Sound Research Laboratories

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UKAS TESTING 0444

Test Certificate No. 8377

Contract: C/22614

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Confidential

See SRL report C/22614/T06 for full details

The Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

Client: Rockfon

Test Date: 07/03/2014

Empty Room:	**Temperature:**	16.2	°C	**Humidity:**	54	%RH	**Pressure:**	1016	mbar
Room with Sample:	**Temperature:**	16.7	°C	**Humidity:**	56	%RH	**Pressure:**	1014	mbar

Sample Description: Mono Acoustic TE, 1200 x 1200 x 40mm, 30mm TE-edge

Front/core/back: Mono ready-mix (LP Application)/glass fleece/stone wool/HPM

Mounting Method: E- 220

Sample Area: 10.41 m2

Chamber Volume: 300 m3

Test 27

Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
*50**	*4.53*	*3.53*	*0.29*	
*63**	*4.51*	*2.64*	*0.73*	*n/a*
*80**	*6.12*	*3.96*	*0.42*	
100	6.79	5.03	0.24	
125	7.43	4.38	0.44	0.40
160	6.76	3.97	0.49	
200	6.69	3.70	0.56	
250	6.97	3.53	0.65	0.65
315	6.81	3.30	0.73	
400	6.30	3.05	0.79	
500	5.49	2.66	0.90	0.85
630	5.12	2.62	0.87	
800	5.44	2.59	0.94	
1000	5.90	2.64	0.98	1.00
1250	5.68	2.48	1.06	
1600	4.97	2.39	1.02	
2000	4.56	2.25	1.06	1.00
2500	4.04	2.14	1.04	
3150	3.35	1.94	1.04	
4000	2.67	1.69	1.06	1.00
5000	2.02	1.41	1.07	
*6300**	*1.43*	*1.14*	*0.94*	
*8000**	*1.16*	*0.99*	*0.85*	*n/a*
*10000**	*0.82*	*0.74*	*0.84*	

α_w 0.90

Class A

Calculated to EN ISO 11654:1997

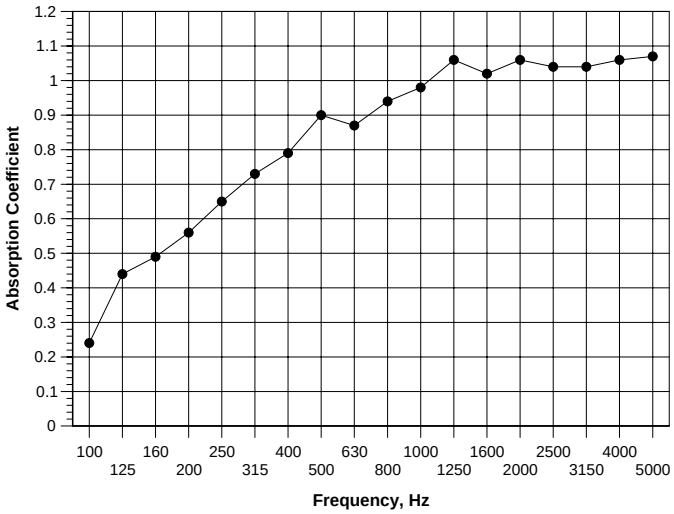
NRC 0.90

Calculated to ASTM C 423-01

** Denotes frequencies outside the range covered by BS EN ISO 354:2003*

T1, empty room reverberation time
T2, room reverberation time with sample

Sound Absorption Coefficient



Practical absorption coefficient, BS EN ISO 11654:1997

v4.3

Quality Manager

Deputy Technical Manager