Test data sheet
BASWA Natural acoustic system

Technical and test information

General	BASWA acoustic uses independent third party labs to perform testing. Full report summaries are available. For further information about BASWA products, systems, or safety data, refer to the BASWA product data sheets, system data sheets, and safety data sheets.
Fire rating	Class C fire rated per ASTM E84
Mold and mildew	Rated 10 / 10, signifying no mold growth per ASTM D 3273-16
VOC content	≤ 0.5 mg/m³ , Passing CA Dept. of Public Health CDPH/EHLB/Standard Method Vers 1.2, 2017 USGBC LEED Version 4, BD&C, ID&C The WELL Building Standard ANSI/GBI 01, Green Building Asessment Protocol ANSI/ASHRAE/USGBC/IES Standard 189.1
Light reflectance	Light Reflectance L Value of 91.03 per the ASTM E 1477

Thermal conductivity

Thickness	(W / (m*K)	R-value
30 mm	0.43	R-4.0
40 mm	0.41	R-5.5

Sustainability data	LEED, WELL, LBC, HPD, and EPD documentation available. For sustainability information about BASWA systems and products refer to BASWA sustainability data sheets.
Disclaimer	Due to widely varying application conditions, a guarantee for installed materials cannot be reliant on this information. Product specifications are subject to change without notice. All rights reserved. Changes, reprints and copies, as well as electronic, reproduction, even in excerpts, require the explicit permission from BASWA acoustic North America.

Acoustical absorption

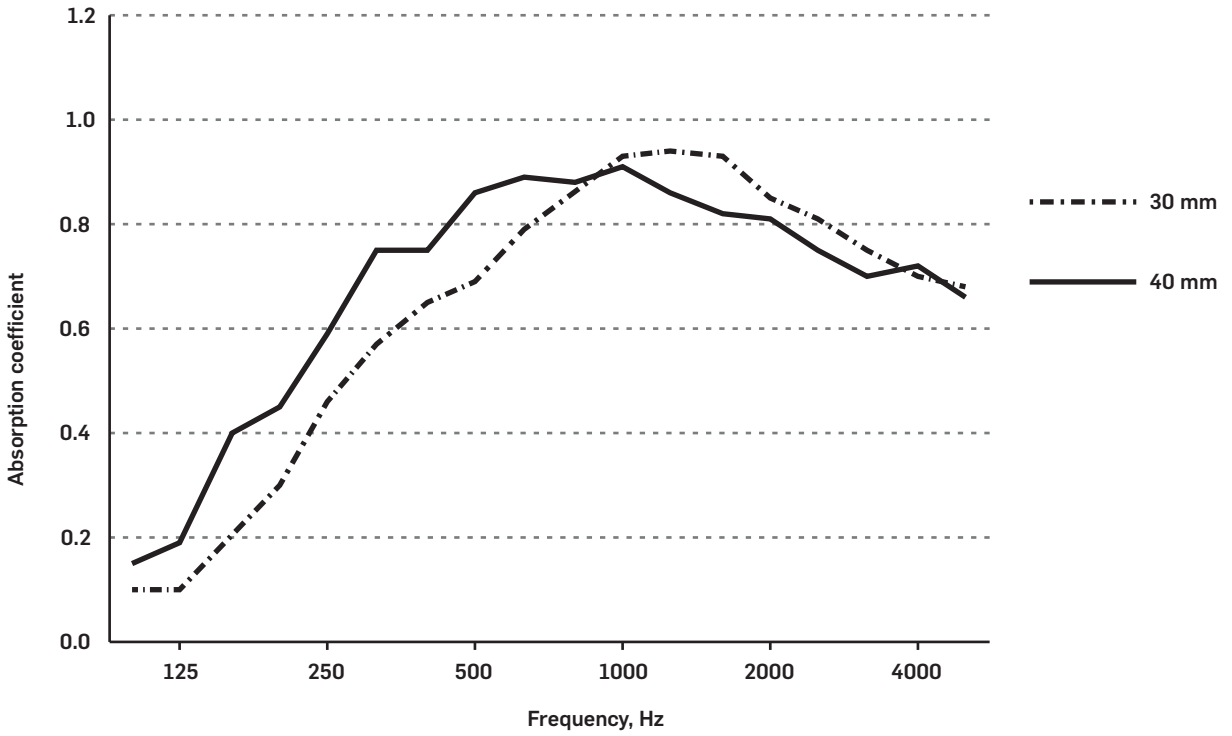
BASWA Natural Classic Fine **A Mounting** System on concrete. No plenum.

Ratings per EN ISO test data

	α_w	NRC	SAA
30 mm	0.70	0.75	0.73
40 mm	0.80	0.80	0.78

Frequency absorption

	Frequency, Hz																	
	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
30 mm	0.10	0.10	0.21	0.30	0.46	0.57	0.65	0.69	0.79	0.86	0.93	0.94	0.93	0.85	0.81	0.75	0.70	0.68
40 mm	0.15	0.19	0.40	0.45	0.59	0.75	0.75	0.86	0.89	0.88	0.91	0.86	0.82	0.81	0.75	0.70	0.72	0.66



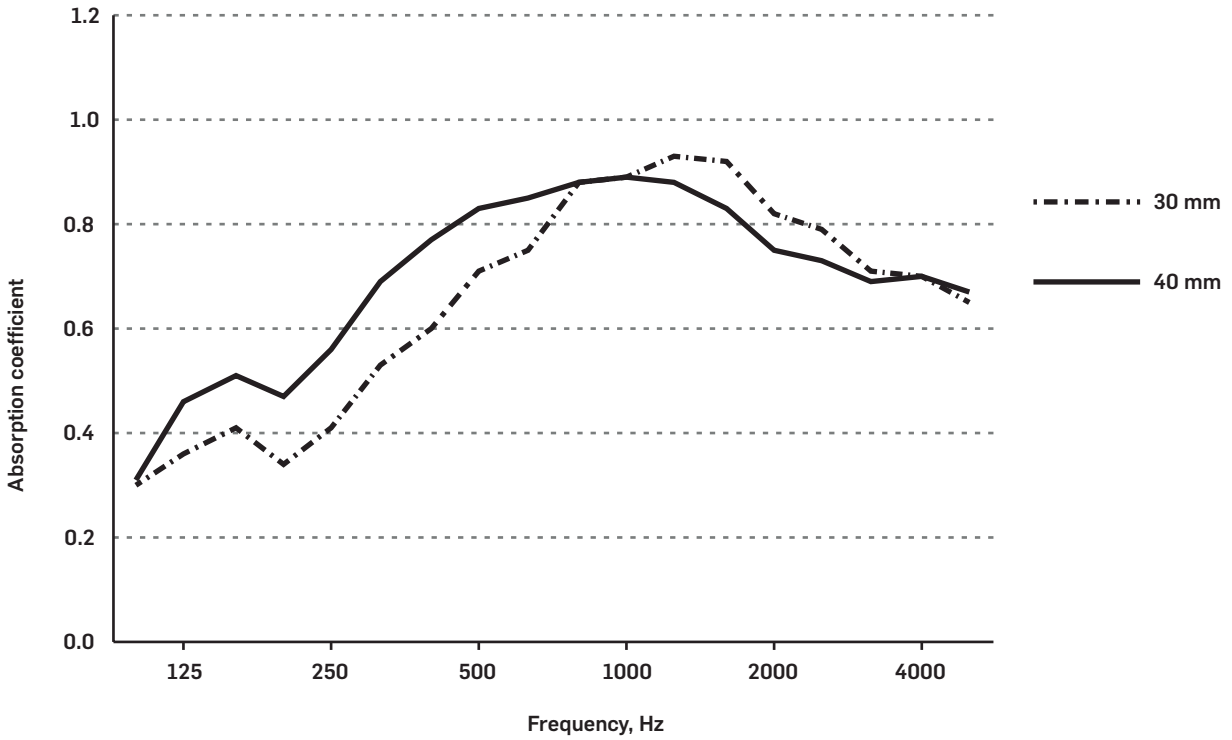
BASWA Natural Classic Fine **E-200 Mounting** System with 200 mm (8 in.) plenum.

Ratings per EN ISO test data

	α_w	NRC	SAA
30 mm	0.70	0.70	0.71
40 mm	0.80	0.75	0.76

Frequency absorption

	Frequency, Hz																	
	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
30 mm	0.30	0.36	0.41	0.34	0.41	0.53	0.60	0.71	0.75	0.88	0.89	0.93	0.92	0.82	0.79	0.71	0.70	0.65
40 mm	0.31	0.46	0.51	0.47	0.56	0.69	0.77	0.83	0.85	0.88	0.89	0.88	0.83	0.75	0.73	0.69	0.70	0.67



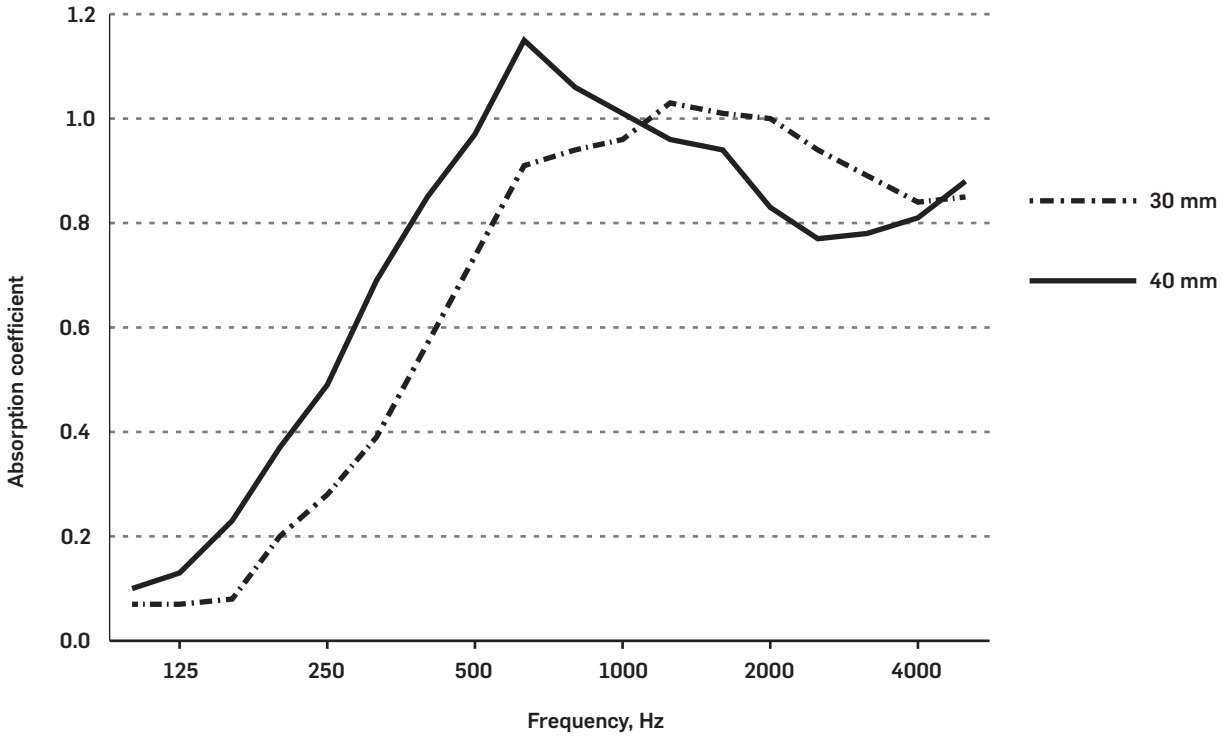
BASWA Natural Classic Base **A Mounting** System on concrete. No plenum.

Ratings per EN ISO test data

	α_w	NRC	SAA
30 mm	0.60 (MH)	0.75	0.75
40 mm	0.80	0.80	0.84

Frequency absorption

	Frequency, Hz																	
	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
30 mm	0.07	0.07	0.08	0.20	0.28	0.39	0.57	0.73	0.91	0.94	0.96	1.03	1.01	1.00	0.94	0.89	0.84	0.85
40 mm	0.10	0.13	0.23	0.37	0.49	0.69	0.85	0.97	1.15	1.06	1.01	0.96	0.94	0.83	0.77	0.78	0.81	0.88



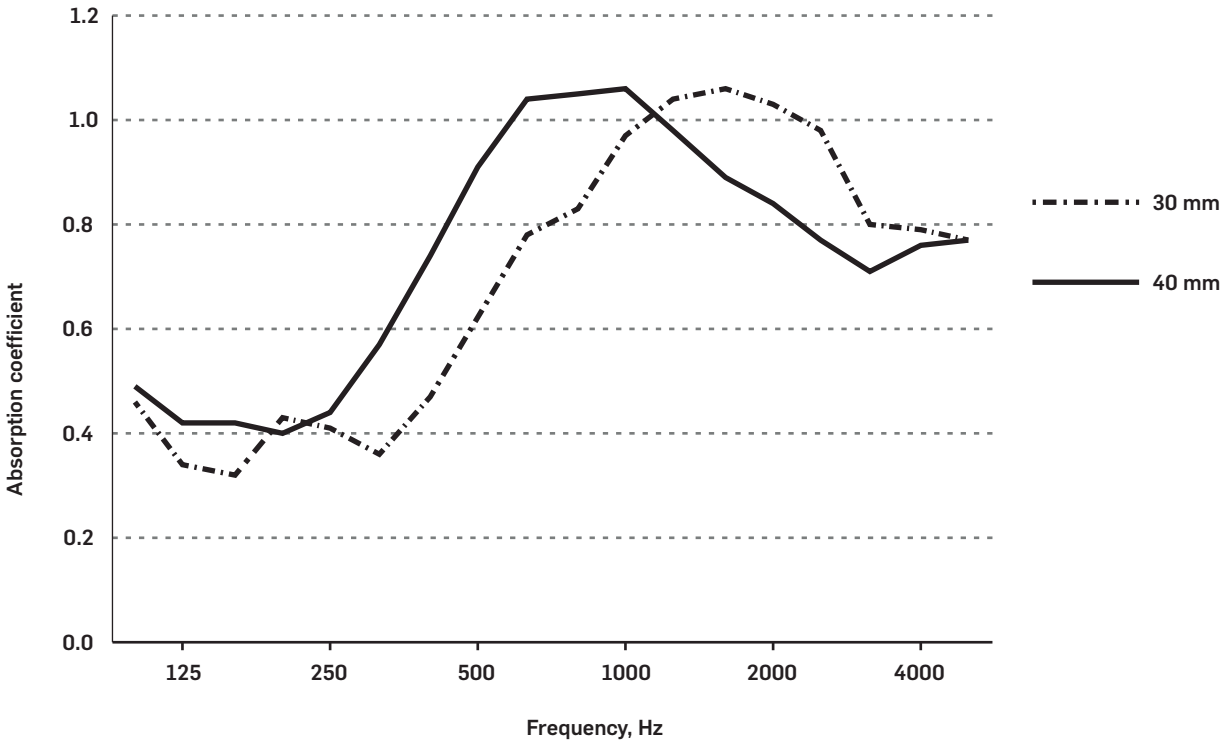
BASWA Natural Classic Base **E-200 Mounting** System with 200 mm (8 in.) plenum.

Ratings per EN ISO test data

	α_w	NRC	SAA
30 mm	0.65 (MH)	0.75	0.75
40 mm	0.75 (M)	0.80	0.81

Frequency absorption

	Frequency, Hz																	
	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
30 mm	0.46	0.34	0.32	0.43	0.41	0.36	0.47	0.63	0.78	0.83	0.97	1.04	1.06	1.03	0.98	0.80	0.79	0.77
40 mm	0.49	0.42	0.42	0.40	0.44	0.57	0.74	0.91	1.04	1.05	1.06	0.98	0.89	0.84	0.77	0.71	0.76	0.77



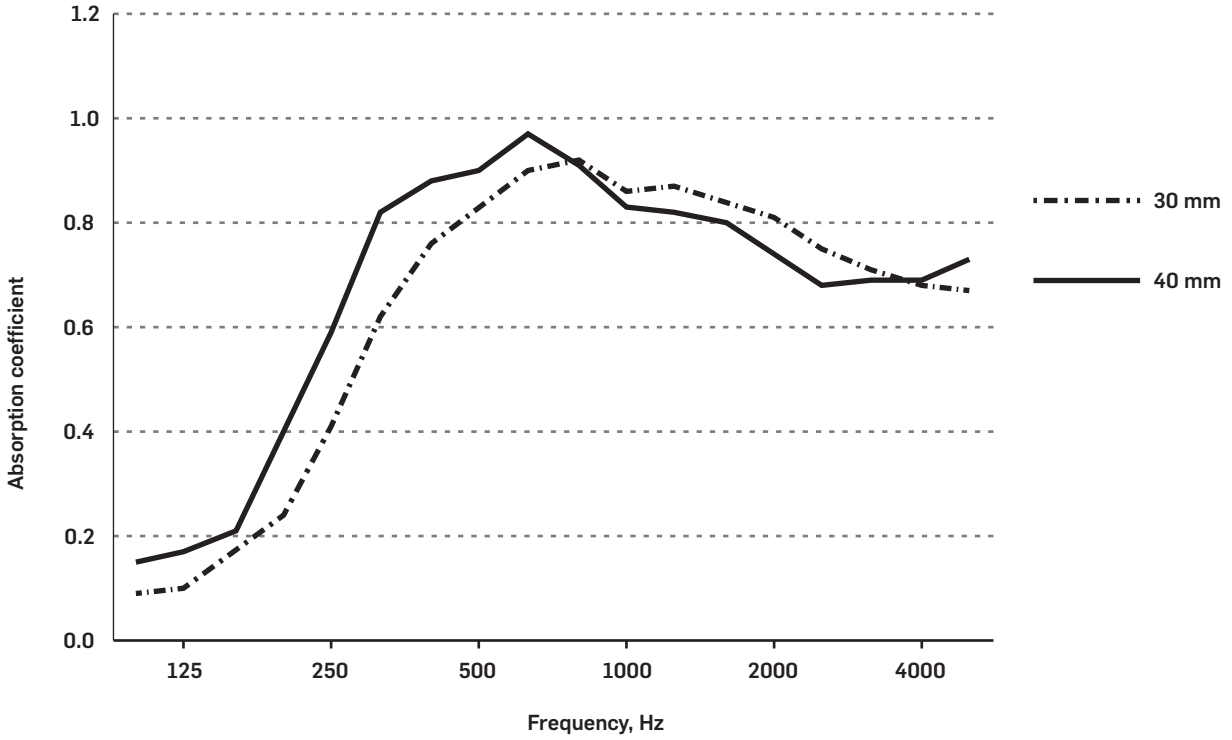
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	α_w	NRC	SAA
30 mm	0.70	0.75	0.73
40 mm	0.80	0.75	0.78

Frequency absorption

	Frequency, Hz																	
	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
30 mm	0.09	0.10	0.17	0.24	0.41	0.62	0.76	0.83	0.90	0.92	0.86	0.87	0.84	0.81	0.75	0.71	0.68	0.67
40 mm	0.15	0.17	0.21	0.40	0.59	0.82	0.88	0.90	0.97	0.91	0.83	0.82	0.80	0.74	0.68	0.69	0.69	0.73



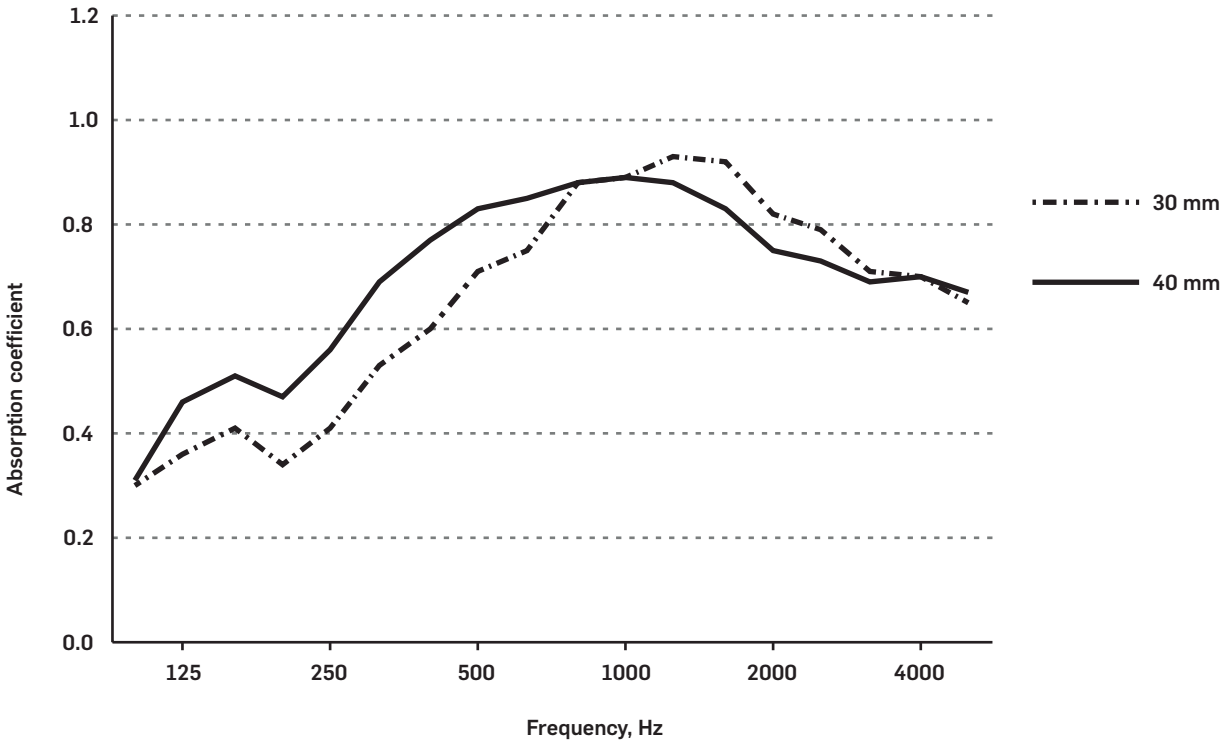
BASWA Natural Fine **E-200 Mounting** System with 200 mm (8 in.) plenum.

Ratings per EN ISO test data

	α_w	NRC	SAA
30 mm	0.70	0.70	0.68
40 mm	0.70	0.70	0.71

Frequency absorption

	Frequency, Hz																	
	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
30 mm	0.49	0.37	0.34	0.35	0.37	0.41	0.57	0.75	0.83	0.85	0.86	0.84	0.80	0.77	0.73	0.66	0.62	0.58
40 mm	0.50	0.40	0.39	0.33	0.43	0.61	0.75	0.85	0.90	0.89	0.86	0.81	0.77	0.70	0.65	0.59	0.63	0.62



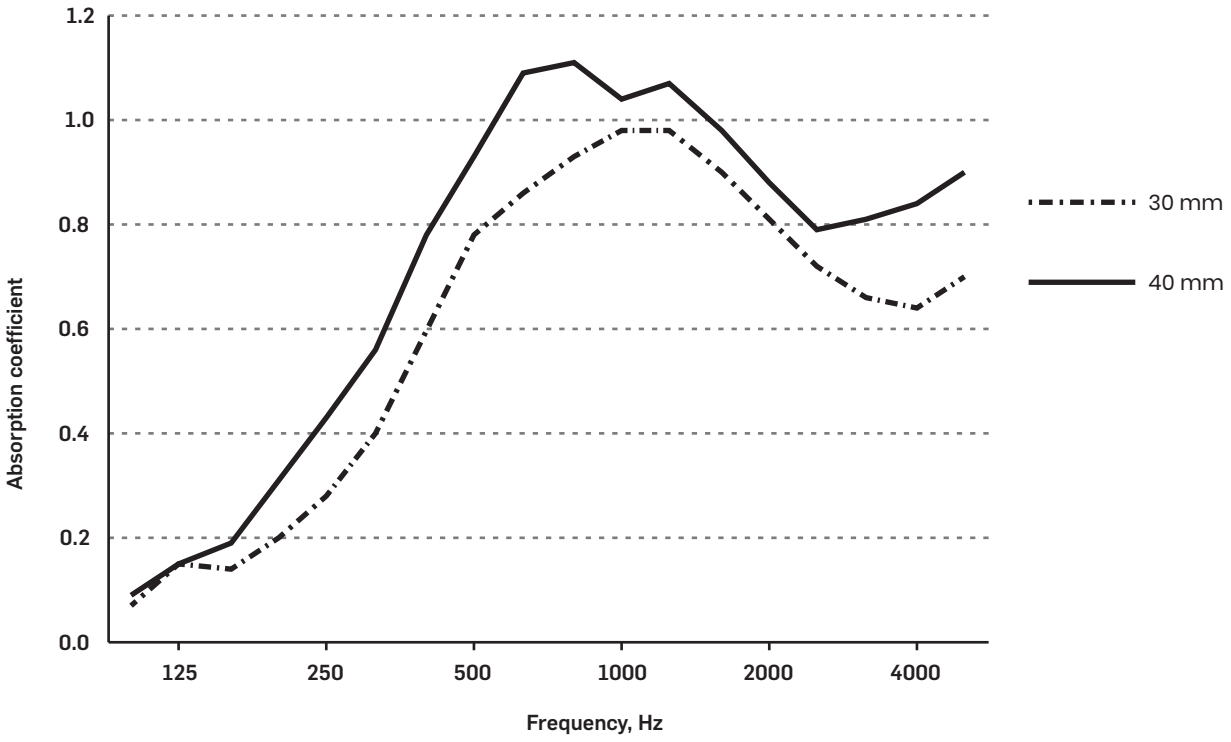
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Ratings per EN ISO test data

	α_w	NRC	SAA
30 mm	0.60 (M)	0.70	0.70
40 mm	0.75 (M)	0.80	0.83

Frequency absorption

	Frequency, Hz																	
	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
30 mm	0.07	0.15	0.14	0.20	0.28	0.40	0.59	0.78	0.86	0.93	0.98	0.98	0.90	0.81	0.72	0.66	0.64	0.70
40 mm	0.09	0.15	0.19	0.31	0.43	0.56	0.78	0.93	1.09	1.11	1.04	1.07	0.98	0.88	0.79	0.81	0.84	0.90



BASWA Natural Base **E-200 Mounting** System with 200 mm (8 in.) plenum.

Ratings per EN ISO test data

	α_w	NRC	SAA
30 mm	0.65 (M)	0.70	0.67
40 mm	0.75 (M)	0.85	0.82

Frequency absorption

	Frequency, Hz																	
	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
30 mm	0.24	0.25	0.27	0.39	0.39	0.37	0.44	0.63	0.74	0.87	0.94	0.94	0.90	0.79	0.69	0.63	0.59	0.62
40 mm	0.45	0.41	0.40	0.41	0.44	0.55	0.72	0.90	1.03	1.04	1.06	1.03	0.97	0.91	0.83	0.74	0.83	0.90

