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0444

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Confidential

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See SRL Report 83155-SRL-RP-XT-001-P1 for full details

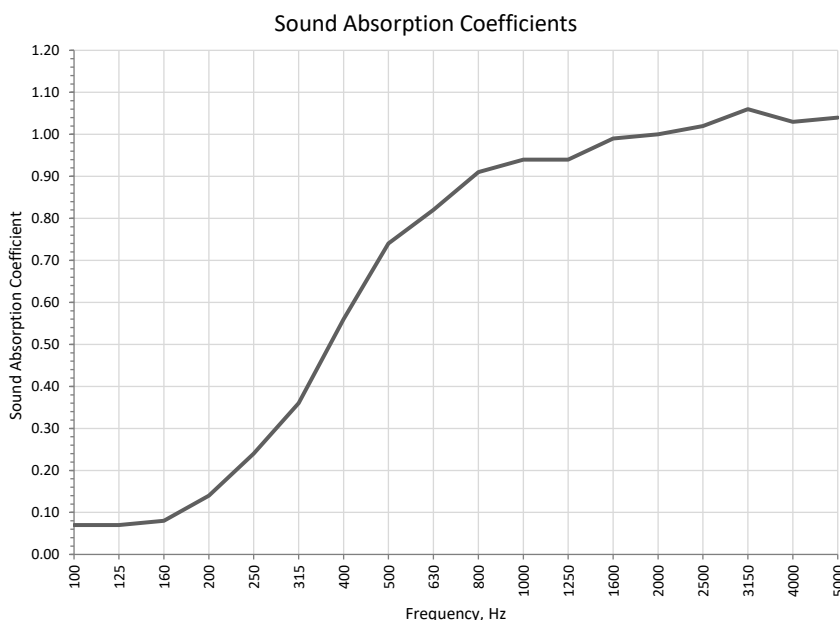
Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

Test Number: I
Client: Siderise (Special Products) Ltd
Test Date: 11/12/2025
Chamber Volume: 300.1 m³
Mounting Method: A
Sample Description: ALS-25 (25mm Thick)

Test Room: Empty
Air Temperature: 15.4 °C
Air Humidity: 59 % RH
Air Pressure: 1012 mbar
Sample Area: 11 m²

With Sample
15.5 °C
59 % RH
1011 mbar

| Frequency Hz | T1, empty room reverberation time sec | T2, room reverberation time with sample sec | Sound Absorption Coefficient α_s | Practical Sound Absorption Coefficient α_p |
|--------------|---------------------------------------|---|---|---|
| 50* | 4.95 | 4.87 | 0.01 | n/a |
| 63* | 5.59 | 5.58 | 0.00 | |
| 80* | 7.16 | 6.92 | 0.02 | |
| 100 | 7.29 | 6.52 | 0.07 | 0.05 |
| 125 | 6.90 | 6.23 | 0.07 | |
| 160 | 6.76 | 6.02 | 0.08 | |
| 200 | 6.23 | 5.19 | 0.14 | 0.25 |
| 250 | 6.79 | 4.94 | 0.24 | |
| 315 | 6.78 | 4.38 | 0.36 | |
| 400 | 6.31 | 3.51 | 0.56 | 0.70 |
| 500 | 5.48 | 2.85 | 0.74 | |
| 630 | 4.83 | 2.54 | 0.82 | |
| 800 | 5.10 | 2.49 | 0.91 | 0.95 |
| 1000 | 5.50 | 2.54 | 0.94 | |
| 1250 | 5.48 | 2.53 | 0.94 | |
| 1600 | 5.05 | 2.38 | 0.99 | 1.00 |
| 2000 | 4.57 | 2.25 | 1.00 | |
| 2500 | 4.12 | 2.11 | 1.02 | |
| 3150 | 3.41 | 1.88 | 1.06 | 1.00 |
| 4000 | 2.75 | 1.68 | 1.03 | |
| 5000 | 2.12 | 1.42 | 1.04 | |
| 6300* | 1.56 | 1.16 | 0.98 | n/a |
| 8000* | 1.36 | 1.03 | 1.07 | |
| 10000* | 0.94 | 0.77 | 1.02 | |



α_w 0.55(MH)

Class D
Calculated to BS EN ISO 11654:1997

NRC 0.75
Calculated to ASTM C 423-01

* Denotes frequencies outside the range covered by BS EN ISO 354:2003 and not UKAS accredited

Version 4

Kieron Farrow
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Tester

Allen Smalls
Allen Smalls
Quality Manager