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RESEARCH REPORT: RR 25493
(CSI # 08350)

Expires: October 1, 2020
Issued Date: December 1, 2018
Code: 2017 LABC

GENERAL APPROVAL – Renewal - McKeon Door Company AC8000 Series, CFS Series, FSFD Series, H200 Series, S4000 Series, S7000 Series, S9000 Series, T2000 Series and T5000 Series Fire and Smoke and Draft Control Doors; Safescape Models G 1000 & G 1500 self- opening security grilles with emergency egress and Safescape Models G4000 & G4500 self-opening side coiling grilles with emergency egress.

DETAILS

McKeon Door Company special purpose fire doors of the following series are approved for the rating or classification indicated:

- (1) AC8000 Series: Accordion folding/sliding fire door systems. Assemblies are 3 hour fire rated and are also rated as smoke and draft control assemblies.
- (2) CFS SERIES: Overhead coiling fire shutter. Assembly is 4 hour rated in masonry applications, 3 hour rated in drywall applications and is also rated as a smoke and draft control assembly. All models can be either motor operated, hand chain, hand crank or manually push-up type operated.
- (3) FSFD Series: Overhead coiling fire door. Assembly is 4 hour rated in masonry applications, 3 hour rated in drywall applications and is also rated as a smoke and draft control assembly. All models can be either motor operated, hand chain operated or hand crank operated.

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- (4) H200 Series: Horizontal coiling fire shutter. Assembly is 2 hour fire rated and is also rated as a smoke and draft control assembly designed to protect openings such as in ceilings, non-egress stairways, escalators and atriums.
- (5) S4000 Series: Side coiling fire door. Assembly is 3 hour fire rated and is also rated as a smoke and draft control assembly.
- (6) S7000 Series. Side acting/sliding fire door systems with some models include integral swinging egress doors. Assemblies are 3 hour fire rated and are also rated as smoke and draft control assemblies.
- (7) S9000 Series: Side coiling fire door systems with integral swinging egress doors. Assemblies are 3 hour fire rated and are also rated as smoke and draft control assemblies.
- (8) T2000 Series: Overhead coiling fire door systems with integral swinging egress doors. Assemblies are 3 hour fire rated and are also rated as smoke and draft control assemblies.
- (9) T5000 Series: Overhead coiling/acting fire door system with one (1) or more integral swinging egress doors. Assembly is 3 hour rated and is also rated as smoke and draft control assemblies.
- (10) Safescape® Models G 1000 & G 1500 : Self- Opening Security Grilles with Egress Safescape® models G1000 & G1500 are vertical coiling systems that allow for egress. These units are intended for use where security egress is necessary. In the event of an emergency, power failure, activation of a facility's fire alarm system or smoke detection system, the security grilles automatically move to the fully open position.
- (11) Safescape® Models G4000 & G4500 : Self Opening Security Grilles with Egress Safescape® G4000 & G4500 are side coiling units that allow for egress. These units are intended for use in applications where security egress is necessary. In the event of an emergency, power failure, activation of a facility's fire alarm system or smoke detection system, the automatically security grilles move to the fully open position.

The approval is subject to the following conditions:

1. The AC8000 series fire doors and pertinent hardware shall bear the Intertek Testing Services /Warnock Hershey labels. CFS Series, FSFD Series, H200 Series, S4000 Series, S7000 Series, S9000 Series, T2000 Series and T5000 Series fire doors and pertinent hardware shall bear Underwriters Laboratories, Incorporated labels.

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2. The entire door assembly shall comply as an automatic-closing fire assembly as defined in Section 716 of the 2017 City of Los Angeles Building Code, and the automatic-closing device shall bear the label of Intertek Testing Service NA Inc. or Underwriters Laboratories, Incorporated.
3. Nothing herein shall be construed to waive or modify and provisions of the 2017 City of Los Angeles Electrical or Mechanical Codes.
4. The doors shall be installed in accordance with the manufacturer's instruction, the fire door listing, this research report, and the 2017 City of Los Angeles Building Code.
5. The actuating device, as required by Section 1010.1.4.2 of the 2017 LABC, shall be preset in accordance with the Department's requirements to ensure emergency egress from the entire enclosed area. The minimum opening distance shall be 3 feet.
6. Separate areas created by closing of the doors shall conform separately to exit, ventilation and other requirements of the 2017 City of Los Angeles Building Code.
7. The doors may be used as means of egress in accordance with exception 6 of section 1010.1.2 of the 2017 City of Los Angeles Building Code and installed in accordance with Section 1010.1.4.3.
8. The maximum door size shall be 12-feet long by 12-feet high where a fire-resistive assembly is required. However, oversized fire doors may be installed, provided its location is approved by the Structural Plan Check Section in accordance with Section 716.5.7.2 of the 2017 City of Los Angeles Building Code and the door is labeled or furnished with an oversize label from an approved agency. The special purpose fire doors shall only be used as an automatic-closing fire door for the protection of openings within a wall required to be of fire-resistive construction.
9. Fire doors which are automatic closing by smoke detection shall not have a closing or reclosing delay of more than 10-seconds in accordance with Section 716.5.9.3 of the 2017 City of Los Angeles Building Code.
10. The operators and failsafe release mechanisms of security grilles Models G1000 , G1500, G4000 and G4500 shall bear the label of Underwriters Laboratories Incorporated.

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DISCUSSION

The report is in compliance with the 2017 Los Angeles City Building Code.

This approval of the special purpose fire doors for use as smoke and draft control assemblies complies with UBC Standard 7-2. Renewal of this approval, if changes are made to the standards for smoke and draft control assemblies, will be contingent upon the door assemblies successfully passing tests conducted by a Los Angeles City Department of Building and Safety approved testing agency.

The approval of the doors for the specified fire-resistive time rating is based upon satisfactory standard fire door tests as reported by Intertek Testing Services NA Inc. and Underwriters Laboratories, Incorporated.

This general approval of an equivalent alternate to the Code is only valid where an engineer and/or inspector of this Department has determined that all conditions of this Approval have been met in the project in which it is to be used.

Addressee to whom this Research Report is issued is responsible for providing copies of it, complete with any attachments indicated, to architects, engineers and builders using items approved herein in design or construction which must be approved by Department of Building and Safety Engineers and Inspectors.

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