INTERNATIONAL STANDARD

ISO 354

Second edition 2003-05-15

Acoustics — Measurement of sound absorption in a reverberation room

Acoustique — Mesurage de l'absorption acoustique en salle réverbérante



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO 2003

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office Case postale 56 • CH-1211 Geneva 20 Tel. + 41 22 749 01 11 Fax + 41 22 749 09 47 E-mail copyright@iso.org Web www.iso.org

Published in Switzerland

Contents

Page

Forev	word	iv
Intro	duction	٠١
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	3
5	Frequency range	
6	Test arrangement	3
6.1	Reverberation room and diffusion of sound field	3
6.2	Test specimens	4
6.3	Temperature and relative humidity	5
7	Measurement of reverberation time	
7.1	General	5
7.2	Interrupted noise method	
7.3	Integrated impulse response method	
7.4	Evaluation of reverberation times based on decay curves	9
8	Expression of results	
8.1	Method of calculation	
8.2	Precision	
8.3	Presentation of results	12
9	Test report	13
Anne	ex A (normative) Diffusivity of the sound field in the reverberation room	14
Anne	ex B (normative) Test specimen mountings for sound absorption tests	15
Biblio	ography	21