ULC
STANDARD

ULC-S324:1993-R2016
(Reaffirmed 2016)

STANDARD FOR BURGLARY RESISTANT SAFES

Prepared and Published by:

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The intended primary application of this standard is stated in its scope. It is important to note that it remains the responsibility of the user of the standard to judge its suitability for the particular application.

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TABLE OF CONTENTS

PAGE

COMMITTEE MEMBERSHIP LIST
TASK GROUP MEMBERSHIP LIST
REFERENCE PUBLICATIONS
PREFACE 1
1. SCOPE 2
2. GLOSSARY 2
3. CLASSIFICATION 4
4. CONSTRUCTION 5
    4.1 General 5
5. PERFORMANCE 6
    5.1 General 6
    5.2 Attack Tests 6
        5.2.1 Objective 6
        5.2.2 Test of Safes 7
        5.2.3 Test of Deposit Functions 8
        5.2.4 Test of Explosive Resistance 8
    5.3 Test Equipment 9
6. MARKING 9

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REFERENCE PUBLICATIONS

The document shown below is referenced in the text of this Standard. Unless otherwise stated elsewhere in this Standard such reference shall be considered to indicate the edition and/or revision of the document available at the date on which the Committee approved this ULC Standard.

Standard Published by Underwriters' Laboratories of Canada

- ULC-S327-98, Standard for Burglary Resistant Combination Locks.

- ULC S334-98, Standard for Burglary Resistant Electronic Combination Locks.

(Amendment No. 2, Dated November 1999, Replaced ULC Subject C768-1974, with ULC-S327-98 and ULC-S334-98)

STANDARD FOR BURGLARY RESISTANT SAFES

PREFACE

This is the Reaffirmation of the First Edition of the Standard for Burglary Resistant Safes, ULC-S324.

This Edition of the Standard has been formally approved by the ULC Standards Committee on Physical Security Equipment.

This Standard has been developed in compliance with the requirements of SCC for accreditation of a Standards Development Organization.

Only metric SI units of measurement are used in this Standard. If a value for measurement is followed by a value in other units in parentheses, the second value may be approximate. The first stated value is the requirement.

In Canada, there are two official languages, English and French. All safety warnings must be in French and English. Attention is drawn to the possibility that some Canadian authorities may require additional markings and/or installation instructions to be in both official languages.

This First Edition National Standard of Canada has been reaffirmed.

Attention is drawn to the possibility that some of the elements of this Canadian standard may be the subject of patents rights. ULC Standards shall not be held responsible for identifying any or all such patents rights.

Requests for interpretation of this Standard should be sent to ULC Standards. The requests should be worded in such a manner as to permit a “yes” or “no” answer based on the literal text of the requirement concerned.

The review and action to revise or reaffirm this Standard will not exceed 5 years from the date of publication, unless the Standard is identified as fitting within a stabilized category, whereby the review will commence within the appropriate time frame set out by ULC Standards.

This Standard is intended to be used for conformity assessment.

1. SCOPE

1.1 These requirements cover burglary-resistant safes classified as follows:

A Tested on Six Sides:

(i) Residential Safe;

(ii) Tool Resistant Safe - Class TL-15X6;

(iii) Tool Resistant Safe - Class TL-30X6;

(iv) Torch and Tool Resistant Safe - Class TRTL-15X6;

(v) Torch and Tool Resistant Safe - Class TRTL-30X6; and

(vi) Torch and Tool Resistant Safe - Class TRTL-60X6.

B Tested on Side Containing the Door:

(i) Tool Resistant Safe - Class TL-15;

(ii) Tool Resistant Safe - Class TL-30;

(iii) Torch and Tool Resistant Safe - Class TRTL-15; and

(iv) Torch and Tool Resistant Safe - Class TRTL-30.

1.2 At the manufacturer's option, a suffix 'D' may be used in any of the classes in Clause 1.1-A to denote a safe with a deposit mechanism which has been subjected to the full test for the class. An 'E' suffix may be used in any of the classes in Clause 1.1 - A to denote a safe which has been tested for explosive resistance.

2. GLOSSARY

2.1 For the purpose of this Standard, the definitions (**in bold print**) in Clauses 2.2 through 2.21 shall apply.

2.2 **COMMON HAND TOOLS** - Chisels, punches, wrenches, screwdrivers, pliers, hammers, sledges not exceeding the 3.5 kg size, and pry bars and ripping tools not exceeding 1500 mm in length.

2.3 **CUSTOMER ACCESS PANEL** - That portion of a safe that is made available to a customer for the performance of transactions.

2.4 **CUTTING TORCH** - A heavy duty commercially available oxy-fuel **cutting torch**, equipped with a maximum No. 20 tip which contains six preheat holes, each 1.40 mm diameter and one oxygen hole of 5 mm diameter. A maximum of five oxygen bottles and two acetylene bottles may be connected to manifolds to provide continuous flow.

2.5 **DEPOSIT** - Any item which a **product** is designed to accept and store.

2.6 **ENTRY** - Constitutes:

A Opening the door; or

B For TL classifications, making a minimum 39 cm^2 opening such as, but not limited to:

i) A rectangular opening, with the smallest dimension 38 mm, or

ii) A circular opening 70 mm in diameter, or

iii) A triangular opening with at least a 50 mm dimension from the base to the peak; or

C For TRTL classifications, making a minimum 13 cm^2 opening such as, but not limited to:

i) A rectangular opening with the smallest dimensions 25 mm, or

ii) A circular opening 40 mm in diameter, or

iii) A triangular opening with at least a 25 mm dimension from the base to the peak.

(Amendment No. 1, May 1998, Revised Clause 2.6)

2.7 **FISHING** - Introducing into the **product** any form of lines, wires, or the like to which one or more hooks or other devices may be attached, that may be manipulated so as to grasp the **deposit** and then withdraw it.

2.8 **FISHING AND TRAPPING TOOLS** - Cardboard, plastic sheet, fish hooks, flexible spring shaft, pickup fingers, lines, shim stock, and the like.

2.9 **FORCING** - The use of pry bars, screwdrivers, wrenches, or the like, to enlarge an opening, or to create an opening by breaking out or distorting a part, to gain access to the **deposits**.

2.10 **HYDRAULIC TOOLS** - Portable hydraulic operated jacks, wedges, and similar **pressure applying devices** not exceeding 445 kN of force.

2.11 **IMPACT TOOLS** - Portable electric impact hammers and hammer drills, not exceeding the 25 mm chuck size. Two hammers may be used at any one time. Maximum consumption of each hammer shall be 1250 W. Maximum mass of hammer shall be 15 kg. No limit to number of newly sharpened bits/chisels.