

# Equivalent Absorption Area in m<sup>2</sup>

Unit 3/2 Hardy Street  
South Perth 6151

**INDICATIVE TEST ONLY**

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**ALA Test No.:** ALA 18-088-1  
**Sample:** 600 Bass Trap

**Description of Sample:**

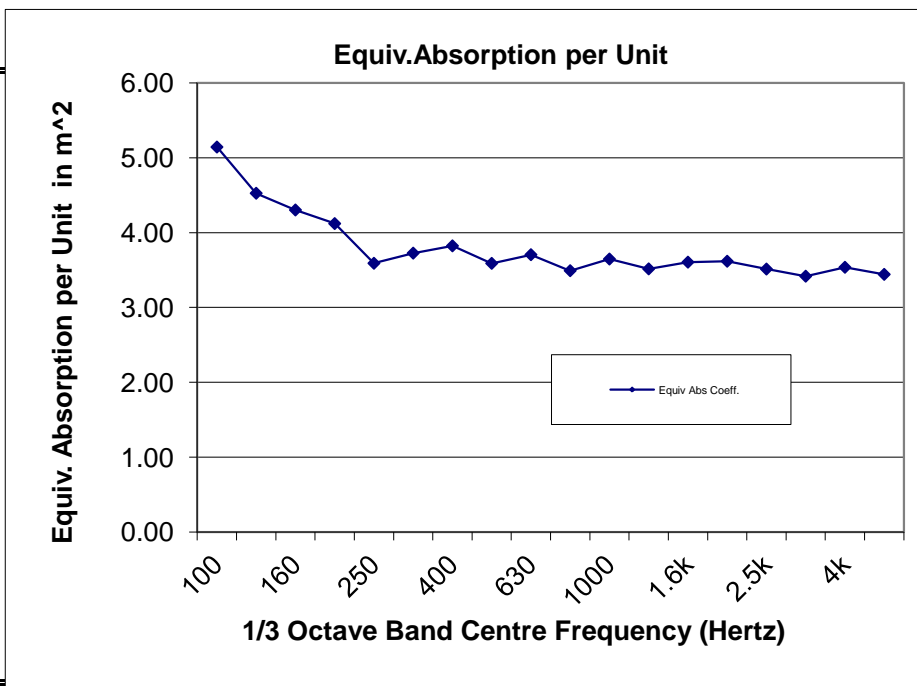
600 Bass trap  
600 x 600 2,400mm high element  
50mm Autex Quiet Space Box,  
Filled with 32Kg/m<sup>3</sup> density insulation  
2 units located in tri-hedral corners of Reverb Room

**Meas. Date:** 26-May-18  
**Face Area per Unit :** 4.1 m<sup>2</sup>  
**Test Specimen Mounting:** Type: J  
**Air Gap behind sample:** 0 mm  
**Location of sample:** 2 Trihedral Cnrs  
**Shape of Reverb Chamber:** 7m x 6m x 5m  
**Volume of Reverb Chamber:** 208 m<sup>3</sup>  
**Area of Diffusers:** 46.1 m<sup>2</sup>

1/3 Octave Centre Frequency	Equiv Absorption Empty Room	Equiv Abs for room with Sample, 2 elements	Equivalent Absorption per element
Hz	m <sup>2</sup>	m <sup>2</sup>	m <sup>2</sup>

	Sample in Room	Empty Room	
<b>Temp:</b>	15.2	15.1	C
<b>RH:</b>	60	56.8	%
<b>Atmos. Pressure:</b>	1007	1010	hPA

100	7.8	18.1	5.14
125	6.3	15.3	4.53
160	5.1	13.7	4.30
200	4.2	12.4	4.12
250	3.8	11.0	3.59
315	3.9	11.3	3.73
400	3.9	11.6	3.82
500	4.2	11.4	3.59
630	4.8	12.2	3.71
800	5.8	12.8	3.49
1k	7.2	14.5	3.65
1.25k	8.1	15.2	3.52
1.6k	8.7	15.9	3.61
2k	9.1	16.4	3.62
2.5k	9.7	16.8	3.51
3.15k	10.8	17.7	3.42
4k	12.7	19.8	3.54
5k	15.8	22.7	3.44



**\* NOTE:** The Equivalent Absorption area is the hypothetical area of a totally absorbing surface that provides the same overall acoustic absorption as the element tested; Measured in m<sup>2</sup>.

There is no standard method for measuring absorption coefficients for spaced unit absorbers, particularly when located in trihedral corners. The sound absorption performance must not be compared to the performance of wall and ceiling absorbers.