

Confidential

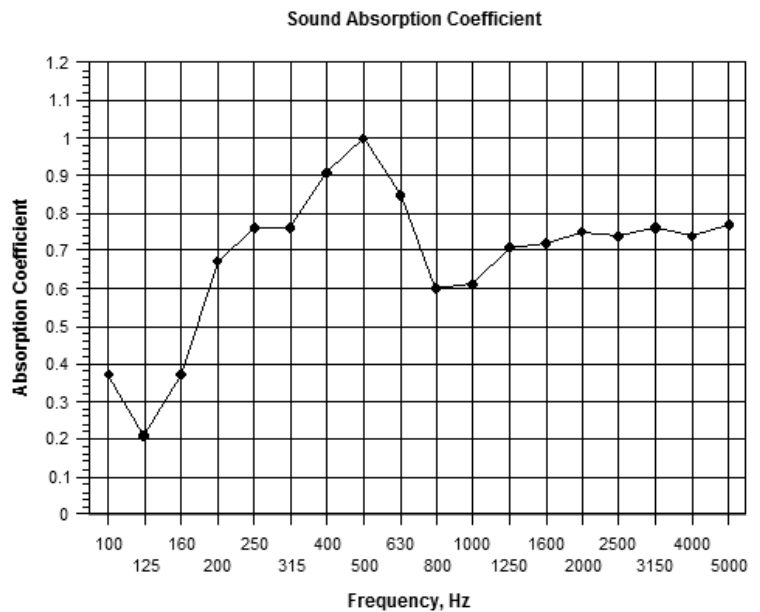
See SRL report C/23125/T01 for full details

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: 61 %RH Pressure: 1025 mbar  
**Sample Description:** 600x600mm Bausewein Metal Rd 1625 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 10				
Freq Hz	T1 sec	T2 sec	Absorp Coeff	Practical Absorp Coeff #
50*	4.83	4.50	0.07	
63*	4.89	3.99	0.21	n/a
80*	5.67	4.48	0.21	
100	7.87	4.75	0.37	
125	7.46	5.53	0.21	0.30
160	7.02	4.43	0.37	
200	7.19	3.47	0.67	
250	7.59	3.32	0.76	0.75
315	6.82	3.16	0.76	
400	6.62	2.83	0.91	
500	5.68	2.51	1.00	0.90
630	5.25	2.64	0.85	
800	5.60	3.21	0.60	
1000	6.08	3.35	0.61	0.65
1250	5.83	3.03	0.71	
1600	5.34	2.88	0.72	
2000	4.86	2.67	0.75	0.75
2500	4.44	2.53	0.74	
3150	3.78	2.26	0.76	
4000	3.07	1.97	0.74	0.75
5000	2.44	1.64	0.77	
6300*	1.78	1.31	0.71	
8000*	1.44	1.09	0.69	n/a
10000*	1.04	0.80	0.83	



$A_w$  0.75  
 Class C  
 Calculated to EN ISO 11654:1997  
 NRC 0.80  
 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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