



### AIRBORNE SOUND TRANSMISSION LOSS

ASTM E 90

<b>Test Date</b>	05/05/16						
<b>Data File No.</b>	F8388.01B						
<b>Client</b>	Dual Action Windows, LLC						
<b>Description</b>	Series/Model: DAW Alu72, Side Entry Door, with 1-13/16" IG(1/2" laminated exterior, 1" air space, 5/16" laminated interior) Glass temperature 75°F						
<b>Specimen Area</b>	2.22 m <sup>2</sup>	Receive Temp.	22.2 °C		Source Temp.	21.3 °C	
<b>Technician</b>	Leeland S. Hoov	Receive Humidity	51%		Source Humidity	53%	

Freq (Hz)	Background SPL (dB)	Absorption (m <sup>2</sup> )	Source SPL (dB)	Receive SPL (dB)	Specimen TL (dB)	95% Confidence Limit	Number of Deficiencies
80	36.6	5.1	97	68	26.4	1.93	-
100	35.8	5.7	99	68	28.1	1.95	-
125	37.3	5.0	100	65	32.7	1.41	0
160	40.3	4.6	99	60	37.9	1.23	0
200	38.7	4.5	101	62	35.6	0.64	0
250	34.7	5.1	100	60	36.3	0.69	0
315	27.9	5.3	94	54	36.3	0.50	2
400	24.5	5.6	91	50	36.4	0.23	5
500	21.1	5.8	90	49	36.6	0.44	5
630	19.4	5.6	94	52	38.6	0.42	4
800	17.7	5.8	94	51	39.2	0.32	5
1000	12.6	6.0	92	45	42.0	0.19	3
1250	10.9	6.6	93	46	42.7	0.23	3
1600	8.1	6.9	94	44	44.8	0.26	1
2000	7.1	7.4	89	39	44.7	0.29	1
2500	5.5	8.4	86	36	44.6	0.27	1
3150	5.3	10.0	86	34	45.6	0.36	0
4000	6.0	12.2	85	33	44.1	0.49	2
5000	7.0	15.6	84	29	46.6	0.79	-

**STC Rating**            **42**            *(Sound Transmission Class)*  
**Deficiencies**        **32**            *(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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