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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 10409-2001

**Burglary resistant safes
(English Translation)**

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Foreword

All technical contents in this Standard are mandatory.

This Standard is the revision of GB 10409-1989.

This Standard no longer specify that the burglary resistant safes must be installed with warning unit. It

classifies the safety performance of the burglary resistant safes. It does not divide the products into

qualified product, first-class products and superior products. The contents of technical requirements and

test methods of previous version have been detailed and supplemented, such as. Class A products in

the previous version were subdivided into Class A1 and Class A2; Class B products were subdivided

into Class B1, B2 and B3. It respectively specifies the gaps between cabinet door and door frame,

according to the height of cabinet. For the code-volume of the electronic lock, add the requirements of

"arbitrarily-variable code"; and requirements and test methods of "anti-electromagnetic interference".

Add the "Inspection Item Table", etc.

This Standard will replace GB 10409-1989, from its implementation date.

This Standard was proposed by the Ministry of Public Security of the People's Republic of China.

This standard shall be under the jurisdiction of Standardization Technical Committee for Security &

Protection Alarm Systems of China.

This Standard was jointly drafted by. Shanghai Diebold King Safe Co., Ltd, Product Quality Supervision,

Inspection and Test Center for Security & Protection Alarm Systems of Ministry of Public Security, and

China Security & Protection Product Industry Association Secretariat.

1 Scope

This Standard specifies the classification, technical requirements, test methods inspection rules and

marks, packaging, transportation, and storage of burglary resistant safes.

This Standard applies to the production and inspection of burglary resistant safes. It also applies to the

burglary resistant safes that is attached with functions such as alarm, fire protection, and/or remote

control.

2 Normative references

The articles contained in the following documents have become part of this Standard when they are

quoted herein. For the dated documents so quoted, all the modifications or revisions made thereafter

shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall

be applicable to this Standard.

GB/T 1720-1979 Method of test for adhesion of paint films

GB/T 6461-1986 Metallic coatings - Coatings cathodic to the substrate - Rating of electro-plated

test specimens subjected to corrosion tests

GB/T 10125-1997 Corrosion tests in artificial atmospheres - Salt spray tests

GB/T 12335-1990 Metallic coatings - Coatings anodic to the substrate - Rating of test specimens

subjected to corrosion

GB/T 15211-1994 Environmental testing for alarm systems

GB/T 15482-1995 Single sampling procedures and tables for product quality audit of small population by attributes

GB/T 17626.2-1998 Electromagnetic compatibility - Testing and measurement techniques - Electrostatic discharge immunity test

GB/T 17626.3-1998 Electromagnetic compatibility - Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test

GB/T 17626.4-1998 Electromagnetic compatibility - Testing and measurement techniques - Electrical fast transient/burst immunity test

GB/T 17626.5-1999 Electromagnetic compatibility - Testing and measurement techniques - Surge

immunity test

GB/T 17626.11-1999 Electromagnetic compatibility Testing and measurement techniques Voltage

dips, short interruptions and voltage variations immunity tests

GA/T 73-1994 Thief resistant machine lock

3 Definitions

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

3.1 Burglary resistant safes

It refers to a kind of safes that is equipped with mechanical and electronic lock (including combination

lock, IC card lock, etc.) which can be used to resist abnormal entry under specified conditions within the

required time.

3.2 Safety class

The classification of anti-destruction capacity that the burglary resistant safes can withstand. The

classification is divided based on the duration of net working time that the burglary resistant safes can

resist to the abnormal entry, under the action of the specified destroying tools.

3.3 Entry

During the destruction resistant test, open the cabinet door of various burglary resistant safes or make

an opening not smaller than the specified area on the cabinet door or body, within the specified net

working time. Class A burglary resistant safes is 38cm²; Class B and Class C burglary resistant safes are

13cm².

3.4 Common hand tools

Including the chisel, punch, wedge, screwdriver, hacksaw, wrench, pliers, hammer with the of weight not

more than 3.6kg, the prying tools with the length of not more than 1.5m, and general digging tools.

3.5 Portable electric tools

The electric hand drills with the bit diameter of not more than 12.5mm, the electric hammer drills with the

punch diameter of not more than 25mm and the pressure devices.

3.6 Grinding point

The grinding tools with shapes such as cone, disk, or cylinder that is driven by die grinders with the

rotate speed of 14000 r/min-22000 r/min.

The mechanical lock used in the burglary resistant safes shall comply with the requirements of GA/T 73.