

Confidential

See SRL report C/23125/T01 for full details

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

**Client:** BAUSEWEIN Metaldecken GmbH

**Test Date:** 08/06/2015

**Empty Room:** Temperature: 17.4 °C Humidity: 71 %RH Pressure: 1025 mbar

**Room with Sample:** Temperature: 17.5 °C Humidity: 63 %RH Pressure: 1025 mbar

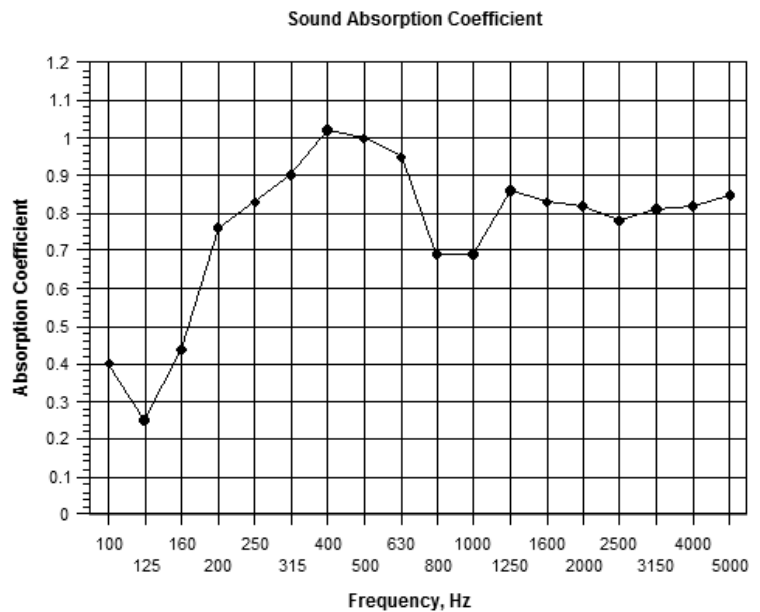
**Sample Description:** 600x600mm Bausewein Metal Qg 6030 (Q602) with fleece R6/60 FF

**Mounting Method:** E-200

**Sample Area:** 10.8 m<sup>2</sup>

**Chamber Volume:** 300 m<sup>3</sup>

| Test 5     |           |           |                 |                                |
|------------|-----------|-----------|-----------------|--------------------------------|
| Freq<br>Hz | T1<br>sec | T2<br>sec | Absorp<br>Coeff | Practical<br>Absorp<br>Coeff # |
| 50*        | 4.83      | 4.11      | 0.16            |                                |
| 63*        | 4.89      | 3.61      | 0.33            | n/a                            |
| 80*        | 5.67      | 4.02      | 0.33            |                                |
| 100        | 7.87      | 4.63      | 0.40            |                                |
| 125        | 7.46      | 5.28      | 0.25            | 0.35                           |
| 160        | 7.02      | 4.17      | 0.44            |                                |
| 200        | 7.19      | 3.25      | 0.76            |                                |
| 250        | 7.59      | 3.16      | 0.83            | 0.85                           |
| 315        | 6.82      | 2.89      | 0.90            |                                |
| 400        | 6.62      | 2.65      | 1.02            |                                |
| 500        | 5.68      | 2.51      | 1.00            | 1.00                           |
| 630        | 5.25      | 2.49      | 0.95            |                                |
| 800        | 5.60      | 3.01      | 0.69            |                                |
| 1000       | 6.08      | 3.14      | 0.69            | 0.75                           |
| 1250       | 5.83      | 2.75      | 0.86            |                                |
| 1600       | 5.34      | 2.69      | 0.83            |                                |
| 2000       | 4.86      | 2.56      | 0.82            | 0.80                           |
| 2500       | 4.44      | 2.48      | 0.78            |                                |
| 3150       | 3.78      | 2.21      | 0.81            |                                |
| 4000       | 3.07      | 1.92      | 0.82            | 0.85                           |
| 5000       | 2.44      | 1.61      | 0.85            |                                |
| 6300*      | 1.78      | 1.28      | 0.83            |                                |
| 8000*      | 1.44      | 1.09      | 0.76            | n/a                            |
| 10000*     | 1.04      | 0.83      | 0.73            |                                |



$\alpha_w$  0.80(L)

Class B

Calculated to EN ISO 11654:1997

NRC 0.85

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

v4.3



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