



ULC Subject C10(c)-M1986

GUIDE
FOR
EVALUATING DOORS AND FRAMES
FOR LISTING AND LABELLING

UNDERWRITERS' LABORATORIES OF CANADA

Underwriters' Laboratories of Canada

ULC Subject C10(c)-M1986

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In Replying
Please Refer to

ULC Subject C10(c)-M1986

GUIDE FOR EVALUATING DOORS AND FRAMES FOR LISTING AND LABELLING

1. SCOPE

- 1.1 These requirements are primarily for use by manufacturers of doors and door frames.
- 1.2 These requirements cover the CAN4-S104 test evaluation for swinging and sliding doors and door frames.
- 1.3 Listings will be based on the largest size of assembly tested and the maximum duration of test.

2. REFERENCE PUBLICATIONS

- 2.1 The following Standards referenced within this document shall be the current edition:

CAN4-S103M	Standard Specification for "Tin-Clad" Fire Doors Meeting the Performance Required by CAN4-S104.
CAN4-S104M	Standard Method for Fire Tests of Door Assemblies.
CAN4-S105M	Standard Specification for Fire Door Frames Meeting the Performance Required by CAN4-S104.
CAN4-S113	Standard Specification for Wood Core Doors Meeting the Performance Required by CAN4-S104 for Twenty Minute Fire Rated Closure Assemblies.

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- ULC-S121 Standard for Sliding Hardware for Standard Horizontal Mounted Tin Clad Fire Doors.
- ULC-S123 Standard for Swinging Hardware for Standard Tin Clad Fire Doors Mounted Singly and in Pairs.
- ULC-S132M Standard for Emergency Exit and Emergency Fire Exit Hardware.

3. DESCRIPTION OF DOORS, MOUNTING, FIRE TEST METHOD AND ACCEPTANCE

3.1 GENERAL

3.1.1 The following Subsections describe the types of doors covered by these requirements, the mounting and installation, the test method and the acceptance.

3.1.2 For tests in drywall, the minimum drywall surround shall be 7.5 times the wall thickness with a minimum of 600 mm and a minimum total drywall and assembly area of 9.3 m².

3.1.3 Tests of assemblies fabricated from stainless steel qualify for other non-stainless types of steel. Stainless steel Type 302 qualifies all other stainless steels whereas Type 304 does not qualify Type 302.

3.2 HOLLOW-METAL, METAL-CLAD (KALAMEIN), COMPOSITE STEEL-COVERED, AND SHEET-METAL TYPE SWINGING DOORS

3.2.1 The latch shall be located 980 mm above the sill. Latch location in excess of 980 mm shall be restricted accordingly.

3.2.2 Hollow-metal type doors other than stainless steel with face panels greater than 1.2 mm thick need not be tested with glass lights in order to incorporate coverage for glass light as generic designs are available. All other type doors shall be tested with glass lights should provisions be required.

3.2.3 Hollow-metal stainless steel doors shall be tested with glass lights. The door is restricted to glass lights and the thickness of the face panel tested.

3.2.4 Doors as tested above with single point latches may be qualified for use with fire exit hardware by subjecting sample doors to the Emergency Operation Test as described in ULC-S132. The test shall not cause permanent deformation of the test samples. Vertical rod fire exit hardware shall not be permitted on single doors.

3.2.5 The acceptance of a tested assembly may be extended to cover similar assemblies as specified in Table 1.