SPECIFICATIONS, SOUTHWESTERN MODEL 3200 FIRE DOOR

Rolling Fire Doors shall be as manufactured by Southwestern Steel Rolling Doors, Dallas Texas.

WORK INCLUDED:

All Rolling Fire Doors shall be constructed in accordance with Underwriters' Laboratories specifications and shall be furnished with a 3-hour, Class A, Underwriters' Laboratories Label , or an Underwriters' Laboratories Certificate for oversize doors.

WORK NOT INCLUDED:

Structural or miscellaneous iron work, or preparation of openings to receive doors. Field painting after erection.

OPERATION:

Door shall be chain-operated by reduction gears and galvanized hand chain.

AUTOMATIC CLOSING:

The door shall be designed to close upon release of a fusible link. Rate of descent of the curtain shall be governed to be within limits established by Underwriters' Laboratories procedure. Reset after automatic closing shall not require any action other than reset of the fusible link.

CURTAIN:

Curtain shall be made of interlocking roll-formed slats, fabricated of cold-rolled steel, hot-dipped galvanized G90 (1.25 oz. of zinc per sq. ft. of flat metal per ASTM standards). Curtain thickness shall be not less than 20-gauge and not less than specified by Underwriters' Laboratories procedure. Curtain slats shall have continuous end locks. Bottom of curtain shall be reinforced with two steel angles, mounted back to back, with thickness not less than 1/8" and not less than established by Underwriters' Laboratories procedure.

GUIDES:

Door guides shall be fabricated of structural steel angles not less than 3/16" thick. Angles shall be bolted together to form a channel guide for curtain. Guides shall be fastened to wall by bolts not less than 3/8" diameter, spaced not more than 18" on centers. Guide channels shall have adequate clearance to allow for thermal expansion of the curtain as specified by Underwriters' Laboratories procedure.

BRACKETS:

Brackets shall be constructed of steel plate not less than 1/4" thick, shall be of sufficient thickness to support weight of curtain and barrel assembly, and shall be designed to form an end closure for hood. Minimum size of mounting bolts shall be in accordance with Underwriters' Laboratories procedure.

BARREL:

Barrel shall be of steel pipe of adequate size to carry door weight with deflection not to exceed .03 inches per foot of door width. Barrel shall enclose the counterbalance torsion spring assembly. Spring tension shall be adjustable by exterior adjusting wheel accessible without removing hood. Barrel shall be supported at each end by permanently grease-sealed ball bearings.

HOOD:

Hood shall be constructed of cold-rolled sheet steel hot-dipped galvanized G90 (1.25 oz. of zinc per sq. ft. of flat metal per ASTM standards). Hood thickness shall be not less than 24-gauge and not less than specified by Underwriters' Laboratories procedure. Hood shall be formed to fit contour of curtain roll. Hood shall be reinforced at top and bottom edges with 1/8" minimum thickness steel angles.

WIND LOAD:

Door shall be designed for a wind load test pressure of 32 psf (1532 Pa), corresponding to 1.5 times a design pressure of 21.3 psf (1021 Pa).

FINISH:

Curtain and hood shall be hot-dip galvanized G90 (1.25 oz. of zinc per sq. ft. of flat metal per ASTM standards) and shall have a two-coat baked-on prime finish. All other parts except faying surfaces shall have one coat of shop primer.

ERECTION:

All doors shall be installed by the manufacturer or authorized dealer specializing in the sale, service, and installation of rolling steel doors.

GUARANTEE:

All material and workmanship shall be guaranteed for a period of one year from installation date.

SHOP DRAWINGS:

Shop drawings shall be submitted to architect for approval before fabrication of doors.