

**Sound Research
Laboratories Limited**

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Contract C/00/5L/7873

TEST CERTIFICATE

Number 2175

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Date 19 May 2000

The Laboratory Measurement of Random Incidence Sound Absorption Generally to BS EN 20354: 1993

Client: Armstrong World Industries Ltd, Armstrong House, 38 Market Square, Uxbridge, Middlesex. UB8 1NG

Test Date: 03/05/00

See SRL report C10015L787311 for full details of testing

Sample

Description: Orcal Board / Micro Perf. 138 with acoustic fleece/f - 600 x 600mm

Sample Area: 10.8 m²

Cavity Depth: 200mm

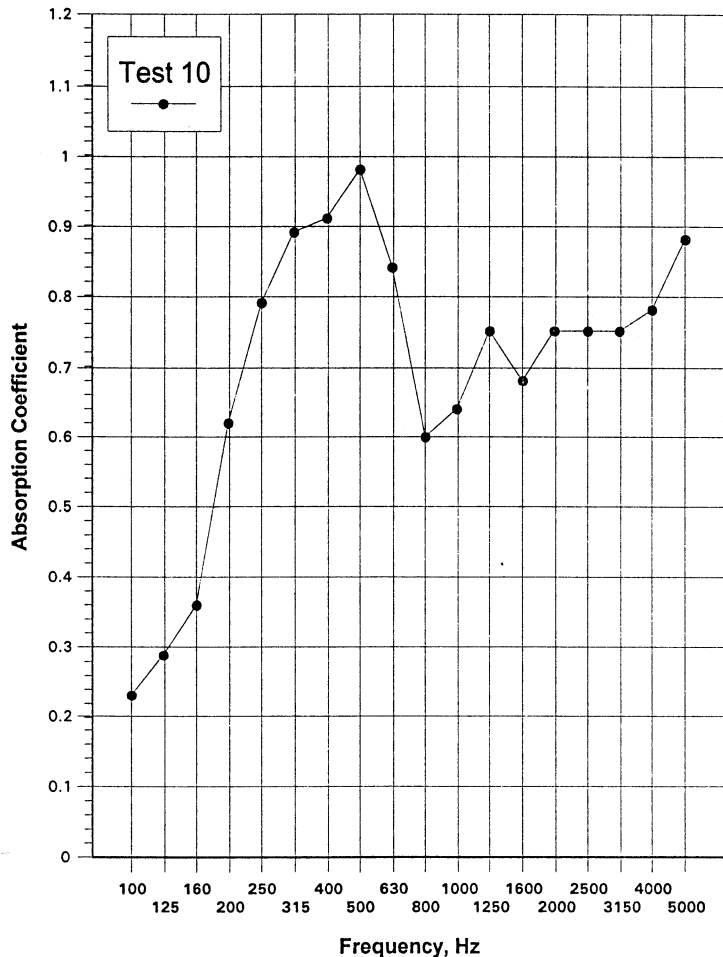
Chamber Volume: 300 m³

Test 10			
Freq Hz	T1 sec	T2 sec	Absorp Coeff
50*	5.20	4.96	0.04
63*	4.29	3.86	0.12
80*	4.77	4.29	0.10
100	6.72	5.02	0.23
125	6.59	4.63	0.29
160	6.87	4.41	0.36
200	8.00	3.79	0.62
250	8.77	3.44	0.79
315	8.20	3.13	0.89
400	7.45	2.98	0.91
500	6.36	2.66	0.98
630	5.73	2.77	0.84
800	5.89	3.30	0.60
1000	6.35	3.33	0.64
1250	6.22	3.05	0.75
1600	5.70	3.06	0.68
2000	5.09	2.76	0.75
2500	4.44	2.55	0.75
3150	3.57	2.24	0.75
4000	2.93	1.94	0.78
5000	2.35	1.61	0.88
6300*	1.96	1.44	0.83
8000*	1.34	1.09	0.77
10000*	0.99	0.86	0.69
<i>a_w</i>			0.75
Calculated to EN ISO 11654:1997			
NRC			0.80
Calculated to ASTM C 423-90a			

*Denotes frequencies outside the range covered
by BS EN 20354:1993

T1, empty room reverberation time
T2, room reverberation time with sample

**Graph 1
Sound Absorption Coefficient**



Laboratory Engineer

Laboratory Manager