

NATIONAL

CUSTOM HOLLOW METAL DOORS & FRAMES

The difference is quality.



Severe Windstorm Tests & UL Label



- NHCM Windstorm Test Specimen met performance per ASTM E330-14, ASTM E1886-19, ASTM E1996-17
- Test Doors & Frames Manufactured in accordance of HMMA 861-06 Guide Specifications for Commercial Hollow Metal Doors and Frames
- UL classified in accordance with ANSI/SDI BHMA A 250.13
- Passed 70 PSF (ASD) Meets requirements for 150 MPH wind speed
- Includes Large Missile Impact - wind zone 4 rated
- Singles 3'0" x 7'0" | Pairs 6'0" x 7'0"



HIGH WIND ZONES
HURRICANE RESISTANT

COMMONLY FOUND IN

COASTAL COMMUNITIES UP TO 50 MILES INLAND

COMMERCIAL EXTERIOR ENTRANCES

MUNICIPALITIES

UTILITY PROVIDERS EXTERIOR ENTRANCES

FIRST RESPONDERS EXTERIOR ENTRANCES

STORAGE FACILITIES

Louver Kit Option

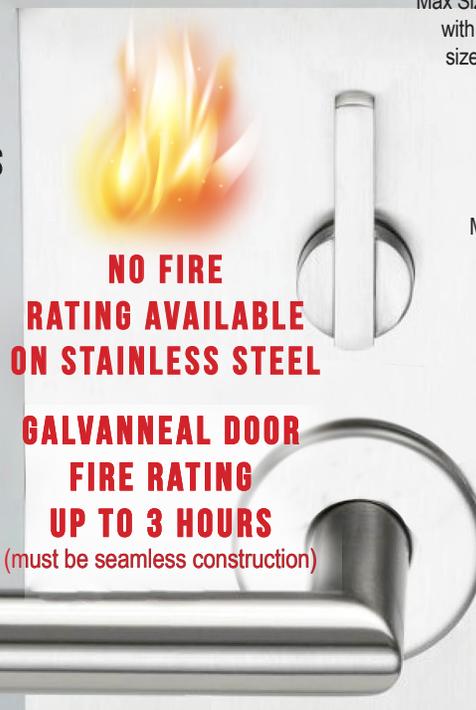
Classified Anemostat PLSL
Max Size 24" wide x 64" high
with 14 GA steel channels
sized to louver dimension

Light Kit Option

Anemostat Storm
Pro HR or HRG
Max - 23" W 59" H
Min Distance to edge -
6.5" sides x 12.5"
top and bottom

Glass

1/2" thick Hurricane
Glass by Alumiglaze
with 3M HRT-0900
Glazing Tape



**NO FIRE
RATING AVAILABLE
ON STAINLESS STEEL**

**GALVANNEAL DOOR
FIRE RATING
UP TO 3 HOURS**

(must be seamless construction)

**WE OFFER BOTH HOT RUSH
& QUIK SHIP SERVICES**

**CALL US TODAY
FOR AVAILABILITY**



WIND STORM

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Frame Profile

Frame Depth Min 5 3/4" Max 14" 16 GA Steel Galvanized, Stainless Steel, or Cold Rolled
40" x 86" Single and 76" x 86" Pair
2" Face Head and Jamb with 4" Face Header Option

Doors and Frames can be installed into:

Masonry walls using wire anchors or 3/8" x 5" lag bolts
Wood Stud walls using 3/8" x 5" lag bolts (screws)

UL Labeled and Classified by NCHM/ Bush Caldwell
Bush Caldwell 2007 Certified NCHM 2017 & 2020 Certified on FBC Site (Florida Building Code)

Product was evaluated and found compliant with International Residential Code (IRC) International Building Code (IBC)

Door Construction

16 GA Stainless Steel or Galvanized Steel with 22 GA Steel Stiffeners
36" wide x 84" tall with 7 GA Hinge reinforcement
Continuous Welded Sheets w/ top and bottom spot-welded channels
Anemostat Windstorm Lite Kit and Louver accepted
Opaque Steel Single Door Outswing Label rated +/- 70 PSF

Outswing Steel Flush Doors

3'0" x 7'0" Opaque Steel Single Door (Outswing) Label rated +/- 70 PSF
6'0" x 7'0" Opaque Steel Double Door (Outswing) Label rated +/- 70 PSF

TDI Tested Hardware

Hinges 3 McKinney TA 2714 Butt Hinges per leaf
Lock single Cylindrical Corbin Russwin CL3300
Mortise Sargent 8200 w/ deadbolt

Rim Exit Yale 7150 w/ windstorm bracket
TDI Frames Construction 16 GA welded/ Door 16 GA Steel Stiffen

Hinges 6 McKinney TA 2714 Butt Hinges per leaf
Lock Pair Cylindrical Corbin Russwin CL3300 / 2 Yale 988Y surf. bolt
Sargent 8200 Mortise with DB / 2 Yale 988Y surf. bolt
Sargent WS8900 Mortise with DB / 2 Yale 7170 SVR top and bot. inactive
Yale 7150 RIM Windstorm
Bracket / Yale M200FWS Rem. Mull.
Sargent 8600 CVR and a Sargent HC8700 Surf. Vert. Rod.

TDI Frame Construction Pair 14 GA welded / Door 16 GA Steel Stiffen

These products satisfy the Texas Department of Insurance Criteria for protection from wind-born debris in the Inland 1 and Seaward Zones. Assembly Passed Missile Level D.

FBC Approved Hardware Components

UL Classified Hardware Acceptable (Single Door)

Cylindrical Latching Hardware
Mortise w/ Deadbolt Latching Hardware
Rim Exit w/windstorm interlocking bracket latching hardware
UL Classified 3 Point Series Lock

UL Classified Hardware Acceptable (Pair of Doors)

Cylindrical and (2) UL Classified Surface Bolts
Mortise w/ Deadbolt and (2) UL Classified Surface Bolt
(2) Rim Exit W/ Windstorm Interlocking bracket w/ Mullions
(2) Concealed Vertical Rod Exit Devices
(2) Surface Vertical Rod Exit Devices

Installation

Assemblies can be installed at any height on the structure as long as the design pressure rating is not exceeded.

Wall Framing - spruce, pine, or fir wood;
Grouted CMU Block and Poured Concrete Wall (min 3000 psi)
Installation Fasteners - Wood - (min) 3/8" Grade 5 lag screw Masonry Grouted CMU Block and Concrete: (min) 3/8" Dynabolt sleeve anchor

Note: The actual design pressure requirements should be calculated in accordance with ASCE 7.

Hurricane wind scale: What 1 to 5 looks like		
Category	Winds (MPH)	
1	74 to 95	
2	96 to 110	
3	111 to 129	
4	130 to 156	
5	157 or higher	

TDI

National Custom Hollow Metal R26918, R26904 (ZHLL, ZHLA) 6070 XX, 3070 X
DOOR ASSEMBLY FOR USE IN WINDSTORM-RATED ASSEMBLY IN ACCORDANCE WITH ASTM E330-14, ASTM E1886-19, ASTM E1996-17
Missile Level D IMPACT=9LB 2x4 AT 34 MPH
DESIGN PRESSURE = +/-70 PSF

How to Calculate wind pressure?

Wind pressure is given by the equation $P = 0.00256 \times V^2$, where V is the speed of the wind in miles per hour (mph). The unit for wind pressure is pounds per square foot (psf).

For example, if the wind speed is 70 mph, the wind pressure is $0.00256 \times 70^2 = 12.5$ psf.

Need a quote?

sales@nchmetal.com



WINDSTORM