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LISTING INFORMATION OF

McKEON SafeSpace™ SS500 and SS500F Series Tornado & Hurricane Resistant Doors

SPEC ID: 43799

McKEON
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Bellport, NY 11713
United States

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LISTING INFORMATION

McKEON SafeSpace™ SS500 and SS500F Series Tornado & Hurricane Resistant Doors
The SafeSpace SS500 is certified for wind pressure and impact resistance only. The SafeSpace SS500F is certified for wind pressure, impact, and fire resistance. When fire resistance is required by Section 603 of ICC 500-2020 or Section B6.2.3 of FEMA P-361 (2021), the SafeSpace SS500F must be used.

ICC 500 WIND PRESSURE AND IMPACT RATINGS (SS500 and SS500F)

Assembly Type	Permitted Size*	Design Wind Pressure	Impact Rating
Rolling Door Assembly (Installed on protected side of shelter envelope)	Min: 4'-4" wide 4'-0" high Max: 16'-4" wide 22'-0" high	Tornado: ±252 PSF Hurricane: ±201 PSF	15 lbs. @ 100 MPH

*Width is tip to tip of support guide angles. Permitted sizes above pertain only to ICC 500 ratings, see below for size limitations of fire-resistance-rated SS500F assemblies.

FIRE RATINGS (SS500F Only)

Test Standard	Rating
UL 10B, NFPA 252, CAN/ULC S104	4 hours

AIR LEAKAGE RATINGS (SS500F Only)

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.

[a]This 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. For installations where pressurization is not used to control smoke movement, a seal at the bottom edge of the assembly is optional.

CODE COMPLIANCE RESEARCH REPORT

Evaluation Method	Building Code	CCRR Number
ICC 500 UL 10B	2024, 2021 IBC 2023, 2020 FBC 2022 CBC 2023 LABC	CCRR-0500

SIZE LIMITATIONS (SS500F Only)

Certification Procedure	Maximum Area	Maximum Width	Maximum Height
LABEL	156 sq ft	13'-0"	12'-0"
CERTIFICATE/LABEL*	294 sq ft	16'-4"	22'-0"

*The AHJ may approve "oversize" doors based on an oversized certificate/label that states the door supplied is

constructed in accordance with the certified design except for the size. ICC 500 Size restrictions located in the table above still apply.

INSTALLATION LIMITATIONS

When mounted to steel supporting structure, Mounting Angles are anchored with minimum 5/8" diameter A325 bolts spaced maximum 16 inches on-center. Structural adequacy of steel supporting structure is to be determined by others and is not evaluated as part of this Listing.

When mounted to concrete supporting structure, Mounting Angles are anchored with 5/8" diameter Simpson Strong-Bolt 2 wedge anchors spaced maximum 16 inches on-center. The tested condition utilized 4000-psi strength concrete, an embedment length of 5-1/8 inches, and an edge distance to the opening of 7-1/2 inches. Adequacy of concrete supporting structure is to be determined by others and is not evaluated as part of this Listing.

Alternate anchoring to supporting structure that maintains the maximum spacing of 16 inches on-center is to be designed by a registered design professional for pull-out, shear, and placement to resist the design loads in accordance with ICC 500-2014 Section 301 and ICC 500-2020 Section 304.

Installation shall follow these listing procedures and the manufacturer's instructions provided with each assembly. In the event of a conflict, these listing procedures govern.

Attribute	Value
Certificate Date of Expiry	December 31, 2026
Certificate Date of Initial Registration	April 23, 2020
Certificate Number	WHI20-20384307
Code Reports	Yes
Criteria	ICC 500 (2014)
Criteria	CAN / ULC S104 (2015) (R2020)
Criteria	UL 10(b) (2008) (R2020)
Criteria	ICC 500 (2020)
Criteria	FEMA P-361 (2021) Ed.4
Criteria	NFPA 252 (2022)
CSI Code	08 34 00 Special Function Doors
Intertek Services	Certification
Issue Status	9
Listed or Inspected	LISTED
Listing Section	WIND LOAD RESISTANT DOORS
Report Number	H5680, F3964, E2664, G10337886, N0130, G104979545, G105183050, G105275605, G105850951
Spec ID	43799
Test Original Issue Date	April 9, 2015
Verification Testing	No
Windload/Structural	Storm Shelter

Windload/Structural	Tornado Resistance