Unofficial Test Results & Preliminary Data Sheet

Riverbank Acoustical Laboratories (RAL)TM / An Alion Science Technical Center (RALVer 15.2) Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions ASTM E 90-09/NVLAP 08/P06

TEST NUMBER: TL17-167 TEST DATE: APRIL 25, 2017

CLIENT: Commercial Acoustics

DESIGNATION: Wall Assembly Section Panel with Wall Blokker on both sides.

NOTES: Double wall section in the 4x9 opening. The studs are staggered on each side. Side 1 has 5/8

gyp, Wall Blokker, 6" 18ga studs @24" on center, stud -22.5" space-stud-22.5" space, stud. Side 2 has 5/8 gyp, Wall Blokker, 6" 18ga studs @24" on center, 11.25" space-stud- 22.5""space-stud-11.25" space 3 inch spacing between parallel stud rows. R-19 unfaced insulation in stud

cavities on each side of the assembly. Unofficial Test (non-standard size).

DIMENSIONS: 48" wide x 96" high x 16.5" thick

AREA: 32.0 ft^2

WEIGHT: 336.75 lbs AREA WEIGHT: 10.52 lbs/ft²

SPECIMEN DETAILS:

SOURCE ROOM: Room 2 Volume = 6297.6 ft^3 Area = 2066.2 ft^2 RECEIVE ROOM: Room 3 Volume = 4876.78 ft^3 Area = 1882 ft^2

FILE NAME: TL17_167_170425_A.doc

| FREQ. (Hz) | T.L. (dB) | UNC. (dB) 95%CL | DEF. (dB) <cont< th=""><th>FREQ. (Hz)</th><th>T.L. (dB)</th><th>UNC. (dB) 95%CL</th><th>DEF. (dB) <cont< th=""></cont<></th></cont<> | FREQ. (Hz) | T.L. (dB) | UNC. (dB) 95%CL | DEF. (dB) <cont< th=""></cont<> |
|---------------|-----------|-----------------------|--|------------|-----------|-----------------------|---------------------------------------|
| 100 | 41 | 0.92 | | 800 | 67 | 0.20 | |
| 125 | 44 | 0.60 | 3 | 1k | 70 | 0.14 | |
| 160 | 46 | 0.63 | 4 | 1.25k | 70 | 0.15 | |
| 200 | 49 | 0.45 | 4 | 1.6k | 71 | 0.11 | |
| 250 | 51 | 0.46 | 5 | 2k | 72 | 0.10 | |
| 315 | 53 | 0.44 | 6 | 2.5k | 76 | 0.08 | |
| 400 | 58 | 0.35 | 4 | 3.15k | 78 | 0.10 | |
| 500 | 62 | 0.25 | 1 | 4k | 78 | 0.08 | |
| 630 | 65 | 0.24 | | 5k | 76 | 0.06 | |

Sound Transmission Class (STC) = 63

Total Deficiencies = 27

Extended Frequency Data

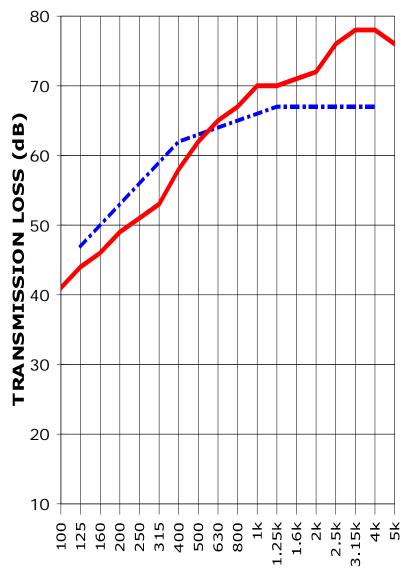
| FREQ. | T.L. | UNC. | DEF. | FREQ. | T.L. | UNC. | DEF. |
|-------|------|------|------|-------|------|------|------|
| | | | | 6.3k | 72 | 0.05 | |
| 40 | 29 | 0.73 | | 8k | 67 | 0.05 | |
| 50 | 36 | 0.45 | | 10k | 62 | 0.04 | |
| 63 | 36 | 1.43 | | 12.5k | 54 | 0.04 | |
| 80 | 36 | 1 45 | | | | | |

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 - TL17-167



FREQUENCY (Hz)

STC = 63

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