SLOVENSKI STANDARD
SIST EN 14450:2005

01-maj-2005

Varnostne shranjevalne enote - Klasifikacija in metode preskušanja protivlomne odpornosti - Varnostne omare

Secure storage units - Requirements, classification and methods of test for resistance to burglary - Secure safe cabinets

Wertbehältnisse - Anforderungen, Klassifizierung und Methoden zur Prüfung des Widerstandes gegen Einbruchdiebstahl - Sicherheitsschränke

Unités de stockage en lieu sur - Exigences, classification et méthodes d'essai de résistance a l'effraction - Coffres domestiques

Ta slovenski standard je istoveten z: **EN 14450:2005**

ICS:

13.310	Varstvo pred kriminalom	Protection against crime
35.220.99	Druge naprave za shranjevanje podatkov	Other data storage devices

SIST EN 14450:2005 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 14450

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English version

Secure storage units - Requirements, classification and methods of test for resistance to burglary - Secure safe cabinets

Unités de stockage en lieux sûrs - Prescriptions, classification et méthodes de test pour la resistance à l'effraction - Compartiment de sécurité

Wertbehältnisse - Anforderungen, Klassifizierung und Methoden zur Prüfung des Widerstandes gegen Einbruchdiebstahl - Sicherheitsschränke

This European Standard was approved by CEN on 23 September 2004.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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

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Contents

Foreword

This document (EN 14450:2004) has been prepared by the Technical Committee CEN /TC 263 "Secure storage of cash, valuables and data media", the secretariat of which is held by BSI.

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 September 2005, and conflicting national standards shall be withdrawn at the latest by September 2005.

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

Introduction

Tests are made and the results used to classify resistance to burglary. The resulting resistance classification may be used for designing security systems with the provision that, depending on the criminal, the conditions at the place of the crime and the availability of tools, considerably longer times are likely to occur in real burglary attacks than in a test.

There is no requirement under this standard to test for resistance to fraudulent access.

The standard covers products meant for purposes where the security resistance required is less than that of EN 1143-1.

Manual tests are included whose results and repeatability is dependent on the skill of the testing team.

1 Scope

This document establishes the basis for testing and classifying secure safe cabinets.

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.

EN 1300, *Secure storage units — Classification for high security locks according to their resistance to unauthorised opening*

3 Terms and definitions

For the purpose of this document, the following terms and definitions apply.

3.1
secure safe cabinet
storage unit which protects its content against burglary and when closed has at least one internal side ≤ 1 m length. The interior of a secure safe cabinet is accessed through a lockable door or lid

3.2
free-standing unit
secure safe cabinet whose protection against burglary depends only upon the materials and construction of its primary manufacture and not upon materials added or attached during installation

3.3
wall unit
secure safe cabinet for installation into a wall and whose protection against burglary is partly dependent upon the wall(s) and the materials added during installation

3.4
floor unit
secure safe cabinet for installation into a floor and whose protection against burglary is partly dependent upon materials added during installation

3.5
working time
time spent during testing during which one or more tools are used to create a change in the test specimen

3.6
gross time
time from when a test is started to when the test is complete or abandoned

3.7
encasement
material added at installation to protect and anchor wall units and floor units

3.8
tool point, TP
numerical value assigned to test tool

3.9
security units, SU
numerical value expressing resistance against burglary attack

4 Classification and requirements

4.1 Classification

Secure safe cabinets are classified to a resistance level according to Table 1.

Table 1 — Requirements for classification of security safe cabinets

	S1	S2
Minimum resistance for access to the interior	2,00 SU	5,00 SU
Limit to number and type of tools used for testing	40 TP	60 TP
Minimum strength per anchoring hole	20 kN	30 kN
Minimum locking	One lock to EN 1300	One lock to EN 1300

Gross attack time is limited as described in 7.2.4b.

4.2 Requirements

4.2.1 There shall be no holes through the protection material other than those for locks, cables or anchoring. One cable hole is allowed, this shall not exceed 100 mm^2.

4.2.2 A free-standing unit with a mass less than 1000 kg shall have at least two holes by which it can be anchored. These holes shall both be in the face through which it is to be anchored. The anchoring assembly for each anchoring hole shall sustain the minimum anchoring strength given in Table 1.

4.2.3 Secure safe cabinets shall be provided with operating and installation instructions, including instructions in respect of the locks and anchoring.

5 Technical Documentation

5.1 General

The technical documentation shall contain the following information:

5.2 Date of issue and the name of the manufacturer (or the name and status of the applicant requesting testing) shall be on each page;

5.3 Statement of the type and model number of secure safe cabinet, e.g. free-standing unit, wall unit or floor unit;.

5.4 Drawings of the test specimen and documents giving the following:

a) weight, outside and inside dimensions, and the manufacturing tolerances of the dimensions;

b) horizontal and vertical cross-sections;

c) the quantity, layout and features of locks, boltwork and relocking devices;

d) the quantity, pitch and position of door bolts, their dimensions (e.g. cross-section), throw and engagement and their type (e.g. moving or fixed);

e) the location and design of any local areas of special protection material;

f) purpose, position and dimensions of any holes which pass through the protection material with details of any associated special protection;

g) details of optional features, e.g. time locking and time delay locking;

h) specification of the materials of construction.

5.5 Operating and installation instructions, including instructions in respect of the locks and anchoring

5.6 In addition to 5.2, 5.3 and 5.4, for wall units and floor units the following information shall be provided:

a) details of the recommended procedure for installation;

b) drawing showing the recommended plane of door or lid in relation to the surface of the wall or floor into the unit is to be installed;

c) details of encasement materials (see 3.7);

d) recommendation for the proportion of the body to be encased and the thickness of the encasement;

identification of any areas of the body which are not protected by material added at installation;**5.7** List of all locks that may be fitted, giving the manufacturer and model number;

5.8 Details of any materials or device(s) intended to generate gas, smoke, soot, etc., in the event of physical attack or which could generate harmful substances during testing.

6 Test specimen

6.1 The test specimen shall be a complete secure safe cabinet. Optional features which could decrease resistance time shall be present in the test specimen. Optional features which could increase resistance time shall either not be present or shall be made inoperative.

6.2 Wall units and floor units shall be encased according to the recommended procedure for installation (see 5.6.), using a supporting angle steel frame as illustrated in Figure A.1.

6.3 Cable entrance specified in the documentation shall be present in the test specimen.

6.4 When a range of different size secure safe cabinets is submitted for testing, the testing laboratory shall specify which sizes are to be tested. More than one size may be tested.

7 Tool attack test

7.1 Tool attacks

7.1.1 Tool list

Table 2 — Permitted tools, coefficients (SU/min) and tool points (TP)

Tool	Maximum overall size/amount/power	Coefficient SU/min	Tool Points TP
Non-tools			
String, wire, adhesive tape	5 m	1	0
Chalk, marking pens	2 pieces	1	0
Measuring tape	3 m	1	0
Steel rule	300 mm	1	0
Self tapping screws	12 mm	1	0
Electric torch	1 torch	1	0
Hammer	0,2 kg 300 mm length	1	0
Small tools			
Wedges made fof wood or plastic	200 mm by 80 mm by 40 mm	1	10
Cold chisel, flat or pointed	30 mm blade width, 250 mm length	1	10
Wood chisel	40 mm blade width, 350 mm length	1	10
Screwdriver	10 mm bit, 260 mm length	1	10
Pliers	200 mm length	1	10
Pinchers	240 mm length	1	10
Spanner	180 mm length	1	10
Allen key	120 mm length	1	10
Crowbar	300 mm length	1	10
Hacksaw	330 mm blade length	1	10
Punch	250 mm length	1	10
Knife	120 mm length	1	10
Large tools			
Hammer	1,5 kg head 400 mm length	2	10
Crowbar	710 mm length	2	30
Angle grinder	≤ 800 W input power. wheel diameter 125 mm (1,6mm ≤ thickness ≤ 2,5 mm)	2	30
Screwdriver	16 mm bit, 375 mm length	2	30
Electric drill without percussion action	≤ 500 W input power, HSS drill bit, diameter 10 mm 250 mm length	2	30
Additional tool accessories			
Additional hacksaw blade	330 mm blade length	0	10
Additional HSS drill bit	10 mm diameter, 250 mm length	0	10
Additional abrasive wheel or disc (no diamond disc)	125 mm diameter (1.6 mm ≤ thickness ≤ 2,5 mm)	0	10