



AIRBORNE SOUND TRANSMISSION LOSS

ASTM E 90

Test Date	05/05/16						
Data File No.	F8386.01						
Client	Dual Action Windows, LLC						
Description	Series/Model: DAW Alu72 tilt and turn window with 1-13/16" IG(1/2" laminated exterior, 1" air space, 5/16" laminated exterior) Glass temperature 75°F						
Specimen Area	1.80 m ²	Receive Temp.	23.5 °C		Source Temp.	22.5 °C	
Technician	Leeland S. Hoov	Receive Humidity	48%		Source Humidity	51%	

Freq (Hz)	Background SPL (dB)	Absorption (m ²)	Source SPL (dB)	Receive SPL (dB)	Specimen TL (dB)	95% Confidence Limit	Number of Deficiencies
80	41.1	5.3	97	71	22.4	1.54	-
100	36.9	5.8	99	66	29.5	1.54	-
125	36.9	4.7	99	61	35.5	1.29	0
160	41.7	4.4	99	62	34.6	1.25	0
200	38.6	4.4	100	62	34.8	0.66	0
250	34.9	5.2	100	58	37.8	0.75	0
315	28.7	5.3	93	51	37.5	0.48	0
400	27.7	5.6	91	47	38.3	0.42	2
500	24.7	5.9	90	46	39.2	0.34	2
630	20.1	5.9	94	52	37.6	0.43	4
800	17.5	6.1	94	51	37.9	0.19	5
1000	18.6	6.2	91	50	35.7	0.28	8
1250	20.0	6.7	93	47	40.1	0.38	5
1600	15.3	6.9	93	43	44.4	0.34	1
2000	15.9	7.4	89	35	47.8	0.46	0
2500	12.8	8.3	86	31	48.8	0.19	0
3150	12.5	10.0	86	29	50.3	0.50	0
4000	12.8	12.2	85	23	53.0	0.57	0
5000	11.7	15.6	84	21	53.6	0.82	-

STC Rating **41** *(Sound Transmission Class)*
Deficiencies **27** *(Sum of Deficiencies)*
OITC Rating **37** *(Outdoor-Indoor Transmission Class)*

- Notes:**
- 1) Receive Room levels less than 5 dB above the Background levels are red.
 - 2) Specimen TL levels listed in red indicate the lower limit of the transmission loss.
 - 3) Specimen TL levels listed in green indicate that there has been a filler wall correction applied

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