

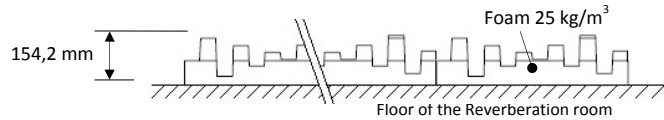


**Sound Absorption Coefficient according to EN ISO 354:2003  
Laboratory measurements**

**Applicant:** ARTFAZIUM – ENGINEERING UNIPESSOAL Lda.

**Date of test:** May 6<sup>th</sup>, 2.015.

**Test specimen:** Evans HP Absorber panels of 595x595mm. See details in the report.



Room without test specimen:

18,2 °C, 59%, 959 mbar

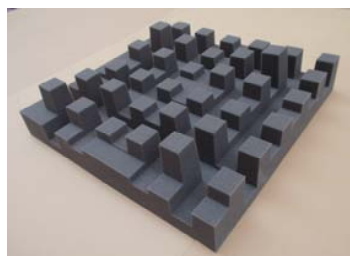
Room with test specimen:

18,3 °C, 59%, 959 mbar

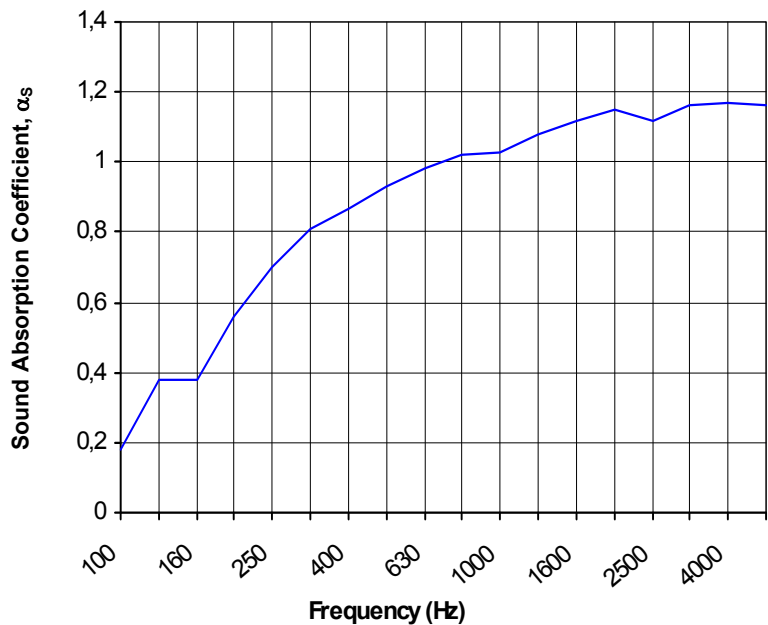
Reverberation room volume: 209,6 m<sup>3</sup>

Reverberation room area: 211,8 m<sup>2</sup>

S = 11,58 m<sup>2</sup>



f (Hz)	T <sub>1</sub>	T <sub>2</sub>	α <sub>s</sub>	α <sub>p</sub>
100	9,10	5,83	0,18	
125	8,92	4,11	0,38	0,30
160	9,43	4,21	0,38	
200	10,42	3,49	0,56	
250	10,22	2,97	0,70	0,70
315	8,89	2,57	0,81	
400	8,74	2,42	0,87	
500	9,26	2,35	0,93	0,95
630	9,15	2,25	0,98	
800	8,59	2,15	1,02	
1000	7,96	2,10	1,03	1,00
1250	7,31	1,98	1,08	
1600	6,46	1,86	1,12	
2000	5,55	1,75	1,15	1,00
2500	4,65	1,67	1,12	
3150	3,76	1,51	1,16	
4000	2,94	1,35	1,17	1,00
5000	2,29	1,20	1,16	



**Weighted according to EN ISO 11654:1997**

Sound Absorption coefficient:

Acoustic class:

**α<sub>w</sub> = 0,95**

**A**

*Evaluation based on laboratory measurement obtained by an engineering method.  
Uncertainty associated to global index α<sub>w</sub>: ± 0,1.*



Nº of result: B2015-20-M242

Signature:

Acoustics Area

Date of report: May 14<sup>th</sup>, 2.015.

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