

**Non-destructive testing - Ultrasonic testing -
Specification for calibration block No. 1 (ISO 2400:2012)**

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NATIONAL FOREWORD

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Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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English Version

Non-destructive testing - Ultrasonic testing - Specification for
calibration block No. 1 (ISO 2400:2012)

Essais non destructifs - Contrôle par ultrasons -
Spécifications relatives au bloc d'étalonnage n° 1 (ISO
2400:2012)

Zerstörungsfreie Prüfung - Ultraschallprüfung -
Beschreibung des Kalibrierkörpers Nr 1 (ISO 2400:2012)

This European Standard was approved by CEN on 14 September 2012.

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COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (EN ISO 2400:2012) has been prepared by Technical Committee CEN/TC 138 "Non-destructive testing", the secretariat of which is held by AFNOR, in collaboration with Technical Committee ISO/TC 135 "Non-destructive testing".

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of an identical text or by endorsement, at the latest by mars 2013, and conflicting national standards shall be withdrawn at the latest by mars 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Non-destructive testing — Ultrasonic testing — Specification for calibration block No. 1

1 Scope

This International Standard specifies requirements for the dimensions, material and manufacture of a steel block for calibrating ultrasonic test equipment used in manual testing.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 5577, *Non-destructive testing — Ultrasonic inspection — Vocabulary*

EN 1330-4, *Non-destructive testing — Terminology — Part 4: Terms used in ultrasonic testing*

EN 10025-2, *Hot rolled products of structural steels — Part 2: Technical delivery conditions for non-alloy structural steels*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5577 and EN 1330-4 apply.

4 Manufacture

4.1 Steel

Blocks shall be manufactured from steel grade S355J0, specified in EN 10025-2, or from steel of an equivalent grade.

4.2 Dimensions

The dimensions of calibration block No. 1 shall be as shown in Figure 1.

NOTE This International Standard does not include any requirement for a plastic insert.

4.3 Machining, heat treatment and surface finish

Blocks shall be rough-machined to a dimension of 320 mm × 120 mm × 30 mm before heat treatment which shall consist of:

- austenitizing at 920 °C for 30 min;
- rapid cooling (quenching) in water;
- tempering by heating to 650 °C for 3 h;
- cooling in still air.

All external surfaces shall be machined to an R_a value not greater than 0,8 µm.