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Contract: C/23945

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Date: 03 January 2018

Confidential

See SRL report C/23945/T02 for full details

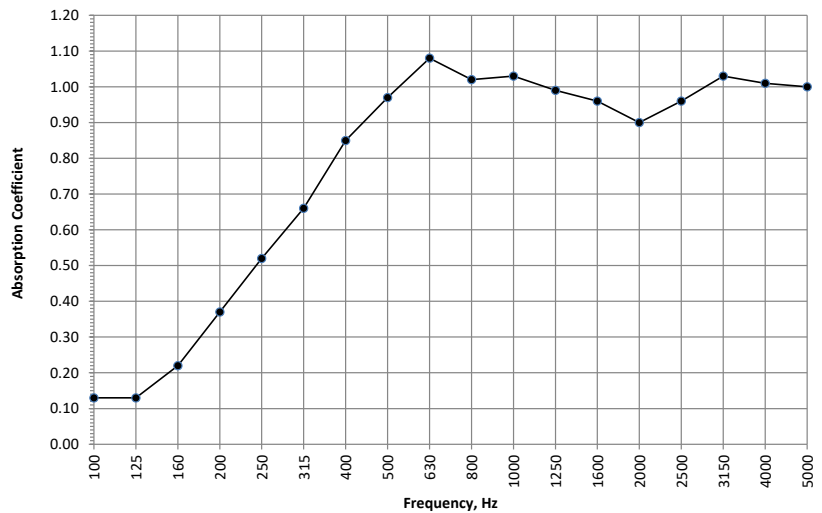
The Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

**Client:** Rockwool International A/S, Rockfon  
**Test Date:** 02/01/2018  
**Empty Room:** **Temperature:** 15.7 °C **Humidity:** 50 %RH **Pressure:** 1007 mbar  
**Room with Sample:** **Temperature:** 15.5 °C **Humidity:** 49 %RH **Pressure:** 999 mbar  
**Sample Description:** Rockfon® Pacific 600x600x12mm  
**Mounting Method:** E - 100  
**Sample Area:** 10.26 m<sup>2</sup>  
**Chamber Volume:** 300 m<sup>3</sup>

**Test 10**

Freq Hz	T1 sec	T2 sec	Absorp Coeff α <sub>s</sub>	Practical Absorp Coeff #
50*	4.62	4.73	-0.02	
63*	4.81	4.51	0.07	n/a
80*	7.27	6.39	0.09	
100	7.85	6.45	0.13	
125	7.40	6.15	0.13	0.15
160	6.90	5.23	0.22	
200	7.33	4.67	0.37	
250	7.43	4.09	0.52	0.50
315	7.24	3.61	0.66	
400	6.84	3.08	0.85	
500	6.13	2.72	0.97	0.95
630	5.68	2.48	1.08	
800	5.71	2.56	1.02	
1000	6.14	2.64	1.03	1.00
1250	5.87	2.64	0.99	
1600	5.31	2.56	0.96	
2000	4.85	2.52	0.90	0.95
2500	4.23	2.27	0.96	
3150	3.41	1.95	1.03	
4000	2.73	1.71	1.01	1.00
5000	2.10	1.44	1.00	
6300*	1.47	1.15	0.84	
8000*	1.15	0.96	0.73	n/a
10000*	0.79	0.68	0.86	
<b>α<sub>w</sub> 0.80(H)</b>				
<b>Class B</b>				
<small>Calculated to EN ISO 11654:1997</small>				
<b>NRC 0.85</b>				
<small>Calculated to ASTM C 423-01</small>				
<small>* Denotes frequencies outside the range covered by BS EN ISO 354:2003</small>				
<small>T1, empty room reverberation time T2, room reverberation time with sample</small>				

**Sound Absorption Coefficient**



# Practical absorption coefficient, BS EN ISO 11654:1997

v5



**Allen Smalls**  
Quality Manager



**Richard Critchlow**  
Deputy Technical Manager