**High Velocity Hurricane Zone (HVHZ) Applications**

**Series 281 Narrow Stile Impact-Resistant Entrances (Wet-Glazed)**

### Qualified System Configuration Chart

<table>
<thead>
<tr>
<th>Design Pressure P.S.F.</th>
<th>Maximum Door Size</th>
<th>Maximum Glass Size</th>
<th>Qualified Glass Types</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Single</strong></td>
<td><strong>Double</strong></td>
<td>D.L.O. (WxH)</td>
<td>Sq. Ft.</td>
</tr>
<tr>
<td>Polyurethane Foam</td>
<td>36 x 84</td>
<td>29&quot; x 71 3/8&quot;</td>
<td>14.7 B</td>
</tr>
</tbody>
</table>

#### 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 information 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

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butt Hinges</td>
<td>DH110SS (Stainless Steel) 4½&quot; x 4&quot;</td>
<td>1½ Pairs</td>
</tr>
<tr>
<td>Continuous Geared Hinge</td>
<td>DH111HD (Heavy Duty)</td>
<td>Full Door Height</td>
</tr>
</tbody>
</table>

#### Panic Exit Devices Options

- **Jackson**: 2086-HR ANSI Grade 1

### Qualified Glass Types

<table>
<thead>
<tr>
<th>Glass Type</th>
<th>Glass Composition</th>
<th>Interlayer Manufacturer</th>
<th>Glass Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>¾&quot; Monolithic Glass</td>
<td>½&quot; Heat Strengthened Glass</td>
<td>Solutia</td>
<td>B</td>
</tr>
</tbody>
</table>
Impact-Resistant Entrances
Series 281 Narrow Stile

Hardware and Hinge Locations

INTERMEDIATE HINGE

<table>
<thead>
<tr>
<th>D.O. HEIGHT</th>
<th>DIM. “M”</th>
<th>BUTT HUNG</th>
</tr>
</thead>
<tbody>
<tr>
<td>84“</td>
<td>45½”</td>
<td></td>
</tr>
</tbody>
</table>

Note: All doors require an intermediate hinge.

HARDWARE LOCATIONS FOR PANIC DOORS

<table>
<thead>
<tr>
<th>MANUFACTURER</th>
<th>PANIC DEVICE</th>
<th>DIM “X”</th>
<th>DIM “Y”</th>
<th>DIM “Z”</th>
<th>TOP OF PULL</th>
</tr>
</thead>
<tbody>
<tr>
<td>JACKSON</td>
<td>2086 C.V.R.</td>
<td>37 7/8”</td>
<td>38 3/16”</td>
<td>42 7/16”</td>
<td></td>
</tr>
</tbody>
</table>

As shown with Panic Device.
Impact-Resistant Entrances

Series 281 Narrow Stile

Standard Details - Single Acting
Scale: 3” = 1’- 0”

Single Door

Pair of Doors

D103

D103

D101

D102

DB122-1

Required for offset arm.

DG501 Typ.

DG502 Typ.

D108

D109

D104

D106/D105

Meeting stiles for door pair

1”

2½”

2½”

1”

$\frac{3}{4}”$ Typ.

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March 2016
Impact-Resistant Entrances
Series 281 Narrow Stile

Entrance Framing - Single Acting Non-Transom
Scale: 3” = 1’- 0”
Impact-Resistant Entrances
Series 281 Narrow Stile

Entrance Framing - Single Acting with Transom
Scale: 3” = 1’-0”