



INVESTOR IN PEOPLE

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Contract: C/21751

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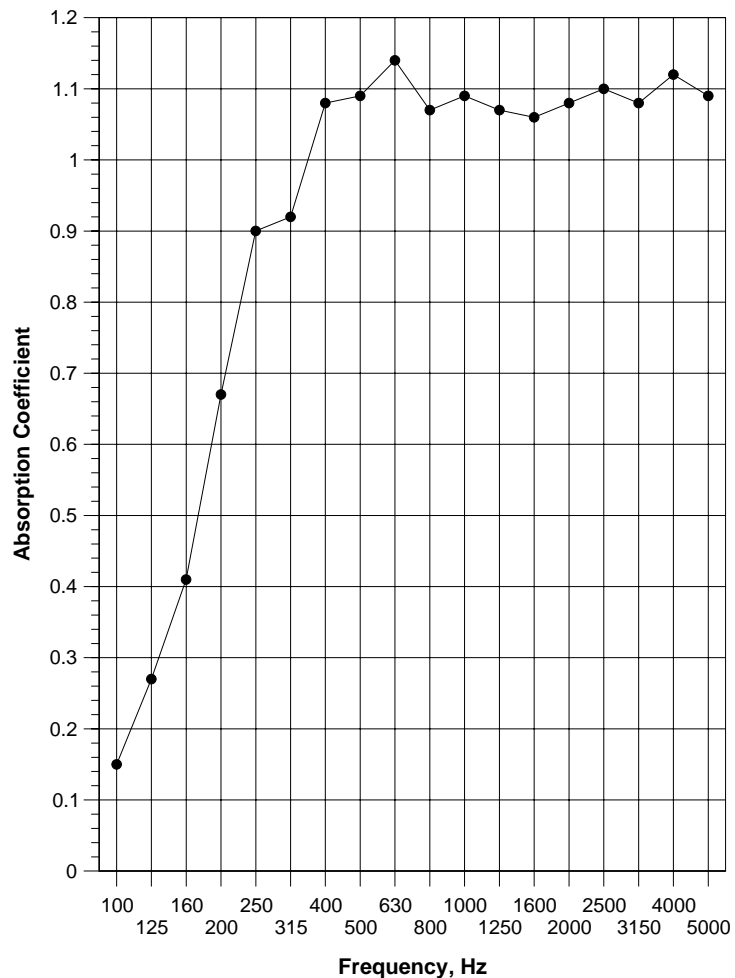
See SRL report C/21751/4 for full details

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

**Client:** Rockwool Asia, Rockwool (Hong Kong) Ltd  
**Test Date:** 21/09/2011  
**Empty Room:** Temperature: 17.8 °C Humidity: 68 %RH Pressure: 1010 mbar  
**Room with Sample:** Temperature: 17.8 °C Humidity: 70 %RH Pressure: 1010 mbar  
**Sample**  
**Description:** ThermalRock S100 1200x600x50mm 100kg/m<sup>3</sup>  
**Mounting Method:** A  
**Sample Area:** 10.8 m<sup>2</sup>  
**Chamber Volume:** 300 m<sup>3</sup>

**Sound Absorption Coefficient**

Test 20				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.45	4.28	0.04	
63*	4.73	4.60	0.03	n/a
80*	5.76	5.18	0.09	
100	7.97	6.28	0.15	
125	8.21	5.51	0.27	0.30
160	7.93	4.62	0.41	
200	7.61	3.56	0.67	
250	7.95	3.06	0.90	0.85
315	7.72	2.99	0.92	
400	6.86	2.59	1.08	
500	5.66	2.38	1.09	1.00
630	5.22	2.25	1.14	
800	5.69	2.42	1.07	
1000	6.33	2.50	1.09	1.00
1250	6.14	2.50	1.07	
1600	5.60	2.42	1.06	
2000	5.18	2.31	1.08	1.00
2500	4.63	2.17	1.10	
3150	3.93	2.03	1.08	
4000	3.30	1.82	1.12	1.00
5000	2.64	1.62	1.09	
6300*	2.01	1.36	1.11	
8000*	1.71	1.20	1.17	n/a
10000*	1.18	0.92	1.16	
<i>α<sub>w</sub></i> 1.00				
Class A				
Calculated to EN ISO 11654:1997				
NRC 1.05				
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				



# Practical absorption coefficient, BS EN ISO 11654:1997

v3.2