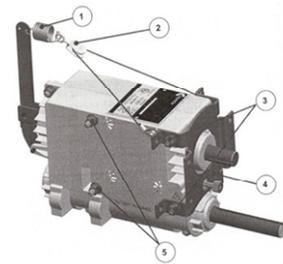
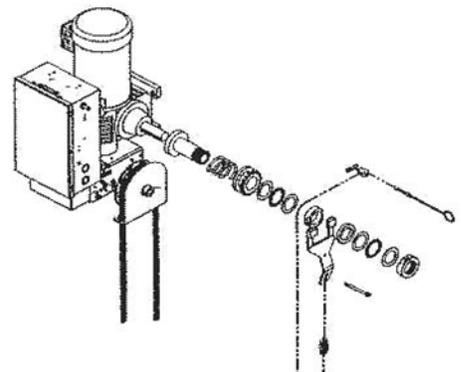


Chain Hoist



Motor



**U.L. APPROVED
ROLLING STEEL FIRE DOORS MODEL F-45
STANDARD SPECIFICATIONS**

| | |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting: | Face of wall and between jambs. Measurement must be full opening width and height. |
| Operation: | Push-up, chain hoist or motor assisted. |
| Curtain: | Shall be roll-formed interlocking curved ,flat or insulated slat of galvanized steel. |
| Gauge: | Thickness of slat material to be as required by width of opening and windloading requirements. |
| Endlocks: | Shall be stamped galvanized steel alternated on ends of slats. |
| Windlocks: | Only for Dade County approved door |
| Locking: | Push-up doors have slide bolts with provisions for padlocks. Padlocks by others. Doors with chain hoist operation have a chain lock. |
| Spring Pipe: | Shall be steel pipe of proper dimension to restrict deflection to .03” per foot of door width. |
| Counterbalance: | Shall be helical torsion type designed to include an overload factor of 25% for maximum safety. Spring tension adjusted by a wheel from the outside of the bracket plates. Ball bearings will be furnished in order to reduce friction and wear on the mechanism. |
| Bracket Plates: | Shall be primed steel plate of sufficient thickness to support spring pipe and curtain and act as enclosures and supports for hood. |
| Hoods: | Shall be minimum of 24 gauge galvanized steel formed to fit around end bracket plates. Intermediate supports furnished when necessary. |
| Guides: | Shall be 3 structural steel angles preassembled or cold roll-formed steel. |
| Automatic | |
| Closing Device: | Mechanism shall be activated by a fusible link which is made of a low melting (160 degree) alloy. The fusible link is a member in the chain linkage restraining the automatic closing device, the governor on the drive bracket which controls the rate of descent. The fusible link also activates a dropout device that converts all geared or motor assisted doors to push-up operation. |

Best Rolling Door Rolling Steel Fire Doors are installed on openings requiring fire labeled closures and close automatically when released by a fusible link. Best Rolling Door’s labeled door can also be operated as a standard service door either manually, chain hoist or motor operated.

- Class “A” Label division of fire walls, 3 hour rating.,.**
- Class “B” Label enclosures to vertical shafts, 1 ½ hour rating.**
- Class “C” Label openings in corridors or partitions, 3/4 hour rating.**
- Class “D” Label exterior walls, severe exposure, 1½ hour rating.**



Underwriters Laboratories Inc. ®

FILE R21245

Manufacturer: (706023-001)

BEST ROLLING MFR INC

9780. NW 79TH AVE

HIALEAH GARDENS

FL 33016

Issued 2003/03/27

Revised 2008/01/15

ROLLING-STEEL TYPE FIRE DOORS

(GSVV)

This Procedure authorizes the above Manufacturer to use the marking specified by Underwriters Laboratories Inc. only on products covered by this Procedure, in accordance with the applicable Follow-Up Service Agreement.

Rolling steel fire door assemblies intended for 3, 1-1/2, and 3/4 h exterior or interior locations.

The door shall be operated by handles mounted on the bottom bar, by chain, by a hand crank, or by a Listed motor drive assembly. The doors shall be made to close automatically by the operation of an automatic release mechanism which incorporates fusible links.

Alternate operators for the doors shall be UL Listed. The model numbers will vary depending on door size.

Two types of Classification Marks are available for rolling steel fire doors based upon the size of the door. The maximum size of a rolling steel fire door that has been subjected to a fire test is intended for an opening not exceeding 152 sq ft in area, with no dimension exceeding 13 ft 6 in. Rolling steel fire doors intended for openings not exceeding 152 sq ft in area and with no dimension exceeding 13 ft 6 in. bear the "Rolling Steel Fire Door" Classification Mark.

Rolling steel fire doors exceeding these maximum dimensions and manufactured in compliance (except for size) with UL's requirements for design, materials and construction may bear a Classification Mark that includes the statement "Oversized Rolling Steel Fire Door." Oversized doors are not Classified as to temperature transmission. Prospective users should ascertain from the Authority Having Jurisdiction whether the assembly is acceptable for a specific location.

BEST ROLLING DOOR, INC

FIRE ROLLING DOOR

MODEL F-45

Rolling Steel Fire Door Info.

GSVV – FIRE DOOR TYPE

USE AND INSTALLATION

This category covers rolling steel fire doors, which consist of interlocking galvanized or stainless steel slats, bottom bar, wall guides, barrel assembly, automatic release device, governor, and counterbalance mechanism. The doors may be provided with a motor drive assembly that does not interfere with the manual or automatic (fusible link, other fixed temperature release, or a rate of rise temperature release) closing of the door.

Rolling steel fire doors are intended to be installed in accordance with ANSI/NFPA 80, "Standard for Fire Doors and Other Opening Protectives." Authorities Having Jurisdiction should be consulted before installation.

Rolling steel fire doors are intended to be installed in concrete and masonry walls, unless otherwise noted in the individual Classifications. The doors are intended to be installed in accordance with the installation instructions provided with each assembly.

SIZES

Two types of Classification Marks are available for rolling steel fire doors based upon the size of the door. The maximum size of a rolling steel fire door that has been subjected to a fire test is intended for an opening not exceeding 152 sq ft in area, with no dimension exceeding 13 ft 6 in. Rolling steel fire doors intended for openings not exceeding 152 sq ft in area and with no dimension exceeding 13 ft 6 in. bear the "Rolling Steel Fire Door" Classification Mark.

Rolling steel fire doors exceeding these maximum dimensions and manufactured in compliance (except for size) with UL's requirements for design, materials and construction may bear a Classification Mark that includes the statement "Oversized Rolling Steel Fire Door." Oversized doors are not Classified as to temperature transmission. Prospective users should ascertain from the Authority Having Jurisdiction whether the assembly is acceptable for a specific location.

BOTTOM BAR REPLACEMENT

The bottom bar of rolling steel fire doors is subject to damage from everyday use and occasionally the damage warrants replacement of the bottom bar. When the Classification Mark is attached to the bottom bar, the following method is authorized for replacement of the bottom bar. When acceptable to the Authority Having Jurisdiction, the Classification Mark may be removed from the bottom bar and returned to the door manufacturer along with a request for a new bottom bar. The door manufacturer is authorized to provide a replacement bottom bar for field installation with a Classification Mark that reads "Replacement Part for Rolling Fire Door" or "Replacement Part for Oversized Rolling Fire Door." The Classification Mark also includes the UL symbol, the word "CLASSIFIED" above the UL symbol (as illustrated in the Introduction of this Directory), a serial number, and a fire rating equal to that of the original Classification Mark that was returned to the manufacturer.

UL MARK

The Classification Mark of Underwriters Laboratories Inc. on the product is the only method provided by UL to identify products manufactured under its Classification and Follow-Up Service. The Classification Mark covers the design and construction of the door, including the governor and automatic releasing mechanism. The Classification Mark for regular-sized rolling steel fire doors includes the UL symbol, the word "CLASSIFIED" above the UL symbol (as illustrated in the Introduction of this Directory), and the following additional information:

**ROLLING STEEL FIRE DOOR
FIRE RESISTANCE CLASSIFICATION
RATING¹: HR
TEMP RISE²:
No.**

The Classification Mark for oversized rolling steel fire doors includes the UL symbol, the word "CLASSIFIED" above the UL symbol (as illustrated in the Introduction of this Directory), and the following additional information:

**OVERSIZED ROLLING STEEL FIRE DOOR
AS TO HR FIRE RATING¹ ONLY
SEE UL FIRE RESISTANCE DIRECTORY
No.**

(1) 4, 3, 1-1/2 or 3/4

(2) 30 MIN - 250°F MAX, 30 MIN - 450°F MAX, 30 MIN - 650°F MAX, or no reference to temperature rise when the temperature rise exceeds 650°F at 30 min.

The UL Mark is generally attached to the bottom bar of the rolling steel fire door.

BEST ROLLING DOOR, INC

FIRE ROLLING DOOR

MODEL F-45

Fire Tests of Door Assemblies

UL 10B

1 Scope

1.1 These methods of fire tests are applicable to door assemblies of various materials and types of construction for use in wall openings to retard the passage of fire.

1.2 Tests made in conformity with these test methods register performance during the test exposure; and such tests shall not be construed as determining compliance for use after exposure to fire.

1.3 It is the intent that tests made in conformity with these test methods develop data to enable regulatory bodies to determine the compliance of door assemblies for use in locations where fire resistance of a specified duration is required.

1.4 These methods are intended to evaluate the ability of a door assembly to remain in an opening during a predetermined test exposure.

1.5 The tests expose a specimen to a standard fire exposure controlled to achieve specified temperatures throughout a specified time period, followed by the application of a specified standard fire hose stream. The exposure, however, is not representative of all fire conditions, which vary with changes in the amount, nature, and distribution of fire loading, ventilation, compartment size and configuration, and heat sink characteristics of the compartment. It does, however, provide a relative measure of fire performance of door assemblies under these specified fire exposure conditions.

1.6 Any variation from the construction or conditions that are tested is capable of substantially changing the performance characteristics of the assembly.

1.7 The methods do not provide the following:

- a) Full information as to performance of all door assemblies in walls constructed of materials other than those tested.
- b) Evaluation of the degree by which the door assembly contributes to the risk of fire by generation of smoke, toxic gases, or other products of combustion.
- c) A temperature limit on the unexposed side of the door assembly.
- d) A limit on the number of openings intended in glazed areas or of the number and size of lateral openings between the door and frame.
- e) Measurement of the degree of control or limitation of the passage of smoke or products of combustion through the door assembly.