



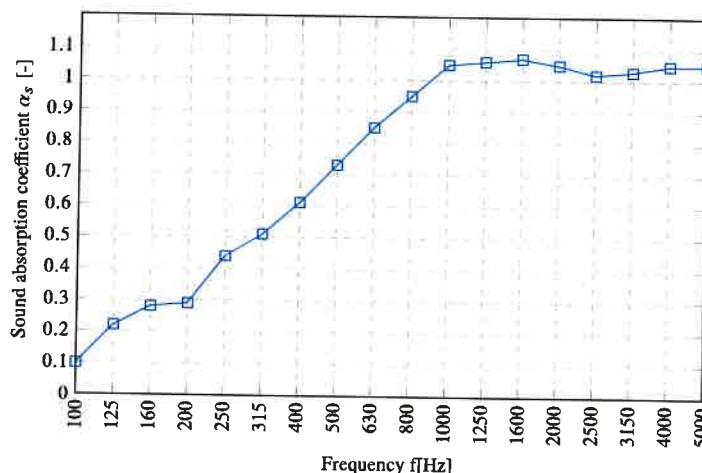
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Client:
Nowy Styl Sp. z o.o.
ul. Pużaka 49, 38-400 Krosno
38-400 Krosno

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

	Test date:	26.05.17
Sample: Sileo - horizontal hanging panels 1600 x 600 x 40	Conditions:	
	Sample size [mm]:	-
	Element size [mm]:	1600 x 600 x 40
	Element number [no.]:	6
	Sample area [m ²]:	11,5
Producer: Nowy Styl Sp. z o.o. ul. Pużaka 49, 38-400 Krosno 38-400 Krosno	Mounting method:	single panels hung vertically
Sample description: Filling: Polyester felt 40 mm, 100 kg/m ³ Covering: Upholstery fabric	Temperature with sample t [°C]:	23.8
	Temperature without sample t [°C]:	23.9
	rel. humidity with sample [%]:	45.9
	rel. humidity without sample [%]:	44.1
	Microphone positions:	6
	Loudspeaker positions:	2
	Diffusers 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	10.77	7.49	0.10	0.20
125	7.93	4.68	0.22	
160	7.87	4.22	0.28	
200	8.95	4.40	0.29	0.40
250	9.61	3.56	0.44	
315	9.32	3.21	0.51	
400	8.84	2.80	0.61	0.75
500	7.76	2.38	0.73	
630	7.83	2.15	0.85	
800	6.90	1.90	0.95	1.00
1000	6.25	1.73	1.05	
1250	5.35	1.64	1.06	
1600	4.57	1.55	1.07	1.00
2000	4.04	1.51	1.05	
2500	3.63	1.47	1.02	
3150	3.22	1.39	1.03	1.00
4000	2.71	1.28	1.05	
5000	2.26	1.17	1.05	



Absorption class: C
 α_w : 0,70(MH)

α_s Sound absorption coefficient PN-EN ISO 354:2005
 α_p Practical sound absorption coefficient PN-EN ISO 11654:1999
 α_w Weighted sound absorption coefficient PN-EN ISO 11654:1999
 T_1, T_2 Chamber reverberation time while empty and with sample PN-EN ISO 354:2005

Stamp: MIA GóRNICZO-HUTNICZA
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