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DETONEERNÖÖRID JA SÜÜTENÖÖRID. OSA 4:  
DETONEERNÖÖRIDE LÖÖGITUNDLIKKUSE  
MÄÄRAMINE

Explosives for civil uses - Detonating cords and safety fuses - Part 4: Verification of insensitiveness to impact of detonating cords

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 13630-4:2025 sisaldab Euroopa standardi EN 13630-4:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 01.10.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 13630-4:2025 consists of the English text of the European standard EN 13630-4:2025.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 01.10.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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EUROPEAN STANDARD

**EN 13630-4**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2025

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Supersedes EN 13630-4:2002

English Version

## Explosives for civil uses - Detonating cords and safety fuses - Part 4: Verification of insensitiveness to impact of detonating cords

Explosifs à usage civil - Cordeaux détonants et mèches de sûreté - Partie 4 : Vérification de l'insensibilité à l'impact des cordeaux détonants

Explosivstoffe für zivile Zwecke - Sprengschnüre und Sicherheitsanzündschnüre - Teil 4: Überprüfung der Schlagunempfindlichkeit von Sprengschnüren

This European Standard was approved by CEN on 15 September 2025.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## European foreword

This document (EN 13630-4:2025) has been prepared by Technical Committee CEN/TC 321 “Explosives for civil uses”, the secretariat of which is held by UNE.

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 April 2026, and conflicting national standards shall be withdrawn at the latest by April 2026.

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

This document supersedes EN 13630-4:2002.

EN 13631-4:2025 includes the following significant technical changes with respect to EN 13631-4:2002:

- a) the document title has been changed from “Part 4: Determination of sensitiveness to impact of detonating cords” to “Part 4: Verification of insensitiveness to impact of detonating cords”;
- b) the Scope has been revised to clarify the explosives covered and not covered in the document;
- c) the normative references have been updated;
- d) the terminology entry 3.1 has been removed;
- e) the Clause 4 “Principle” has been added;
- f) the apparatus has been updated and extended – the illustrations of the fall-hammer from former Annex C have been moved here;
- g) the Clause “Test pieces” is now called “Preparation of test sample” and has been revised and extended;
- h) the Clause “Procedure” has been updated;
- i) the Clause 8 “Expression of results” has been added;
- j) the Clause “Test report” does no longer require conformity with EN ISO/IEC 17025 and the information to be provided has been updated and extended;
- k) the former Annexes A “Range of applicability of the test method”, B “Information on special types of use for detonating cords” and C “Illustrations of the BAM fall-hammer” have been removed;
- l) the Annex ZA has been updated;
- m) the Bibliography has been added and lists, e.g. EN ISO/IEC 17025:2017.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

A list of all parts in the EN 13630 series, published under the general title *Explosives for civil uses — Detonating cords and safety fuses*, can be found on the CEN website.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

## 1 Scope

This document specifies a test method for the verification of the insensitiveness to impact of detonating cords.

This document does not apply to safety fuses.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN 13857-1:2025, *Explosives for civil uses — Part 1: Vocabulary*

EN ISO 4957:2018, *Tool steels (ISO 4957:2018)*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13857-1:2025 apply.

## 4 Principle

The insensitiveness to impact of detonating cord is of importance with regard of reducing possible risks from an inadvertent initiation during transport and handling.

For the verification of the insensitiveness to impact of detonating cords, test pieces are subjected to an impact energy of 10 J obtained by a weight dropped from a height.

## 5 Apparatus

**5.1 Drop hammer** consisting of the following parts as shown in Figure 1.

EXAMPLE The BAM fall-hammer<sup>1)</sup> is a widely used example for a drop hammer.

**5.1.1 Steel block** with a resistance and a mass to withstand the impact. The steel block may consist of a single block or be divided in two blocks welded together so that the upper block lies centrally on the lower block.

EXAMPLE A steel block made from two blocks with the block on top having a height of 200 mm, a length of 260 mm and a width of 240 mm. The lower block having a height of 60 mm, a length and a width of 450 mm.

**5.1.2 Column** made from a seamless drawn steel tube that is connected to the steel block (5.1.1) via a support being bolted to one side of the steel block.

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<sup>1)</sup> BAM fall-hammer is an example of a suitable product available commercially. This information is given for the convenience of users of this document and does not constitute an endorsement by CEN of this product.