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LISTING INFORMATION OF

**McKEON Vertical Rolling Steel Doors, Models - CFS, FSFD,
FSFD-IS, FSFD-STC, FSFD-TR, & Dynamic 110F**

SPEC ID: 29543

McKEON
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United States

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LISTING INFORMATION

FIRE & SMOKE CONTROL DOOR ASSEMBLIES

Vertical Rolling Steel Doors, Models - CFS, FSFD, FSFD-IS Insulated, FSFD-STC Acoustic, and Dynamic 110F, for installation as a Fire & Smoke-control door assembly and Model FSFD-TR for Temperature Rise. May incorporate vision panels.

The Auto Set Fire Door (3" Flat Slat), Insulated Fire Door (Insulated Profile), Acoustic Fire Door (Acoustic Profile), Auto Set Fire Shutter (1-1/4" Profile), and Dynamic 110F (F3D Profile) are fire rated for 4 hour, 3 hour, 1-1/2 hour, 1 hour, and 3/4 hour per UL 10B when supported by a masonry, gypsum-protected CLT (see limitations below), or gypsum with structural steel stud wall.

For 4 hour and 250 or 450 degree temperature rating two Insulated Fire Door assemblies shall be installed back to back (see details below):

FSFD-TR temperature rise rating of "Less than 650 degrees" when used singly on one face of the supporting wall, a temperature rise rating of "Less than 450 degree" when installed back to back on both faces of the supporting wall, and a temperature rise rating of "Less than 250 degree" when installed back to back on both faces of the supporting wall with a minimum wall thickness (air gap) of 13 inches between the doors.

AIR LEAKAGE RATINGS

Test Standard	Test Type	Rating ^a
UL 1784	Ambient Temperature	≤3.0 cfm/ft ² at up to 0.10 in. of w.c.
UL 1784	Elevated Temperature	≤3.0 cfm/ft ² at up to 0.10 in. of w.c.

^aThese assemblies were evaluated **without the use of an artificial bottom seal**. When installed with the manufacturer-provided brushes and neoprene bottom seal, they may be installed in areas where pressurization is provided to control smoke movement in accordance with Section 4.3.2 of NFPA 105 and for hoistway opening protection and lobby doorways as allowed in Chapter 30 of the IBC. For installations exclusive of hoistway opening protection and lobby doorways, and where pressurization is not used to control smoke movement, seals at the bottom edges of the assemblies are optional.

CODE COMPLIANCE RESEARCH REPORT

Evaluation Method	Building Codes	CCRR Number
NFPA 252 UL 10B UL 1784	2021, 2018, and 2015 IBC 2021, 2018, and 2015 IFC 2023, 2020 FBC 2022 CBC 2023 LABC	CCRR-1086

SIZE LIMITATIONS

Certification Procedure	Maximum Area	Maximum Width	Maximum Height
LABEL	156 sq ft	13'-0"	12'-0"
CERTIFICATE/LABEL	unlimited*	unlimited*	unlimited*

*The AHJ may approve "oversize" doors with no size limitation based on an oversized certificate/label that states

the door supplied is constructed in accordance with the certified design except for the size.

INSTALLATION LIMITATIONS

Assemblies may be installed in gypsum with structural steel stud framing, masonry, or gypsum-protected Cross Laminated Timber (CLT) walls. When installed in gypsum-protected CLT walls, the following conditions apply:

- Supporting CLT wall must be fire-resistance-rated in accordance with the code.
- Noncombustible protection shall be in accordance with the code, but not less than:
 - Two layers of 5/8-inch Type X gypsum per face for walls required to have a fire-resistance rating of 2 hours or less.
 - Three layers of 5/8-inch Type X gypsum per face for walls required to have a fire-resistance rating of 3 hours or more.
- Fire-protection ratings for assemblies installed in CLT shall not exceed 3 hours, regardless of maximum assembly rating when installed in masonry construction.
- Assemblies bearing a fire-protection rating of 90 minutes or less shall be designed with an additional sacrificial 1 inch of anchorage embedment depth or be through-bolted.
- Assemblies bearing a fire-protection rating of 2 or 3 hours shall use through-bolted anchorage.

Attribute	Value
Certificate Date of Expiry	December 31, 2025
Certificate Date of Initial Registration	March 21, 2016
Certificate Number	WHI16-20384305
Code Reports	Yes
Criteria	NFPA 252 (2012)
Criteria	UL 1784 (2015)
Criteria	CAN / ULC S104 (2015) (R2020)
Criteria	UL 10(b) (2008) (R2015)
CSI Code	08 11 00 Metal Doors and Frames
CSI Code	08 30 00 Specialty Doors and Frames
CSI Code	08 35 13.23 Accordion Folding Fire Doors
Fire Resistance	1 Hour Fire Rating
Fire Resistance	3 Hour Fire Rated
Fire Resistance	4 Hour Fire Rated
Fire Resistance	90 Minute Fire Rated
Fire Resistance	45 Minute Fire Rated
Intertek Services	Certification
Intertek Services	Code Compliance Research Report
Issue Status	8
Listed or Inspected	LISTED
Listing Section	DOORS - ROLLING STEEL

Listing Section	SMOKE CONTROL DOOR ASSEMBLIES
Report Number	J99013045-231, J20021957-231, G100904711, G102273405, 92NK29133, G105476021, G105411900, G105502242, G105476021, G105850951, G106029130
Spec ID	29543
Temperature Rise	@ 30 Min = 650° F MAX Where Lites Do Not Exceed 100 IN2
Temperature Rise	@ 30 Min = 250° F MAX Where Lites Do Not Exceed 100 IN2
Temperature Rise	@ 30 Min = 450° F MAX Where Lites Do Not Exceed 100 IN2
Verification Testing	No