

UL Safe Ratings Explained: RSC to TXTL-60

Overview

Underwriters Laboratories (UL) ratings define safe construction standards and burglary resistance. Understanding the difference between RSC, TL-15, TL-30, TRTL-30, and TXTL-60 is essential for recommending appropriate safes for customer needs and insurance coverage.

UL Rating System

Rating	Test Time	Test Tools	Attack Type	Insurance Value
RSC	5 minutes	Basic hand tools	Manual tools only	Up to \$5,000
TL-15	15 minutes	Basic + power tools	Manual & electrical	Up to \$25,000
TL-30	30 minutes	Comprehensive tools	Manual, electrical, drilling	Up to \$75,000
TRTL-30	30 minutes	Comprehensive + torch tools	Comprehensive tools including oxyacetylene torch	Up to \$150,000
TXTL-60	60 minutes	Comprehensive + explosive tools	Comprehensive tools including explosives	Up to \$300,000+

Residential Security Container (RSC)

Rating: Basic burglary protection

Test Duration: 5 minutes

Construction: Solid steel body, functioning lock, hinges protected

Best For: Home safes, document storage, personal valuables

Insurance Coverage: Typically \$2,500-\$5,000 depending on policy

Not Recommended For: Business cash storage, high-value inventories

TL-15 Safe Rating

Rating: Commercial burglary protection against common attacks

Test Duration: 15 minutes with all available tools

Attack Methods Tested: Hand tools, pry bars, drilling, cutting, power tools

Construction: Thicker steel body, hardened lock mechanism, re-locking devices

Best For: Retail operations, small businesses, night deposit safes

Insurance Coverage: \$25,000-\$50,000 depending on location and security measures

TL-30 Safe Rating

Rating: Extended protection for prolonged burglary attempts

Test Duration: 30 minutes with all common tools

Attack Methods Tested: TL-15 methods plus high-speed drilling, chiseling

Construction: Significantly thicker steel, advanced lock design, anti-drill plates, hardened hinges

Best For: Medium-sized businesses, jewelry stores, pharmaceutical storage

Insurance Coverage: \$50,000-\$150,000 depending on policy

TRTL-30 Safe Rating

Rating: High-security protection against torch attacks

Test Duration: 30 minutes against all tools including torch

Attack Methods Tested: TL-30 methods plus oxyacetylene torch, plasma cutting

Construction: Multiple steel layers, torch-resistant composite materials, reinforced seals

Best For: High-value retail (jewelry, watches, diamonds), banks, government records

Insurance Coverage: \$100,000-\$250,000+ depending on other security measures

TXTL-60 Safe Rating

Rating: Maximum burglary protection including explosive attacks

Test Duration: 60 minutes against all tools and explosives

Attack Methods Tested: TRTL-30 methods plus small explosive charges, shape charges

Construction: Composite armor, high-tensile steel, explosive-resistant body design

Best For: Maximum security installations, high-value inventory, government/law enforcement

Insurance Coverage: \$250,000+ with documented security protocols

UL Test Standards

UL 687: Burglary-Resistant Safe Standard (RSC, TL-15, TL-30)

UL 1034: Bullet-Resistant Equipment (optional feature)

Test Methodology: Two independent test machines attack safe simultaneously for full duration. Lock must resist manipulation. Interior contents (money, documents) must not be removed.

Insurance Recommendations

Many insurance companies provide premium discounts for UL-rated safes. Coverage amounts depend on safe rating and overall security measures (alarm systems, surveillance, multiple locks). Always consult with customer's insurance agent to verify coverage limits and recommended safe rating before installation.

Cost vs. Protection Matrix

Rating	Typical Cost	Weight	Recommended For
RSC	\$200-\$500	50-100 lbs	Home personal items
TL-15	\$1,500-\$3,000	300-500 lbs	Retail stores, offices
TL-30	\$3,500-\$7,000	500-1000 lbs	High-value retail
TRTL-30	\$8,000-\$15,000	1000+ lbs	Jewelry, cash-heavy
TXTL-60	\$25,000+	2000+ lbs	Government-grade security