



ACCREDITED
TL-144

SOUND TRANSMISSION LOSS
ASTM E 90

Test Date	01/31/13		
ATI No.	C4822.01C		
Client	Nxtwall		
Specimen	Series/Model: Flex Series 3", Demountable wall system with 1/2" thick gypsum wall board with 6 mm vinyl wrap and 1-1/2" 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	21	22
RH %	49	48	46

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 Defi- ciencies	Trans Coef Diff
80	39	5.4	92	73	47	19	1.9	-	27.0
100	40	6.3	92	77	51	15	2.6	-	35.9
125	40	6.4	97	76	55	20	1.9	6	34.3
160	39	5.1	97	72	54	25	1.1	4	28.8
200	36	5.0	102	70	54	33	0.4	0	21.2
250	32	5.4	102	68	57	35	0.8	0	21.6
315	30	5.7	103	67	58	36	0.7	2	21.5
400	29	5.5	104	65	64	39	1.1	2	24.1
500	27	6.0	103	62	66	41	0.5	1	23.7
630	25	5.5	105	62	67	44	0.4	0	22.3
800	24	5.6	106	60	71	47	0.4	0	23.7
1000	19	5.9	106	57	75	49	0.2	0	25.4
1250	19	6.6	104	52	77	51	0.4	0	25.1
1600	13	6.8	107	54	76	52	0.3	0	22.7
2000	8	7.4	106	55	74	49	0.3	0	23.6
2500	7	8.6	105	64	76	39	0.4	7	35.9
3150	6	9.8	106	63	83	41	0.5	5	41.5
4000	6	11.6	106	60	87	44	0.4	2	42.0
5000	6	15.1	105	51	86	50	0.7	-	35.9

STC Rating 42 (*Sound Transmission Class*)
Deficiencies 29 (*Number of deficiencies versus contour curve*)
OITC Rating 29 (*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.

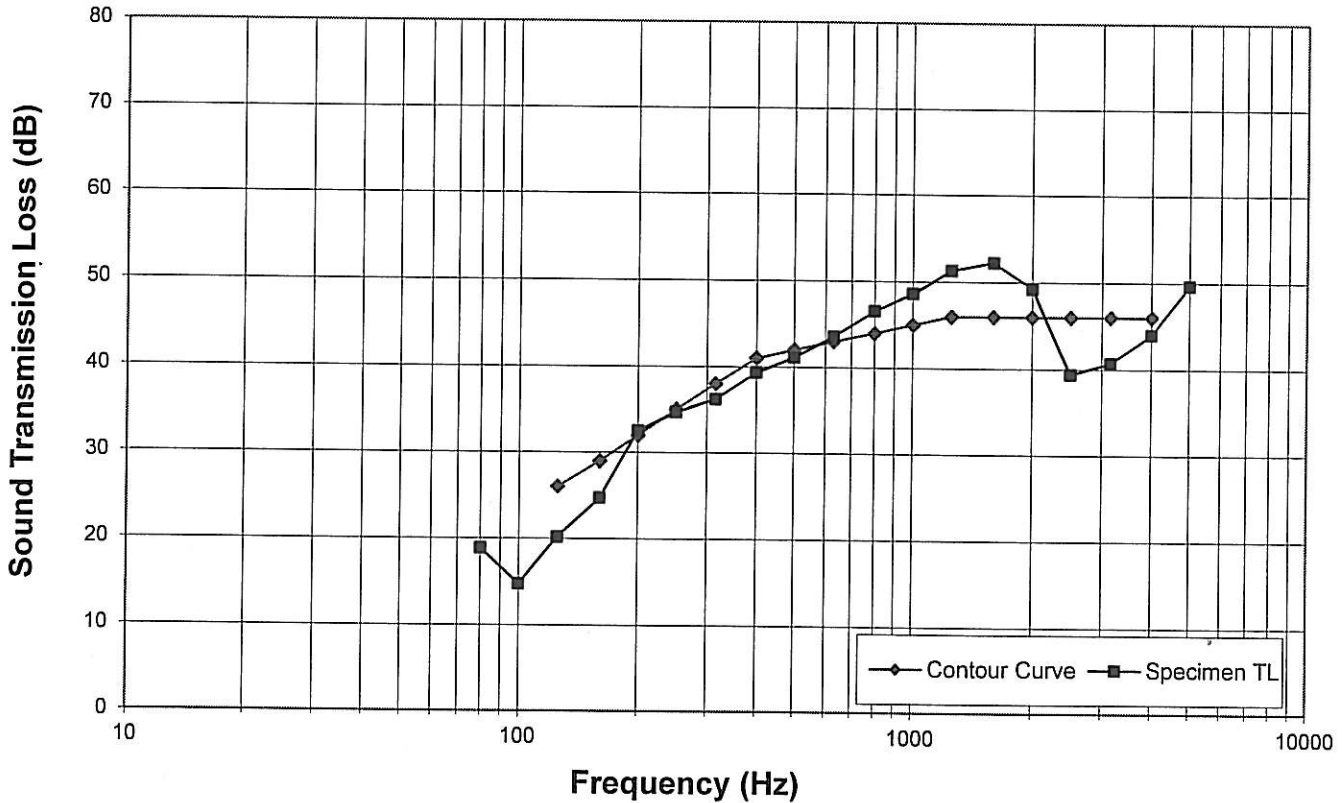
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Sound Transmission Loss



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.