

Wayne-Dalton Corp. Coiling Doors & Grilles

Titan™ Rolling 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 Titan rolling doors will be 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 galvanized steel interlocking Titan slats rolled in easy curves without sharp bends. Slats will be [(#18) (#14)] gauge with a minimum height of 6" and a minimum crown depth of 1-3/8". Slats are to be equipped with metal windlocks to prevent lateral movement of the slats. Windlocks made of galvanized malleable iron will act as a wearing surface in the guides. Each windlock will be bolted securely to the slat with four galvanized carriage bolts. The bottom of each curtain will be reinforced with two steel angles of equal size, not less than 2-1/2" x 2" x 3/16". A replaceable looped neoprene astragal will provide a continuous contact with the sill.

2.02 Guides

A) Door guides are to be constructed of structural steel angles of 1/4" minimum thickness assembled to form a groove of 4" minimum depth. Guides are to have auxiliary locking channels or bars to engage the curtain windlocks under wind pressure. Guides will be securely bolted to the opening jambs with 1/2 inch bolts spaced not more than 24" on centers.

2.03 Brackets

A) Supporting brackets will be 3/8" minimum steel plate with flanges for support of the hood. Bearings will be of the permanently lubricated ball bearing type to insure free travel of the inner door shaft.

2.04 Counterbalance

A) The curtain will be counterbalanced by means of helical torsion springs fixed at each end to tapered cast iron anchors designed to eliminate concentration strain. Springs will be high grade steel, oil tempered and heat treated, with the capacity to counterbalance the entire weight of the curtain assembly plus a safety factor of 25 percent. The spring anchors will transfer the full spring load to a single torsion shaft so that all of the springs will be adjusted simultaneously and equally by means of the charging wheel. The spring counterbalance will be housed in a steel pipe, permanently lubricated, and sealed with steel or cast iron plugs at each end. The pipe of suitable diameter and wall thickness will be such that the deflection of the assembly under curtain load shall not exceed .03" per foot of span.

2.05 Hood

A) Enclosing hoods of not less than #24 gauge galvanized steel will run continuously between brackets, with intermediate supports as required.

2.06 Finish

A) Curtain and hoods will be galvanized per current ASTM standards, then be phosphate coated for

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paint adhesion. All parts of the doors, except bearing surfaces and galvanized surfaces, will be given one coat of rust inhibitive primer. Curtains and hoods also available galvanized not primed. Primer on galvanized steel curtain slats and hood will be one coat of epoxy with top coat of grey polyester enamel.

2.07 Operation

A) Chain operated doors will be provided with reduction gears, sprocket, and galvanized hand chain. Reduction gearing is to be such that the maximum pull on the hand chain does not exceed 35 pounds. Doors indicated on the drawings to be motor operated will be provided with a motor unit of sufficient capacity to operate the door at an average speed of .50 ft. per sec. Motor operated will be complete with worm gear reduction unit, emergency hand chain, high starting torque motor, geared limit switch which is not affected by use of emergency chain operation, and a floor engaged interlock to prevent electrical operation during emergency chain operation. Operator design will permit motor removal without affecting hand chain operation. Each operator is to be furnished with a reversing magnetic contractor; push button station marked "open," "close," and "stop," operating at 24 volt secondary voltage.

2.08 Locking

A) Chain operated doors will be provided with chain lock keeper on the guides with provision for padlocking. Motor operated doors will be self-locking thru operator brakes and worm gear reducers. CAUTION: When specifying slide bolts or cylinder locks on electric-motor doors, electric interlocks should also be specified to prevent operation when lock bolts are engaged in the guides.

PART III- EXECUTION

3.01 Installation

A) Install the doors in accordance with Wayne-Dalton Corp. instructions and standards. Installation will be by an authorized Wayne-Dalton representative