



**SOUND TRANSMISSION LOSS**  
ASTM E 90

<b>Test Date</b>	01/31/13		
<b>ATI No.</b>	C4822.01D		
<b>Client</b>	Nxtwall		
<b>Specimen</b>	Series/Model: Flex Series 3", Demountable wall system (1/2" thick gypsum wall board with 6 mm vinyl wrap and 1-1/2" rock wool batt insulation) with 4' by 8' side lite 2-3/4" OA (1/4" tempered, 2-1/4" air space, 1/4" tempered)		
<b>Operator</b>	Daniel P. Platts		
<b>Sample Area</b>	5.95 m <sup>2</sup>		
<b>Filler Area</b>	7.05 m <sup>2</sup>		
	Source	Receive	Specimen
<b>Temp C</b>	23	22	22
<b>RH %</b>	49	47	46

Freq (Hz)	Bkgrd SPL (dB)	Absorp (m <sup>2</sup> )	Source SPL (dB)	Receive SPL (dB)	Filler TL (dB)	Specimen TL (dB)	95% Conf Limit	No. of Deficiencies	Trans Coef Diff
80	35	5.4	91	74	47	18	1.8	-	28.1
100	36	5.2	92	76	51	17	3.0	-	33.6
125	36	5.7	97	76	55	21	1.9	1	33.0
160	41	5.1	97	71	54	26	1.2	0	27.3
200	38	5.0	102	74	54	28	0.7	0	25.3
250	33	5.3	102	72	57	31	1.1	0	25.8
315	30	5.6	103	70	58	33	0.6	1	24.4
400	28	5.8	104	68	64	36	1.1	1	27.8
500	23	5.9	103	65	66	38	0.5	0	26.8
630	20	5.6	105	64	67	41	0.5	0	25.1
800	19	5.8	106	62	71	44	0.4	0	25.9
1000	14	5.9	106	59	75	47	0.2	0	27.0
1250	12	6.6	104	54	77	49	0.5	0	27.1
1600	9	6.6	107	57	76	49	0.2	0	25.4
2000	6	7.4	106	68	74	37	0.2	5	36.2
2500	6	8.6	105	70	76	34	0.6	8	41.7
3150	5	9.8	106	62	83	42	0.5	0	40.2
4000	6	11.9	106	62	87	41	0.5	1	44.6
5000	6	15.3	105	52	86	49	0.6	-	36.7

**STC Rating**      **38**      (*Sound Transmission Class*)  
**Deficiencies**    **17**      (*Number of deficiencies versus contour curve*)  
**OITC Rating**    **30**      (*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.

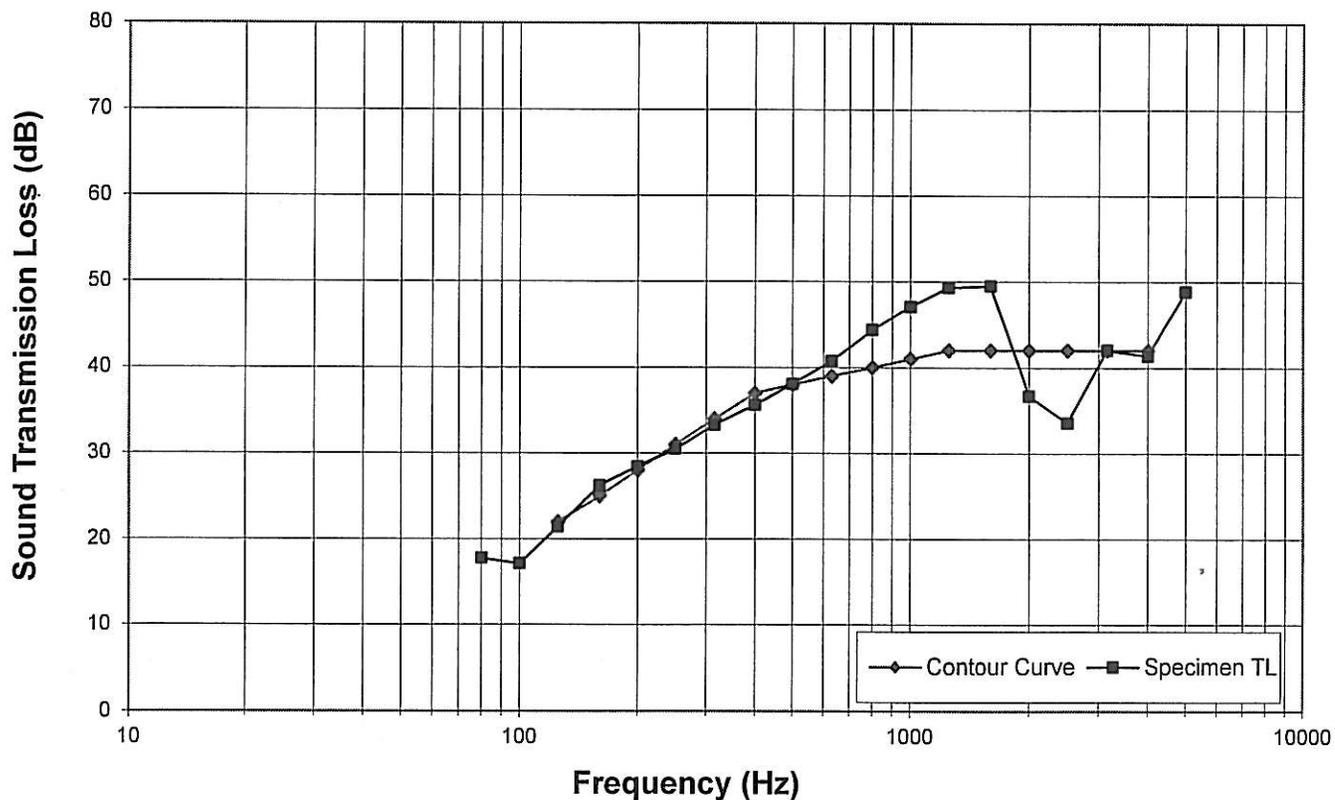


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### Sound Transmission Loss



*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.*