



1. GENERAL

1.1 Summary:

1.1.1 Work included

Supply and install model **Counter Shutter** by MobilFlex (1-800-501-3539) rolling security closure, aluminum overhead rolling security grille.

1.1.2 Submittals

Submit manufacturer's product data, specifications, installation instructions, shop drawings with layout, fabrication and installation details and samples, including finish.

1.1.3 Quality assurance

1.1.3.1 Provide components from a single manufacturer with resources to provide consistent quality in appearance.

1.1.3.2 Use manufacturer-approved installers.

1.1.3.3 1 year guarantee on parts and labor.

1.1.4 Site requirement:

1.1.4.1 A 5" (127mm) wide opening full width of the closure shall be made in the ceiling to allow easy operation. A 24" x 24" (610mm x 610mm) access panel under charging wheel shall be supplied by other trade in the ceiling.

1.1.4.2 Building structure shall be accessible to allow support structure installation.

2. PRODUCTS

2.1 Manufacturer:

MobilFlex Folding & Rolling Closures inc
Tel: 1-800-501-3539
Fax: 1-800-470-3539
www.mobilflex.com

2.2 Rolling security closure

Counter Shutter (solid aluminum slats) model by MobilFlex (1-800-501-3539). Curtain shall be constructed of interlocking extruded aluminum slat sections. Each slat shall be made of continuous 0,050" (1.3mm) thick aluminum extrusion, 1 1/2" (38mm) high by 3/8" (9.5mm) deep.

2.2.1 Guides:

Vertical curtain guides are to be of extruded aluminum 1 1/4" (32mm) wide x 2" (51mm) deep with nylon brush seal to allow smooth operation. Top stoppers to be installed on each guide to stop upward movement of curtain at secured position. Guides to be fastened to wall construction and building framing.

2.2.2 **End Plates:**

Provide steel plates not less than 3/16" (5mm) thick (with dimensions appropriate to coil size) to support the ends of the barrel assembly with sealed, self-aligning shaft bearings. End plate assembly to be attached to guides.

2.2.3 **Barrel:**

Minimum 4 1/2" (114mm) diameter x 1/8" (3mm) wall steel pipe barrel will be designed to carry curtain load with a maximum allowable deflection of 0.03" per foot of closure width (2.5mm per linear meter in width). Barrel to house a torsion spring counter-balance assembly to counter-balance the curtain.

2.2.4 **Counter Balance:**

Oil tempered, helical torsion spring(s) pre-lubricated and secured around a continuous, solid, cold rolled steel inner shaft will act as counter balance within barrel. Shaft will bear on self-aligning, permanently lubricated ball bearing assemblies. Counterbalance assembly to be designed for a minimum life of 20,000 cycles. Spring to be site tensioned by attached accessible charging wheel.

2.2.5 **Manually Operated:**

Closure to be manually operated push up, pull down with removable retrieval rod as standard. The effort to raise or lower the closure shall not exceed 15 pounds (7kg) force. *(Optional but not recommended, hand crank with removable crank handle).*

2.2.6 **Bottom Bar:**

Tubular extruded aluminum section, 1 1/4" (32mm) wide by 2" (51mm) high. Bottom bar to house lock mechanism. Center lock mechanism to be 2-point deadlock which activates 5/16" (8mm) steel lock bars at each end. Standard MobilFlex cylinders operable from one or both sides. Removal of bottom bar not necessary to change the cylinders.

2.2.7 **Cylinders:**

Locking bottom bar to be equipped with MobilFlex 1" (2.5mm), 5 pin mortise cylinder. *Please choose:* 1 cylinder (inside or outside) or 2 cylinders.

2.2.8 **Material & finish:**

Standard aluminum 6063-T5 shall be clear anodized finish.

Option

2.2.9 **Hood:**

Supply a 2, 3 or 4 sides *(please choose)* 0.040" (1mm) aluminum clear anodized hood to cover barrel and rolling grille.

3 EXECUTION

3.1 **Inspection**

The installer shall verify that the opening dimensions are as shown on MobilFlex's shop drawing(s) prior to proceeding with the installation. Check condition of vertical grille guides for damage or pinching by recessing materials or other trade's fasteners driven into guide extrusions. The installation will be completed as soon as the site conditions respect the manufacturer's recommendations.

3.2 **Installation of rolling security closure:**

3.2.1 Installation shall be by an installer approved and trained by the manufacturer in strict accordance with installation guide.

3.2.2 Explain and review the correct locking, operation and maintenance of the rolling security closure.

END OF SECTION 08330