PRODUCT APPROVAL DRAWINGS
FL550 FRAMING SYSTEM WITH MULTIPLE INFILLS
FOR USE IN HURRICANE ZONES
REQUIRING LARGE MISSILE IMPACT PROTECTION

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GENERAL NOTES:

TEST STANDARDS
ASA — T420-92
ASTM — T420-92
SMACT — T420-92
C1024 — T420-03

DESIGN PRESSURE VALUES
PSI. SHEETS 2–8 OF 16
WATER INTRUSION, 15 PSI
AIR INTRUSION, 0.24 PSI

TYPICAL GLASS SIZES 5/16" UNLESS OTHERWISE NOTED.
1/4" MAX. SHIM SPACE @ PERIMETER UNLESS OTHERWISE NOTED
ALL ALUMINUM EXTRUSIONS SHALL BE MADE FROM 6063-T6 ALLOY

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 SCREWS, THAT
COME IN CONTACT WITH OTHER MATERIALS SHALL MEET THE
REQUIREMENTS OF 2004 FLORIDA BUILDING CODE, SECTION
2053.0.4

SERIES 351 AND 351 Entrance Doors for FL 920 Framing
System are shown on separate submission. The lower
design pressure of window wall or door will govern.

ABBRÉVIATIONS:
D.O. = DOOR OPENING
C.O.C. = CONCEALED OVERHEAD CLOSER
TYP. = TYPICAL
D.O.W. = DOOR OPENING WIDTH
D.O.H. = DOOR OPENING HEIGHT
S.A.C. = SURFACE APPLIED CLOSER

DEFINITIONS: DICTIONARY OF ARCHITECTURE & CONSTRUCTION—SECOND 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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3/3/08

Lewis A. Waldrop, P.E.
TYPICAL ELEVATION LIGHT ALUM. MULLION WITH STEEL REINFORCEMENT-LONG SPAN

HEAD/SILL @ WOOD SUBSTRATE
3/8" x 3-1/2" LONG LAG BOLT'S TYP. WOOD WITH 3" MIN. EMBEDMENT. LOCATE "FIRST ANCHOR" 2" FROM EDGE OF MULLION AND ADDITIONAL FASTENERS 92" MIN. SPACING BETWEEN ANCHORS.

SILL/HEAD @ STEEL SUBSTRATE
3/8" -16 x 1-1/2" HWH TYPE T" TCS TYP. @ STEEL. LOCATE FIRST ANCHOR 2" FROM EDGE OF MULLION AND ADDITIONAL FASTENERS 2" MIN SPACING BETWEEN ANCHORS

HEAD/SILL @ CONCRETE SUBSTRATE
3/8" x 2-1/2" LONG LDT TYP. @ CONCRETE WITH 2" MIN. EMBEDMENT. LOCATE FIRST ANCHOR 2" FROM EDGE OF MULLION AND ADDITIONAL FASTENERS @ 6" MIN. SPACING BETWEEN ANCHORS.

WALL JAMB @ CONCRETE SUBSTRATE
LOCATE (1) EA. 3" ABOVE AND BELOW MIDPOINT:
3/8" x 2-1/2" LONG LDT TYP. @ CONCRETE WITH 2" MIN. EMBEDMENT.

STEEL SUBSTRATE
LOCATE (1) EA. 4-1/2"
ABOVE AND BELOW MIDPOINT:
3/8" -16 x 1-1/2" HWH TYPE T" TCS TYP. @ STEEL 2"
MIN. SPACING BETWEEN ANCHORS

WOOD SUBSTRATE
LOCATE (1) EA. @ MIDPOINT
AND (2) EA. ABOVE AND BELOW MIDPOINT:
3/8" x 2-1/2" LONG LAG BOLT'S TYP. @ WOOD
3" MIN. EMBEDMENT, 2" MIN. SPACING BETWEEN ANCHORS.

DESIGN PRESSURE = #70/-80 PSI
WATER TEST AT 15 PSI
AIR @ 6.24 PSI
NOTES:
1. GLASS SIZE=D.L.O. + 1-1/8"
2. HORIZONTAL MULLION (DETAIL 3/8 OR 3A/8) IS OPTIONAL IN ANY BAY
3. HEAD (DETAIL 1/8 OR 1A/8) IS OPTIONAL IN ANY BAY.
**TYPICAL ELEVATION LIGHT ALUM. MULLION WITHOUT STEEL REINFORCEMENT
-SHORT SPAN-**

**LEGEND**
- Each line represents one fastener

**DESIGN PRESSURE = ±65/-65 PSF**

**NOTES:**
1. CLASS SIZE = D.L.O. ± 1-1/8"
2. HORIZONTAL MULLION (DETAIL 3/8 OR 3A/8) IS OPTIONAL IN ANY BAY
3. HEAD (DETAIL 1/8 OR 1A/8) IS OPTIONAL IN ANY BAY.

**TYPICAL ATTACHMENT TO CONCRETE/STEEL/WOOD SUBSTRATE**

- 2500 P.S.I. CONCRETE
- 1/4" MIN. THICK STEEL
- WOOD STRUCTURE: MIN. #2 SYP. SEE SHEET 16

**LEONARD A. WAIDROP, P.E.**

**LEONARD A. WAIDROP, P.E.**

**DATE:** 11/15/88

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**HEAD/SILL**
- @ WOOD SUBSTRATE
  - 3/8" x 3-1/2" LONG LAG BOLTS TYP. @ WOOD WITH 2" MIN. EMBLEMMENT. LOCATE FIRST ANCHOR 2" FROM EDGE OF MULLION AND ADDITIONAL FASTENERS @ 2" MIN. SPACING BETWEEN ANCHORS.

**HEAD/SILL**
- @ STEEL SUBSTRATE
  - 3/8" -16 x 1-1/2" HWH TYPE "T" TCS TYP. @ STEEL. LOCATE FIRST ANCHOR 2" FROM EDGE OF MULLION.

**SILL/HEAD**
- @ CONCRETE SUBSTRATE
  - 3/8" x 2-1/2" LONG LAG TYP. TYPICAL @ CONCRETE WITH 2" EMBLEMMENT. LOCATE FIRST ANCHOR 2" FROM EDGE OF MULLION.
TYPICAL ELEVATION HEAVY ALUM. MULLION WITHOUT STEEL
- LONG SPAN -

LEGEND
- EACH LINE REPRESENTS ONE FASTENER

DESIGN PRESSURE = +60/-80 PSF

NOTES:
1. GLASS SIZE = D.L.O. + 1-1/8"
2. HORIZONTAL MULLION (DETAIL 3/8 OR 3A/8) IS OPTIONAL IN ANY BAY
3. HEAD (DETAIL 1/8 OR 1A/8) IS OPTIONAL IN ANY BAY.

TYPICAL ATTACHMENT TO CONCRETE/STEEL/WOOD SUBSTRATE

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SILL/HEAD
AT CONCRETE SUBSTRATE

3/8" x 2-1/2" LONG LMT TYPICAL
AT CONCRETE WITH 2" MIN.
EMBEDMENT. LOCATE ANCHOR 2" FROM EDGE OF MULLION.

HEAD/SILL
AT WOOD SUBSTRATE

3/8" X 3-1/2" LONG LAG BOLTS TYP @ WOOD WITH 3" MIN.
EMBEDMENT. LOCATE FIRST ANCHOR 2" FROM EDGE OF MULLION AND ADDITIONAL FASTENERS @ 2" MIN. SPACING BETWEEN ANCHORS.

HEAD/SILL
AT STEEL SUBSTRATE

3/8" -16 x 1-1/2" HWH TYPE "F" ICS TYP. @ STEEL. LOCATE FIRST ANCHOR 2" FROM EDGE OF MULLION.

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SCALE: 1/2" = 1'-0"
TYPICAL ELEVATIONS FOR DOORFRAMES WITH A TRANSOM
- WITH OR WITHOUT A SIDE LIGHT-

SPECIAL NOTATION: TRANSOM GLASS TYPES

\[ \text{\&} \text{\&} \text{\&} \text{\&} \text{\&} \text{\&} \text{\&} \] ARE LIMITED TO \( +/1500 \text{ PSF} \)

\[ \Delta \] = OUTBOARD LITE OF INSULATED UNIT MUST BE TEMPERED AT
SIDE LIGHT ADJACENT TO DOOR(S) TO MEET BUILDING SAFETY CODES.

DESIGN PRESSURE = \(+70/80 \text{ PSF}\)

NOTES:
1. GLASS SIZE = D.L.O. + 1-1/8"
2. SEE SHEETS 14-16 FOR PERIMETER FASTENER LOCATIONS
3. HORIZONTAL MULLION (DETAIL 3/8 OR 3A/8) IS OPTIONAL IN ANY BAY.
4. SERIES 281 AND 281 DOORS ARE SHOWN ON SEPARATE SUBMISSION.
5. HEAD (DETAIL 1/8 OR 1A/8) IS OPTIONAL IN ANY BAY.

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SCALE: 3/8" = 1'-0"

2/11/05

DRAWS FOR
DADE COUNTY
PRODUCT APPROVAL
TYPICAL ELEVATIONS FOR DOORFRAMES WITHOUT A TRANSOM
- WITH OR WITHOUT A SIDE LIGHT -

Δ = OUTBOARD LIFE OF INSULATED UNIT MUST BE TEMPERED AT
SIDE LIGHT ADJACENT TO DOOR(S) TO MEET BUILDING SAFETY CODES

DESIGN PRESSURE = +70/-80 PSF

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

NOTES:
1. GLASS SIZE=D.L.O. + 1-1/8"
2. SEE SHEETS 14-16 FOR PERIMETER FASTENER LOCATIONS
3. HORIZONTAL MULLION (DETAIL 3/8 OR 3A/8) IS OPTIONAL IN ANY BAY.
4. SERIES 381 AND 281 DOORS ARE SHOWN ON SEPARATE SUBMISSION.
5. HEAD (DETAIL 1/8 OR 1A/8) IS OPTIONAL IN ANY BAY.
4. LIGHT INTERM. VERTICAL

5. HEAVY VERTICAL MULLION

6. WALL JAMB

7. LIGHT INTERM. VERTICAL WITH STEEL

NOTE: HORIZONTAL SECTION CUTS ARE AS VIEWED FROM THE EXTERIOR UNLESS OTHERWISE NOTED.

DRILL #13/64" (#7 DRILL) HOLE FOR 1/4" STS FASTENER 1" FROM EACH END OF MULLION AND ATTACH STEEL.
1/4" MAXIMUM SPACE TIP

FRAME WIDTH
B.D.

D.W.

FRAME WIDTH
D.L.E.

FRAME OPENING

5 - TRANSM. DOORJAMB @ WALL

9 - TRANSM. DOORJAMB @ SIDE LIGHT

10 - DOORJAMB FOR LOCK @ WALL

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11 - DOORJAMB @ WALL

12 - DOORJAMB @ SIDE LIGHT

SCALE: 6" = 1'-0"

DRAWS FOR DADE COUNTY PRODUCT APPROVAL

FL550 03

10 OF 16
17 - DOORFRAME HEADER FOR C.O.C.

18 - DOORFRAME HEADER FOR S.A.C.

19 - THRESHOLD FOR ADA BOTTOM RAIL.
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<tr>
<th>ITEM NO</th>
<th>DESCRIPTION</th>
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<th>DIMENSIONS</th>
<th>MATERIAL</th>
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<td>TONGUE &amp; GROOVE INTERMEDIATE HORIZONTAL</td>
<td>1.02</td>
<td>3.500 × 3.500</td>
<td>4.000</td>
<td>063-18 ALUMINUM</td>
<td>INDUSTRIES, INC.</td>
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</tr>
</tbody>
</table>
PERIMETER FASTENER LOCATIONS

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

<table>
<thead>
<tr>
<th>DOOR OPENING HEIGHT</th>
<th>&quot;A&quot;</th>
<th>&quot;B&quot;</th>
<th>&quot;C&quot;</th>
<th>&quot;D&quot;</th>
<th>&quot;E&quot;</th>
<th>&quot;F&quot;</th>
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<td>95&quot;</td>
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<td>88&quot;</td>
<td>94&quot;</td>
<td>100&quot;</td>
<td>106&quot;</td>
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NOTES:

Δ - STRUCTURAL FASTENERS
NOT REQUIRED AT THRESHOLD.

LEGEND

- EACH LINE REPRESENTS ONE FASTENER

MAXIMUM DESIGN PRESSURE
+70/-80 PSF

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

DRAWS FOR
DADE COUNTY
PRODUCT APPROVAL
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>'D'</th>
<th>'E'</th>
<th>'F'</th>
<th>'G'</th>
<th>'H'</th>
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<td>92&quot;</td>
<td>94&quot;</td>
<td>100&quot;</td>
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</tbody>
</table>

ANCHOR LOCATIONS FOR "LETTER" DIM.

TYP. INSTALLATION INTO:
WOOD SUBSTRATE

3/6" LAG BOLT WITH FILLER PLATE
FULL LENGTH, 3" MIN. EMBEDMENT

3/6" X 3-1/2" LAG BOLT, 3" MIN. EMBEDMENT

#4 X 2-1/2" WOOD SCREW

EDGE DISTANCE 1 1/2", MIN. SPACING 5 2".
WOOD STRUCTURE IS MIN. #2 SYP

NOTES:

Δ = STRUCTURAL FASTENERS NOT REQUIRED AT THRESHOLD.

LEGEND

1 EACH LINE REPRESENTS ONE FASTENER

MAXIMUM DESIGN PRESSURE
+70/-50 PSF

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

DRAWINGS FOR
DADE COUNTY
PRODUCT APPROVAL

FL550 WINDOW WALL SYSTEM
DOOR FRAMES

PERIMETER FASTENER LOCATIONS

FL550 03
16 OF 16