

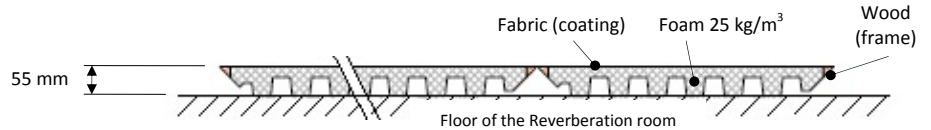


**Sound Absorption Coefficient according to EN ISO 354:2003
Laboratory measurements**

Applicant: ARTFAZIUM – ENGINEERING UNIPESSOAL Lda.

Date of test: May 6th, 2.015.

Test specimen: *Helen Absorber* panels of 593x593mm. See details in the report.



Room without test specimen:

18,2 °C, 59%, 959 mbar

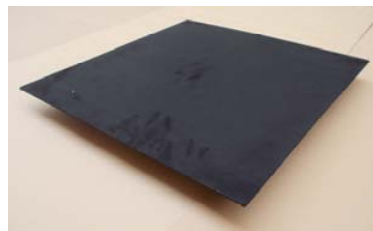
Room with test specimen:

18,3 °C, 61%, 959 mbar

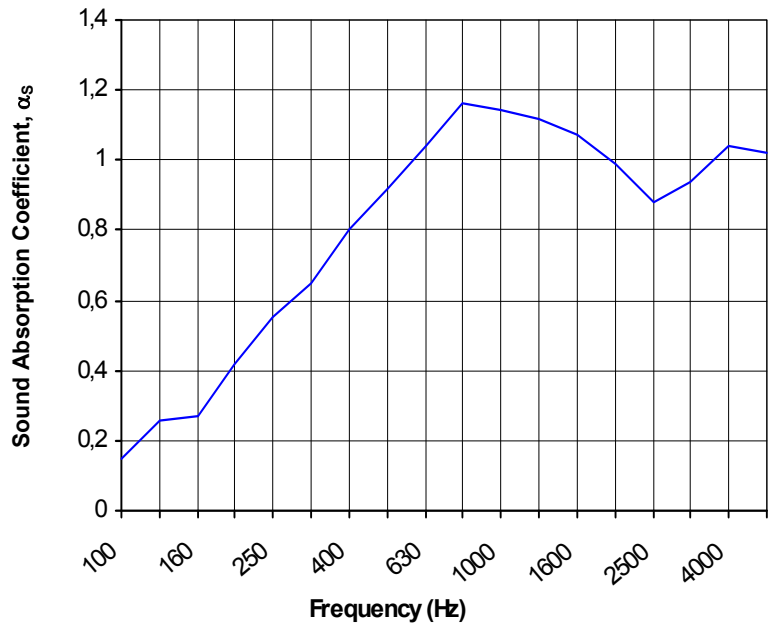
Reverberation room volume: 209,6 m³

Reverberation room area: 211,8 m²

S = 11,27 m²



f (Hz)	T ₁	T ₂	α _s	α _p
100	9,10	6,30	0,15	0,25
125	8,92	5,01	0,26	
160	9,43	5,13	0,27	
200	10,42	4,24	0,42	0,55
250	10,22	3,57	0,55	
315	8,89	3,04	0,65	
400	8,74	2,63	0,80	
500	9,26	2,42	0,92	0,90
630	9,15	2,19	1,04	
800	8,59	1,99	1,16	
1000	7,96	1,98	1,14	1,00
1250	7,31	1,96	1,12	
1600	6,46	1,96	1,07	1,00
2000	5,55	1,97	0,99	
2500	4,65	1,98	0,88	
3150	3,76	1,74	0,94	
4000	2,94	1,47	1,04	1,00
5000	2,29	1,30	1,02	



Weighted according to EN ISO 11654:1997

Sound Absorption coefficient:

α_w = 0,85(H)

Acoustic class:

B

Evaluation based on laboratory measurement obtained by an engineering method.

Uncertainty associated to global index α_w: ± 0,1.



Nº of result: B2015-20-M244

Signature:

Acoustics Area

Managed by



Date of report: May 14th, 2.015.