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Oförstörande provning – Ultraljudsprovning – Specifikation för kalibreringsblock Nr 2 (ISO 7963:2006)

Non-destructive testing – Ultrasonic testing – Specification for calibration block No. 2 (ISO 7963:2006)



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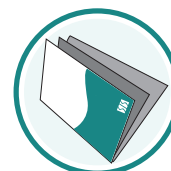
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Denna standard ersätter SS-EN 27963, utgåva 1.

The European Standard EN ISO 7963:2010 has the status of a Swedish Standard. This document contains the official version of EN ISO 7963:2010.

This standard supersedes the Swedish Standard SS-EN 27963, edition 1.

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Denna standard är framtagen av kommittén för Oförstörande provning, SIS/TK 125.

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 7963

September 2010

ICS 25.160.40

Supersedes EN 27963:1992

English Version

Non-destructive testing - Ultrasonic testing - Specification for calibration block No. 2 (ISO 7963:2006)

Essais non destructifs - Contrôle par ultrasons -
Spécifications relatives au bloc d'étalonnage n° 2 (ISO
7963:2006)

Zerstörungsfreie Prüfung - Ultraschallprüfung -
Beschreibung des Kalibrierkörpers Nr 2 (ISO 7963:2006)

This European Standard was approved by CEN on 26 August 2010.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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Foreword

The text of ISO 7963:2006 has been prepared by Technical Committee ISO/TC 135 “Non-destructive testing” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 7963:2010 by Technical Committee CEN/TC 138 “Non-destructive testing” the secretariat of which is held by AFNOR.

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 March 2011, and conflicting national standards shall be withdrawn at the latest by March 2011.

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.

This document supersedes EN 27963:1992.

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Endorsement notice

The text of ISO 7963:2006 has been approved by CEN as a EN ISO 7963:2010 without any modification.

Introduction

Calibration block No. 2 differs in size and shape from that described in ISO 2400.

Calibration block No. 2 is very much smaller and lighter, and its geometry is much simpler.

Calibration block No. 2 does not offer as much scope as the larger block; in particular it is not meant to check an ultrasonic flaw detector completely.

However, calibration block No. 2 makes it possible, during practical testing, to check simply, from time to time, the setting of the time base and the sensitivity of the ultrasonic equipment. Moreover, it is suited to checking the beam angle and the probe index of miniature angle-beam probes.

NOTE Calibration block No. 1 is currently specified in EN 12223.

Requests for official interpretations of any aspect of this International Standard should be directed to the Secretariat of ISO/TC 44/SC 5 via your national standards body, a complete listing which can be found at www.iso.org.

Non-destructive testing — Ultrasonic testing — Specification for calibration block No. 2

1 Scope

This International Standard specifies the dimensions, material, manufacture and methods of use for calibration block No. 2 for calibrating and checking ultrasonic testing equipment.

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 4287, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Terms, definitions and surface texture parameters*

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

EN 10025-1, *Hot rolled products of structural steels — Part 1: General technical delivery conditions*

3 Terms and definitions

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

4 Dimensions

The dimensions of the block are given in Figure 1.

The tolerances are $\pm 0,1$ mm, except on the length of the engraved scale where it is $\pm 0,5$ mm.

Average surface roughness values, R_a , are defined in accordance with ISO 4287.

The thickness of the block can be greater than 12,5 mm (see A.1).

5 Material

The calibration block shall be made of steel of grade S355JO in accordance with EN 10025-1 or equivalent.