

voornorm

NVN-ENV-ISO 8041/A1 (en)

Responsie van de mens op trillingen -
 Meetapparatuur
 (ISO 8041:1990/A1:1999, IDT)

Human response to vibration - Measuring instrumentation
 (ISO 8041:1990/A1:1999, IDT)

april 2001
 ICS 13.160

Als Nederlands wijzigingsblad is aanvaard:
 - ENV 28041:1993/A1:2001, IDT
 - ISO 8041:1990/A1:1999, IDT

Normcommissie 302 092 "Invloed van trillingen en schok op de mens"

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ICS 13.160

English version

Human response to vibration - Measuring instrumentation (ISO 8041:1990/Amd. 1:1999)

Réponse des individus aux vibrations - Appareillage de mesure (ISO 8041:1990/Amd. 1:1999)

Schwingungseinwirkung auf den Menschen - Meßeinrichtung (ISO 8041:1990/Amd. 1:1999)

This amendment A1 modifies the European Prestandard ENV 28041:1993; it was approved by CEN on 4 February 2001 as a prospective standard for provisional application.

The period of validity of this amendment is limited to the period of validity of the ENV (three years). After two years the members of CEN will be requested to submit their comments, particularly on the question whether the ENV can be converted into a European Standard.

CEN members are required to announce the existence of this ENV in the same way as for an EN and to make the ENV available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the ENV) until the final decision about the possible conversion of the ENV into an EN is reached.

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.



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Foreword

The text of this Amendment ENV 28041:1993/A1:2001 to the ENV 28041:1993 from Technical Committee ISO/TC 108 "Mechanical vibration and shock" of the International Organization for Standardization (ISO) has been taken over as an Amendment to the European Prestandard by Technical Committee CEN/TC 231 "Mechanical vibration and shock", the secretariat of which is held by DIN.

This amendment is a result of the resolution taken by ISO/TC 108/SC 3, September 1995, to revise ISO 8041:1990. In this first step, ISO 8041 is made compatible with the revised ISO 2631-1.

This amendment specifies instrumentation characteristics for measurement of whole-body vibration in accordance with redefined frequency weightings and alternative evaluation procedures introduced in ISO 2631-1:1997. Specification, calibration and verification tests for instrumentation have not been agreed for all evaluation procedures and these will be addressed in a future revision of ISO 8041.

The instrumentation specifications for measurement according to ISO 5349 (hand-arm) and ISO 2631-2 (whole-body combined) vibration are unchanged. However, data for these frequency weightings are now presented in the style used throughout this amendment.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this European Prestandard: 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 Amendment to the International Standard ISO 8041:1990/Amd. 1:1999 has been approved by CEN as an Amendment to the European Prestandard without any modification but the following corrections of printing errors:

- Table 1: read r_y instead of r_v
- Table 7: for $x = 23$, read tolerance $+2$ instead of ± 2
- Table 9: for $x = -5$, read tolerance $+2$ instead of ± 1
- Table 10: read W_i instead of W_j
- Figure C.7: read x-axis instead of z-axis.

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

Annex ZA
(normative)

Normative references to international publications with their relevant European publications

This European Prestandard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Prestandard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies (including amendments).

NOTE Where an International Publication has been modified by common modifications, indicated by (mod.), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
IEC 60651	1979	Sound level meters	EN 60651 Includes Amendment A1:1993	1994
IEC 61260	1995	Electroacoustics – Octave-band and fractional-octave-band filters	EN 61260	1996

Annex ZB
(normative)

Technical corrigendum 1

ISO 8041:1990/Cor. 1:1993 applies to this European Prestandard, as amended by ISO 8041:1990/Amd. 1:1999 (see annex D).

Voorbeeld
Preview

INTERNATIONAL STANDARD

ISO 8041

First edition
1990-07-15

AMENDMENT 1
1999-11-01

Human response to vibration — Measuring instrumentation

AMENDMENT 1

Réponse des individus aux vibrations — Appareillage de mesure

AMENDMENT 1

Preview



Reference number
ISO 8041:1990/Amd.1:1999(E)

ISO 8041:1990/Amd.1:1999(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Amendment 1 to ISO 8041:1990 was prepared by Technical Committee ISO/TC 108, *Mechanical vibration and shock*, Subcommittee SC 3, *Use and calibration of vibration and shock measuring instruments*.

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Human response to vibration — Measuring instrumentation

AMENDMENT 1

Page 1

2 Normative references

Add year of publication, 1990, to ISO 2041.

Change year of publication of ISO 2631-1 to 1997 and change the title to *Mechanical vibration and shock — Evaluation of human exposure to whole-body vibration — Part 1: General requirements*.

Change year of publication of ISO 5805 to 1997 and change title to *Mechanical vibration and shock — Human exposure — Vocabulary*.

Delete ISO 2631-3.

Replace the two lines concerning IEC 225 by:

IEC 61260:1995, *Electroacoustics — Octave-band and fractional-octave-band filters*

IEC 60651:1979, *Electroacoustics — Sound level meters*

IEC 60651:1979/Amd.1:1993, Amendment 1.

Page 2

3.1 weighted vibration

Replace first paragraph on page 2 by:

The acceleration is weighted in accordance with one of the eight frequency weightings listed in table 1 and specified in tables 4 to 11. Exact definitions are presented in annex B.

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