

High Velocity Hurricane Zone Applications

Series FL550 Wet Glazed Hurricane Impact-Resistant Storefront System

Qualified System Configuration Chart

Design Pressure P.S.F.	Intermediate Vertical Mullion	Wall Jamb Mullion	Maximum Mullion Span	Maximum Mullion Spacing CL to CL	Maximum Glass Size		Qualified Glass Types
					D.L.O. W x H	Sq. Ft.	
+60/-60	FL566/FL555 Heavy Duty Mullion	FL551	120"	48"	45½" x 96"	30.3	IA-IB
+65/-65	FL554/FL555	FL551	89"	48"	45½" x 84"	26.5	IA-IB
+70/-80	FL554/FL555 with SR504 Steel Reinforcement	FL551	120"	60"	57½" x 96"	38.3	1A

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, water resistance, structural loads, missile impact and air-pressure cycling based 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 licensed structural engineer or contact Coral Architectural Products.

Qualified Glass Types

Glass Type	Glass Composition			Interlayer Manufacturer	Glass Identification
	Exterior Lite	Air Space/Spacer Type	Interior Lite		
1½" Insulated Glass	¼" Heat Strengthened Glass	½" Air Space with Aluminum Box Spacer	¼" Heat Strengthened Glass .075 Vanceva Interlayer ¼" Heat Strengthened Glass	Solutia	IA
1½" Insulated Glass	¼" Heat Strengthened Glass	½" Air Space with Aluminum Box Spacer	¼" Heat Strengthened Glass .090 Saflex Interlayer ¼" Heat Strengthened Glass	Solutia	IB

Comparative Analysis of Glass Based on ASTM E-1300

Dade County Building Compliance Office allows comparative analysis of tested glass types provided the following five conditions are met:

1. Does not exceed maximum cyclic pressure tested.
2. Does not exceed maximum span of mullion tested.
3. Does not exceed maximum mullion spacing of mullion tested.
4. Does not exceed maximum square footage of largest lite tested.
5. Does not exceed aspect ratio of 5:1 (in a rectangular configuration, the ratio of the long-side to the short-side is defined as the aspect ratio).

High Velocity Hurricane Zone Applications

Series FL550 Dry Glazed Hurricane Impact-Resistant Storefront System

Qualified System Configuration Chart

Design Pressure P.S.F.	Intermediate Vertical Mullion	Wall Jamb Mullion	Maximum Mullion Span	Maximum Mullion Spacing CL to CL	Maximum Glass Size		Qualified Glass Types
					D.L.O. W x H	Sq. Ft.	
+45/-45	FL566/FL555 Heavy Duty Mullion	FL551	120"	60"	57½" x 96"	38.3	ID
+70/-70	FL554/FL555 with SR504 Steel Reinforcement	FL551	120"	60"	57½" x 96"	38.3	ID

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, water resistance, structural loads, missile impact and air-pressure cycling based 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 licensed structural engineer or contact Coral Architectural Products.

Qualified Glass Types

Glass Type	Glass Composition			Interlayer Manufacturer	Glass Identification
	Exterior Lite	Air Space/Spacer Type	Interior Lite		
1½" Laminated Glass	¼" Heat Strengthened Glass or Tempered	½" Air Space with Aluminum Box Spacer	¼" Heat Strengthened Glass .090 Sentry Glass Interlayer ¼" Heat Strengthened Glass	DuPont™	ID

Comparative Analysis of Glass Based on ASTM E-1300

Florida Product Control Office allows comparative analysis of tested glass types provided the following five conditions are met:

1. Does not exceed maximum cyclic pressure tested.
2. Does not exceed maximum span of mullion tested.
3. Does not exceed maximum mullion spacing of mullion tested.
4. Does not exceed maximum square footage of largest lite tested.
5. Does not exceed aspect ratio of 5:1 (in a rectangular configuration, the ratio of the long-side to the short-side is defined as the aspect ratio).