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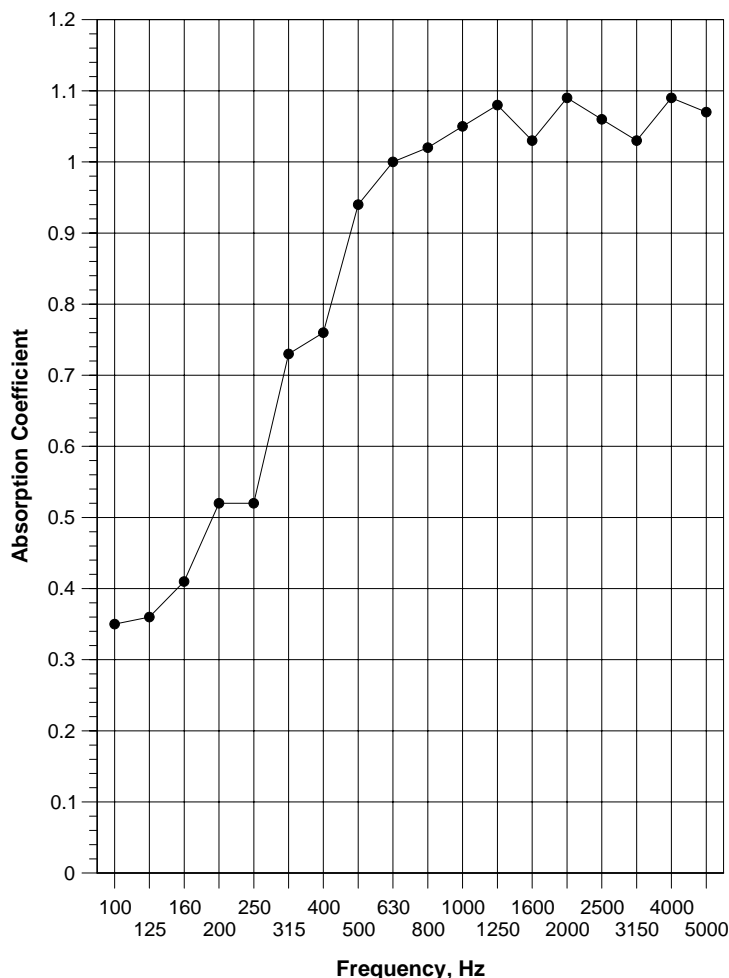
See SRL report C/09/5L/20684/R01a for full details

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

Client: Rockfon
Test Date: 13/03/2009
Empty Room: Temperature: 16.7 °C Humidity: 48 %RH Pressure: 1017 mbar
Room with Sample: Temperature: 16.4 °C Humidity: 48 %RH Pressure: 1017 mbar
Sample: Mono Acoustic 1800x1200x30mm
Description: Rendered surface (1kg/m2)
Mounting Method: E- 200
Sample Area: 12.96 m2
Chamber Volume: 300 m3

Sound Absorption Coefficient

| Test 4 | | | | |
|---|--------|--------|-----------------------------|--------------------------|
| Freq Hz | T1 sec | T2 sec | Absorp Coeff | Practical Absorp Coeff # |
| 50* | 5.72 | 3.41 | 0.45 | |
| 63* | 4.49 | 2.73 | 0.54 | n/a |
| 80* | 4.84 | 3.10 | 0.44 | |
| 100 | 7.60 | 4.44 | 0.35 | |
| 125 | 6.95 | 4.16 | 0.36 | 0.35 |
| 160 | 6.88 | 3.91 | 0.41 | |
| 200 | 6.92 | 3.52 | 0.52 | |
| 250 | 7.07 | 3.58 | 0.52 | 0.60 |
| 315 | 6.83 | 2.93 | 0.73 | |
| 400 | 6.14 | 2.73 | 0.76 | |
| 500 | 5.15 | 2.25 | 0.94 | 0.90 |
| 630 | 5.01 | 2.15 | 1.00 | |
| 800 | 5.34 | 2.18 | 1.02 | |
| 1000 | 5.80 | 2.21 | 1.05 | 1.00 |
| 1250 | 5.64 | 2.15 | 1.08 | |
| 1600 | 5.10 | 2.12 | 1.03 | |
| 2000 | 4.60 | 1.97 | 1.09 | 1.00 |
| 2500 | 4.02 | 1.88 | 1.06 | |
| 3150 | 3.26 | 1.72 | 1.03 | |
| 4000 | 2.62 | 1.48 | 1.09 | 1.00 |
| 5000 | 1.96 | 1.25 | 1.07 | |
| 6300* | 1.47 | 1.04 | 1.03 | |
| 8000* | 1.22 | 0.91 | 1.02 | n/a |
| 10000* | 0.87 | 0.69 | 1.08 | |
| <i>A_w</i> 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 | | | | |



Practical absorption coefficient, BS EN ISO 11654:1997

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