UL 687

STANDARD FOR SAFETY

Burglary-Resistant Safes

Documents
Document Sharing Hub

Full document details: UL 687 2015

Documents
Document Sharing Hub

Full document details: UL 687 2015

UL Standard for Safety for Burglary-Resistant Safes, UL 687

Fifteenth Edition, Dated July 19, 2011

Summary of Topics

This revision of ANSI/UL 687 is being issued to reflect the reaffirmation of the ANSI approval of the standard. No technical changes have been made to the document.

The revisions are substantially in accordance with Proposal(s) on this subject dated September 25, 2015.

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form by any means, electronic, mechanical photocopying, recording, or otherwise without prior permission of UL.

UL provides this Standard ″as is″ without warranty of any kind, either expressed or implied, including but not limited to, the implied warranties of merchantability or fitness for any purpose.

In no event will UL be liable for any special, incidental, consequential, indirect or similar damages, including loss of profits, lost savings, loss of data, or any other damages arising out of the use of or the inability to use this Standard, even if UL or an authorized UL representative has been advised of the possibility of such damage. In no event shall UL's liability for any damage ever exceed the price paid for this Standard, regardless of the form of the claim.

Users of the electronic versions of UL's Standards for Safety agree to defend, indemnify, and hold UL harmless from and against any loss, expense, liability, damage, claim, or judgment (including reasonable attorney's fees) resulting from any error or deviation introduced while purchaser is storing an electronic Standard on the purchaser's computer system.

Documents
Document Sharing Hub

Full document details: UL 687 2015

No Text on This Page

Documents
Document Sharing Hub

Full document details: UL 687 2015

JULY 19, 2011
(Title Page Reprinted: November 25, 2015)

ANSI/UL 687-2011 (R2015)

UL 687

Standard for Burglary-Resistant Safes

First Edition – June, 1938
Second Edition – June, 1943
Third Edition – January, 1953
Fourth Edition – May, 1955
Fifth Edition – June, 1960
Sixth Edition – August, 1967
Seventh Edition – July, 1972
Eighth Edition – December, 1977
Ninth Edition – January, 1982
Tenth Edition – September, 1987
Eleventh Edition – December, 1991
Twelfth Edition – May, 1995
Thirteenth Edition – August, 2000
Fourteenth Edition – October, 2005

Fifteenth Edition

July 19, 2011

This ANSI/UL Standard for Safety consists of the Fifteenth Edition including revisions through November 25, 2015.

The most recent designation of ANSI/UL 687 as a Reaffirmed American National Standard (ANS) occurred on November 25, 2015. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, or effective date information.

The Department of Defense (DoD) has adopted UL 687 on June 10, 1976. The publication of revised pages or a new edition of this Standard will not invalidate the DoD adoption.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at http://csds.ul.com.

UL's Standards for Safety are copyrighted by UL. Neither a printed nor electronic copy of a Standard should be altered in any way. All of UL's Standards and all copyrights, ownerships, and rights regarding those Standards shall remain the sole and exclusive property of UL.

COPYRIGHT © 2015 UNDERWRITERS LABORATORIES INC.

Documents
Document Sharing Hub

Full document details: UL 687 2015

No Text on This Page

Documents
Document Sharing Hub

Full document details: UL 687 2015

CONTENTS

INTRODUCTION

1 Scope 5
2 General 6
2.1 Components 6
2.2 Units of measurement 6
2.3 Undated references 6
3 Glossary 6

CONSTRUCTION

4 General 8
4.1 Compliance 8
4.2 Locks 8
4.3 Corrosion protection 9
5 Class TL-15 and Deposit Safes 9
5.1 General 9
5.2 Locks 10
6 Class TL-30 10
6.1 General 10
6.2 Locks 11
7 Class TL-15X6 11
7.1 General 11
7.2 Locks 11
8 Class TL-30X6 12
8.1 General 12
8.2 Locks 12
9 Class TRTL-30 12
9.1 General 12
9.2 Locks 13
10 Classes TRTL-15X6, TRTL-30X6, and TRTL-60X6 14
10.1 General 14
10.2 Locks 14
11 Class TXTL-60X6 14

PERFORMANCE

12 General 14
12.1 Compliance 14
12.2 Samples 15
12.3 Combination drifting and drilling 15
12.4 Drilling lock mechanism 15
12.5 Handle forcing 15
12.6 Door sledging and wedging 16
12.7 Drilling of an opening 16
13 Net Working Time 16
14 Attack Resistance 16
15 Class TL-15 17
15.1 Performance test 17
15.2 Test equipment 18

Documents
Document Sharing Hub
Full document details: UL 687 2015

16 Class Deposit Safes 18
16.1 Performance test 18
16.2 Test equipment 19
17 Class TL-30 19
17.1 Performance test 19
17.2 Test equipment 19
18 Class TL-15X6 20
18.1 Performance test 20
18.2 Test equipment 20
19 Class TL-30X6 20
19.1 Performance test 20
19.2 Test equipment 20
20 Class TRTL-30 21
20.1 Performance test 21
20.2 Test equipment 21
21 Class TRTL-15X6 21
21.1 Performance test 21
21.2 Test equipment 22
22 Class TRTL-30X6 22
22.1 Performance test 22
22.2 Test equipment 22
23 Class TRTL-60X6 23
23.1 Performance test 23
23.2 Test equipment 23
24 Class TXTL-60X6 24
24.1 Performance test 24
24.2 Test equipment 24

MARKING

25 General 25

Documents
Document Sharing Hub
Full document details: UL 687 2015

INTRODUCTION

1 Scope

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

a) Test attack against the door and front face:

1) Tool-Resistant Safe – Class TL-15

2) Tool-Resistant Safe – Deposit Safe

3) Tool-Resistant Safe – Class TL-30

4) Torch- and Tool-Resistant Safe – Class TRTL-30

b) Test attack against the door and body:

1) Tool-Resistant Safe – Class TL-15X6

2) Tool-Resistant Safe – Class TL-30X6

3) Torch- and Tool-Resistant Safe – Class TRTL-15X6

4) Torch- and Tool-Resistant Safe – Class TRTL-30X6

5) Torch- and Tool-Resistant Safe – Class TRTL-60X6

6) Torch-, Explosive-, and Tool-Resistant Safe – Class TXTL-60X6

1.2 These requirements do not cover night depositories intended to receive deposits from outside a building into a receiving safe inside a building. Such requirements are in the Standard for Night Depositories, UL 771.

1.3 A safe classified as TL-15, TL-30, TL-15X6, or TL-30X6 may be constructed with an opening in the body for connection to the chute of a night depository. A safe classified as TL-15 or TL-30 that has a body constructed of solid metal may be marked to provide for an opening to be cut into the body in the field for connection to the chute of a night depository.

Documents
Document Sharing Hub
Full document details: UL 687 2015