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

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

Sample: Test Date: 14-12-2016

Sound absorbing panel - Formo

Producer:

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

Conditions:

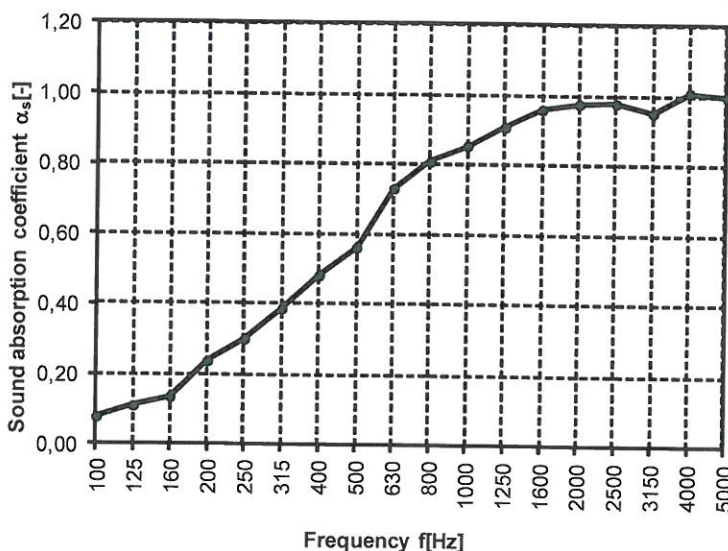
Sample size [mm]: 3600x3150x60
Element size [mm]: 450x450x60
Elements number: 56
Sample area [m²]: 11,3
Mounting method: A

Sample scheme:

Thermoformable felt 8 mm

Temperature with sample t [°C]: 23,4
Temperature without sample t [°C]: 23,4
rel. humidity with sample h [%]: 39,3
rel. humidity without sample h [%]: 39,8
Microphone positions: 6
Loudspeaker positions: 2
Diffusors number: 5
Chamber Volume V [m³]: 180,4
Walls area [m²]: 193,6

| f [Hz] | T_1 [s] | T_2 [s] | α_s | α_p |
|----------|-----------|-----------|------------|------------|
| 100 | 10,24 | 7,81 | 0,08 | 0,10 |
| 125 | 7,76 | 5,83 | 0,11 | |
| 160 | 7,20 | 5,21 | 0,14 | |
| 200 | 8,14 | 4,64 | 0,24 | 0,30 |
| 250 | 8,63 | 4,29 | 0,30 | |
| 315 | 8,57 | 3,72 | 0,39 | |
| 400 | 8,36 | 3,24 | 0,48 | 0,60 |
| 500 | 7,59 | 2,84 | 0,56 | |
| 630 | 7,69 | 2,40 | 0,73 | |
| 800 | 6,91 | 2,17 | 0,81 | 0,85 |
| 1000 | 6,63 | 2,06 | 0,85 | |
| 1250 | 5,93 | 1,91 | 0,91 | |
| 1600 | 4,92 | 1,73 | 0,96 | 0,95 |
| 2000 | 4,36 | 1,64 | 0,98 | |
| 2500 | 3,72 | 1,53 | 0,98 | |
| 3150 | 3,24 | 1,47 | 0,95 | 1,00 |
| 4000 | 2,82 | 1,34 | 1,01 | |
| 5000 | 2,22 | 1,19 | 1,00 | |



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 Reverberation time of the empty chamber and with sample PN-EN ISO 354:2005

Absorption class: C
 $\alpha_w=0,60$ (MH)

Stamp:

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