

# Sound Research Laboratories Limited

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Contract C/00/5L/7973

# TEST CERTIFICATE

Number 2253

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Date 4 October 2000

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

Client: Armstrong, Kingsway South, Team Valley Trading Est., Gateshead, Tyne and Wear, NE11 0SP.

Test Date: 12/09/00

See SRL report C/00/5L/7973/1 for full details of testing

### Sample

Description: Orcal Metal Tile with Extramicro Perforation 0701 with acoustic fleece - 600 x 600mm tiles

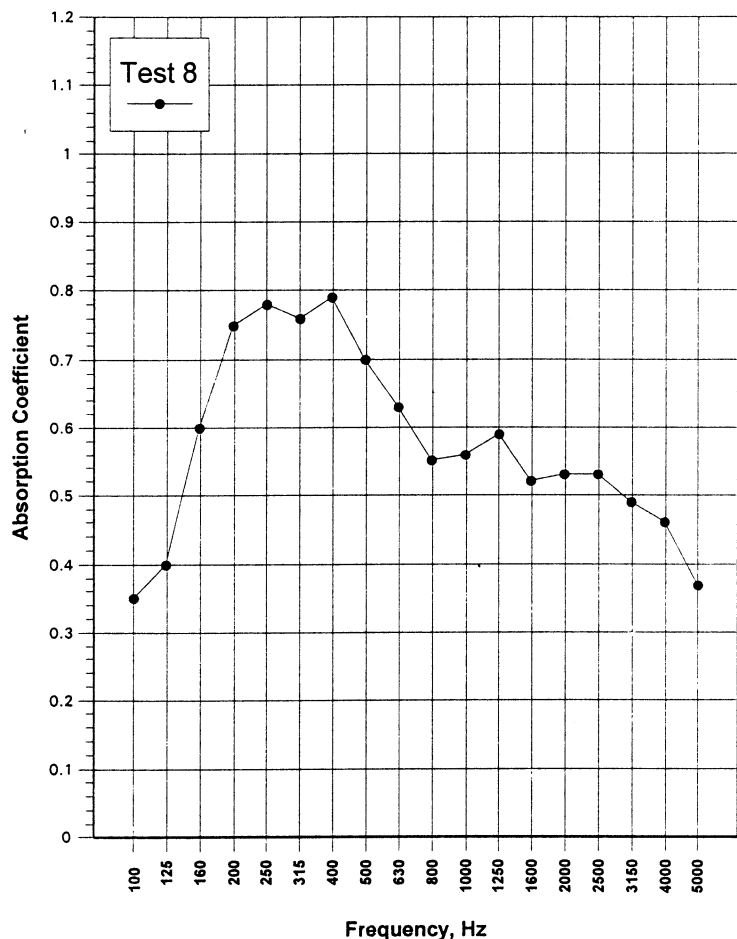
Sample Area: 10.8 m<sup>2</sup>

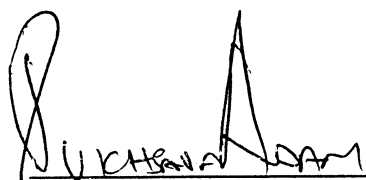
Cavity Depth: 200mm

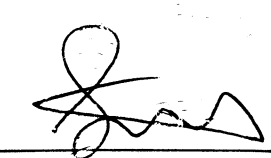
Chamber Volume: 300 m<sup>3</sup>

Test 8			
Freq Hz	T1 sec	T2 sec	Absorp Coeff
50*	5.66	4.27	0.26
63*	4.15	3.66	0.14
80*	4.83	3.86	0.23
100	6.38	4.27	0.35
125	7.09	4.35	0.40
160	7.07	3.64	0.60
200	8.47	3.51	0.75
250	8.90	3.50	0.78
315	8.28	3.43	0.76
400	7.38	3.20	0.79
500	6.30	3.18	0.70
630	5.51	3.11	0.63
800	5.79	3.39	0.55
1000	6.17	3.48	0.56
1250	6.07	3.36	0.59
1600	5.59	3.39	0.52
2000	5.16	3.20	0.53
2500	4.58	2.96	0.53
3150	3.84	2.71	0.49
4000	3.27	2.45	0.46
5000	2.70	2.21	0.37
6300*	2.28	1.92	0.37
8000*	1.65	1.44	0.39
10000*	1.25	1.17	0.24
$\alpha_w$			0.55(L)
Calculated to EN ISO 11654:1997			
NRC			0.65
Calculated to ASTM C 423-90a			
<small>* Denotes frequencies outside the range covered by BS EN 20354:1993</small>			

Graph 1  
Sound Absorption Coefficient



  
Laboratory Engineer

  
Laboratory Manager