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Rolling Steel Fire Door Protection for Fire Wall Openings

Introduction

This document describes the rolling fire doors available from DASMA rolling door manufacturers that are listed by UL or ITS (W-H), or Approved by FM Approvals. These fire doors may be attached to the jambs of masonry and/or non-masonry walls in accordance with the manufacturer's listing/approval. The Life Safety Code, designated as NFPA 101, prohibits this type door in exit openings.

There are four basic types of rolling steel fire door protection for fire wall openings, which are each described in this Technical Data Sheet. All rolling steel fire doors are designed to close automatically in the event of a fire, and the great majority are equipped with a governor to control the closing speed.

1. Rolling Fire Door

A Rolling Fire Door consists of interlocking slats, a bottom bar, wall guides, a barrel assembly, an automatic release device, a governor, a hood, and a counterbalance mechanism along with supportive bracket plates. A Rolling Fire Door has an approval authority label, oversize label or oversize certificate with a fire rating. Typically, the fire rating is 4 hour, 3 hour, or 1-1/2 hour. A Rolling Fire Door may be used for both vehicular and pedestrian applications. Installation is covered in NFPA 80, *Standard for Fire Doors and Other Opening Protectives*, Chapter 11.

2. Rolling Counter Fire Door

A Rolling Counter Fire Door consists of the same components as a Rolling Fire Door, with a smaller slat and smaller guides. The maximum fire wall opening is much smaller than for a Rolling Fire Door. A Rolling Counter Fire Door may close on sill angles, a masonry sill or on a labeled counter top. Installation is covered in NFPA 80, chapter 11. A Rolling Counter Fire Door can be used to close a conveyor opening or a pedestrian type wall opening.

Note: Technical Data Sheets are information tools only and should not be used as substitutes for instructions from individual manufacturers. Always consult with individual manufacturers for specific recommendations for their products and check the applicable local regulations.

This Technical Data Sheet was prepared by the members of DASMA's Rolling Door Division Technical Committee. DASMA is a trade association comprising manufacturers of rolling doors, fire doors, grilles, counter shutters, sheet doors, and related products; upward-acting residential and commercial garage doors; operating devices for garage doors and gates, sensing devices, and electronic remote controls for garage doors and gate operators; as well as companies that manufacture or supply either raw materials or significant components used in the manufacture and installation of the Active Members' products.

3. Service Counter Fire Door

A Service Counter Fire Door will bear a "Service Counter Frame and Fire Door Assembly" label. The wall opening limit is approximately 10 feet wide by 6 feet high. Typically, the fire rating is 1-1/2 hr or 3/4 hr. Installation is covered in NFPA 80, Chapter 13. A Service Counter Fire Door is limited to non-pedestrian type wall openings. Service Counter Fire Door construction is a door curtain consisting of interlocking slats integrally mounted in a four-sided frame to form a labeled door and frame assembly.

4. Fire Shutter

A Fire Shutter is defined in NFPA 80 as a labeled door assembly for protection of a window opening in an exterior wall. A Fire Shutter can be a swinging door, a horizontal or vertical sliding door, or a rolling steel door. Installation is covered in NFPA 80, Chapter 12.

IMPORTANT

Rolling fire doors shall be inspected and tested annually to check for proper operation and full closure.
(Ref: NFPA 80)

Generally Accepted Wall and Door Ratings

Wall Rating (hours)	Door Rating (hours)
1	3/4
2	1 1/2
3	3
4	3, 4

Note: Ratings determined by authorities having jurisdiction, in accordance with local codes.

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