

TRULITE GLASS & ALUMINUM SOLUTIONS

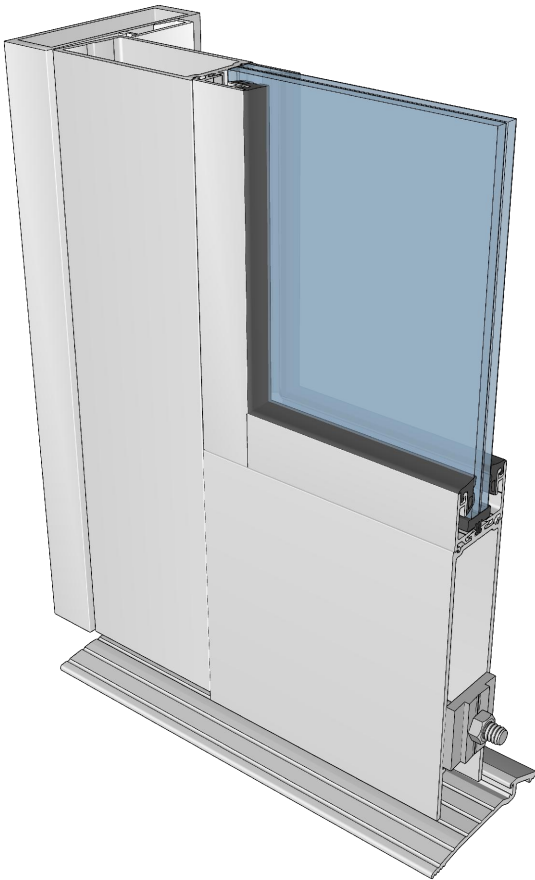
SERIES 351E IMPACT OUTSWING DOOR SYSTEM

HVHZ LMI LEVEL 'E' (ESSENTIAL FACILITY) IMPACT

GENERAL NOTES:

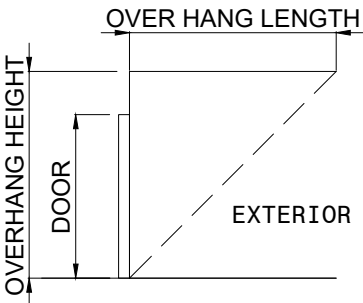
1. THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ) AND HAS BEEN TESTED TO THE FOLLOWING STANDARDS:
- TAS202-94 (ASTM E283, ASTM E330)
 - TAS201-94 (ASTM E1996)
 - TAS203-94 (ASTM E1886)
 - AAMA 1304

- DOORS ARE TESTED TO COMPLY WITH MISSILE LEVEL "E" (80ft/sec) IMPACT AND QUALIFIED FOR USE ON ESSENTIAL FACILITIES.
2. DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.
3. CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.
4. THE MAIN STRUCTURE WHERE THIS DOOR SYSTEM WILL BE INSTALLED MUST BE CAPABLE OF SUPPORTING ALL THE LOADS IMPOSED BY THIS DOOR SYSTEM.
5. ANCHORS SHALL BE AS LISTED. SPACED AS SHOWN ON DETAILS. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS REQUIRED. ANCHOR 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 GROUTED FILLED BLOCK (CMU), 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. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. INSTALLATION ANCHORS MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
7. 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.



8. ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.
9. A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
10. ULTIMATE LOAD OBTAINED FROM APPLICABLE ASCE7 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.
11. GASKETS USED IN THIS FENESTRATION PRODUCT ARE IN COMPLIANCE WITH ASTM STANDARD C864.

NOTE:
DOOR ASSEMBLIES SHOULD BE INSTALLED IN LOCATIONS WHERE THEY 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 NON-HABITABLE AREAS WHERE WATER INFILTRATION IS ACCEPTABLE.



$$\text{OH RATIO} = \frac{\text{OVERHANG LENGTH}}{\text{OVERHANG HEIGHT}} \geq 1$$

ABBREVIATIONS:

DLO - DAYLIGHT OPENING
TYP. - TYPICAL
FH - FRAME HEIGHT
DOW - DOOR OPENING WIDTH
DOH - DOOR OPENING HEIGHT
DP - DESIGN PRESSURE
N.T.S. - NOT TO SCALE
FPA - FLORIDA PRODUCT APPROVAL
FBC - FLORIDA BUILDING CODE

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 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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Peachtree City, GA 30269
p. 800-432-8132

PRODUCT:

**351E Series
Alum Outswing
Doors**
HVHZ - LMI LEVEL 'E'

REVN	DATE/REMARKS

ENGINEER:

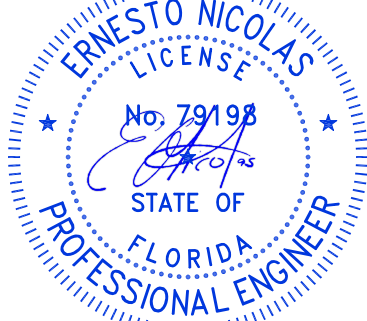


En3 Engineering & Consultancy

950 SW 135th Way Sunrise,
FL 33325 P. 786 474 3876

Email: en3.engconsul@gmail.com

STAMP:



Ernesto
Nicolas

Digitally signed by
Ernesto Nicolas
Date: 2025.08.20
18:41:24 -04'00'

FLORIDA PRODUCT APPROVAL:

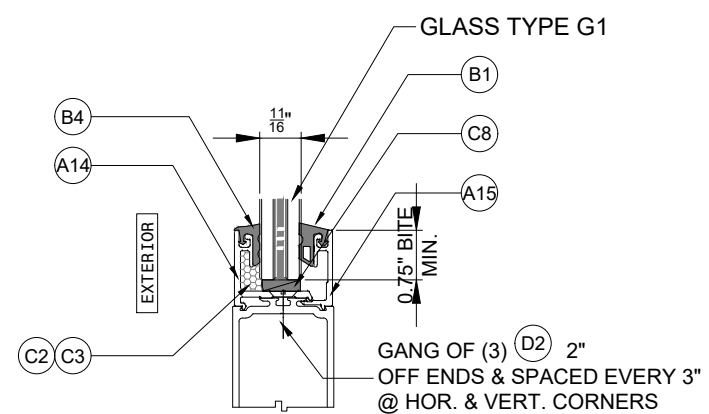
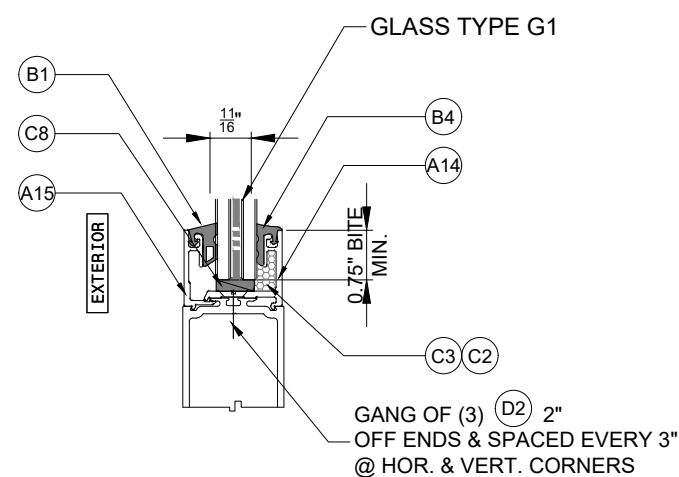
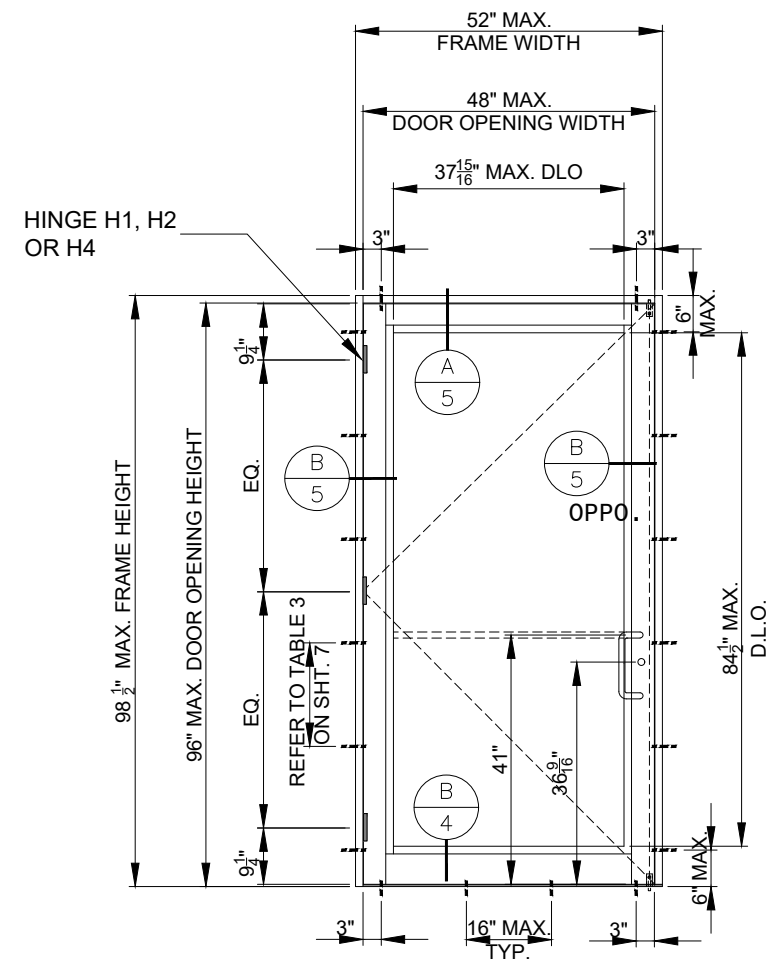
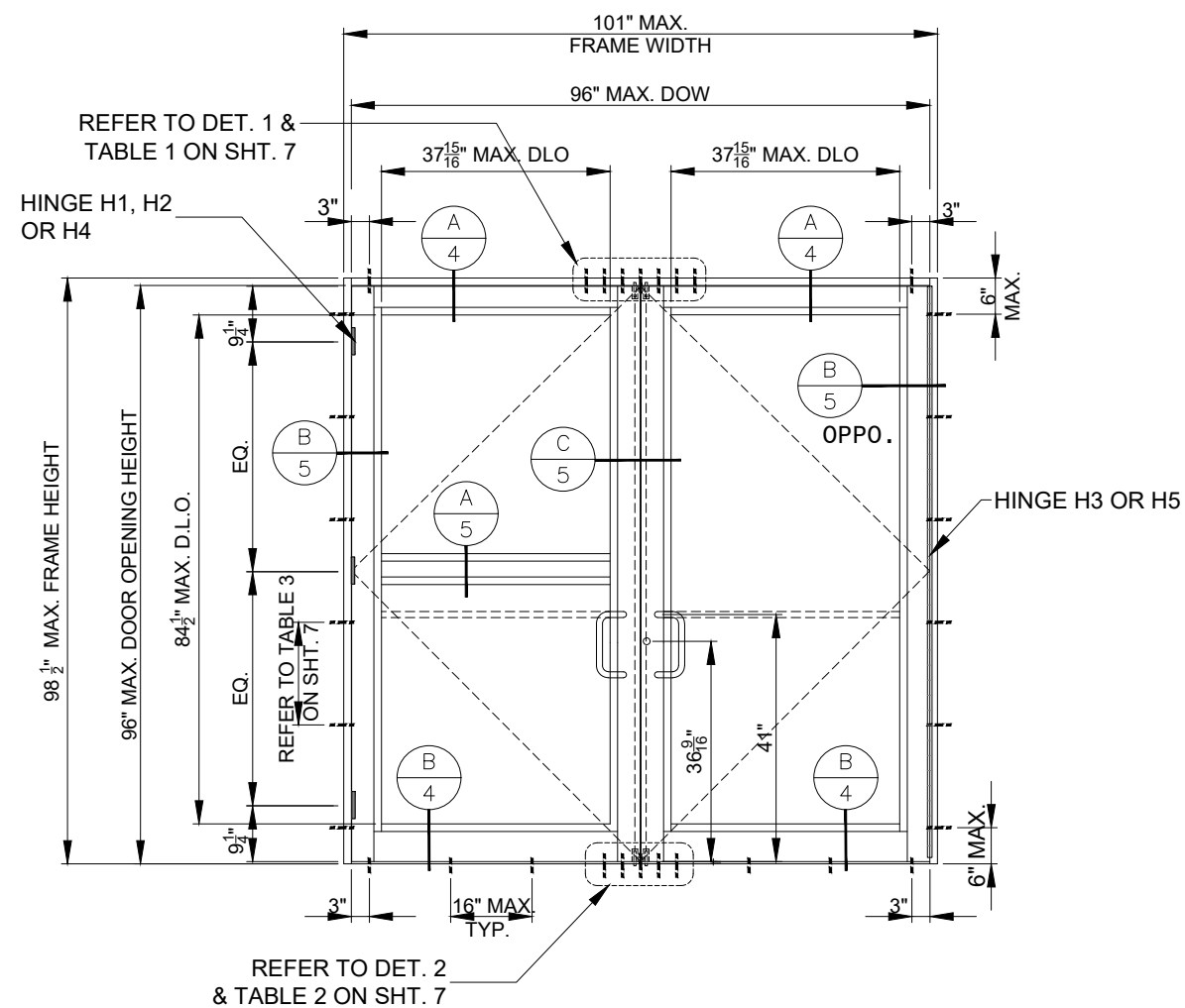
FL47727

DATE: **AUG. 5, 2025**

Drwn: Bobi	CHK: ESN
Drwg. No: 25FL-104	SCALE: N.T.S.

SHEET NO.:

1 of 10



G1 - 1/4" H.S. GLASS
 - 0.180" SENTRYGLAS INTERLAYER
 BY KURARAY AMERICA, INC.
 - 1/4" H.S. GLASS

PRODUCT:

351E Series Alum Outswing Doors

HVHZ - LMI LEVEL 'E'

REVN	DATE/REMARKS

ENGINEER:

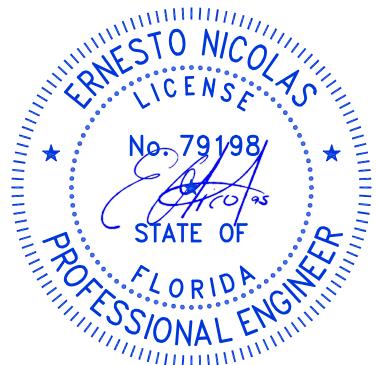


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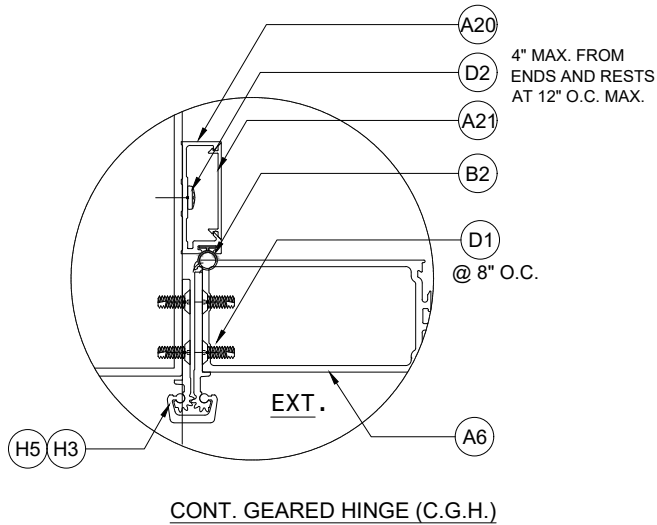
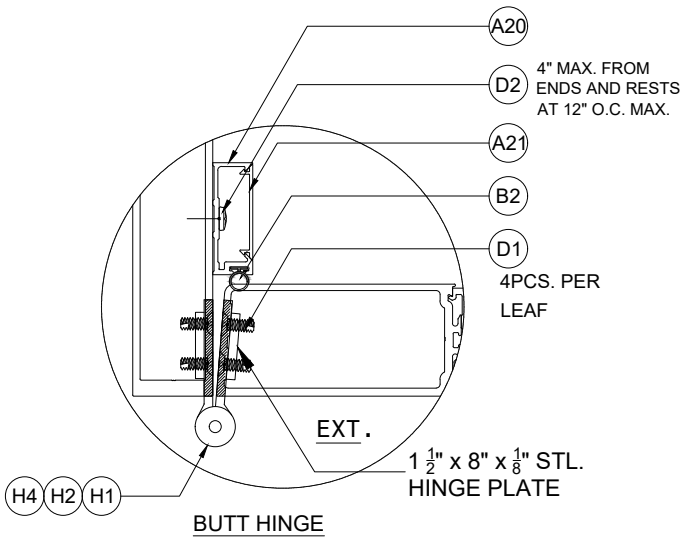
CHK: ESN

Drwg. No: 25FL-104	Scale: 1/8" = 1'-0"
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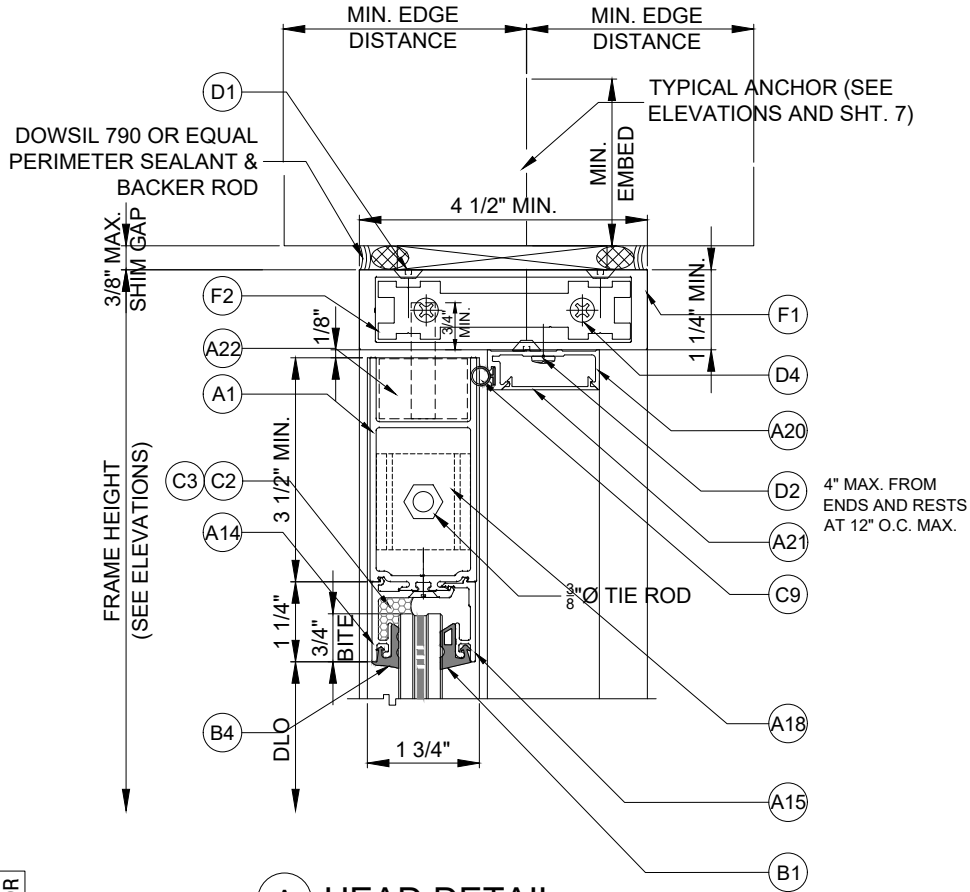
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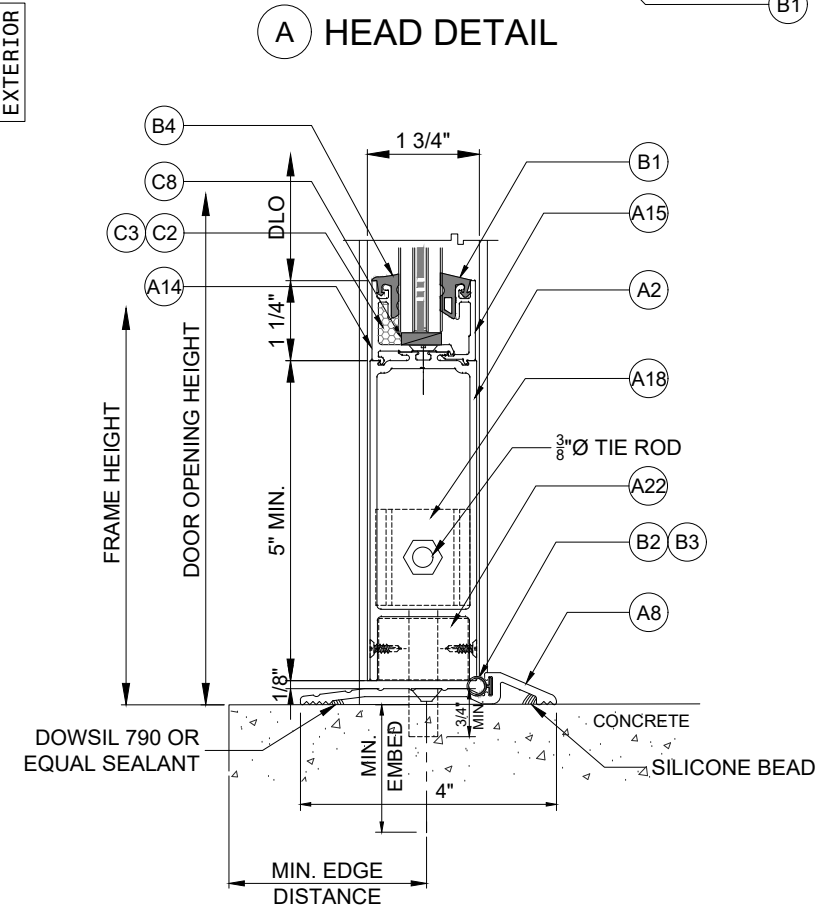
HINGE OPTIONS			
TYPE	MANUFACTURER	DESCRIPTION	DP (psf)
H1	HAGER / IMPERIAL USA (GLOBAL DOOR)	4 1/2" x 4" STANDARD NRP BUTT HINGE	±85
H2	ASSA ABLOY McKINNEY	4 1/2" x 4" STANDARD NRP BUTT HINGE	±85
H3	PEMKO	CONTINUOUS GEARED HINGE	±85
H4	FIRST CHOICE A663	4 1/2" x 4" STANDARD NRP BUTT HINGE	±85
H5	ARCHITECTURAL BUILDING HARDWARE (ABH) 170HD	CONTINUOUS GEARED HINGE	±85



NOTE: HINGES SHOWN ARE IMAGE ONLY.
ACTUAL PRODUCT MAY VARY



A HEAD DETAIL



B SILL DETAIL

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Alum Outswing
Doors**
HVHZ - LMI LEVEL 'E'

REVN DATE/REMARKS

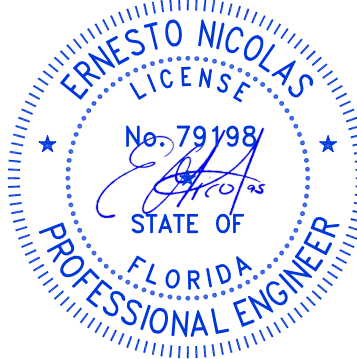
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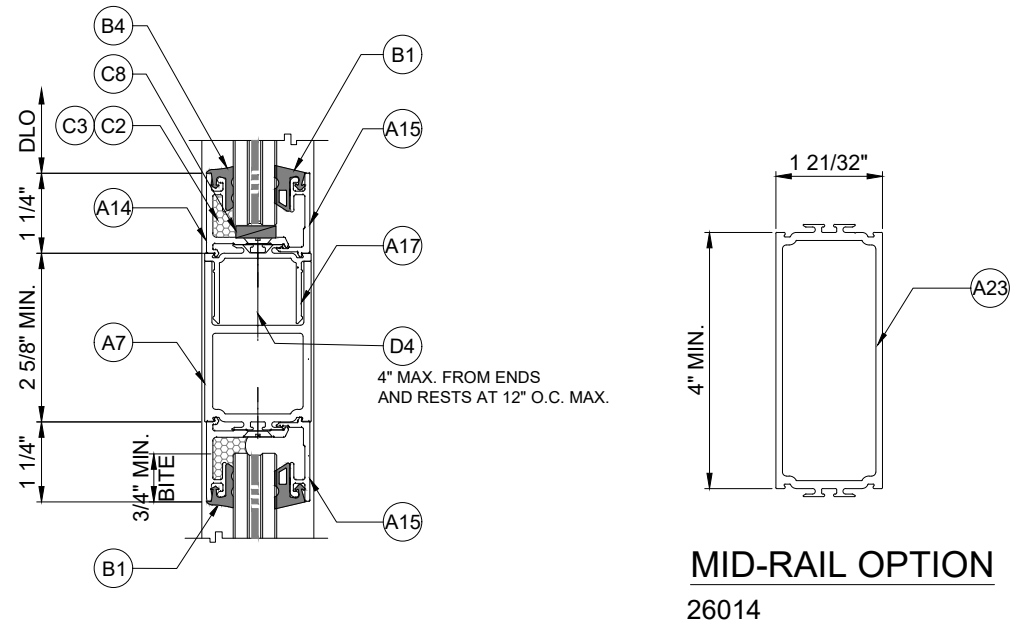
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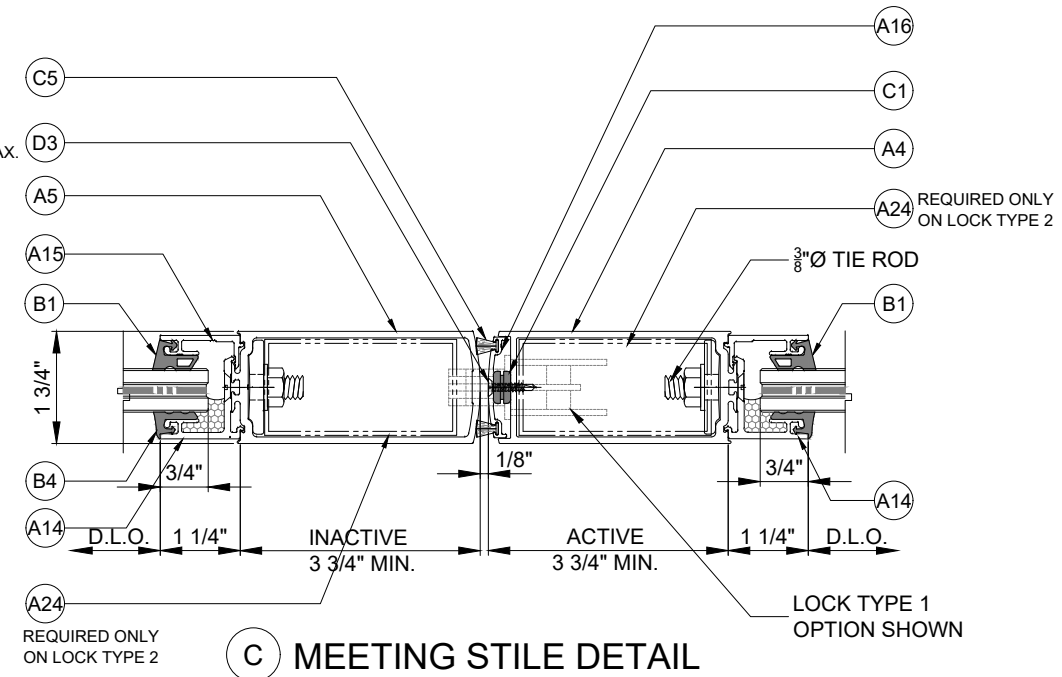
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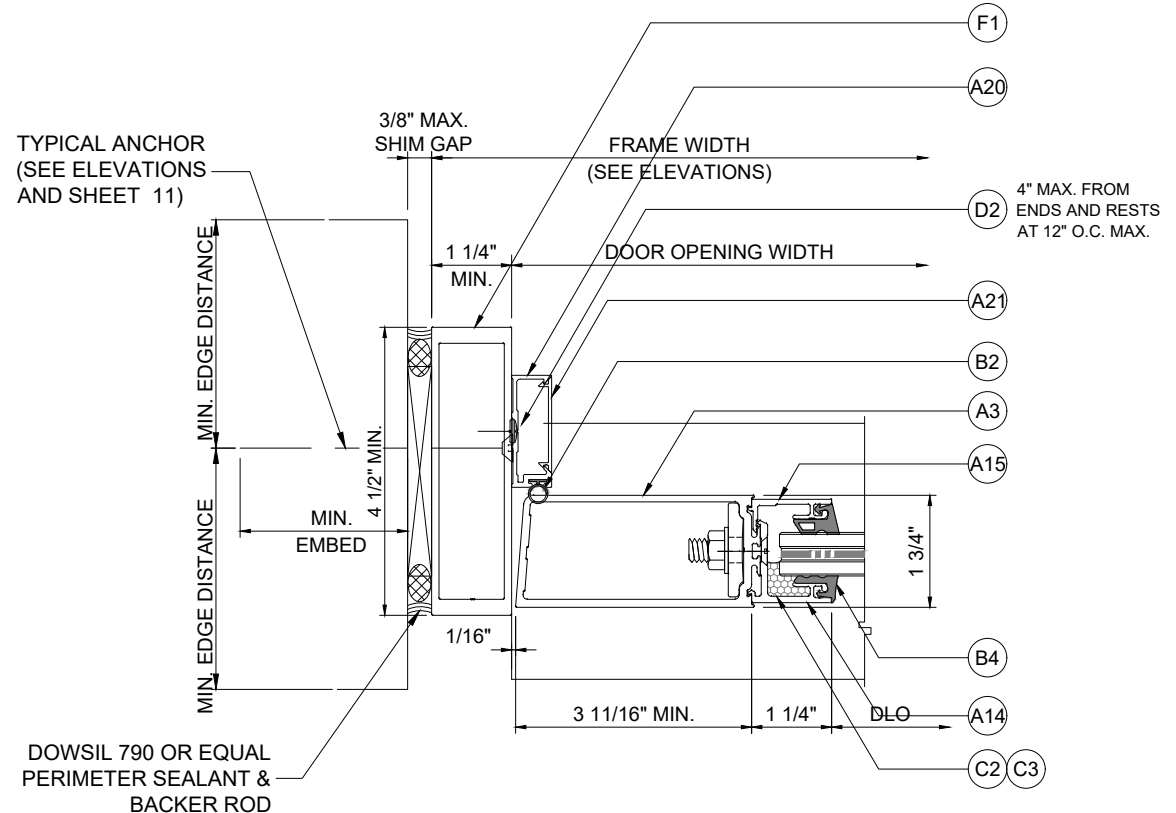
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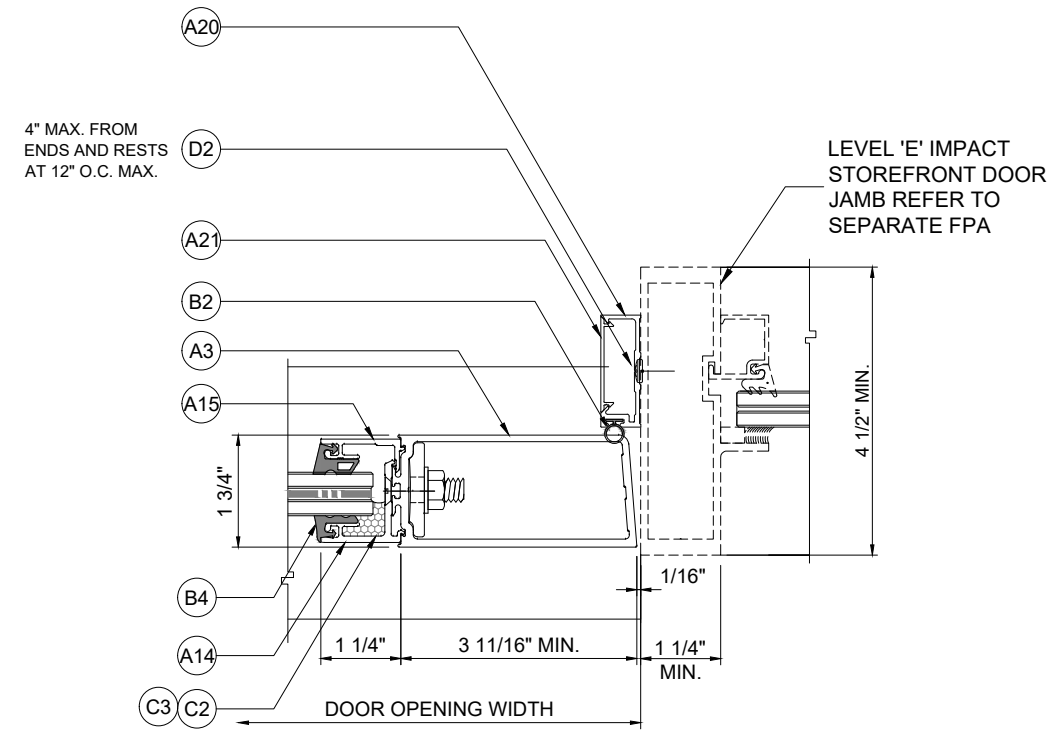
A MID-RAIL DETAIL



C MEETING STILE DETAIL



B DOOR JAMB/HINGE STILE DETAIL



D JAMB / HINGE STILE WITH SIDELITE
REFER TO LEVEL 'E' IMPACT STOREFRONT SYSTEM FOR JAMB CAPACITY. THE LOWEST CAPACITY BETWEEN THE DOOR AND FRAME SHALL GOVERN

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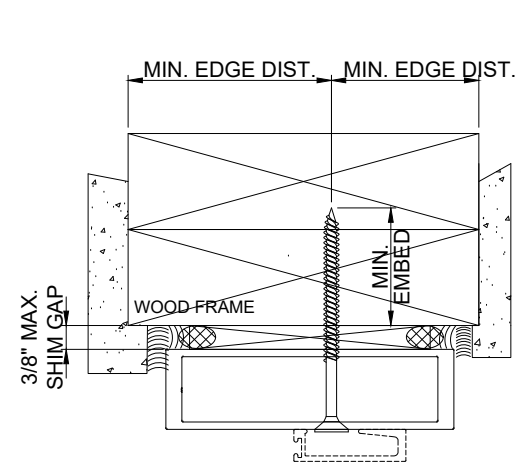
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FL 33325 P. 786 474 3876
Email: en3.engconsul@gmail.com

STAMP:
ERNESTO NICOLAS
LICENSE
No. 79198
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

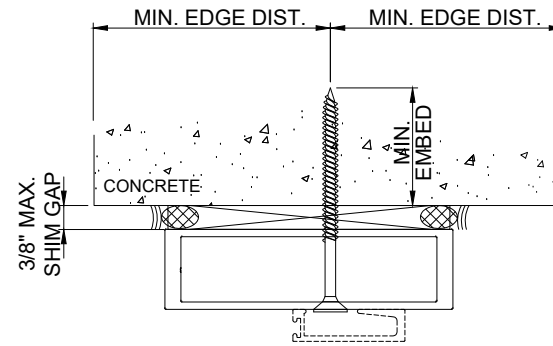
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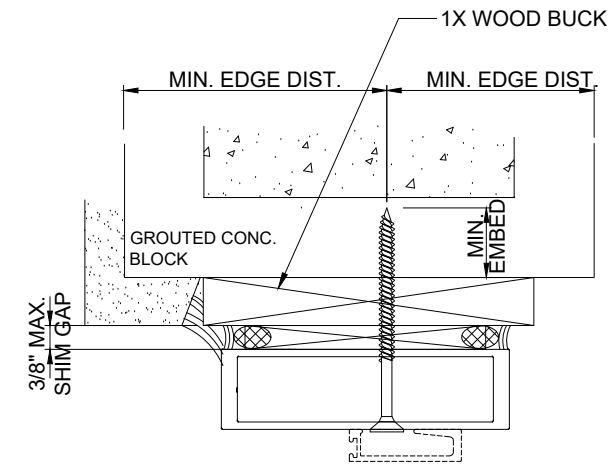
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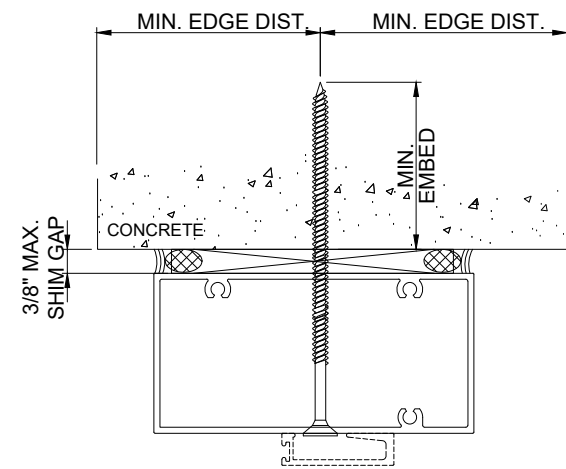
TYPE A or B



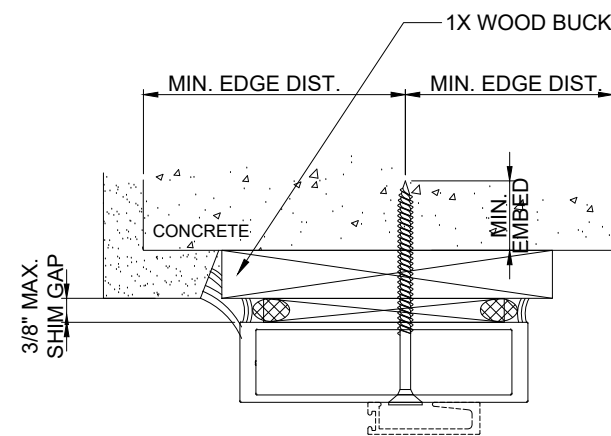
TYPE C or D



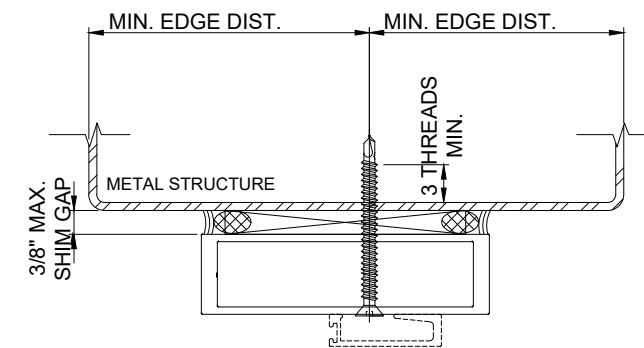
TYPE E



TYPE C or D



TYPE C or D



TYPE F

ANCHOR OPTIONS

	SUBSTRATE	ANCHOR TYPE	MIN. EMBED (IN.)	MIN. EDGE DIST. (IN.)
A	WOOD	$\frac{1}{4}$ " $\varnothing$ - TAPCON (Fy = 100ksi & Fu = 125ksi min.)	1.50	1.50
B		$\frac{1}{4}$ " $\varnothing$ - ULTRACON (Fy = 148ksi & Fu = 164ksi min.)	1.50	1.50
C	CONCRETE	$\frac{1}{4}$ " $\varnothing$ - TAPCON (Fy = 100ksi & Fu = 125ksi min.)	1.75	2.50
D		$\frac{1}{4}$ " $\varnothing$ - ULTRACON (Fy = 148ksi & Fu = 164ksi min.)	1.75	2.50
E	GROUTED CMU	$\frac{1}{4}$ " $\varnothing$ - ULTRACON (Fy = 148ksi & Fu = 164ksi min.)	1.25	2.50
F	METAL	$\frac{1}{4}$ " $\varnothing$ Gr. 5 Metal Screw	Min. 3 Threads pass substrate	1.00
NOTE :				
- MAXIMUM SHIM GAP = $\frac{3}{8}$ "				
- MIN. SPECIFIC GRAVITY OF WOOD = 0.55				
- MIN. CONCRETE COMPRESSIVE STRENGTH = 3000psi (NORMAL WEIGHT & UNCRACKED)				
- MIN. COMPRESSIVE STRENGTH OF GROUTED CONCRETE MASONRY = 2000PSI (MEDIUM WEIGHT & CONFORM TO ASTM C90)				
- METAL SUBSTRATE SHALL BE STEEL (FY=36KSI MIN. & 12GA. THICK) OR ALUMINUM (6063-T5 MIN. & 0.10" THICK)				

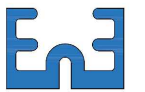
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351E Series Alum Outswing Doors

HVHZ - LMI LEVEL 'E'

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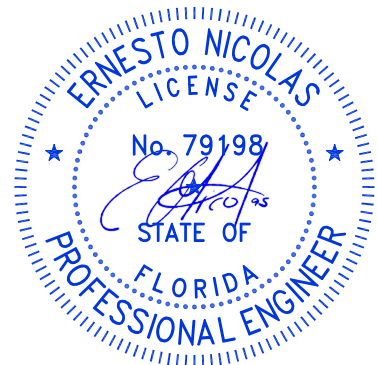


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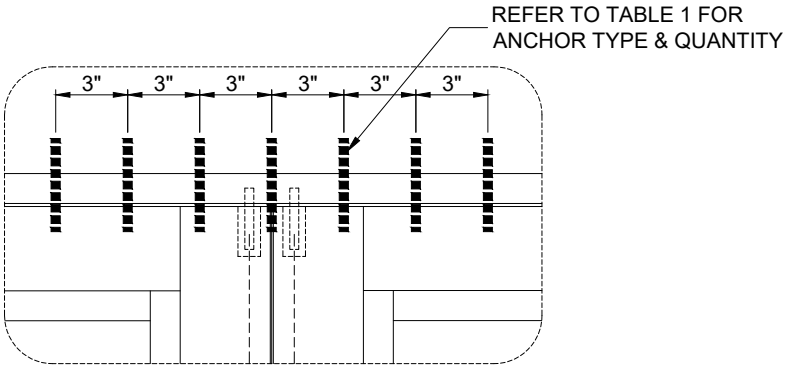
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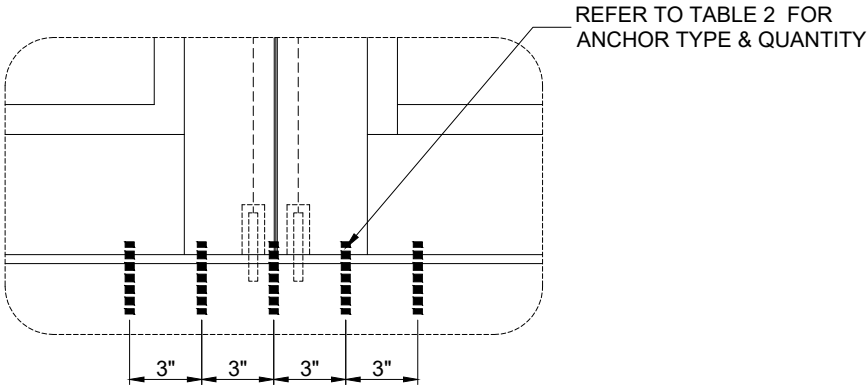
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TABLE 1 (≤ 85psf DP)			
NO. OF ANCHORS AT MTG. STILE TOP			
ANCHOR TYPE	DOOR OPENING WIDTH		
	≤ 72"	≤ 84"	≤ 96"
A	6	7	8
B	4	5	6
C	6	7	8
D	4	5	6
E	5	6	7
F	5	6	7



DET. 1 - MTG. STILE TOP ANCHOR

TABLE 2 (≤ 85psf DP)			
NO. OF ANCHORS AT MTG. STILE BOT.			
ANCHOR TYPE	DOOR OPENING WIDTH		
	≤ 72"	≤ 84"	≤ 96"
C	6	7	8
D	4	5	6
E	5	6	7



DET. 2 - MTG. STILE BOTTOM ANCHOR

TABLE 3 (≤ 85psf DP)			
JAMB ANCHOR SPACING (in.)			
ANCHOR TYPE	DOOR PANEL WIDTH		
	≤ 36"	≤ 42"	≤ 48"
A	16	13	12
B	21	19	17
C	16	13	12
D	21	20	17
E	19	16	14
F	18	16	14

ANCHOR SCHEDULE



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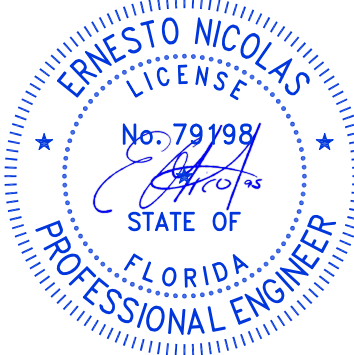
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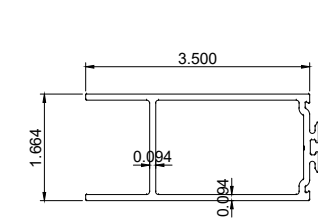
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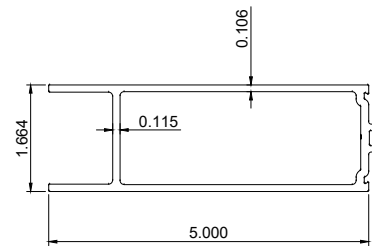
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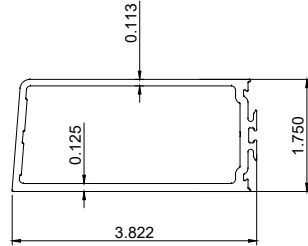
SERIES 351 DOOR PARTS TABLE



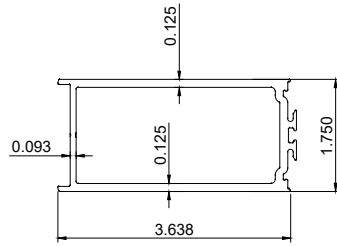
A1 TOP RAIL
26015 6063-T6



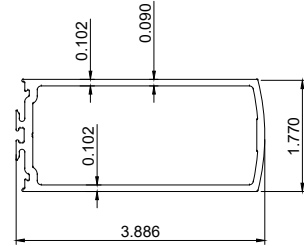
A2 5" BOTTOM RAIL
26364 6063-T6



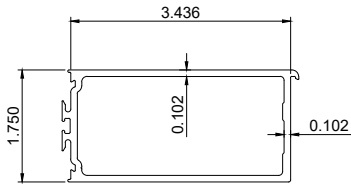
A3 BEVEL HINGE STILE
26366 6063-T6



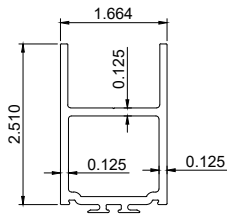
A4 MEETING STILE-ACTIVE
26378 6063-T6



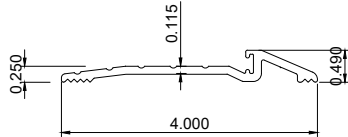
A5 MEETING STILE-INACTIVE
26371 6063-T6



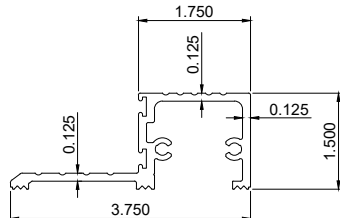
A6 HINGE STILE FOR C.G.H.
26367 6063-T6



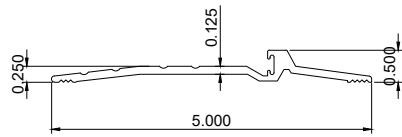
A7 MID-RAIL
26014 6063-T6



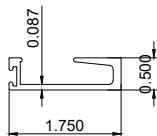
A8 4" BUMPER THRESHOLD
1042 6063-T6



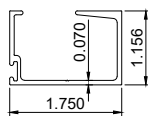
A9 HIGH-RISE THRESHOLD
40296 6063-T6



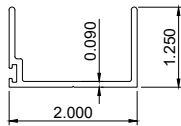
A10 5" BUMPER THRESHOLD (OPTION)
2005A 6063-T6



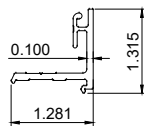
A11 DOOR STOP
10029 6063-T6



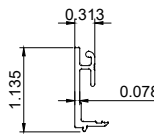
A12 DOOR STOP (OPTION)
44013 6063-T6



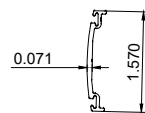
A13 O/A DOOR HEADER STOP
DF102 6063-T6



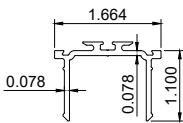
A14 INTERIOR DOOR ADAPTOR
26031 6063-T6



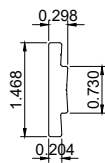
A15 EXTERIOR DOOR ADAPTOR
26032 6063-T6



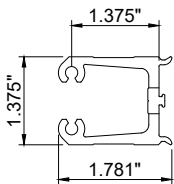
A16 ASTRAGAL PLATE
26375 6063-T6



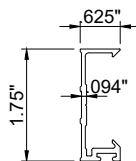
A17 MID-RAIL ADAPTOR
26013 6063-T6



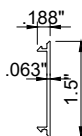
A18 IMPACT DOOR BEARING PLATE
26203 6063-T6



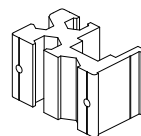
A53 DOOR SHEAR CLIP
26069 6063-T6



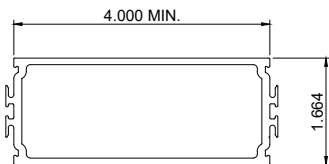
A20 OPEN BACK DOOR STOP
10030 6063-T6



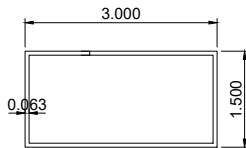
A21 DOOR STOP COVER



A22 LOCK BLOCK GUIDE
ST351X-LG 6063-T6



A23 MID-RAIL
26014 6063-T6



A24 MTG. STILE REINF.
AE5793 6063-T6



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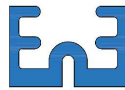
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Peachtree City, GA 30269
p. 800-432-8132

PRODUCT:

**351E Series
Alum Outswing
Doors**
HVHZ - LMI LEVEL 'E'

REVN	DATE/REMARKS

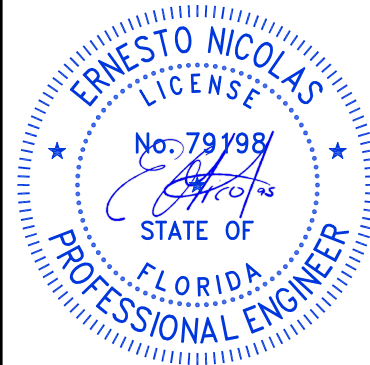
ENGINEER:



En3 Engineering & Consultancy

950 SW 135th Way Sunrise,
FL 33325 P. 786 474 3876
Email: en3.engconsul@gmail.com

STAMP:



FLORIDA PRODUCT APPROVAL:

FL47727

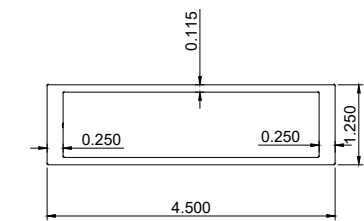
DATE: AUG. 5, 2025

Drwn: Bobi	CHK: ESN
Drwg. No: 25FL-104	SCALE: N.T.S.

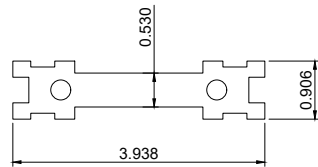
SHEET NO.:

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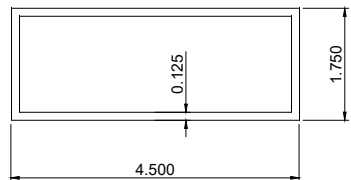
SERIES 351 DOOR PARTS TABLE (FRAME)



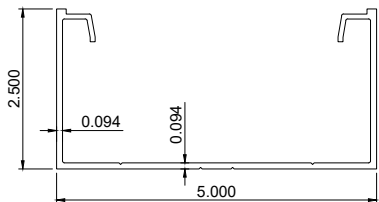
F1 DOOR HEADER/ JAMB
3000 6063-T6



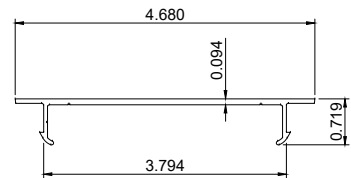
F2 3000 SHEAR BLOCK
3004 CLIP 6063-T6



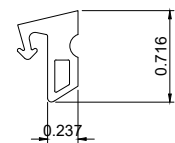
F3 DOOR HEAD / SIDE JAMB OPTION
10220 6063-T6



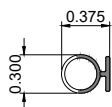
F4 DOOR FRAME JAMB (OPTION)
DF500-1 6063-T6



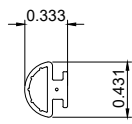
F5 FLAT FILLER
SW700-18 6063-T6



B1 DOOR GLAZING GASKET
RG15 EPDM

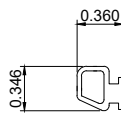


DUAL DUROMETER BULB GASKET

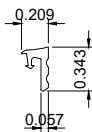


EPDM (OPTION)

B2 DOOR STOP GASKET
RG5



B3 BUMPER THRESHOLD GASKET
H74 EPDM



B4 DOOR GLAZING GASKET
RG-21 EPDM



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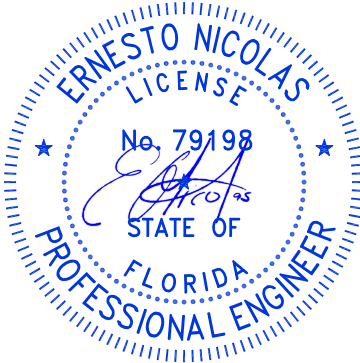
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SERIES 351 BILL OF MATERIALS

ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER
A 1	26015	3 ½" TOP RAIL	ALUM. 6063-T6	TRULITE
A 2	26364	5" BOTTOM RAIL	ALUM. 6063-T6	TRULITE
A 3	26366	BEVEL HINGE STILE	ALUM. 6063-T6	TRULITE
A 4	26378	MEETING STILE - ACTIVE	ALUM. 6063-T6	TRULITE
A 5	26371	MEETING STILE - INACTIVE	ALUM. 6063-T6	TRULITE
A 6	26367	HINGE STILE FOR C.G.H.	ALUM. 6063-T6	TRULITE
A 7	26014	MID-RAIL	ALUM. 6063-T6	TRULITE
A 8	1042	4" BUMPER THRESHOLD	ALUM. 6063-T6	TRULITE
A 9	40296	HIGH-RISE THRESHOLD	ALUM. 6063-T6	TRULITE
A 10	2005A	5" BUMPER THRESHOLD	ALUM. 6063-T6	TRULITE
A 11	10029	DOOR STOP	ALUM. 6063-T6	TRULITE
A 12	44013	DOOR STOP	ALUM. 6063-T6	TRULITE
A 13	DF102	O/A DOOR HEADER STOP	ALUM. 6063-T6	TRULITE
A 14	26031	INTERIOR DOOR ADAPTOR	ALUM. 6063-T6	TRULITE
A 15	26032	EXTERIOR DOOR ADAPTOR	ALUM. 6063-T6	TRULITE
A 16	26375	ASTRAGAL PLATE	ALUM. 6063-T6	TRULITE
A 17	26013	MID-RAIL ADAPTOR	ALUM. 6063-T6	TRULITE
A 18	26203	IMPACT DOOR BEARING PLATE	ALUM. 6063-T6	TRULITE
A 19	26069	DOOR SHEAR CLIP	ALUM. 6063-T6	TRULITE
A 20	10030	OPEN BACK DOOR STOP	ALUM. 6063-T6	TRULITE
A 21	3303	DOOR STOP COVER	ALUM. 6063-T6	TRULITE
A 22	ST351X-LG	LOCK BLOCK GUIDE	ALUM. 6063-T6	TRULITE
A 23	26014	MID-RAIL	ALUM. 6063-T6	TRULITE
A 24	A5793	MTG. STILE REINFORCEMENT	ALUM. 6063-T6	TRULITE
F 1	3000	DOOR HEADER / JAMB	ALUM. 6063-T6	TRULITE
F 2	3004C	3000 SYSTEM SHEAR BLOCK	ALUM. 6063-T6	TRULITE
F 3	10220	DOOR HEADER / JAMB	ALUM. 6063-T6	TRULITE
F 4	DF500-1	DOOR FRAME JAMB	ALUM. 6063-T6	TRULITE
F 5	SW700-18	FLAT FILLER	ALUM. 6063-T6	TRULITE

ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER
B 1	RG-15	DOOR GLAZING GASKET	EPDM (DUR. 70 SHORE A)	TRULITE
B 2	RG-5	DOOR STOP BULB GASKET	DUAL DUROMETER	TRULITE
	RG-5 (OPTION)	DOOR STOP GASKET	EPDM (DUR. 65 SHORE A)	TRULITE
B 3	H74	BUMPER THRESHOLD GASKET	EPDM (DUR. 70 SHORE A)	TRULITE
B 4	RG-21	DOOR GLAZING GASKET	EPDM (DUR. 70 SHORE A)	TRULITE

ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER
C 1	23301	RUBBER GROMMET AT ASTRAGAL	NITRILE	RUBBERGROMMET.COM
C 2	DOWSIL995	STRUCTURAL SEALANT	STRUCTURAL SILICONE	DOW
C 3	DOWSIL983	STRUCTURAL SEALANT	STRUCTURAL SILICONE	DOW
C 4	V2108	¼" X ¾" GLAZING TAPE	POLYURETHANE FOAM	ST. GOBAIN
C 5	24110	BRUSH PILE	YARN	AMESBURY GROUP
C 6	25047	DOOR BOTTOM SWEEP ASSEMBLY	ALUM./RUBBER	HAGER
C 7	23501	DOOR STOP CLIP, 4" MAX. @ ENDS & 12" O.C. MAX.	STEEL	EVANS MANUFACT.
C 8	SPACER2	PVC SETTING BLOCK FOR ⅝" GLASS	PVC	M & M PLASTIC

ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER
D 1	23163	#12-24" x ¾" PFH-23	ZINC COATED STEEL	ALLOY FASTENER
D 2	23097	#10-24" x ½" PFH	ZINC COATED STEEL	ALLOY FASTENER
D 3	23302	#6x¾" UC-PFH TEK	ZINC COATED STEEL	ALLOY FASTENER
D 4	23233	1/4-20 x1 ½" PFH (Gr. 5)	ZINC COATED STEEL	ALLOY FASTENER
D 5	23089	#10-24 x ⅝" PFH	ZINC COATED STEEL	ALLOY FASTENER
D 6	23079	#10-24 x ¾" PFH	ZINC COATED STEEL	ALLOY FASTENER
D 7	23177	#14 x 1" PFH	STAINLESS STEEL	ALLOY FASTENER



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