



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

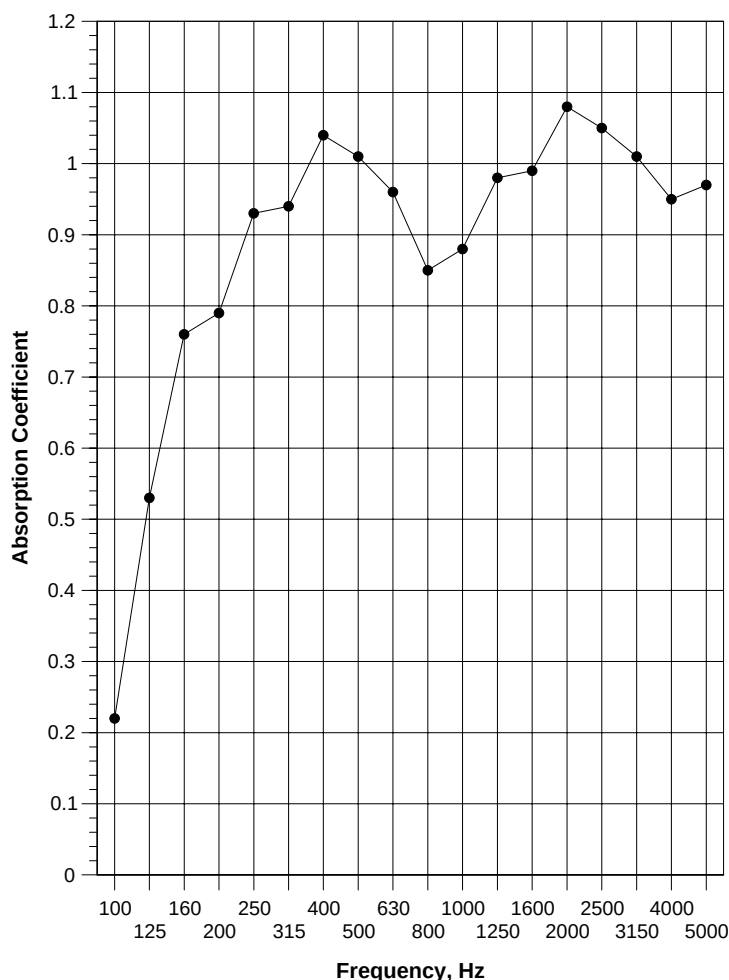
### The Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

**Client:** Rockfon  
**Test Date:** 02/10/2009  
**Empty Room:** Temperature: 15.2 °C Humidity: 48 %RH Pressure: 1015 mbar  
**Room with Sample:** Temperature: 15.8 °C Humidity: 49 %RH Pressure: 1015 mbar  
**Sample:** Boxer 1200x600x20mm. Edge type A  
**Description:**  
**Mounting Method:** E- 205  
**Sample Area:** 12.71 m<sup>2</sup>  
**Chamber Volume:** 300 m<sup>3</sup>

| Test 4  |        |        |              |                          |
|---------|--------|--------|--------------|--------------------------|
| Freq Hz | T1 sec | T2 sec | Absorp Coeff | Practical Absorp Coeff # |
| 50*     | 3.19   | 2.76   | 0.19         |                          |
| 63*     | 3.63   | 2.90   | 0.26         | n/a                      |
| 80*     | 4.33   | 3.55   | 0.19         |                          |
| 100     | 6.01   | 4.47   | 0.22         |                          |
| 125     | 7.07   | 3.56   | 0.53         | 0.50                     |
| 160     | 7.24   | 2.97   | 0.76         |                          |
| 200     | 7.74   | 2.98   | 0.79         |                          |
| 250     | 8.19   | 2.74   | 0.93         | 0.90                     |
| 315     | 7.57   | 2.65   | 0.94         |                          |
| 400     | 6.92   | 2.40   | 1.04         |                          |
| 500     | 5.81   | 2.29   | 1.01         | 1.00                     |
| 630     | 5.56   | 2.32   | 0.96         |                          |
| 800     | 5.93   | 2.56   | 0.85         |                          |
| 1000    | 6.42   | 2.60   | 0.88         | 0.90                     |
| 1250    | 6.34   | 2.42   | 0.98         |                          |
| 1600    | 5.69   | 2.31   | 0.99         |                          |
| 2000    | 5.02   | 2.09   | 1.08         | 1.00                     |
| 2500    | 4.34   | 2.00   | 1.05         |                          |
| 3150    | 3.51   | 1.84   | 1.01         |                          |
| 4000    | 2.66   | 1.63   | 0.95         | 1.00                     |
| 5000    | 2.05   | 1.38   | 0.97         |                          |
| 6300*   | 1.49   | 1.14   | 0.88         |                          |
| 8000*   | 1.10   | 0.92   | 0.80         | n/a                      |
| 10000*  | 0.79   | 0.71   | 0.70         |                          |

|                                                                       |      |
|-----------------------------------------------------------------------|------|
| $\alpha_w$                                                            | 1.00 |
| Class A                                                               |      |
| Calculated to EN ISO 11654:1997                                       |      |
| NRC                                                                   | 1.00 |
| 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                               |      |

Sound Absorption Coefficient



# Practical absorption coefficient, BS EN ISO 11654:1997

v3