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METHOD FOR THE MEASUREMENT OF

NORMAL INCIDENCE SOUND ABSORPTION COEFFICIENT AND SPECIFIC NORMAL ACOUSTIC IMPEDANCE

OF ACOUSTIC MATERIALS BY THE TUBE METHOD

STANDARDS ASSOCIATION OF AUSTRALIA
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THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL ORGANIZATIONS and departments were officially represented on the committee entrusted with the preparation of this standard:

Australian Acoustical Society

CSIRO Division of Building Research

Environment Protection Authority, Victoria

Experimental Building Station

N.S.W. Institute of Technology

Public Works Department, Western Australia

Royal Australian Institute of Architects

Royal Melbourne Institute of Technology

Universities

This standard, prepared under the direction of Committee AK/4, Architectural Acoustics, was approved on behalf of the Council of the Standards Association of Australia on 9 April 1976, and was published on 1 December 1976.

To keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvements to published standards, addressed to the head office of the Association, are welcomed.

This standard was issued in draft form for public review as DR 75060.

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AUSTRALIAN STANDARD

METHOD FOR MEASUREMENT OF NORMAL INCIDENCE SOUND ABSORPTION COEFFICIENT AND SPECIFIC NORMAL ACOUSTIC IMPEDENCE OF ACOUSTIC MATERIALS BY THE TUBE METHOD

AS 1935—1976

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PREFACE

This standard was prepared by the Association's Committee on Architectural Acoustics. It describes a simple and rapid technique for measurement of the normal incidence sound absorption coefficient and specific normal acoustic impedance of acoustic materials with small specimens 0·1 m^2 or less in area, and is based on ASTM C384, Method of Test for Impedance and Absorption of Acoustical Materials by the Tube Method.

The more generally accepted method employed for the determination of sound absorption coefficients of acoustic materials used as surface treatments in rooms and the like is by the use of the reverberation chamber method. Its acceptance is based on the fact that field conditions can be closely simulated for the random incidence of sound waves on the product and the method of mounting the test specimen. However, reverberation chamber methods are relatively expensive and time-consuming, require a large area of specimen and involve elaborate test facilities (see AS 1045*). The tube method offers relatively economical and rapid assessment of small samples of materials which is particularly useful during product development; however, the sound absorption coefficients obtained in this way may differ from those obtained by the reverberation chamber method.

* AS 1045, Method of Measurement of Absorption Coefficients in a Reverberation Room.

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