

AIRBORNE SOUND TRANSMISSION LOSS

ASTM E 90

Test Date	05/05/16						
Data File No.	F8389.01						
Client	Superior Windows & Doors, LLC						
Description	Series/Model: ? Entry door, with 1-1/2"IG(1/2" laminated exterior, 11/16" air space, 5/16" laminated interior) Glass temperature 75°F						
Specimen Area	2.22 m ²	Receive Temp.	21.8 °C		Source Temp.	20.8 °C	
Technician	Leeland S. Hoov	Receive Humidity	48%		Source Humidity	49%	

Freq (Hz)	Background SPL (dB)	Absorption (m ²)	Source SPL (dB)	Receive SPL (dB)	Specimen TL (dB)	95% Confidence Limit	Number of Deficiencies
80	37.5	5.2	97	68	26.3	2.53	-
100	37.2	5.3	99	65	31.2	1.71	-
125	36.8	5.2	99	66	30.6	0.98	0
160	40.7	4.7	99	63	34.4	1.15	0
200	39.5	4.4	101	61	37.4	0.78	0
250	35.6	5.1	100	60	36.4	0.71	0
315	28.7	5.3	94	52	37.7	0.51	1
400	24.4	5.6	91	48	39.0	0.22	3
500	20.8	5.7	90	44	41.3	0.39	2
630	19.7	5.5	94	47	43.2	0.48	1
800	18.0	5.8	94	46	43.7	0.29	1
1000	14.7	5.9	91	44	43.0	0.23	3
1250	10.9	6.6	93	48	40.1	0.22	7
1600	8.7	7.0	93	48	40.0	0.27	7
2000	6.4	7.4	89	43	40.9	0.19	6
2500	5.9	8.3	86	33	47.0	0.25	0
3150	7.3	10.1	86	32	48.0	0.29	0
4000	5.9	12.6	85	27	49.5	0.47	0
5000	6.6	16.0	83	21	53.4	0.76	-

STC Rating **43** *(Sound Transmission Class)*
Deficiencies **31** *(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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Airborne Sound Transmission Loss

