



SOUND TRANSMISSION LOSS
ASTM E 90

| | | | |
|--------------------|---|---------|----------|
| Test Date | 01/31/13 | | |
| ATI No. | C4822.01A | | |
| Client | Nxtwall | | |
| Specimen | Series/Model: Flex Series 3", Demountable wall system with 1/2" thick MDF wall board and 1-1/2" thick rock wool batt insulation | | |
| Operator | Daniel P. Platts | | |
| Sample Area | 5.95 m ² | | |
| Filler Area | 7.05 m ² | | |
| | Source | Receive | Specimen |
| Temp C | 23 | 22 | 22 |
| RH % | 48 | 47 | 47 |

| Freq (Hz) | Bkgrd SPL (dB) | Absorp (m ²) | Source SPL (dB) | Receive SPL (dB) | Filler TL (dB) | Specimen TL (dB) | 95% Conf Limit | No. of Deficiencies | Trans Coef Diff |
|-----------|----------------|--------------------------|-----------------|------------------|----------------|------------------|----------------|---------------------|-----------------|
| 80 | 38 | 5.0 | 91 | 72 | 47 | 19 | 1.7 | - | 26.5 |
| 100 | 35 | 5.9 | 92 | 76 | 51 | 16 | 2.9 | - | 34.5 |
| 125 | 37 | 6.4 | 96 | 78 | 55 | 18 | 1.8 | 2 | 36.9 |
| 160 | 34 | 6.0 | 96 | 77 | 54 | 19 | 1.3 | 4 | 34.1 |
| 200 | 33 | 5.4 | 101 | 76 | 54 | 26 | 0.4 | 0 | 27.5 |
| 250 | 32 | 5.5 | 102 | 73 | 57 | 29 | 1.0 | 0 | 27.1 |
| 315 | 27 | 6.0 | 103 | 71 | 58 | 32 | 0.5 | 0 | 25.6 |
| 400 | 25 | 5.9 | 104 | 69 | 64 | 35 | 1.1 | 0 | 28.7 |
| 500 | 22 | 6.0 | 103 | 66 | 66 | 37 | 0.4 | 0 | 27.6 |
| 630 | 21 | 5.7 | 105 | 66 | 67 | 39 | 0.5 | 0 | 26.6 |
| 800 | 18 | 5.8 | 106 | 64 | 71 | 42 | 0.4 | 0 | 28.6 |
| 1000 | 14 | 6.0 | 106 | 63 | 75 | 42 | 0.3 | 0 | 31.6 |
| 1250 | 13 | 6.6 | 104 | 60 | 77 | 44 | 0.4 | 0 | 32.6 |
| 1600 | 9 | 6.9 | 107 | 61 | 76 | 45 | 0.3 | 0 | 30.0 |
| 2000 | 7 | 7.4 | 106 | 68 | 74 | 37 | 0.2 | 3 | 35.8 |
| 2500 | 7 | 8.3 | 105 | 72 | 76 | 32 | 0.3 | 8 | 43.8 |
| 3150 | 6 | 9.8 | 106 | 70 | 83 | 35 | 0.5 | 5 | 47.5 |
| 4000 | 6 | 11.8 | 106 | 67 | 87 | 36 | 0.5 | 4 | 49.5 |
| 5000 | 7 | 15.1 | 105 | 60 | 86 | 40 | 0.8 | - | 45.1 |

STC Rating **36** (*Sound Transmission Class*)
Deficiencies **26** (*Number of deficiencies versus contour curve*)
OITC Rating **28** (*Outdoor Indoor Transmission Class*)

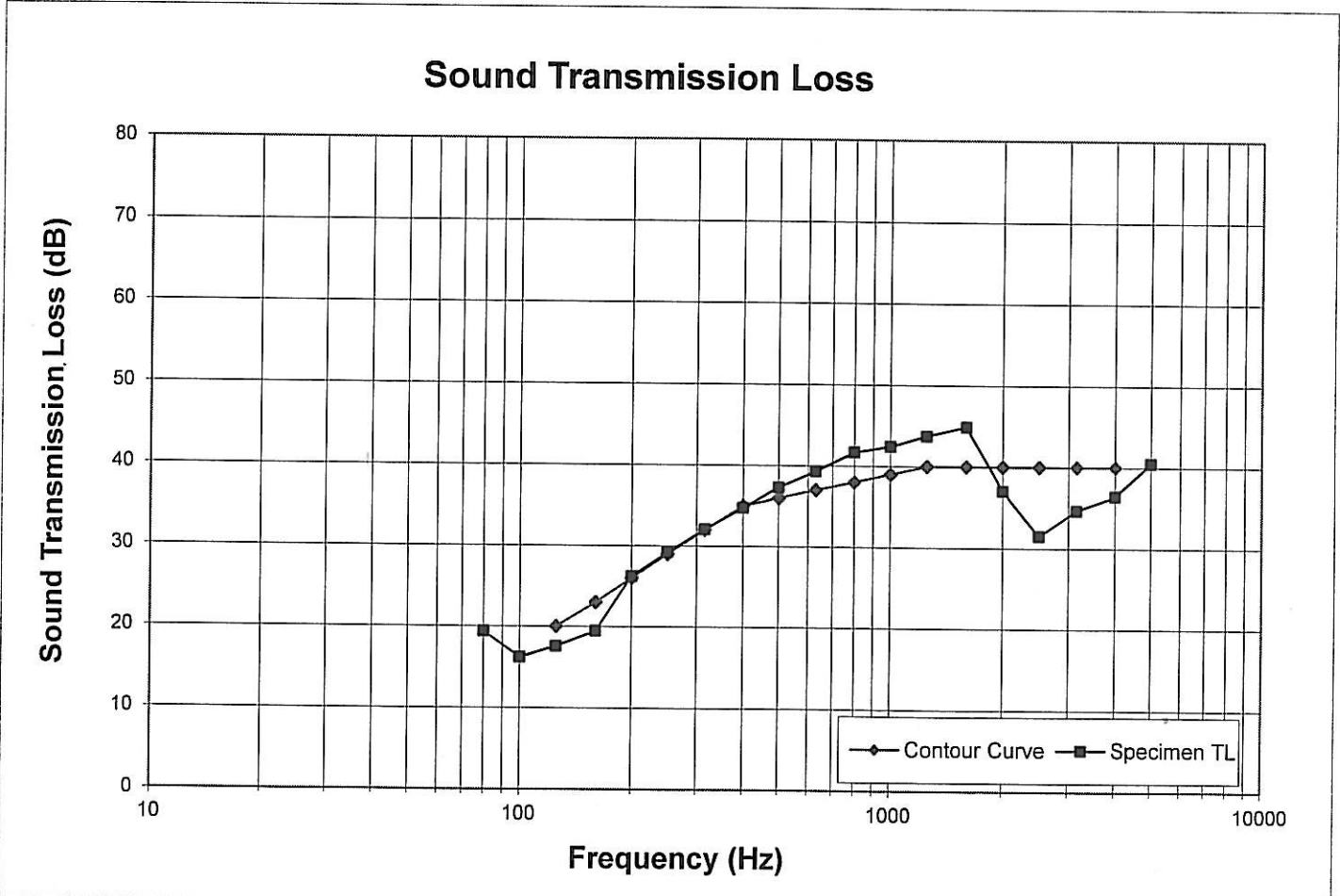
- Notes:**
- 1) Transmission loss coefficient differences less than 6 indicate the lower limit of the transmission loss for this specimen. These cells are highlighted red.
 - 2) Transmission loss coefficient differences between 6 and 15 indicate there has been a filler wall correction applied. These cells are highlighted green.
 - 3) Receive Room levels less than 5 dB above the background levels are highlighted in yellow.

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| Operator | Daniel P. Platts | | |
| Sample Area | 5.95 m ² | | |
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| | Source | Receive | Sample |
| Temp C | 23 | 22 | 22 |
| RH % | 48 | 47 | 47 |



Note: To obtain the Sound Transmission Class (STC), read the Sound Transmission Loss of the contour curve at 500 Hz. The sum of the deficiencies below the contour curve cannot exceed 32. The maximum deficiencies at any one frequency cannot exceed 8.