

**DIN EN ISO 4871**

ICS 17.140.20

Supersedes  
DIN EN ISO 4871:1997-03**Acoustics –****Declaration and verification of noise emission values of machinery and equipment (ISO 4871:1996)****English version of DIN EN ISO 4871:2009-11****Akustik –****Angabe und Nachprüfung von Geräuschemissionswerten von Maschinen und Geräten (ISO 4871:1996)****Englische Fassung DIN EN ISO 4871:2009-11**

Document comprises 24 pages



## National foreword

This standard has been prepared by Technical Committee ISO/TC 43 “Acoustics”, Subcommittee SC 1 “Noise” (Secretariat: DS, Denmark) in collaboration with Technical Committee CEN/TC 211 “Acoustics” (Secretariat: DS, Denmark).

The responsible German body involved in its preparation was the *Normenausschuss Akustik, Lärminderung und Schwingungstechnik im DIN und VDI* (Acoustics, Noise Control and Vibration Engineering Standards Committee in DIN and VDI), Technical Committee NA 001-01-04 AA *Geräuschemission von Maschinen und Anlagen; Messung, Minderung, Datensammlung*.

Amendment of the European Machinery Directive has made it necessary to review Annex Z in terms of the essential requirements of the new European Machinery Directive, 2006/42/EC. The technical substance of the standard has not been changed.

The DIN Standards corresponding to the International Standards referred to in this document are as follows:

ISO 1996-1	DIN 45645-1	ISO 7779	DIN EN ISO 7779
ISO 3740	DIN EN ISO 3740	ISO 9614-1	DIN EN ISO 9614-1
ISO 3741	DIN EN ISO 3741 <sup>1)</sup>	ISO 9614-2	DIN EN ISO 9614-2
ISO 3743-1	DIN EN ISO 3743-1 <sup>1)</sup>	ISO 11200	DIN EN ISO 11200
ISO 3743-2	DIN EN ISO 3743-2	ISO 11201	DIN EN ISO 11201 <sup>1)</sup>
ISO 3744	DIN EN ISO 3744 <sup>1)</sup>	ISO 11202	DIN EN ISO 11202 <sup>1)</sup>
ISO 3745	DIN EN ISO 3745 <sup>1)</sup>	ISO 11203	DIN EN ISO 11203
ISO 3746	DIN EN ISO 3746 <sup>1)</sup>	ISO 11204	DIN EN ISO 11204 <sup>1)</sup>
ISO 3747	DIN EN ISO 3747 <sup>1)</sup>	IEC 60651	DIN EN 61672 (all parts)
ISO 7574-1	DIN EN 27574-1	IEC 60804	DIN EN 61672 (all parts)
ISO 7574-2	DIN EN 27574-2	IEC 60942	DIN EN 60942
ISO 7574-4	DIN EN 27574-4	IEC 61260	DIN EN 61260

The national standards are given in Annex NA “Bibliography”.

## Amendments

This standard differs from DIN EN ISO 4871:1997-03 as follows:

- a) Normative references and Bibliography have been updated.
- b) The standard has been editorially revised and harmonized with current rules of presentation and orthography.
- c) Annex ZA has been revised to show the relationship between this standard and the EU Machinery Directive 2006/42/EC.
- d) Annex ZB “Normative references to international publications with their relevant European publications” has been deleted.

## Previous editions

DIN 45649-1: 1989-03

DIN 45649-2: 1989-03

DIN EN ISO 4871: 1997-03

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1) Under revision.

## National Annex NA (informative)

### Bibliography

DIN 45645-1, *Determination of rating levels from measurement data — Part 1: Noise immission in the neighbourhood*

DIN EN 27574-1, *Acoustics — Statistical methods for determining and verifying stated noise emission values of machinery and equipment — Part 1: General considerations and definitions*

DIN EN 27574-2, *Acoustics — Statistical methods for determining and verifying stated noise emission values of machinery and equipment — Part 2: Methods for stated values for individual machines*

DIN EN 27574-4, *Acoustics — Statistical methods for determining and verifying stated noise emission values of machinery and equipment — Part 4: Methods for stated values for batches of machines*

DIN EN 60942, *Electroacoustics — Sound calibrators*

DIN EN 61260, *Electroacoustics — Octave-band and fractional-octave-band filters*

DIN EN 61672-1, *Electroacoustics — Sound level meters — Part 1: Specifications*

DIN EN 61672-2, *Electroacoustics — Sound level meters — Part 2: Pattern evaluation tests*

DIN EN 61672-3, *Electroacoustics — Sound level meters — Part 3: Periodic tests*

DIN EN ISO 3740, *Acoustics — Determination of sound power levels of noise sources — Guidelines for the use of basic standards*

DIN EN ISO 3741, *Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Precision methods for reverberation test rooms*

DIN EN ISO 3743-1, *Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Engineering method for small, movable sources in reverberant fields — Part 1: Comparison method for hard-walled test rooms*

DIN EN ISO 3743-2, *Acoustics — Determination of sound power levels of noise sources using sound pressure — Engineering methods for small, movable sources in reverberant fields — Part 2: Methods for special reverberation test rooms*

DIN EN ISO 3744, *Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Engineering method for an essentially free field over a reflecting plane*

DIN EN ISO 3745, *Acoustics — Determination of sound power levels of noise sources using sound pressure — Precision methods for anechoic and hemi-anechoic rooms*

DIN EN ISO 3746, *Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Survey method using an enveloping measurement surface over a reflecting plane*

DIN EN ISO 3747, *Acoustics — Determination of sound power levels of noise sources using sound pressure — Comparison method for use in situ*

DIN EN ISO 7779, *Acoustics — Measurement of airborne noise emitted by information technology and telecommunications equipment*

DIN EN ISO 9614-1, *Acoustics — Determination of sound power levels of noise sources using sound intensity — Part 1: Measurement at discrete points*

DIN EN ISO 9614-2, *Acoustics — Determination of sound power levels of noise sources using sound intensity — Part 2: Measurement by scanning*

DIN EN ISO 11200, *Acoustics — Noise emitted by machinery and equipment — Guidelines for the use of basic standards for the determination of emission sound pressure levels at a work station and at other specified positions*

DIN EN ISO 11201, *Acoustics — Noise emitted by machinery and equipment — Measurement of emission sound pressure levels at a work station and at other specified positions; engineering method in an essentially free field over a reflecting plane*

DIN EN ISO 11202, *Acoustics — Noise emitted by machinery and equipment — Measurement of emission sound pressure levels at a work station and at other specified positions — Survey method in situ*

DIN EN ISO 11203, *Acoustics — Noise emitted by machinery and equipment — Determination of emission sound pressure levels at a work station and at other specified positions from the sound power level*

DIN EN ISO 11204, *Acoustics — Noise emitted by machinery and equipment — Measurement of emission sound pressure levels at a work station and at other specified positions — Method requiring environmental corrections*