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Underwriters Laboratories Inc.®

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and committed to quality service

December 27, 1994

Revision pages for

Standard for

Key-Locked Safes (Class KL)

UL 786, Fifth Edition

Attached to this transmittal notice is a revision of the fifth edition of UL 786.

A CHANGE ON A PAGE DATED DECEMBER 27, 1994 IS INDICATED BY A SMALL PRINT NOTE FOLLOWING THE AFFECTED ITEM, PRECEDED AND FOLLOWED BY AN ASTERISK.

THESE NEW AND REVISED REQUIREMENTS ARE NOW IN EFFECT.

Attention is directed to the note on the title page of this standard outlining the procedure to be followed to retain the approved text of ANSI/UL 786-1994.

Revised and/or additional pages may be issued from time to time.

With the inclusion of the accompanying material, the standard consists of pages dated as shown in the following checklist:

Page	Date
1	December 26, 1994 (Reprinted December 27, 1994)
2	—
3, 4	December 26, 1994
5	December 27, 1994
6 – 9	December 26, 1994

DECEMBER 26, 1994

(Title page reprinted: December 27, 1994)



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UL 786

Standard for

Key-Locked Safes (Class KL)

First Edition – May, 1955

Second Edition – May, 1973

Third Edition – March, 1978

Fourth Edition – June, 1983

Fifth Edition

December 26, 1994

Approval as an American National Standard (ANSI) covers the numbered paragraphs on pages dated December 26, 1994. These pages should not be discarded when revised or additional pages are issued if it is desired to retain the ANSI approved text.

An effective date included as a note immediately following certain requirements is one established by Underwriters Laboratories Inc.

Approved as ANSI/UL 786-1984, March 23, 1984

Approved as ANSI/UL 786-1984 (R1989), February 9, 1989

Approved as ANSI/UL 786-1994, January 31, 1994

Revisions of this standard will be made by issuing revised or additional pages bearing their date of issue. A UL Standard is current only if it incorporates the most recently adopted revisions, all of which are itemized on the transmittal notice that accompanies the latest published set of revision pages.

ISBN 1-55989-698-1

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INTRODUCTION

1 Scope

1.1 These requirements cover the construction and test of key-locked safes, Class KL.

1.2 As used in these requirements, Class KL safes are those key-locked safes designed to offer protection against entry by common mechanical and electrical tools, and any combination of thereof. Such safes are intended primarily for the protection of daily cash deposits.

1.3 A product that contains features, characteristics, components, materials, or systems new or different from those covered by the requirements in this standard, and that involve a risk of fire, electric shock, or injury to persons shall be evaluated using the appropriate additional component and end-product requirements as determined necessary to maintain the acceptable level of safety as originally anticipated by the intent of this standard. A product whose features, characteristics, components, materials, or systems conflict with specific requirements or provisions of this standard cannot be judged to comply with this standard. Where considered appropriate, revision of requirements shall be proposed and adopted in conformance with the methods employed for development, revision, and implementation of this standard.

1.3 added December 27, 1994

2 General

2.1 Components

2.1.1 Except as indicated in 2.1.2, a component of a product covered by this standard shall comply with the requirements for that component. See Appendix A for a list of standards covering components generally used in the products covered by this standard.

2.1.2 A component need not comply with a specific requirement that:

- a) Involves a feature or characteristic not needed in the application of the component in the product covered by this standard, or
- b) Is superseded by a requirement in this standard.

2.1.3 A component shall be used in accordance with its recognized rating established for the intended conditions of use.

2.1.4 Specific components are recognized as being incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions for which they have been recognized.

2.2 Units of measurement

2.2.1 If a value for measurement is followed by a value in other units in parentheses, the second value may be only approximate. The first stated value is the requirement.

2.3 Undated references

2.3.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

3 Glossary

- 3.1 For the purpose of this standard the following definitions apply.
- 3.2 **COMMON HAND TOOLS** – Common hand tools include: chisels, punches, wrenches, screwdrivers, pliers, hammers, and sledges not exceeding the 8-pound (3.6-kg) size, and pry bars and ripping tools not exceeding 5 feet (1.52 m) in length.
- 3.3 **ENTRY** – The act of opening the door or making a 6 square inch (38.7 cm²) opening entirely through the door or front face.
- 3.4 **PICKING TOOLS** – Common or standard patterns that are not intended for use against a specific design of safe.
- 3.5 **PRESSURE-APPLYING DEVICES** – Portable drill presses, portable drilling jigs, or other types of drill holding mechanisms.
- 3.6 **PORTABLE ELECTRIC TOOLS** – Electric hand drills not exceeding the 1/2 inch (12.7 mm) size.
- 3.7 **SIX-SQUARE-INCH OPENING** – A rectangular-shaped opening 6 square inches (38.7 cm²) in area, with the smallest dimension 1.5 inches (38.1 mm) or greater, or a circular opening 2.76 inches (70.1 mm) in diameter.

4 Net Working Time

- 4.1 Because the object of the investigation is to arrive at satisfactory conclusions as to the resistance of a safe to expert attack, the testing party, consisting of two skilled operators, may select a number of attacks within the scope of the test procedure and attempt each attack for the full allotted time. The product is acceptable if it resists the method or combination of methods applied to a given point or area for the net working time specified.
- 4.2 The net working time is to be considered as the period during which an attack is actively in progress on the sample and does not include preparations for test, time required for safety precautions, and delays that cannot be anticipated.

CONSTRUCTION

5 General

- 5.1 The safe shall weigh not less than 750 pounds (340 kg), or shall be equipped with anchors and instructions for anchoring the safe in a larger safe, in concrete blocks, or to the premises in which the safe is to be located.
- 5.2 The metal in the body shall be:
- Equivalent to solid open-hearth steel at least 1 inch (25.4 mm) thick having an ultimate tensile strength of 50,000 psi (345 MPa);
 - Either cast or fabricated; and
 - Fastened in a manner determined to be equivalent to a continuous 1/4-inch (6.4-mm) penetration weld of open-hearth steel having an ultimate tensile strength of 50,000 psi.

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