

The University of Sydney

Acoustic Laboratory



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From:
Ken Stewart on behalf of
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Subject: **Sound Absorption Tests:**

20th November 2003

Dear Danielle,

You requested sound absorption tests on the following sample:

SAMPLE 1: 100% PET 2400gsm 12mm thick Made in Australia Col. 443

The tests were carried out to Australia Standard AS 1935.1: 1998, in one of the Faculty of Architecture Design Science Planning impedance tubes. As such the results are of normal incidence absorption coefficients rather than the random incidence figures which are usually quoted or statistical absorption coefficients which are occasionally quoted. The random incidence and statistical absorption coefficients will usually be higher than the normal incidence values quoted here. The normal incidence results are given below:

Normal Incidence Absorption Coefficients at frequencies of:

No Air Gap	125 Hz	250 Hz	500 Hz	1kHz	2kHz	4kHz	NRC
sample 1	0.02	0.04	0.09	0.27	0.60	0.93	0.25
20mm Air Gap	125 Hz	250 Hz	500 Hz	1kHz	2kHz	4kHz	NRC
sample 1	0.06	0.16	0.28	0.76	0.94	0.80	0.54

Yours faithfully

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