

ISBN 0-626-18570-X

SANS 140-8:1997

Edition 1 and nat. amdt 1

ISO 140-8:1997

Edition 2

Any reference to SABS ISO 140-8 is deemed
to be a reference to this standard
(Government Notice No. 1373 of 8 November 2002)

SOUTH AFRICAN NATIONAL STANDARD

Acoustics — Measurement of sound insulation in buildings and of building elements

Part 8: Laboratory measurements of the reduction of transmitted impact noise by floor coverings on a heavyweight standard floor

This national standard is the identical implementation of ISO 140-8:1997 and is adopted with the permission of the International Organization for Standardization.

SANS 140-8:1997

Edition 1 and nat. amdt 1

ISO 140-8:1997

Edition 2

Table of changes

Change No.	Date	Scope
Nat. amdt 1	2006	Amended to change the designation from SABS to SANS, with no technical changes.

National foreword

This South African standard was approved by National Committee StanSA TC 76, *Acoustics, electro-acoustics and vibration*, in accordance with procedures of Standards South Africa, in compliance with annex 3 of the WTO/TBT agreement.

This part of SANS 140 was published in December 2006. This SANS edition is technically identical to the first SABS edition (SABS ISO 140-8:1997), with the addition of national amendment 1.

SANS 140-8:1997
INTERNATIONAL
STANDARD

ISO
140-8

Second edition
1997-10-15

**Acoustics — Measurement of sound
insulation in buildings and of building
elements —**

Part 8:

Laboratory measurements of the reduction of
transmitted impact noise by floor coverings on
a heavyweight standard floor

*Acoustique — Mesurage de l'isolement acoustique des immeubles et des
éléments de construction —*

*Partie 8: Mesurages en laboratoire de la réduction de la transmission du
bruit de choc par les revêtements de sol sur un plancher lourd normalisé*



Reference number
ISO 140-8:1997(E)

Contents

1	Scope	1
2	Normative references	1
3	Definitions	2
4	Equipment	3
5	Test arrangement.....	3
5.1	General arrangement.....	3
5.2	Details of test arrangement	3
5.2.1	Source room.....	3
5.2.2	Receiving room.....	4
5.2.3	Test floor.....	4
5.2.4	Condition of floor surface.....	4
5.3	Preparation and installation of test specimen	4
5.3.1	Classification.....	4
5.3.2	Installation	4
5.3.3	Size and number of specimen	5
5.4	Influence of temperature and humidity	5
6	Test procedure and evaluation.....	5
6.1	Generation of sound field	5
6.2	Measurement of impact sound pressure level.....	5
6.2.1	Microphone positions	5
6.2.2	Averaging time	6
6.3	Frequency range of measurements	6

© ISO 1997

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 the publisher.

International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet central@iso.ch
X.400 c=ch; a=400net; p=iso; o=isocs; s=central

Printed in Switzerland

6.4	Measurement of reverberation time and evaluation of the equivalent sound absorption area.....	6
6.5	Correction for background noise.....	7
6.6	Position of the tapping machine	7
6.6.1	Adjustment of the tapping machine	7
6.6.2	Materials of category I.....	7
6.6.3	Materials of category II and III	7
7	Precision.....	8
8	Expression of results	8
9	Test report	9
Annexes		
A	Requirements for the tapping machine	10
B	Form for the expression of results.....	12
C	Bibliography	14