

# CORNELL

## Counter Fire Doors Model ERC10

### Practical Design Applications (for fire rated walls)

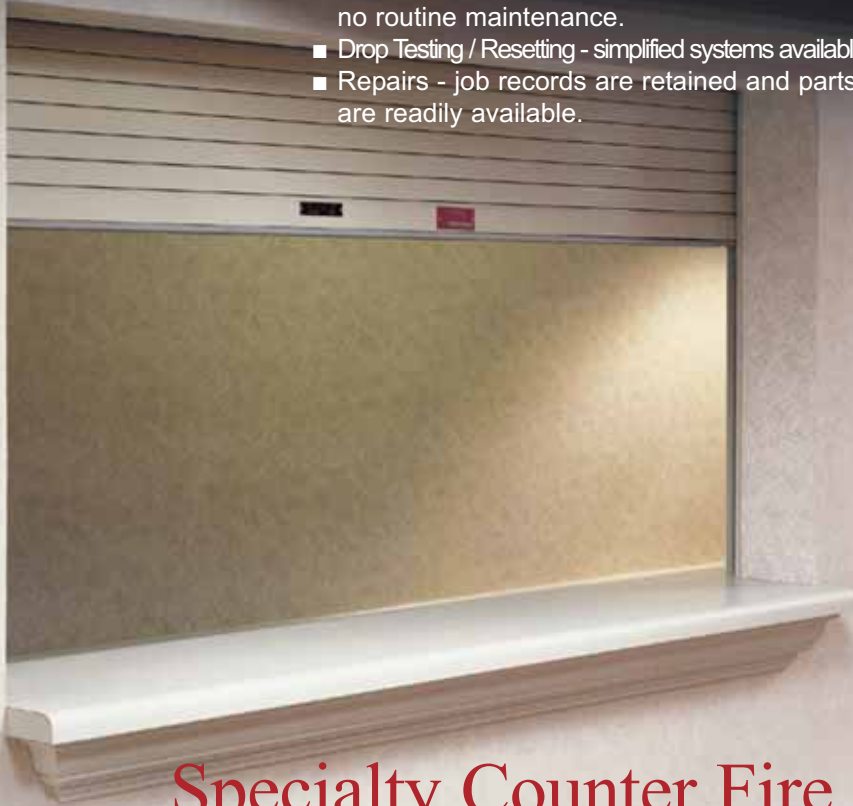
- Service Window Openings
- Cafeterias
- Healthcare Facilities
- Educational Facilities
- Hospitality/Public Space

### Benefits

- Cornell can manufacture and ship most standard counter fire doors in one to two weeks.
- UL Labeled - 3, 1 1/2, 1 and 3/4 hour labels.
- Wall Construction - UL approved for mounting to rated drywall, masonry or steel walls.
- Size Flexibility - each unit is built to exact opening size requirements.
- Compact Storage - curtain stores in an overhead coil that is totally supported by the side guides.
- Durability - commercial duty design, little to no routine maintenance.
- Drop Testing / Resetting - simplified systems available.
- Repairs - job records are retained and parts are readily available.

### Available Options

- UL labeled stainless steel or plastic laminate countertops
- Advanced Fire Door Closing Systems
- Mechanical releasing devices
- Annunciators
- LEED® Calculations
- Cylinder or slide bolt locking
- Bottom bar sensing edge for motorized units
- Operator covers for exterior mounted units or exposed operators below 8'-0" high
- Sill angles



## Specialty Counter Fire Doors



### SmokeShield® Model ERC11

Add protection against the loss of life in addition to property protection from fire by adding tested and UL labeled smoke and draft control protection with SmokeShield. Units are tested per UL 1784 and meet building code and NFPA air leakage criteria. Available on units up to 16' wide when height is 7' 6" or less, and units to 12' wide when height is 10' or less. They can come to rest on a countertop or run full opening height and stop at the floor.



### Integral Frame, Countertop Units Model ERC20

With frame and countertop included, these units are ready for mounting into masonry or rated dry wall openings with wall thickness ranging from 4 1/2" to 12" thick. Frames are 16 ga. stainless or steel material, sills are 14 ga. stainless material. Stainless steel is 300 series #4 finish, steel frames are powder coated. UL 1 1/2 hour labeled, manual push-up standard or tube motor operated. Available up to 10' 0" wide and 4' 9" high. UL "S" label available.



### M100 Tube Motors

Provide all the benefits of M100 FireGard Closing Systems in a solution for strict dimensional limitations around the header or aesthetic requirements that lend themselves to its smaller, compact design. Push up or M100 motor, chain, or crank designs also available based on size and weight.



M100 Tube Motors protected by patent # 6155324

# Counter Fire Door Components

**Brackets**  
Minimum 12 gauge steel plates that bolt to guide assembly and support the counter balance shaft and curtain.

**Standard Material & Finish:** steel, with SpectraShield® powder coating Cornell gray or tan

**Counter-balance Shaft**  
3" minimum diameter outer shaft and 3/4" minimum inner shaft. This assembly supports the curtain and contains counter-balance torsion springs for assisting operation.

**Standard Material:** steel

**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

**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 Cornell gray or tan with galvanized steel curtains or #4 finish stainless steel with stainless steel curtains

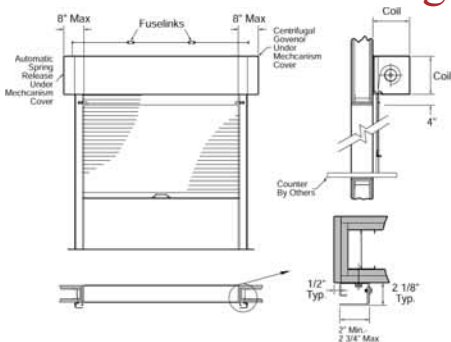
**Bottom Bar**  
Reinforcing member attached to the bottom of the curtain with a vinyl astragal seal to cushion the contact point on the counter. Single angle provided with slide bolt locking (shown), single angle with bent trim piece provided with cylinder locks.

**Standard Material & Finish:** steel with SpectraShield® powder coating Cornell gray or tan with galvanized steel curtain or #4 finish stainless steel with stainless steel curtains.

## Operation

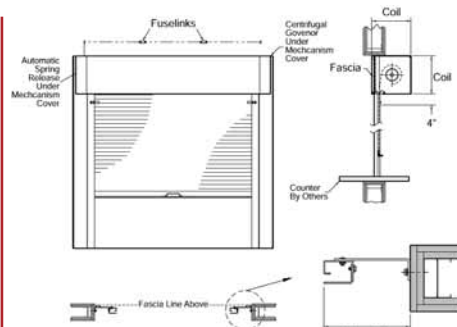
Push-up operation shown. Hand crank and motors are available. Doors operate by rotating the shaft gear end. The opposite end of shaft applies spring tension and is equipped with a spring adjusting wheel.

## Mounting & Clearances



**Face of Wall**  
Maintains clearance of full opening, minimal exposed components.

Counter Fire Doors 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.



**Between Jambs**  
Mounts within the opening, fascia (front hood closure piece) required.

## 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 gauge, #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.
- Advanced Fire Door Closing Systems - Cornell's full line of M100 FireGard™ Closing Systems are available, including M100 Motor, M100 Tube Motor and M100 Chain or Crank systems.
- Release Devices - Electro-mechanical devices enable conventional fire doors to respond to alarm signals from detection devices such as smoke detectors, heat sensors and central alarm signals, permitting doors to close long before high temperatures melt fusible links.
- Annunciators - safety devices that provide a visual and/or audible advanced warning when the fire door is about to close. Can be activated upon alarm signal or loss of power when supported by a battery back-up device.

## 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 adds durability and aesthetic value to our products in a choice of over 200 colors. Surface preparation and the coating process produces a smooth, long lasting finish at controlled costs.



# CORNELL

**SAFE AND SECURE**

An ISO 9001:2008 Registered Company

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