

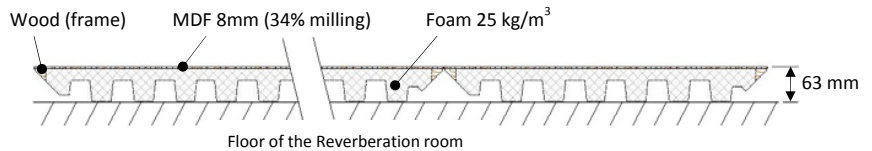


**Sound Absorption Coefficient according to EN ISO 354:2003  
Laboratory measurements**

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

**Date of test:** July 29<sup>th</sup>, 2.015.

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



Room without test specimen:

22,5 °C, 62%, 955 mbar

Room with test specimen:

22,6 °C, 64%, 955 mbar

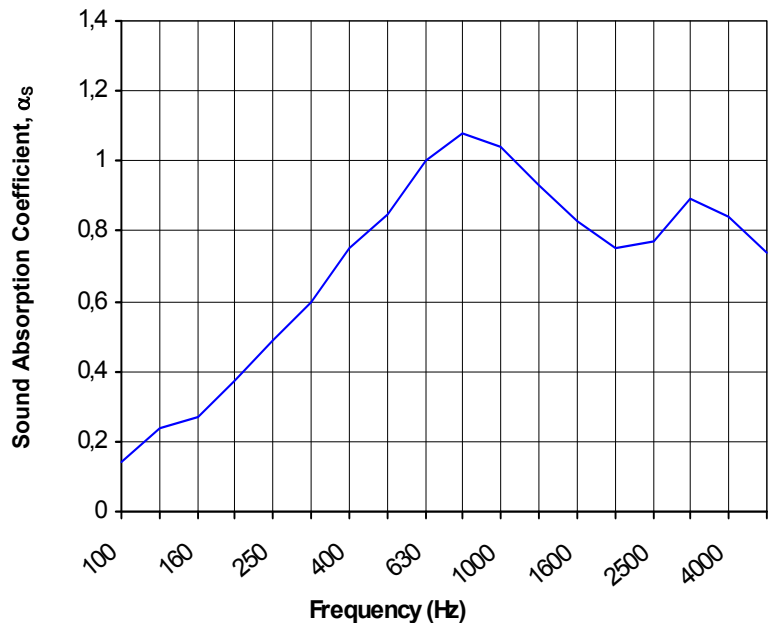
Reverberation room volume: 209,6 m<sup>3</sup>

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

S = 11,44 m<sup>2</sup>



f (Hz)	T <sub>1</sub>	T <sub>2</sub>	α <sub>s</sub>	α <sub>p</sub>
100	8,93	6,32	0,14	0,20
125	8,56	5,00	0,24	
160	9,70	5,11	0,27	
200	10,14	4,46	0,37	0,50
250	9,74	3,70	0,49	
315	9,08	3,19	0,60	
400	8,99	2,73	0,75	0,85
500	9,07	2,50	0,85	
630	8,81	2,21	1,00	
800	8,19	2,04	1,08	1,00
1000	7,67	2,07	1,04	
1250	7,07	2,19	0,93	
1600	6,29	2,27	0,83	0,80
2000	5,47	2,28	0,75	
2500	4,71	2,11	0,77	
3150	3,92	1,80	0,89	0,80
4000	3,17	1,67	0,84	
5000	2,45	1,53	0,74	



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

Sound Absorption coefficient:

Acoustic class:

**α<sub>w</sub> = 0,80**

**B**

*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-M248

Signature:

Acoustics Area

Date of report: September 7<sup>th</sup>, 2.015.

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