

## Model FS500 - Rolling Steel Fire Shutter

### Part 1 - GENERAL

#### 1.01 DESCRIPTION

**A. Type:** Rolling Steel Fire Shutter to be manufactured by Asta Door Corporation. Rated for 3/4hr, 1-1/2hr and 3hrs.

**B. Operation:** Manual push-up operation standard through ten feet wide. Awning crank available for all sizes.

**C. Mounting:** to be interior face mounted on a prepared opening.

#### 1.02 RELATED WORK

**A.** Opening preparation, access panels, finish or field painting are in the scope of the work of other sections or trades.

### Part 2 - PRODUCT

#### 2.01 CURTAIN

**A. Curtain:** Interlocking curtain slats roll-formed from 22 gauge galvanized steel. Lateral slat movement and curtain wear controlled by galvanized malleable cast endlocks fastened to every other slat. Flat slats, (FS) cover 1-1/2" high by 1/2" deep.

**B. Bottom Bar:** Fabricated from hot-dipped galvanized steel or (Optional) stainless steel angle bolted to curtain.

#### 2.02 BARREL ASSEMBLY

**A. Barrel:** Fabricated from minimum 4-1/2" O.D. pipe. Deflection under full load not to exceed 0.03" per foot of span. Barrel provided with threaded rings or lugs welded to the barrel assembly for curtain attachment.

**B. Springs:** Spring tension end of the barrel assembly fabricated with self-aligning ball bearing bearing assembly. Curtain weight counterbalanced by oil-tempered, helically wound torsion springs, greased packed and mounted on steel torsion shaft.

#### 2.03 HEAD PLATES

**A. Head Plates:** Headplates for mounting curtain, hood and barrel assemblies fabricated from minimum 1/4" steel plate. Drive side of barrel to be provided with precision sealed ball bearing in cast iron housing.

#### 2.04 OPERATION

**A. Drive:** Manual push-up operation standard through ten feet wide. Awning crank available for all sizes.

#### 2.05 RELEASES

**A. Releases:** 165-degree fusible links provided (standard). Fail-safe time delay releases, smoke detectors, audible and visual warning devices (option). Closing speed regulated by viscous governor. Closing speed to be between 6" to 24" per second per *NFPA 80*.

#### 2.06 GUIDE ASSEMBLY

**A. Guides:** Boxed shaped guides fabricated from 11 gauge steel or #4 polished stainless steel with integral bell mouths and curtain stops.

#### 2.07 HOOD

**A. Hood:** Fabricated from minimum 24 gauge galvanized steel sheet shaped to fit within the headplates. Intermediate hood support (s) furnished as required.

#### 2.08 LOCKING

**A. Locking:** Manual push-up doors furnished with interior slide bolts locks with padlock provision standard.

#### 2.09 FINISH

**A. Surfaces:** Curtain slats and hood are hot-dipped galvanized, per *ASTM A653 A*, with baked on epoxy primer and polyester finish coat available grey and white or powder coating (optional). Guides and headplates shop painted medium gloss black. Stainless steel shutter curtain, guides, hood, and bottom bar furnished #4 polished finish. Powder coating available for all steel painted components.

### Part 3 - EXECUTION

#### 3.01 INSTALLATION

**A. Installation:** Asta Door Corporation Doors shall be installed and adjusted by authorized representative according to Asta Door Corporation standards and instructions. *NFPA 80* and model groups, mandate annual inspection and drop testing of fire doors to check for proper operation and full closure.