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Hurricane

Introduction

CURRIES wind resistant products that have been successfully tested to several test methods.

These methods include:

- 1) High velocity hurricane zone (HVHZ) Test Protocols
TAS-201 – Cyclic Wind Pressure Loading and Impact Test Procedure
TAS-202 - Criteria for Testing Impact and Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure.
TAS-203 – Criteria for Testing Product Subject to Cyclic Wind Pressure Loading
- 2) ASTM E330 – Test Method E330 Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
- 3) ASTM E1886 – Test Method E1886 Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.
- 4) ASTM E1996 - Test method E1996 performance of exterior windows, curtains walls, doors and storm shutters impacted by wind borne debris in hurricanes.
- 5) ICC 500-(2014) ICC/NSSA standard for the Design and Construction of Storm Shelter.
- 6) Unless otherwise specified, product has been tested as large missile impact is 9 lb 2 x 4 at 50 feet/second or 350 ft-lbs. (Missile Level D).

Dade County Approved Products

Products that have been successfully tested to the TAS Protocols may be designated with FBC approval number. The number can be found later in this section. The Design Pressure represents the pressure used as the basis for testing the assemblies to the TAS protocols.

Florida Building Code Requirements

The Florida Building Code specifies that products must be tested to either the State of Florida TAS or ASTM test methods. Products installed in the Dade or Broward Counties, (also designated as the High Velocity Hurricane Zone (HVHZ)) must be successfully tested to the TAS test protocols. The Florida Building Code also provides several methods for acceptance of products:

- 1) Certification testing to the ASTM or TAS test methods.
- 2) Third party certification - (UL, Warnock Hersey)
- 3) Dade County Product Approval
- 4) Engineering Evaluation

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CURRIES Wind Resistant Product

Windstorm Certified Products Technical Data



September, 2019

Hurricane Order Requirements

Basic order requirements for each approved assembly are provided on the following pages.

General Order requirements include:

- 1) Product must be configured as defined on the attached pages to FBC requirements (including high velocity hurricane zone).
- 2) Single doors cannot be used as the active leaf of a pair, but the active leaf of a pair can be used as a single door.
- 3) Units smaller than the size tested may be used.
- 4) All fire resistance requirements must be met to apply a fire label.
- 5) Only the MARKAR WL60 louver may be used for louvered doors.
- 6) Glazed Doors - Specific products must be used in glazed doors. See individual assemblies for products, requirements, and limitations.
 - a) 1/4" thick Dade County clear polycarbonate installed with closed cell foam tape on both sides of the polycarbonate sheet. The polycarbonate tested was Hyzod brand by DSM Engineering Plastics Corporation. Type 1 vision light kits are used for the 1/4" polycarbonate.
 - b) Nebula Glass Glasslam Plus 2 Laminated glass assembly installed with Dow Corning 995 structural silicone per the manufacturer's instructions. Closed cell foam tape is used on both sides of the glass assembly. A Type 2 vision light kit with 5/8" pocket is required.
- 7) Product certified by a Dade County NOA must have a Dade County Florida acceptance label.
- 8) The customer specified pressure cannot be greater than the Design Pressure or for assemblies required to meet ASTM E1886. Impact speed is 50 feet per second.
- 9) For assemblies required to meet ASTM E330 only, the customer-supplied pressure cannot be greater than the Design Pressure.
- 10) Standard Weight or heavy weight 4-1/2" x 4-1/2" or 5" x 4-1/2" steel butt hinges and continuous hinges may be used where indicated.
- 11) Z astragals may not be used on any assemblies.
- 12) Transom panels must be 1-3/4" thick 707 or 747 panels.
- 13) Transom lights must be Glasslam Plus2 laminated glass assembly with closed cell foam tape. Pocket width is 5/8". Must use 5/8" glass stop with UL screw spacing.
- 14) Anchors - Anchors are CURRIES locations unless otherwise specified.
- 15) Minimum Jamb Depth is 5-3/4" - Maximum jamb depth is 14" unless indicated otherwise. Frame must be fully supported by the wall.



Design Pressure	Product	Maximum Size of Opening	Hardware	Door	Face Type or Frame Glazing	For Use in the HVHZ ¹	FL Building Commission Approval Number
+/-150	Door and Frame (Component)	8'0" x 8'0"	Surface Vertical Rod	707 747 847	F, FP	Yes	FL32087 ^B
+/-150	Door (Component)	8'0" x 8'0"	Surface Vertical Rod	707 747	F, FV, FNV, FNV5, FNV6, FNV7, FNV8, FNV9	Yes	FL11537
+/-150	Door and Frame (Component)	8'0" x 8'0"	Multi Point Lock	747 ^A	N/A	Yes	FL4553
+/-150	Frame (Component) Side Panel	8'0" x 8'0"	Surface Vertical Rod	707 747	N/A	Yes	FL11537
+/-115	Door and Frame Component	3'0" x 7'0"	Mortise Lock (latch bolt and dead bolt)	757	Flush	Yes	FL11537
+/-115	Door and Frame Component	3'0" x 7'0"	Mortise Lock (latch bolt and dead bolt), Rim Exit	707, 727, or 747	Flush	Yes	FL8768
+/-100	Door and Frame Component	3'0" x 7'0"	Cylindrical, Mortise Lock (latch bolt and dead bolt), Rim Exit	707, 727, 747 777, 777E	Flush	Yes	FL11537
+/-100	Door and Frame Component	3'0" x 7'0"	Cylindrical, Mortise Lock (latch bolt and dead bolt)	757	Flush	Yes	FL11537
+/-100	Door and Frame Assembly	3'0" x 7'0"	Sargent 8200 (latch bolt and deadbolt)	707	Flush	Yes	FL8394
+/-85	Door and Frame Assembly	3'0" x 7'0"	Sargent 6500	707	Flush	Yes	FL8394
+/-80	Door and Frame Assembly	3'0" x 7'0"	Sargent 8900	707	Flush	Yes	FL8394
+/-72	Door and Frame Assembly	3'0" x 7'0"	Sargent 8200 / Sargent 10 line	707	Up to HG (24 x 32)	Yes	FL8394
+/-70	Door and Frame Component	6'0" x 7'0"	Mortise Lock (latch bolt and dead bolt) active, Flush Bolts or Surface Bolts Inactive	777 777E	Flush	Yes	FL11537
+/-70	Door (Component)	8'0" x 8'0"	Concealed Vertical Rod, Mortise Lock (latch bolt and dead bolt) active, Surface bolts inactive, Rim Exit, Surface Vertical Rod	707, 727, or 747	Up to HG (32 x 42) Up to FL (34 x 78)	Yes	FL11537
					Up to FL (34 x 78)	Yes	FL8768
+/-70	Door (Component)	8'0" x 8'0"	Rim Exit, Surface Vertical Rod	777E	Up to HG (32 x 42)	Yes	FL4553 FL10723
+/-70	Door (Component)	8'0" x 8'0"	Cylindrical Lock and Cylindrical Deadbolt Active, Flush Bolts or Surface Bolts Inactive; Mortise Lock (Latch Bolt and Dead Bolt) Active, Flush Bolts or Surface Bolts Inactive; Rim Exit, Surface Vertical Rod	777 777E	Flush	Yes	FL4553 FL10723
+/-70	Frame (Component)	8'0" x 8'0"	Concealed Vertical Rod, Mortise Lock (latch bolt and dead bolt) active, Surface bolts inactive, Rim Exit, Surface Vertical Rod	N/A	N/A	Yes	FL11537
						Yes	FL8768
+/-70	Door (Component)	4'0" x 8'0"	Concealed Vertical Rod, Mortise Lock (latch bolt & dead bolt), Rim Exit, Surface Vertical Rod	707, 727, or 747	Up to HG (32 x 42) Up to FL (34 x 78)	Yes	FL11537
						Yes	FL8768
+/-70	Door (Component)	4'0" x 8'0"	Cylindrical Lock, Mortise Lock (latch bolt & dead bolt) Active, Rim Exit, Surface Vertical Rod	777 777E	Flush	Yes	FL4553 FL10723
+/-70	Frame (Component)	4'0" x 8'0"	Concealed Vertical Rod, Mortise Lock (latch bolt and dead bolt), Rim Exit, Surface Vertical Rod	N/A	N/A	Yes	FL11537
						Yes	FL8768
+/-70	Door (Component)	3'0" x 7'0"	Mortise lock (latch bolt & dead bolt), Cylindrical lock and Deadbolt, Interconnected Lock	607, 707, 727 or 747	Up to HG (32 x 42) Up to FL (34 x 78)	Yes	FL11537
						Yes	FL8768
+/-70	Frame: ReadySet Frame (Component)	3'0" x 7'0"	Mortise lock (latch bolt & dead bolt), Cylindrical lock and Deadbolt, Interconnected Lock	N/A	N/A	Yes	FL8768
						Yes	FL8768

^A Manufactured offsite^B Large missile impact is 9 lb 2 x 4 at 80 ftt/second or 895 ft-lbs (Missile Level E)**NOTE:** Doors, frame, and hardware certified to: TAS 201, 202, 203, ASTM E330, E1886, E1996, ANSI A250.13.1) Products approved for use inside and outside high velocity Hurricane Zone (HVHZ). See Hurricane-Resistant Guide on website. www.curries.com

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Windstorm Certified Products Technical Data



May, 2020

Design Pressure	Product	Maximum Size of Opening	Hardware	Door	Face Type or Frame Glazing	For Use in the HVHZ ¹	FL Building Commission Approval Number
+/-62	Door and Frame Assembly	8'0" x 8'0"	Sargent HC8700	747	Flush	Yes	FL8394
+/-60	Door and Frame Assembly	6'0" x 7'0"	Sargent 8200 (latch bolt and deadbolt)	707	F	Yes	FL8394
+/-60	Door (Component)	6'0" x 8'0"	Concealed Vertical Rod, Mortise Lock (latch bolt and dead bolt) active, Surface bolts inactive, Rim Exit, Surface Vertical Rod	707, 727 or 747	Up to FG (24 x 66) Up to FL (24 x 78)	Yes	FL11537
+/-60	Frame With/Without Transom (Component)	Frame 6'0" x 8'0" or Transom Frame	Concealed Vertical Rod, Mortise Lock (latch bolt and dead bolt active), Surface bolts inactive, Rim Exit, Surface Vertical Rod	N/A	Glasslam Laminated Glass; 707 or 747 panels	Yes	FL11537
+/-60	Door (Component)	3'0" x 8'0"	Concealed Vertical Rod, Mortise Lock (latch bolt and dead bolt), Rim Exit, Surface Vertical Rod	707, 727 or 747	Up to FG (24 x 66) Up to FL (24 x 78)	Yes	FL11537
+/-60	Frame With/Without Transom (Component)	Frame 3'0" x 8'0" or Transom Frame	Concealed Vertical Rod, Mortise Lock (latch bolt and dead bolt), Rim Exit, Surface Vertical Rod	N/A	Glasslam Laminated Glass; 707 or 747 panels	Yes	FL11537
+/-60	Door (Component)	3'0" x 7'0"	Concealed Vertical Rod, Rim Exit, Surface Vertical Rod, Mortise Exit	607, 707, 727 or 747	Up to FG (24 x 66) Up to FL (24 x 78)	Yes	FL11537
+/-60	Door (Component)	3'0" x 7'0"	Mortise lock Cylindrical lock Interconnected Lock	607, 707, 727 or 747	Up to FG (24 x 66) Up to FL (24 x 78)	Yes	FL11537
+/-60	Door (Component)	6'0" x 7'0"	Rim Exit	607, 707, 727 or 747	Up to FG	Yes	FL11537
+/-60	Frame (Component) ReadySet	3'0" x 7'0"	Cylindrical lock Mortise Lock	N/A	N/A	Yes	FL11537
+/-60	Frame (Component)	3'0" x 7'0"	Cylindrical lock, Mortise Lock	N/A	N/A	Yes	FL11537
+/-60	Frame (Component) Max Door Size: 3'0" x 7'0"	Sidelight: 4'0" x 7'0"	Concealed Vertical Rod, Cylindrical lock Mortise Lock, Rim Exit, Surface Vertical Rod Interconnected Lock	N/A	Glasslam Laminated Glass; 707 or 747 panels	Yes	FL11537
+/-60	Frame (Component)	Transom: 3'0" x 10'2"	Concealed Vertical Rod, Cylindrical lock Mortise Lock, Rim Exit, Surface Vertical Rod Interconnected Lock	N/A	Glasslam Laminated Glass; 707 or 747 panels	Yes	FL11537
+/-60	Store Front	Frame: 10'0" height	N/A	N/A	Glasslam Laminated Glass 707 or 747 panels	Yes	FL11537
+/-57.2	Door and Frame Assembly	4'0" x 7'0"	Sargent HC8800	747	F	Yes	FL8394
+/-50	Door and Frame Assembly	8'0" x 8'0"	Sargent 10 line or 6500 Series with 480 deadbolt, 988 surface bolts both leafs	707	FGL up to 32" x 74"	Yes	FL8394
+/-50	Door Component	3'0" x 7'0"	Mortise Lock, Cylindrical Lock and Rim Exit	607 or 707	F	Yes	FL11537
+/-50	Frame Component	3'0" x 7'0"	Mortise Lock, Cylindrical Lock and Rim Exit	607 or 707	N/A	Yes	FL11537

NOTE: Doors, frame, and hardware certified to: TAS 201, 202, 203, ASTM E330, E1886, E1996, ANSI A250.13.

1) Products approved for use inside and outside high velocity Hurricane Zone (HVHZ). See Hurricane-Resistant Guide on website. www.curries.com

CURRIES Products That Meet FEMA 361 FEMA 320, and ICC 500 Guidelines

Windstorm Certified Products Technical Data

May, 2020

ICC 500-2014

Static Test Pressure	Static Design Pressure	Impact	Product	Maximum Size of Opening	Hardware	Door	Face Type	Certification Agency
+/- 341	+/- 284	15 lb 2 x 4 @ 100 mph	StormPro Door and Frame Assembly	2'8" x 6'8" to 4'0" x 8'0" Single or 5'4" x 6'8" to 8'0" Pair	FE 6600 Multi-Point Lock (Corbin FE 6600, Sargent FM 7300) Active or single 988CR, 988, inactive	StormPro 361	F FV	UL
+/-341	+/-284	15 lb 2 x 4 @ 100 mph	StormPro Door and Frame Assembly	3'0" x 6'8" to 4'0" x 8'0" Single or 6'0" x 6'8" to 8'0" x 8'0" Pair	Sargent FM8700	StormPro 361	F FV	UL
+/-341	+/- 284	15 lb 2 x 4 @ 100 mph	Door and Frame Shutter Assembly	2'6" x 3'0" to 4'0" x 6'8" ^ Single or 5'0" x 4'0" to 8'0" x 6'8" Pair	Corbin Russwin FE 6700, Sargent FM 6100	StormPro 361 Shutter	F	UL
+/-341	+/- 284	15 lb 2 x 4 @ 100 mph	StormPro Door and Frame Assembly	2'8" x 6'8" to 4'0" x 8'0" Single or 5'4" x 6'8" to 8'0" x 8'0" Pair	Multi Point Exit Corbin Russwin FE5400S, Corbin 707S or 708A Mullion Required for Pairs	StormPro 361	F FV	UL
+/-305	+/- 254	15 lb 2 x 4 @ 100 mph	StormPro Door and Frame Assembly	2'8" x 6'8" to 3'0" x 7'0"	SARGENT 10 Line 3 Medeco Maxim Dead Bolts	StormPro 320	F FV	UL

^ Reference StormPro 361 Door and Frame Multi-Point Lock construction for greater than 6'8" in height.

July, 2018

Fire Rated Impact Glazing

Design Pressure	Product	Maximum Size of Opening	Hardware	Door	Face Type or Frame Glazing	Certification Agency	Dade County Acceptance Number	Florida Building Commission Approval Number
+/-70	Frame w/wo Transom (Component)	3'0" x 8'0" single 6'0" x 8'0" pair Maximum frame size in masonry 13'6" x 8'0" 12'0" x 8'0" in stud walls	Concealed Vertical Rod, Mortise Lock (latch bolt & dead bolt active: Surface bolts inactive), Rim Exit, Surface Vertical Rod	N/A	Vetrotech Fire/Hurricane Impact Rated Glass	WHI	None	FL12537
+/-70	Window Frame	Maximum 13'6" x 8'0" in masonry 12'0" x 8'0" in stud walls	Concealed Vertical Rod, Mortise Lock (latch bolt & dead bolt active: Surface bolts inactive), Rim Exit, Surface Vertical Rod	N/A	Vetrotech Fire/Hurricane Impact Rated Glass	WHI	None	FL12537

NOTE: 70 psf transom sidelight frame may be fire rated up to and including 90 minutes. Use Vetrotech SGG Swissflam 45 IGU HI for 45 minute rated frames. Vetrotech SGG Contraflam 60 IGU HI for 60 minutes rated frames, and Vetrotech SGG Contraflam 90 IGU HI for 90 minute rated frames.

Doors rated at 70 psf and less may be fire rated up to and including 90 minutes using Vetrotech SGG Keralite FR-Ultra IGU HI. Maximum size 23" x 53"

DESIGN PRESSURE +/- 70 psf IMPACT MISSILE LEVEL - D 90 MINUTE MAXIMUM RATING CLEAR GLASS ONLY			
MAXIMUM FRAME SIZES			
MASONRY	MAXIMUM OVERALL TRANSOM FRAME SIZE		
	MASONRY	13'6" WIDTH	100" HEIGHT
	STUD CONSTRUCTION	12'0" WIDTH	100" HEIGHT
	MAXIMUM OVERALL SIDELIGHT FRAME SIZE		
	MASONRY	13'6" WIDTH	100" HEIGHT
	STUD CONSTRUCTION	12'0" WIDTH	100" HEIGHT
	MAXIMUM SINGLE OUT-SWING DOOR SIZE	36" WIDTH	96" HEIGHT
	MAXIMUM SINGLE IN-SWING DOOR SIZE	36" WIDTH	84" HEIGHT
	MAXIMUM PAIR OF OUT-SWING DOORS SIZE	72" WIDTH	96" HEIGHT
	MAXIMUM SIDE LIGHT OR PANEL OPENING SIZE	36" WIDTH	94" HEIGHT
	MAXIMUM VISIBLE LIGHT - 45/60 MINUTE	34-3/4" WIDTH	92-3/4" HEIGHT
	MAXIMUM VISIBLE LIGHT - 90 MINUTE	34-3/4" WIDTH	88-9/16" HEIGHT
WALL CONSTRUCTION BUILDING STRUCTURE	MAXIMUM TRANSOM LIGHT OR PANEL OPENING		
	MAXIMUM VISIBLE LIGHT	70-3/4" WIDTH	30" HEIGHT
FRAME CONSTRUCTION	16 GAUGE STEEL FRAME WITH REINFORCEMENTS AND WELDED CORNER CONSTRUCTION		
FRAME DIMENSIONS	JAMB AND MULLION DEPTH – MINIMUM - 5-3/4" - MAXIMUM - 14"		
	JAMB FACES - 2"		
	HEAD AND MULLION FACES - MINIMUM - 2" - MAXIMUM – 4"		
	SOFFIT – MINIMUM - 1"		
	RABBET (DOOR SIDE) – MINIMUM – 1-15/16"		
	1-5/16" THICKNESS - 45 MINUTE RATED GLASS - RECOMMEND 2-1/8" (2.125) RABBET		
	1-9/16" THICKNESS - 60 MINUTE RATED GLASS - RECOMMEND 2-3/8" (2.375) RABBET		
REMOVABLE STOPS	1-7/8" THICKNESS - 90 MINUTE RATED GLASS - RECOMMEND 2-11/16" (2.6875) RABBET		
	STOP HEIGHT (DOOR STOP AND GLAZING) MINIMUM – 5/8"		
	MATERIAL – COLD ROLLED, GALVANIZED, GALVANNEALED, OR STAINLESS STEEL		
	18 GAUGE STEEL		
ANCHORS	STOP DEPTH – MINIMUM 5/8"		
	FASTENERS - #8x 1-1/2" OVAL HEAD TEK SCREWS. LOCATED 2" FROM END AND 12" ON CENTER MAXIMUM		
DOOR	HURRICANE-RESISTANT LISTED AND FIRE RATED 707, 727, OR 747		
HARDWARE RESTRICTIONS	MAXIMUM VISIBLE LIGHT IN DOOR 23" WIDTH, 53" HEIGHT		
	TYPE 8 WINDOW KIT ONLY, 1-5/8" POCKET		
HARDWARE RESTRICTED TO WINDSTORM LISTED PRODUCTS			



October, 2012

DESIGN PRESSURE +/- 70 PSF
IMPACT MISSILE LEVEL - D 350 FT/LBS
NON FIRE RATED

LOUVER NOTES:

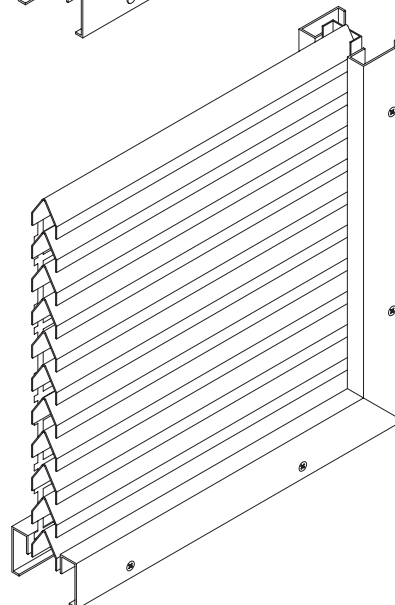
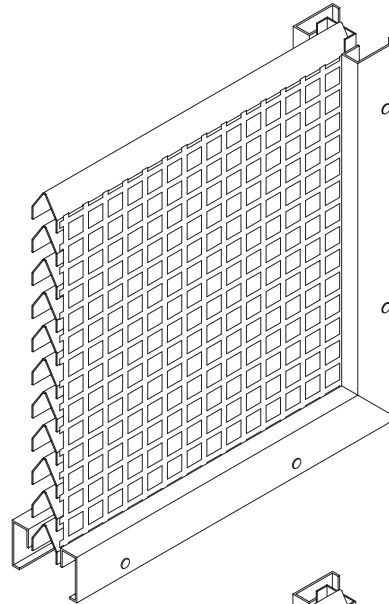
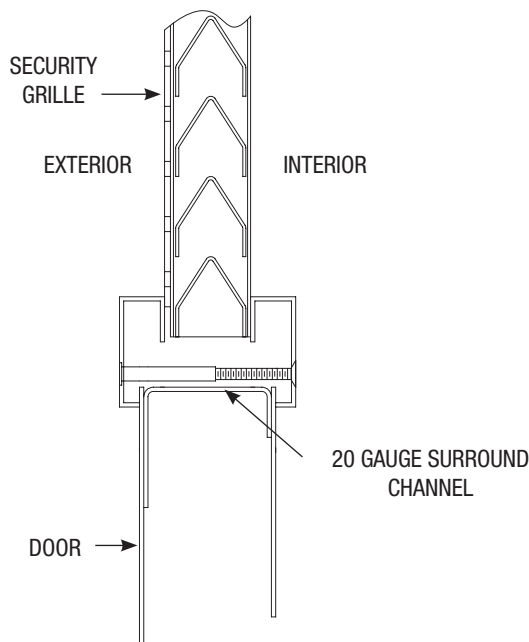
- CAN ONLY BE USED IN CURRIES 707 OR 747 DOOR CONSTRUCTION.
- ONLY CURRIES WL60 LOUVER CAN BE USED.
- LOUVER INCLUDES GALVANIZED MATERIAL AND SECURITY SCREEN.
- 20 GAUGE SURROUND CHANNEL MUST BE INSTALL ON PERIMETER OF LOUVER CUTOUT.
- MUST BE FACTORY INSTALL OR BY A UL OR WARNOCK WINDSTORM SECOND LOCATION.
- CAN BE USED WITH ANY HURRICANE-RESISTANT APPROVED HARDWARE.
- A 6" MINIMUM DIMENSION FORM STILE OR RAIL IS REQUIRED.
- BUG SCREEN IS OPTIONAL.
- FREE AIR FLOW = 40%

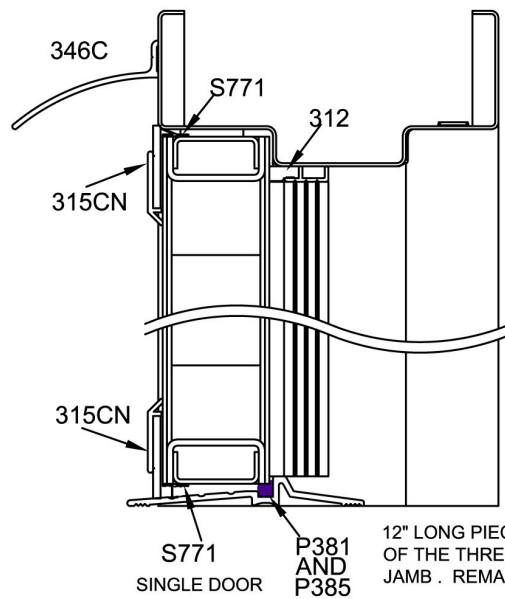
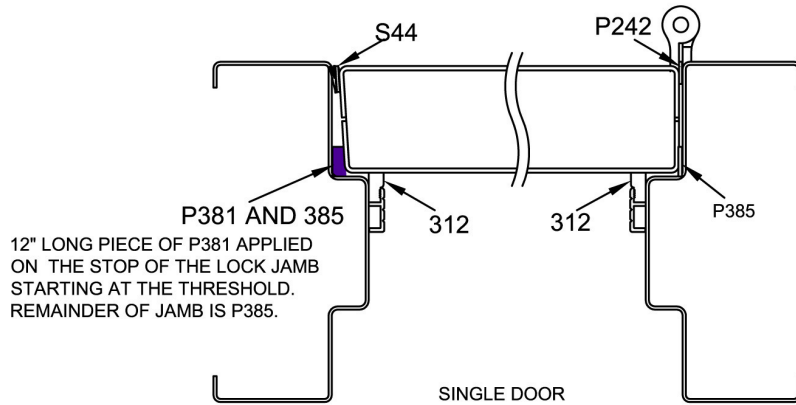
SIZES:

3070 DOOR – 12" MINIMUM, 24" MAXIMUM WIDTH
12" MINIMUM, 72" MAXIMUM HEIGHT

3080 DOOR – 12" MINIMUM, 24" MAXIMUM WIDTH
12" MINIMUM, 78" MAXIMUM HEIGHT

4080 DOOR – 12" MINIMUM, 34" MAXIMUM WIDTH
12" MINIMUM, 78" MAXIMUM HEIGHT





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Weather Strip for Water Infiltration Single Door Per ASTM 331/TAS 202 Design Pressure 60 PSF

Tornado

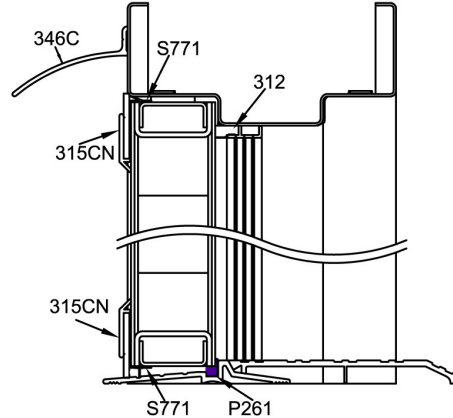
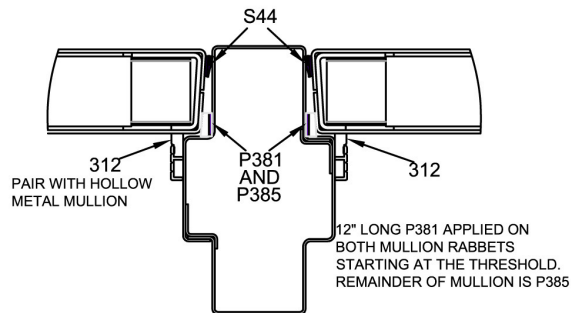
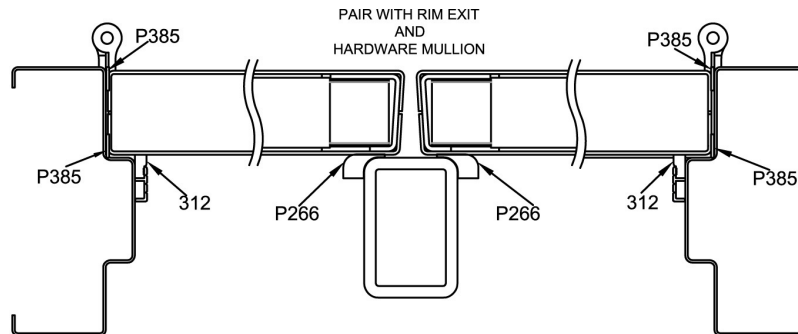


CURRIES

ASSA ABLOY

Windstorm Certified Products Technical Data

November, 2016



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