



Test data sheet

BASWA Phon 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 A fire rated per ASTM E84

Mold and mildew Rated 10 / 10, signifying no mold growth per ASTM D 3273-16

VOC content $\leq 0.5 \text{ mg/m}^3$, 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 Assessment Protocol
ANSI/ASHRAE/USGBC/IES Standard 189.1

Light reflectance Light Reflectance L Value of 91.03 per the ASTM E 1477-98

Thermal conductivity	Thickness	1/U	U (W/m ² K)	λ (W/m K)	R (m ² K/W)
	30 mm	0.68	1.47	0.044	0.68
	40 mm	0.97	1.03	0.041	0.97
	70 mm	1.82	0.55	0.038	1.82

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 Phon Classic Fine

A Mounting ASTM C423

System on concrete slab. No plenum.

NRC ratings

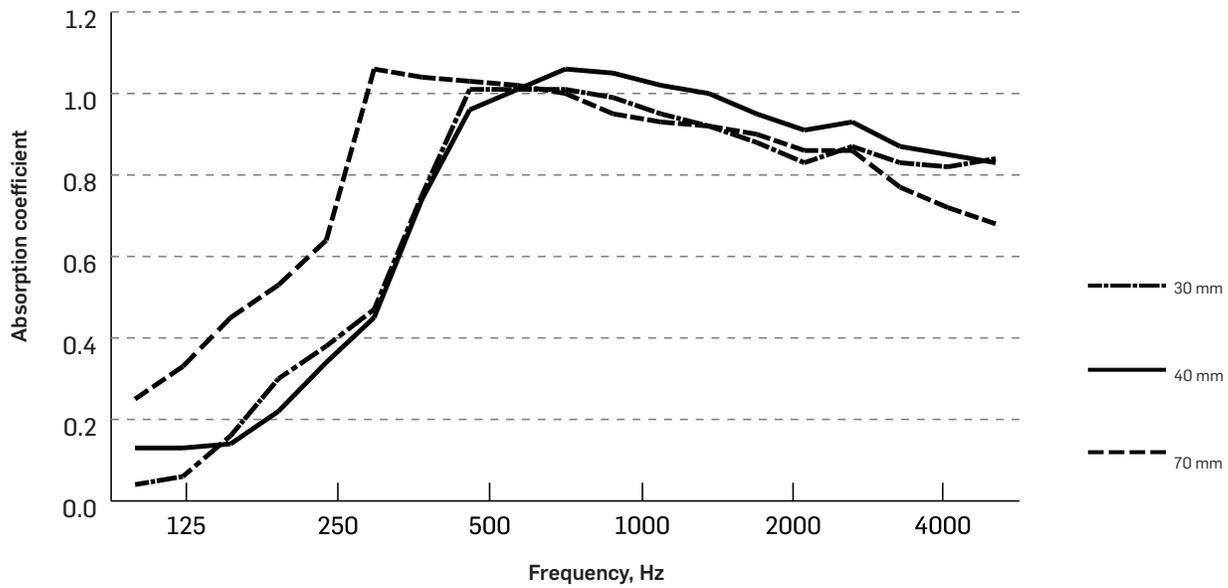
30 mm	0.80
40 mm	0.85
70 mm	0.95

SAA ratings

30 mm	0.84
40 mm	0.87
70 mm	0.93

Frequency absorption

	Frequency, Hz																		
	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
30 mm	0.04	0.06	0.16	0.30	0.38	0.47	0.75	1.01	1.01	1.01	0.99	0.95	0.92	0.88	0.83	0.87	0.83	0.82	0.84
40 mm	0.13	0.13	0.14	0.22	0.34	0.45	0.74	0.96	1.01	1.06	1.05	1.02	1.00	0.95	0.91	0.93	0.87	0.85	0.83
70 mm	0.25	0.33	0.45	0.53	0.64	1.06	1.04	1.03	1.02	1.00	0.95	0.93	0.92	0.90	0.86	0.86	0.77	0.72	0.68



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BASWA Phon Classic Fine

E Mounting ASTM C423

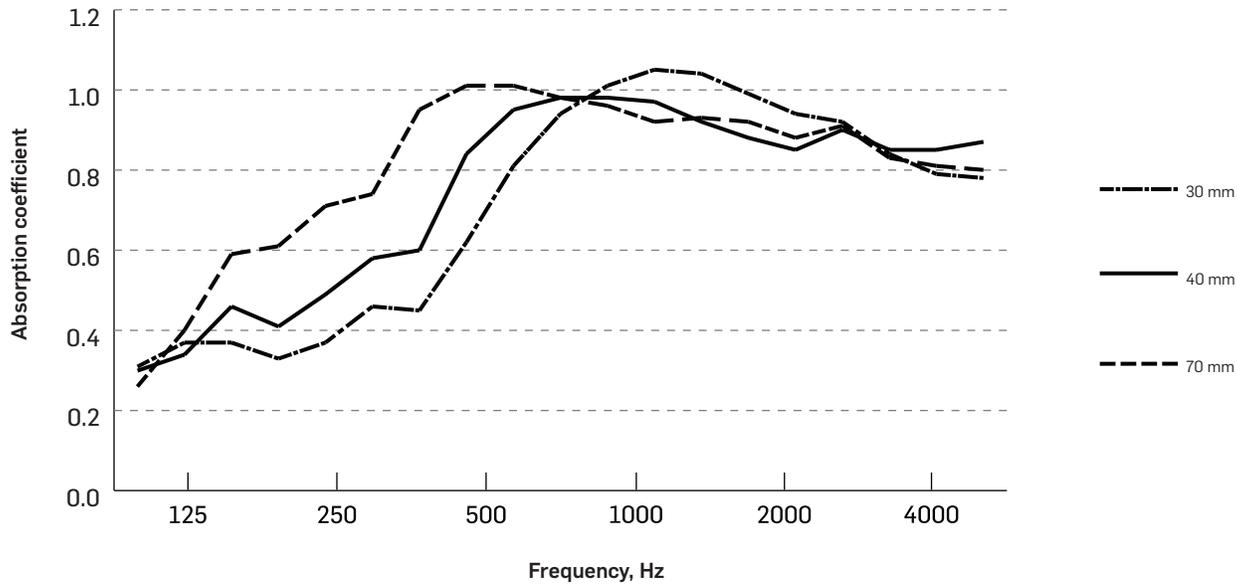
System with plenum. Typical installed conditions.

NRC ratings 30 mm 0.80
 40 mm 0.85
 70 mm 0.90

SAA ratings 30 mm 0.80
 40 mm 0.83
 70 mm 0.91

Frequency absorption

	Frequency, Hz																			
	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	
30 mm	0.31	0.37	0.37	0.33	0.37	0.46	0.45	0.62	0.81	0.94	1.01	1.05	1.04	0.99	0.94	0.92	0.84	0.79	0.78	
40 mm	0.30	0.34	0.46	0.41	0.49	0.58	0.60	0.84	0.95	0.98	0.98	0.97	0.92	0.88	0.85	0.90	0.85	0.85	0.87	
70 mm	0.26	0.40	0.59	0.61	0.71	0.74	0.95	1.01	1.01	0.98	0.96	0.92	0.93	0.92	0.88	0.91	0.83	0.81	0.80	



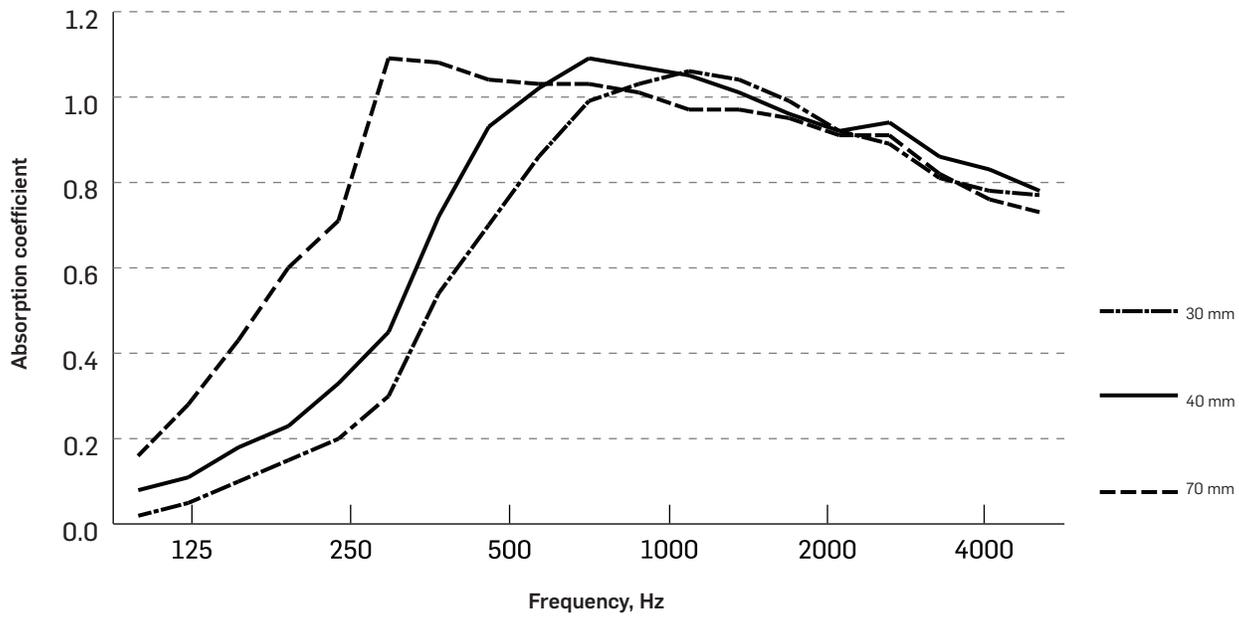
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NRC ratings	30 mm	0.80
	40 mm	0.85
	70 mm	1.00

SAA ratings	30 mm	0.79
	40 mm	0.87
	70 mm	0.98

Frequency absorption

	Frequency, Hz																			
	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	
30 mm	0.02	0.05	0.10	0.15	0.20	0.30	0.54	0.70	0.86	0.99	1.03	1.06	1.04	0.99	0.92	0.89	0.81	0.78	0.77	
40 mm	0.08	0.11	0.18	0.23	0.33	0.45	0.72	0.93	1.02	1.09	1.07	1.05	1.01	0.96	0.92	0.94	0.86	0.83	0.78	
70 mm	0.16	0.28	0.43	0.60	0.71	1.09	1.08	1.04	1.03	1.03	1.01	0.97	0.97	0.95	0.91	0.91	0.82	0.76	0.73	

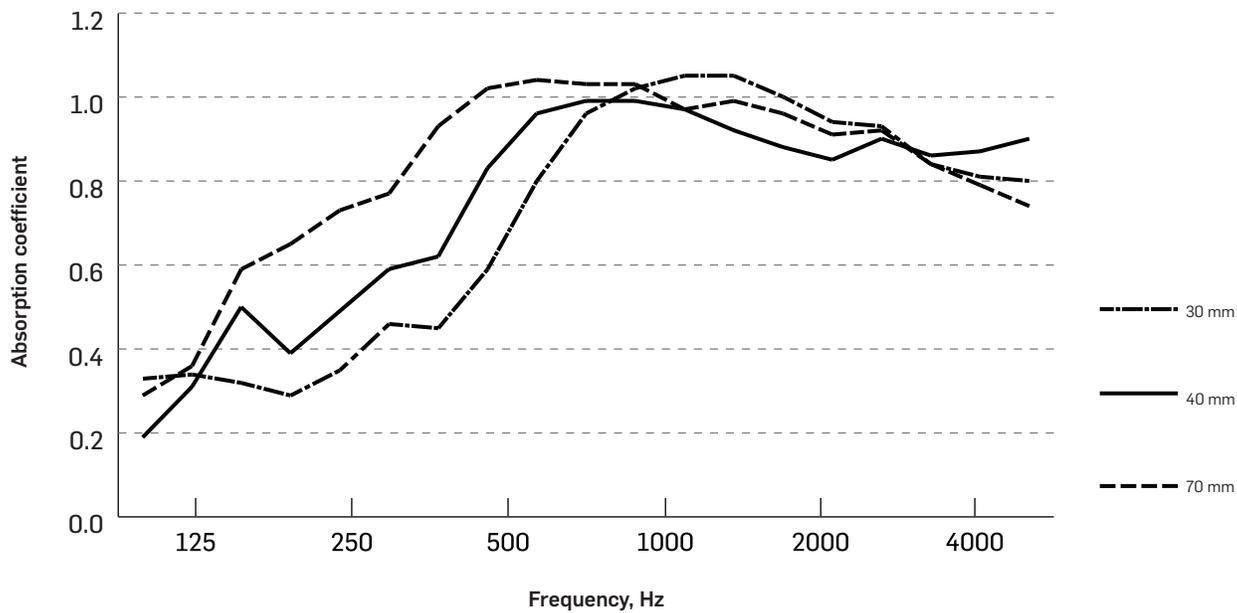


NRC ratings	30 mm	0.80
	40 mm	0.85
	70 mm	0.90

SAA ratings	30 mm	0.80
	40 mm	0.83
	70 mm	0.94

Frequency absorption

	Frequency, Hz																			
	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	
30 mm	0.33	0.34	0.32	0.29	0.35	0.46	0.45	0.59	0.80	0.96	1.02	1.05	1.05	1.00	0.94	0.93	0.84	0.81	0.80	
40 mm	0.19	0.31	0.50	0.39	0.49	0.59	0.62	0.83	0.96	0.99	0.99	0.97	0.92	0.88	0.85	0.90	0.86	0.87	0.90	
70 mm	0.29	0.36	0.59	0.65	0.73	0.77	0.93	1.02	1.04	1.03	1.03	0.97	0.99	0.96	0.91	0.92	0.84	0.79	0.74	



BASWA Phon Fine

A Mounting ASTM C423

System on concrete slab. No plenum.

NRC ratings 30 mm 0.80
 40 mm 0.85
 70 mm 1.00

SAA ratings 30 mm 0.80
 40 mm 0.87
 70 mm 0.97

Frequency absorption

	Frequency, Hz																			
	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	
30 mm	0.04	0.02	0.07	0.15	0.20	0.26	0.49	0.71	0.85	0.98	1.03	1.07	1.06	1.04	0.98	0.97	0.89	0.85	0.83	
40 mm	0.05	0.08	0.14	0.21	0.31	0.43	0.60	0.91	0.99	1.08	1.07	1.04	1.03	0.99	0.96	1.01	0.96	0.97	0.98	
70 mm	0.18	0.27	0.42	0.57	0.67	1.02	1.12	0.91	1.04	1.04	1.02	0.98	0.99	0.98	0.94	0.96	0.88	0.83	0.78	



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BASWA Phon Fine

E Mounting ASTM C423

System with plenum. Typical installed conditions.

NRC ratings 30 mm 0.80
 40 mm 0.85
 70 mm 0.95

SAA ratings 30 mm 0.81
 40 mm 0.82
 70 mm 0.96

Frequency absorption

	Frequency, Hz																			
	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	
30 mm	0.30	0.39	0.33	0.27	0.32	0.42	0.49	0.52	0.76	0.95	1.04	1.07	1.07	1.05	1.00	1.00	0.92	0.88	0.85	
40 mm	0.32	0.36	0.43	0.40	0.47	0.56	0.58	0.72	0.93	0.98	1.00	0.97	0.94	0.91	0.88	0.91	0.86	0.85	0.86	
70 mm	0.27	0.29	0.56	0.58	0.73	0.79	0.88	1.09	1.06	1.03	1.02	0.97	0.98	0.98	0.95	0.98	0.91	0.87	0.85	



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BASWA Phon Base

A Mounting ASTM C423

System on concrete slab. No plenum..

NRC ratings

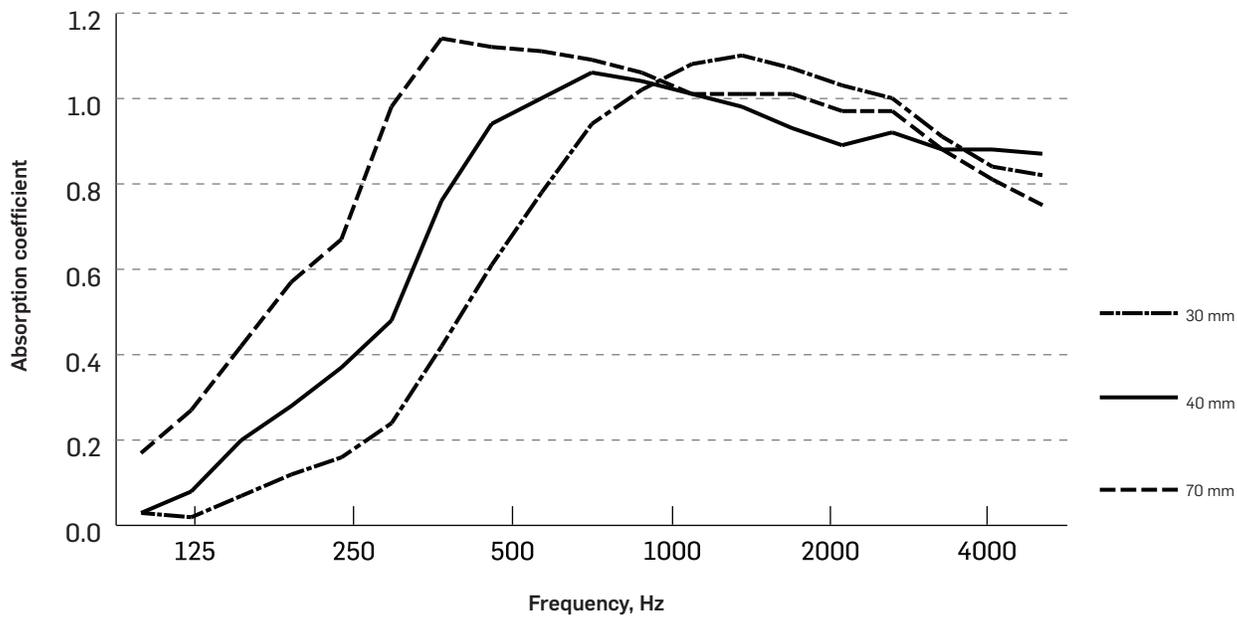
30 mm	0.80
40 mm	0.85
70 mm	1.00

SAA ratings

30 mm	0.79
40 mm	0.86
70 mm	1.01

Frequency absorption

	Frequency, Hz																		
	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
30 mm	0.03	0.02	0.07	0.12	0.16	0.24	0.42	0.61	0.78	0.94	1.02	1.08	1.10	1.07	1.03	1.00	0.91	0.84	0.84
40 mm	0.03	0.08	0.20	0.28	0.37	0.48	0.76	0.94	1.00	1.06	1.04	1.01	0.98	0.93	0.89	0.92	0.88	0.88	0.87
70 mm	0.17	0.27	0.42	0.57	0.67	0.98	1.14	1.12	1.11	1.09	1.06	1.01	1.01	1.01	0.97	0.97	0.88	0.81	0.75



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BASWA Phon Base

E Mounting ASTM C423

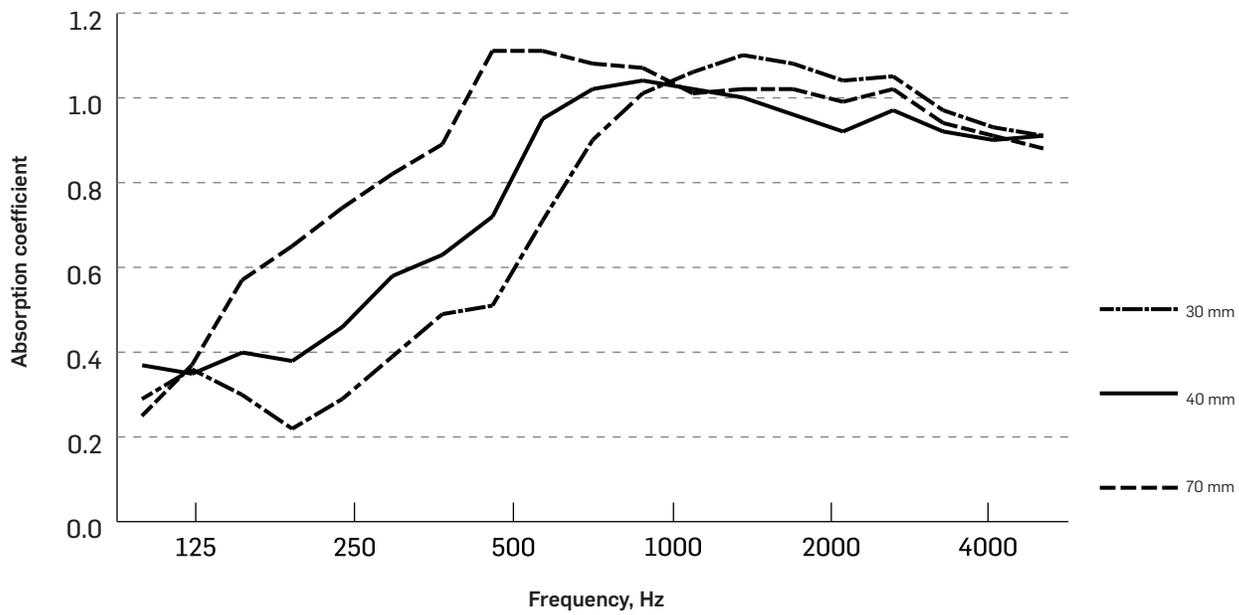
System with plenum. Typical installed conditions.

NRC ratings 30 mm 0.80
 40 mm 0.85
 70 mm 1.00

SAA ratings 30 mm 0.80
 40 mm 0.86
 70 mm 0.99

Frequency absorption

	Frequency, Hz																			
	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	
30 mm	0.29	0.36	0.30	0.22	0.29	0.39	0.49	0.51	0.71	0.90	1.01	1.06	1.10	1.08	1.04	1.05	0.97	0.93	0.91	
40 mm	0.37	0.35	0.40	0.38	0.46	0.58	0.63	0.72	0.95	1.02	1.04	1.02	1.00	0.96	0.92	0.97	0.92	0.90	0.91	
70 mm	0.25	0.37	0.57	0.65	0.74	0.82	0.89	1.11	1.11	1.08	1.07	1.01	1.02	1.02	0.99	1.02	0.94	0.91	0.88	



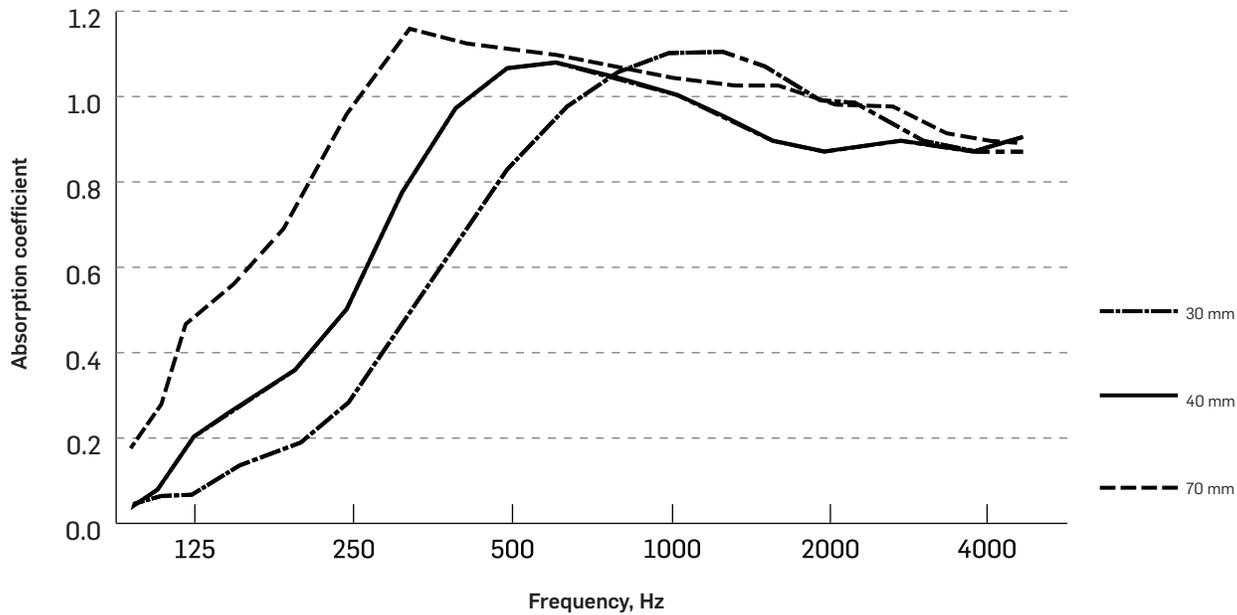
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NRC ratings	30 mm	0.80
	40 mm	0.85
	70 mm	1.00

SAA ratings	30 mm	0.84
	40 mm	0.86
	70 mm	1.02

Frequency absorption

	Frequency, Hz																			
	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	
30 mm	0.03	0.06	0.07	0.13	0.19	0.26	0.43	0.64	0.81	0.98	1.03	1.09	1.09	1.05	0.99	0.98	0.90	0.85	0.84	
40 mm	0.02	0.06	0.20	0.26	0.36	0.49	0.78	0.98	1.05	1.06	1.03	1.00	0.94	0.90	0.86	0.90	0.86	0.87	0.89	
70 mm	0.17	0.28	0.46	0.55	0.67	0.96	1.17	1.13	1.12	1.08	1.05	1.03	1.01	1.01	0.98	0.98	0.91	0.88	0.85	



BASWA Phon Frost

E Mounting ASTM C423

System with plenum. Typical installed conditions.

NRC ratings 30 mm 0.80
 40 mm 0.85
 70 mm 1.00

SAA ratings 30 mm 0.81
 40 mm 0.85
 70 mm 1.00

Frequency absorption

	Frequency, Hz																			
	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	
30 mm	0.27	0.33	0.32	0.25	0.31	0.39	0.49	0.54	0.74	0.92	1.04	1.09	1.09	1.07	1.01	1.03	0.95	0.92	0.92	
40 mm	0.29	0.36	0.47	0.37	0.45	0.58	0.61	0.75	0.94	1.02	1.04	1.03	0.98	0.93	0.90	0.95	0.90	0.91	0.92	
70 mm	0.19	0.34	0.58	0.63	0.75	0.84	0.91	1.12	1.12	1.07	1.07	1.02	1.02	1.03	1.00	1.01	0.94	0.91	0.86	



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