

Wayne-Dalton Corp. Coiling Doors & Grilles

Akbar Door Specifications

08330/WAY - BuyLine 1720

Note to specifiers: Words in parenthesis indicate options that need to be specified.

PART I- GENERAL

1.01 Work Included

A) The steel rolling automatic fire doors will be Wayne-Dalton Akbar 89 as manufactured by Wayne-Dalton Corp.

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.

PART II- PRODUCT

2.01 Curtain

A) Curtain will be composed of interlocking curved slats rolled from galvanized and bonderized steel per ASTM standards. Size and gauge of slats to be as required by Underwriters Laboratories to meet their standards for labeled constructed fire doors. Malleable iron or stamped steel alternate endlocks. Bottom bar will be reinforced with two steel angles of equal size and weight bolted together. (Astragal available to assist in cushioning and sealing bottom of door).

2.02 Guides

A) Guides will be of steel angles so as to provide track in which curtain can travel and for expansion at all bolt connections. Optional perimeter seals can be installed to reduce air infiltration around door opening.

2.03 Brackets

A) Brackets will be of precision formed plate, 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 .03 inches per foot of door span and to be evenly balanced by helical springs, oil tempered torsion type designed with a 25% safety factor. 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 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. Hoods can be furnished with flame baffle controlled by fusible link, and designed to close against coil in the event of fire to reduce flame and smoke spread.

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.

2.07 Operation

A) Doors will be operated by means of [(manual, push-up) (chain hoist with gray cast iron gears) (awning crank) (wall crank box) (motor operation)].

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2.08 Automatic Closing Device

A) Automatic Closing Device will be thermally actuated by means of a fusible link rated @ 165 degrees.

2.09a. Mechanical Governor

A) Mechanical governor will be furnished to regulate the rate of descent of door. It will be the escapement type which is inoperative during normal operation, but which will retard the speed during automatic operation to under 2' per second.

2.09b. Viscous Governor

A) An optional viscous governor can be installed. It is inoperative during normal operation. When engaged, it will retard the speed during automatic operation to under 2' per second.

2.10 Label

A) Rolling fire doors up to 162 sq. ft. and 13'-6" in width x 12'-0" height will bear a UL (3/4, 1-1/2, 3, 4) hour rating label, depending on mounting conditions. Rolling fire doors over 162 sq. ft. and up to 36' in width or 28' height will receive a UL oversize fire door label. Rolling fire doors will be manufactured in strict accordance with the requirements of Underwriters Laboratories-listed procedures, and will bear their label. Factory Manual-approved procedures, standard 4100 (1990) label (144 sq. ft. with max. 12'-0" height or 12'-0" width) or oversize label (324 sq. ft. with max. 18'-0" width or 18'-0" height) is available.

PART III- EXECUTION

3.01 Installation

A) Installation 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 Pamphlet #80 (NFPA 80). Installation will only be by an authorized Wayne-Dalton representative.

3.02 Testing

A) Rolling steel fire doors will be tested 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 and be made available to the authority having jurisdiction.