PRODUCT APPROVAL DRAWINGS SERIES 381 IMPACT-RESISTANT DOORS WITH MULTIPLE GLAZING INFILLS & HARDWARE

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SHEET 12: PERIMETER FASTENER LOCATIONS - FL500 DOORFRAME - WOOD SUBSTRATE
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SHEET 14: HARDWARE LOCATIONS

GENERAL NOTES:

TEST STANDARDS

AS8-983
AS8-9503
AS8-9503A
AS8-9503B

DESIGN PRESSURE

+70/-60 PSF

WATER INFLITRATION: NOT TESTED FOR WATER
AIR INFLITRATION: 6.24 PSF

TYPICAL GLASS BITE IS 3/4" UNLESS OTHERWISE NOTED

ALL ALUMINUM EXTRUSIONS SHALL BE MADE FROM 6063-T6.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH FLORIDA BUILDING CODE ADDENDUM 2004 INCLUDING HIGH VELOCITY HURRICANE ZONES.

MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREW, THAT COME IN CONTACT WITH DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2004 FLORIDA BUILDING CODE SECTION 2038.64

FL500 AND FL550 FRAMING ARE UNDER SEPARATE SUBMISSIONS

ABBREVIATIONS:

D.O.C. = DAY LIGHT OPENING
D.O.H. = DOOR OPENING HEIGHT
D.O.W. = DOOR OPENING WIDTH
C.O.C. = CONCEALED OVERHEAD CLOSER
C.V.R. = CONCEALED VERTICAL ROD
TYP. = TYPICAL
S.A.C. = SURFACE APPLIED CLOSER

DEFINITIONS: DICTIONARY OF ARCHITECTURE & CONSTRUCTION–2ND EDITION

1. SIDE LIGHT – A FRAMED AREA OF FIXED GLASS ALONGSIDE A DOOR
2. TRANSOM FRAME – A DOORFRAME WITH A TRANSOM BAR AND GLASS ABOVE THE DOOR

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FLA. P.E. #21959

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P.O. Box 620
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TYPICAL ELEVATIONS FOR SERIES 381 IMPACT DOORS
INSTALLED IN FL500 FRAMING WITH TRANSOM

(SEE SHEET 13 FOR HARDWARE OPTIONS)

DESIGN PRESSURE +70/-80 PSF.

NOTES:
1. SEE SHEETS 10–12 FOR DOOR FRAME PERIMETER FASTENER LOCATIONS.
2. DOOR GLASS SIZE = D.L.O. + 1 - 1/2".
3. SEE FL500 PRODUCT APPROVALS FOR OTHER FRAME AND GLAZING OPTIONS.
4. DOOR GLASS STOPS DG501 AND DG502 MAY BE REVERSED.
5. THESE DOORS WERE NOT TESTED FOR WATER INFILTRATION.
TYPICAL ELEVATIONS FOR SERIES 381 IMPACT DOORS
INSTALLED IN FL500 FRAMING WITHOUT TRANSOM
(SEE SHEET 13 FOR HARDWARE OPTIONS)

DESIGN PRESSURE +70/-80 PSF.

NOTES:
1. SEE SHEETS 10-12 FOR DOOR FRAME PERIMETER FASTENER LOCATIONS.
2. DOOR GLASS SIZE = D.L.O. + 1½".
3. SEE FL500 PRODUCT APPROVALS FOR OTHER FRAME AND GLAZING OPTIONS.
4. DOOR GLASS TOPS DG501 AND DG502 MAY BE REVERSED.
5. THESE DOORS WERE NOT TESTED FOR WATER INFILTRATION.
5 - TOP RAIL @ DOORFRAME HEADER FOR S.A.C.

6 - ADA BOTTOM RAIL @ THRESHOLD

7 - TOP RAIL @ TRANSOM HEADER WITH C.O.C. FOR OFFSET ARM

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TYPICAL TOP RAIL CORNER CONSTRUCTION

NOTE: DOOR CORNERS ARE NOT WELDED

TYPICAL BOTTOM RAIL CORNER CONSTRUCTION

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11 - TRANSOM JAMB @ WALL

12 - TRANSOM JAMB @ SIDE LIGHT

SCALE: 6" = 1'-0"
### GLAZING SCHEDULE

#### TYPICAL DOOR GLASS SIZE
- DLO: 115\* 15/16" G.L.

#### MAXIMUM DESIGN PRESSURE
- +/- 65 PSF

#### OPTIONS AND LIMITATIONS

<table>
<thead>
<tr>
<th>GLASS MARK SYMBOL</th>
<th>GLASS TYPE</th>
<th>MANUFACTURER</th>
<th>MAXIMUM DLO (INCHES)</th>
<th>MAXIMUM SQUARE FEET</th>
<th>MAX. D.O. (INCHES)</th>
<th>MAX. D.O. (INCHES) SINGLE</th>
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<tbody>
<tr>
<td>B</td>
<td>1/4&quot; H.S. - .090 SAFLEX PVB SOLUTIA INTERLAYER</td>
<td>VARIES</td>
<td>32 5/16 X 81 11/16</td>
<td>18.3</td>
<td>84 X 96</td>
<td>42 X 96</td>
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<tr>
<td>B</td>
<td>1/4&quot; H.S. - .120 TYPE &quot;S&quot; UVEKOL INTERLAYER</td>
<td>CORAL INDUSTRIES, INC.</td>
<td>32 5/16 X 81 11/16</td>
<td>18.3</td>
<td>84 X 96</td>
<td>42 X 96</td>
</tr>
</tbody>
</table>

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**Lewis A. Waldrop, P.E.**

**FLA. P.E. #21959**
<table>
<thead>
<tr>
<th>ITEM NO</th>
<th>P/N</th>
<th>DESCRIPTION</th>
<th>DIMENSIONS</th>
<th>MATERIAL</th>
<th>MANUFACTURER</th>
<th>NOTES</th>
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<tr>
<td>1</td>
<td>BP450</td>
<td>STEEL BACK UP PLATE/FLUSH BOLT GUIDE</td>
<td>1.475 X 3.282 X 3.062 X 0.180</td>
<td>TIN PLATED STEEL</td>
<td>VARIES</td>
<td>USED TOP &amp; BOTTOM (2)</td>
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<tr>
<td>3</td>
<td>CB102</td>
<td>DOOR - CORNER BLOCK</td>
<td>2.130 X 2.540 X 0.250</td>
<td>TIN PLATED STEEL</td>
<td>VARIES</td>
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<tr>
<td>5</td>
<td>CB108</td>
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<td>5</td>
<td>CS501-1</td>
<td>GLASS STOP CLIP</td>
<td>0.178 X 0.769 X 0.068</td>
<td>TIN PLATED STEEL</td>
<td>VARIES</td>
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<tr>
<td>7</td>
<td>D012</td>
<td>DOOR RAIL</td>
<td>4.000 X 1.710 X 0.120</td>
<td>TIN PLATED STEEL</td>
<td>VARIES</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>D016</td>
<td>DOOR - ADJUSTABLE ASTRAGAL</td>
<td>0.331 X 1.562 X 0.062</td>
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<td>9</td>
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<td>10</td>
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<td>DOOR - ADA BOTTOM RAIL</td>
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<td>11</td>
<td>D0110</td>
<td>DOOR - HINGE STILE</td>
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<td>13</td>
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<td>DOOR - ACTIVE MEETING STILE</td>
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<td>14</td>
<td>DB122-1</td>
<td>CHANNEL SPACER</td>
<td>4.406 X 1.455 X 0.090</td>
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<td>CUT 1 1/2&quot; LONG</td>
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<td>15</td>
<td>D5001</td>
<td>DOOR - GLASS STOP - ATTACHED</td>
<td>1.000 X 0.530 X 0.100</td>
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<td>16</td>
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<tr>
<td>17</td>
<td>NG11</td>
<td>EXTERIOR GLAZING GASKET</td>
<td>0.188 SPACE</td>
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<tr>
<td>18</td>
<td>NG13</td>
<td>SPACER GASKET FOR</td>
<td>0.201 X 0.288</td>
<td>TIN PLATED STEEL</td>
<td>VARIES</td>
<td></td>
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<tr>
<td>19</td>
<td>SB111</td>
<td>DOOR - SETTING/EDGE BLOCK</td>
<td>0.312 X 0.523 X 4.000&quot;</td>
<td>TIN PLATED STEEL</td>
<td>VARIES</td>
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<tr>
<td>20</td>
<td>SP100</td>
<td>ADJUSTABLE ASTRAGAL SPRING</td>
<td>1.095 X 0.486 X 0.065</td>
<td>TIN PLATED STEEL</td>
<td>VARIES</td>
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<td>21</td>
<td>S5555</td>
<td>SILICONE - GLASS TO METAL &amp; INTERNAL</td>
<td>FILL SPACE</td>
<td>SOFT VINYL</td>
<td>VARIES</td>
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<td>22</td>
<td>VG1</td>
<td>WEATHERING FOR (WSTO0) DOOR SWEET</td>
<td>1.142 X 0.120 X 0.060</td>
<td>TIN PLATED STEEL</td>
<td>VARIES</td>
<td></td>
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<td>23</td>
<td>WSTO0</td>
<td>DOOR SWEEP</td>
<td>0.812 X 0.302 X 0.125</td>
<td>TIN PLATED STEEL</td>
<td>VARIES</td>
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<td>24</td>
<td>WP106</td>
<td>WEATHERING &amp; ADJUSTABLE ASTRAGAL</td>
<td>VARIABLE SPACE</td>
<td>TIN PLATED STEEL</td>
<td>VARIES</td>
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<tr>
<td>25</td>
<td>AS4</td>
<td>CAP BOLT</td>
<td>3/16&quot; - 16 X 3/4&quot; HWD</td>
<td>TIN PLATED STEEL</td>
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<tr>
<td>26</td>
<td>AS4</td>
<td>CAP BOLT</td>
<td>3/16&quot; - 16 X 3/4&quot; HWD</td>
<td>TIN PLATED STEEL</td>
<td>VARIES</td>
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<tr>
<td>27</td>
<td>AS7</td>
<td>FASTENER</td>
<td>8 X 3/4&quot; POH S.D.</td>
<td>TIN PLATED STEEL</td>
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<td>28</td>
<td>AS13</td>
<td>SQUARE NUT</td>
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<td>29</td>
<td>AS41</td>
<td>3/8&quot; LOCK WASHER</td>
<td>0.377 X 0.141 X 1.094</td>
<td>TIN PLATED STEEL</td>
<td>VARIES</td>
<td></td>
</tr>
</tbody>
</table>

Lewis A. Waldrop, P.E.
FLA. P.E. #21859

DRAWS FOR
DADE COUNTY
PRODUCT APPROVAL

DATE: 1/8/2008
DRAWN BY:
PROJECT NO. 381_03

P. O. Box 820
Alto, GA 30510
706-778-3784

Lewis A. Waldrop, P.E.
PERIMETER FASTENER LOCATIONS

TYPICAL INSTALLATION INTO:
CONCRETE SUBSTRATE MIN. 2,500 P.S.I.

ANCHOR LOCATIONS FOR "LETTER" DIM.

<table>
<thead>
<tr>
<th>DOOR OPENING HEIGHT</th>
<th>A'</th>
<th>B'</th>
<th>C'</th>
<th>D'</th>
<th>E'</th>
<th>F'</th>
</tr>
</thead>
<tbody>
<tr>
<td>84&quot;</td>
<td>45&quot;</td>
<td>51&quot;</td>
<td>76&quot;</td>
<td>82&quot;</td>
<td>89&quot;</td>
<td>95&quot;</td>
</tr>
<tr>
<td>96&quot;</td>
<td>45&quot;</td>
<td>51&quot;</td>
<td>88&quot;</td>
<td>94&quot;</td>
<td>100&quot;</td>
<td>106&quot;</td>
</tr>
</tbody>
</table>

TYPICAL INSTALLATION INTO: 2,500 PSI CONCRETE SUBSTRATE

- 3/8" x 4-1/2" LDT, 2 MIN. EMBEDMENT WITH FILLER PLATE FULL LENGTH OF MULLION
- 3/8" x 4-1/2" LDT, 2 MIN. EMBEDMENT
- 1/4" x 2-1/2" FH TAPCON, 1-3/4" MIN. EMBEDMENT
- 6" MIN. SPACING @ 3/8" TAPCON
- 3" MIN. SPACING @ 1/4" TAPCON

MAXIMUM DESIGN PRESSURE: ±70/-80

NOTES:
Δ = STRUCTURAL FASTENERS NOT REQUIRED AT THRESHOLD.

EACH LINE REPRESENTS ONE FASTENER

Lewis A. Waldrop, P.E.
FLA. P.E. #21999

[Signature]

Conal

PRODUCT APPROVAL DRAWINGS
SERIES 331 DOORS IMPACT FL500 DOORFRAME

PERIMETER FASTENER CHARTS

P.O. Box 620
Arlington, VA 22203
1-800-336-3766

DRAWINGS FOR
DADE COUNTY
PRODUCT APPROVAL

381_03
10 OF 14
### PERIMETER FASTENER LOCATIONS

**TYPICAL INSTALLATION INTO:**
1/4" MIN. THICK STEEL SUBSTRATE

<table>
<thead>
<tr>
<th>Door Opening Height</th>
<th>Anchor Locations for &quot;Letter&quot; Dim.</th>
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<tbody>
<tr>
<td>84&quot;</td>
<td>45&quot; 51&quot; 76&quot; 82&quot; 89&quot; 95&quot;</td>
</tr>
<tr>
<td>96&quot;</td>
<td>45&quot; 51&quot; 88&quot; 94&quot; 100&quot; 106&quot;</td>
</tr>
</tbody>
</table>

**TYP. INSTALLATION INTO:**
STEEL SUBSTRATE

- 3/8-16 x 3 1/2" HW #9 TCS SCREW
- 3/8-16 x 1 1/2" HWH TYPE #9 TCS SCREW
- 3/4-12 x 1 1/2" PTH #3 TEK SCREW 2" MIN SPACING

**MAXIMUM DESIGN PRESSURE**
+70/-80

**NOTES:**

- Δ = STRUCTURAL FASTENERS
- NOT REQUIRED AT THRESHOLD.

**Legend:**
- Each line represents one fastener.

---

**Conal**

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FLA. P.E. #21959

1/21/09
PERIMETER FASTENER LOCATIONS

TYPICAL INSTALLATION INTO:
MIN. #2 SYP WOOD SUBSTRATE - THICKNESS DETERMINED BY MIN. EMBEDMENT REQ'D

<table>
<thead>
<tr>
<th>DOOR OPENING HEIGHT</th>
<th>'A'</th>
<th>'B'</th>
<th>'C'</th>
<th>'D'</th>
<th>'E'</th>
<th>'F'</th>
<th>'G'</th>
<th>'H'</th>
<th>'J'</th>
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</thead>
<tbody>
<tr>
<td>84&quot;</td>
<td>45&quot;</td>
<td>48&quot;</td>
<td>51&quot;</td>
<td>78&quot;</td>
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<td>92&quot;</td>
<td>94&quot;</td>
<td>100&quot;</td>
<td>102&quot;</td>
<td>104&quot;</td>
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ANCHOR LOCATIONS FOR "LETTER" DIM.

TYP. INSTALLATION INTO:
WOOD SUBSTRATE
- 3/8" LAG BOLT WITH FILLER PLATE FULL LENGTH, 3" MIN. EMBEDMENT
- 3/8" X 3-1/2" LAG BOLT, 3" MIN. EMBEDMENT
* #14 X 2-1/2" WOOD SCREW
EDGE DISTANCE 1-1/2", MIN. SPACING IS 2". WOOD STRUCTURE IS MIN. #2 SYP

MAXIMUM DESIGN PRESSURE +70/-80

NOTES:
Δ = STRUCTURAL FASTENERS NOT REQUIRED AT THRESHOLD.

LEGEND

SINGLE LINE REPRESENTS ONE FASTENER

Lewis A. Waldrop, P.E.
FLA. P.E. #21959

2/16/09
# Hardware Schedules

**Dade County Product Approval**

<table>
<thead>
<tr>
<th>Impact</th>
<th>Door Mark</th>
<th>Door: # Typical</th>
<th>Elev: Typical</th>
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<tbody>
<tr>
<td>x</td>
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**Door Hinging**

<table>
<thead>
<tr>
<th>Door Type</th>
<th>Series 381</th>
<th>Locking Device</th>
<th>Manufacturer</th>
<th>Notes</th>
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<tbody>
<tr>
<td>B.H.</td>
<td>x</td>
<td>DH072</td>
<td>x</td>
<td>Varies 3 Point Lock</td>
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**Hardware Description**

<table>
<thead>
<tr>
<th>Hardware Description</th>
<th>Part Number</th>
<th>Qty</th>
<th>Manufacturer</th>
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<tbody>
<tr>
<td>Butt Hinge 4 1/2&quot; x 4&quot;</td>
<td>DH109</td>
<td>6</td>
<td>Hager</td>
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<tr>
<td>Pull Handle</td>
<td>PH1-10</td>
<td>1</td>
<td>Coral</td>
</tr>
<tr>
<td>Push Bar</td>
<td>PB1-39</td>
<td>1</td>
<td>Coral</td>
</tr>
<tr>
<td>Cylinder (Active)</td>
<td>DH078</td>
<td>1</td>
<td>Varies</td>
</tr>
<tr>
<td>Thumb Turn (Active)</td>
<td>DH079</td>
<td>1</td>
<td>Varies</td>
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<tr>
<td>Lock (Active)</td>
<td>DH072 (3-PT. LOCK)</td>
<td>1</td>
<td>Varies</td>
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<tr>
<td>Flush Bolt (Inactive)</td>
<td>TOP/ST 84&quot; Door</td>
<td>DH176</td>
<td>Varies</td>
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<tr>
<td>Flush Bolt (Inactive) Only 96&quot; Door</td>
<td>DH176-96</td>
<td>Varies</td>
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<tr>
<td>Door Bottom Sweep</td>
<td>WS142</td>
<td>2</td>
<td>Coral</td>
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</table>

**Notes:**

S.A.C. or C.O.C. is Optional

---

**Dade County Product Approval**

<table>
<thead>
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<th>Door Mark</th>
<th>Door: # Typical</th>
<th>Elev: Typical</th>
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**Door Hinging**

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<tr>
<th>Door Type</th>
<th>Series 381</th>
<th>Locking Device</th>
<th>Manufacturer</th>
<th>Notes</th>
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<tr>
<td>B.H.</td>
<td>x</td>
<td>Jackson</td>
<td>x</td>
<td>2086 CVR Panic</td>
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**Hardware Description**

<table>
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<th>Part Number</th>
<th>Qty</th>
<th>Manufacturer</th>
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<td>CL205 H.D. W/ O. A. Assy</td>
<td>2</td>
<td>Jackson</td>
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<tr>
<td>Butt Hinge 4 1/2&quot; x 4&quot;</td>
<td>DH109</td>
<td>6</td>
<td>Hager</td>
</tr>
<tr>
<td>Pull Handle</td>
<td>PH401</td>
<td>2</td>
<td>Coral</td>
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<tr>
<td>Cylinder (Active)</td>
<td>DH073</td>
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<td>Panic Stop</td>
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<td>TH4</td>
<td>1</td>
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<tr>
<td>Door Bottom Sweep</td>
<td>WS142</td>
<td>2</td>
<td>Coral</td>
</tr>
</tbody>
</table>

**Notes:**

S.A.C. or C.O.C. is Optional
STANDARD HARDWARE LOCATIONS FOR SERIES 381
OFFSET HUNG HURRICANE IMPACT-RESISTANT DOORS

WITH JACKSON 2086 EXIT DEVICE &
1-1/2" PAIR BUTT HINGES

(DH072) 3-POINT LOCK (ACTIVE) AND (DH176) FLUSH BOLTS (INACTIVE)
WITH 1-1/2" PAIR BUTT HINGES

INTERMEDIATE
HINGE LOCATION

DIMENSIONS:
- B.O. HINGE
- BUTT HINGE
- 84" 45-11/32"
- 96" 51-11/32"

ATTACHMENT LOCATIONS
FOR DS202-1 DOOR STOP AT HEADER
(84" OR 96" DOOR HEIGHT)

P/N | DESCRIPTION | DIM (FB)
--- | ----------- | -----
DH176-96 | TOP FLUSH BOLT (FOR 96" DOOR HINGE) | 22"
DH176 | BOTTOM FLUSH BOLT (FOR 84"/96" DOOR HINGE) | 10"

Lewis A. Waldrop, P.E.
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Alto, GA 30510
706-778-3784

ATTACHMENT LOCATIONS
FOR CSS01-1 GLASS STOP CLIP
(84" OR 96" D.O.H.)

ATTACHMENT LOCATIONS
FOR DS500-1 DOOR STOP
(84" OR 96" D.O.H.)

Lewis A. Waldrop, P.E.
FLA, P.E. #21959

Coral