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: TL10-189 TEST DATE: JUNE 02, 2010

CLIENT: Harder Luckey & Hargrave Inc.
DESIGNATION: Tuf-Barrier (Empty Rails)

DIMENSIONS: 96" wide x 96" high x 2.75" thick
AREA: 64.0 ft² (Filler: 62.0 ft² Comp: 126.0 ft²)
WEIGHT: 256 lbs AREA WEIGHT: 4.00 lbs/ft²
SPECIMEN DETAILS: 16@ 96" x 6.875" x 2.75"

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: TL10_189_100602_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	**21**	0.74		800	**38**	0.15	
125	**22**	0.54		1k	**39**	0.19	
160	**20**	0.70		1.25k	**40**	0.15	
200	**19**	0.42	2	1.6k	**41**	0.12	
250	**16**	0.55	8	2k	**41**	0.11	
315	**22**	0.28	5	2.5k	**44**	0.11	
400	**26**	0.43	4	3.15k	**46**	0.08	
500	**31**	0.17		4k	**49**	0.07	
630	**35**	0.21		5k	**49**	0.04	

Sound Transmission Class (STC) = 31

Total Deficiencies = 19

Extended Frequency Data

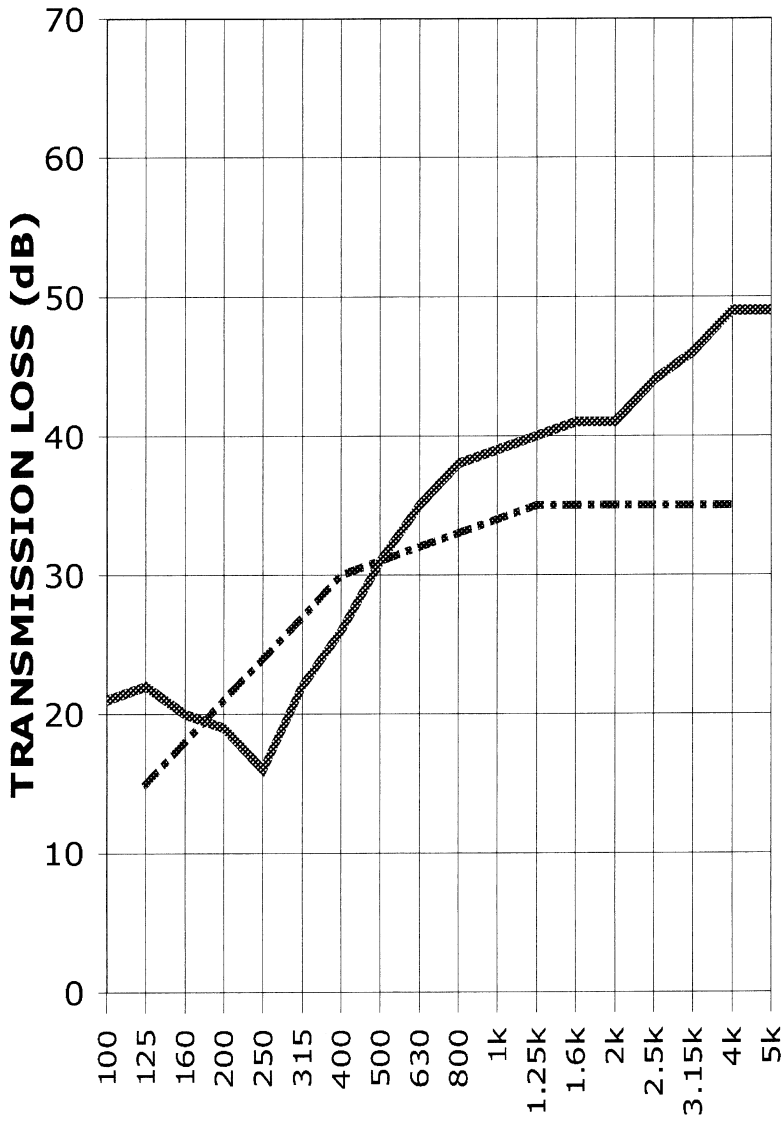
FREQ.	T.L.	UNC.	DEF.	FREQ.	T.L.	UNC.	DEF.
80	**22**	0.46					

R: 33
OITC: 25

Test Conducted by Dean Victor

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 - TL10-189



STC = 31

TRANSMISSION LOSS
SOUND TRANSMISSION LOSS CONTOUR