

## EMERGENCY RESPONSE

# Fire-Rated Counter Shutters

### MODEL ERC10



Fire-rated rolling counter shutters, also known as fire-rated counter doors, secure openings using smaller (and more aesthetically pleasing) guides, slats, brackets and hoods than traditional rolling fire doors. Rated counter shutters protect interior corridors and create barriers for openings where life safety is a priority and can fully close to the floor when compact door components are desired.

#### Fire-Rated Counter Shutters:

- + Built to order. Fits specific dimensions up to 16' W x 7' 6" H or 12' W x 10" H
- + Push-Up, Motor, Tube Motor or Crank available
- + Use in rated walls: masonry or drywall with metal or wood studs
- + ¾, 1, 1½, 3 hour UL label available

#### OPERATION:

**FireGard™** operated counter fire shutters are activated by fusible link and are appropriate when connection to an alarm system or local detector is not required. Spring tension is not released upon activation, and chain, crank and motor operation is available.

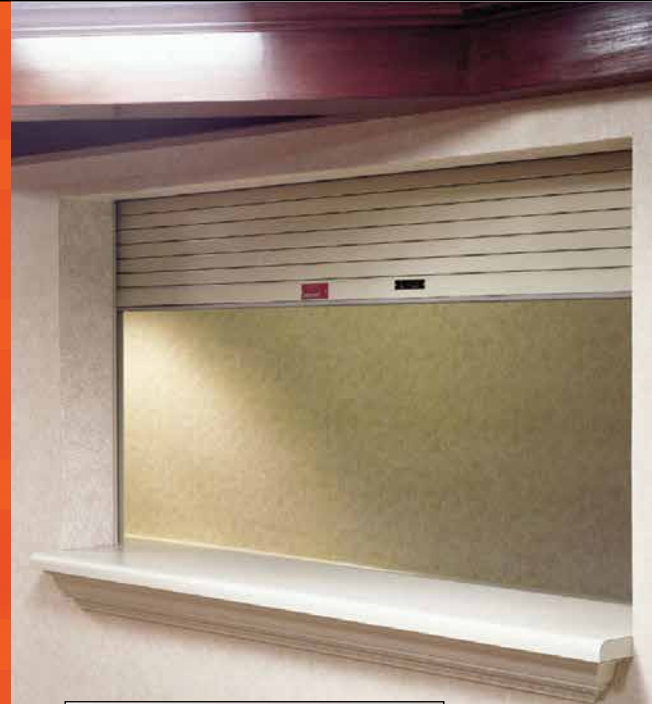
**M100™** operated counter fire shutters are activated by alarm or local detectors and directly wired into the building's systems. Available in chain, crank and motor operated units, M100 operated counter fire shutters will automatically close during alarm activation at a controlled rate not to exceed 12" per second. This type of operation is recommended for applications requiring frequent testing or when it is difficult to access the operating mechanism.

**M100 Tube Motor** operated counter fire shutters are also activated by alarm or local detectors and directly wired into the building's systems. Tube motors are concealed in the counter fire shutter's shaft assembly, ideal for openings with tight clearances. The operator and drive components are neatly concealed, avoiding the need for bulky covers. Spring tension is not released upon activation, which means simple closing system testing and resetting.

#### ADDITIONAL CONFIGURATIONS & OPTIONS:

Fire rated counter shutters are also available with a factory-welded, **integral frame and sill configuration** to provide a custom, built-in look. Simplified construction of integral frame units makes for fast and easy installation, saving time and money for contractors and building owners. ¾, 1 or 1½ hour labels available with integral frame and sill units.

Optional **SmokeShield® smoke and draft control** is designed and tested to slow oxygen to the fire source and contain harmful smoke.



Rated Counter Shutter with SmokeShield® Draft and Smoke Control (top)

Rated Counter Shutter (middle)

Rated Counter Shutter with Integral Frame and Sill with SmokeShield Draft and Smoke Control (left)

## BENEFITS

- + Most standard counter fire shutters ship within in one to two weeks
- + UL Labeled: up to 3 hours
- + Size Flexibility: Each unit is built to exact opening size requirements
- + Compact Storage: Curtain wraps in coil supported by side guides
- + Durability: Commercial duty design; little to no routine maintenance

## APPLICATIONS

- (fire rated walls)
- + Cafeterias
- + Educational Facilities
- + Healthcare Facilities
- + Hospitality/Public Spaces

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# COMPONENTS

## Brackets

Minimum 12 ga. steel plates bolted to guide assembly and support the counter balance shaft and curtain  
**Standard Material & Finish:** Steel with SpectraShield® powder coating in gray or tan

## Hood

Protective sheet metal enclosure for the curtain that provides fire resistance at the head of the unit and keeps the brackets rigid  
**Standard Material and Finish:** Galvanized steel with exclusive GalvaNex™ finish in light gray or tan or stainless steel with #4 finish

## Counterbalance Shaft

3" minimum diameter outer shaft and 3/4" minimum inner shaft. This assembly supports the curtain and contains counterbalance torsion springs for assisting operation.  
**Standard Material:** Steel

## Operation

Push-up operation shown. Hand crank, motors and tube motors are available. Doors operate by rotating the shaft gear end. The opposite end of shaft applies spring tension and is equipped with a spring adjusting wheel.

## Guides

Side rail assemblies that bolt to the wall (maximum 18" bolt spacing as per UL procedure) and support the entire weight of the unit  
**Standard Material & Finish:** Steel with SpectraShield powder coating in gray or tan with galvanized steel curtains or #4 finish stainless steel with stainless steel curtains. Additional trim piece for Between Jamb Mounted guides available for enhanced aesthetics.

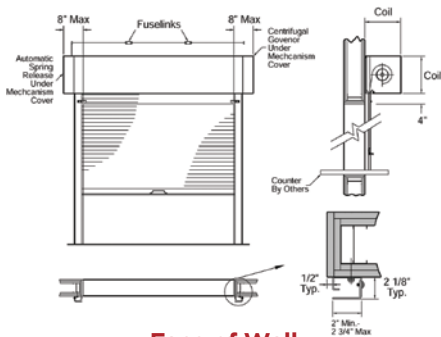
## Curtain

Interlocking roll formed flat-faced 1 1/2" high slats with galvanized steel endlocks riveted to ends of alternate slats to maintain curtain alignment and prevent wear  
**Standard Material & Finish:** 22 ga. galvanized steel with exclusive GalvaNex™ finish in gray or tan or 22 ga. stainless steel, #4 finish

## Bottom Bar

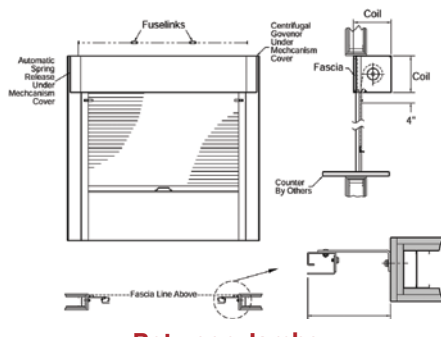
Equipped with vinyl astragal/weather seal to cushion the contact point on the counter. Includes optional locking mechanisms: Slide bolts available on angle bottom bars only; Cylinder and thumb locks available on tubular style bottom bars only. Extruded tubular bottom bar shown.  
**Standard Material & Finish:** Clear anodized extruded aluminum for aluminum and galvanized curtains or stainless steel #4 finish for stainless steel curtains  
**Optional Material:** Galvanized steel

## MOUNTING & CLEARANCES



### Face of Wall

Maintains clearance of full opening, minimal exposed components



### Between Jambs

Mounts within the opening, fascia (front hood closure piece) required

Counter Fire Shutters are built to order to fit openings up to 16' wide when height is 7' 6" or less or openings up to 12' wide when height is 10' or less. Coil sizes range from 8" to 14" depending on unit size, material and operation. Consult factory when coil size is critical.

## SPECIAL FEATURE OPTIONS

**+ UL 1 1/2 Hour Labeled Countertops:** Plastic laminate countertops are available in a range of standard laminates in a single piece up to 10' wide, and in two pieces with center joint to 16' wide. 14 ga., #4 finish stainless steel countertops are custom designed to a maximum wall opening width of 11'2" for face of wall units, 11'10" for between jambs, for a maximum 12" wall thickness.

**+ Battery Backup Devices** prevent the door from closing due to a power failure for a minimum of 4 hours. M100 operators also function as a DC power source for local warning devices and detectors to keep them functioning during a power outage.



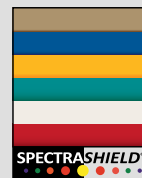
**Annunciators** provide a visual and/or audible advanced warning when the fire shutter is about to close. These safety devices can be activated upon alarm signal or loss of power when supported by a battery backup device.

- + SmokeShield® smoke and draft control**
- + UL 325 compliant ELR sensing edge** for motorized units
- + Operator covers** for exterior mounted units or exposed operators
- + Cylinder or slide bolt locking**
- + Sill angles**

## OPTIONAL FINISHES

- + Powder coat finish** in selected color
- + Zinc Rich Gray corrosion resistant powder coating**
- + Hot-dip galvanizing** on steel components

## SPECTRASHIELD® POWDER COAT FINISH



Cornell's SpectraShield Powder Coat Finish in a choice of 188 colors adds durability and aesthetic value. Surface preparation and coating process produces a smooth, lasting finish at controlled costs.

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