



LISTING INFORMATION OF
**McKEON Model D400 90 Minute Opening Protective
Assembly with Hose Stream**
SPEC ID: 58414

McKEON
44 Sawgrass Drive
Bellport, NY 11713
United States

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LISTING INFORMATION

McKEON Model D400 90 Minute Opening Protective Assembly with Hose Stream.

FIRE RATINGS

Test Standard	Rating ^a
UL 10B, NFPA 252, CAN/ULC S104	90 minutes with hose stream

^aAssembly must be installed in a listed steel stud/gypsum, gypsum-protected CLT (see limitations below), or masonry wall matching or exceeding the desired door rating.

AIR LEAKAGE RATINGS

Test Standard	Test Type	Rating ^{b,c}
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.

^bThis assembly was evaluated **without the use of an artificial bottom seal**. When installed with the manufacturer-provided brushes and neoprene bottom seal, it 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, a seal at the bottom edge of the assembly is optional.

^cA pair of two-inch brushes are required at the headbox and a single one-inch brush at each side guide is optional based on test results to meet air leakage ratings. Brushes must be listed & labeled for fire applications.

CODE COMPLIANCE RESEARCH REPORT

Evaluation Method	Building Code	CCRR Number
UL 10B UL 1784	2021, 2018, 2015 IBC 2021, 2018, 2015 IFC 2023, 2020 FBC	CCRR-1086

MAXIMUM SIZE LIMITATIONS

Certification Procedure	Area	Width	Height
LABEL*	120 sq ft	12' 0"	10' 0"
OVERSIZE CERTIFICATE/LABEL	Unlimited	Unlimited	Unlimited

*Assemblies exceeding these dimensions must have an oversize label, issued by Intertek, stating the assembly is constructed in accordance with the certified design except for size. Acceptance of the oversize assembly is at the discretion of the Authority Having Jurisdiction.

MINIMUM SIZE LIMITATIONS (UL 1784 ONLY)**

Area	Width	Height
49 sq ft	7' 0"	7' 0"

**Fire only assemblies do not have a minimum size.

INSTALLATION LIMITATIONS

Assemblies may be installed in gypsum with structural steel stud, 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.
- 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.

Minimum Bottom Bar weight: 3.6 lbs per ft. of bottom bar or 0.3 lbs per sq ft. of curtain area

No curtain overlap or egress openings allowed

Side Guide Anchorage: 1/4" anchors spaced maximum 18" on-center

Top Hood/Assembly Mounting: maximum 24" on-center

Attribute	Value
Certificate Date of Expiry	December 31, 2024
Certificate Date of Initial Registration	June 18, 2021
Certificate Number	WHI21-20384312
Code Reports	Yes
Criteria	UL 1784 (2015)
Criteria	CAN / ULC S104 (2015) (R2020)
Criteria	UL 10(b) (2008) (R2015)
Criteria	NFPA 252 (2017)
CSI Code	08 30 00 Specialty Doors and Frames
Fire Resistance	90 Min Neutral Pressure
Intertek Services	Certification
Issue Status	4
Listed or Inspected	LISTED
Listing Section	MISCELLANEOUS FIRE BARRIERS
Listing Section	SMOKE CONTROL DOOR ASSEMBLIES
Report Number	104353762, 104431910, 104756043
Spec ID	58414
Verification Test Type	ASTM E1252
Verification Testing	YES
Verification Testing Lab	MID - Middleton, WI