



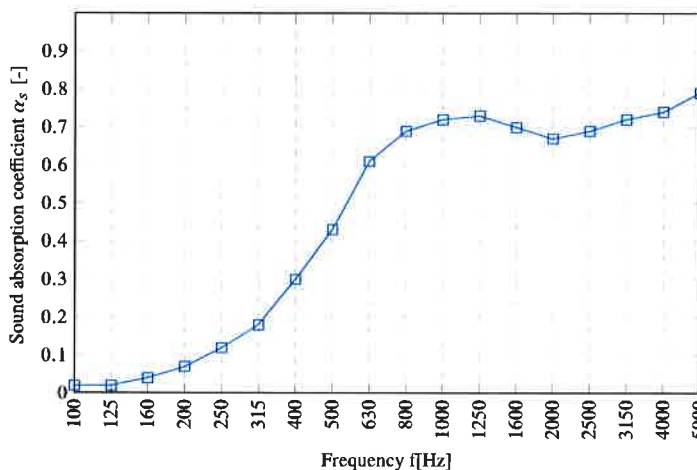
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Client:  
 Nowy Styl Sp. z o.o.  
 ul. Pużaka 49, 38-400 Krosno  
 38-400 Krosno

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

<p><b>Sample:</b> Formo – Hanging curtains 430 x 430 x 48</p> <p><b>Producer:</b> Nowy Styl Sp. z o.o. ul. Pużaka 49, 38-400 Krosno 38-400 Krosno</p> <p><b>Sample description:</b> Thermoformable felt 3 mm</p>	<p>Test date: <b>08.05.19</b></p> <p>Conditions:                  Sample size [mm]: <b>3440 x 3010</b>                  Element size [mm]: <b>430 x 430 x 48</b>                  Element number [no.]: <b>56</b>                  Sample area [m<sup>2</sup>]: <b>10,4</b>                  Mounting method: <b>G-150</b></p> <p>Temperature with sample t [°C]: <b>23,6</b>                  Temperature without sample t [°C]: <b>23,6</b>                  rel. humidity with sample [%]: <b>34,7</b>                  rel. humidity without sample [%]: <b>34,3</b>                  Microphone positions: <b>6</b>                  Loudspeaker positions: <b>2</b>                  Diffusors number: <b>5</b>                  Chamber volume [m<sup>3</sup>]: <b>180,4</b>                  Walls area [m<sup>2</sup>]: <b>193,6</b></p>
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f [Hz]	T <sub>1</sub> [s]	T <sub>2</sub> [s]	α <sub>s</sub>	α <sub>p</sub>
100	10.21	9.39	0.02	
125	7.20	6.85	0.02	0.05
160	7.02	6.36	0.04	
200	7.83	6.56	0.07	
250	8.57	6.33	0.12	0.10
315	8.55	5.48	0.18	
400	8.28	4.39	0.30	
500	7.39	3.44	0.43	0.45
630	7.50	2.85	0.61	
800	6.66	2.51	0.69	
1000	6.05	2.36	0.72	0.70
1250	5.45	2.26	0.73	
1600	4.64	2.15	0.70	
2000	4.21	2.10	0.67	0.70
2500	3.65	1.92	0.69	
3150	3.23	1.77	0.72	
4000	2.47	1.50	0.74	0.75
5000	2.03	1.29	0.79	



α<sub>s</sub> Sound absorbiton coefficient PN-EN ISO 354:2005  
 α<sub>p</sub> Practical sound absorbiton coefficient PN-EN ISO 11654:1999  
 α<sub>w</sub> Weighted sound absorbiton coefficient PN-EN ISO 11654:1999  
 T<sub>1</sub>, T<sub>2</sub> Chamber reverberation time while empty and with sample PN-EN ISO 354:2005

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