

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

TEST NUMBER: TL07-031 TEST DATE: JANUARY 25, 2007

CLIENT: Quiet Solution, LLC  
 DESIGNATION: ID 04: QuietRock 510 + 5/8 Type X 24"oc SS wall w/ R-13 fiberglass and Double 5/8 Type X

DIMENSIONS: 97" wide x 108" high x 6" thick  
 AREA: 72.5 ft<sup>2</sup> (Filler: 53.5 ft<sup>2</sup> Comp: 126.0 ft<sup>2</sup>)  
 WEIGHT: 646 lbs AREA WEIGHT: 8.88 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>  
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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>25</b>	0.84		800	<b>58</b>	0.13	
125	<b>38</b>	0.54	2	1k	<b>58</b>	0.14	1
160	<b>43</b>	0.86		1.25k	<b>59</b>	0.11	1
200	<b>44</b>	0.50	2	1.6k	<b>59</b>	0.08	1
250	<b>48</b>	0.35	1	2k	<b>57</b>	0.09	3
315	<b>52</b>	0.26		2.5k	<b>56</b>	0.06	4
400	<b>53</b>	0.35	2	3.15k	<b>59</b>	0.05	1
500	<b>56</b>	0.16		4k	<b>61</b>	0.06	
630	<b>57</b>	0.18		5k	<b>64</b>	0.03	

**Sound Transmission Class (STC) = 56**

Total Deficiencies = 18

Extended Frequency Data

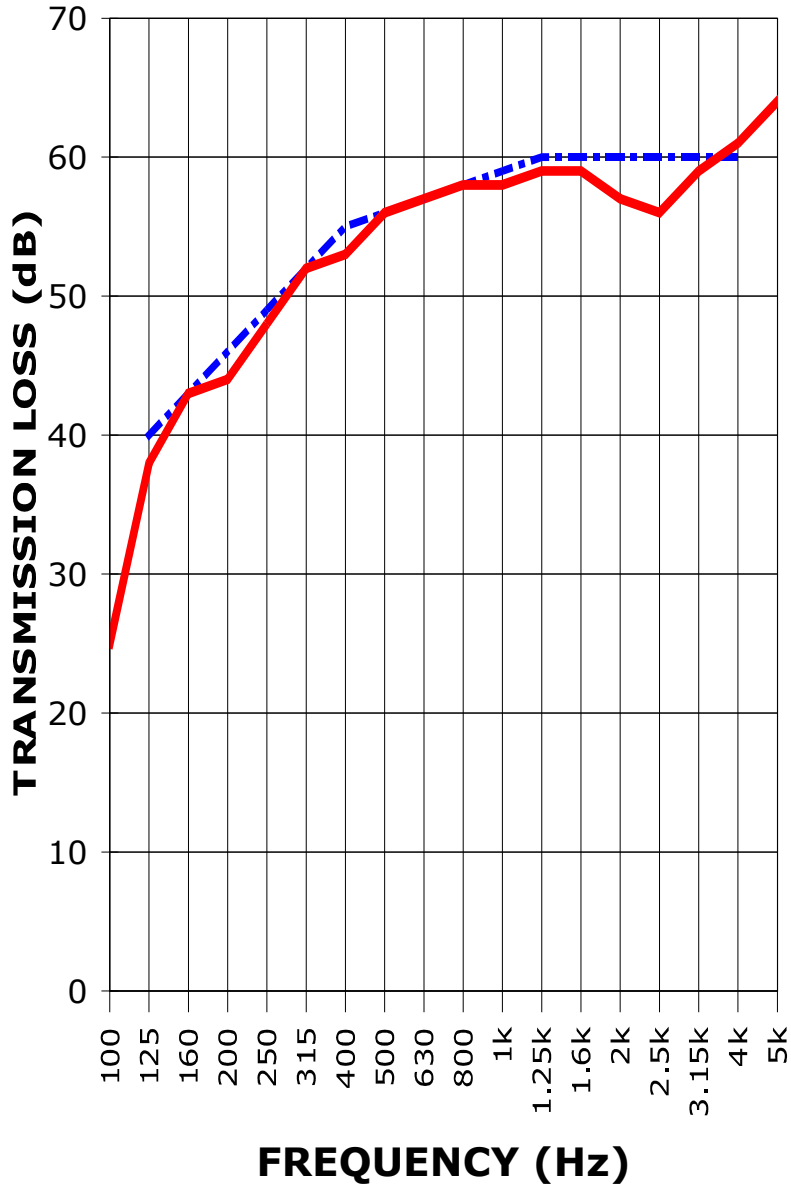
FREQ.	T.L.	UNC.	DEF.	FREQ.	T.L.	UNC.	DEF.
40	<b>26</b>	0.99		6.3k	<b>65</b>	0.05	
50	<b>17</b>	0.58		8k	<b>67</b>	0.06	
63	<b>17</b>	0.59		10k	<b>68</b>	0.04	
80	<b>22</b>	0.72					

R: 56  
 OITC: 39

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 - TL07-031



FREQUENCY (Hz)

STC = 56



TRANSMISSION LOSS  
SOUND TRANSMISSION LOSS CONTOUR