

**SLOVENSKI STANDARD**  
**SIST EN 1143-1:1998/A1:2002**  
**01-september-2002**

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**Varnostne shranjevalne enote - Zahteve, klasifikacija in metode preskušanja protivlomne odpornosti - 1. del: Blagajne, vrata trezorskih prostorov in trezorski prostori - Dodatek A1**

Secure storage units - Requirements, classification and methods of tests for resistance to burglary - Part 1: Safes, strongroom doors and strongrooms

Wertbehältnisse - Anforderungen, Klassifizierung und Methoden zur Prüfung des Widerstandes gegen Einbruchdiebstahl - Teil 1: Geldschränke, Tresorraumtüren und Tresorräume

Unités de stockage en lieux sûrs - Prescriptions, classification et méthodes de test pour la résistance a l'effraction - Partie 1: Coffres-forts, portes fortes et chambres fortes

**Ta slovenski standard je istoveten z: EN 1143-1:1997/A1:2001**

**ICS:**

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

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN 1143-1:1997/A1

December 2001

ICS 13.310

English version

Secure storage units - Requirements, classification and methods  
of tests for resistance to burglary - Part 1: Safes, strongroom  
doors and strongrooms

Unités de stockage en lieux sûrs - Prescriptions,  
classification et méthodes de test pour la résistance à  
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Wertbehältnisse - Anforderungen, Klassifizierung und  
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Einbruchdiebstahl - Teil 1: Geldschränke, Tresorraumtüren  
und Tresorräume

This amendment A1 modifies the European Standard EN 1143-1:1997; it was approved by CEN on 8 November 2001.

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

This amendment 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

**EN 1143-1:1997/A1:2001 (E)****Foreword**

This Amendment EN 1143-1:1997/A1:2001 to EN 1143-1:1997 has been prepared by Technical Committee CEN/TC 263 "Secure storage of cash, valuables and data media", the secretariat of which is held by BSI.

This Amendment to the European Standard EN 1143-1:1997 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2002, and conflicting national standards shall be withdrawn at the latest by June 2002.

This amendment has been prepared by working group 1 of CEN/TC 263 "Secure storage of cash, valuables and data media", to add requirements for safes for currency exchange machines, teller assist machines, currency recycling machines, and automated teller machines (ATM safes). It also includes a change to the normative references and changes to permit accessories in strongrooms and strongroom doors (4.2.1), to alter the length and BV values for diamond core drills (Table A.12, column 'D or S') and to add new general requirements (4.2.3, 4.2.4 and 4.2.5).

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

**1 Scope**

after "(floor and wall)", add "ATM safes and ATM bases",

**2 Normative references**

Delete prEN 1300 and replace with ENV 1300:1999

**3 Definitions**

Add the following new terms and definitions

**3.19**

**ATM** (automatic teller machine)

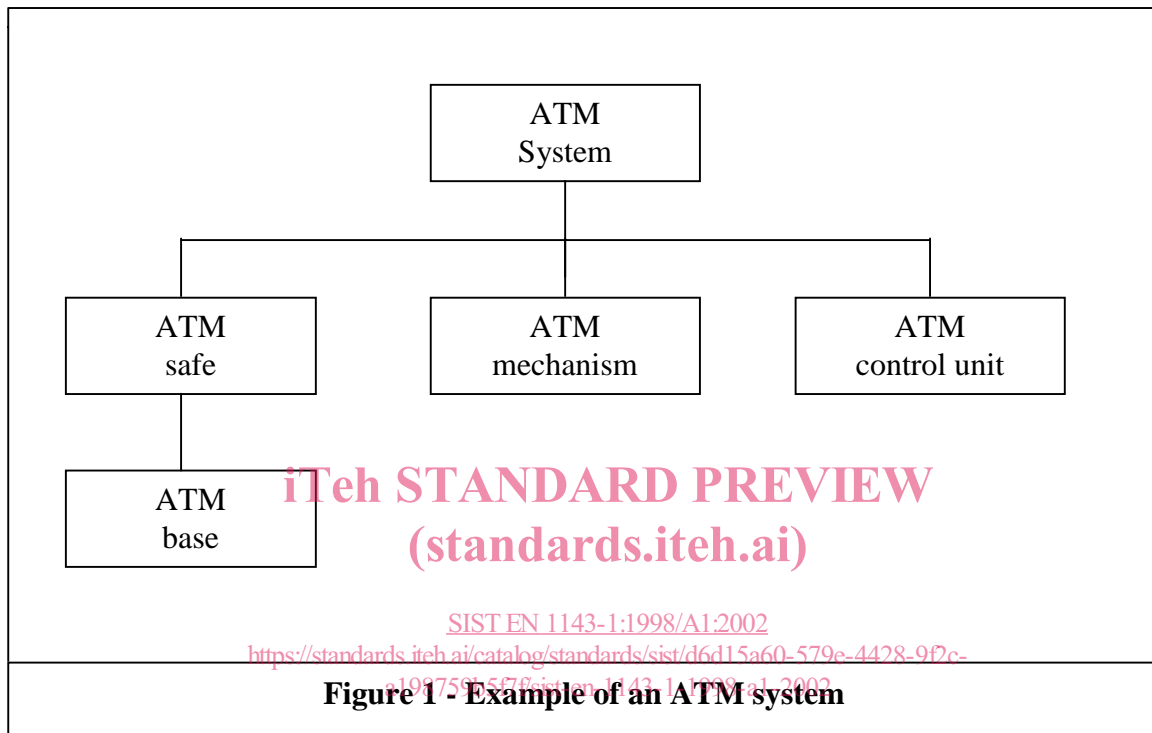
means for holding and automatically issuing cash and/or valuables and which may also accept and store deposits of cash and/or valuables

**NOTE** For the purpose of this standard, automated teller machines, currency exchange machines, currency recycling machines and machines such as teller assist machines which are used only by authorised employees of financial institutions, are all types of ATM.

### 3.20 ATM system

assembly of sub-units which provides an ATM function and affords security to cash and/or valuables stored within the ATM safe

NOTE An example of an ATM system is shown in Figure 1.



NOTE Of the sub-units shown in Figure 1, the ATM mechanism and the ATM control unit are not tested according to this standard.

### 3.21 ATM safe

safe forming part of an ATM system

### 3.22 ATM base

any integral part of an ATM system located between the ATM safe and the surface to which it is to be anchored

### 3.23 internal space

that part of the interior of an ATM safe which is bounded by the inside surfaces of the ATM safe body and the boltwork cover plate(s)

**EN 1143-1:1997/A1:2001 (E)****4 Classification and requirements**

Delete the text of the clause completely and replace with:

**4.1 Classification**

Safes are classified to a resistance grade according to Table 1. Strongroom doors and strongrooms (with or without door) are classified to a resistance grade according to Table 2. ATM safes are classified to a resistance grade according to Table 3. All products shall meet general requirements (4.2) and products with EX designation shall meet additional requirements (4.3).

**4.2 General requirements****4.2.1 Safes, strongroom doors and strongrooms**

There shall be no holes through the protection material other than those necessary for locks, cables or anchoring, or for the fitting of accessories to strongroom doors and strongrooms.

Cable openings in safes, strongroom doors and strongrooms (with or without a door) shall not exceed 100 mm<sup>2</sup>. Unused cable entry openings shall be obstructed or plugged by the manufacturer by means which cannot be removed from the outside without leaving visible traces.

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Free-standing safes with a mass of less than 1000 kg shall have at least one hole by which they can be anchored. The anchoring assembly for each anchoring hole shall sustain the force given in Table 1.

**4.2.2 ATM safes**

ATM safes shall have means for plugging unused openings. These means shall be impossible to remove from the outside without leaving visible traces.

NOTE 1 Openings through the protection material for ATM functioning are permitted in ATM safes.

NOTE 2 Cable entry openings in ATM safes may be larger than 100 mm<sup>2</sup>.

ATM safes shall have a fixing capability by which they can be anchored and which shall sustain the required force given in Table 3.

**4.2.3 Boltwork cover plate**

Safes, ATM safes and strongroom doors shall have an internal boltwork cover plate which prevents unauthorized viewing of the locks and boltwork, and access to them, when the door is open. Boltwork cover plates shall be secured so that they cannot be opened or removed without leaving visible traces.

#### 4.2.4 Cable hole

Safes, strongroom doors and strongrooms of grade III and higher shall either have a hole for a cable or a preparation enabling a connection to be made to an alarm system after the secure storage unit has been installed.

#### 4.2.5 User instructions

Safes, strongrooms and ATM safes shall be provided with operating and maintenance instructions, including instructions in respect of the locks. Safes and ATM safes shall have instructions for anchoring. For strongroom doors and strongrooms, installation instructions shall be provided.

### 4.3 Additional requirements for EX designation

Delete the text of the subclause completely and replace with:

#### 4.3.1 Safes, strongroom doors and strongrooms

4.3.1.1 When tested in accordance with clause 9, safes designated 'EX' shall achieve the minimum post-detonation resistance values given in Table 1.

When tested in accordance with clause 9, strongroom doors and strongrooms (with or without doors) designated 'EX' shall achieve the minimum post-detonation resistance values given in Table 2.

4.3.1.2 When tested in accordance with 9.2, the cable-entry openings of safes, strongroom doors and strongrooms (with or without doors) shall not permit the entry of explosives (e.g. fuses or charges).

#### 4.3.2 ATM safes

When tested in accordance with clause 9, ATM safes designated 'EX' shall achieve the minimum post-detonation resistance values given in Table 3.

**Table 1** Delete the title and replace with:

#### **Table 1 - Minimum requirements for classification of safes (excluding ATM safes) into resistance grades.**

In Table 1 change the heading of sub-column 6 from "Class according to EN 1300" to "Class according to ENV1300:1999"

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Replace Table 2 by new Table 2

**Table 2 - Minimum requirements for classification of strongroom doors and strongroom into resistance grades**

Resistance grade	Tool attack test (clause 7) Resistance value for complete access RU	Locks <sup>a</sup>		Additional requirements for optional EX-designation (clause 9) Post-detonation resistance value RU
		Quantity	Class according to ENV1300:1999	
0	30	1	A	b
I	50	1	A	b
II	80	1	A	4
III	120	1	B	6
IV	180	2	B	9
V	270	2	B	14
VI	400	2	C	20
VII	600	2	C	30
VIII	825	2	C	41
IX	1050	2	C	53
X	1350	2	C	68
XI	2000	3 2	C or D	100
XII	3000	3 2	C or D	150
XIII	4500	2	D	225

<sup>a</sup> Not applicable for classification of strongrooms with no door<sup>b</sup> EX-designation is not possible for grades 0 and I



Change Table number 3 to Table 4, and add new Table 3.

**Table 3 - Minimum requirements for classification of ATM safes into resistance grades**

Resistance grade		Tool attack test (clause 7) Resistance value for:			Anchoring strength, (clause 8.2)  Required force kN	Tool attack test on fixing attachment (clause 7)  Resistance value RU	Locks		Additional Requirements for EX designation (clause 9) <sup>a</sup>  Post-detonation resistance value RU
		partial access		complete access RU			Quantity	Class  According to ENV 1300:1999	
		general RU	used apertures <sup>c</sup> RU						
L	body <sup>b</sup>	20	20	30	50	50	1	A	not applicable
	door	30	30	50					
I		30	30	50	50	50	1	A	not applicable
II		50	35	80	50	50	1	A	4
III		80	65	120	50	50	1	B	6
IV		120	100	180	100	50	2	B	9
V		180	145	270	100	50	2	B	14
VI		270	220	400	100	70	2	C	20
VII		400	350	600	100	120	2	C	30
VIII		550	500	825	100	160	2	C	41

<sup>a</sup> EX-designation is optional for ATM safes in resistance grades II to VIII  
<sup>b</sup> Resistance values do not apply to the body of grade L ATM safes which fulfil the requirements of 7.5.5  
<sup>c</sup> Applies only to apertures actually used; plugged and unused apertures must satisfy the general values.

**5.2** after "(floor and wall)", add "ATM safes"

**5.3** add after h)

i) for ATM safes, the ATM base, if any, will be identified by the manufacturer.

**5.8** add after d):

e) the method by which the ATM safe, or combined ATM safe and ATM base, is anchored to the floor or other surface.