
**Acoustics — Laboratory tests on noise
emission from appliances and equipment
used in water supply installations —**

Part 4:
Mounting and operating conditions for special
appliances

*Acoustique — Mesurage en laboratoire du bruit émis par les robinetteries et
les équipements hydrauliques utilisés dans les installations de distribution
d'eau —*

*Partie 4: Conditions de montage et de fonctionnement des équipements
spéciaux*



Foreword

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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.

International Standard ISO 3822-4 was prepared by the European Committee for Standardization (CEN) in collaboration with ISO Technical Committee TC 43, *Acoustics*, Subcommittee SC 4, *Building acoustics*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 3822-4:1985), which has been technically revised.

ISO 3822 consists of the following parts, under the general title *Acoustics — Laboratory tests on noise emission from appliances and equipment used in water supply installations*:

- *Part 1: Method of measurement*
- *Part 2: Mounting and operating conditions for draw-off taps and mixing valves*
- *Part 3: Mounting and operating conditions for in-line valves and appliances*
- *Part 4: Mounting and operating conditions for special appliances*

Annexes A, B, C and D form an integral part of this part of ISO 3822. Annex E is for information only.

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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

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Foreword

The text of EN ISO 3822-4 :1997 has been prepared by Technical Committee CEN/TC 126 "Acoustic properties of building components and of buildings" the secretariat of which is held by AFNOR in collaboration with the Technical Committee ISO/TC 43 "Acoustics".

The content of this part of the European Standard EN ISO 3822 is not identical with the International Standard ISO 3822-4:1985 "Acoustics - Laboratory tests on noise emission from appliances and equipment used in water supply installations - Part 4 : Mounting and operating conditions for special appliances".

Working group CEN/TC 126/WG 3 was instructed, in May 88, to examine and take into account the comments on ISO 3822-4, following the primary questionnaire.

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 July 1997, and conflicting national standards shall be withdrawn at the latest by July 1997.

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

0 Introduction

The method of measurement for laboratory tests on noise emission from appliances and equipment used in water supply installations is specified in EN ISO 3822-1.

The mounting and operating conditions for draw-off taps and mixing valves are described in EN ISO 3822-2 whereas EN ISO 3822-3 describes the mounting and operating conditions for in-line valves and appliances.

This part of EN ISO 3822 describes the mounting and operating conditions for laboratory tests of appliances of such construction that they cannot easily be considered as draw-off or in-line appliances, e.g. water heaters, shower heads, etc.

1 Scope

This part of EN ISO 3822 specifies the mounting and operating conditions to be used for a number of appliances which cannot be regarded as draw-off or in-line valves, when measuring the noise emission resulting from water flow.

2 Normative references

This European Standard 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 Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

ISO 7/1	Pipe threads where pressure-tight joints are made on the threads - Part 1: Designation, dimensions and tolerances.
ISO 48	Vulcanised rubbers - Determination of hardness (Hardness between 30 and 85 IRHD).
ISO 49	Malleable cast iron fittings threaded to ISO 7/1.
ISO 228/1	Pipe threads where pressure-tight joints are not made on the threads - Part 1: Designation, dimensions and tolerances.
ISO 2768	Permissible machining variations in dimensions without tolerance indication.
ISO 6708	Pipe components - Definition of nominal size.
EN ISO 3822-1	Acoustics - Laboratory tests on noise emission from appliances and equipment used in water supply installations - Part 1: Method of measurement.
EN ISO 3822-2	Acoustics - Laboratory tests on noise emission from appliances and equipment used in water supply installations - Part 2: Mounting and operating conditions for draw-off taps and mixing valves.
EN ISO 3822-3	Acoustics - Laboratory tests on noise emission from appliances and equipment used in water supply installations - Part 3: Mounting and operating conditions for in-line valves and appliances.

3 Mounting and operating conditions

3.1 Connection of appliances

The test pipe shall end with a galvanised union (hot-dip zinc coated), taper seat size 1, U11 complying with ISO 49.

Special appliances, including connecting pipe, shall be connected to the union using if necessary a combination of galvanised (hot-dip zinc coated) fittings complying with ISO 49.