

Technical Data

Windstorm Assemblies - 2020

Tech 401a


ASTM E330-02 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Uniform Static Air Pressure Difference.

ASTM E1886-05 Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.

Testing Standards

ASTM E1996-09 Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Storm Shutters Impacted by Windborne Debris in Hurricanes, Missile D, Wind Zone 4

ASTM E1996-06 Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Storm Shutters Impacted by Windborne Debris in Hurricanes, Missile D, Wind Zone 4

Size	Singles: 4'-0" x 8'-0" max 2" Face Frame Material (Jambs & Header) 4" Header Optional
Door Design	16 Gauge (0.053 min) Steel Stiffened Core +60.0/-65.0 18 Gauge (0.042 min) Polystyrene Core +50.0/-50.0 Flush Doors ONLY
Material Gauge (Door & Frame)	18 Gauge (0.042 min) - ANSI A250.8/SDI 100 Level 2 16 Gauge (0.053 min) - ANSI A250.8/SDI 100 Level 3 (Heavy Duty) 14 Gauge (0.067 min) - ANSI A250.8/SDI 100 Level 4 (Extra Heavy Duty)
Material Type	Cold Rolled Steel - ASTM A1008 A60 Galvannealed - ASTM A653
Frame Jamb Depth	5 3/4" min - 10" max (Butted Wall)
Fire Rating	Up to 1-1/2 hours (90 minutes) 
Single Door Hardware	Rim Exit Device - PDQ 6300R/6300RF Series
Additional	IBC Compliant State of Florida DBPR Approved FBC 2020 Approval—FL #40948



Technical Data

Windstorm Assemblies - 2007

Tech 401b

Testing Standards

ANSI A250.13 Testing and Rating for Severe Windstorm Resistant Components for Swinging Door Assemblies.

ASTM E330-02 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Uniform Static Air Pressure Difference.

ASTM E1886-05 Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.

ASTM E1996-09 Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Storm Shutters Impacted by Windborne Debris in Hurricanes, Missile D, Wind Zone 4

ASTM E1996-06 Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Storm Shutters Impacted by Windborne Debris in Hurricanes, Missile D, Wind Zone 4

Size	Singles: 3'-0" x 7'-0" max Pairs: 6'-0" x 7'-0" max (equal pair) 2" Face Frame Material (Jambs & Header)
Door Design	Steel Stiffened per HMMA 861 Specification See MPI Tech Data Sheet No. 303 Flush Doors ONLY
Material Gauge (Door & Frame)	16 Gauge (0.053 min) - ANSI A250.8/SDI 100 Level 3 (Heavy Duty) 14 Gauge (0.067 min) - ANSI A250.8/SDI 100 Level 4 (Extra Heavy Duty)
Material Type	Cold Rolled Steel - ASTM A1008 A60 Galvannealed - ASTM A653 Stainless Steel
Design Pressure	70 psf +/-
Frame Jamb Depth	5 3/4" min - 10" max
Fire Rating	Up to 1-1/2 hours (90 minutes) 
Single Door Hardware	Cylindrical Lock Mortise Lock Mortise Deadlock Mortised Exit Device Rim Exit Device
Paired Door Hardware	Cylindrical Lock (active) by Surface Bolt (in-active) Mortise Lock (active) by Surface Bolt (in-active) Mortise Deadbolt (active) by Surface Bolt (in-active) Mortise Exit Device (active) by Surface Bolt (in-active) Mortise Exit Device (active) by Concealed Vertical Rod (in-active) Mortise Exit Device (active) by Surface Vertical Rod (in-active) Rim Exit Device by Rim Exit Device with Hardware Mullion Concealed Vertical Rod by Concealed Vertical Rod Surface Vertical Rod by Surface Vertical Rod
Additional	IBC Compliant State of Florida DBPR Approved FBC 2007 Approval—FL #14348 Certification & validation for fire & windstorm by Underwriters Laboratories (UL)



Hardware tested during MPI's testing (substations must meet ANSI 250.13) (all hardware supplied by others)

Corbin Russwin CL3300 Cylindrical Lock, Sargent 8200 Mortise Lock with deadlock, Sargent WS8900 Mortise Lock with deadlock, Yale 7150 Rim Exit with windstorm interlocking bracket, Yale 7170 Surface Vertical Rod, Sargent HC8700 Surface Vertical Rod, Sargent 8600 Concealed Vertical Rod, Sargent 988Y Surface Bolts, & Yale M200FWS Hardware Mullion