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Contract: C/22162

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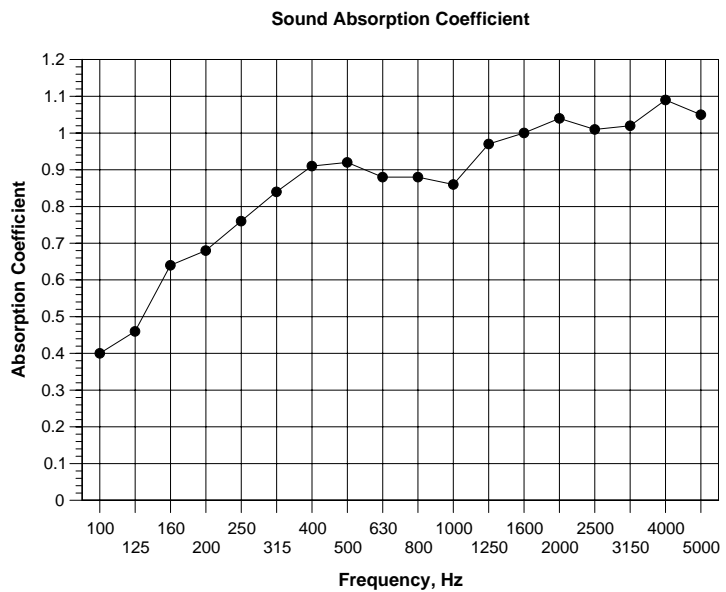
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See SRL report C/22162/R01 for full details

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

Client: Knauf AMF
Test Date: 29/03/2012
Empty Room: Temperature: 18.2 °C Humidity: 54 %RH Pressure: 1024 mbar
Room with Sample: Temperature: 17.6 °C Humidity: 43 %RH Pressure: 1024 mbar
Sample Description: Thermanex Alpha Varioline (wood pattern) 600x600x19mm
Mounting Method: E-200
Sample Area: 10.8 m2
Chamber Volume: 300 m3

| Test 50 | | | | |
|---------|--------|--------|--------------|--------------------------|
| Freq Hz | T1 sec | T2 sec | Absorp Coeff | Practical Absorp Coeff # |
| 50* | 4.65 | 3.56 | 0.30 | |
| 63* | 4.28 | 3.12 | 0.39 | n/a |
| 80* | 5.50 | 4.04 | 0.30 | |
| 100 | 6.79 | 4.23 | 0.40 | |
| 125 | 7.43 | 4.21 | 0.46 | 0.50 |
| 160 | 6.67 | 3.42 | 0.64 | |
| 200 | 7.13 | 3.43 | 0.68 | |
| 250 | 7.74 | 3.35 | 0.76 | 0.75 |
| 315 | 7.60 | 3.14 | 0.84 | |
| 400 | 6.84 | 2.88 | 0.91 | |
| 500 | 5.73 | 2.64 | 0.92 | 0.90 |
| 630 | 5.33 | 2.62 | 0.88 | |
| 800 | 5.80 | 2.72 | 0.88 | |
| 1000 | 6.23 | 2.84 | 0.86 | 0.90 |
| 1250 | 6.26 | 2.65 | 0.97 | |
| 1600 | 5.59 | 2.46 | 1.00 | |
| 2000 | 5.07 | 2.29 | 1.04 | 1.00 |
| 2500 | 4.48 | 2.15 | 1.01 | |
| 3150 | 3.73 | 1.91 | 1.02 | |
| 4000 | 3.10 | 1.64 | 1.09 | 1.00 |
| 5000 | 2.44 | 1.40 | 1.05 | |
| 6300* | 1.73 | 1.08 | 1.07 | |
| 8000* | 1.36 | 0.90 | 0.97 | n/a |
| 10000* | 0.95 | 0.67 | 0.97 | |



α_w 0.95
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

v4.2