

Acoustics and vibration — Laboratory measurement of vibro-acoustic transfer properties of resilient elements —

Part 2: Dynamic stiffness of elastic supports for translatory motion — Direct method

The European Standard EN ISO 10846-2:1998 has the status of a
British Standard

ICS 17.140.01

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW



Document Sharing Hub

National foreword

This British Standard is the English language version of EN ISO 10846-2:1998. It is identical with ISO 10846-2:1997. The UK participation in its preparation was entrusted by Technical Committee EH/1, Acoustics, to Subcommittee EH/1/4, Machinery noise, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

Cross-references

Attention is drawn to the fact that CEN and CENELEC standards normally include an annex which lists normative references to international publications with their corresponding European publications. The British Standards which implement these international or European publications may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue. A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN ISO title page, page 2, the ISO title page, pages ii to iv, pages 1 to 12, an inside back cover and a back cover. This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

This British Standard, having been prepared under the direction of the Health and Environment Sector Committee, was published under the authority of the Standards Committee and comes into effect on 15 February 1999

© BSI 05-1999

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
National foreword	Inside front cover
Foreword	2
Foreword	ii
Text of ISO 10846-2	1

English version

Acoustics and vibration — Laboratory measurement of
vibro-acoustic transfer properties of resilient elements —
Part 2: Dynamic stiffness of elastic supports for translatory
motion — Direct method

(ISO 10846-2:1997)

Acoustique et vibrations — Mesurage en
laboratoire des propriétés de transfert
vibro-acoustique des éléments élastiques —
Partie 2: Raideur dynamique en translation des
supports élastiques — Méthode directe
(ISO 10846-2:1997)

Akustik und Schwingungstechnik —
Laborverfahren zur Messung der
vibro-akustischen Transfereigenschaften
elastischer Elemente —
Teil 2: Bestimmung der
dynamischen Transfersteifigkeit elastischer
Stützelemente für translatorische
Schwingungen — Direktes Verfahren
(ISO 10846-2:1997)

This European Standard was approved by CEN on 8 November 1998.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

The text of the International Standard from Technical Committee ISO/TC 43 “*Acoustics*” and ISO/TC 108 “*Mechanical vibration and shock*” of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 211 “*Acoustics*”, the secretariat of which is held by DS.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 1999, and conflicting national standards shall be withdrawn at the latest by May 1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 10846-2:1997 has been approved by CEN as a European Standard without any modification.

NOTE Normative references to International Standards are listed in Annex ZA (normative).

Contents

	Page
Foreword	2
Introduction	1
1 Scope	1
2 Normative references	2
3 Definitions	2
4 Principle	3
5 Apparatus	4
6 Criteria for adequacy of the test arrangement	5
7 Test procedures	7
8 Evaluation of test results	9
9 Information to be recorded	10
10 Test report	11
Annex A (informative) Static load-deflection curve	13
Annex B (informative) Bibliography	13
Annex ZA (normative) Normative references to international publications with their relevant European publications	13
Figure 1 — Example of elastic supports with parallel flanges	1
Figure 2 — Example of laboratory test rig for measuring the dynamic transfer stiffness for normal translations	5
Figure 3 — Example of laboratory test rig for measuring the dynamic transfer stiffness for transverse translation	6
Figure 4 — Forces and acceleration on output side of the isolator	6
Figure 5 — Example of the format of the graph for presenting one-third-octave-band levels of the dynamic transfer stiffness with an example of scale values	11

INTERNATIONAL STANDARD

ISO
10846-2

First edition
1997-10-15

Acoustics and vibration — Laboratory measurement of vibro-acoustic transfer properties of resilient elements —

Part 2:

Dynamic stiffness of elastic supports for translatory motion — Direct method

*Acoustique et vibrations — Mesurage en laboratoire des propriétés
de transfert vibro-acoustique des éléments élastiques —*

*Partie 2: Raideur dynamique en translation des supports élastiques —
Méthode directe*

