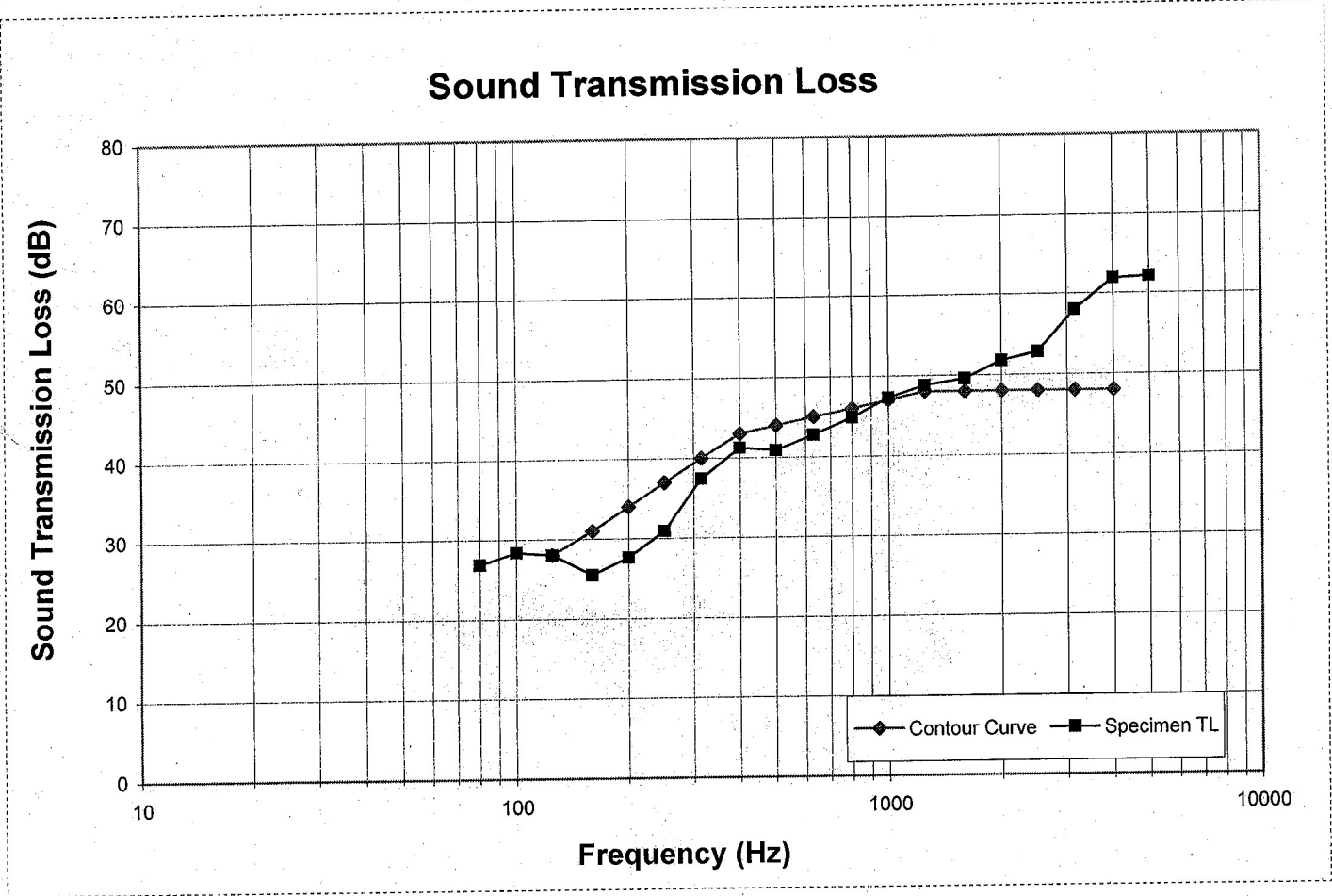




## SOUND TRANSMISSION LOSS

ASTM E 90

<b>Test Date</b>	03/14/14		
<b>ATI No.</b>	D6018.01		
<b>Client</b>	All Seasons		
<b>Specimen</b>	Series/Model: A3250, Project-out awning window with 1-3/4" IG (5/16" laminated exterior, 1/2" air space, 1/8" annealed, 1/2" air space, 5/16" laminated interior)		
<b>Operator</b>	Daniel P. Platts		
<b>Sample Area</b>	0.91 m <sup>2</sup>		
<b>Filler Area</b>	12.08 m <sup>2</sup>		
	Source	Receive	Sample
<b>Temp C</b>	22	22	22
<b>RH %</b>	52	49	50



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 deficiency at any one frequency cannot exceed 8.



## SOUND TRANSMISSION LOSS

ASTM E 90

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<b>ATI No.</b>	D6018.01		
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<b>Sample Area</b>	0.91 m <sup>2</sup>		
<b>Filler Area</b>	12.08 m <sup>2</sup>		
	Source	Receive	Specimen
<b>Temp C</b>	22	22	22
<b>RH %</b>	52	49	50

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	39	5.7	93	60	34	27	1.7	-	
100	34	4.9	99	65	40	28	2.8	-	
125	38	4.6	104	69	47	28	2.2	0	8.6
160	34	4.6	105	73	47	25	1.8	6	10.3
200	31	5.2	111	76	51	28	1.0	6	12.5
250	29	5.8	110	71	54	31	1.0	6	12.2
315	25	5.7	107	63	57	37	0.6	3	9.1
400	22	5.8	106	57	63	41	1.1	2	10.7
500	18	5.9	107	58	68	41	0.6	3	15.5
630	20	5.7	110	60	72	43	0.4	2	17.7
800	14	6.0	111	58	76	45	0.4	1	20.0
1000	12	6.1	110	54	81	47	0.4	0	22.0
1250	10	6.9	110	52	82	49	0.3	0	22.3
1600	8	7.0	116	57	83	50	0.4	0	21.8
2000	6	7.3	107	46	80	52	0.3	0	16.9
2500	6	8.5	103	41	83	53	0.2	0	18.8
3150	6	10.1	105	36	82	58	0.3	0	12.6
4000	7	12.3	103	30	84	62	0.2	0	11.6
5000	7	15.9	99	25	83	62	0.4	-	10.5

**STC Rating**      **44**      (*Sound Transmission Class*)  
**Deficiencies**    **29**      (*Number of deficiencies versus contour curve*)  
**OITC Rating**    **35**      (*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.