

Prüfberichte AkustiPur 1/8

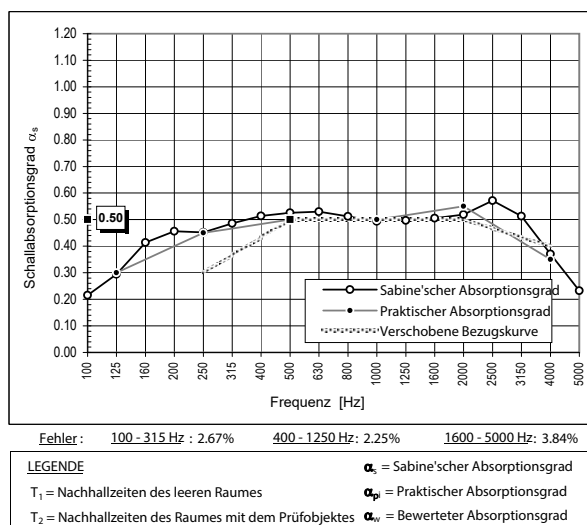
AkustiPur

Akustipur – Die innovative und effektive Vielzweck-Akustikplatte.

Produktname Akustipur 1/8 (Lochanteil 1.23%)
Bemerkungen, Konfiguration Aufbauhöhe h = 190 mm (20 mm Materialdicke + 170 mm Luftspalt)

Messresultate (gem. ISO 354, ISO 11654)

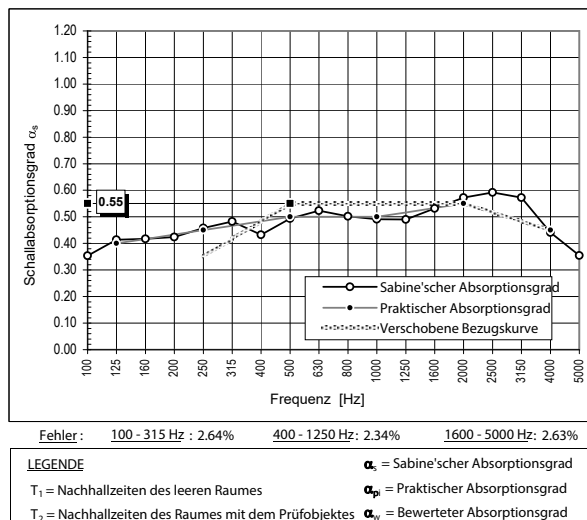
Freq. [Hz]	T ₁	T ₂	α _s	α _{pi}	α _w	
100	21.04	8.16	0.22	0.30	0.50	
125	17.79	6.29	0.29			
160	15.44	4.78	0.41			
200	11.55	4.07	0.46	0.45		
250	10.99	4.02	0.45			
315	9.57	3.65	0.49			
400	7.79	3.25	0.51	0.50		Klasse "D"
500	8.30	3.29	0.53			
630	7.90	3.21	0.53			
800	7.64	3.23	0.51	0.50		
1'000	6.89	3.15	0.49			
1'250	5.88	2.91	0.50			
1'600	5.30	2.74	0.51	0.55		
2'000	4.64	2.52	0.52			
2'500	4.05	2.24	0.57			
3'150	3.49	2.15	0.51	0.35		
4'000	2.83	2.07	0.37			
5'000	2.23	1.89	0.23			



Produktname Akustipur 1/8 (Lochanteil 1.23%)
Bemerkungen, Konfiguration Aufbauhöhe h = 420 mm (20 mm Materialdicke + 400 mm Luftspalt)

Messresultate (gem. ISO 354, ISO 11654)

Freq. [Hz]	T ₁	T ₂	α _s	α _{pi}	α _w
100	20.84	5.84	0.35	0.40	0.55
125	17.63	4.97	0.41		
160	15.26	4.74	0.42		
200	11.61	4.27	0.42	0.45	
250	11.08	4.00	0.46		
315	9.60	3.67	0.48		
400	7.79	3.58	0.43	0.50	
500	8.26	3.41	0.49		
630	7.87	3.23	0.52		
800	7.59	3.26	0.50	0.50	
1'000	6.84	3.15	0.49		
1'250	5.91	2.94	0.49		
1'600	5.29	2.67	0.53	0.55	
2'000	4.65	2.41	0.57		
2'500	4.10	2.22	0.59		
3'150	3.53	2.07	0.57	0.45	
4'000	2.89	2.00	0.44		
5'000	2.30	1.79	0.35		



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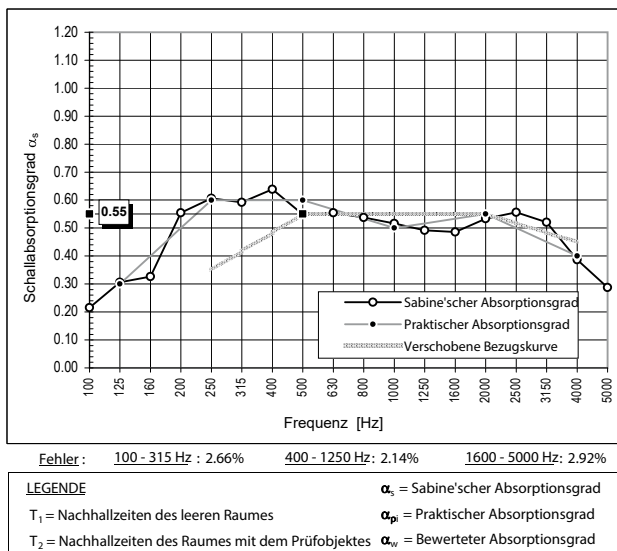
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Produktname Akustipur 1/8 (Lochanteil 1.23%)
 Bemerkungen, Konfiguration Aufbauhöhe h = 70 mm
 (20 mm Materialdicke, 30 mm Isolation Caruso WLG040, 20 mm Luft spalt)

Messresultate (gem. ISO 354, ISO 11654)

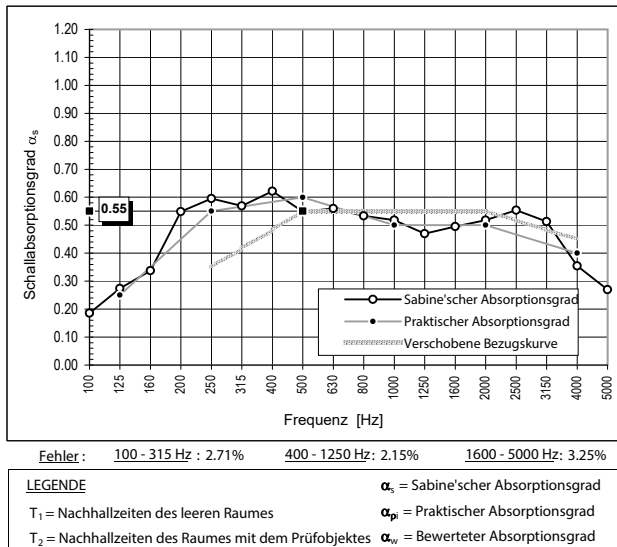
Freq. [Hz]	T ₁	T ₂	α_s	α_{pi}	α_w
100	21.07	8.14	0.22		0.30
125	17.54	6.10	0.31		
160	15.32	5.57	0.33		0.60
200	11.20	3.53	0.55		
250	10.88	3.29	0.61		0.60
315	9.39	3.19	0.59		
400	8.06	2.88	0.64		0.50
500	8.36	3.21	0.55		
630	8.03	3.14	0.55		0.55
800	7.67	3.14	0.54		
1'000	6.99	3.09	0.52		0.55
1'250	5.94	2.94	0.49		
1'600	5.34	2.80	0.49		0.40
2'000	4.72	2.51	0.53		
2'500	4.16	2.30	0.56		0.40
3'150	3.51	2.14	0.52		
4'000	2.87	2.07	0.39		0.40
5'000	2.29	1.86	0.29		



Produktname Akustipur 1/8 (Lochanteil 1.23%)
 Bemerkungen, Konfiguration Aufbauhöhe h = 50 mm
 (20 mm Materialdicke, 30 mm Isolation Caruso WLG040, ohne Luftspalt)

Messresultate (gem. ISO 354, ISO 11654)

Freq. [Hz]	T ₁	T ₂	α_s	α_{pi}	α_w
100	21.36	8.96	0.19		0.25
125	17.33	6.52	0.27		
160	14.74	5.38	0.34		0.55
200	11.24	3.56	0.55		
250	10.95	3.34	0.60		0.60
315	9.53	3.29	0.57		
400	8.07	2.93	0.62		0.50
500	8.36	3.21	0.55		
630	8.08	3.13	0.56		0.50
800	7.70	3.16	0.53		
1'000	7.02	3.09	0.52		0.50
1'250	5.96	3.01	0.47		
1'600	5.40	2.79	0.50		0.40
2'000	4.74	2.55	0.52		
2'500	4.18	2.31	0.55		0.40
3'150	3.55	2.17	0.51		
4'000	2.89	2.13	0.35		0.40
5'000	2.30	1.89	0.27		



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Bemerkungen, Konfiguration

- 3 Stellwände (2 * 2 Elemente und 1 * 1 Element) je einmal auf Pos. 1-3, resp. 4-6 gemessen
- Mittelwert der Nachhallzeiten beider Messungen
- für die Berechnung der Fläche wurden 5 Stellwände (Elemente) beidseitig berücksichtigt

Messresultate (Berechnungen gem. ISO 354)

Freq. [Hz]	T ₁	T ₂	A _{eq}	A _{elem}	α _s
100	20.68	15.15	0.10	0.12	0.05
125	17.39	9.78	0.26	0.31	0.13
160	15.07	7.56	0.38	0.45	0.19
200	11.49	5.74	0.50	0.60	0.25
250	11.04	5.26	0.57	0.69	0.29
315	9.59	4.49	0.68	0.82	0.34
400	7.76	3.77	0.78	0.94	0.39
500	8.29	3.83	0.81	0.97	0.40
630	7.88	3.65	0.84	1.01	0.42
800	7.58	3.59	0.84	1.01	0.42
1'000	6.85	3.38	0.86	1.03	0.43
1'250	5.92	3.10	0.88	1.06	0.44
1'600	5.27	2.85	0.93	1.11	0.46
2'000	4.62	2.56	1.00	1.20	0.50
2'500	4.06	2.31	1.07	1.29	0.54
3'150	3.51	2.15	1.03	1.24	0.52
4'000	2.87	2.06	0.79	0.95	0.40
5'000	2.27	1.83	0.61	0.73	0.31

