



AGH University of Science and Technology
Faculty of Mechanical Engineering and Robotics
Department of Mechanics and Vibroacoustics
Al. Mickiewicza 30,30-059 Kraków
Tel/fax (4812) 617-35-17

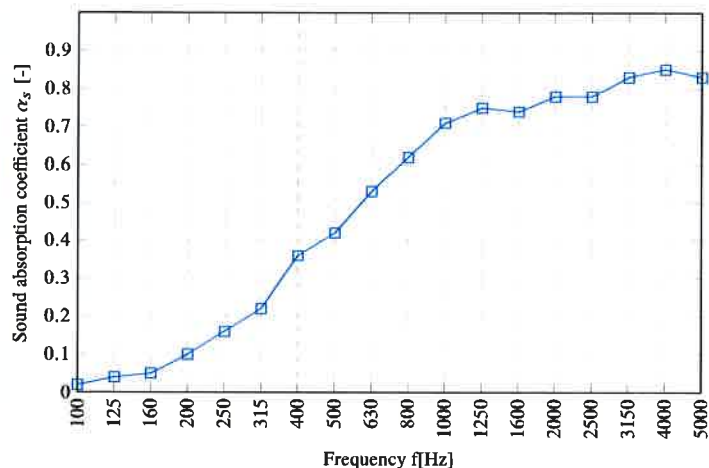
Client:
Nowy Styl Sp. z o.o.
ul. Pużaka 49, 38-400 Krosno
38-400 Krosno

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

<p>Sample: Sileo panel S C11 – free hanging panels $\phi 800 \times 30$</p> <p>Producer: Nowy Styl Sp. z o.o. ul. Pużaka 49, 38-400 Krosno 38-400 Krosno</p> <p>Sample description: Filling: Foam gr. 25 mm, HDF 5 mm Covering: Upholstery fabric</p>	<p>Test date: 19.06.18</p> <p>Conditions: Sample size [mm]: - Element size [mm]: $\phi 800 \times 30$ Element number [no.]: 10 Sample area [m^2]: 10.1 Mounting method: Discrete sound absorbers PN-EN ISO 354:2005</p> <p>Temperature with sample t [$^{\circ}C$]: 25.3 Temperature without sample t [$^{\circ}C$]: 25.2 rel. humidity with sample [%]: 45.1 rel. humidity without sample [%]: 47.8 Microphone positions: 6 Loudspeaker positions: 2 Diffusors number: 5 Chamber volume [m^3]: 180.4 Walls area [m^2]: 193.6</p>
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f [Hz]	T_1 [s]	T_2 [s]	α_s	α_p
100	10.85	9.93	0.02	0.05
125	7.86	7.06	0.04	
160	7.73	6.76	0.05	
200	8.85	6.81	0.10	0.15
250	9.46	6.15	0.16	
315	9.16	5.36	0.22	
400	8.72	4.17	0.36	
500	7.82	3.63	0.42	0.45
630	7.78	3.19	0.53	
800	6.84	2.76	0.62	
1000	6.16	2.43	0.71	0.70
1250	5.30	2.22	0.75	
1600	4.40	2.06	0.74	
2000	4.04	1.92	0.78	0.75
2500	3.69	1.84	0.78	
3150	3.30	1.68	0.83	
4000	2.93	1.55	0.85	0.85
5000	2.34	1.38	0.83	

Absorption class: D
 α_w : **0,40(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:
AGH GÓRNICZO-HUTNICZA
Instytut Mechaniki i Akustyki
Wydział Inżynierii Mechanicznej i Robotyki
ul. M. Skłodowej-Curie 1, 30-059 Kraków
tel. 12 617 35 17 fax 12 633 23 14
NIP: 50001523

Project manager:
dr hab. inż. Tadeusz Kamisiński prof. AGH
kamisins@agh.edu.pl

Technical specialist:
mgr inż. Jacek Frączek
dr inż. Jarosław Rubacha