



**Sound Research
Laboratories**



Test Certificate Number

20182



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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

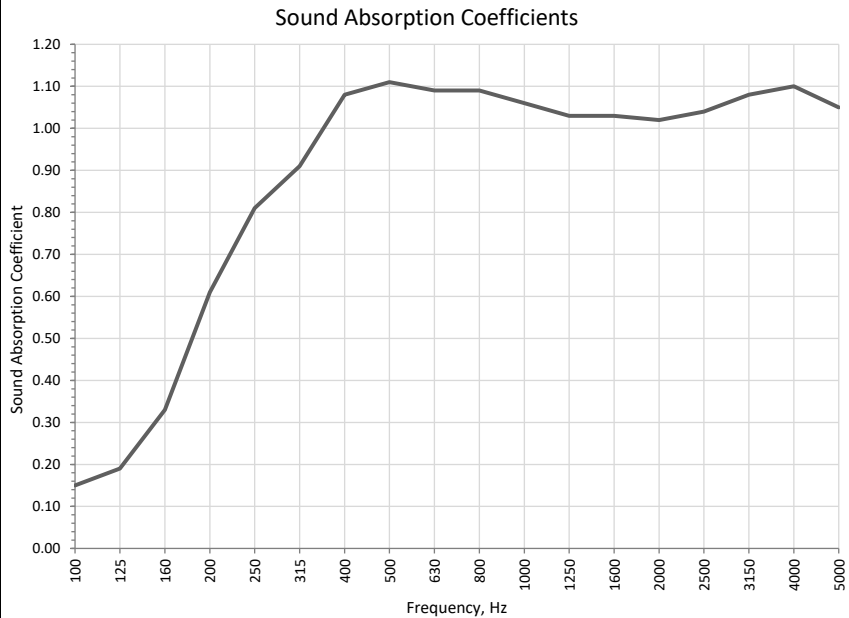
Laboratory Measurement of Random Incidence Sound Absorption to BS EN ISO 354:2003

Test Number: 2
Client: Siderise (Special Products) Ltd
Test Date: 11/12/2025
Chamber Volume: 300.1 m³
Mounting Method: A
Sample Description: ALS-50 (50mm Thick)

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

With Sample
15.6 °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 | 4.75 | 0.04 | n/a |
| 63* | 5.59 | 5.40 | 0.03 | |
| 80* | 7.16 | 6.68 | 0.04 | |
| 100 | 7.29 | 5.84 | 0.15 | 0.20 |
| 125 | 6.90 | 5.33 | 0.19 | |
| 160 | 6.76 | 4.49 | 0.33 | |
| 200 | 6.23 | 3.35 | 0.61 | 0.80 |
| 250 | 6.79 | 3.02 | 0.81 | |
| 315 | 6.78 | 2.83 | 0.91 | |
| 400 | 6.31 | 2.48 | 1.08 | 1.00 |
| 500 | 5.48 | 2.31 | 1.11 | |
| 630 | 4.83 | 2.21 | 1.09 | |
| 800 | 5.10 | 2.26 | 1.09 | 1.00 |
| 1000 | 5.50 | 2.37 | 1.06 | |
| 1250 | 5.48 | 2.41 | 1.03 | |
| 1600 | 5.05 | 2.32 | 1.03 | 1.00 |
| 2000 | 4.57 | 2.23 | 1.02 | |
| 2500 | 4.12 | 2.09 | 1.04 | |
| 3150 | 3.41 | 1.86 | 1.08 | 1.00 |
| 4000 | 2.75 | 1.63 | 1.10 | |
| 5000 | 2.12 | 1.41 | 1.05 | |
| 6300* | 1.56 | 1.15 | 1.04 | n/a |
| 8000* | 1.36 | 1.03 | 1.09 | |
| 10000* | 0.94 | 0.77 | 1.08 | |



| | |
|--|------|
| α_w | 1.00 |
| Class A | |
| <small>Calculated to BS EN ISO 11654:1997</small> | |
| NRC | 1.00 |
| <small>Calculated to ASTM C 423-01</small> | |
| <small>* Denotes frequencies outside the range covered by BS EN ISO 354:2003 and not UKAS accredited</small> | |
| <small>Version 4</small> | |

Kieron Farrow

Kieron Farrow
Tester

Allen Smalls

Allen Smalls
Quality Manager