

# Impact-Resistant Entrances

Series 381 Medium Stile



## High Velocity Hurricane Zone (HVHZ) Applications

### Series 381 Medium Stile Impact-Resistant Entrances (Wet-Glazed)

#### Qualified System Configuration Chart

Design Pressure P.S.F.	Maximum Door Size		Maximum Glass Size		Qualified Glass Types
	Single	Double	D.L.O. (WxH)	Sq. Ft.	
Series 381 Medium Stile - Large Missle Impact					
+70/-80	42 x 96	84 x 96	32 <sup>3</sup> / <sub>16</sub> " x 81 <sup>1</sup> / <sub>16</sub> "	18.3	B

#### Hurricane Impact-Resistant Products Disclaimer Note

Coral's hurricane impact-resistant products meet a variety of test standards for applications in coastal construction regions satisfying the demands for wind-borne debris hazards and high-velocity winds associated with hurricanes. All of Coral's hurricane impact-resistant products are independent laboratory tested based on a variety of test standards for air infiltration, structural loads, missile impact and air-pressure cycling based on ASTM and/or Florida Building Code. The informational chart above is intended to provide recommended limits in frame heights, glass sizes and design pressures based on product testing. When exceeding conditions listed above, it is recommended to consult with a licensed structural engineer or contact Coral Architectural Products.

#### Hardware Applications

Locking and Closer Options		
Active Leaf	DH072 3-Point Lock with DH078 Cylinder and DH079 Thumbturn	
Inactive Leaf	DH176 Steel Tip Flush Bolts (2 each)	
Surface Applied Closer	Heavy Duty ANSI Grade 1 (Required)	
Concealed Overhead Closer	ANSI Grade 1 (Required)	
Hinging Options		
Type	Description	Quantity
Butt Hinges	DH110SS (Stainless Steel) 4½” x 4”	1½ Pairs
Continuous Geared Hinge	DH111HD (Heavy Duty)	Full Door Height
Panic Exit Devices Options		
First Choice*	3692-HR ANSI Grade 1	Concealed Vertical Rod
Jackson	2086-HR ANSI Grade 1	Concealed Vertical Rod

\*Note: Maximum tested door size 72" x 84"

#### Qualified Glass Types

Glass Type	Glass Composition			Interlayer Manufacturer	Glass Identification
	Exterior Lite	Interlayer	Interior Lite		
<sup>3</sup> / <sub>16</sub> " Monolithic Glass	<sup>1</sup> / <sub>4</sub> " Heat Strengthened Glass	.090 Saflex PVB Interlayer	<sup>1</sup> / <sub>4</sub> " Heat Strengthened Glass	Solutia	B

## High Velocity Hurricane Zone (HVHZ) Applications

### Series 381 Medium Stile Impact-Resistant Entrances (Dry-Glazed)

#### Qualified System Configuration Chart

Design Pressure P.S.F.	Maximum Door Size		Maximum Glass Size		Qualified Glass Types
	Single	Double	D.L.O. (WxH)	Sq. Ft.	
Series 381 Medium Stile - Large Missle Impact					
+70/-70	36 x 84	72 x 84	26 <sup>5</sup> / <sub>16</sub> " x 69 <sup>1</sup> / <sub>16</sub> "	12.7	D

#### Hurricane Impact-Resistant Products Disclaimer Note

Coral's hurricane impact-resistant products meet a variety of test standards for applications in coastal construction regions satisfying the demands for wind-borne debris hazards and high-velocity winds associated with hurricanes. All of Coral's hurricane impact-resistant products are independent laboratory tested based on a variety of test standards for air infiltration, structural loads, missile impact and air-pressure cycling based on ASTM and/or Florida Building Code. The informational chart above is intended to provide recommended limits in frame heights, glass sizes and design pressures based on product testing. When exceeding conditions listed above, it is recommended to consult with a licensed structural engineer or contact Coral Architectural Products.

#### Hardware Applications

Locking and Closer Options		
Active Leaf	DH072 3-Point Lock with DH078 Cylinder and DH079 Thumbturn	
Inactive Leaf	DH176 Steel Tip Flush Bolts (2 each)	
Surface Applied Closer	Heavy Duty ANSI Grade 1 (Required)	
Concealed Overhead Closer	ANSI Grade 1 (Required)	
Hinging Options		
Type	Description	Quantity
Butt Hinges	DH110SS (Stainless Steel) 4½" x 4"	1½ Pairs
Continuous Geared Hinge	DH111HD (Heavy Duty)	Full Door Height
Panic Exit Devices Options		
First Choice	3692-HR ANSI Grade 1	Concealed Vertical Rod
First Choice	3192-HR Midpanel	Concealed Vertical Rod
Jackson	2086-HR ANSI Grade 1	Concealed Vertical Rod

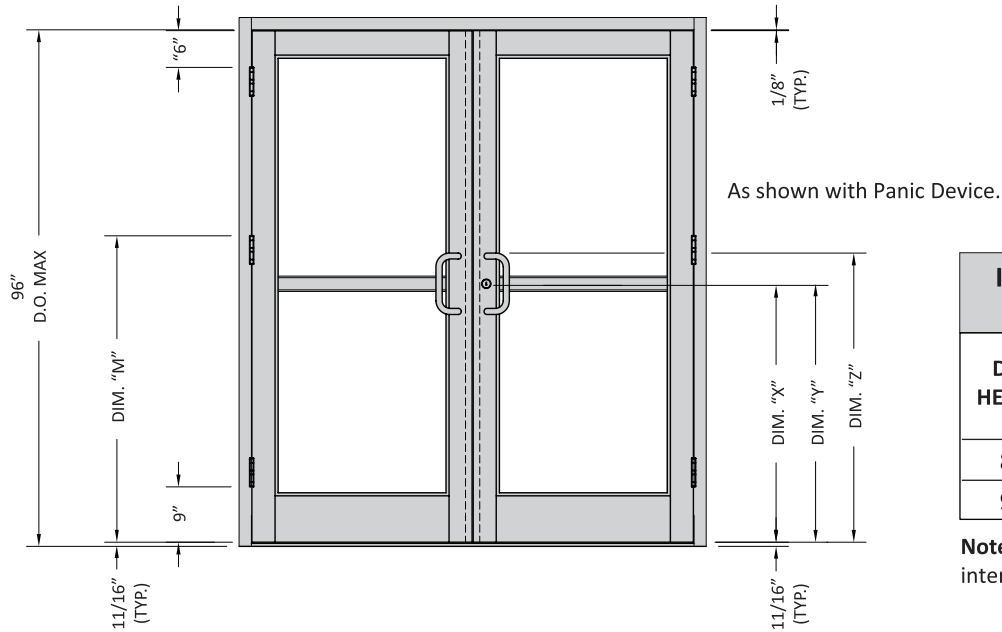
#### Qualified Glass Types

Glass Type	Glass Composition			Interlayer Manufacturer	Glass Identification
	Exterior Lite	Interlayer	Interior Lite		
$\frac{3}{16}$ " Monolithic Glass	$\frac{1}{4}$ " Heat Strengthened Glass	.090 SentryGlas	$\frac{1}{4}$ " Heat Strengthened Glass	DuPont™	D

# Impact-Resistant Entrances

## Series 381 Medium Stile

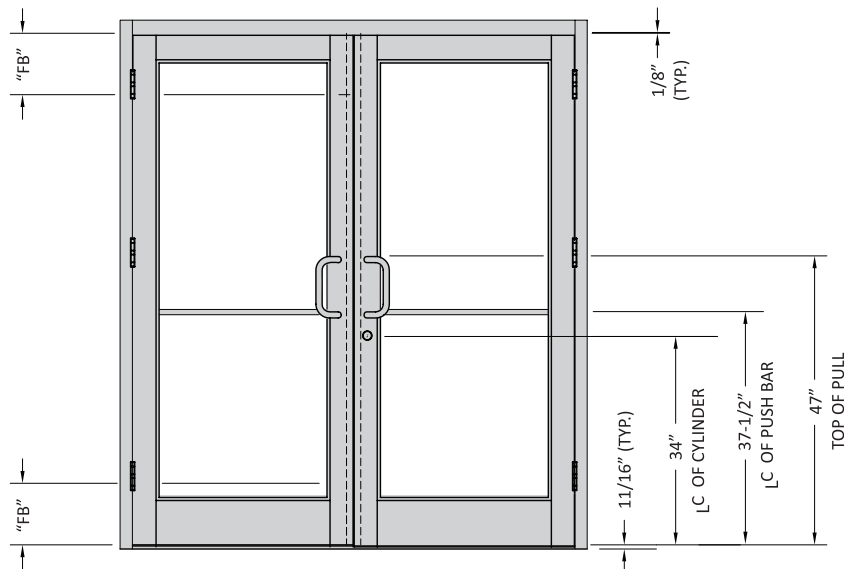
### Hardware and Hinge Locations



INTERMEDIATE HINGE	
D.O. HEIGHT	DIM. "M"
	BUTT HUNG
84"	45 <sup>11</sup> / <sub>32</sub> "
96"	51 <sup>11</sup> / <sub>32</sub> "

**Note:** All doors require an intermediate hinge.

HARDWARE LOCATIONS FOR PANIC DOORS				
MANUFACTURER	PANIC DEVICE	DIM "X" CL OF CYLINDER	DIM "Y" CL OF PANIC	DIM "Z" TOP OF PULL
JACKSON	2086 C.V.R.	37 <sup>7</sup> / <sub>8</sub> "	38 <sup>5</sup> / <sub>32</sub> "	42 <sup>7</sup> / <sub>8</sub> "
FIRST CHOICE	3692 C.V.R.	41 <sup>9</sup> / <sub>16</sub> "	40 <sup>5</sup> / <sub>8</sub> "	46 <sup>9</sup> / <sub>16</sub> "



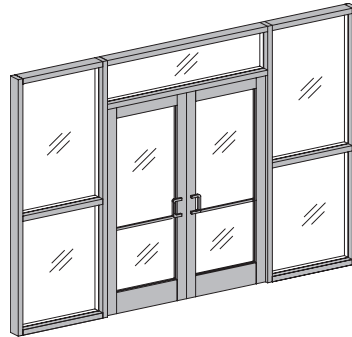
# Impact-Resistant Entrances

## Series 381 Medium Stile

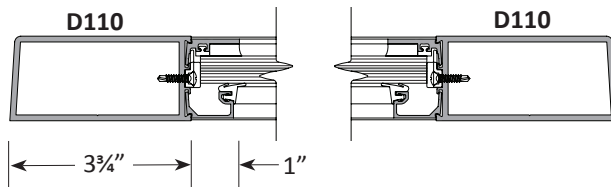
Standard Details - Single Acting Wet Glazed  
Scale: 3" = 1'-0"



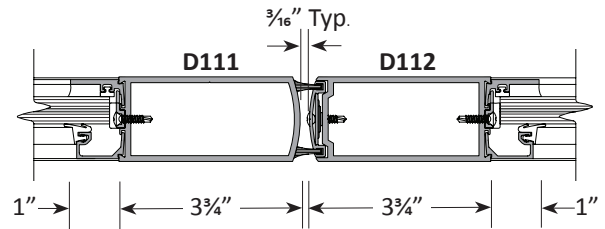
Single Door



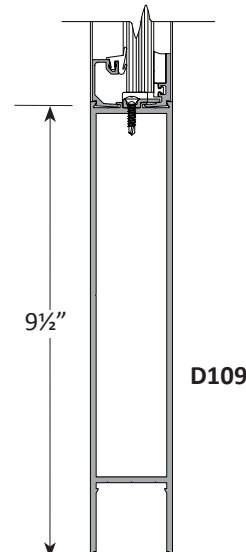
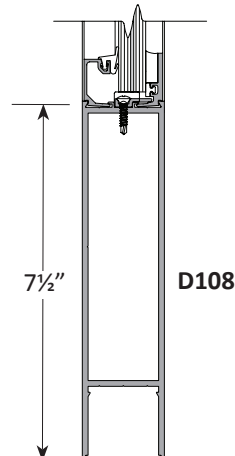
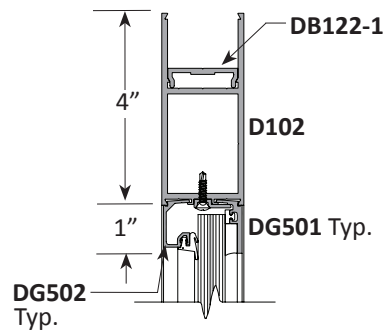
Pair of Doors



Single Door



Meeting stiles for door pair



# Impact-Resistant Entrances

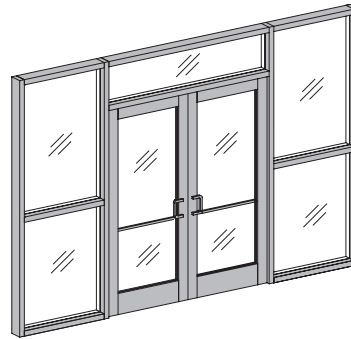
## Series 381 Medium Stile

### Standard Details - Single Acting Dry Glazed

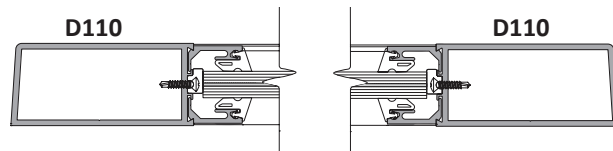
Scale: 3" = 1' - 0"



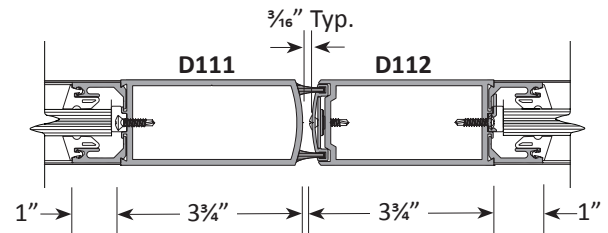
Single Door



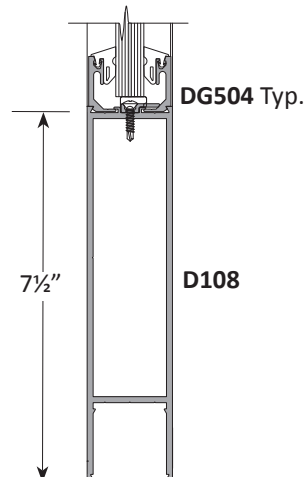
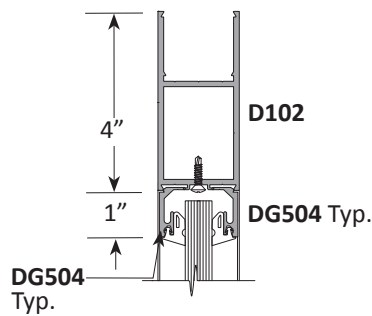
Pair of Doors



Single Door

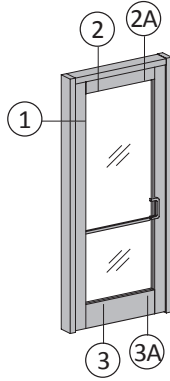


Meeting stiles for door pair

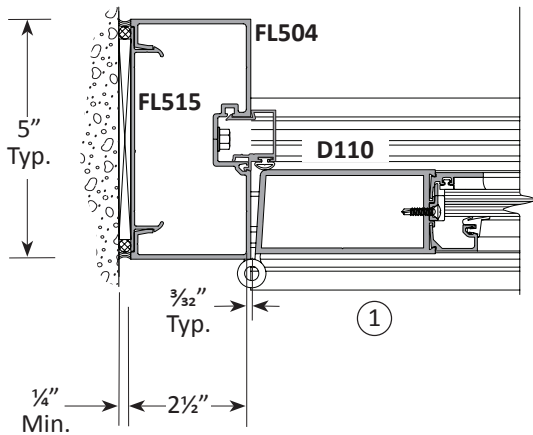


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## Series 381 Medium Stile

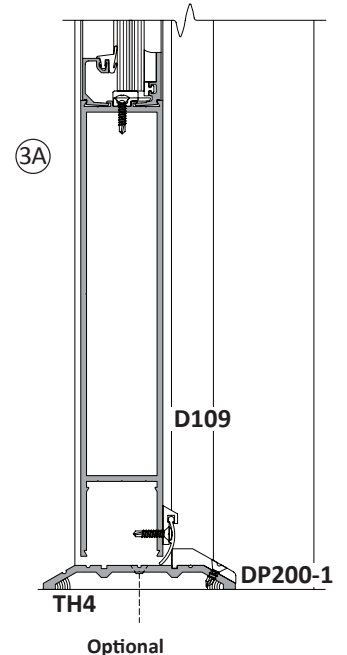
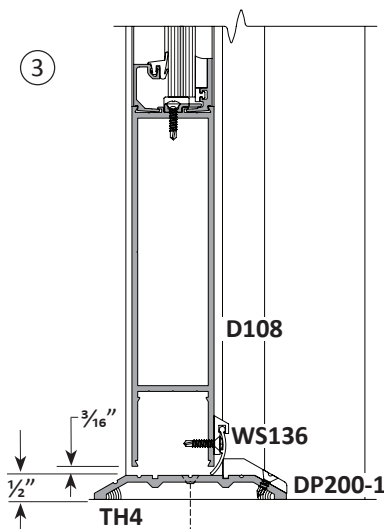
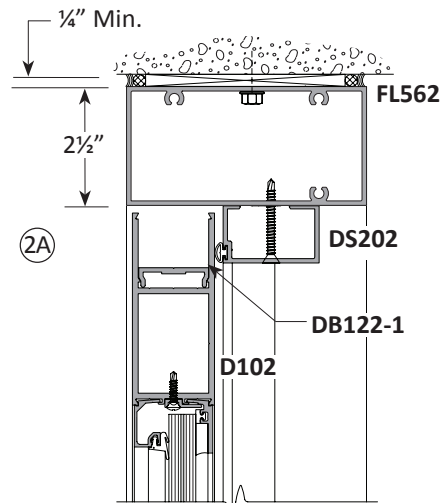
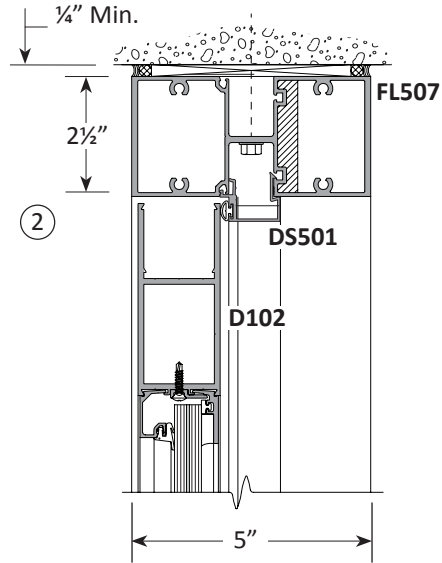


**Single Acting Doors  
Non-Transom Frame**



### Entrance Framing - Single Acting Non-Transom

Scale: 3" = 1'-0"

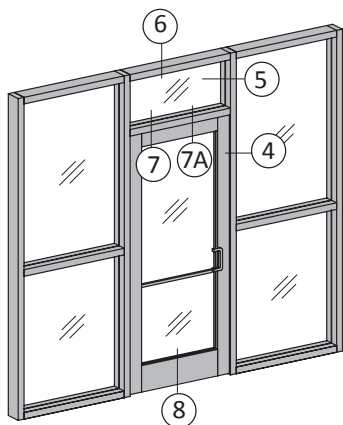


# Impact-Resistant Entrances

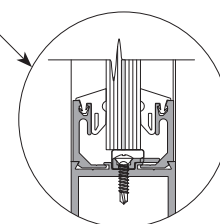
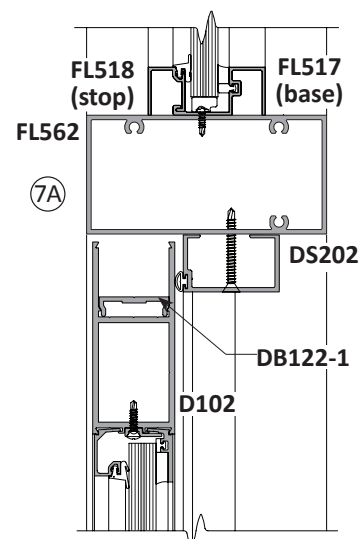
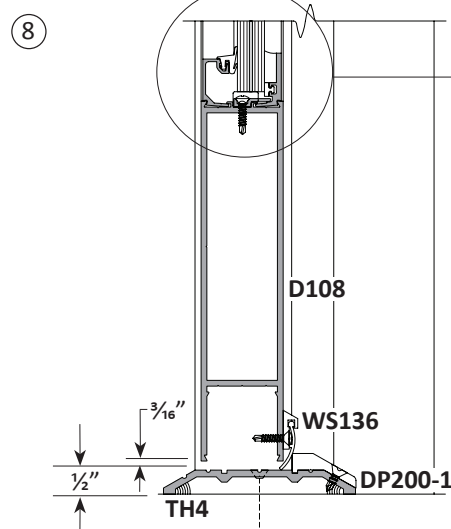
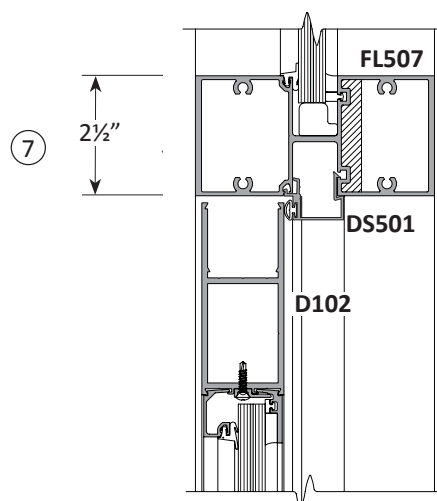
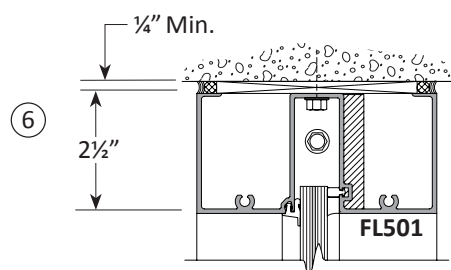
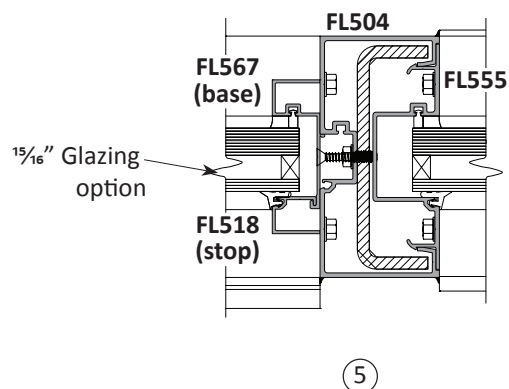
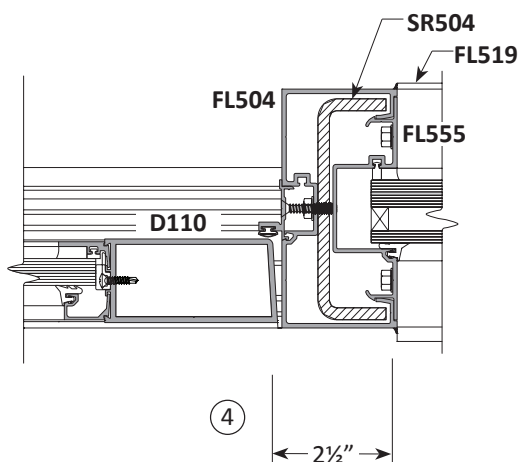
## Series 381 Medium Stile

### Entrance Framing - Single Acting with Transom

Scale: 3" = 1'-0"



**Single Acting Doors  
with Transom Frame**



**Dry-Glazed Option**