

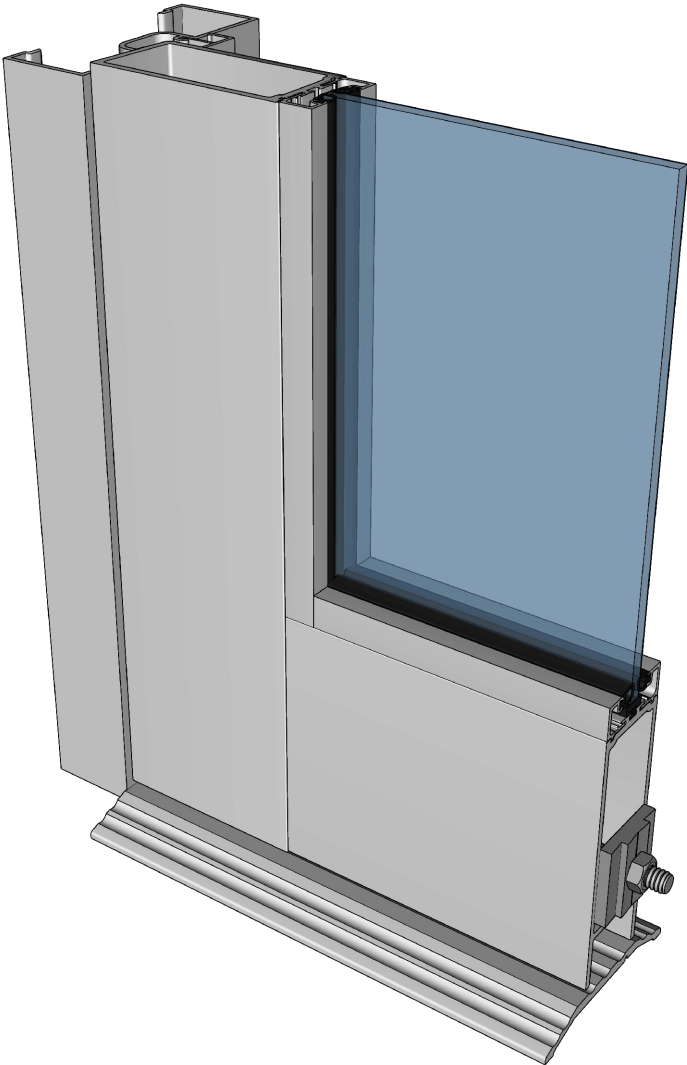
TRULITE GLASS & ALUMINUM SOLUTIONS

MS300 MEDIUM STILE / WS500 WIDE STILE

SERIES OUTSWING DOORS (HVHZ / NON-IMPACT)

GENERAL NOTES:

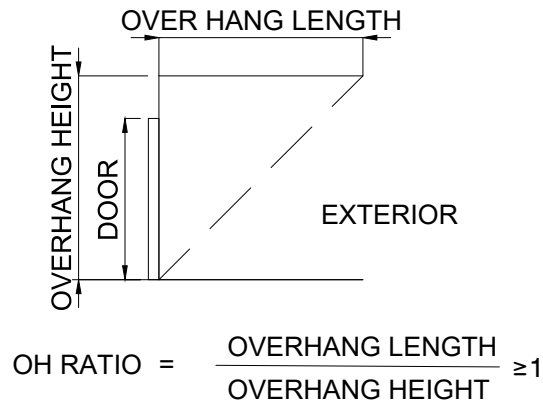
1. THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
2. DOORS ARE NON-IMPACT. INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA AND WINDBORNE DEBRIS REGION REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES.
3. CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.
4. WOOD BUCKS BY OTHERS. MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE MAIN STRUCTURE.
5. ANCHORS SHALL BE AS LISTED. SPACED AS SHOWN ON THE DETAILS. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS REQUIRED. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR INSTALLATION THROUGH METAL FRAME, PROVIDE 3 THREADS MINIMUM PENETRATION BEYOND METAL FRAME SUBSTRATE. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS REFERENCED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT IN FACE SHELL OF BLOCK.
6. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME IN CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023 FLORIDA BUILDING CODE & ADAPTED STANDARDS.
7. ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.
8. A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.



9. ULTIMATE LOAD OBTAINED FROM APPLICABLE ASCE 7 STANDARD MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.
10. GASKETS USED IN THIS FENESTRATION PRODUCT ARE IN COMPLIANCE WITH ASTM STANDARD C864.

NOTE:

DOOR ASSEMBLIES SHOULD BE INSTALLED WHERE IT WILL BE PROTECTED BY AN OVERHANG FROM WATER INFILTRATION. OVERHANG MUST MEET THE OVERHANG RATIO OF 1 OR MORE (REFER TO ILLUSTRATION BELOW) OR IN NONHABITABLE AREAS WHERE WATER INFILTRATION IS ACCEPTABLE.



ABBREVIATIONS:

DLO - DAYLIGHT OPENING  
D.O. - DOOR OPENING  
OPPO. - OPPOSITE  
N.T.S. - NOT TO SCALE

LIMITATION OF USE

- A. THIS PRODUCT APPROVAL DOCUMENT IS GENERIC AND DOES NOT PROVIDE INFORMATION OF A SITE SPECIFIC PROJECT OR WHERE THE SITE CONDITIONS DEViate FROM THIS PRODUCT APPROVAL DOCUMENT.
- B. FOR CONDITIONS THAT DEViate FROM THE PRODUCT APPROVAL DOCUMENTS, THIS SHALL BE REVIEWED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD FOR THE PROJECT.



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Alpharetta GA, 30009  
p. 800-432-8132

PRODUCT:

**MS300 / WS500**  
**Series**  
**Alum Outswing**  
**Doors**  
*HVHZ - Non-Impact*

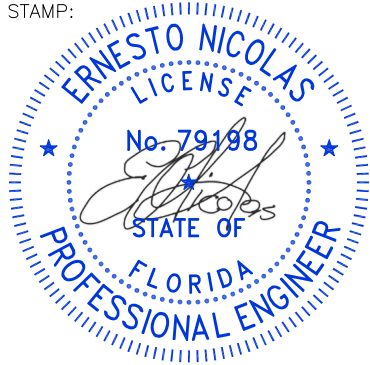
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ENGINEER:



*En3 Engineering & Consultancy*  
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Email: [en3.engconsul@gmail.com](mailto:en3.engconsul@gmail.com)

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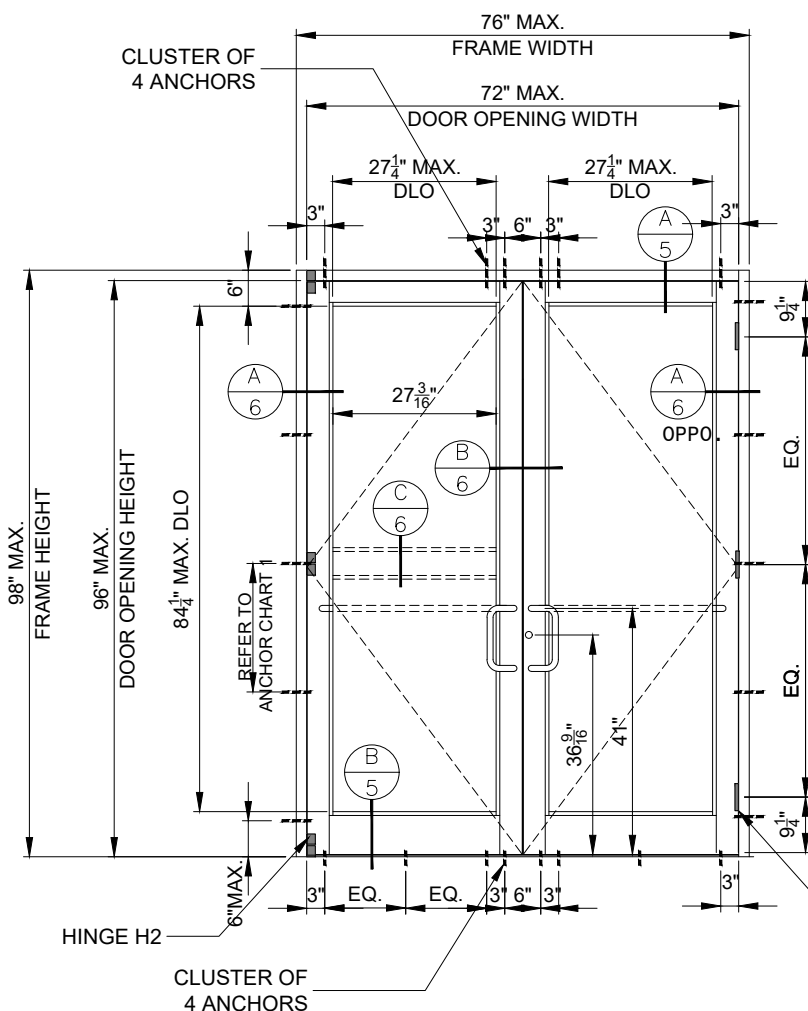
**FL46722**

DATE: **APRIL 28, 2024**

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| Drwn: Bobi         | CHK: ESN      |
| Drwg. No: 24FL-104 | SCALE: N.T.S. |

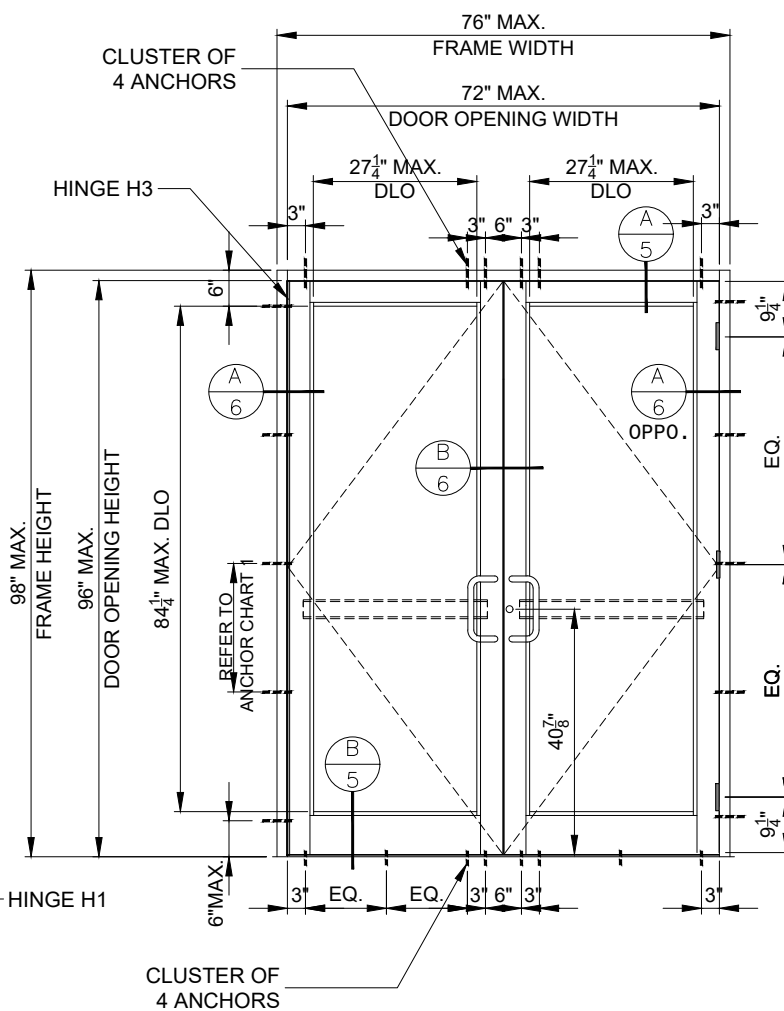
SHEET NO.:

**1 OF 13**



ELEVATION A (STANDARD PUSH/PULL)

- SINGLE POINT LOCK WITH FLUSH BOLTS (72" x 84" MAX. OPENING SIZE)
- STANDARD 5 POINT LOCK



ELEVATION B (CVR EXIT DEVICE)

TYP. EXT. (OUTSWING) DOUBLE DOOR ELEVATIONS

| ANCHOR CHART 1      |               |
|---------------------|---------------|
| MAX. ANCHOR SPACING | MAX. DP (psf) |
| 36" O.C.            | + - 40        |
| 24" O.C.            | + - 60        |

HINGE OPTIONS:

H1:  
4½"x4" BUTT HINGES (26298) BY HAGER CO.  
OR IMPERIAL USA (GLOBAL DOOR) - 2pcs/leaf  
for up to 84" door opening height and 3pcs/leaf for  
door opening height greater than 84"

H2:  
OFFSET PIVOT HINGE - Top & Bot. of Door  
(21274/21273), Top of Frame (21275), Bot. of  
Frame (24642), Interm. (24566)

H3:  
CONTINUOUS GEARED HINGE (60095) BY  
HAGER CO.

| LOCK OPTIONS |                                                                                                          |
|--------------|----------------------------------------------------------------------------------------------------------|
| OPTION       | DESCRIPTIONS                                                                                             |
| 1            | MANUAL FLUSH BOLTS (24669)                                                                               |
|              | MS LOCK (26093)                                                                                          |
| 2            | AHT 8000 CONCEALED VERTICAL ROD EXIT                                                                     |
| 3            | DOOR-O-MATIC 1690 CONCEALED VERTICAL ROD                                                                 |
| 4            | VON DUPRIN 9947 CONCEALED VERTICAL ROD                                                                   |
| 5            | ADAMS RITE MS1880, MS1881 CONCEALED TWO POINT LOCK                                                       |
|              | ILCO HB185 EIGHT PLY HOOK LOCK WITH ADAMS RITE 4016 TOP ROD & 4015 BOTTOM ROD CONCEALED THREE POINT LOCK |
| 6            | REGENT ML-207-TT-2PT CONCEALED TWO POINT LOCK                                                            |
|              | REGENT ML-207-012, CONCEALED THREE POINT LOCK SYSTEM WITH EIGHT PLY HOOK LOCK                            |
| 7            | REGENT 5770 CONCEALED VERTICAL ROD EXIT DEVICE TWO POINT LOCK                                            |

| DOOR CAPACITY |                     |               |
|---------------|---------------------|---------------|
| ELEVATION     | LOCK OPTION         | MAX. DP (psf) |
| A, C          | 1                   | + - 40        |
| A, C          | 5, 6                | + - 60        |
| B, D          | 2, 3, 4, 7          | + - 60        |
| E             | 1, 2, 3, 4, 5, 6, 7 | + - 40        |
| F             | 1, 2, 3, 4, 5, 6, 7 | + - 40        |



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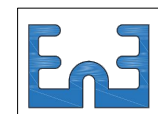
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Alpharetta GA, 30009  
p. 800-432-8132

PRODUCT:

**MS300 / WS500**  
**Series**  
**Alum Outswing**  
**Doors**  
*HVHZ - Non-Impact*

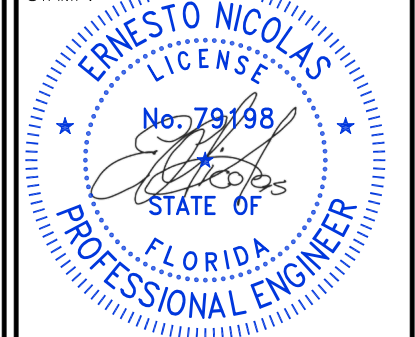
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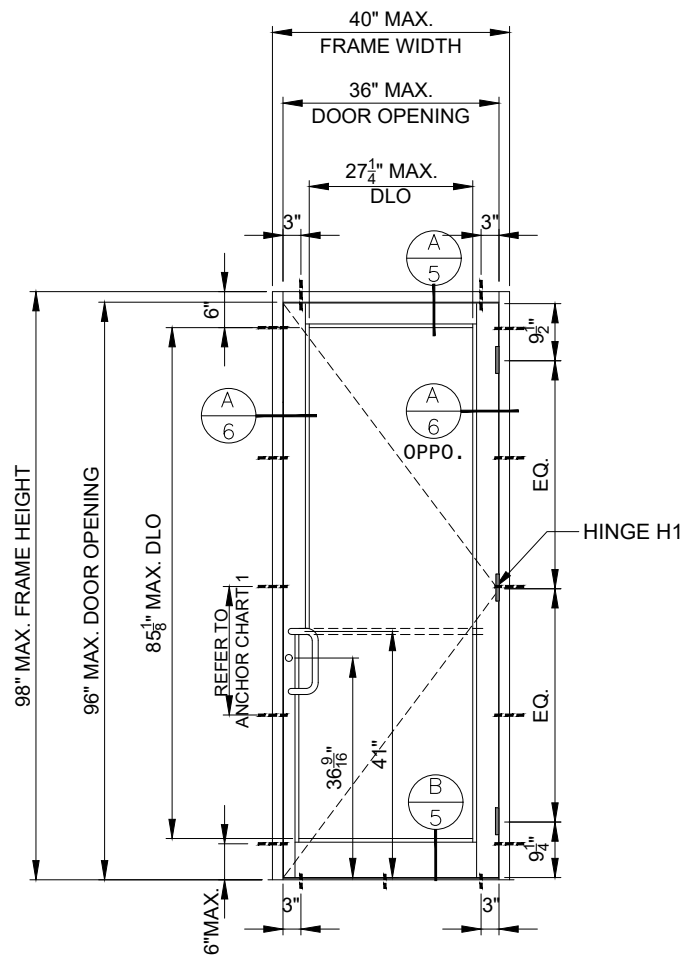
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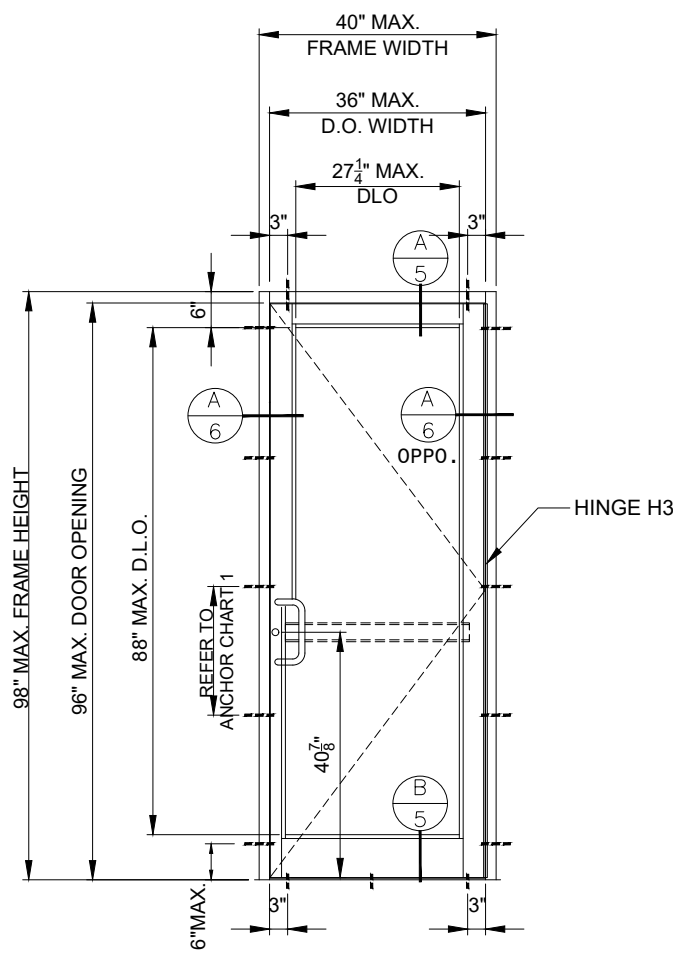
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**2 OF 13**

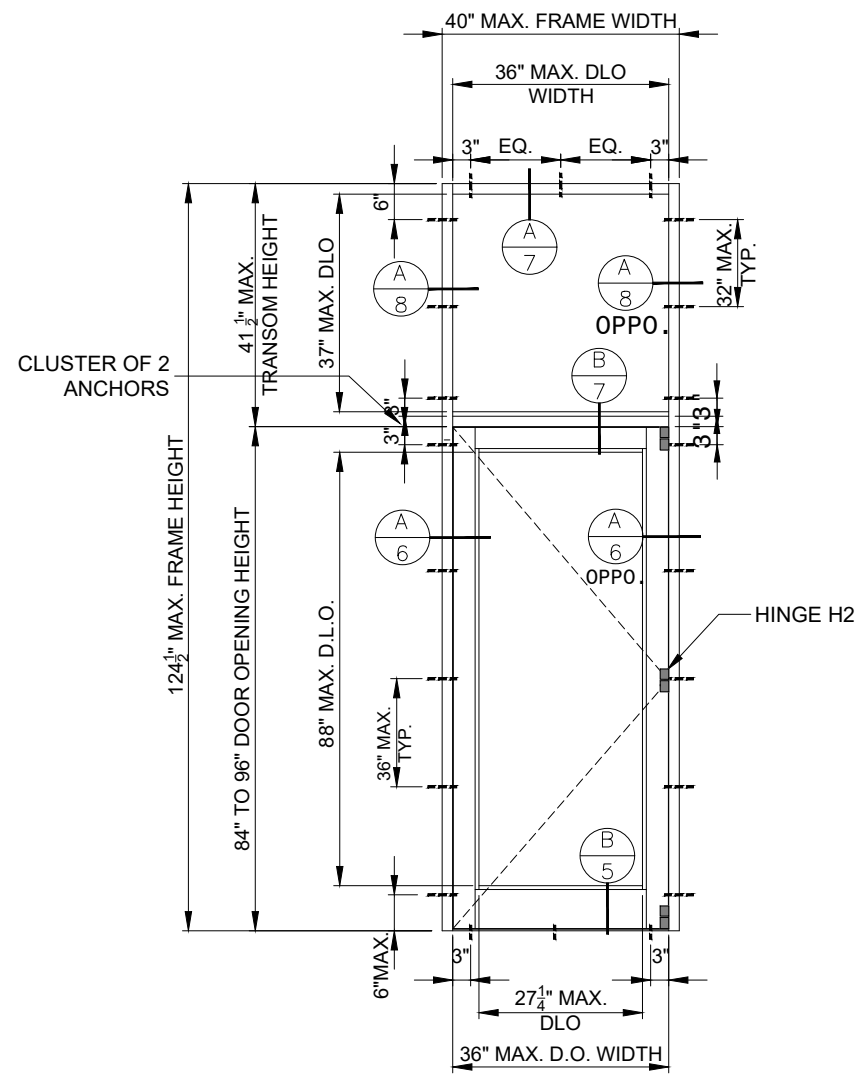


ELEVATION C (STANDARD PUSH/PULL)

- SINGLE POINT LOCK (36" x 84" MAX. OPENING SIZE)
- STANDARD 3 POINT LOCK



ELEVATION D (CVR EXIT DEVICE)



ELEVATION E

NOTE: 72" x 84" MAX. OPENING SIZE FOR  
SINGLE POINT LOCK

TYP. EXT. OUTSWING  
SINGLE DOOR WITH TRANSOM

TYP. EXT. (OUTSWING) SINGLE DOOR ELEVATIONS

PRODUCT:

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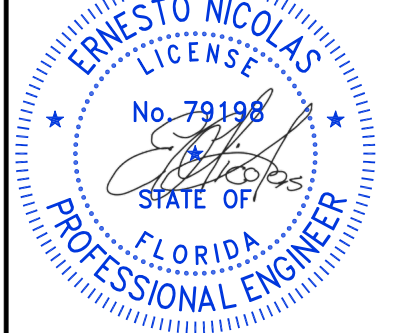
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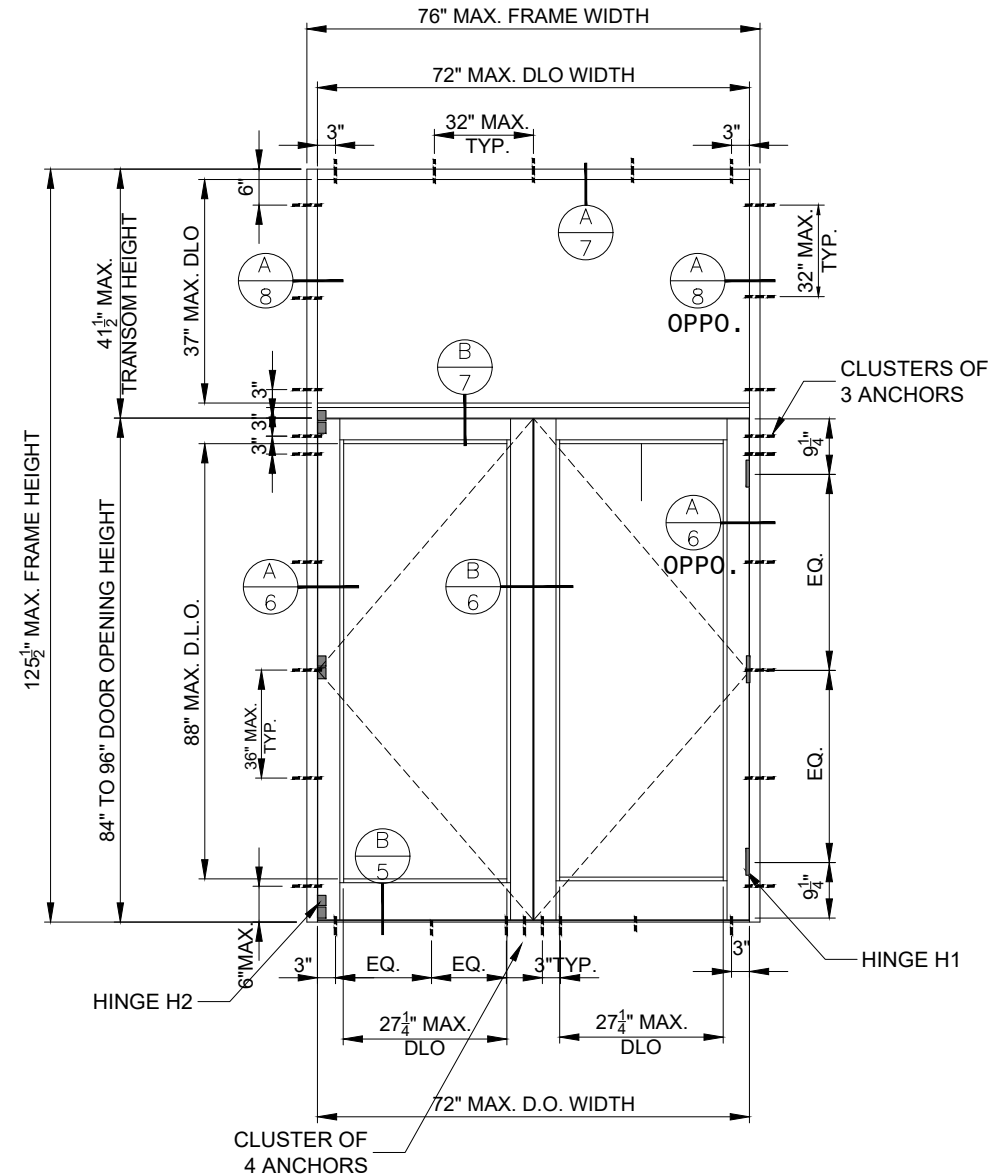
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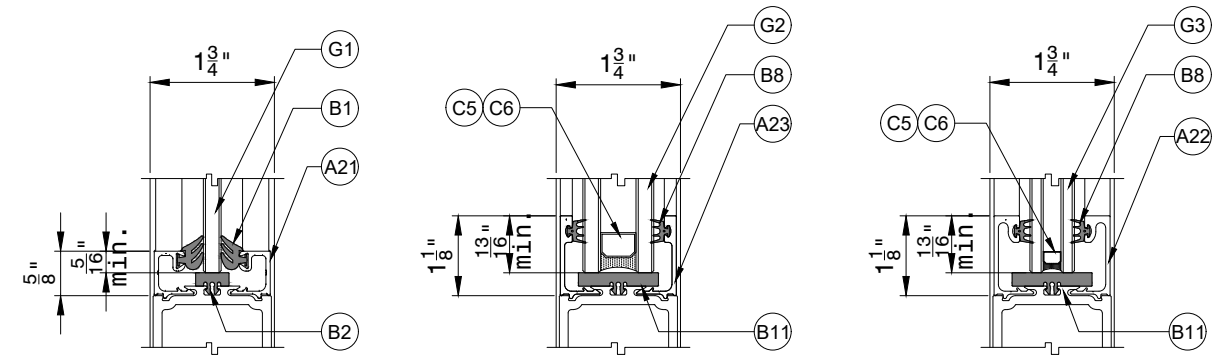
**3 OF 13**



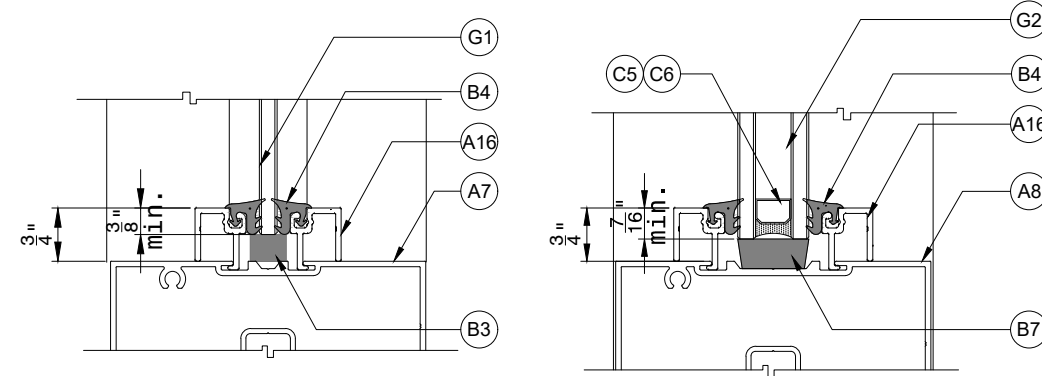
### ELEVATION F

NOTE: 72" x 84" MAX. OPENING SIZE FOR SINGLE POINT  
LOCK WITH FLUSH BOLTS

## TYP. EXT. (OUTSWING) DOUBLE DOOR WITH TRANSOM ELEVATION



### DOOR PANEL GLAZING OPTIONS



### TRANSOM GLAZING OPTIONS

NOTE: PROVIDE 2 SETTING BLOCKS  
PER GLASS PANEL

## GLAZING DETAILS

G1 - 1/4" TEMP. GLASS

G2 - 1" INSULATED GLASS COMPOSED OF:

- 1/4" TEMP. GLASS
- 1/2" MAX. AIR SPACE
- 1/4" TEMP. GLASS

G3 - 5/8" INSULATED GLASS COMPOSED OF:

- 3/16" TEMP. GLASS
- 1/4" MAX. AIR SPACE
- 3/16" TEMP. GLASS

## GLASS TYPES

#### GLAZING NOTES:

1. SETTING BLOCKS TO MEET FBC CHAPTER 24 REQUIREMENTS.
2. GLASS TYPE AND THICKNESS SHALL COMPLY WITH ASTM E1300 REQUIREMENTS PER THE LATEST FBC. THICKNESS, TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.



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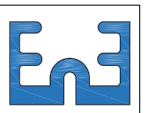
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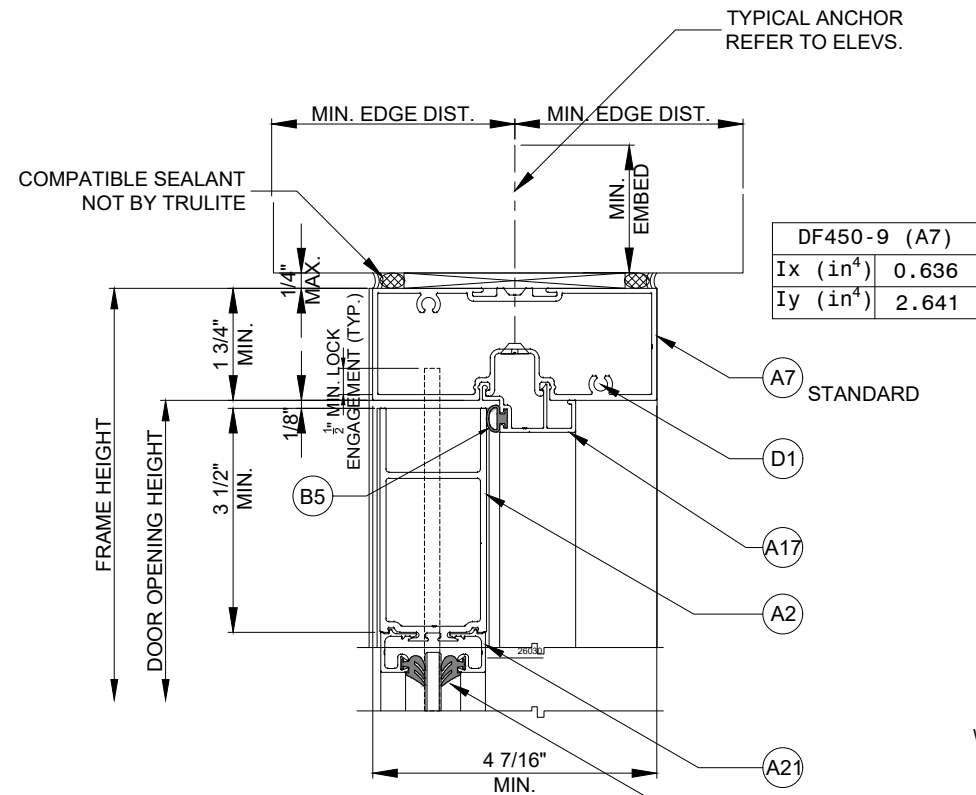
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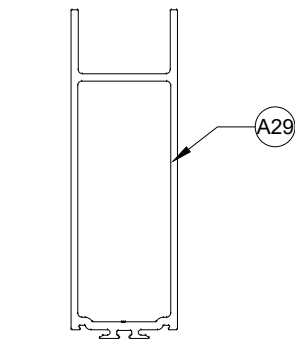
SHEET NO.:

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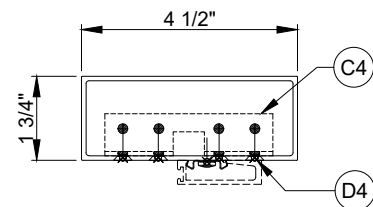




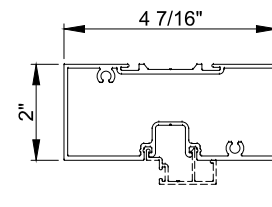
**A HEAD DETAIL**



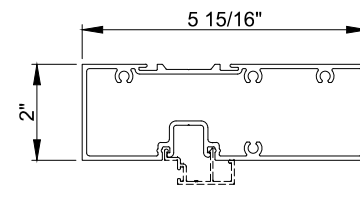
WS500 TOP RAIL (26364)



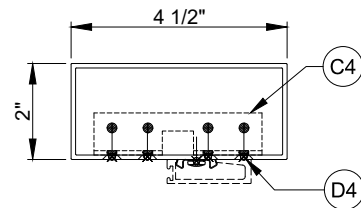
|                          |        |
|--------------------------|--------|
| 10220 (A25)              |        |
| $I_x$ (in <sup>4</sup> ) | 0.6421 |
| $I_y$ (in <sup>4</sup> ) | 2.867  |



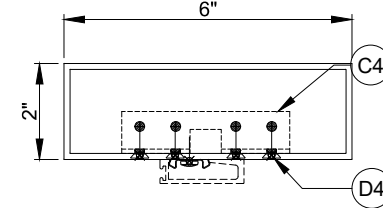
|                          |       |
|--------------------------|-------|
| DF451-9 (A8)             |       |
| $I_x$ (in <sup>4</sup> ) | 0.869 |
| $I_y$ (in <sup>4</sup> ) | 2.861 |



|                          |       |
|--------------------------|-------|
| DF601-9 (A26)            |       |
| $I_x$ (in <sup>4</sup> ) | 1.272 |
| $I_y$ (in <sup>4</sup> ) | 7.052 |

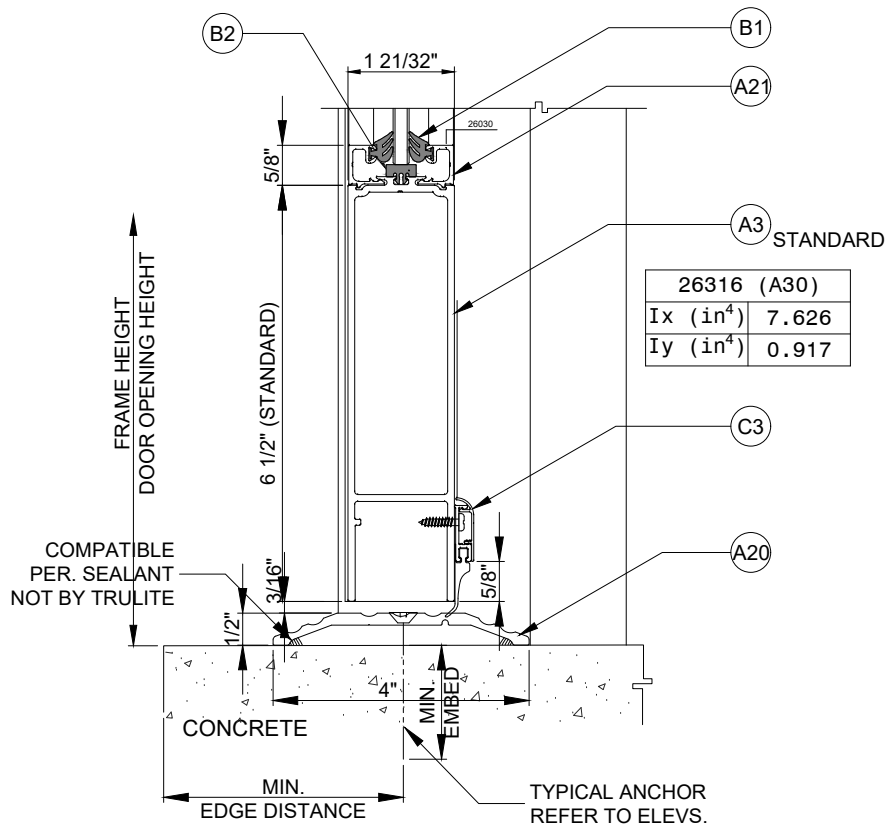


|                          |       |
|--------------------------|-------|
| 10184 (A27)              |       |
| $I_x$ (in <sup>4</sup> ) | 0.862 |
| $I_y$ (in <sup>4</sup> ) | 3.081 |

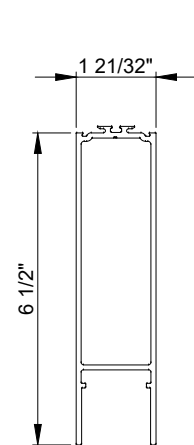


|                          |       |
|--------------------------|-------|
| 10190 (A28)              |       |
| $I_x$ (in <sup>4</sup> ) | 1.432 |
| $I_y$ (in <sup>4</sup> ) | 8.275 |

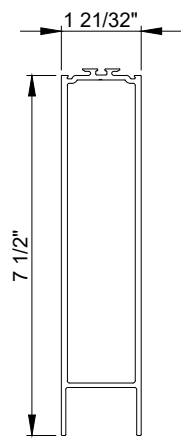
**DOOR FRAME HEAD OPTIONS**



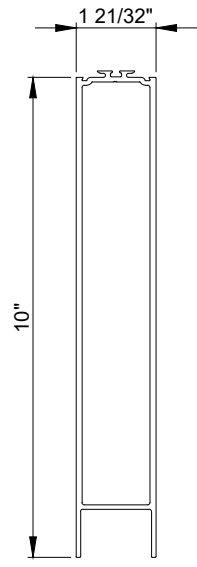
**B SILL DETAIL**



|                          |       |
|--------------------------|-------|
| 26316 (A30)              |       |
| $I_x$ (in <sup>4</sup> ) | 7.626 |
| $I_y$ (in <sup>4</sup> ) | 0.917 |

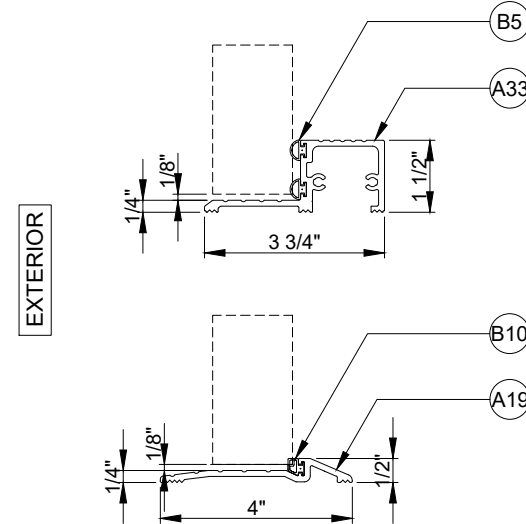


|                          |        |
|--------------------------|--------|
| 26599 (A31)              |        |
| $I_x$ (in <sup>4</sup> ) | 11.639 |
| $I_y$ (in <sup>4</sup> ) | 1.131  |



|                          |        |
|--------------------------|--------|
| 26600 (A32)              |        |
| $I_x$ (in <sup>4</sup> ) | 30.743 |
| $I_y$ (in <sup>4</sup> ) | 1.691  |

**BOTTOM RAIL OPTIONS**



**THRESHOLD OPTIONS**



GLASS & ALUMINUM SOLUTIONS™

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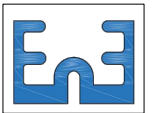
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PRODUCT:

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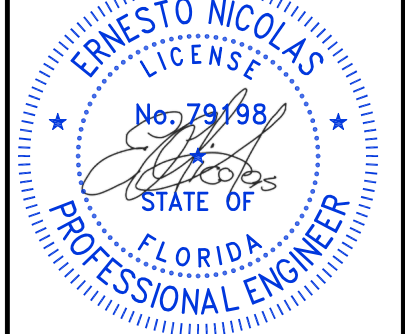
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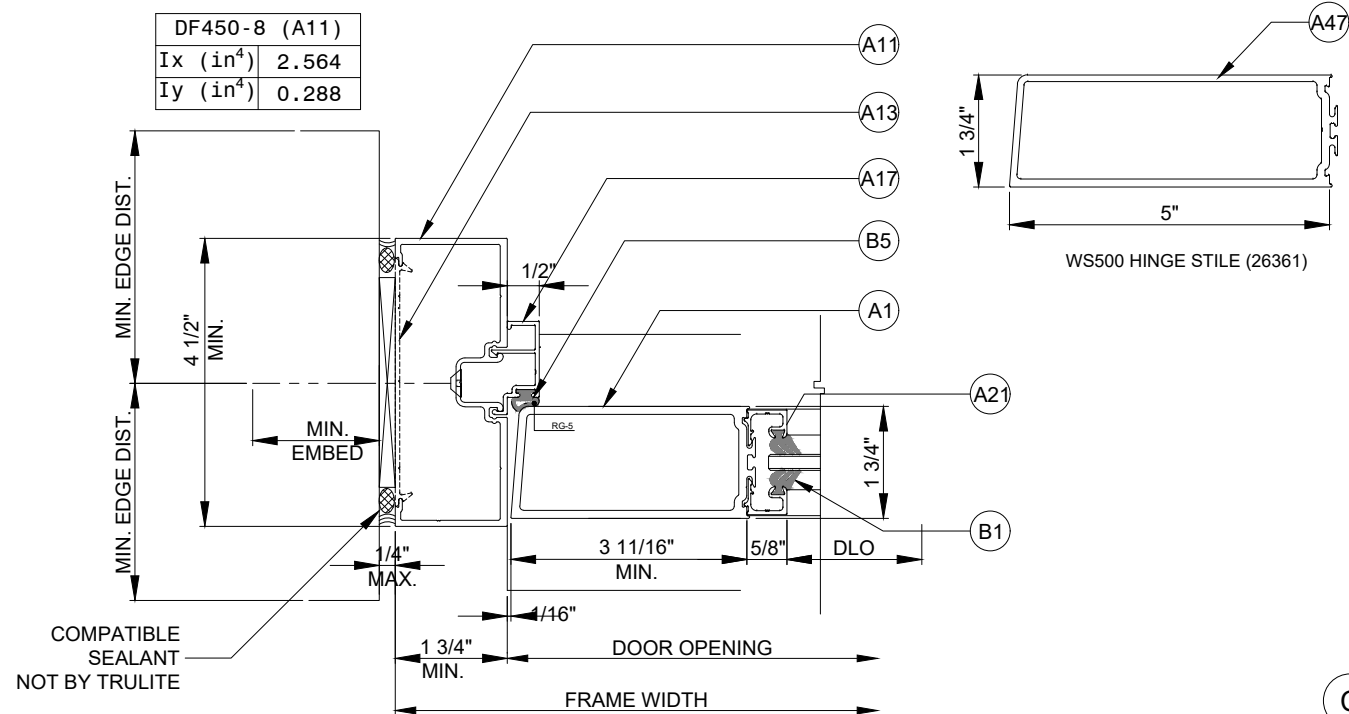
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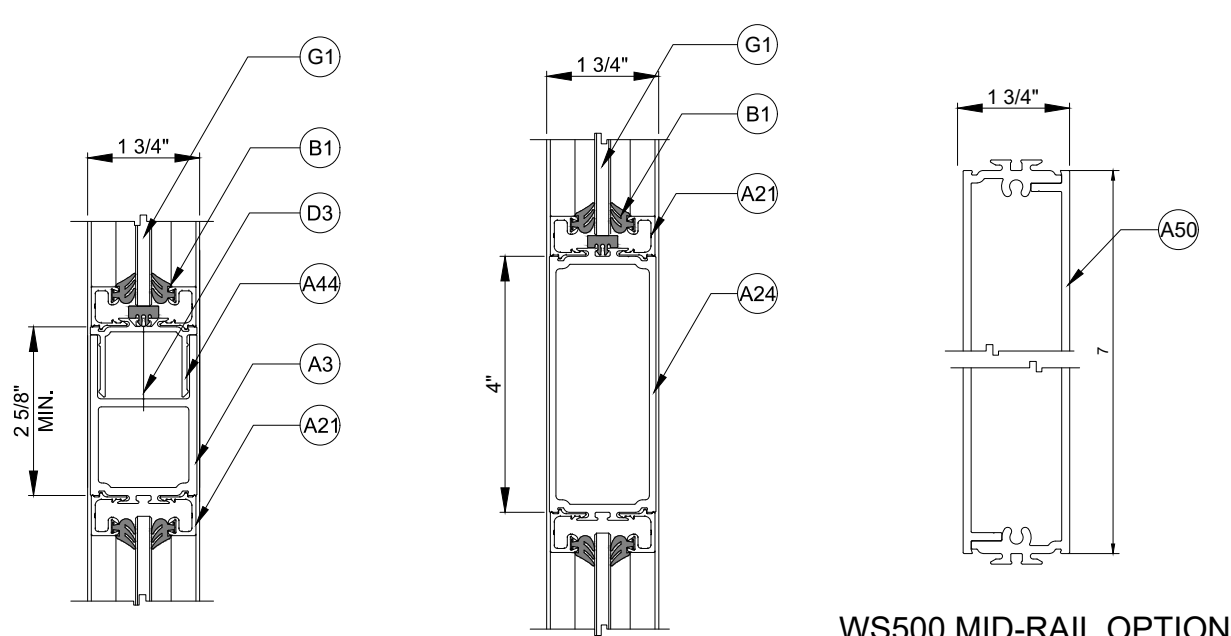
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**5 OF 13**



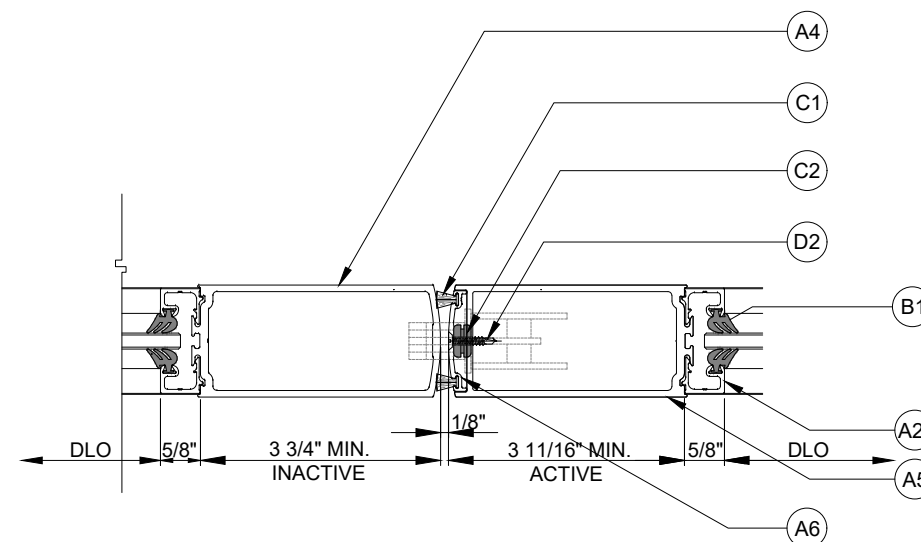
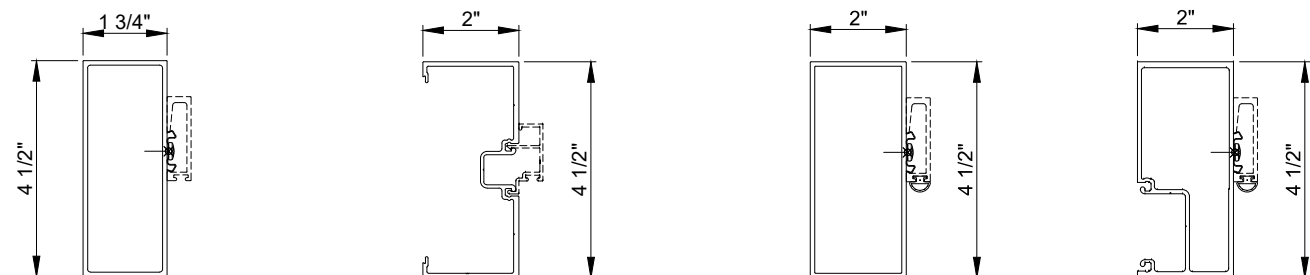
**A DOOR JAMB/HINGE STILE DETAIL**

**C MID-RAIL DETAIL**



**MID-RAIL OPTION**

**WS500 MID-RAIL OPTION**



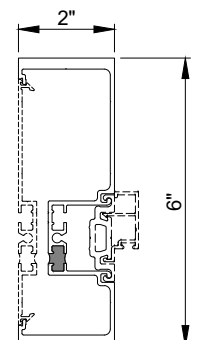
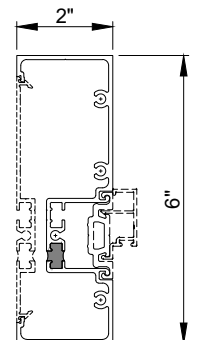
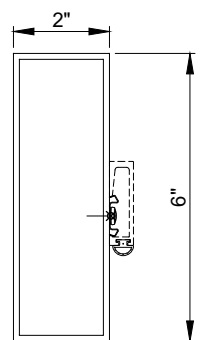
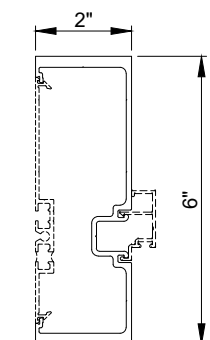
**B MEETING STILE DETAIL**

|                          |       |
|--------------------------|-------|
| 10220 (A25)              |       |
| $I_x$ (in <sup>4</sup> ) | 2.867 |
| $I_y$ (in <sup>4</sup> ) | 0.642 |

|                          |       |
|--------------------------|-------|
| DF451-8 (A12)            |       |
| $I_x$ (in <sup>4</sup> ) | 2.792 |
| $I_y$ (in <sup>4</sup> ) | 0.404 |

|                          |       |
|--------------------------|-------|
| 10184 (A27)              |       |
| $I_x$ (in <sup>4</sup> ) | 3.081 |
| $I_y$ (in <sup>4</sup> ) | 0.862 |

|                          |       |
|--------------------------|-------|
| DF451-10 (A46)           |       |
| $I_x$ (in <sup>4</sup> ) | 3.696 |
| $I_y$ (in <sup>4</sup> ) | 1.568 |



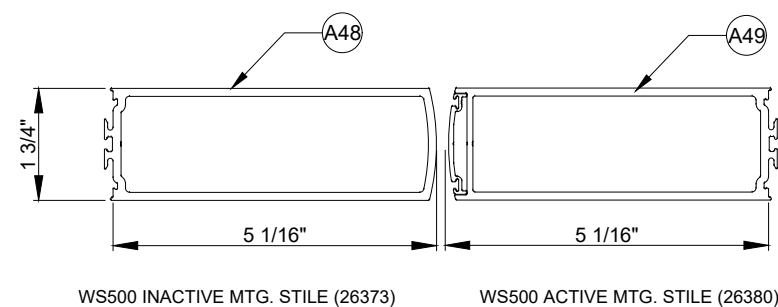
|                          |       |
|--------------------------|-------|
| DF601-8 (A34)            |       |
| $I_x$ (in <sup>4</sup> ) | 9.803 |
| $I_y$ (in <sup>4</sup> ) | 0.719 |

|                          |       |
|--------------------------|-------|
| 10190 (A28)              |       |
| $I_x$ (in <sup>4</sup> ) | 8.275 |
| $I_y$ (in <sup>4</sup> ) | 1.432 |

|                          |                             |
|--------------------------|-----------------------------|
| CT601-31 (A36)           |                             |
| $I_x$ (in <sup>4</sup> ) | $9.559 \times 0.85 = 8.125$ |
| $I_y$ (in <sup>4</sup> ) | $0.665 \times 0.85 = 0.565$ |

|                          |                             |
|--------------------------|-----------------------------|
| CT601-7 (A37)            |                             |
| $I_x$ (in <sup>4</sup> ) | $9.559 \times 0.85 = 8.125$ |
| $I_y$ (in <sup>4</sup> ) | $0.665 \times 0.85 = 0.565$ |

**DOOR JAMB OPTIONS**



**WS500 INACTIVE MTG. STILE (26373)**

**WS500 ACTIVE MTG. STILE (26380)**



GLASS & ALUMINUM SOLUTIONS™

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1750 Founders PKWY, Ste. 154,  
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p. 800-432-8132

PRODUCT:

**MS300 / WS500  
Series  
Alum Outswing  
Doors**  
HVHZ - Non-Impact

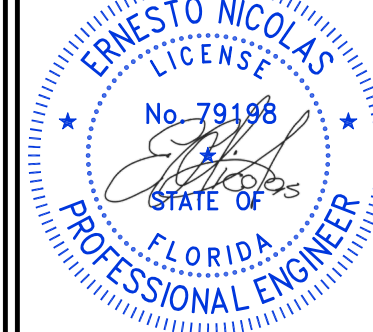
REV# DATE/REMARKS

ENGINEER:



*En3 Engineering & Consultancy*  
950 SW 135th Way Sunrise,  
FL 33325 P. 702 6260939  
Email: [en3.engconsul@gmail.com](mailto:en3.engconsul@gmail.com)

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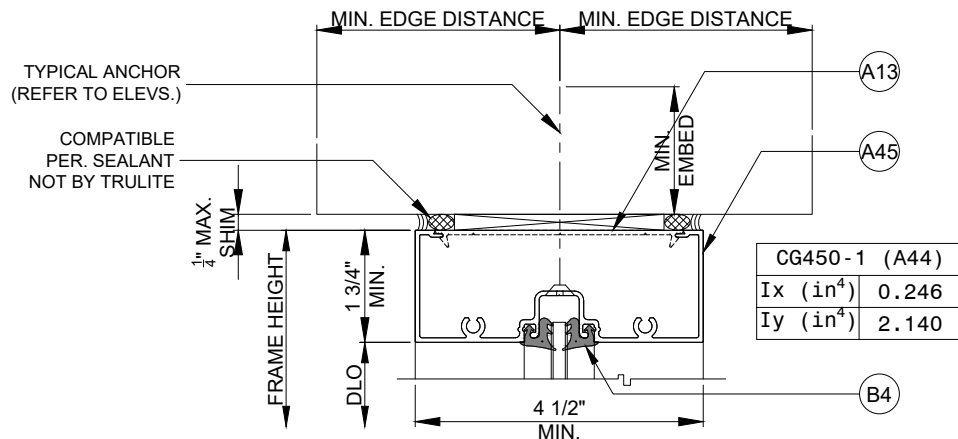
**FL46722**

DATE: APRIL 28, 2024

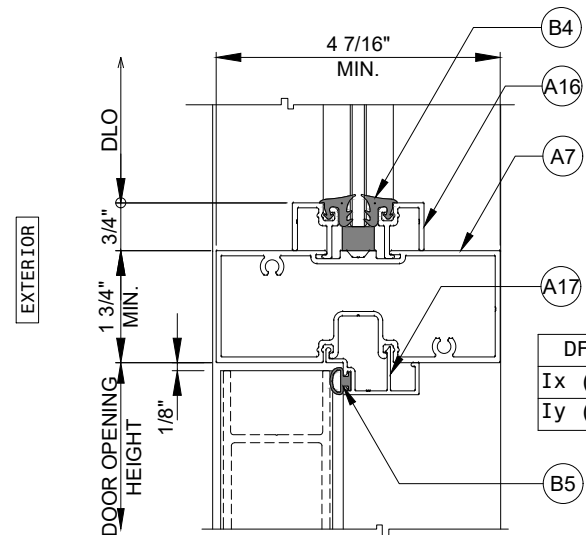
Drwn: Bobi CHK: ESN  
Drwg. No: 24FL-104 SCALE: N.T.S.

SHEET NO.:

**6 OF 13**



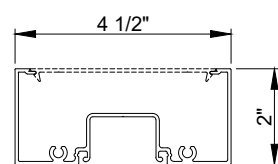
**A TRANSOM FRAME HEAD DETAIL**



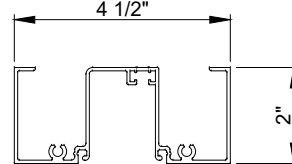
**B DOOR TRANSOM DETAIL**

**GLAZING NOTES:**

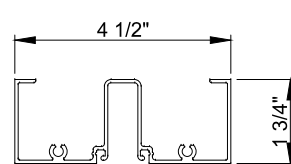
1. PROVIDE 2 SETTING BLOCKS PER GLASS PANEL AS PER FBC CHAPTER 24. GLASS SETTING BLOCKS SHALL BE LOCATED AT L/8.
2. GLASS TYPE AND THICKNESS SHALL COMPLY WITH ASTM E1300 REQUIREMENTS PER THE LATEST FBC. THICKNESS, TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.



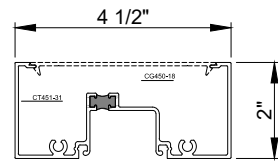
|                       |       |
|-----------------------|-------|
| CG451-1 (A10)         |       |
| Ix (in <sup>4</sup> ) | 0.345 |
| Iy (in <sup>4</sup> ) | 2.392 |



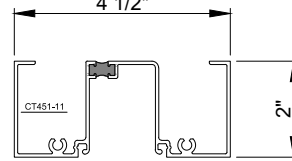
|                       |       |
|-----------------------|-------|
| CG451-11 (A38)        |       |
| Ix (in <sup>4</sup> ) | 0.598 |
| Iy (in <sup>4</sup> ) | 2.462 |



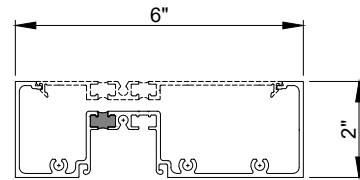
|                       |       |
|-----------------------|-------|
| CG450-11 (A9)         |       |
| Ix (in <sup>4</sup> ) | 0.369 |
| Iy (in <sup>4</sup> ) | 2.151 |



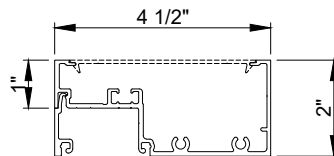
|                       |                    |
|-----------------------|--------------------|
| CT451-31 (A39)        |                    |
| Ix (in <sup>4</sup> ) | 0.345x0.85 = 0.293 |
| Iy (in <sup>4</sup> ) | 2.392x0.85 = 2.033 |



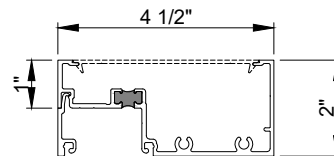
|                       |                    |
|-----------------------|--------------------|
| CT451-11 (A40)        |                    |
| Ix (in <sup>4</sup> ) | 0.598x0.85 = 0.508 |
| Iy (in <sup>4</sup> ) | 2.462x0.85 = 2.093 |



|                       |                    |
|-----------------------|--------------------|
| CT601-31 (A36)        |                    |
| Ix (in <sup>4</sup> ) | 0.598x0.85 = 0.508 |
| Iy (in <sup>4</sup> ) | 2.462x0.85 = 2.093 |



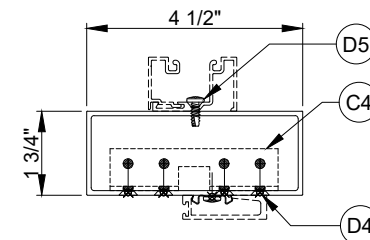
|                       |       |
|-----------------------|-------|
| FG451-4 (A42)         |       |
| Ix (in <sup>4</sup> ) | 0.401 |
| Iy (in <sup>4</sup> ) | 2.347 |



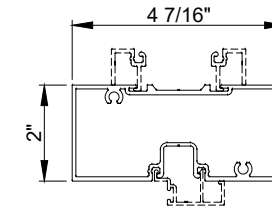
|                       |                    |
|-----------------------|--------------------|
| FT451-4 (A43)         |                    |
| Ix (in <sup>4</sup> ) | 0.401x0.85 = 0.341 |
| Iy (in <sup>4</sup> ) | 2.347x0.85 = 1.995 |

NOTE: FOR CT451 & FT451 FRAME HEAD, REDUCE THE ANCHOR SPACING TO 20" O.C. MAX.

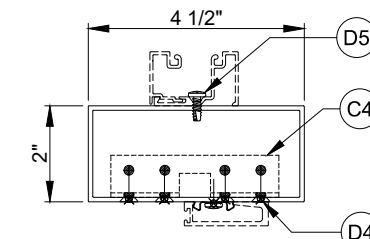
**TRANSOM FRAME HEAD OPTIONS**



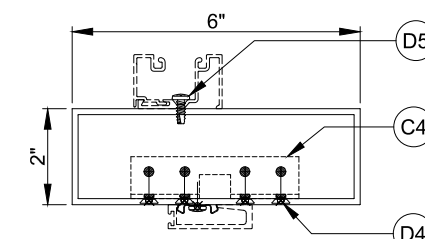
|                       |        |
|-----------------------|--------|
| 10220 (A25)           |        |
| Ix (in <sup>4</sup> ) | 0.6421 |
| Iy (in <sup>4</sup> ) | 2.867  |



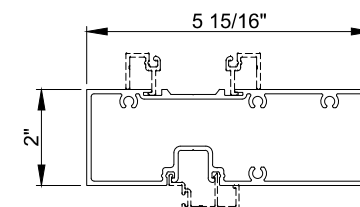
|                       |       |
|-----------------------|-------|
| DF451-9 (A8)          |       |
| Ix (in <sup>4</sup> ) | 0.869 |
| Iy (in <sup>4</sup> ) | 2.861 |



|                       |       |
|-----------------------|-------|
| 10184 (A27)           |       |
| Ix (in <sup>4</sup> ) | 0.862 |
| Iy (in <sup>4</sup> ) | 3.081 |



|                       |       |
|-----------------------|-------|
| 10190 (A28)           |       |
| Ix (in <sup>4</sup> ) | 1.432 |
| Iy (in <sup>4</sup> ) | 8.275 |



|                       |       |
|-----------------------|-------|
| DF601-9 (A26)         |       |
| Ix (in <sup>4</sup> ) | 1.272 |
| Iy (in <sup>4</sup> ) | 7.052 |

**DOOR TRANSOM FRAME OPTIONS**



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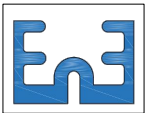
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PRODUCT:

**MS300 / WS500  
Series  
Alum Outswing  
Doors  
HVHZ - Non-Impact**

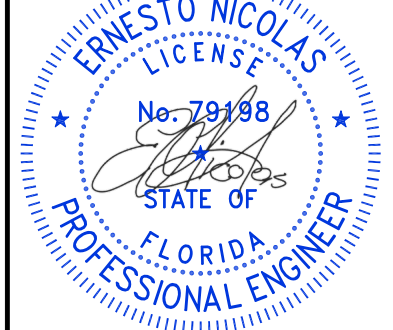
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ENGINEER:



**En3 Engineering & Consultancy**  
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FL 33325 P. 702 6260939  
Email: [en3.engconsul@gmail.com](mailto:en3.engconsul@gmail.com)

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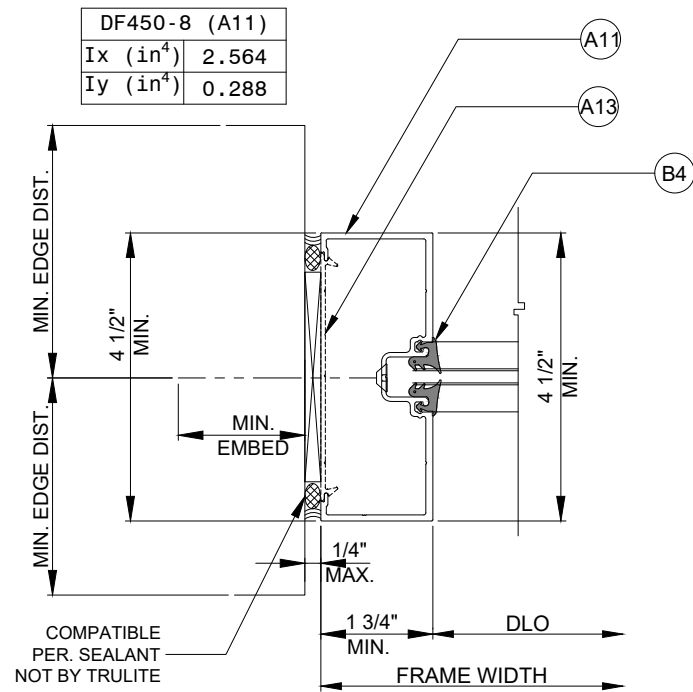
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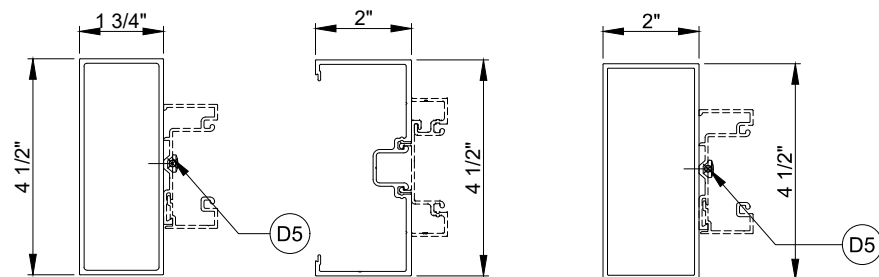
|                    |               |
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| Drwn: Bobi         | CHK: ESN      |
| Drwg. No: 24FL-104 | SCALE: N.T.S. |

SHEET NO.:

**7 OF 13**



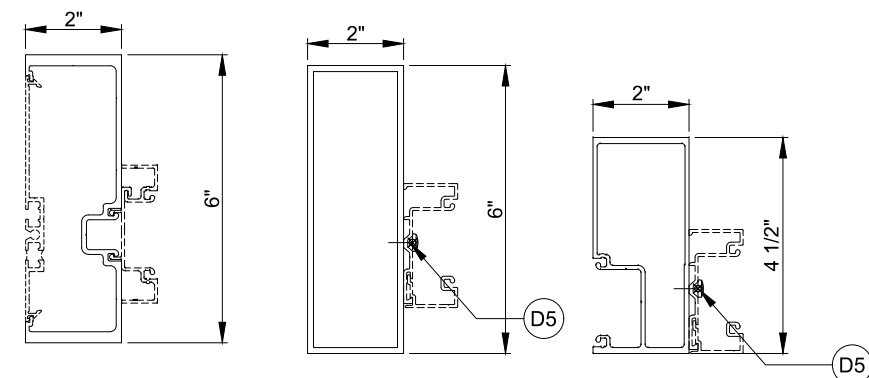
**A DOOR JAMB AT TRANSOM**



|                                   |       |
|-----------------------------------|-------|
| 10220 (A25)                       |       |
| I <sub>x</sub> (in <sup>4</sup> ) | 2.867 |
| I <sub>y</sub> (in <sup>4</sup> ) | 0.642 |

|                                   |       |
|-----------------------------------|-------|
| DF451-8 (A12)                     |       |
| I <sub>x</sub> (in <sup>4</sup> ) | 2.792 |
| I <sub>y</sub> (in <sup>4</sup> ) | 0.404 |

|                                   |       |
|-----------------------------------|-------|
| 10184 (A27)                       |       |
| I <sub>x</sub> (in <sup>4</sup> ) | 3.081 |
| I <sub>y</sub> (in <sup>4</sup> ) | 0.862 |

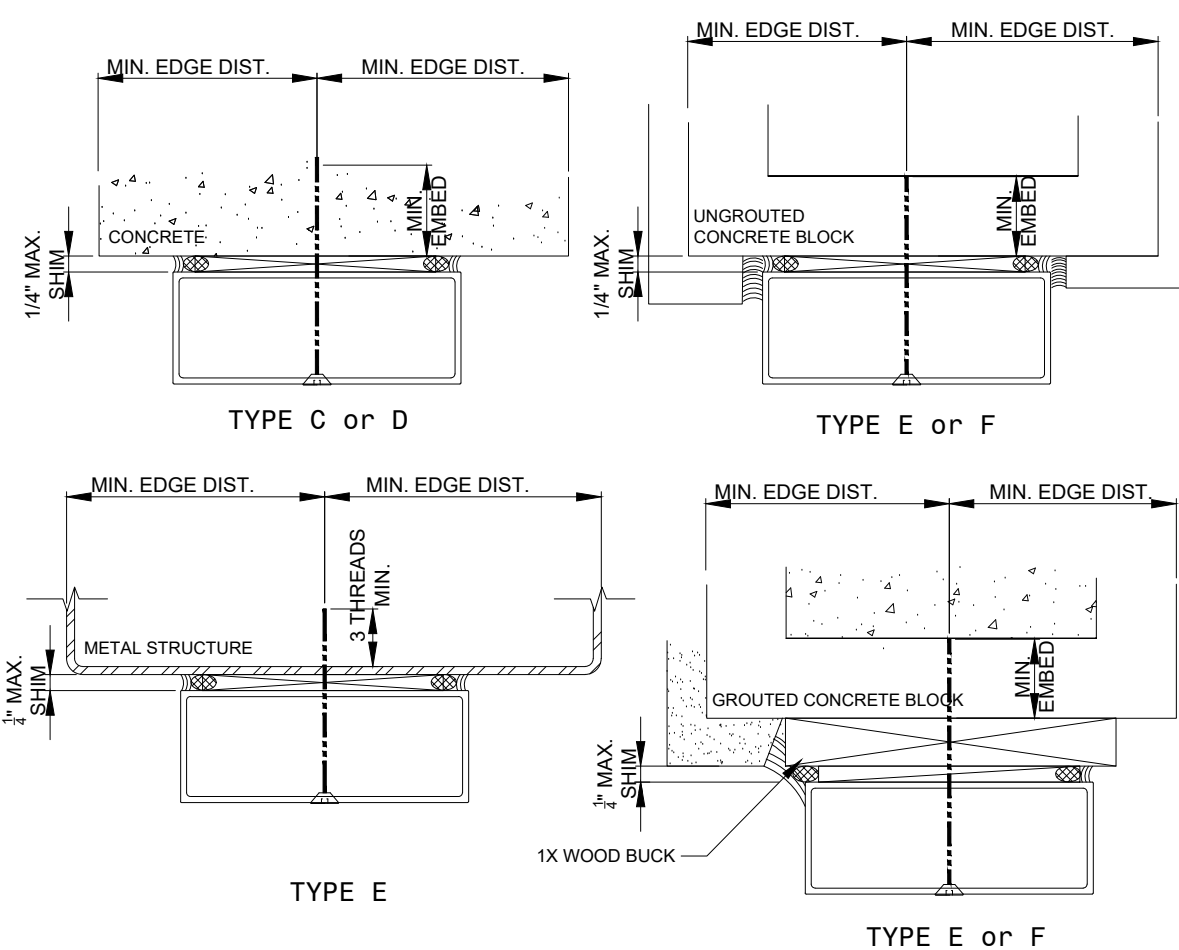
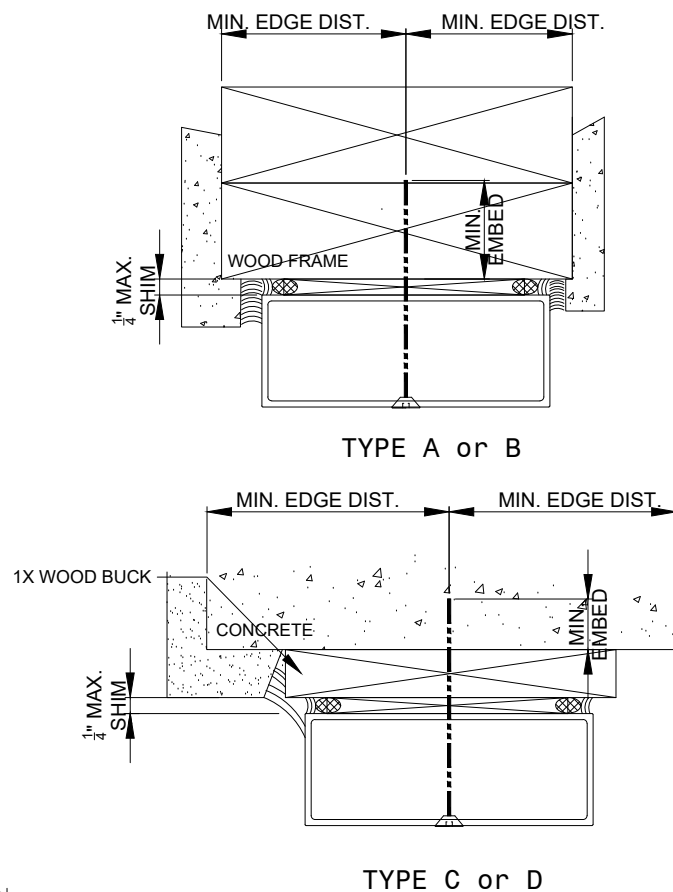


|                                   |       |
|-----------------------------------|-------|
| DF601-8 (A34)                     |       |
| I <sub>x</sub> (in <sup>4</sup> ) | 9.803 |
| I <sub>y</sub> (in <sup>4</sup> ) | 0.719 |

|                                   |       |
|-----------------------------------|-------|
| 10190 (A28)                       |       |
| I <sub>x</sub> (in <sup>4</sup> ) | 8.275 |
| I <sub>y</sub> (in <sup>4</sup> ) | 1.432 |

|                                   |       |
|-----------------------------------|-------|
| DF451-10 (A46)                    |       |
| I <sub>x</sub> (in <sup>4</sup> ) | 3.696 |
| I <sub>y</sub> (in <sup>4</sup> ) | 0.765 |

**DOOR JAMB AT TRANSOM OPTIONS**



## ANCHOR OPTIONS

|   | SUBSTRATE     | ANCHOR TYPE                                                                | MIN. EMBED (IN.)              | MIN. EDGE DIST. (IN.) |
|---|---------------|----------------------------------------------------------------------------|-------------------------------|-----------------------|
| A | WOOD          | 1/4" Ø - TAPCON (F <sub>y</sub> = 100ksi & F <sub>u</sub> = 125ksi min.)   | 1.50                          | 1.00                  |
| B |               | 1/4" Ø - ULTRACON (F <sub>y</sub> = 148ksi & F <sub>u</sub> = 164ksi min.) | 1.50                          | 1.00                  |
| C | CONCRETE      | 1/4" Ø - TAPCON (F <sub>y</sub> = 100ksi & F <sub>u</sub> = 125ksi min.)   | 1.75                          | 2.50                  |
| D |               | 1/4" Ø - ULTRACON (F <sub>y</sub> = 148ksi & F <sub>u</sub> = 164ksi min.) | 1.75                          | 2.50                  |
| E | CONC. MASONRY | 1/4" Ø - TAPCON (F <sub>y</sub> = 100ksi & F <sub>u</sub> = 125ksi min.)   | 1.25                          | 2.50                  |
| F |               | 1/4" Ø - ULTRACON (F <sub>y</sub> = 148ksi & F <sub>u</sub> = 164ksi min.) | 1.25                          | 2.50                  |
| G | METAL         | 1/4" Ø Gr. 5 Metal Screw                                                   | Min. 3 Threads pass substrate | 0.75                  |

### NOTE :

- MAXIMUM SHIM GAP = 1/4"
- MIN. SPECIFIC GRAVITY OF WOOD = 0.55
- MIN. CONCRETE COMPRESSIVE STRENGTH = 3000psi (NORMAL WEIGHT & UNCRACKED)
- MIN. COMPRESSIVE STRENGTH OF CONCRETE MASONRY = 2000PSI (MEDIUM WEIGHT & CONFORM TO ASTM C90)
- METAL SUBSTRATE SHALL BE STEEL (F<sub>y</sub>=36KSI MIN. & 18GA. THICK) OR ALUMINUM (6063-T5 MIN. & 1/16" THICK)



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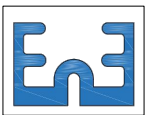
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Alpharetta GA, 30009  
p. 800-432-8132

PRODUCT:

## MS300 / WS500 Series Alum Outswing Doors HVHZ - Non-Impact

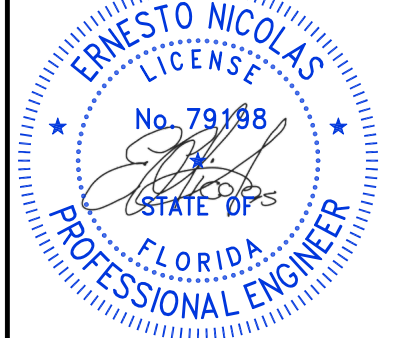
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ENGINEER:



En3 Engineering & Consultancy  
950 SW 135th Way Sunrise,  
FL 33325 P. 702 6260939  
Email: en3.engconsul@gmail.com

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FLORIDA PRODUCT APPROVAL:

**FL46722**

DATE: APRIL 28, 2024

|                    |               |
|--------------------|---------------|
| Drwn: Bobi         | CHK: ESN      |
| Drwg. No: 24FL-104 | SCALE: N.T.S. |

SHEET NO.:

**8 OF 13**



| MS 300 / WS 500 DOOR BILL OF MATERIALS |          |                                                            |               |              |
|----------------------------------------|----------|------------------------------------------------------------|---------------|--------------|
| ITEM NO.                               | PART NO. | DESCRIPTION                                                | MATERIAL      | MANUFACTURER |
| A 1                                    | 26366    | BEVELED HINGE STILE                                        | ALUM. 6063-T6 | TRULITE      |
| A 2                                    | 26015    | TOP RAIL                                                   | ALUM. 6063-T6 | TRULITE      |
| A 3                                    | 26316    | BOTTOM RAIL                                                | ALUM. 6063-T6 | TRULITE      |
| A 4                                    | 26371    | INACTIVE MEETING STILE                                     | ALUM. 6063-T6 | TRULITE      |
| A 5                                    | 26378    | ACTIVE MEETING STILE                                       | ALUM. 6063-T6 | TRULITE      |
| A 6                                    | 26375    | ADJUSTABLE ASTRAGAL                                        | ALUM. 6063-T6 | TRULITE      |
| A 7                                    | DF450-9  | 1 <sup>3</sup> / <sub>4</sub> " TRANSOM BAR / DOOR HEADER  | ALUM. 6063-T6 | TRULITE      |
| A 8                                    | DF451-9  | 2" TRANSOM BAR / DOOR HEADER                               | ALUM. 6063-T6 | TRULITE      |
| A 9                                    | CG450-11 | 1 <sup>3</sup> / <sub>4</sub> " TRANSOM HEAD (DEEP POCKET) | ALUM. 6063-T6 | TRULITE      |
| A 10                                   | CG451-1  | 2" TRANSOM HEAD                                            | ALUM. 6063-T6 | TRULITE      |
| A 11                                   | DF450-8  | 1 <sup>3</sup> / <sub>4</sub> " HINGE JAMB                 | ALUM. 6063-T6 | TRULITE      |
| A 12                                   | DF451-8  | 2" HINGE JAMB                                              | ALUM. 6063-T6 | TRULITE      |
| A 13                                   | CG450-18 | FLAT FILLER - 4" MIN. @ ANCHOR                             | ALUM. 6063-T6 | TRULITE      |
| A 14                                   | DF118    | 1" TRANSOM SASH                                            | ALUM. 6063-T6 | TRULITE      |
| A 15                                   | DF119    | TRANSOM GLASS STOP                                         | ALUM. 6063-T6 | TRULITE      |
| A 16                                   | DF120    | TRANSOM BAR ADAPTOR                                        | ALUM. 6063-T6 | TRULITE      |
| A 17                                   | 4510     | DOOR STOP                                                  | ALUM. 6063-T6 | TRULITE      |
| A 18                                   | 4518     | DOOR STOP (FOR CONT. HINGE)                                | ALUM. 6063-T6 | TRULITE      |
| A 19                                   | 1042     | 4" BUMPER THRESHOLD                                        | ALUM. 6063-T6 | TRULITE      |
| A 20                                   | 40290    | 4" SADDLE THRESHOLD                                        | ALUM. 6063-T6 | TRULITE      |
| A 21                                   | 26030    | GLASS ADAPTOR (¼" GLASS)                                   | ALUM. 6063-T6 | TRULITE      |
| A 22                                   | 31149    | GLASS ADAPTOR (⅝" IG GLASS)                                | ALUM. 6063-T6 | TRULITE      |
| A 23                                   | 40349    | GLASS ADAPTOR (1" IG GLASS)                                | ALUM. 6063-T6 | TRULITE      |
| A 24                                   | 26475    | MID-RAIL                                                   | ALUM. 6063-T6 | TRULITE      |
| A 25                                   | 10220    | DOOR HEAD / JAMB OPTION                                    | ALUM. 6063-T6 | TRULITE      |
| A 26                                   | DF601-9  | DOOR HEAD OPTION                                           | ALUM. 6063-T6 | TRULITE      |
| A 27                                   | 10184    | DOOR HEAD / JAMB OPTION                                    | ALUM. 6063-T6 | TRULITE      |
| A 28                                   | 10190    | DOOR HEAD / JAMB OPTION                                    | ALUM. 6063-T6 | TRULITE      |
| A 29                                   | 26364    | 5" TOP RAIL OPTION                                         | ALUM. 6063-T6 | TRULITE      |
| A 30                                   | 26316    | 6 <sup>1</sup> / <sub>2</sub> " BOTTOM RAIL OPTION         | ALUM. 6063-T6 | TRULITE      |
| A 31                                   | 26599    | 7 <sup>1</sup> / <sub>2</sub> " BOTTOM RAIL OPTION         | ALUM. 6063-T6 | TRULITE      |
| A 32                                   | 26600    | 10" BOTTOM RAIL OPTION                                     | ALUM. 6063-T6 | TRULITE      |
| A 33                                   | 40296    | 1 <sup>1</sup> / <sub>2</sub> " DEEP BUMPER THRESHOLD      | ALUM. 6063-T6 | TRULITE      |
| A 34                                   | DF601-8  | 6" DOOR JAMB                                               | ALUM. 6063-T6 | TRULITE      |
| A 35                                   | CG601-8  | 6" FLAT FILLER - 4" MIN. AT ANCHOR                         | ALUM. 6063-T6 | TRULITE      |
| A 36                                   | CT601-31 | 6" LIGHT MULLION / HEAD (THERMAL)                          | ALUM. 6063-T6 | TRULITE      |
| A 37                                   | CT601-7  | 6" HEAVY MULLION (THERMAL)                                 | ALUM. 6063-T6 | TRULITE      |

| ITEM NO. | PART NO. | DESCRIPTION                                  | MATERIAL      | MANUFACTURER |
|----------|----------|----------------------------------------------|---------------|--------------|
| A 38     | CG451-11 | 2" TRANSOM HEAD                              | ALUM. 6063-T6 | TRULITE      |
| A 39     | CT451-31 | 2" TRANSOM HEAD (THERMAL)                    | ALUM. 6063-T6 | TRULITE      |
| A 40     | CT451-11 | 2" TRANSOM HEAD (THERMAL)                    | ALUM. 6063-T6 | TRULITE      |
|          |          |                                              |               |              |
| A 42     | FG451-4  | 2" TRANSOM HEAD - FRONT GLAZED               | ALUM. 6063-T6 | TRULITE      |
| A 43     | FT451-4  | 2" TRANSOM HEAD-FRONT GLAZED (THERMAL)       | ALUM. 6063-T6 | TRULITE      |
| A 44     | 26013    | MID-RAIL ADAPTOR                             | ALUM. 6063-T6 | TRULITE      |
| A 45     | CG450-1  | 1 <sup>3</sup> / <sub>4</sub> " TRANSOM HEAD | ALUM. 6063-T6 | TRULITE      |
| A 46     | DF451-10 | DOOR JAMB                                    | ALUM. 6063-T6 | TRULITE      |
| A 47     | 26361    | WS HINGE STILE                               | ALUM. 6063-T6 | TRULITE      |
| A 48     | 26373    | WS INACTIVE MTG. STILE                       | ALUM. 6063-T6 | TRULITE      |
| A 49     | 26380    | WS ACTIVE MTG. STILE                         | ALUM. 6063-T6 | TRULITE      |
| A 50     | 40905    | WS MID-RAIL OPTION                           | ALUM. 6063-T6 | TRULITE      |

|      |             |                                                  |      |               |
|------|-------------|--------------------------------------------------|------|---------------|
| B 1  | 05212       | GLAZING GASKET (DUR. 60 +-5, SHORE A)            | EPDM | TRULITE       |
| B 2  | SPACER      | SETTING BLOCK FOR ¼" GLASS                       | PVC  | M & M PLASTIC |
| B 3  | 22038       | TRANS. SET. BLK. (AT L/8) (DUR. 85 +-5, SHORE A) | EPDM | TRULITE       |
| B 4  | RG-1        | GLAZING GASKET (DUR. 70 +-5, SHORE A)            | EPDM | TRULITE       |
| B 5  | RG-5        | DOOR GASKET (DUR. 60 +-5, SHORE A)               | EPDM | TRULITE       |
| B 6  | 58045       | SETTING BLOCK (DUR. 85 +-5, SHORE A)             | EPDM | TRULITE       |
| B 7  | RSB-19      | TRANS. SET. BLK. (AT L/8) (DUR. 70 +-5, SHORE A) | EPDM | TRULITE       |
| B 8  | 05207       | GLAZING GASKET (DUR. 70 +-5, SHORE A)            | EPDM | TRULITE       |
| B 9  | 05333       | GLAZING GASKET (DUR. 70 +-5, SHORE A)            | EPDM | TRULITE       |
| B 10 | H74 / 24120 | THRESHOLD GASKET (DUR. 60 +-5, SHORE A)          | EPDM | TRULITE       |
| B 11 | SPACER1IN   | SETTING BLOCK FOR 1" IG GLASS                    | PVC  | M & M PLASTIC |
|      |             |                                                  |      |               |

|     |       |                                |                |                      |
|-----|-------|--------------------------------|----------------|----------------------|
| C 1 | 24110 | PILE WATHERSTRP GASKET         | YARN           | AMESBURY GROUP       |
| C 2 | 23301 | RUBBER GROMMET                 | NITRILE        | RUBBERGROMMET.COM    |
| C 3 | 25047 | DOOR BOTTOM SWEEP              | VINYL / ALUM.  | HAGER                |
| C 4 | 40671 | TUBE CLIP                      | GALV. STEEL    | VARIES               |
| C 5 | -     | ALUMIN GLASS SPACER            | ALUMINUM       | TRULITE              |
| C 6 | -     | KODISPACE 4SG WARM EDGE SPACER | THERMO PLASTIC | HB FULLER KOMMERLING |

|     |         |                                                |                   |                   |
|-----|---------|------------------------------------------------|-------------------|-------------------|
| D 1 | FAS14-2 | ¼"-14 X 1" HWH-F MS - ASSEMBLY SCREW           | ZINC COATED STEEL | ALLOY FASTENER    |
| D 2 | 23302   | #6 X ¾" UC-PFH TEK - SCREW AT ASTRAGAL         | NITRILE           | RUBBERGROMMET.COM |
| D 3 | 23233   | 1/4-20 X 1 ½" PFH @ 12" O.C. MAX.              | ZINC COATED STEEL | ALLOY FASTENER    |
| D 4 | 23079   | #10-24 x ¾" UC PFH                             | ZINC COATED STEEL | ALLOY FASTENER    |
| D 5 | 23163   | #12 x ¾" UC PFH MS (2" FROM ENDS & @ 12" O.C.) | ZINC COATED STEEL | ALLOY FASTENER    |



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1750 Founders PKWY, Ste. 154,  
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PRODUCT:

**MS300 / WS500**

**Series**

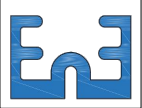
**Alum Outswing**

**Doors**

*HVHZ - Non-Impact*

| REVN | DATE/REMARKS |
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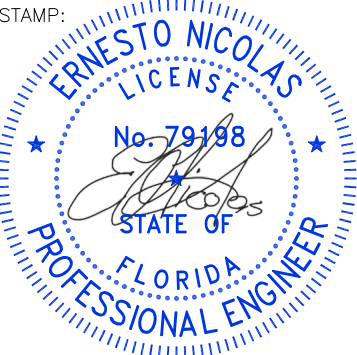
ENGINEER:



*En3 Engineering & Consultancy*

950 SW 135th Way Sunrise,  
FL 33325 P. 702 6260939  
Email: en3.engconsul@gmail.com

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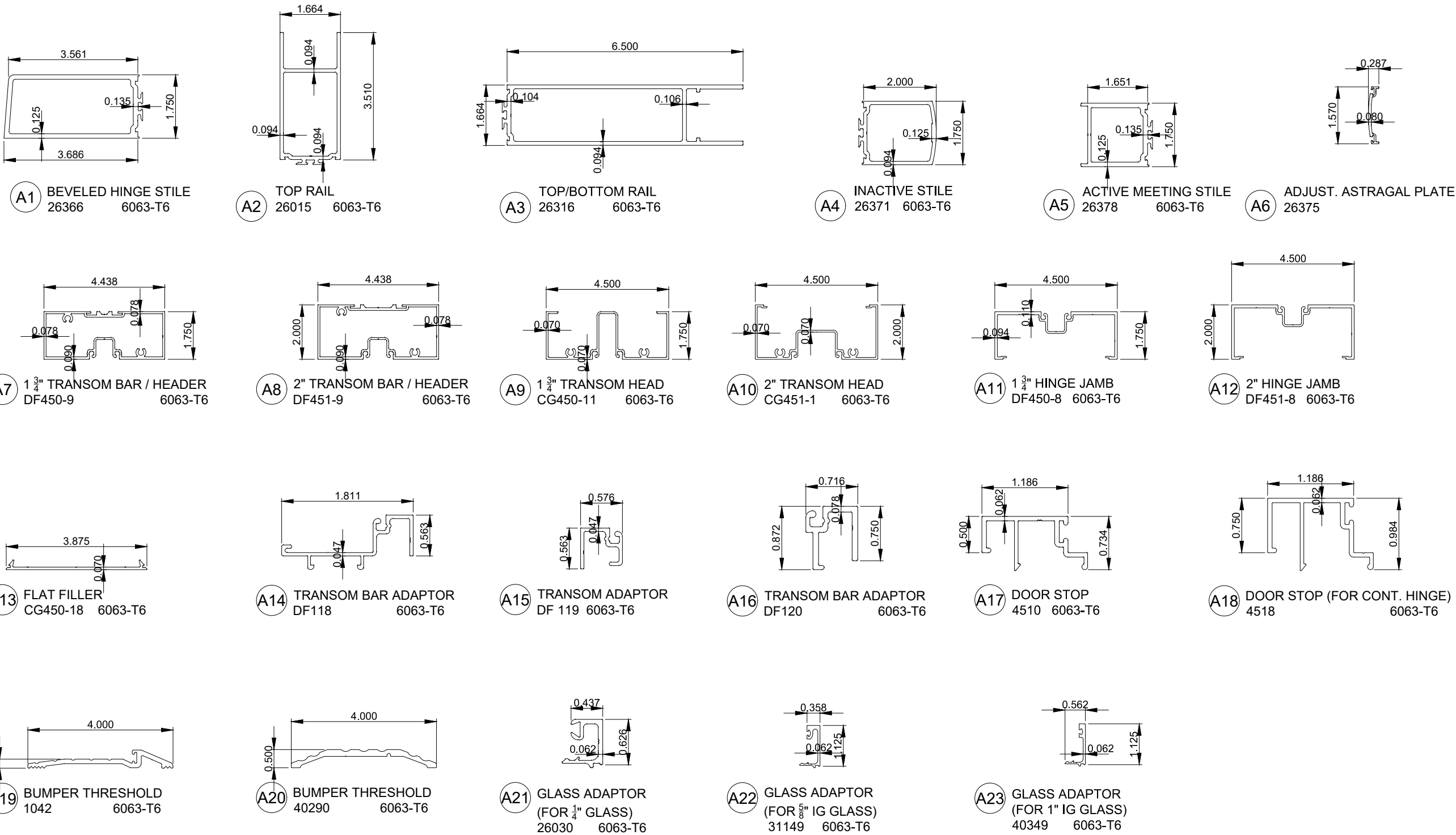
DATE: APRIL 28, 2024

|                    |               |
|--------------------|---------------|
| Drwn: Bobi         | CHK: ESN      |
| Drwg. No: 24FL-104 | SCALE: N.T.S. |

SHEET NO.:

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MS 300 / WS 500 PARTS LIST



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p. 800-432-8132

PRODUCT:

**MS300 / WS500**  
**Series**  
**Alum Outswing**  
**Doors**  
*HVHZ - Non-Impact*

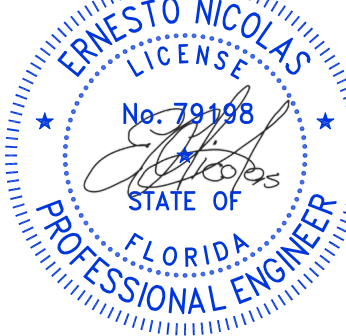
| REVN | DATE/REMARKS |
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ENGINEER:



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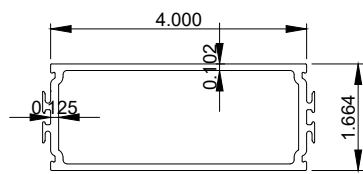
**FL46722**

DATE: APRIL 28, 2024

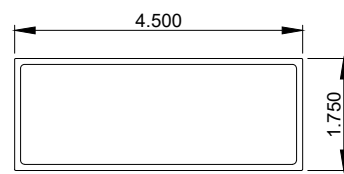
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| Drwg. No: 24FL-104 | SCALE: N.T.S. |

SHEET NO.:

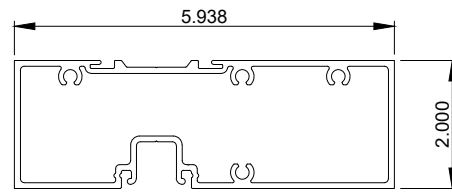
**10 OF 13**



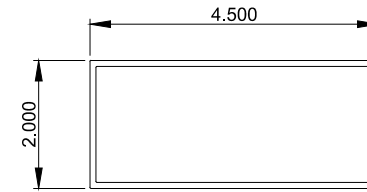
A24 MID-RAIL OPTION  
26475 6063-T6



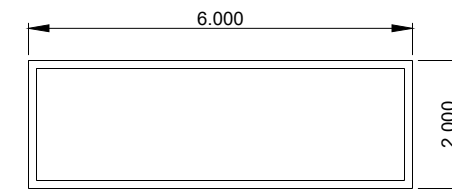
A25 DOOR HEAD/JAMB OPTION  
10220 6063-T6



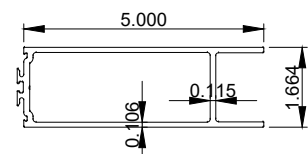
A26 DOOR HEAD/JAMB OPTION  
DF601-9 6063-T6



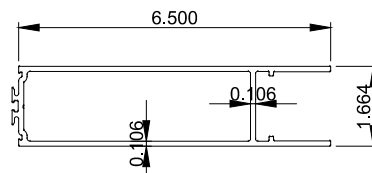
A27 DOOR HEAD/JAMB OPTION  
10184 6063-T6



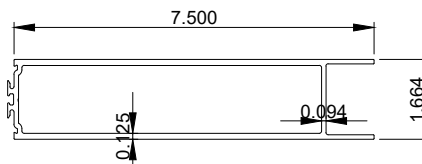
A28 DOOR HEAD/JAMB OPTION  
10190 6063-T6



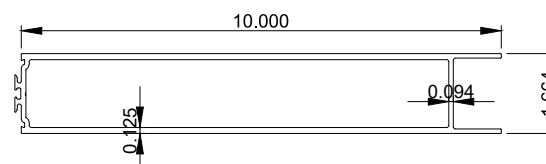
A29 BOTTOM RAIL OPTION  
26364 6063-T6



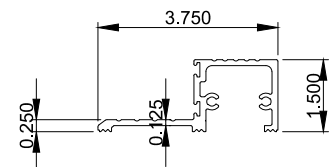
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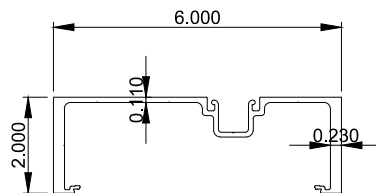
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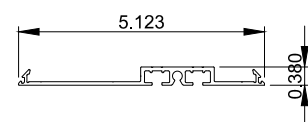
A32 BOTTOM RAIL OPTION  
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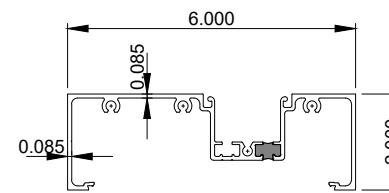
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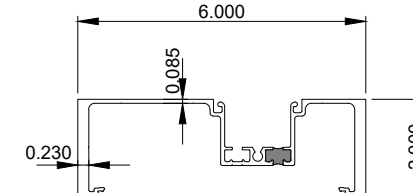
A34 6\"/>



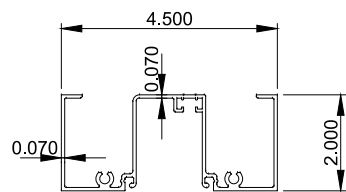
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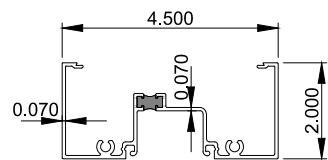
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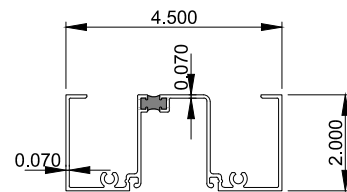
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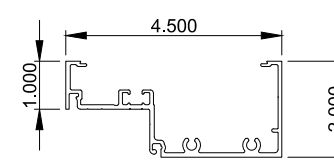
A38 2\"/>



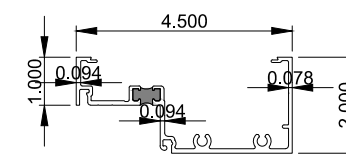
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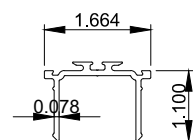
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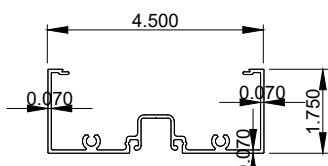
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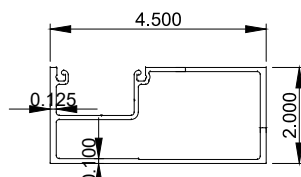
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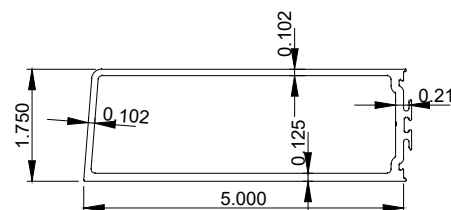
A44 MID-RAIL ADAPTOR  
26013 6063-T6



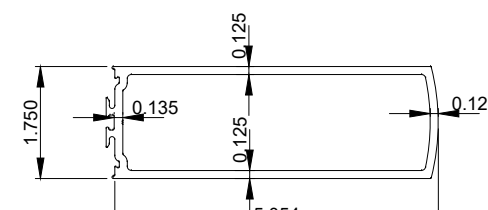
A45 1 3/4\"/>



A46 1 3/4\"/>



A47 WS HINGE STILE  
26361 6063-T6



A48 WS INACTIVE MTG. STILE  
26373 6063-T6



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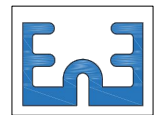
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PRODUCT:

**MS300 / WS500  
Series  
Alum Outswing  
Doors**  
HVHZ - Non-Impact

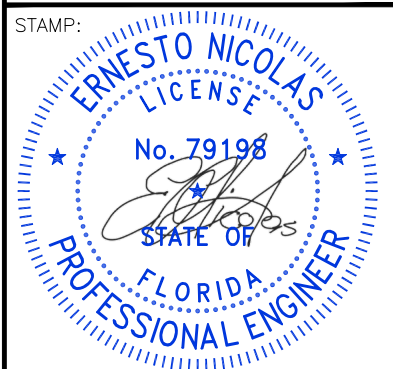
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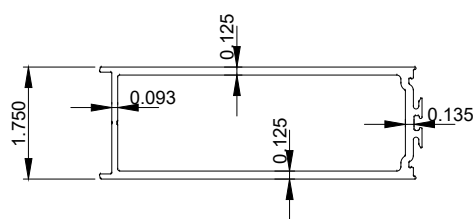
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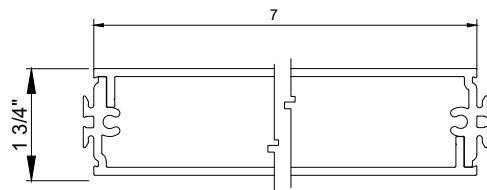
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| Drwn: Bobi         | CHK: ESN      |
| Drwg. No: 24FL-104 | SCALE: N.T.S. |

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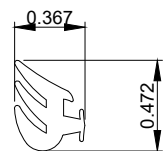
**11 OF 13**



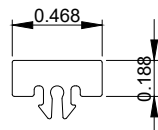
**(A49)** WS ACTIVE MTG. STILE  
26380 6063-T6



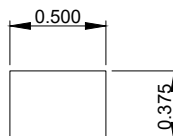
**(A50)** WS MID-RAIL OPTION  
40905 6063-T6



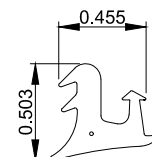
**(B1)** GLAZING GASKET  
(FOR 1/4" MONOLITHIC)  
05212 EPDM



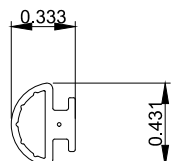
**(B2)** DOOR GLASS SPACER  
(FOR 1/4" MONOLITHIC)  
SPACER PVC



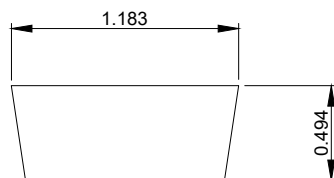
**(B3)** TRANSOM GLASS SETTING BLOCK  
(FOR 1/4" MONOLITHIC)  
22038 EPDM



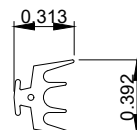
**(B4)** TRANSOM GLAZING GASKET  
RG-1 EPDM



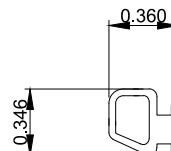
**(B5)** DOOR GASKET  
RG-5 EPDM



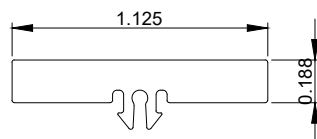
**(B7)** TRANSOM GLASS SETTING BLOCK  
RSB-19 EPDM



**(B8)** DOOR GLAZING GASKET  
05207 EPDM



**(B10)** THRESHOLD GASKET  
H74 EPDM



**(B6)** DOOR GLASS SPACER  
(FOR 1" MONOLITHIC)  
SPACER1IN PVC

PRODUCT:

**MS300 / WS500**  
**Series**  
**Alum Outswing**  
**Doors**  
*HVHZ - Non-Impact*

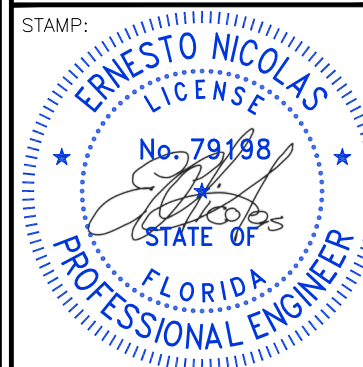
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Email: en3.engconsul@gmail.com

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| Drwn: Bobi         | CHK: ESN      |
| Drwg. No: 24FL-104 | SCALE: N.T.S. |

SHEET NO.:

**12 OF 13**

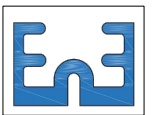


PRODUCT:

**MS300 / WS500  
Series  
Alum Outswing  
Doors**  
HVHZ - Non-Impact

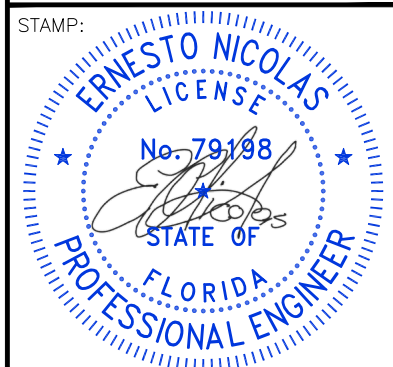
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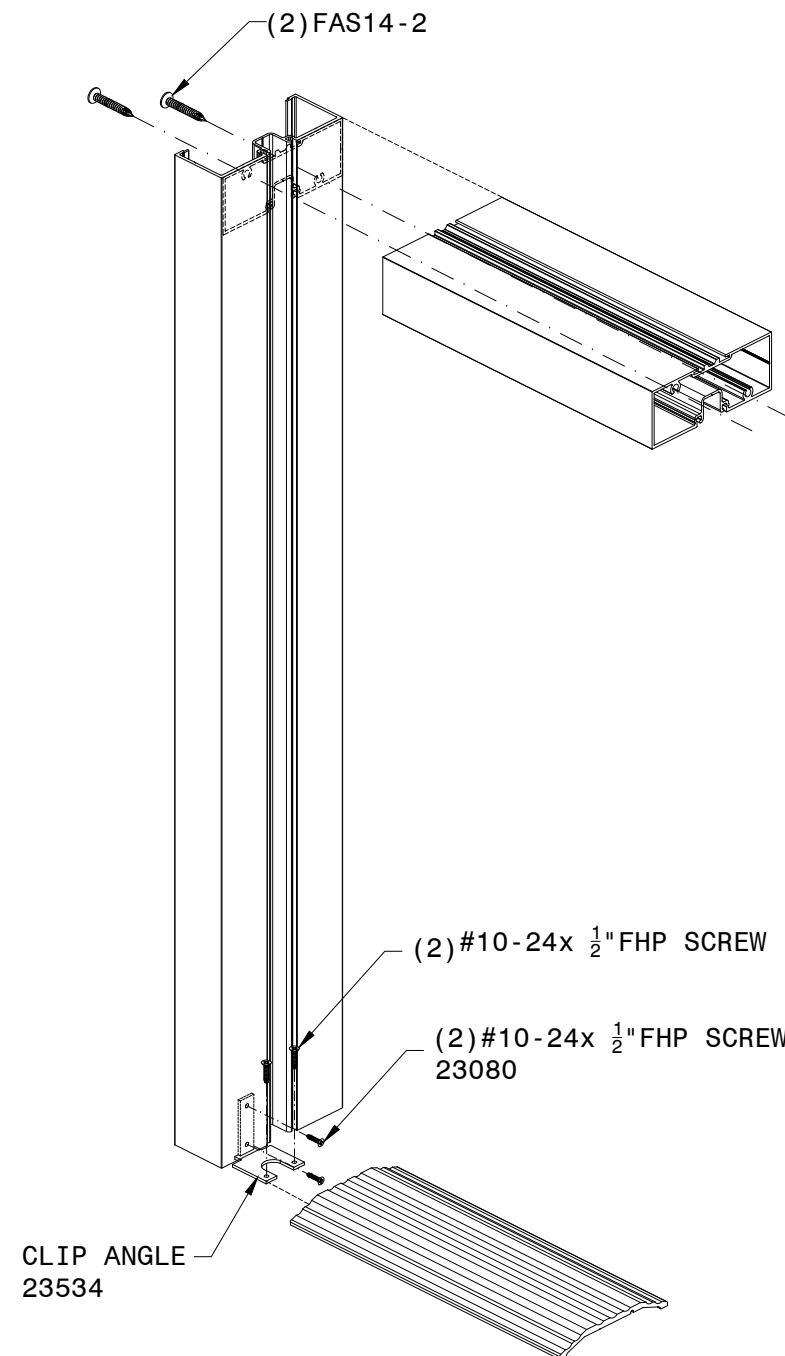
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DATE: APRIL 28, 2024

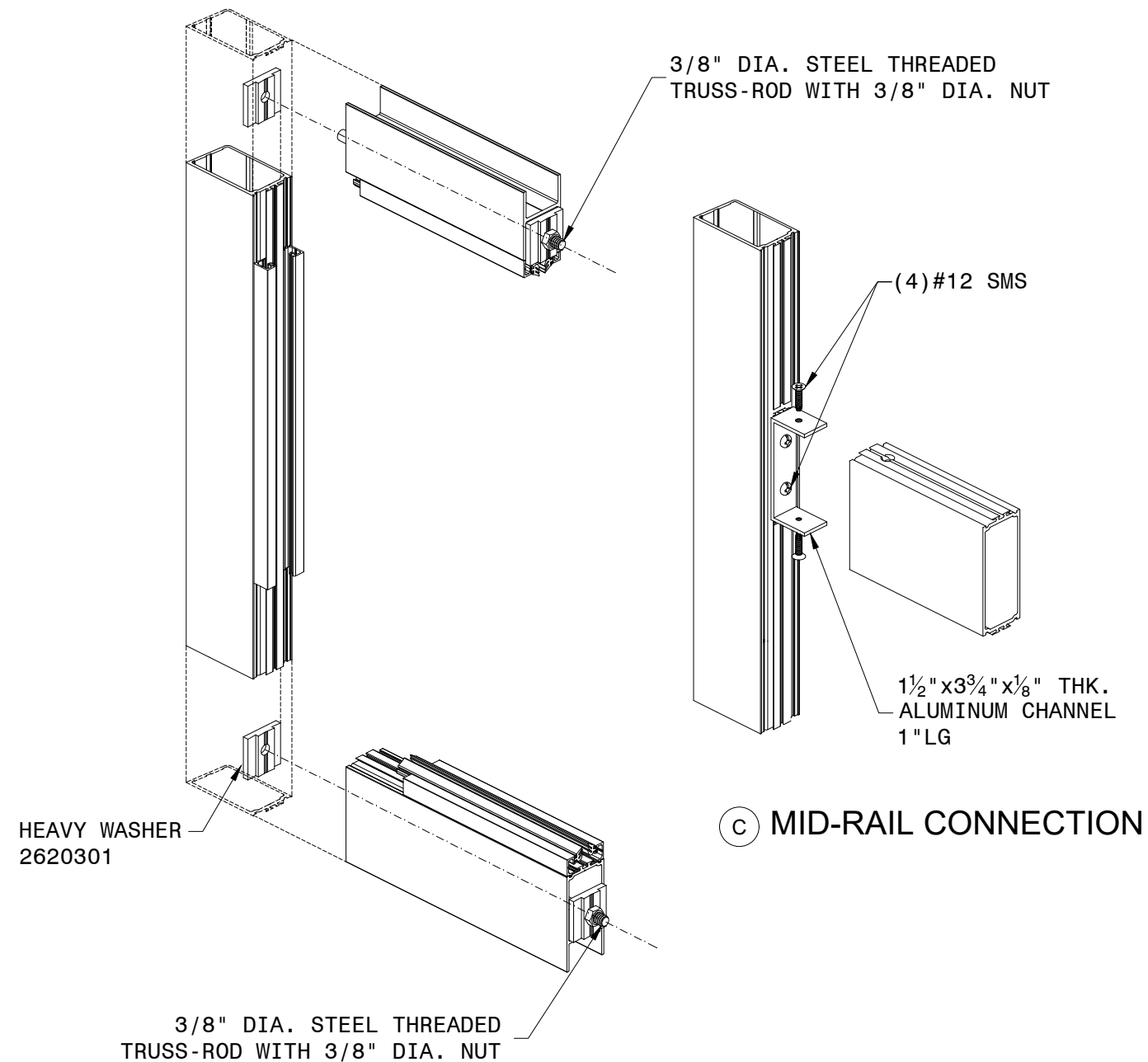
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| Drwn: Bobi         | CHK: ESN      |
| Drwg. No: 24FL-104 | SCALE: N.T.S. |

SHEET NO.:

**13 OF 13**



**(A) FRAME CORNER CONNECTION**



**(B) DOOR PANEL CORNER CONNECTION**

**(C) MID-RAIL CONNECTION**