



AIRBORNE SOUND TRANSMISSION LOSS

ASTM E 90

Test Date	05/05/16						
Data File No.	F8387.01						
Client	Dual Action Windows, LLC						
Description	Series/Model: DAW 82+ tilt and turn window with 1-1/2" IG(1/2" laminated exterior, 11/16" air space, 5/16" laminated interior) Glass temperature 75°F						
Specimen Area	1.80 m ²	Receive Temp.	22.9 °C		Source Temp.	21.8 °C	
Technician	Leeland S. Hoov	Receive Humidity	51%		Source Humidity	53%	

Freq (Hz)	Background SPL (dB)	Absorption (m ²)	Source SPL (dB)	Receive SPL (dB)	Specimen TL (dB)	95% Confidence Limit	Number of Deficiencies
80	37.3	5.1	98	70	24.0	1.45	-
100	35.6	5.5	99	65	30.7	1.41	-
125	35.0	4.8	99	63	32.8	1.13	0
160	39.7	4.5	99	64	32.0	1.13	0
200	37.7	4.5	101	63	33.8	0.67	1
250	33.9	5.0	100	58	37.8	0.85	0
315	27.2	5.2	93	49	39.9	0.53	1
400	23.8	5.6	91	46	40.1	0.40	4
500	20.3	5.8	90	43	42.0	0.44	3
630	19.8	5.5	94	45	44.6	0.38	1
800	18.3	5.8	94	42	47.1	0.23	0
1000	18.0	6.0	91	38	48.0	0.22	0
1250	18.4	6.6	93	39	48.6	0.41	0
1600	12.4	6.9	93	40	47.1	0.39	2
2000	14.4	7.4	89	38	45.3	0.42	4
2500	12.7	8.3	86	37	42.9	0.28	6
3150	12.3	9.9	86	34	45.2	0.51	4
4000	11.7	12.4	85	27	49.2	0.46	0
5000	11.0	15.4	84	22	52.7	0.76	-

STC Rating **45** *(Sound Transmission Class)*
Deficiencies **26** *(Sum of Deficiencies)*
OITC Rating **38** *(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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