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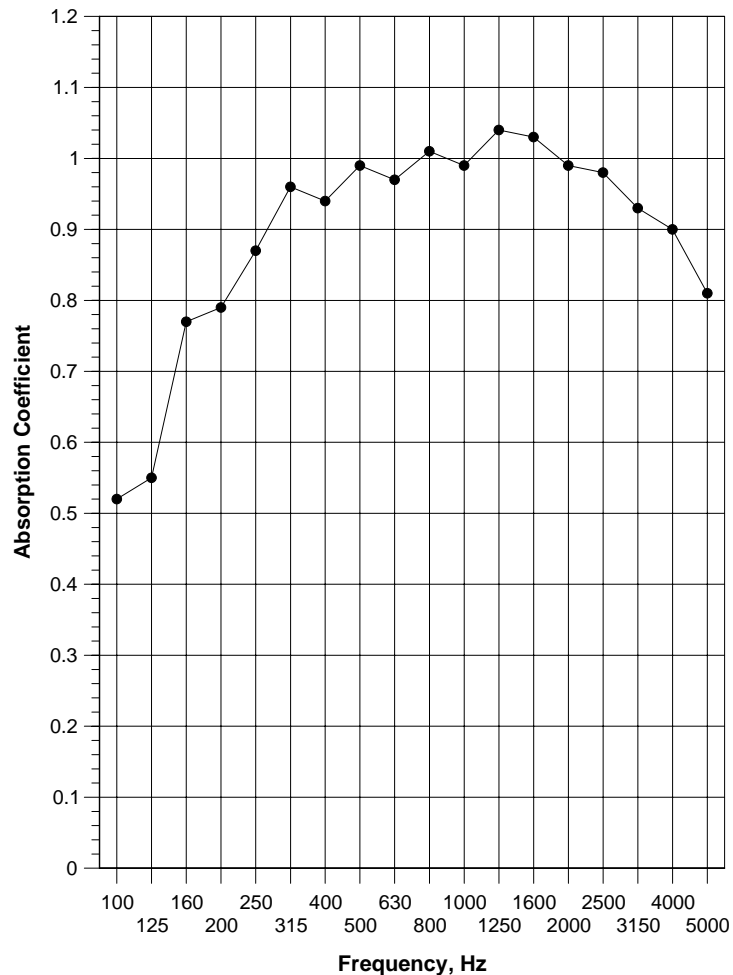
See SRL report C/09/5L/20788/R01 for full details

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

Client: Rockfon
Test Date: 18/06/2009
Empty Room: Temperature: 17.9 °C Humidity: 57 %RH Pressure: 1015 mbar
Room with Sample: Temperature: 18.2 °C Humidity: 50 %RH Pressure: 1015 mbar
Sample: BOXER, 1200x600x40mm, A edge
Description:
Mounting Method: E- 225
Sample Area: 12.96 m²
Chamber Volume: 300 m³

Sound Absorption Coefficient

| Test 17 | | | | |
|---|--------|--------|--------------|--------------------------|
| Freq Hz | T1 sec | T2 sec | Absorp Coeff | Practical Absorp Coeff # |
| 50* | 4.16 | 3.03 | 0.33 | |
| 63* | 4.24 | 3.01 | 0.36 | n/a |
| 80* | 4.20 | 3.00 | 0.36 | |
| 100 | 6.40 | 3.38 | 0.52 | |
| 125 | 7.50 | 3.55 | 0.55 | 0.60 |
| 160 | 7.40 | 2.92 | 0.77 | |
| 200 | 7.58 | 2.92 | 0.79 | |
| 250 | 8.21 | 2.83 | 0.87 | 0.85 |
| 315 | 7.77 | 2.59 | 0.96 | |
| 400 | 6.77 | 2.51 | 0.94 | |
| 500 | 5.70 | 2.27 | 0.99 | 0.95 |
| 630 | 5.48 | 2.26 | 0.97 | |
| 800 | 5.89 | 2.27 | 1.01 | |
| 1000 | 6.54 | 2.40 | 0.99 | 1.00 |
| 1250 | 6.38 | 2.30 | 1.04 | |
| 1600 | 5.82 | 2.23 | 1.03 | |
| 2000 | 5.21 | 2.17 | 0.99 | 1.00 |
| 2500 | 4.60 | 2.06 | 0.98 | |
| 3150 | 3.82 | 1.92 | 0.93 | |
| 4000 | 3.06 | 1.71 | 0.90 | 0.90 |
| 5000 | 2.43 | 1.52 | 0.81 | |
| 6300* | 1.79 | 1.23 | 0.78 | |
| 8000* | 1.35 | 1.02 | 0.64 | n/a |
| 10000* | 0.98 | 0.80 | 0.49 | |
| <i>a_w</i> 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 | | | | |



Practical absorption coefficient, BS EN ISO 11654:1997

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