

FIRESTAR™ 700 SERIES

ROLLING STEEL FIRE DOORS

THE INDUSTRY'S MOST INNOVATIVE FIRE DOOR

Wayne-Dalton FireStar Rolling Steel Fire Doors provide a practical and innovative solution to safety and fire protection.

FireStar doors can be drop-tested and reset at any time by anyone, such as a facility manager or maintenance supervisor, thanks to a standard auto-reset feature.

The FireStar door features a forward-thinking design that outperforms industry standard fire doors in all areas, including auto-reset testing capability; smooth, quiet operation; and reliable, long-lasting performance.



COMMERCIAL DOORS & OPERATORS

- SIZES UP TO 24' WIDE AND 24' HIGH
- EASY TO TEST WITH STANDARD AUTO-RESET
- QUIET OPERATION
- UL / FM RATED
- CONFORMS TO NFPA STANDARD 80
(NATIONAL FIRE PROTECTION ASSOCIATION)

ROLLING STEEL FIRE DOORS

700 SERIES

FireStar rolling steel fire doors are a simple and innovative solution for your safety and fire protection needs. Critical elements necessary in the reliable function of fire doors are incorporated as standard features with FireStar's revolutionary design.

Safety

The FireStar door can be drop tested easily and reset in a matter of seconds at any time; no tools or service technicians are required. Please note that this can be done in addition to the door's required annual inspection by a trained door systems technician. By self-testing throughout the year, facility personnel can be even more confident that their door will function safely in the event of fire.

The drop-out mechanism is designed to eliminate down time during drop testing while the viscous governor technology results in smoother, quieter door operation.

Reliability

FireStar's revolutionary design uses a patent-pending planetary gear on the drop-out mechanism ensuring years of reliable service and drop-out performance.

Factory tested and approved for a minimum of 20,000 cycles, the FireStar door can be used and tested on a regular basis without concerns of premature failure.

FireStar fire doors have been tested and approved to meet the requirements of well known agencies, such as Underwriters Laboratories and Factory Mutual, and conform to NFPA Standard 80.

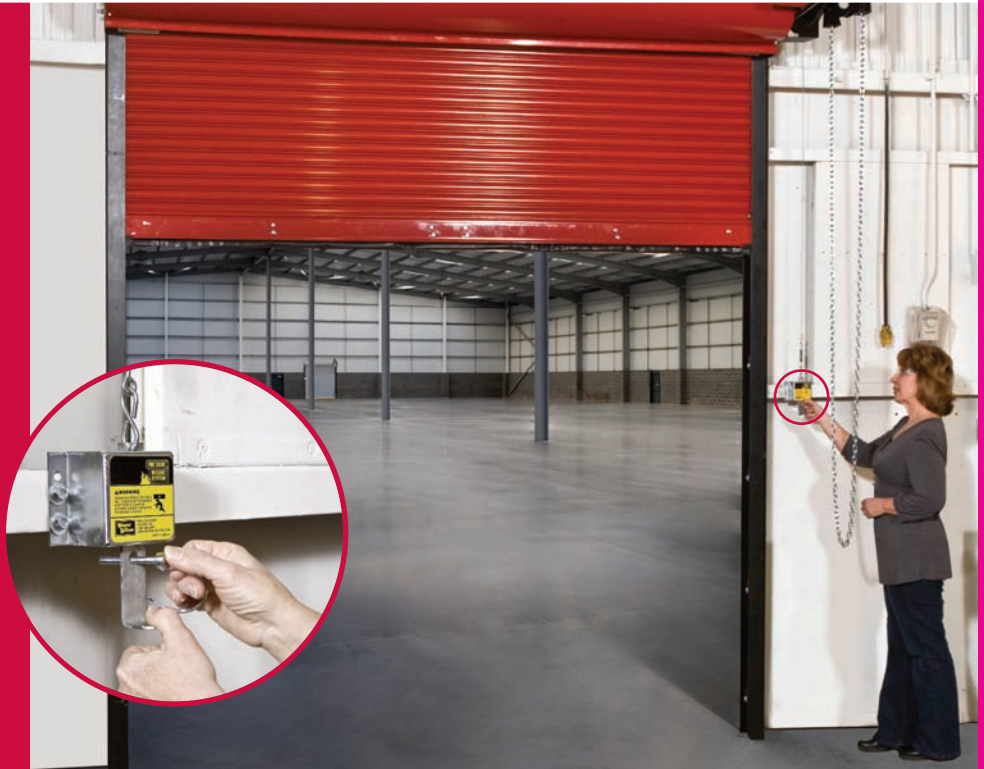
Simplicity

Wayne-Dalton incorporates one standardized component design for all FireStar doors regardless of size, and utilizes fewer parts than other models. This helps to ensure more accurate installations and reduces the possibility of potential service calls in the future.

And as an added benefit, eliminating one of the fusible link cables helps the door and surrounding area look cleaner and less cluttered. It also reduces the risk of cable interference with other nearby fixtures.

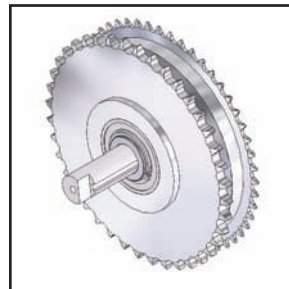
Features

- Easy testing and auto-reset
- Innovative planetary gear design approved and tested for a minimum of 20,000 cycles
- Preassembled drop-out mechanism
- Viscous governor technology
- Single fusible link cable routing
- Standardized component design for all door sizes
- Chain hoist or motor operated
- Available with left-hand or right-hand operation
- UL / FM approved

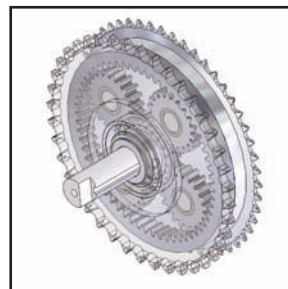


Test Device — FireStar doors feature an easy-to-use release handle.

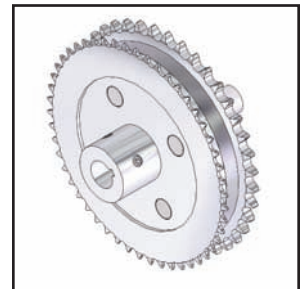
FireStar Door Control Device



Patent pending.

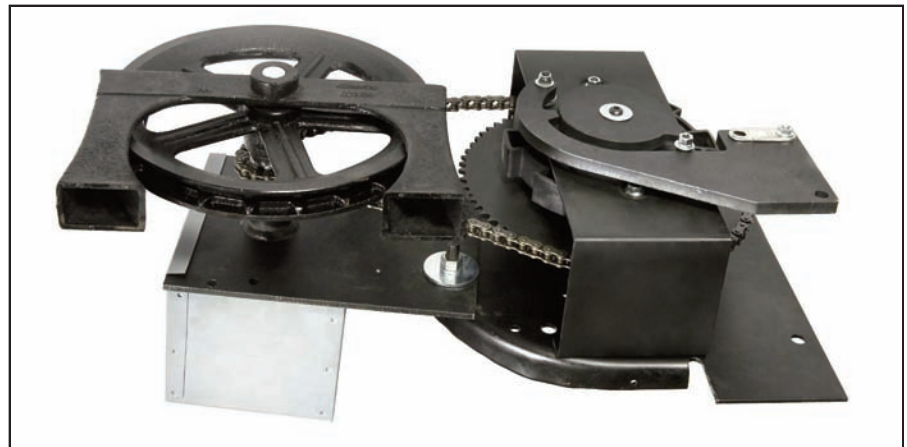


Patent pending.



Patent pending.

- Revolutionary Fire Door control device utilizing a planetary gear arrangement to disconnect the operator and drop the door in the event of a fire.
- Easily drop test and reset a fire door without resetting spring tension and rerouting cables.
- Utilizes a viscous governor to drop the door with minimal noise and vibration.

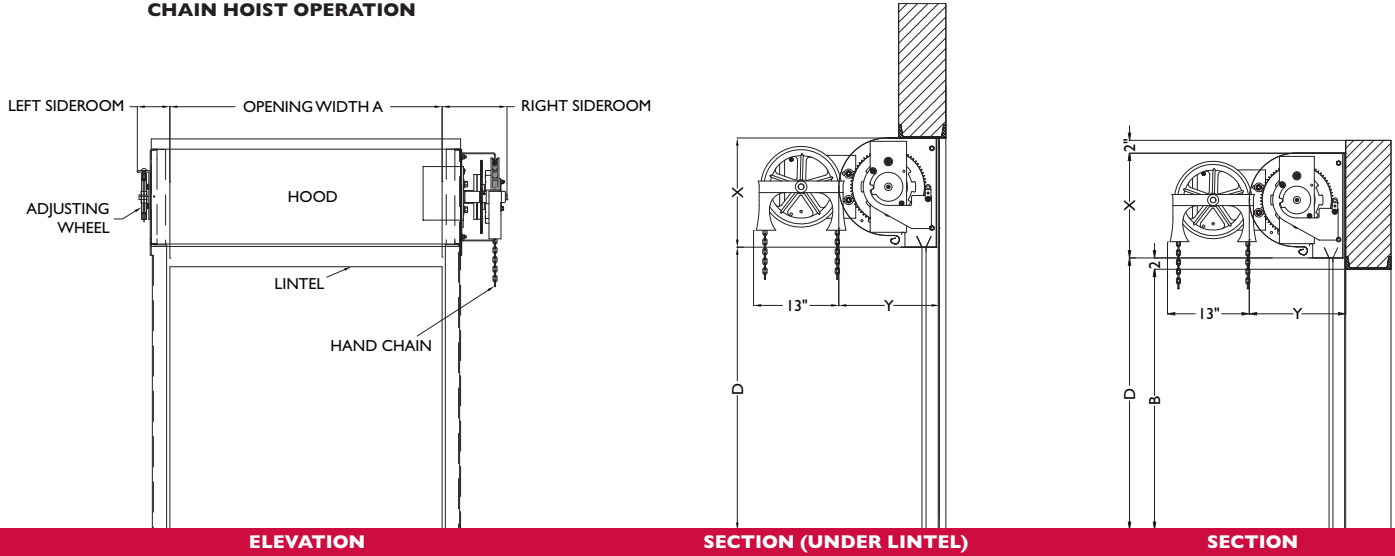


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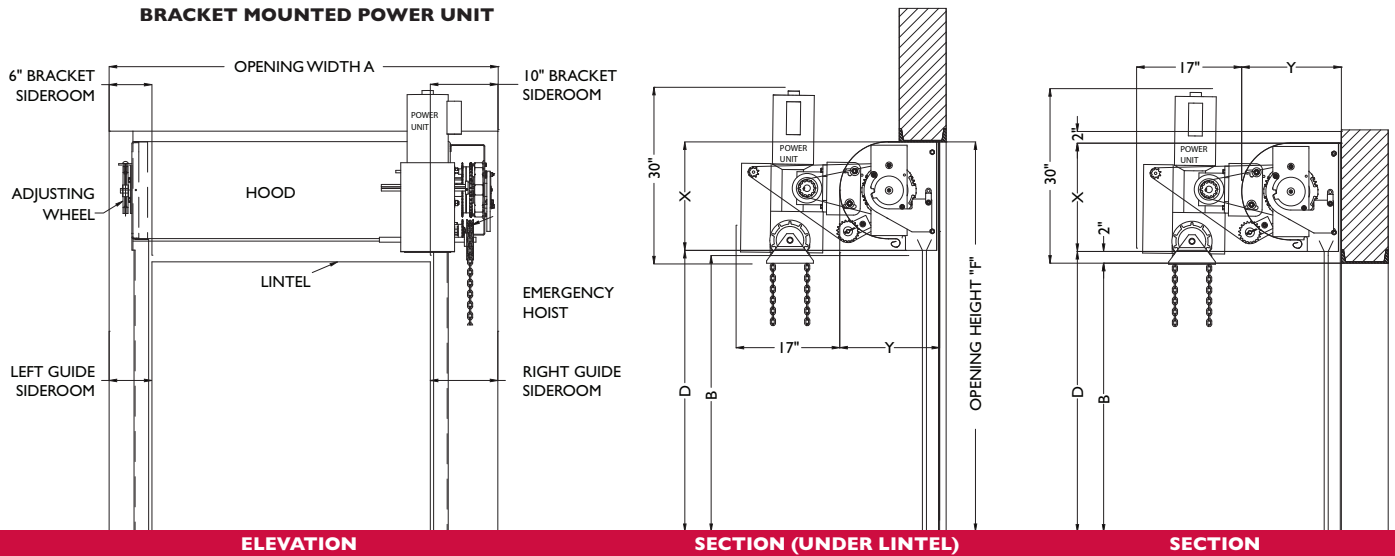
ROLLING STEEL FIRE DOORS

700 SERIES

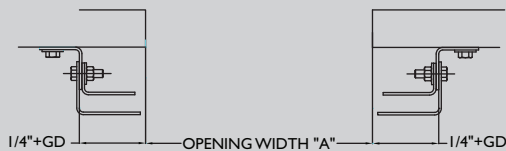
CHAIN HOIST OPERATION



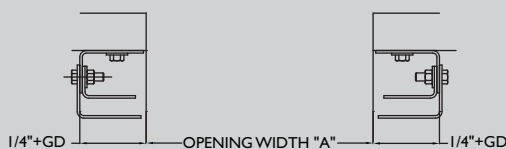
BRACKET MOUNTED POWER UNIT



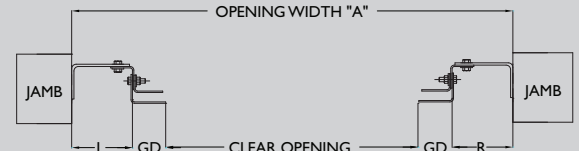
ANGLE GUIDES - FACE MOUNTED TO MASONRY



ANGLE GUIDES - FACE MOUNTED TO STEEL



ANGLE GUIDES - MOUNTED BETWEEN JAMBS



700 Series Door	
GD	WIDTH
2 1/4"	TO 13'6" WIDTH
2 13/16"	TO 20'0" WIDTH
3 1/4"	TO 24'0" WIDTH

NOTE: Dimensions are for general reference only and not for construction purposes.

COMMON GUIDE MOUNTING OPTIONS

ROLLING STEEL FIRE DOORS ACCESSORIES

WayneGuard Release Systems



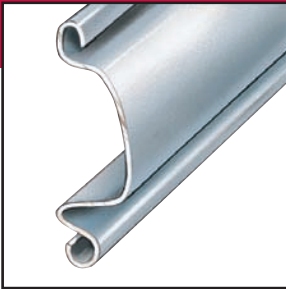
Horns and Strobes



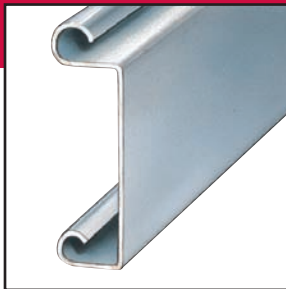
Smoke Detectors



SLAT PROFILES



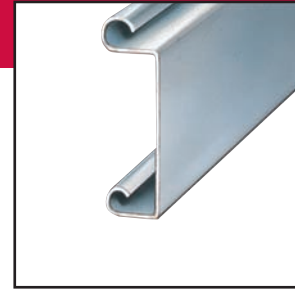
No. 4—Curved-faced single crown slat available in up to 18-gauge steel or stainless steel. Depth of crown: $\frac{1}{8}$ ", $2\frac{1}{8}$ " on centers.



No. 14—Flat-faced slat available in up to 18-gauge steel or up to 18-gauge stainless steel. Depth of crown: $\frac{3}{4}$ ", $2\frac{1}{4}$ " on centers.



No. 2—Curved-faced single crown slat available in up to 20-gauge steel or stainless steel. Depth of crown: $\frac{1}{2}$ ", $1\frac{1}{8}$ " on centers.



No. 17—Flat-faced slat in up to 20-gauge steel or stainless steel. Depth of crown: $\frac{1}{2}$ ", $1\frac{1}{8}$ " on centers.



ROLLING STEEL FIRE DOORS

700 SERIES

700 Series (Face Mounted)

Width A	HEIGHT B (OPENING HEIGHT)															
	9'0"				TO 14'0"				TO 18'0"				TO 24'0"			
	BRACKET SIZE		SIDE ROOM		BRACKET SIZE		SIDE ROOM		BRACKET SIZE		SIDE ROOM		BRACKET SIZE		SIDE ROOM	
	X	Y	R	L	X	Y	R	L	X	Y	R	L	X	Y	R	L
2" SLAT																
TO 20'0"	16-1/2"	15"	10"	6"	18-1/2"	17"	10"	6"	20"	19"	10"	6"	22"	21"	10"	6"
3" SLAT																
TO 24'0"	16-1/2"	15"	10"	6"	20"	19"	10"	6"	22"	21"	10"	6"	24"	23"	10"	6"

700 Series (Between Jambs Mounted, Under Lintel)

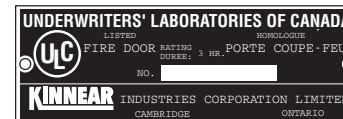
Width A	HEIGHT B (OPENING HEIGHT)															
	9'0"				TO 14'0"				TO 18'0"				TO 24'0"			
	BRACKET SIZE		SIDE ROOM		BRACKET SIZE		SIDE ROOM		BRACKET SIZE		SIDE ROOM		BRACKET SIZE		SIDE ROOM	
	X	Y	R	L	X	Y	R	L	X	Y	R	L	X	Y	R	L
2" SLAT																
TO 20'0"	16-1/2"	15"	7-1/6"	9-1/6"	18-1/2"	17"	7-1/6"	9-1/6"	20"	19"	7-1/6"	9-1/6"	20"	19"	7-1/6"	9-1/6"
3" SLAT																
TO 24'0"	16-1/2"	15"	7-1/6"	9-1/6"	18-1/2"	17"	7-1/6"	9-1/6"	22"	21"	7-1/6"	9-1/6"	24"	23"	7-1/6"	9-1/6"
20'0" TO 24'0"	16-1/2"	15"	7-1/2"	10-1/4"	18-1/2"	17"	7-1/2"	10-1/4"	22"	21"	7-1/2"	10-1/4"	25"	25"	7-1/2"	10-1/4"

NOTE: Dimensions are for general reference only and not for construction purposes.

The Door & Access Systems Manufacturers Association (DASMA) supports periodic inspection of Fire Door assemblies as stated in the National Fire Protection Association Standard 80.

ULC Form for Rolling Fire Door No. 700. Includes fields for Fire Rating (hrs), Serial Number, and Manufacturer (Wayne Dalton).

ULC Form for Overlaid Rolling Fire Door No. 700. Includes fields for Fire Rating (hrs), Serial Number, and Manufacturer (Wayne Dalton).



FACTORY MUTUAL



COMMERCIAL DOORS & OPERATORS

ROLLING STEEL FIRE DOORS

FIRESTAR™ 700 SERIES

Note to specifiers: Words in brackets indicate frequently specified and highly recommended options.

PART I – GENERAL

1.01 Work Included

- A. The opening will be equipped with Wayne-Dalton 700 Series rolling doors.

1.02 Related Work

- A. Opening preparation, miscellaneous or structural metal work, access panels, finish or field painting, field electrical wiring, wire, conduit, fuses, and disconnect switches are in the Scope of Work of other divisions or trades.

1.03 Reference Standards

- A. **ANSI/DASMA 204** – American National Standards Institute Specifications for rated fire rolling doors published by Door & Access Systems Manufacturers Association International.
- B. **ASTM A 123** – Zinc [hot-dipped galvanized] coatings on iron and steel products.
- C. **ASTM A229** – Steel wire, oil-tempered for mechanical springs.
- D. **ASTM A-653-94** – Steel sheet, zinc-coated [galvanized] by the hot-dipped process, commercial quality.
- E. **UL10B** – Underwriters' Laboratories (UL) Fire Tests of Door Assemblies
- F. **NFPA 80** – National Fire Protection Agency – Fire Doors and Other Opening Protectives

1.04 Quality Assurance

- A. Rolling doors and all accessories and components required for complete and secure installations shall be manufactured as a system from one manufacturer.

1.05 Systems Description

- A. Rolling Door: Type: **Model 700**
- B. Mounting: [steel][masonry][drywall over minimum 1/2-gauge steel studs or wood studs] jambs
- C. Operation: [chain hoist] [motor] [motor with chain hoist]
- D. Material: Galvanized steel with polyester finish paint

1.06 Submittals

- A. Shop Drawings: Clearly indicate the following:
 - 1. All details required for complete operation and installation.
 - 2. Hardware locations.
 - 3. Type of metal and finish for door sections.
 - 4. Finish for miscellaneous components and accessories.
- B. Product Data: Indicating manufacturer's product data, and installation instructions.

1.07 Delivery, Handling, Storage

- A. Deliver products in manufacturer's original containers, dry, undamaged, seals and labels intact.
- B. Store and protect products in accordance with manufacturer's recommendations.

1.08 Warranty

- A. Standard manufacturer's one year warranty against defects in material and workmanship.

PART II – PRODUCTS

2.01 Curtain

- A. Curtain will be composed of interlocking curved [flat] slats [22, 20, 18 gauge galvanized steel] [22, 20 stainless steel] slats, roll-formed per ASTM standards. Ends of alternate slats will be fitted with metal endlocks.

- B. Bottom Bar will consist of two equal steel [stainless steel] angles, .121" minimum thickness, to stiffen curtain, with optional astragal. When required for additional security, provide [slide bolts] [cylinder locks] on the bottom bar operable from [coil side] [both sides].

2.02 Guides

- A. Guides will be roll-formed steel structural grade, three angle assembly of steel [stainless steel] to form a slot of sufficient depth to retain curtains in guides and to allow expansion at all bolt connections. (Perimeter brush seals may be installed to reduce smoke/air infiltration around door opening)

2.03 Brackets

- A. Brackets will be of 3/16" [1/4"] minimum thick steel plates, with permanently sealed ball bearings. Designed to enclose ends of coil and provide support for counterbalance pipe at each end.

2.04 Counterbalance

- A. Curtain to be coiled on a pipe of sufficient size to carry door load with deflection not to exceed .033" per foot of door span and to be correctly balanced by helical springs, oil tempered torsion type. Cast iron barrel plugs will be used to anchor springs to tension shaft and pipe.

2.05 Hood

- A. Hood will be minimum 24-gauge [galvanized] [stainless steel] sheet metal, flanged at top for attachment to header and flanged at bottom to provide longitudinal stiffness. Hood will enclose curtain coil and counterbalance mechanism. All FM hoods will be furnished with a steel hood baffle.

2.06 Finish

- A. Shop coat of rust inhibitive primer on non-galvanized surfaces and operating mechanisms. Guides and bracket plates will be coated with a flat black prime paint. Stainless steel finish available. Curtain color will be [white] [blue] [gray] [beige] [brown] [white, blue, beige, brown only available as 22 gauge]. Powder coating is available in 180 colors.

2.07 Operation

- A. Door will be operated by means of [chain hoist with gear drive reduction] [motor operation]. Optional [electrical] [pneumatic] sensing edge to be attached to bottom bar to [stop] [stop and reverse] the door when it contacts an object during the closing cycle.

2.08 Release Mechanism

- A. Doors will be equipped with FireStar release mechanism, requiring only one cable to be routed to the operated side (cable not required to be routed to adjusting wheel side.) Doors will close by a thermally actuated link rated at 165 degrees F, or by an optional listed releasing device, or by manually operating the release handle. All spring tension shall be maintained when the release mechanism is activated. After closing by manual operation of release handle, the door shall be able to be reset by one person from one side of the door (re-engaging the release handle).

2.09 Governor

- A. If required by the size of the door, a viscous governor will be furnished to regulate the rate of descent of the door in a quiet manner. It will be the engagement type which is not engaged during normal door operation, but which after cable release, will retard the speed during automatic door closure to under 2' per second and not less than 6" per second.

2.10 Labels

- A. Rolling fire doors will bear the 3/4 (three-quarter) hour, 1 1/2 (one and one-half) hour, 3 (three) hour or 4 (four) hour label provided they are <= 12' high, <= 13'6" wide. They will bear an oversize tag if they are over 12' high or 13'6" wide. Rolling fire doors will be manufactured in strict accordance with the requirements of Underwriters Laboratories-listed procedures or Factory Mutual-approved procedures, and will bear the UL or FM label (tag). FM label is available for the 3-hour fire door only.

2.11 Locking

- A. [Chain-hoist door will have chain keepers suitable for padlocks by others.] [Electric-motor operation doors will lock through the operator gearing.] [Cylinder locks can be provided with the doors.]

Note: When specifying locks on electric-motor operated doors, electric interlocks should also be specified to prevent operation when lock bolts are engaged in the guides, thus preventing damage to the curtain and/or operator.

PART III – EXECUTION

3.01 Installation

- A. General:
 - 1. Install the rolling fire doors in accordance with Wayne-Dalton Corp. instructions and standards and in accordance with the standards of the National Fire Protection Association Standard 80 (NFPA 80). Installation and annual maintenance will only be by a trained door systems technician.
 - 2. Verify that existing conditions are ready to receive rolling door work.
 - 3. Beginning of rolling door work means acceptance of existing conditions.
 - B. Fit, align, and adjust rolling door assemblies level and plumb for smooth operation.
 - C. Upon completion of final installation, lubricate, test and adjust doors to operate easily, free from warp, twist or distortion and fitting for entire perimeter.
- Note:** Architect may consider providing a schedule when more than one rolling door or opening type is required.

3.02 Testing

- A. Rolling steel fire doors will be drop-tested in accordance with NFPA 80 and witnessed, attesting to their successful operation at the time of installation.

3.03 Maintenance

- A. Per NFPA 80, paragraph 15-2.4.3: All horizontal or vertical sliding and rolling fire doors shall be inspected and tested annually to check for proper operation and full closure. Resetting of the release mechanism shall be done in accordance with the manufacturer's instructions. A written record shall be maintained by the building owner and made available to the authority having jurisdiction.

Because of continuing product improvements, we reserve the right to change the product specifications and designs without prior notice.

Distributed By:



COMMERCIAL DOORS & OPERATORS

For technical information, visit:

www.wayne-dalton.com/commercial

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