8k	**67**	0.07	
63	**20**	0.57		10k	**69**	0.17	
80	**20**	0.59					

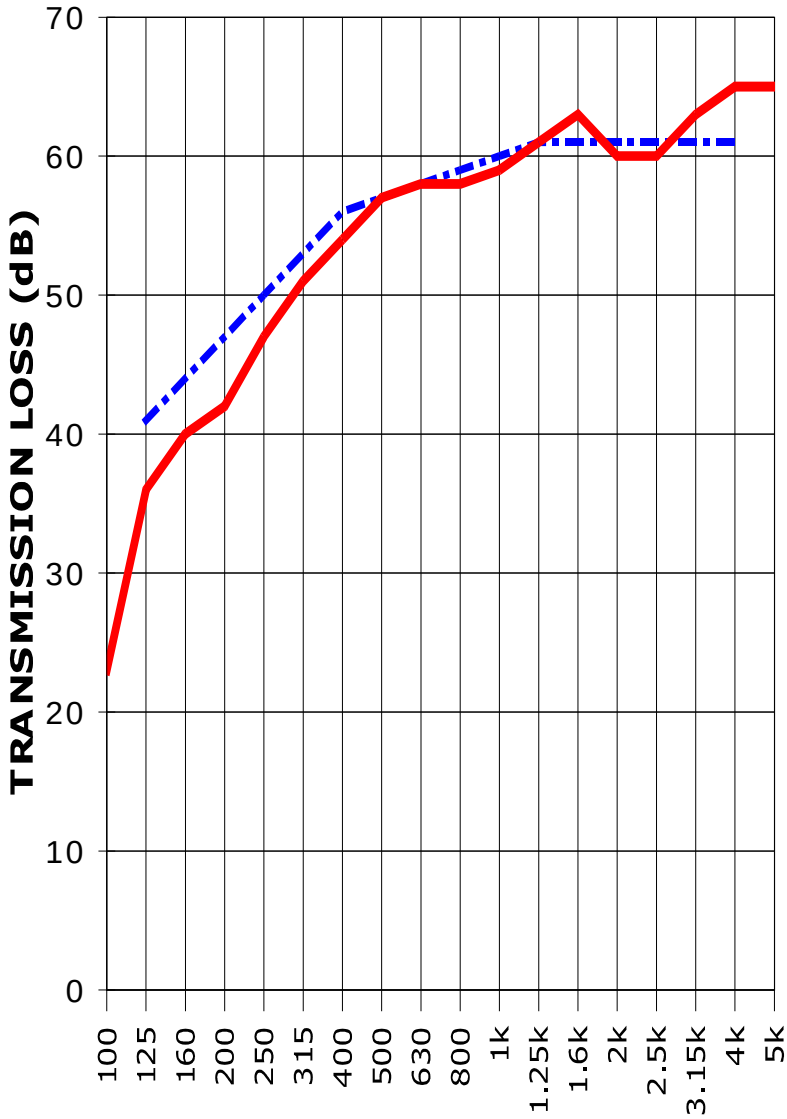
R: 56
OITC: 37

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.

RIVERBANK ACOUSTICAL LABORATORIES

SOUND TRANSMISSION REPORT
RAL - TL07-393



STC = 57

TRANSMISSION LOSS
SOUND TRANSMISSION LOSS CONTOUR

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ASTM E90 RAW DATA ANALYSIS TLCALCS

FREQ	FILL	+	AMB	*	SOR	-REC	=NR	+10 Log (Sc/A)	TLc	TLs	Abs	Unc w/95 % C.L.
40	NA		27.4		95.2	69.6	25.6	0.5	26.1	**26.0**	112.5	0.84
50			26.8		96.9	75.6	21.3	1.9	23.3	**23.0**	80.4	1.45
63			32.9		101.4	82.1	19.3	0.5	19.8	**20.0**	112.6	0.57
80			31.0		98.7	80.7	18.0	1.6	19.6	**20.0**	87.1	0.59
100			23.6		101.0	78.9	22.1	0.4	22.5	**23.0**	115.5	0.96
125			27.4		99.9	66.0	33.8	2.4	36.2	**36.0**	72.6	0.65
160			25.6		104.7	66.6	38.1	2.3	40.4	**40.0**	74.5	0.55
200			24.2		102.6	63.3	39.3	3.0	42.3	**42.0**	63.0	0.42
250			21.0		98.1	54.8	43.3	3.2	46.5	**47.0**	60.2	0.36
315			16.6		101.0	53.1	47.9	3.1	51.0	**51.0**	62.1	0.29
400			14.9		101.3	50.3	51.1	3.3	54.4	**54.0**	58.7	0.35
500			15.1		99.3	45.6	53.7	3.1	56.8	**57.0**	61.9	0.19
630			11.8		99.7	45.3	54.4	3.2	57.6	**58.0**	60.8	0.20
800			13.5		98.3	43.8	54.5	3.2	57.7	**58.0**	59.7	0.15
1k			14.8		99.1	43.5	55.6	3.0	58.6	**59.0**	63.3	0.14
1.25k			12.9		103.5	45.1	58.4	2.5	60.9	**61.0**	70.4	0.12
1.6k			9.1		104.3	43.6	60.6	2.2	62.9	**63.0**	75.5	0.10
2k			9.7		102.9	44.9	58.0	1.8	59.8	**60.0**	82.5	0.10
2.5k			8.3		104.3	45.9	58.4	1.4	59.8	**60.0**	91.6	0.09
3.15k			8.3		104.0	41.9	62.2	1.0	63.2	**63.0**	99.3	0.10
4k			8.6		102.1	37.1	65.0	0.3	65.3	**65.0**	118.0	0.05
5k			9.5		99.0	32.9	66.0	-0.6	65.5	**65.0**	143.3	0.06
6.3k			10.2		95.2	27.2	68.0	-1.7	66.3	**66.0**	184.5	0.06
8k			10.8		93.4	23.5	69.9	-2.9	67.0	**67.0**	246.2	0.07
10k			11.0	*	91.1	17.6	73.5	-4.2	69.3	**69.0**	332.3	0.17

STC = 57 **Def = 25**

INPUTS:

PULSE PROGRAM TEMPLATE: TL_Sor2_Rec1_Pre-c.plt	AVERAGING TIME: 32 sec
FREQUENCY RANGE: 40 Hz to 10000 Hz	NUM OF MEASUREMENTS: 5
Environmental Conditions	
Source Room Start: 70°F 54 % RH	Receive Room Start: 70°F 51 % RH
Source Room Comp: 71°F 52 % RH	Receive Room Comp: 69° F 51 % RH
Source RUN Key: TL07_393_S2_071221_A	Receive RUN Key: TL07_393_R1_071221_A
	Ambient RUN KEY: AMB1_071221_C
	SPECIMEN AREA: 126.0 ft²
FILE NAME: TL07_393_071221_A.doc	FILLER WALL: NA

' * ' or '***' on right of AMB see Receive raw data

Test Conducted by: Marc Sciaky