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			7	Test Repo	t		
Report nº:	ACL	291/13				Date:	2013/09/16
Requested	bv:						
110 1	Name:	VISOUND ACÚST	ICA LDA				
	Adress:	Avenida do Polo, 3		Ferreira, 4590	· 137 Carvalhosa		<u> </u>
	Contact:	Fax.:	<u></u>	Phone: 25509	3565	e-mail: jorge	@vicoustic.com
Manufactu	rer and test	 t specimen ident		-		<u>,,</u>	
	Name*:	VISOUND ACÚST					
Tes	t specimen*:		ICA, LDA				
Test data:							
resi uala.	Test:	Labanatana				1/5 / 401 01	
	Date:		urement of sound	absorption (in	a reverberation roo	om) (Ref. ACL.0)	3)
		2013/09/10 beration room:			Reverberation ro	am with tast an	aalmans
	Temperature		23.	2		-	
	Relative Hui	• •	55.			ature (°C): nidity (%):	23.6 54.3
		NP EN ISO 354:20			Neialive Hui	multy (76):	34.3
	Operator(s):	do.	Castro		Report author(s): lg	or Castro / Juliet	a António
Tookonoo		<u></u>					a runonio
<u> </u>	men descri				t specimen (m²):	10.9	ce filled with polyurethane foam
alternate rows	s pattern over th	ne reflector pavement	of the reverberation r	room, correspondi	ng to an assembly clas	sified as type "A", i	e and distributed forming an in agreement with the standard NP a total area of 10.9 m2.
Reverbera	tion room d	escription:	Volume	of the reverbe	ration room (m³):	204.0	····
354:2007, 15 the reverberat	polycarbonate o ion room, helpi	diffusing elements we	re used, with 30 m2 of field and to comply w	of total area and di vith the specified n	fferent concave and co	nvex geometries, r	r to comply with NP EN ISO andomly placed on the ceiling of ice area of the room (walls, floor
Test equip	ment:						<u>.</u>
microphone be	oom, type 3923	ons; "Bruel & Kjaer" F I, GIR01, with "Bruel 8 I OMNIPOWER 4292	Kjaer" 1/2" microph	one, type 4190, M	IC06; sound level mete	h five acquisition er calibrator, type 4	channels; "Bruel & Kjaer" rotating 1231, from "Bruel & Kjaer", CLS04;
Additional	information	related with the	test:	<u>- </u>			
	Number of m	icrophone positio	ns: 3	Number of s	ource positions:	4	
	Number of d	ecays per microph	one/source comb	ination:	3		
	Evaluation m	ethod of reverber	ation time:	based	on decay curves		
		in bands of:	One-third-oc				
		oort cannot be reprodu valid exclusively for t			agreement of ITeCons.		

Data reported with * supplied by customer.







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L0446 Ensaios

Picture of the test specimen:







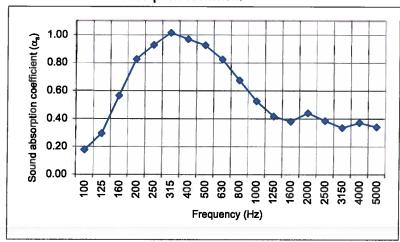
Average reverberation times (T1 - empty reverberation room; T2 - reverberation room with test specimen):

Freq. (Hz)	100	125	160	200	250	315	400	500	630
T1 (s)	20.18	12.82	11.47	9.69	8.04	7.87	9.43	10.42	9.68
T2 (s)	9.21	5.66	3.63	2.64	2.31	2.15	2.33	2.47	2.64
Freq. (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
T1 (s)	9.04	8.49	7.86	6.82	6.06	4.68	3.95	3.39	2.67
T2 (s)	2.98	3.41	3.76	3.66	3.20	2.92	2.74	2.39	2.05

Sound absorption coefficient (α_s):

Freq. (Hz)	100	125	160	200	250	315	400	500	630
αs	0.18	0.30	0.57	0.83	0.93	1.02	0.97	0.93	0.83
Freq. (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
α_{s}	0.67	0.53	0.42	0.38	0.44	0.39	0.34	0.37	0.34

Graphical presentation of the sound absorption coefficient:



Remarks:

Technical responsability

ulo Amado Mendes, Technical and Scientific Supervisori

Stores

Administration

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The results are valid exclusively for the tested specimens.

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