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INVESTOR IN PEOPLE

UKAS TESTING 0444

Test Certificate No. 5415

Contract: C/08/5L/20506

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Date: 16 January 2009

See SRL report C/08/5L/20506/R03 for full details

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

Client: Rockfon

Test Date: 01/12/2008

Empty Room:	**Temperature:**	17.7	°C	**Humidity:**	36	%RH	**Pressure:**	996	mbar
Room with Sample:	**Temperature:**	17.5	°C	**Humidity:**	38	%RH	**Pressure:**	996	mbar

Sample Description: Ekla - 1200x600x20mm - A edge

Mounting Method: E- 200

Sample Area: 12.96 m2

Chamber Volume: 300 m3

	Test 4			
Freq Hz	**T1 sec**	**T2 sec**	**Absorp Coeff**	**Practical Absorp Coeff #**
*50**	*4.07*	*3.61*	*0.12*	
*63**	*4.20*	*2.87*	*0.41*	*n/a*
*80**	*5.02*	*3.15*	*0.44*	
100	7.17	4.09	0.39	
125	7.70	3.73	0.52	0.50
160	6.92	3.21	0.63	
200	6.90	2.91	0.75	
250	6.92	2.62	0.89	0.85
315	6.64	2.49	0.94	
400	5.88	2.28	1.01	
500	4.99	2.19	0.96	0.95
630	4.95	2.21	0.94	
800	5.22	2.28	0.93	
1000	5.54	2.35	0.92	0.95
1250	5.33	2.18	1.02	
1600	4.79	2.10	1.01	
2000	4.19	1.92	1.07	1.00
2500	3.52	1.73	1.12	
3150	2.83	1.53	1.15	
4000	2.21	1.33	1.17	1.00
5000	1.61	1.09	1.18	
*6300**	*1.18*	*0.90*	*1.08*	
*8000**	*0.90*	*0.73*	*1.10*	*n/a*
*10000**	*0.64*	*0.57*	*0.88*	

α_w 1.00

Class A

Calculated to EN ISO 11654:1997

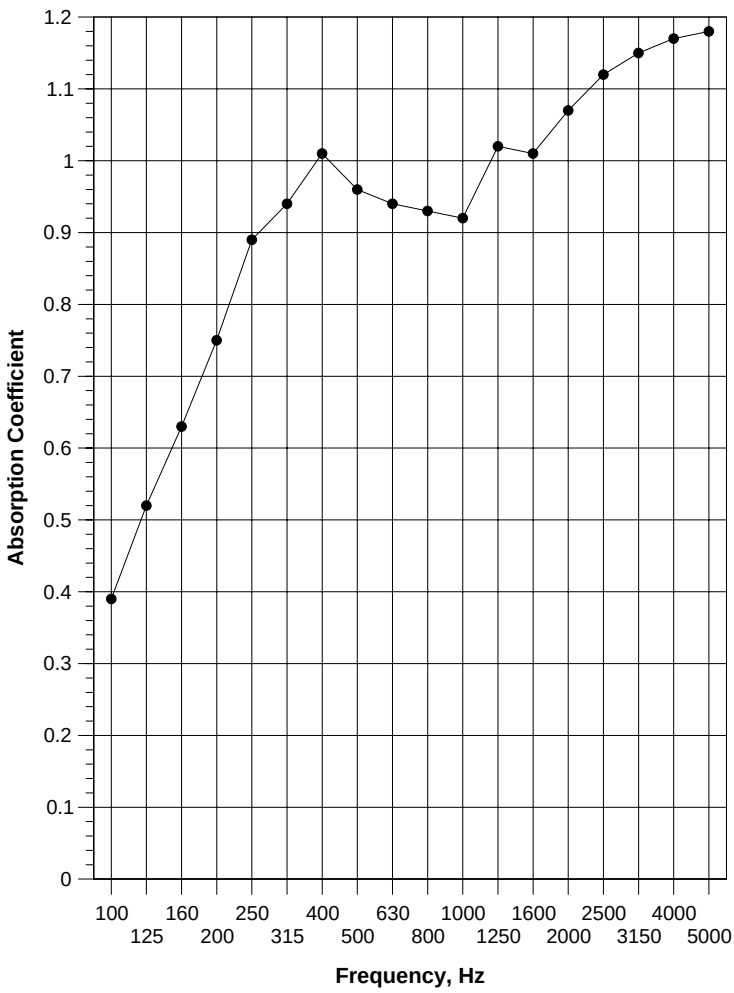
NRC 0.95

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

v3

Laboratory Manager
Quality Manager

Executive Consultant
Deputy Technical Manager