

Confidential

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

Client: BAUSEWEIN Metalldecken 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: 62 %RH Pressure: 1025 mbar

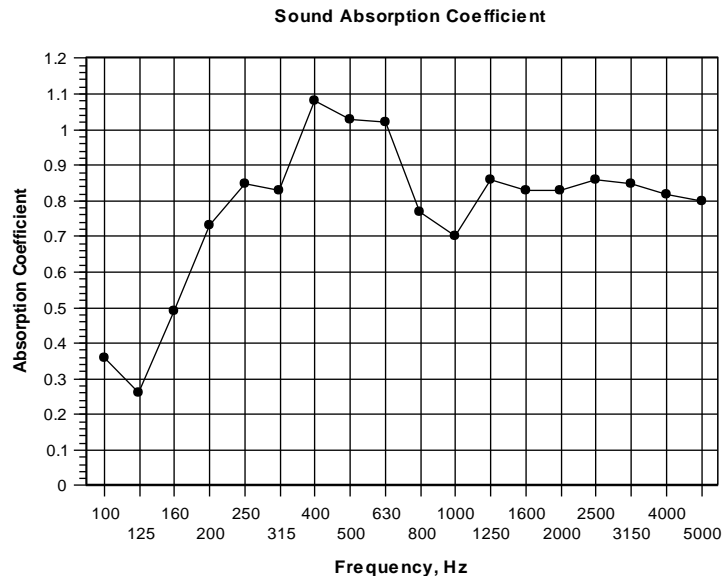
Sample Description: 600x600mm Bausewein Metal Rg 2516 (LB252) with fleece R6/60 FF

Mounting Method: E-200

Sample Area: 10.8 m²

Chamber Volume: 300 m³

Test 7				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.83	4.25	0.13	
63*	4.89	3.65	0.31	n/a
80*	5.67	4.39	0.23	
100	7.87	4.84	0.36	
125	7.46	5.21	0.26	0.35
160	7.02	3.96	0.49	
200	7.19	3.31	0.73	
250	7.59	3.12	0.85	0.80
315	6.82	3.02	0.83	
400	6.62	2.56	1.08	
500	5.68	2.47	1.03	1.00
630	5.25	2.40	1.02	
800	5.60	2.86	0.77	
1000	6.08	3.13	0.70	0.80
1250	5.83	2.76	0.86	
1600	5.34	2.69	0.83	
2000	4.86	2.54	0.83	0.85
2500	4.44	2.38	0.86	
3150	3.78	2.16	0.85	
4000	3.07	1.91	0.82	0.80
5000	2.44	1.63	0.80	
6300*	1.78	1.29	0.78	
8000*	1.44	1.07	0.80	n/a
10000*	1.04	0.81	0.81	



α_w 0.85

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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