





L0446 Ensaios

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			Test R	eport		0)
Report nº:	ACL	288/13			Date:	2013/09/16
Requeste	d by:					
	Name:	VISOUND ACÚSTIC	CA, LDA			
	Adress:		nº 159, Paços de Ferreira	, 4590 - 137 Carvalhosa		
	Contact:	Fax.:	Phone:	255093565	e-mail: jorge	@vicoustic.com
Manufactu	urer and tes	t specimen identif	fication:			· ·
	Name*:	VISOUND ACÚSTIC	CA. LDA			
Tes	st specimen*:	Multifuser Wood 64				
	·	***************************************	***************************************			
Test data:						
	Test:	Laboratory measu	rement of sound absorpt	ion (in a reverberation rooi	m) (Ref. ACL.02	2)
	Date:	2013/09/05	······································			
	Empty rever	beration room:		Reverberation roo	m with test sp	ecimen:
	Temperature	e (°C):	25.4	Tempera	ture (°C):	25.3
	Relative Hui	midity (%):	55.2	Relative Hum	ldity (%):	60.8
	Standard:	NP EN ISO 354:200)7	•		**
	Operator(s):	lgor (Castro	Report author(s): Igo	r Castro / Juliet	a António
Test speci	imen descri	ption:	Area of	the test specimen (m²):	10.7	
thickness (ou classified as t	r reference ACL type "A", in agre	.226A/13). The panels	were disposed side by side ov	er the reflector pavement of the ation of the sample in the reverb	reverberation roo	d veneer, and 135mm maximum m, corresponding to an assembly wed the indications of standard
Reverbera	tion room d	escription:	Volume of the re	verberation room (m³):	204.0	
354:2007, 15 the reverberat	polycarbonate o tion room, helpi	diffusing elements were ng to create a diffuse fi	used, with 30 m2 of total are	5m x 5,85m and a ceiling height a and different concave and con ecified maximum absorption area	vex geometries, n	andomly placed on the ceiling of
Test equip					•	
microphone be	oom, type 3923	, GIR01, with "Bruel & I	ulse multianalyser system, P Kjaer" 1/2" microphone, type from "Bruel & Kjaer", FSO03; t	4190, MIC06; sound level meter	five acquisition of calibrator, type 4	channels; "Bruel & Kjaer" rotating 231, from "Bruel & Kjaer", CLS04;
Additional	information	related with the t	est:			
	Number of m	icrophone position	s: <u>3</u> Numb	er of source positions:	4	
	Number of de	ecays per micropho	ne/source combination:	3		
	Evaiuation m	ethod of reverberat	tion time:	based on decay curves		
	<u>Measurement</u>		One-third-octave			
		oort cannot be reproduct valid exclusively for the		written agreement of ITeCons.		

Data reported with * supplied by customer.

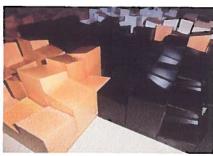


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Picture of the test specimen:







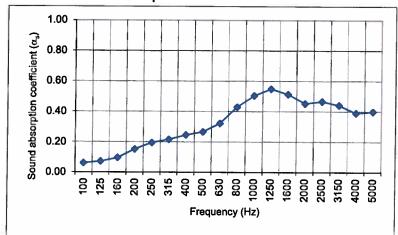
Average reverberation times (T1 - empty reverberation room; T2 - reverberation room with test specimen):

					377 70				
Freq. (Hz)	100	125	160	200	250	315	400	500	630
T1 (s)	16.38	11.83	11.23	9.76	8.71	8.07	9.36	10.05	9.43
T2 (s)	12.37	9.29	8.32	6.58	5.60	5.14	5.35	5.36	4.73
Freq. (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
T1 (s)	8.83	8.26	7.65	6.71	6.07	4.72	3.88	3.32	2.66
T2 (s)	3.94	3.50	3.22	3.16	3.20	2.74	2.49	2.33	1.97

Sound absorption coefficient (α_s):

Freq. (Hz)	100	125	160	200	250	315	400	500	630
ας	0.06	0.07	0.10	0.15	0.19	0.22	0.25	0.27	0.32
Freq. (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
α_{s}	0.43	0.50	0.55	0.51	0.45	0.47	0.44	0.39	0.40

Graphical presentation of the sound absorption coefficient:



Remarks:

Technical responsability

Administration

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