

## EMERGENCY RESPONSE

# CrossingGard™ EMERGENCY RESPONSE GRILLE

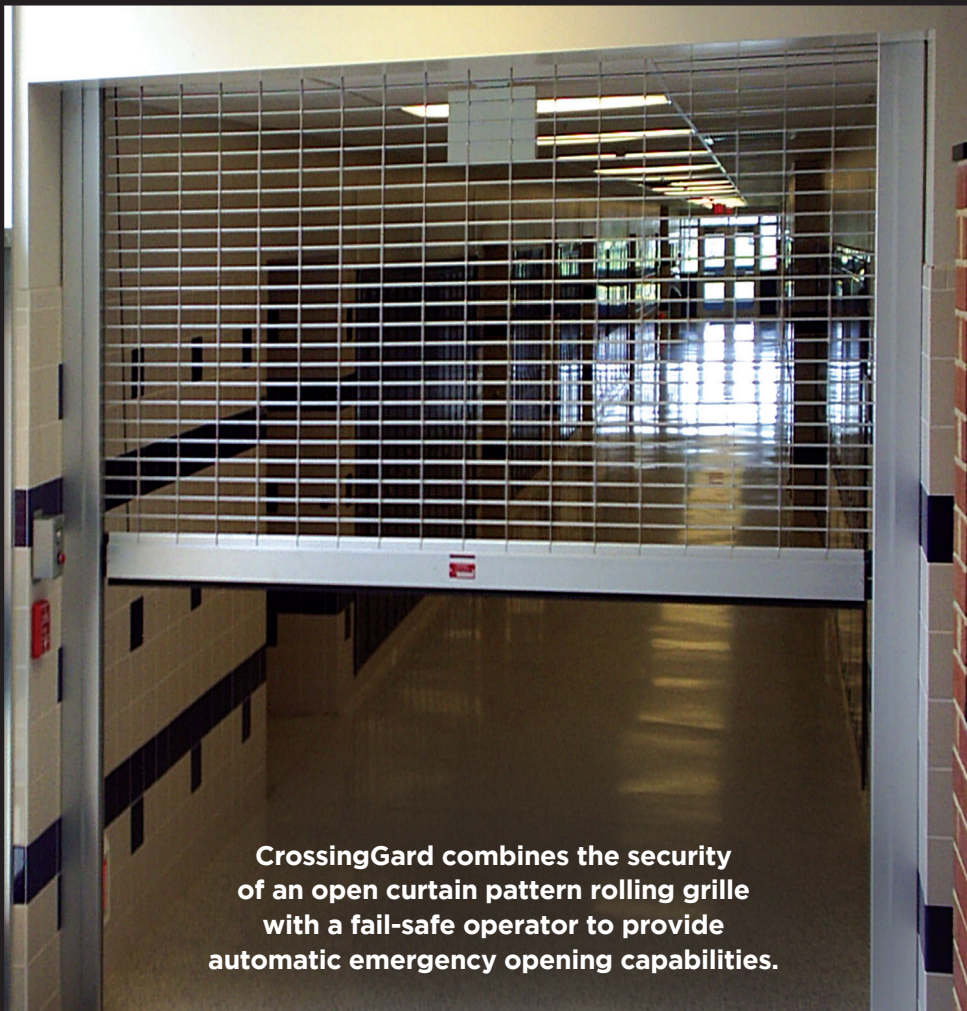
MODEL ERG-IBC ACCESS-CONTROLLED EGRESS PER THE IBC®



The CrossingGard ERG (Emergency Response Grille) is designed to help address both the security and safety issues of public areas. The CrossingGard provides the security of a locked, rolling grille but immediately responds in an emergency situation to fully open automatically and allow safe escape.

Available only from Cornell, the CrossingGard is always on duty to provide separation control, yet still allows for alternate means of escape should a fire, public disturbance or other emergency situation arise.

CrossingGard ERG-IBC is ICC-ES evaluated for access-controlled egress per the International Building Code®. Manual locking or unlocking is not required, and AutoLock automatically secures a closed grille by engaging upon attempt of forced opening. AutoLock remains disengaged during normal and emergency operation. When an alarm is sounded, power is lost or if the IBC emergency exit push-button station is activated, the CrossingGard immediately clears the path by returning the grille to its full open position without requiring an electric or battery power source. The operating mechanism can be recessed above the ceiling without affecting operation.



**CrossingGard combines the security of an open curtain pattern rolling grille with a fail-safe operator to provide automatic emergency opening capabilities.**

### PRACTICAL APPLICATIONS

- + Corridor protection in any public building which limits functional space at different times or for special events
- + Separation control grille applications where emergency personnel will require immediate access to secured areas in a crisis situation
- + Applications where combined ease of opening and security is desired
- + Openings that are part of a required means of egress

### BENEFITS

- + Fail-safe emergency response capability
- + Following an emergency situation, CrossingGard can be repositioned to the normal, closed position without operator resetting
- + Rugged, open grille pattern construction for durability and low maintenance
- + Convenient motor operation
- + Choice of finishes and guide trim package improve installation aesthetics
- + Controlled automatic/emergency opening speed between 6"-9" per second

### APPLICATIONS

- + Arts/Entertainment
- + Civic/Government
- + Education
- + Healthcare
- + Hospitality
- + Office Buildings
- + Transportation Facilities

**CORNELL**  
SAFE AND SECURE



# COMPONENTS

### Brackets

Minimum 1/4" steel plates bolt to guide supporting member and support counterbalance shaft and curtain  
**Standard Material & Finish:** Steel, with SpectraShield® powder coating in Cornell gray

### Counterbalance Shaft

4 1/2" minimum diameter outer shaft and 1 1/2" minimum inner shaft. This assembly supports the curtain and contains counterbalance torsion springs for fail-safe automatic opening of grille  
**Standard Material:** Steel

### Optional Hood, Fascia & Operator Cover\*

Protective sheet metal enclosures for the curtain and motor operating mechanism  
**Standard Material & Finishes:** Galvanized steel with exclusive GalvaNex™ finish in light gray or aluminum in mill, clear and color anodized or 300 series stainless steel with a #4 finish  
 \*not normally provided when unit is concealed above a ceiling

### Motor

Cornell AlarmGard FS series motor operator supplied as standard to provide fail-safe automatic emergency opening capabilities

### Guides

Extruded aluminum sections equipped with polypropylene pile runners, snap on trim and mounting member support the entire weight of the unit  
**Standard Material & Finish:** Mill finish aluminum  
**Optional Material:** Clear and color anodized aluminum

### Bottom Bar

2" x 3 1/2" heavy duty extruded aluminum tubular section  
**Standard Material & Finish:** Mill finish aluminum  
**Optional Material:** Stainless steel angles  
**Optional Component:** Bottom bar sensing edge

### Curtain

Open curtain pattern design with a series of solid 5/16" diameter horizontal rods at 2" spacing and vertical chain sets spaced at 9", 6" or 3" on center  
**Standard Material & Finish:** Mill finish aluminum  
**Optional Materials:** Stainless steel rods and chains or galvanized steel rods

### Self-Supporting Installation Option

Many grille installations utilize structural tubes for support, which allows for installation prior to the walls and ceiling being built. The tubes are factory prepared for the attachment of all grille components. Tubes are attached to the floor slab below and the joists above, thereby becoming self-supporting.

## OPERATION

- + Standard control station allows normal run and hold electric motor operation
- + Counterbalance shaft is designed with constant open spring torque
- + On alarm, power failure or emergency exit push-button station activation, the grille runs to the open position without the use of electric power or a battery power source
- + Controlled automatic or emergency opening speed of between 6"-9" per second
- + Once the alarm is cleared and/or power is restored and the push-button station is reset the grille is ready for normal electric operation

## LOCKING

- + Unique automatic locking mechanism provides an added level of security by preventing lifting of a closed grille
- + AutoLock mechanism engages upon unauthorized forced opening, but remains disengaged during normal and emergency operation

## STANDARD FEATURES

- + Cornell AlarmGard FS series electric motor operator
- + Cornell AutoLock assembly
- + Rugged, commercial duty, open grille pattern construction
- + Designed for up to 20 operating cycles per day
- + Built to opening sizes up to 24' wide and 20' high
- + Guide trim package provided
- + Includes signage and emergency exit push-button station

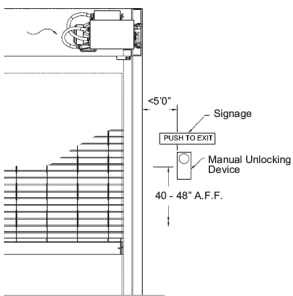
## OPTIONAL EQUIPMENT

- + Annunciator: preannounces grille opening in response to signal from the fire alarm system
- + Sensing Edge: enables closing grille to stop upon encountering an obstruction

## CURTAIN DESIGNS & FINISHES

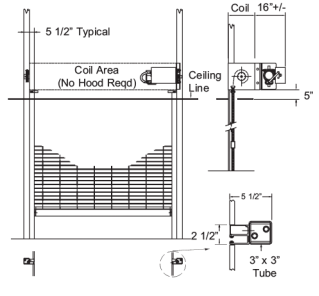
- + Open curtain grille pattern construction with 9", 6" or 3" vertical chain link spacing and 2" horizontal rod spacing (stainless steel vertical chain links only available with 2" spacing)
- + Curtain rods available in aluminum, galvanized or stainless steel material
- + Curtain chain sets available in aluminum or stainless steel material
- + Aluminum available with standard mill finish or in clear, medium bronze, dark bronze or black anodized

## MOUNTING & CLEARANCES



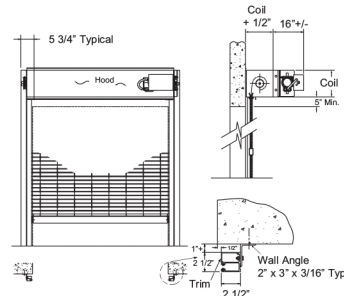
### Model ERG-IBC

Mounting similar to standard with added signage and emergency exit push-button station



### Between Jambes with Tubes

Structural tubes attach to floor and structure above or to structural side walls



### Face of Wall

Maintains clearance of full opening, minimal exposed components

CrossingGard Grilles are built to order to fit openings from 5' to 24' wide and from 4' to 20' high.

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