

ICC-ES Evaluation Report

ESR-1167

Reissued August 1, 2009

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DIVISION: 08—DOORS AND WINDOWS
Section: 08330—Coiling Doors and Grilles**REPORT HOLDER:****CORNELL IRON WORKS, INC.**
24 ELMWOOD AVENUE
MOUNTAINTOP, PENNSYLVANIA 18707
(570) 474-6773
www.cornelliron.com**EVALUATION SUBJECT:****CROSSINGGARD® EMERGENCY RESPONSE GRILLE****1.0 EVALUATION SCOPE****Compliance with the following codes:**2009 *International Building Code*® (IBC)**Property evaluated:**

Operating characteristics

2.0 USES

The Cornell Iron Works CrossingGard® Emergency Response Grille is an electric-operated vertical rolling grille with emergency response opening capabilities that is used as an alternative access-controlled egress door in interior locations under the provisions of Section 1008.1.4.4 of the IBC, as limited by Section 5.2 of this report.

3.0 DESCRIPTION

The grille consists of a combination of open-air security grille curtain construction with an automatic emergency opening capability. The grille is factory-fabricated in accordance with the approved quality manual, and consists of horizontal rods and vertical links that attach together to form a curtain that coils around a counterbalance shaft while opening. The counterbalance shaft is supported above the opening and secured by two brackets or end plates. The curtain travels in a side member within which the edge of the curtain is supported and guided. When in the closed position, the grille provides a physical barrier and additional security by means of an automatic locking device. Upon activation of the building fire alarm system, if provided, or building automatic fire sprinkler or fire detection system, if present, or power outage or activation of the incorporated panic device, the locking device and operator automatically disengage and the curtain raises to the fully open position to allow emergency egress.

4.0 INSTALLATION

The grille shall be installed with an approved entrance and egress access control system in accordance with the manufacturer's published installation instructions, the requirements of IBC Section 1008.1.4.4 and this report.

5.0 CONDITIONS OF USE

The CrossingGard® Emergency Response Grille described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** The grille shall be installed with an approved entrance and egress access control system in accordance with the manufacturer's published installation instructions, the requirements of IBC Section 1008.1.4.4 and this report. In the event of conflict between this report and the manufacturer's installation instructions, this report shall govern.
- 5.2** The rolling grille shall not be used as a replacement for a code-required exit door for the area being served, nor shall it be installed at a required exit access door.
- 5.3** The emergency push button manual unlocking device shall be located and identified in accordance with the requirements of Section 1008.1.4.4 of the IBC and Section 703 of ICC/ANSI A117.
- 5.4** All electrical components and the operator for this system shall be listed in accordance with the requirements of the *National Electrical Code* NFPA 70.
- 5.5** The installed grilles shall be tested and adjusted in accordance with the manufacturer's published installation instructions prior to being placed in operation.

6.0 EVIDENCE SUBMITTED

- 6.1** Manufacturer's published installation instructions and product data sheets.
- 6.2** Data in accordance with the ICC-ES Evaluation Guideline for Electric-operated Vertical Rolling Grilles with Emergency Response Opening Capabilities (EG287), dated March 1, 2005.
- 6.3** A quality control manual.

7.0 IDENTIFICATION

The packaging of the CrossingGard® Emergency Response Grille described in this report shall be identified with the Cornell Iron Works, Inc., name and address, the product name, and the evaluation report number (ESR-1167). Additionally, each grille shall be accompanied by the manufacturer's published installation instructions and the instructions for testing and adjusting of the grilles.