



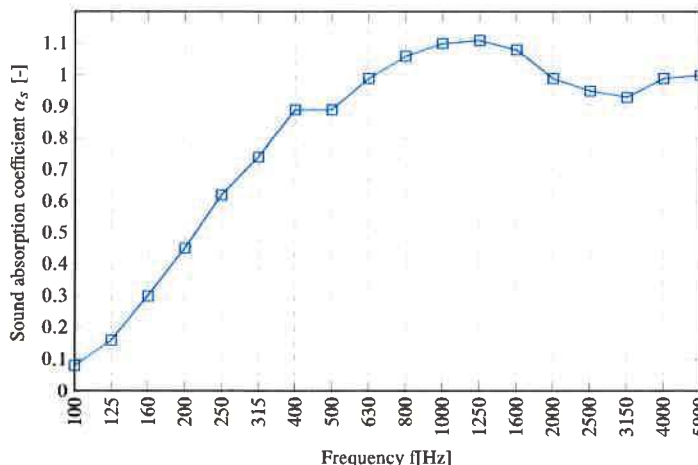
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Client:
 Nowy Styl Sp. z o.o.
 ul. Pużaka 49, 38-400 Krosno
 38-400 Krosno

Measurement of sound absorption coefficient in a reverberation chamber according to PN-EN ISO 354:2005

Sample: Sileo – sound absorbing wall panels 1215x600x58	Test date: 30.05.18
Producer: Nowy Styl Sp. z o.o. ul. Pużaka 49, 38-400 Krosno 38-400 Krosno	Conditions: Sample size [mm]: 4200x2430x58 Element size [mm]: 1215x600x58 Element number [no.]: 14 Sample area [m ²]: 10,2 Mounting method: A
Sample description: Frame: - wood Filling: - foam 40 mm, 90 kg/m ³ Covering: - upholstery fabric	Temperature with sample t [°C]: 24.6 Temperature without sample t [°C]: 24.6 rel. humidity with sample [%]: 44.7 rel. humidity without sample [%]: 44.7 Microphone positions: 6 Loudspeaker positions: 2 Diffusors number: 5 Chamber volume [m ³]: 180,4 Walls area [m ²]: 193,6

f [Hz]	T ₁ [s]	T ₂ [s]	α _s	α _p
100	11.31	8.54	0.08	0.20
125	7.99	5.55	0.16	
160	8.33	4.45	0.30	
200	9.43	3.77	0.45	0.60
250	10.17	3.16	0.62	
315	9.67	2.73	0.74	
400	9.12	2.36	0.89	0.90
500	8.09	2.28	0.89	
630	8.12	2.11	0.99	
800	7.28	1.95	1.06	1.00
1000	6.70	1.86	1.10	
1250	6.03	1.80	1.11	
1600	4.91	1.71	1.08	1.00
2000	4.45	1.74	0.99	
2500	3.94	1.69	0.95	
3150	3.49	1.62	0.93	1.00
4000	2.81	1.42	0.99	
5000	2.34	1.28	1.00	



α_s Sound absorbiton coefficient PN-EN ISO 354:2005
 α_p Practical sound absorbiton coefficient PN-EN ISO 11654:1999
 α_w Weighted sound absorbiton coefficient PN-EN ISO 11654:1999
 T₁, T₂ Chamber reverberation time while empty and with sample PN-EN ISO 354:2005

Absorption class: A
 α_w: 0,90

Stamp:
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 Katedra Wzrostu i Wzrostuakustyki
 30-059 Kraków, Al. Mickiewicza 30, paw.
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