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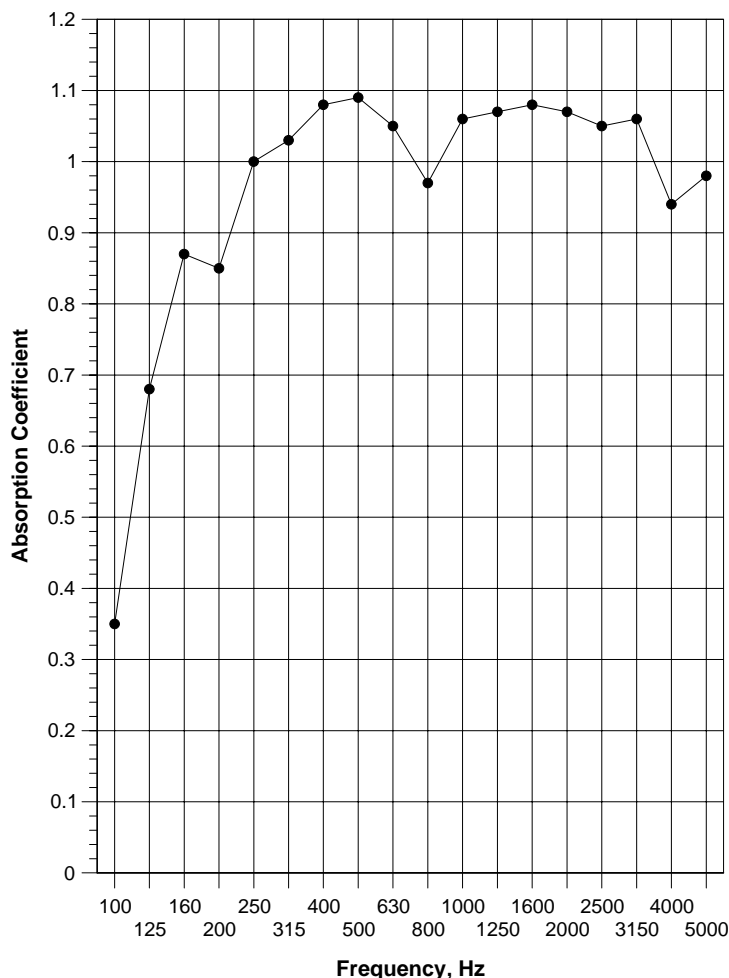
See SRL report C/09/5L/20958/R01 for full details

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

Client: Rockfon
Test Date: 02/10/2009
Empty Room: Temperature: 15.2 °C Humidity: 48 %RH Pressure: 1015 mbar
Room with Sample: Temperature: 15.9 °C Humidity: 50 %RH Pressure: 1015 mbar
Sample: Boxer 1200x600x40mm. Edge type A
Description:
Mounting Method: E- 225
Sample Area: 12.67 m²
Chamber Volume: 300 m³

Sound Absorption Coefficient

| Test 9 | | | | |
|---|--------|--------|--------------|--------------------------|
| Freq Hz | T1 sec | T2 sec | Absorp Coeff | Practical Absorp Coeff # |
| 50* | 3.19 | 3.05 | 0.05 | |
| 63* | 3.63 | 2.66 | 0.39 | n/a |
| 80* | 4.33 | 3.47 | 0.22 | |
| 100 | 6.01 | 3.87 | 0.35 | |
| 125 | 7.07 | 3.13 | 0.68 | 0.65 |
| 160 | 7.24 | 2.74 | 0.87 | |
| 200 | 7.74 | 2.85 | 0.85 | |
| 250 | 8.19 | 2.61 | 1.00 | 0.95 |
| 315 | 7.57 | 2.50 | 1.03 | |
| 400 | 6.92 | 2.35 | 1.08 | |
| 500 | 5.81 | 2.19 | 1.09 | 1.00 |
| 630 | 5.56 | 2.20 | 1.05 | |
| 800 | 5.93 | 2.37 | 0.97 | |
| 1000 | 6.42 | 2.32 | 1.06 | 1.00 |
| 1250 | 6.34 | 2.29 | 1.07 | |
| 1600 | 5.69 | 2.20 | 1.08 | |
| 2000 | 5.02 | 2.11 | 1.07 | 1.00 |
| 2500 | 4.34 | 2.01 | 1.05 | |
| 3150 | 3.51 | 1.81 | 1.06 | |
| 4000 | 2.66 | 1.65 | 0.94 | 1.00 |
| 5000 | 2.05 | 1.39 | 0.98 | |
| 6300* | 1.49 | 1.15 | 0.89 | |
| 8000* | 1.10 | 0.92 | 0.87 | n/a |
| 10000* | 0.79 | 0.71 | 0.79 | |
| <i>A_w</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

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