



Acoustic Test Results for PET Sheet - Miixfelt™ by Lumii Design

Tests conducted by the University of Salford Acoustic Test Laboratory on 11th July 2023

Tests conducted in accordance BS EN ISO 354: 2003 (Measurements of Absorption in Reverberation Room)

V1: Test data collated from source test results.
 V2: Test results produced by University of Salford 11th July 2023.
 V3: Document revised 14th November 2023 - SAA results added.



Thickness	Result type	No Air Gap	50mm Air Gap	100mm Air Gap	200mm Air Gap	Notes:
9mm	aw rating	0.25	0.65	0.9	0.9	Frequencies (Hz) range of 125 to 5000Hz
	Absorption Class	E	C	A	A	Class of absorption in accordance with BS EN ISO 11654:1997
	as coefficient @ 2000 Hz	0.7	0.95	0.85*	0.95	Average frequency of adult speech
	SAA rating - NRC Replacement	0.32	0.72	0.85	0.9	American Standard (Sound Absorption Coefficient), replaces NRC rating
12mm	aw rating	0.25	0.65	0.9	0.95	Frequencies (Hz) range of 125 to 5000Hz
	Absorption Class	E	C	A	A	Class of absorption in accordance with BS EN ISO 11654:1997
	as coefficient @ 2000 Hz	0.85	1.00	1*	1.00	Average frequency of adult speech
	SAA rating - NRC Replacement	0.41	0.76	0.87	0.92	American Standard (Sound Absorption Coefficient), replaces NRC rating
18mm	aw rating	0.45	0.8	0.95	1	Frequencies (Hz) range of 125 to 5000Hz
	Absorption Class	D	B	A	A	Class of absorption in accordance with BS EN ISO 11654:1997
	as coefficient @ 2000 Hz	1	1	1	1	Average frequency of adult speech
	SAA rating - NRC Replacement	0.6	0.84	0.91	0.95	American Standard (Sound Absorption Coefficient), replaces NRC rating
24mm	aw rating	0.5	0.85	1	1	Frequencies (Hz) range of 125 to 5000Hz
	Absorption Class	D	B	A	A	Class of absorption in accordance with BS EN ISO 11654:1997
	as coefficient @ 2000 Hz	1	1	1	1	Average frequency of adult speech
	SAA rating - NRC Replacement	0.7	0.89	0.94	0.97	American Standard (Sound Absorption Coefficient), replaces NRC rating

Notes:

- University of Salford test procedure is strictly conducted in accordance with BS EN ISO 354. Full test measurement report available on request.
- aw (alpha weighted) rating has been calculated in accordance with BS EN 11654:1997 (sound absorbers for use in buildings)
- BS EN 11654:1997 includes a table for expressing aw values as a single letter e.g. Absorption Class
- as rating is the absorption coefficient at a particular frequency
- SAA ratings are an American standard, widely used as a simple rating of absorption performance. Replaces previously titled NRC testing
- as coefficient affected by resonance during test at this frequency & air gap dimension, marked by *

