

**ANSI/ASA S2.72/Part 1 Amd. 1-2010 / ISO 2631-1 Amd. 1:2010**  
(an Amendment to ANSI S2.72-2002/Part 1 / ISO 2631-1:1997)

Reaffirmed by ANSI  
August 23, 2012

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## AMERICAN NATIONAL STANDARD

### **Mechanical vibration and shock – Evaluation of human exposure to whole-body vibration – Part 1: General requirements, AMENDMENT 1**

(a Nationally Adopted International Standard - AMENDMENT)

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ANSI/ASA S2.72/Part 1 Amd. 1-2010 /  
ISO 2631-1 Amd. 1:2010

Accredited Standards Committee S2, Mechanical Vibration and Shock

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Standards Secretariat  
Acoustical Society of America  
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**ANSI/ASA S2.72/Part 1 Amd. 1-2010 / ISO 2631-1 Amd. 1:2010**

**AMERICAN NATIONAL STANDARD**

**Mechanical vibration and shock — Evaluation  
of human exposure to whole-body  
vibration — Part 1: General requirements,  
AMENDMENT 1**

**A Nationally Adopted International Standard - Amendment**

**Secretariat:**

**Acoustical Society of America (ASA)**

**Approved on December 16, 2010 by:**

**American National Standards Institute, Inc.**

**Abstract**

This amendment to ANSI S2.72-2002/Part 1 / ISO 2631-1:1997 provides numerous updates and corrections throughout the document.

## AMERICAN NATIONAL STANDARDS ON ACOUSTICS

The Acoustical Society of America (ASA) provides the Secretariat for Accredited Standards Committees S1 on Acoustics, S2 on Mechanical Vibration and Shock, S3 on Bioacoustics, S3/SC 1 on Animal Bioacoustics, and S12 on Noise. These committees have wide representation from the technical community (manufacturers, consumers, trade associations, organizations with a general interest, and government representatives). The standards are published by the Acoustical Society of America as American National Standards after approval by their respective Standards Committees and the American National Standards Institute (ANSI).

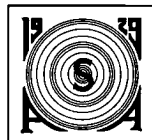
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## Foreword

[*This Foreword is for information only and is not a part of the American National Standard ANSI/ASA S2.72/Part 1 Amd. 1-2010 / ISO 2631-1 Amd. 1:2010 American National Standard Mechanical vibration and shock – Evaluation of human exposure to whole-body vibration – Part 1: General requirements – Amendment 1.*]

This standard comprises a part of a group of definitions, standards, and specifications for use in mechanical vibration and shock. It was developed and approved by Accredited Standards Committee S2 Mechanical Vibration and Shock, under its approved operating procedures. Those procedures have been accredited by the American National Standards Institute (ANSI). The Scope of Accredited Standards Committee S2 is as follows:

*Standards, specification, methods of measurement and test, and terminology in the field of mechanical vibration and shock, and condition monitoring and diagnostics of machines, including the effects of exposure to mechanical vibration and shock on humans, including those aspects which pertain to biological safety, tolerance and comfort.*

This standard is an amendment to ANSI S2.72-2002/Part 1 / ISO 2631-1:1997 (R2007).

This Standard is identical to International Standard ISO 2631-1 Amd. 1:2010, *Mechanical vibration and shock – Evaluation of human exposure to whole-body vibration – Part 1: General requirements, Amendment 1*, which was prepared by Technical Committee ISO/TC 108, Mechanical vibration, shock and condition monitoring, Subcommittee SC 4, Human exposure to mechanical vibration and shock. However, in conformance with ANSI and ISO rules, decimal points were substituted in place of the decimal commas used in ISO documents, and American English spelling is used in place of British English spelling.

The ANSI/ASA equivalents for ISO standards referenced herein include the following:

- ANSI/ASA S2.1/ISO 2041 is the identical national adoption of ISO 2041.
- ANSI/ASA S2.72/Part 4 / ISO 2631-4 is the identical national adoption of ISO 2631-4.

At the time this Standard was submitted to Accredited Standards Committee S2, Mechanical Vibration and Shock for approval, the membership was as follows:

A.T. Herfat, *Chair*  
C.F. Gaumont, *Vice-Chair*

S.B. Blaeser, *Secretary*

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**American Industrial Hygiene Association** ..... J.J. Earshen  
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<b>Infrared Training Center</b> .....	G.L. Orlove
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.....	J.E. Howell (Alt.)
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<b>Vibration Institute</b> .....	R.L. Eshleman D.J. Vendittis (Alt.)
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Individual Experts of Accredited Standards Committee S2, Mechanical Vibration and Shock, were:

A.J. Brammer  
D.D. Reynolds  
D.E. Wasserman

Working Group S2/WG 39, Human Exposure to Mechanical Vibration and Shock, which assisted Accredited Standards Committee S2, Mechanical Vibration and Shock, in the development of this standard, had the following membership.

D.D. Reynolds, Chair  
R. Dong, Vice Chair

C.R. Bass	E. Johannig	B.L. Price
M. Callison	B. Marquis	D.G. Roley
M. Cherniack	L. Mullinix	S.D. Smith
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N. Cooperrider	W. Pielemeier	D.E. Wasserman
L. DeVries	J.K. Pollard	J. Wasserman
T. Jetzer		D. Wilder

Suggestions for improvements to this standard will be welcomed. They should be sent to Accredited Standards Committee S2, Mechanical Vibration and Shock, in care of the Standards Secretariat of the Acoustical Society of America, 35 Pinelawn Road, Suite 114E, Melville, New York 11747-3177. Telephone: 631-390-0215; FAX: 631-390-0217; E-mail: [asastds@aip.org](mailto:asastds@aip.org).