

TRULITE GLASS & ALUMINUM SOLUTIONS

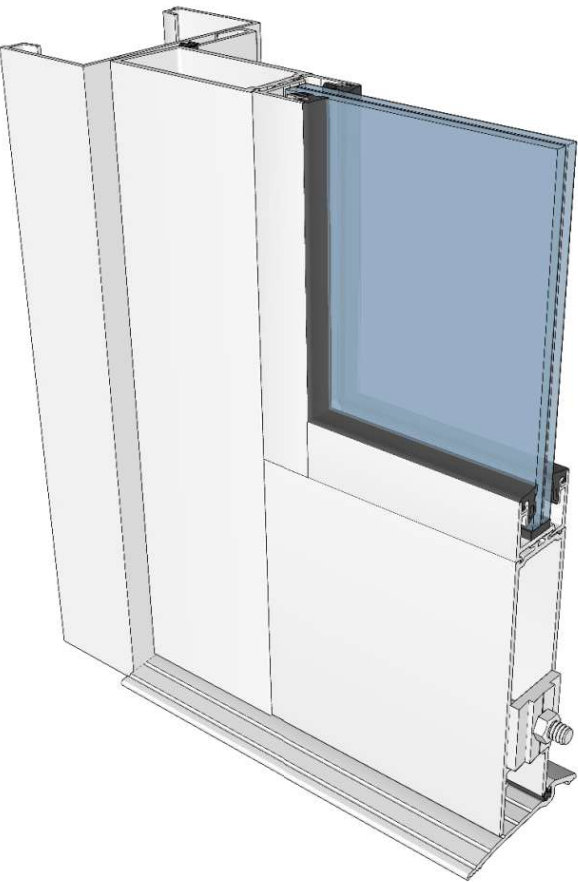
353F SAFETYLINE™ SERIES FORCE ENTRY/IMPACT RATED ENTRANCE DOOR – LMI (HVHZ)

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 WERE TESTED TO COMPLY WITH ASTM F3561-23: STANDARD TEST METHOD FOR FORCED-ENTRY-RESISTANCE OF FENESTRATION SYSTEMS AFTER SIMULATED ACTIVE SHOOTER ATTACK

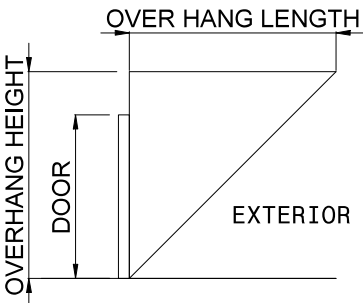
2. CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.
3. THE MAIN STRUCTURE WHERE THIS DOOR SYSTEM WILL BE INSTALLED MUST BE CAPABLE OF SUPPORTING ALL THE LOADS IMPOSED BY THIS DOOR SYSTEM.
4. ANCHORS SHALL BE AS LISTED. SPACED AS SHOWN ON DETAILS. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM 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.
5. INSTALLATION ANCHORS MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
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 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.
10. 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
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
D.O.W. - DOOR OPENING WIDTH
D.O.H. - DOOR OPENING HEIGHT
DP - DESIGN PRESSURE
N.T.S. - NOT TO SCALE
FPA - FLORIDA PRODUCT APPROVAL
FBC - FLORIDA BUILDING CODE
SF - STOREFRONT
MAX. - MAXIMUM
F.E.R. - FORCED ENTRY RESISTANCE
F.T. - FULLY TEMPERED GLASS
H.S. - HEAT STRENGTHENED GLASS

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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PRODUCT:

**SAFETYLINE™ SERIES
ENTRANCE DOOR**

REVN.	DATE/REMARKS

ENGINEER:

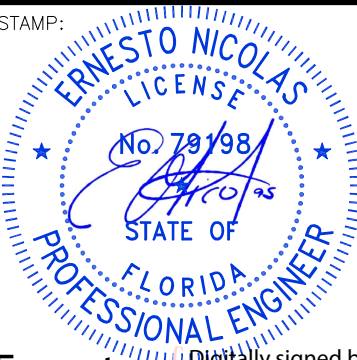


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STAMP:



Ernesto Nicolas
Date: 2024.12.12
22:19:57 +08'00'

FLORIDA PRODUCT APPROVAL:

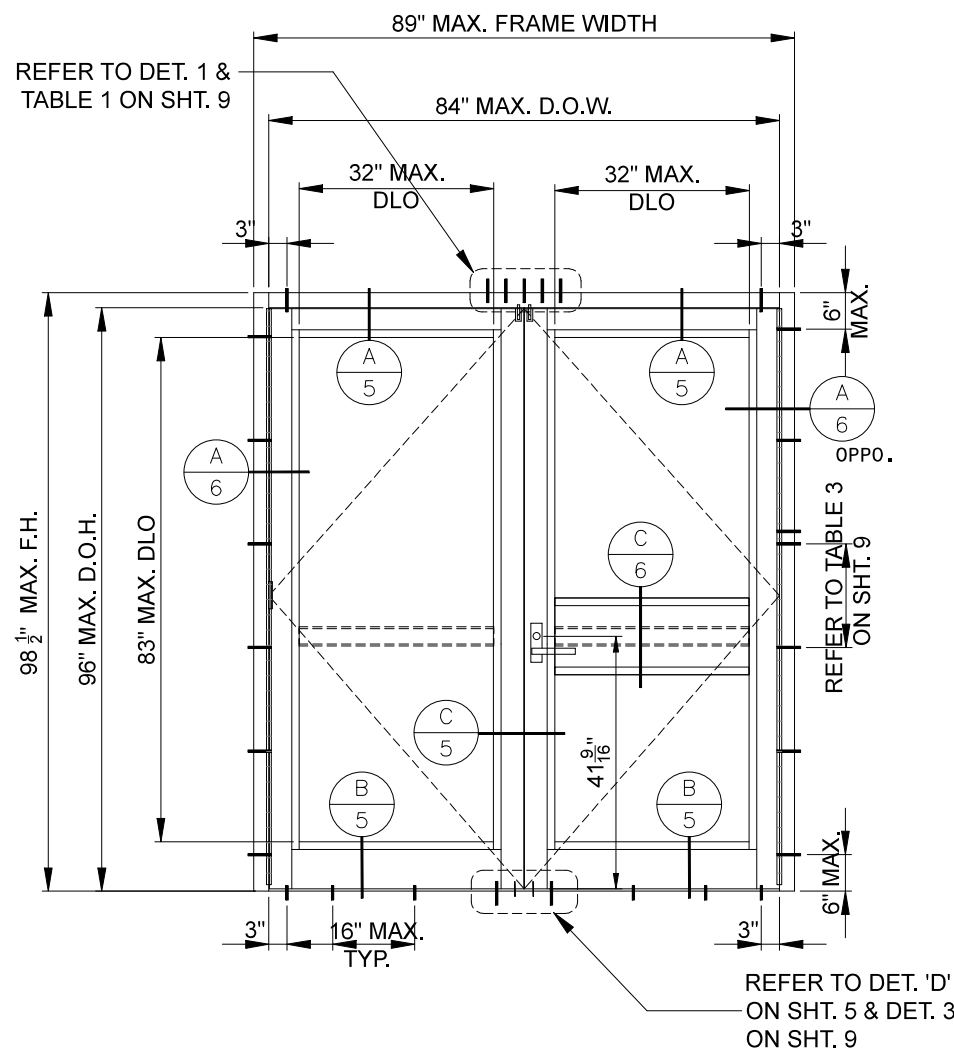
FL47083

DATE: DEC. 12, 2024

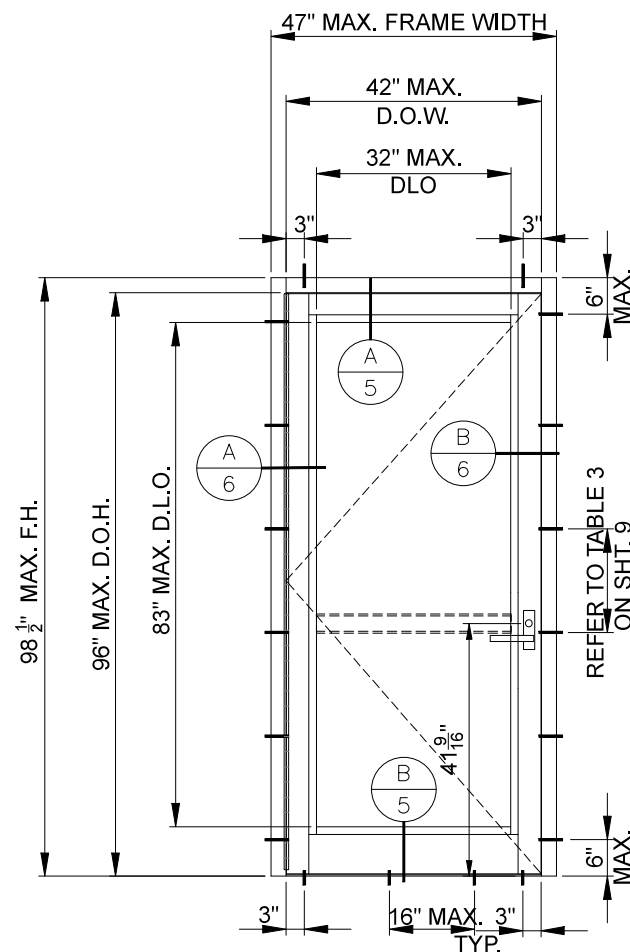
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Drwg. No: 24FL-105	SCALE: N.T.S.

SHEET NO.:

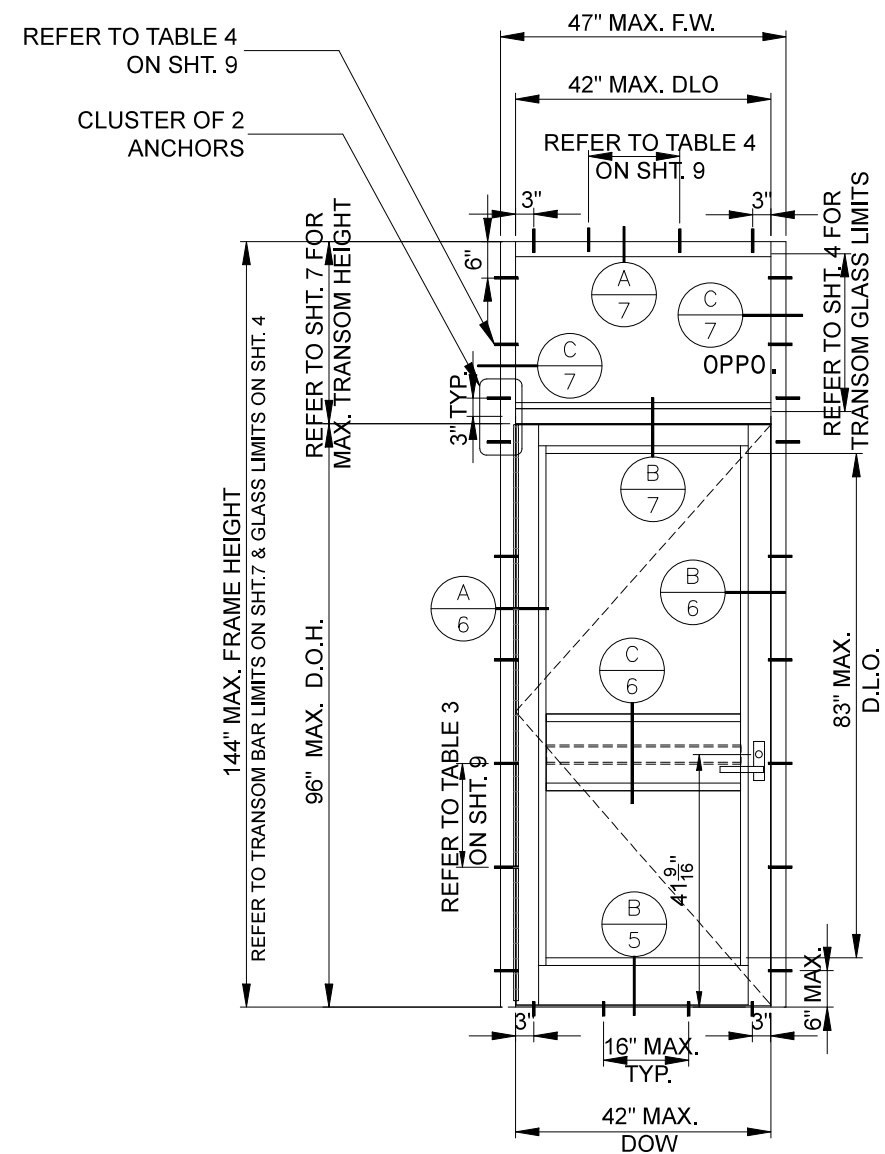
1 of 11



DOUBLE DOOR



SINGLE DOOR



SINGLE DOOR WITH TRANSOM

MAXIMUM DESIGN PRESSURE: ± 65 psf

REFER TO TABLE 4
ON SHT. 9

CLUSTER OF 2
ANCHORS

REFER TO SHT. 7 FOR
MAX. TRANSOM HEIGHT

144\" MAX. FRAME HEIGHT
REFER TO TRANSOM BAR LIMITS ON SHT.7 & GLASS LIMITS ON SHT. 4

96\" MAX. D.O.H.

REFER TO TABLE 3
ON SHT. 9

REFER TO SHT. 4 FOR
TRANSOM GLASS LIMITS

NOTE:
THIS PRODUCT WAS TESTED TO COMPLY WITH ASTM
F3561-23 AND IS RATED UP TO LEVEL 8 FORCE-ENTRY
RATING. **CONSULT TRULITE FOR FURTHER
INFORMATION AND GUIDANCE FOR COMPLIANCE.**

GLASS INTERLAYER & LOCK OPTIONS					
ITEM	LOCK QUALIFICATION		INTERLAYER QUALIFICATION	MAX. DESIGN PRESSURE RATING (TAS - HVHZ)	ASTM F3561 F.E.R. RATING
L1	VON DUPRIN	FER 33A / 35A	0.120" SENTRYGLAS® FOR ASTM F3561 F.E.R. (DRY GLAZED)	± 65	LEVEL 8
			0.090" SAFLEX PVB FOR FBC TAS PROTOCOL & ASTM F3561 F.E.R. (WET GLAZED)	± 65	LEVEL 5
L2	VON DUPRIN	FER 99A/ 98A	0.120" SENTRYGLAS® FOR ASTM F3561 F.E.R. (DRY GLAZED)	± 65	LEVEL 6
			0.090" SAFLEX PVB FOR FBC TAS PROTOCOL & ASTM F3561 F.E.R. (WET GLAZED)	± 65	LEVEL 5

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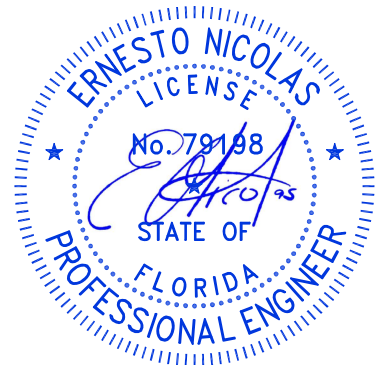
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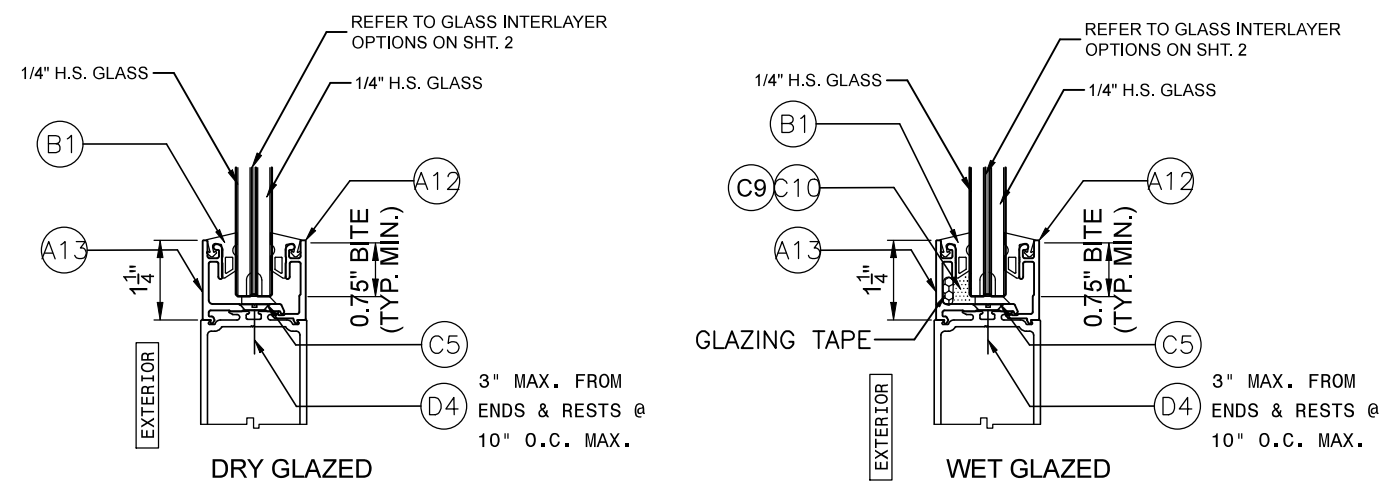
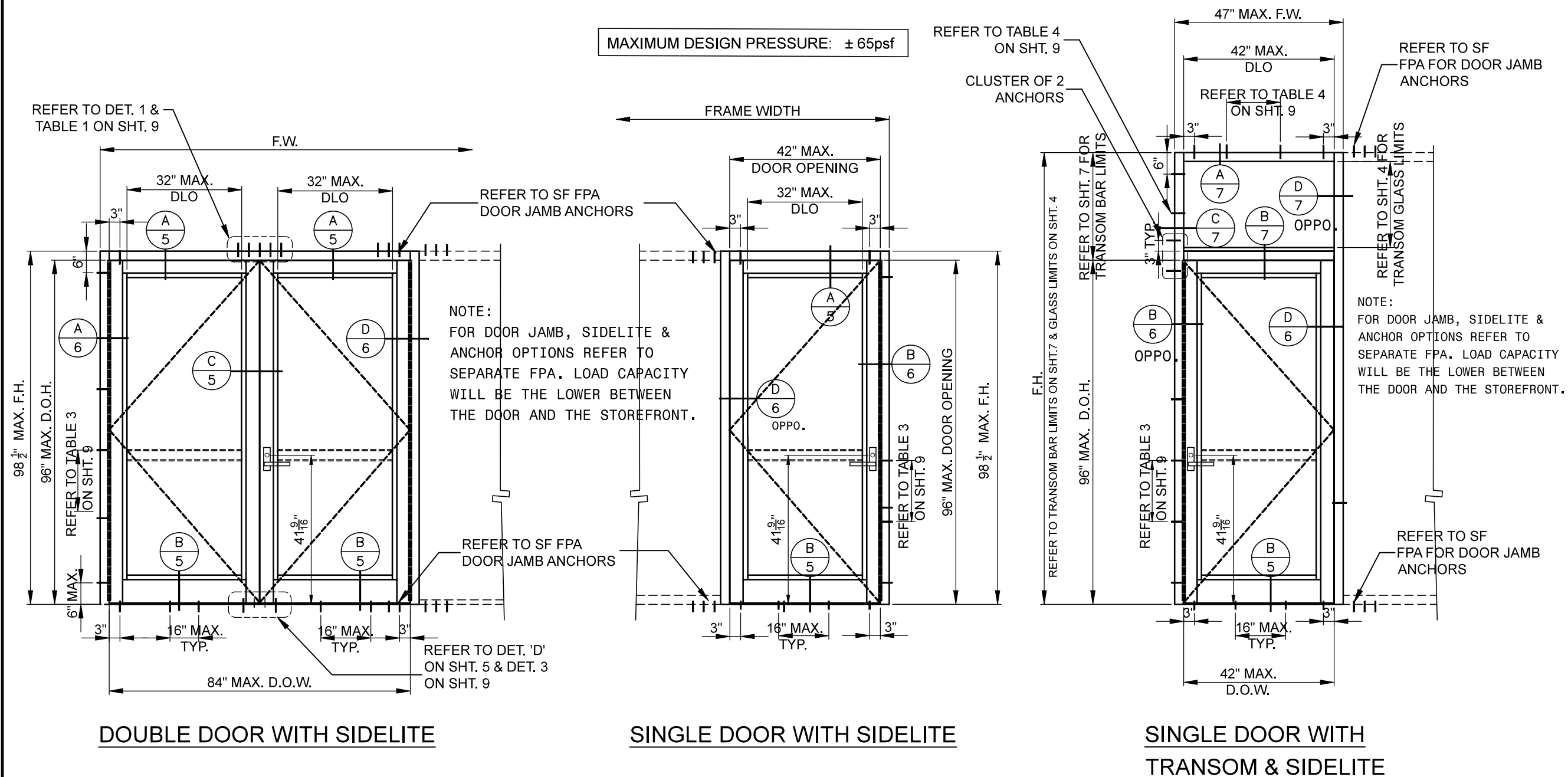
CHK: ESN

Drwg. No: 24FL-105

SCALE: N.T.S.

SHEET NO.:

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DOOR GLAZING OPTIONS

PRODUCT:

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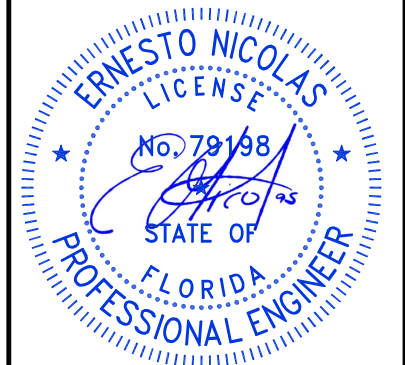
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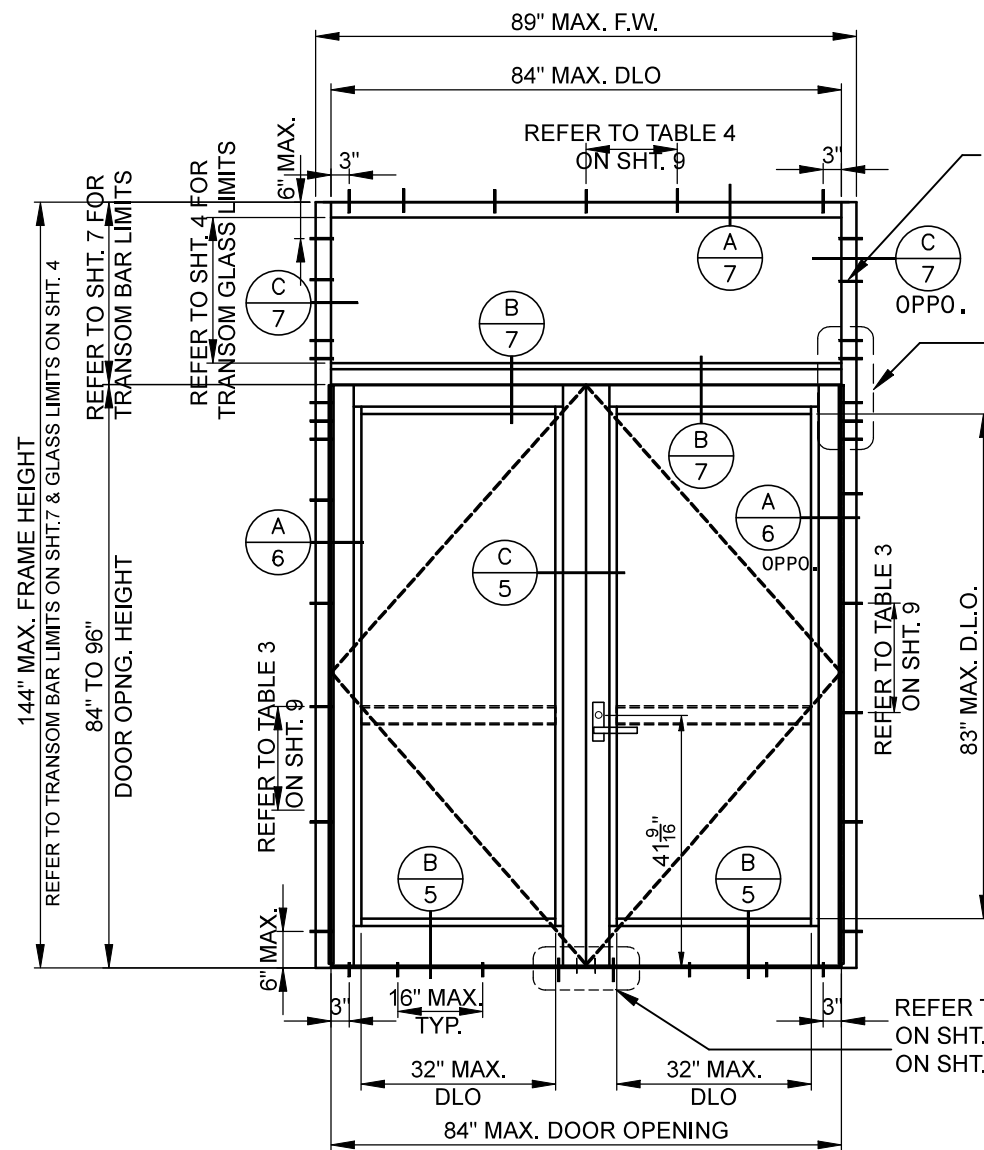
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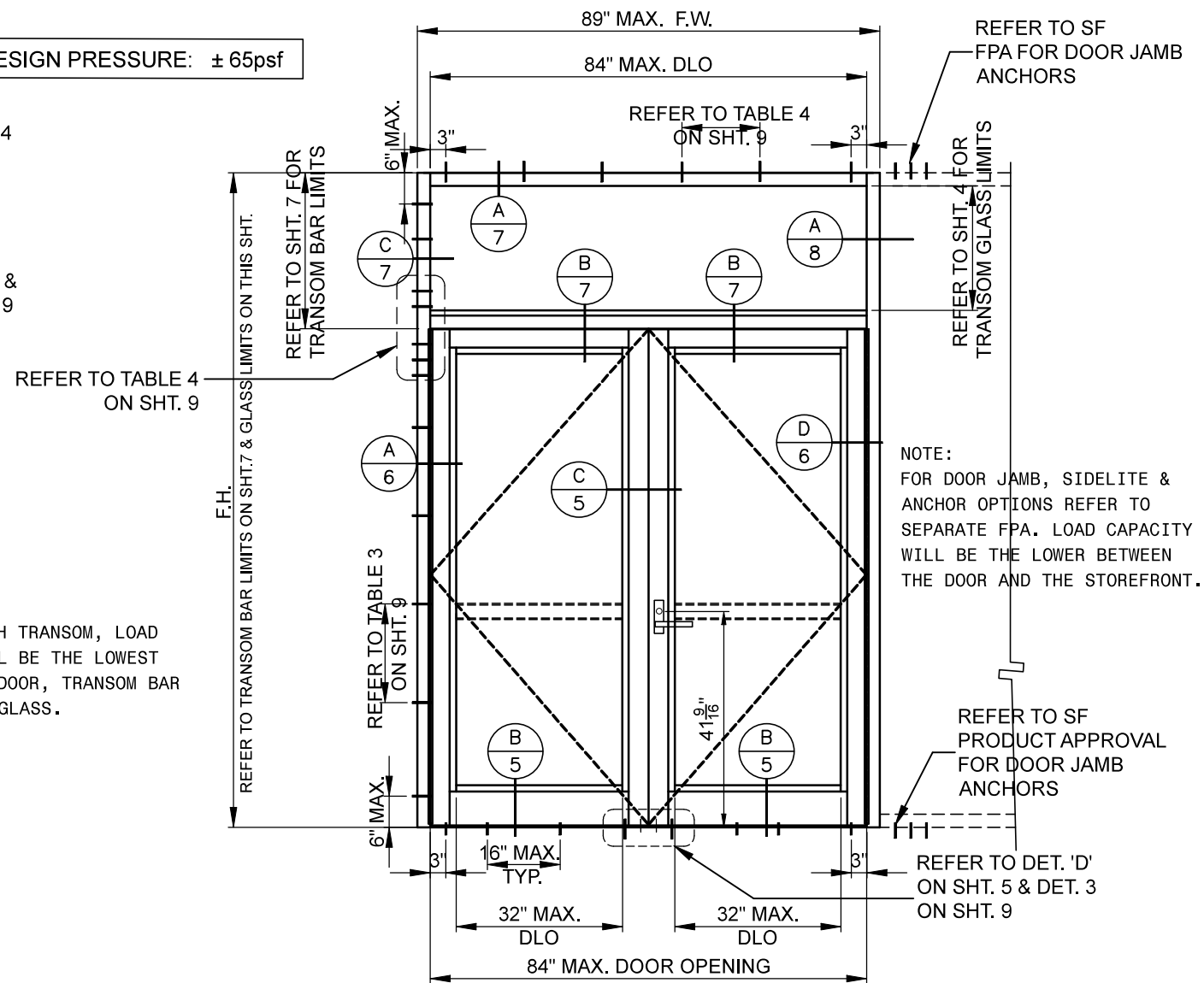
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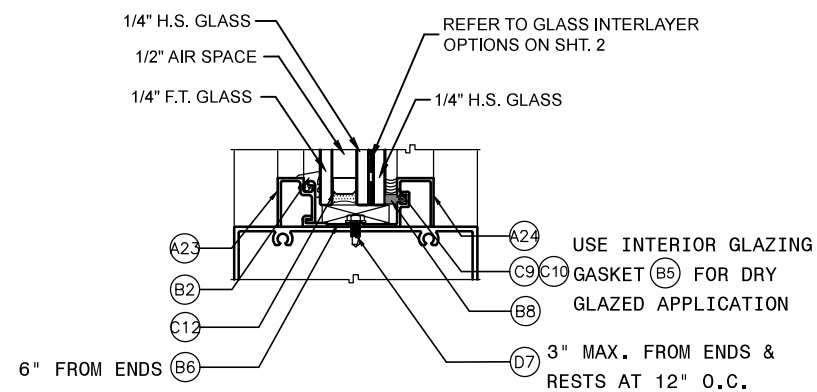
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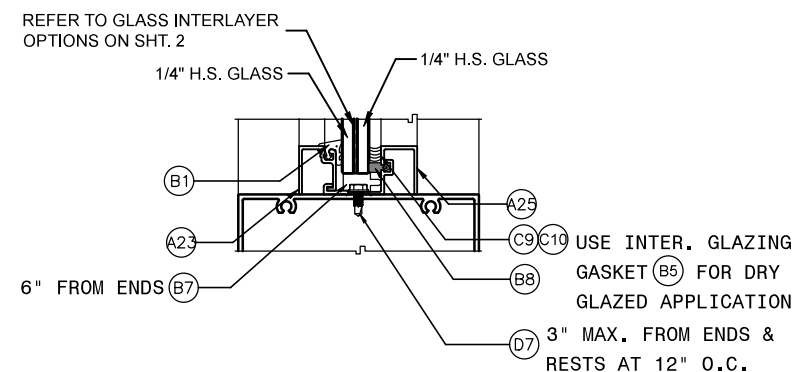
DOUBLE DOOR WITH TRANSOM



DOUBLE DOOR WITH TRANSOM & SIDELITE



INSULATED/LAMINATED
GLASS AT TRANSOM
(MAX. DLO AREA OF 30.3ft²)



LAMINATED GLASS
AT TRANSOM
(MAX. DLO AREA OF 26.5ft²)

TRANSOM GLAZING OPTIONS

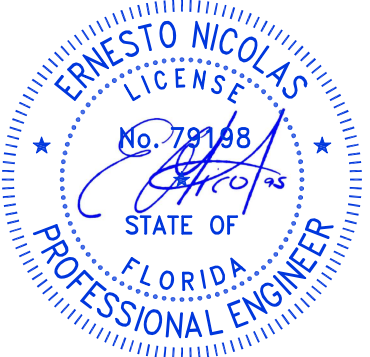
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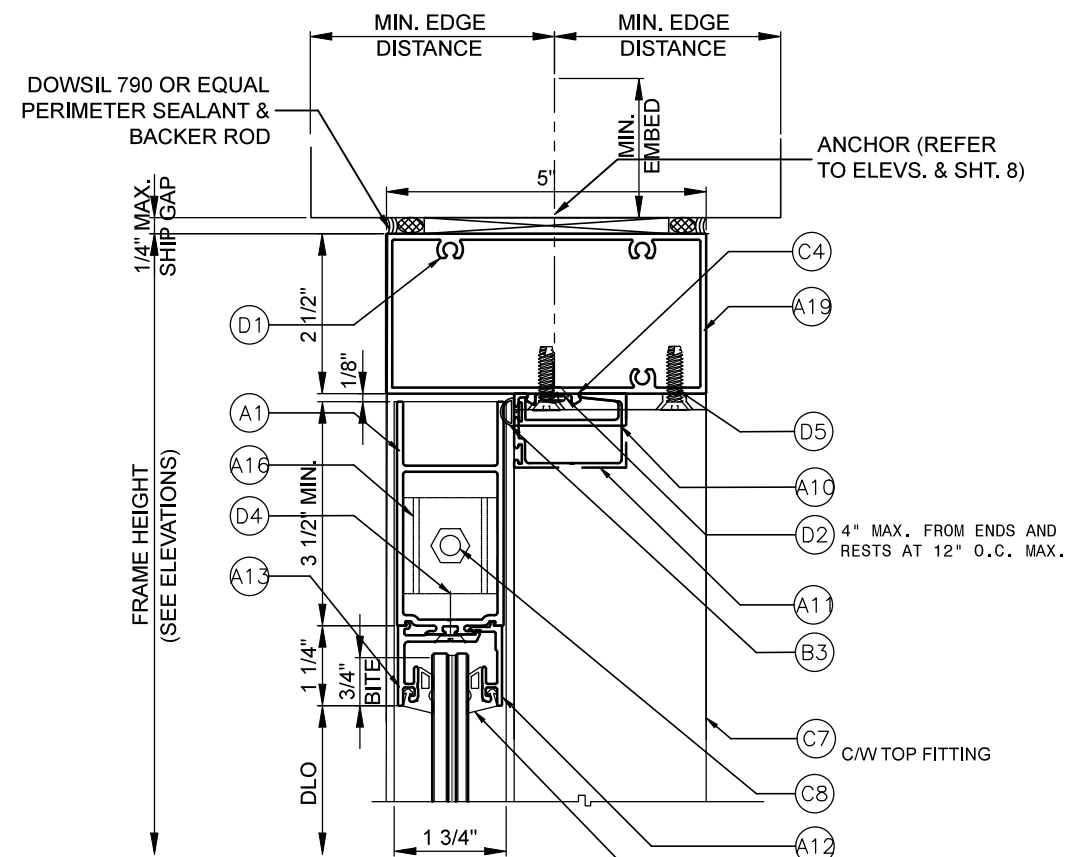
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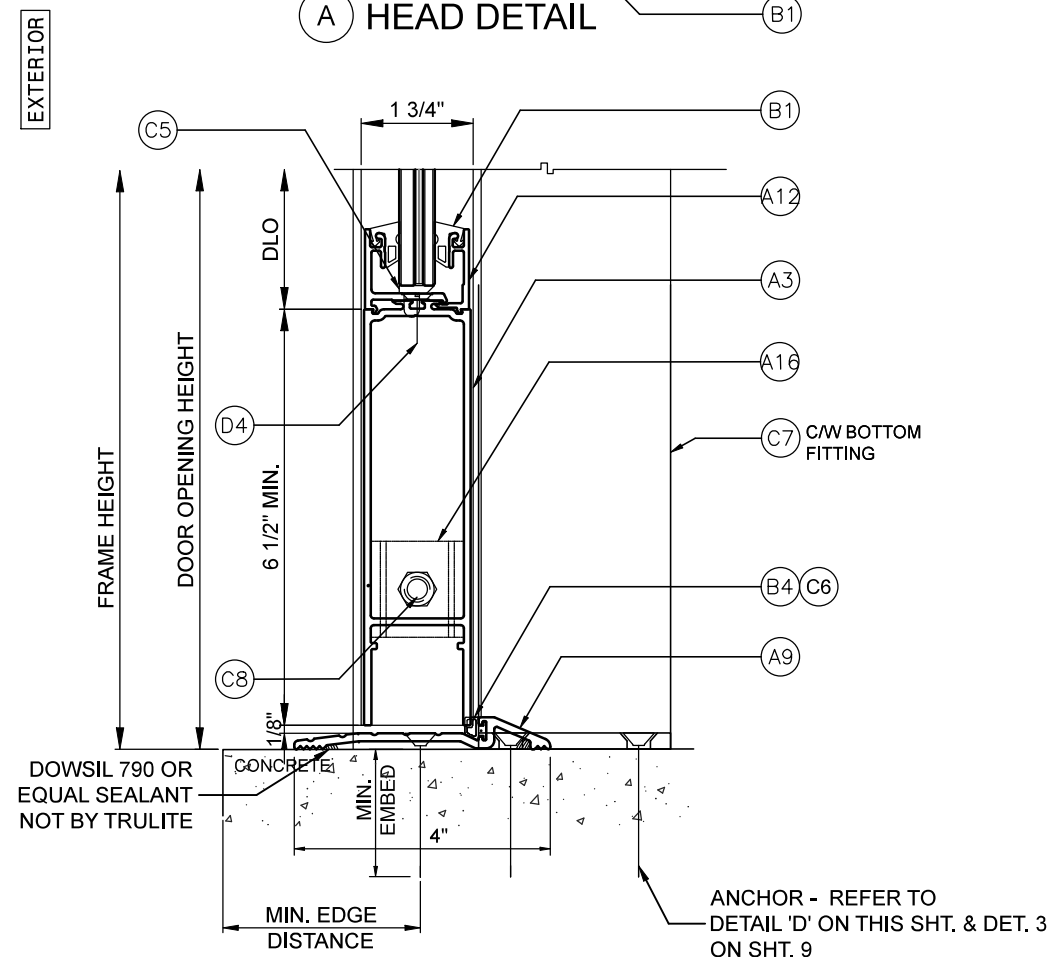
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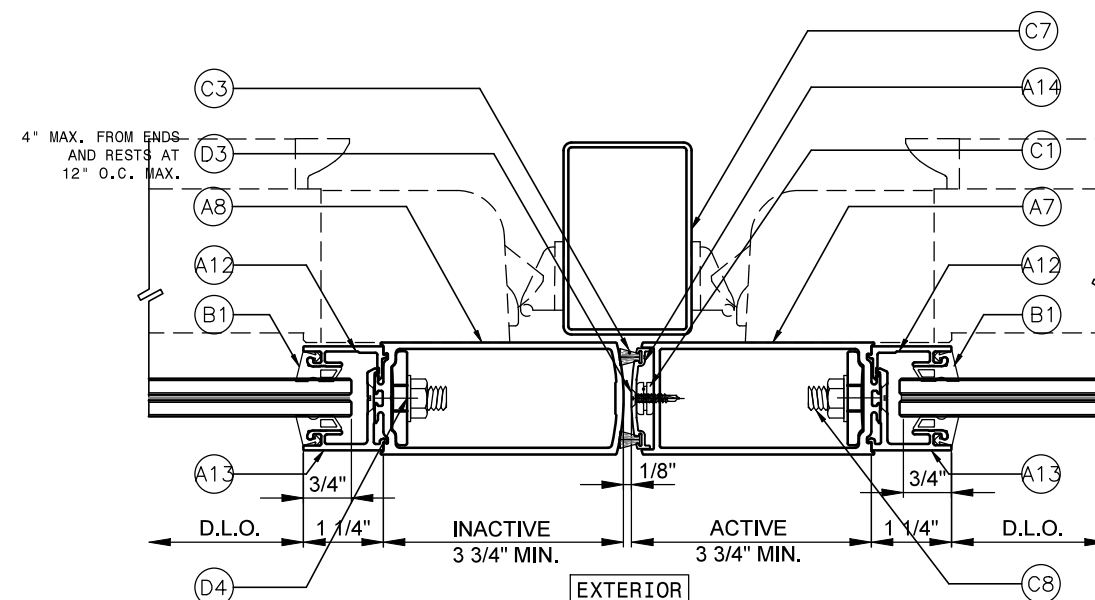
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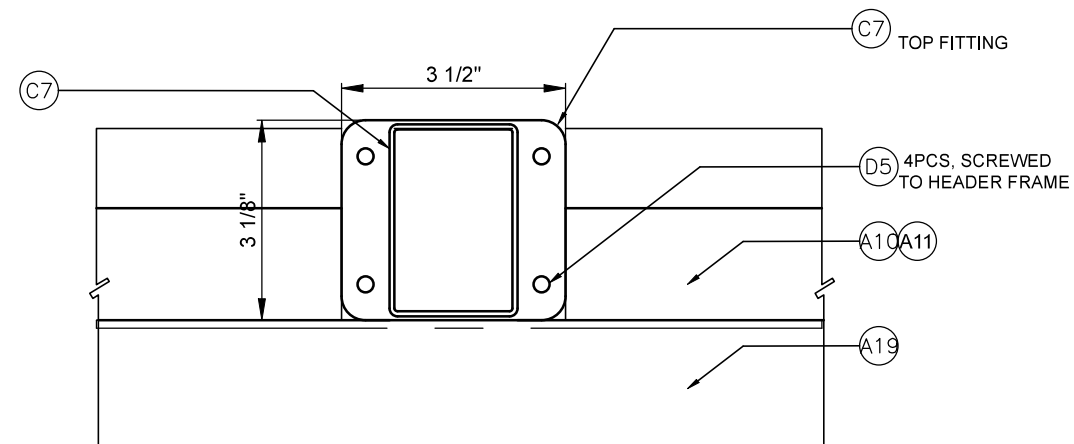
A HEAD DETAIL



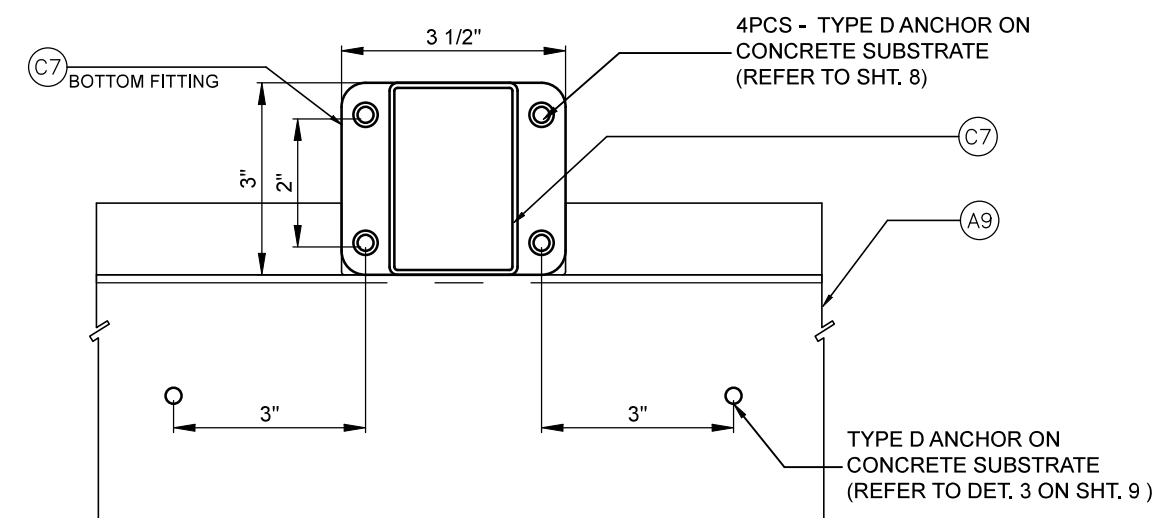
B SILL DETAIL



C MEETING STILE DETAIL



TOP ANCHOR LAYOUT



BOTTOM ANCHOR LAYOUT

D REMOVABLE MULLION ANCHOR

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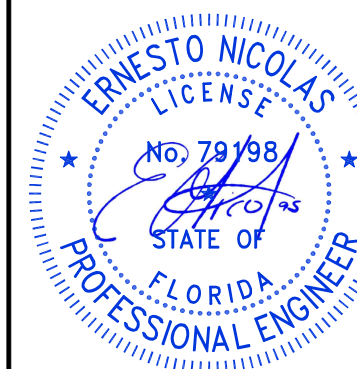
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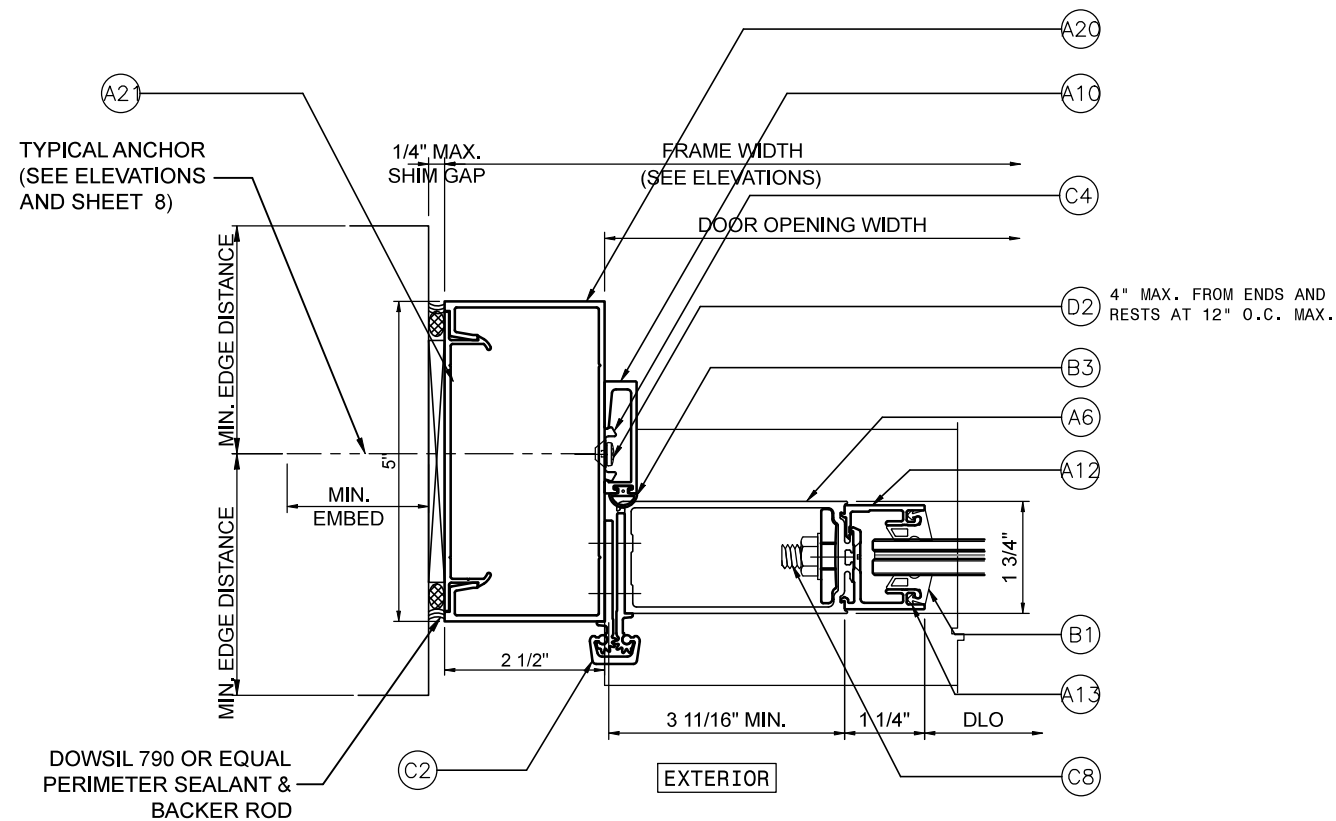
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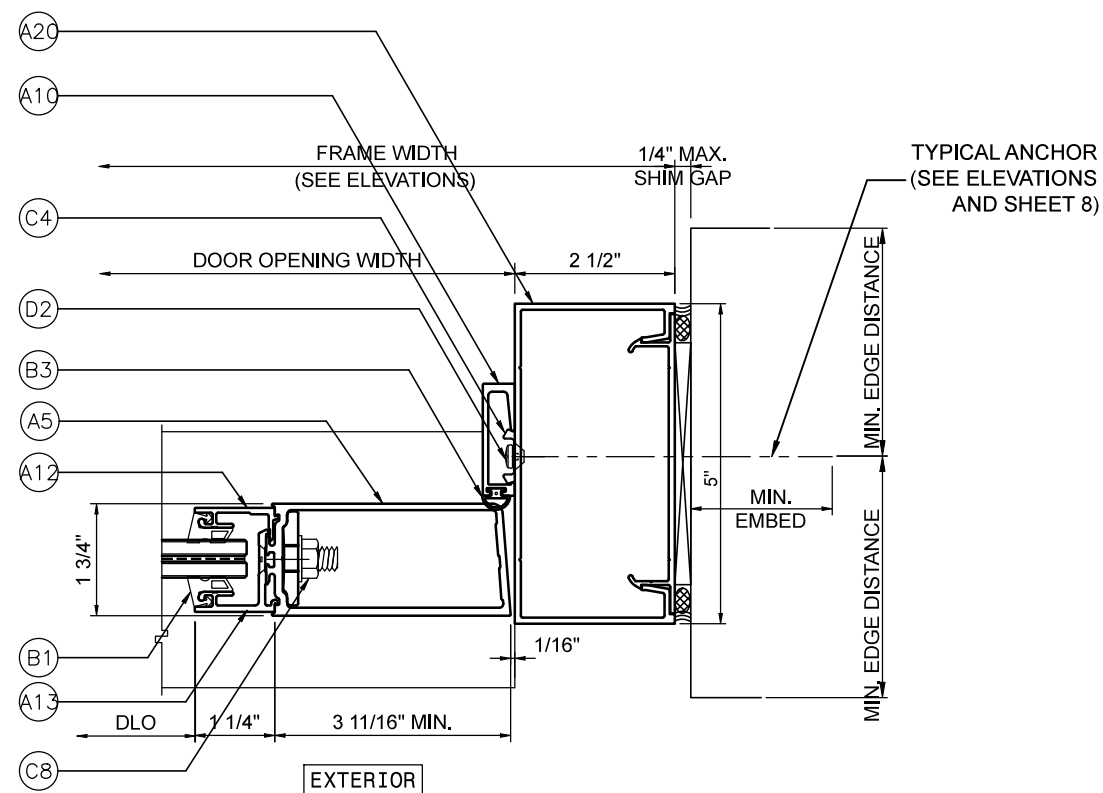
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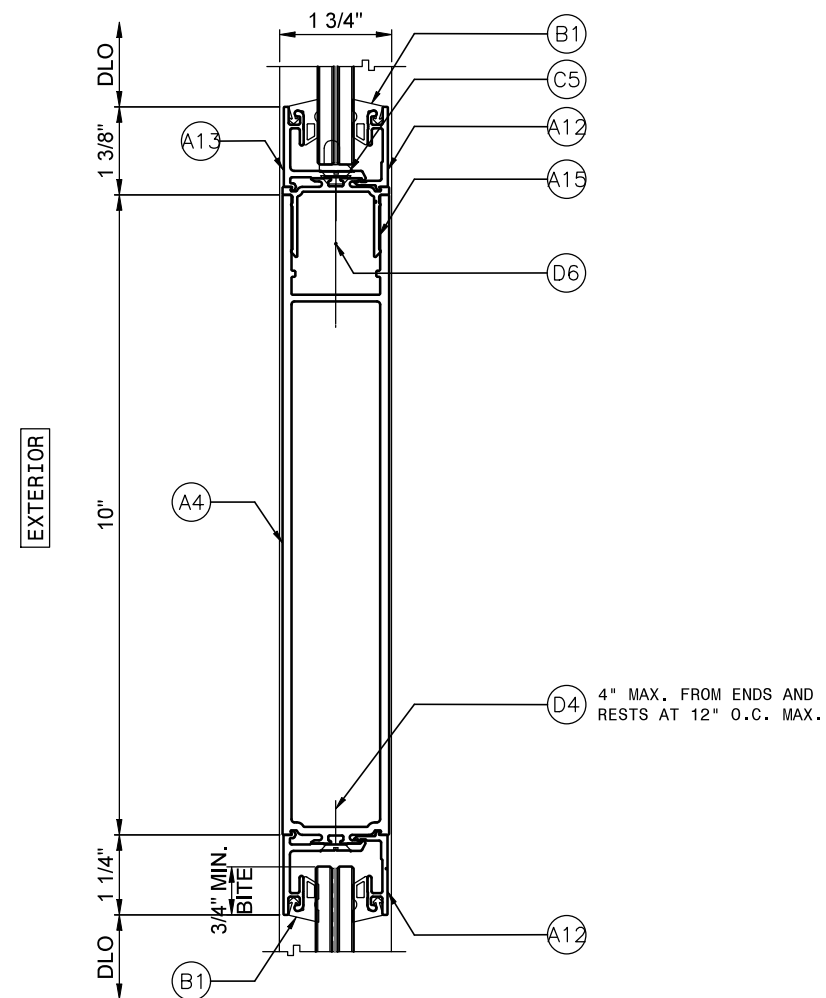
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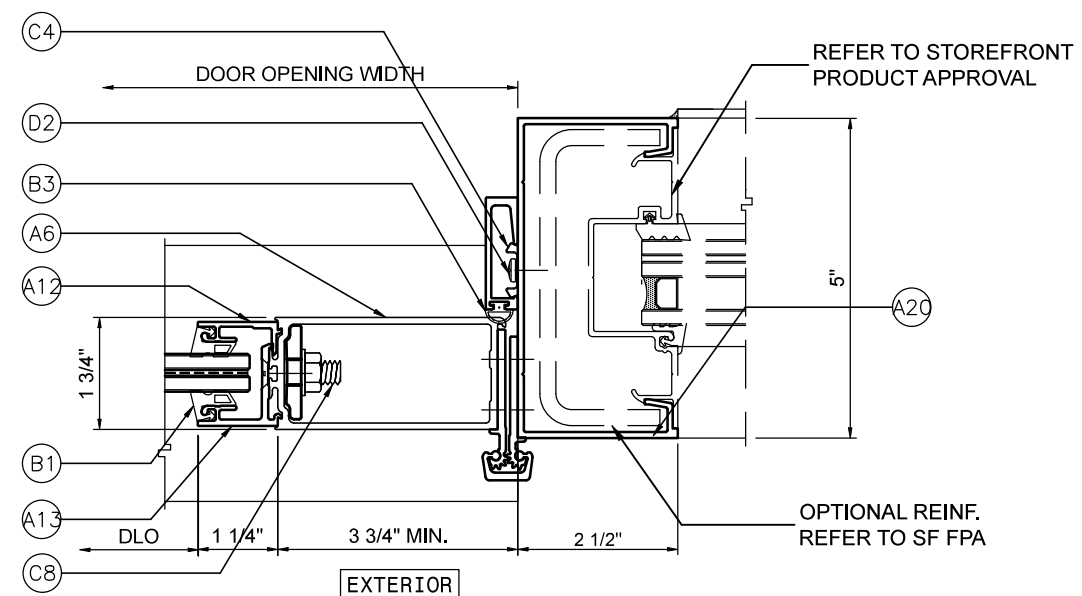
A DOOR JAMB/HINGE STILE DETAIL



B DOOR JAMB LOCK STILE DETAIL



C MID-RAIL DETAIL



D DOOR JAMB/HINGE STILE DETAIL
REFER TO TRULITE'S IMPACT STOREFRONT SYSTEM FOR JAMB CAPACITY. THE LOWER CAPACITY BETWEEN THE DOOR AND STOREFRONT SHALL GOVERN.

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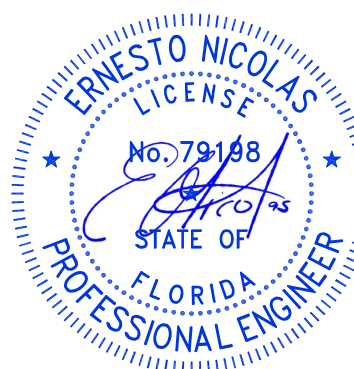
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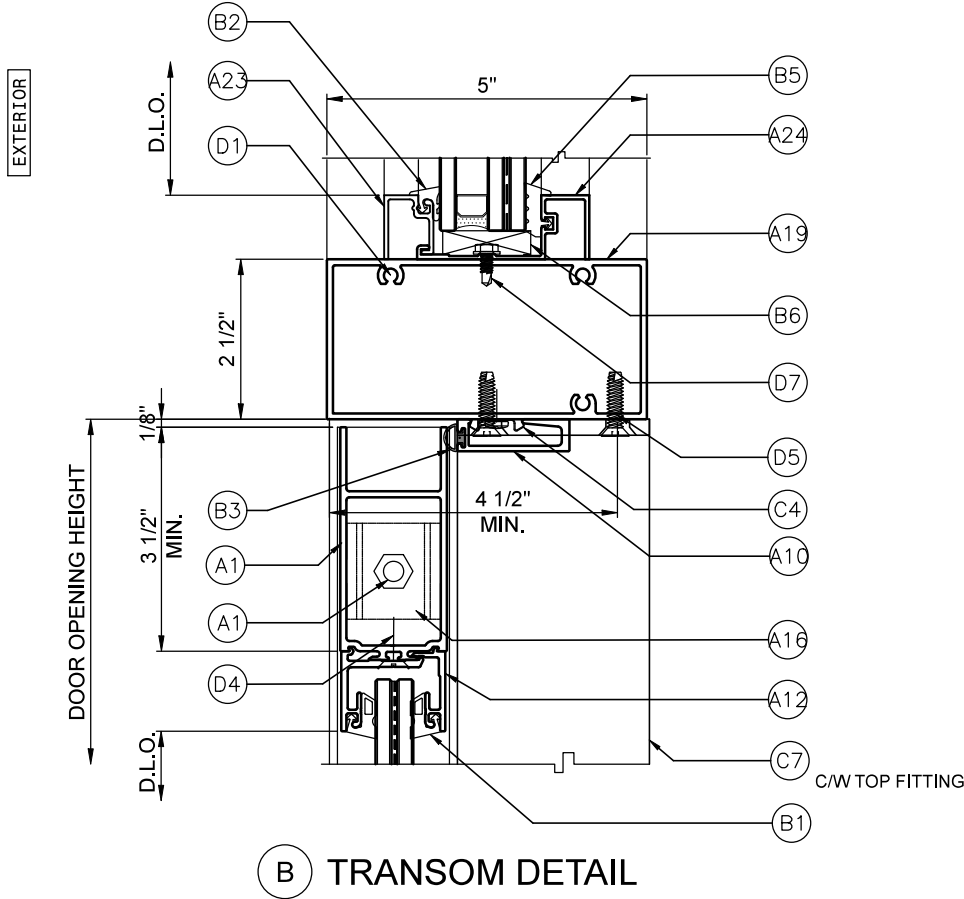
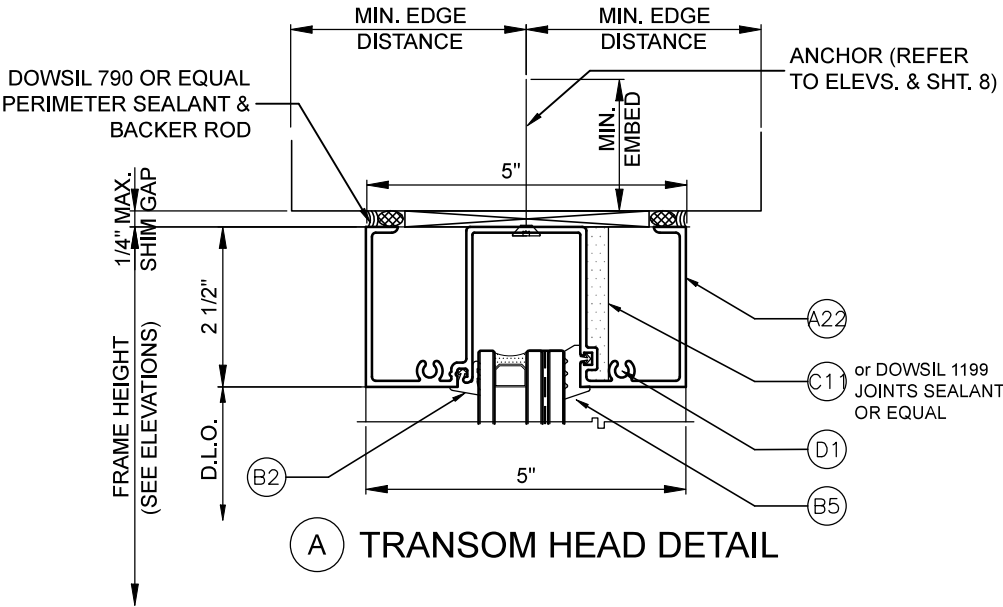
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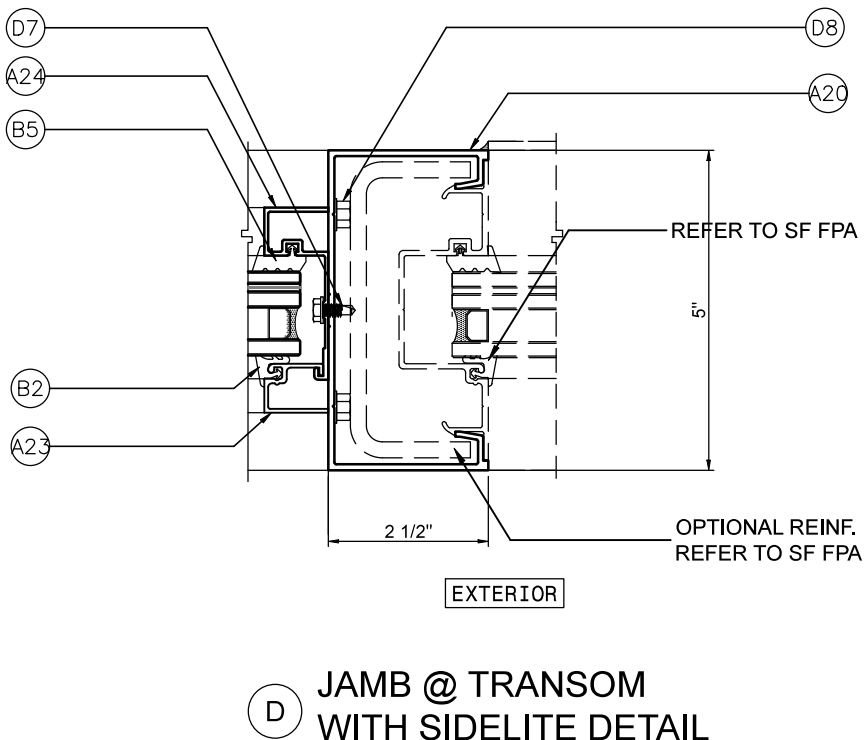
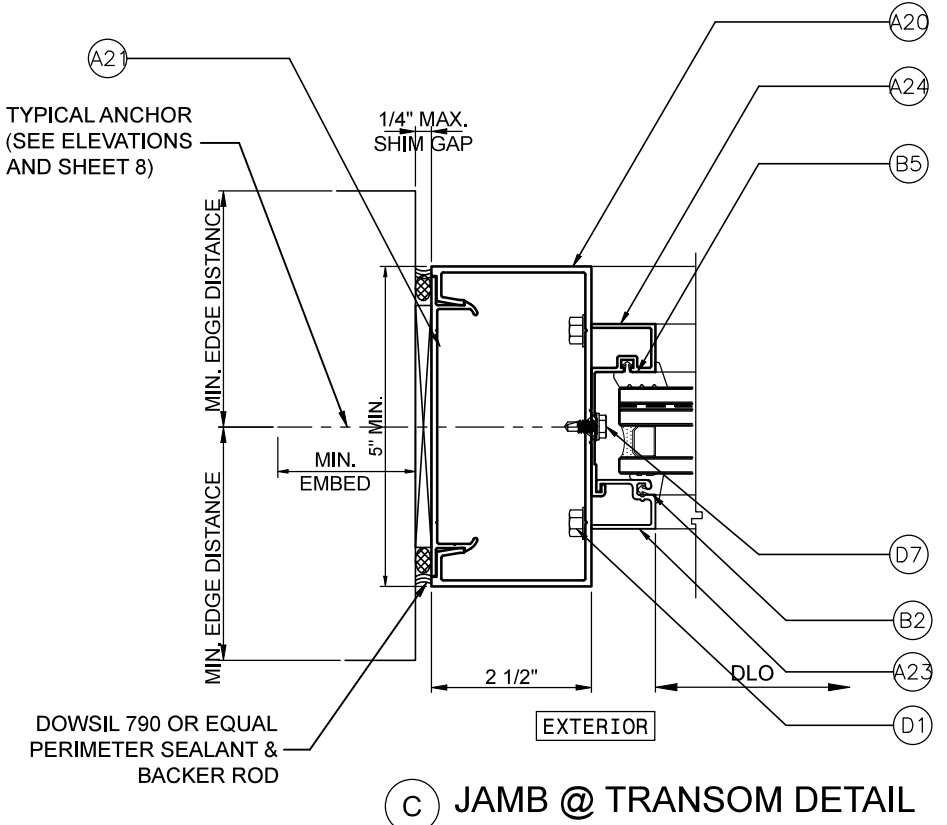
SCALE: N.T.S.

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CAPACITY OF TRANSOMS			
TRANSOM PROFILE	MAX. TRANSOM HEIGHT (in)	MAX. TRANSOM LENGTH (in)	MAX. DESIGN PRESSURE (psf)
DF500-2	60	72	65
	36	84	65



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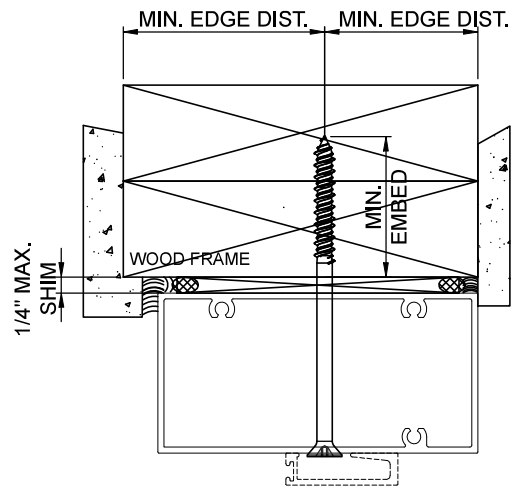
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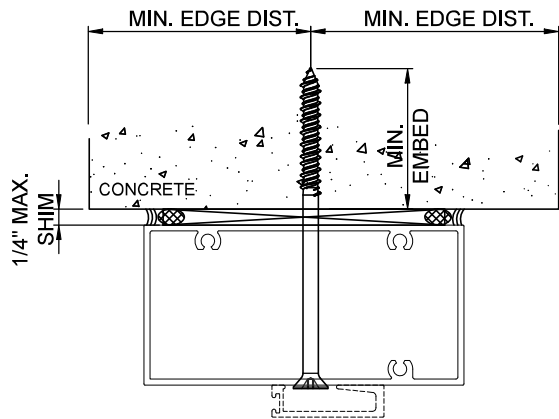
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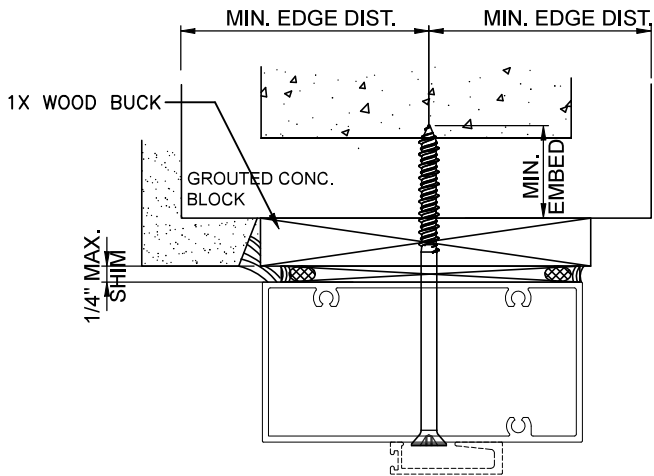
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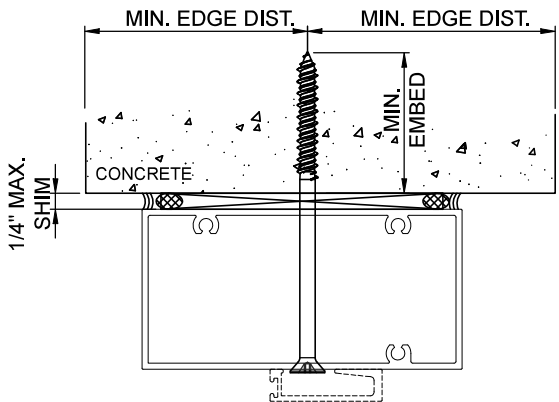
TYPE A or B



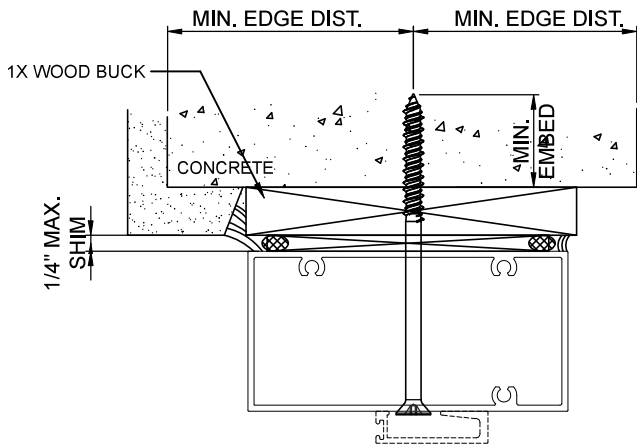
TYPE C or D



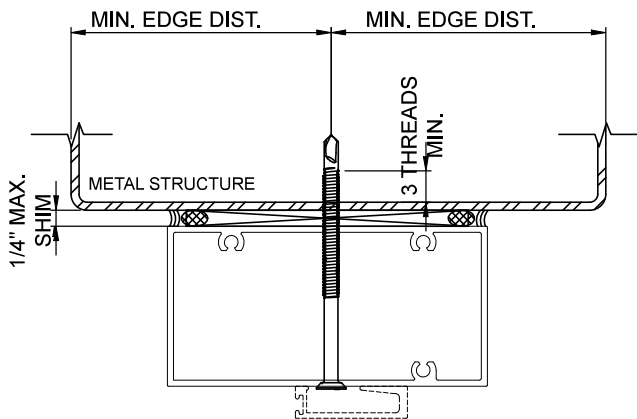
TYPE E



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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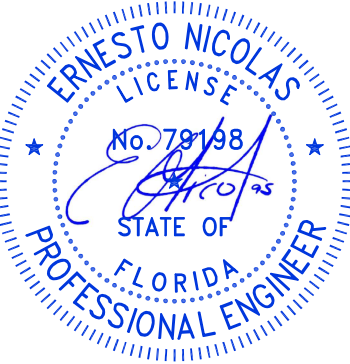
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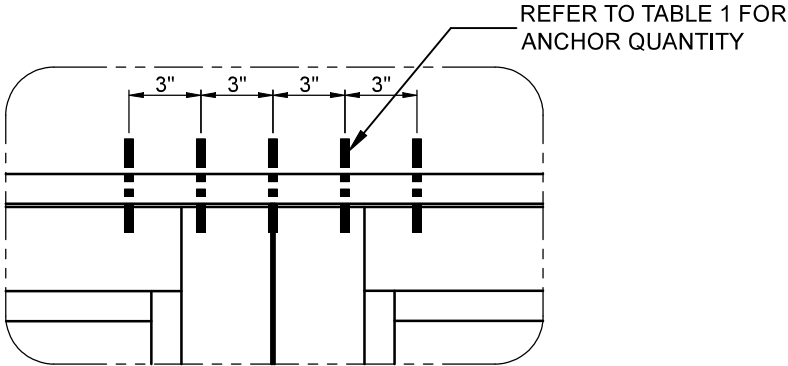
TABLE 1		
NO. OF ANCHORS AT MTG. STILE TOP		
ANCHOR TYPE	DOOR OPENING WIDTH	
	≤ 72"	≤ 84"
A	5	6
B	4	4
C	5	6
D	3	4
E	3	4
F	4	5

TABLE 3	
JAMB ANCHOR SPACING (in)	
DOOR OPENING WIDTH	
≤ 72"	≤ 84"
18	16

TABLE 4 - TRANSOM PERIMETER ANCHOR	
Anchor Type	Spacing (in)
A	12
B	17
C	12
D	18
E	18
F	14

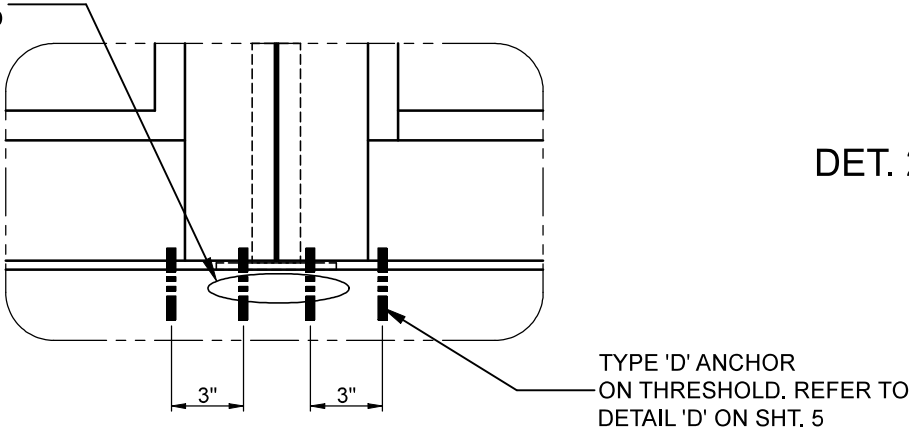
TABLE 5 - TRANSOM BAR END ANCHOR	
Anchor Type	Quantity
A	6
B	4
C	6
D	4
E	4
F	5

ANCHOR SCHEDULE

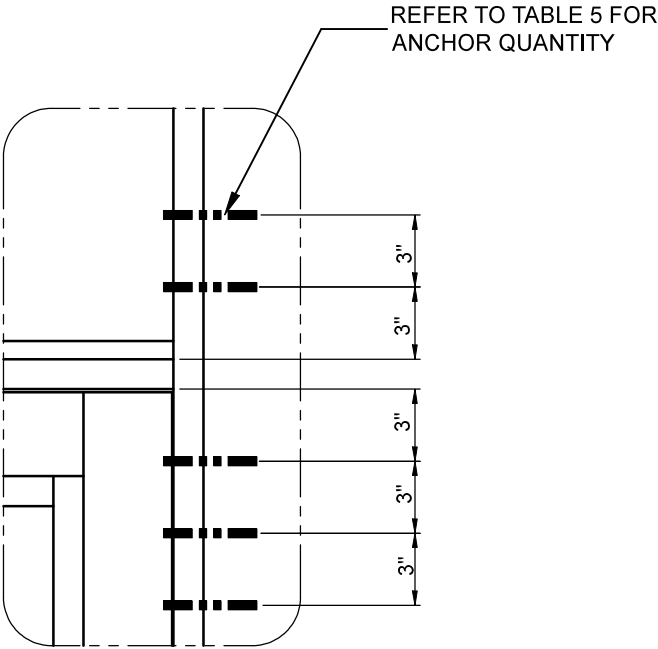


DET. 1 - MTG. STILE TOP ANCHOR

4PCS TYPE 'D' ANCHOR ON REMOVABLE MULLION BOTTOM FITTING. REFER TO DETAIL 'D' ON SHT. 5



DET. 3 - MTG. STILE BOTTOM ANCHOR



DET. 2 - TRANSOM END ANCHOR

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 ENTRANCE DOOR

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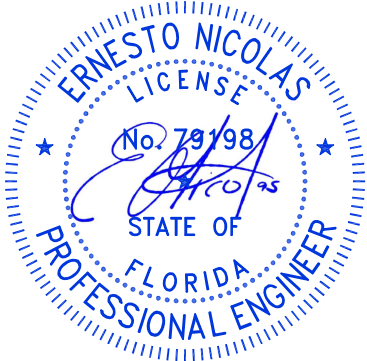
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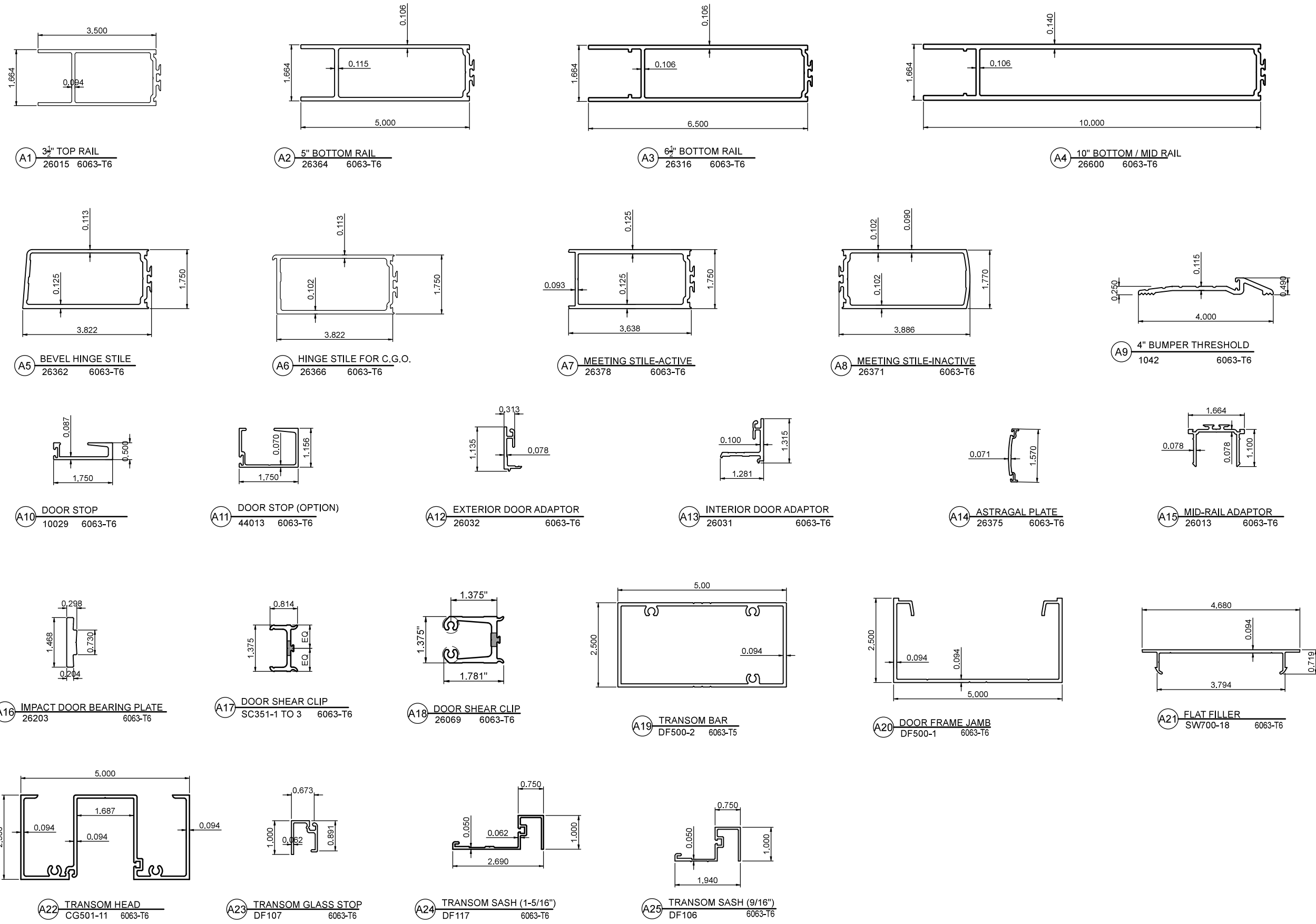
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ENTRANCE DOOR

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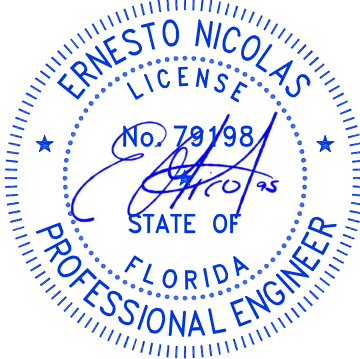
ENGINEER:



En3 Engineering & Consultancy

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

STAMP:



FLORIDA PRODUCT APPROVAL:

FL47083

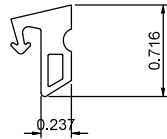
DATE: DEC. 12, 2024

Drwn: Erick	CHK: ESN
Drwg. No: 24FL-105	SCALE: N.T.S.

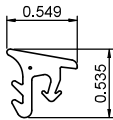
SHEET NO.:

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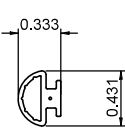
SERIES 353F SAFETYLINE™ DOOR PARTS TABLE



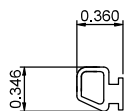
B1 DOOR GLAZING GASKET
RG15 EPDM



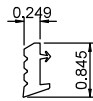
B2 EXTERIOR GLAZING GASKET
RG-2 EPDM



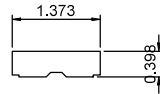
B3 DOOR STOP GASKET
RG-5 EPDM



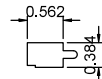
B4 BUMPER THRESHOLD GASKET
H74 EPDM



B5 INTERIOR GLAZING GASKET
RG-13 EPDM



B6 TRANSOM SETTING BLOCK
RSB-18 EPDM



B6 TRANSOM SETTING BLOCK
RSB-15 EPDM

SERIES 353F SAFETYLINE™ DOOR PARTS TABLE (CONT.)

SERIES 351 DOOR BILL OF MATERIALS

ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER
A1	26015	3 ½" TOP RAIL	ALUM. 6063-T6	TRULITE
A2	26364	5" BOTTOM RAIL	ALUM. 6063-T6	TRULITE
A3	26316	6½" BOTTOM RAIL	ALUM. 6063-T6	TRULITE
A4	26600	10" BOTTOM/MID RAIL	ALUM. 6063-T6	TRULITE
A5	26362	BEVEL HINGE STILE	ALUM. 6063-T6	TRULITE
A6	26366	HINGE STILE FOR C.G.H.	ALUM. 6063-T6	TRULITE
A7	26378	MEETING STILE - ACTIVE	ALUM. 6063-T6	TRULITE
A8	26371	MEETING STILE - INACTIVE	ALUM. 6063-T6	TRULITE
A9	1042	4" BUMPER THRESHOLD	ALUM. 6063-T6	TRULITE
A10	10029	DOOR STOP	ALUM. 6063-T6	TRULITE
A11	44013	DOOR STOP	ALUM. 6063-T6	TRULITE
A12	26032	EXTERIOR DOOR ADAPTOR	ALUM. 6063-T6	TRULITE
A13	26031	INTERIOR DOOR ADAPTOR	ALUM. 6063-T6	TRULITE
A14	26375	ASTRAGAL PLATE	ALUM. 6063-T6	TRULITE
A15	26013	MID-RAIL ADAPTOR	ALUM. 6063-T6	TRULITE
A16	26203	IMPACT DOOR BEARING PLATE	ALUM. 6063-T6	TRULITE
A17	SC351-1 TO 3	SHEAR CLIP (1.75", 5.25" & 7.75" LONG)	ALUM. 6063-T6	TRULITE
A18	26069	DOOR SHEAR CLIP	ALUM. 6063-T6	TRULITE
A19	DF500-2	TRANSOM BAR / HEADER	ALUM. 6063-T6	TRULITE
A20	DF500-1	DOOR FRAME JAMB	ALUM. 6063-T6	TRULITE
A21	SW700-18	FLAT FILLER	ALUM. 6063-T6	TRULITE
A22	CG501-11	TRANSOM HEAD	ALUM. 6063-T6	TRULITE
A23	DF107	TRANSOM GLASS STOP	ALUM. 6063-T6	TRULITE
A24	DF117	TRANSOM SASH (1-5/16")	ALUM. 6063-T6	TRULITE
A25	DF106	TRANSOM SASH (9/16")	ALUM. 6063-T6	TRULITE

BILL OF MATERIALS

ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER
B1	RG-15	DOOR GLAZING GASKET	EPDM (DUR. 70 SHORE A)	TRULITE
B2	RG-2	TRANSOM GLAZING GASKET	EPDM (DUR. 65 +-5, SHORE A)	TRULITE
B3	RG-5	DOOR STOP GASKET	EPDM (DUR. 65 SHORE A)	TRULITE
B4	H74	BUMPER THRESHOLD	EPDM (DUR. 70 SHORE A)	TRULITE
B5	RG-13	INTERIOR GASKET (DRY GLAZED)	EPDM (DUR. 65 +-5, SHORE A)	TRULITE
B6	RSB-18	TRANSOM SETTING BLOCK 1 ⅞"	EPDM (DUR. 85 +-5, SHORE A)	TRULITE
B7	RSB-15	TRANSOM SETTING BLOCK ⅝"	EPDM (DUR. 85 +-5, SHORE A)	TRULITE
B8	RG-8	INTERIOR SPACER GASKET	EPDM (DUR. 75 +-5, SHORE A)	TRULITE

ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER
C1	23301	RUBBER GROMMET AT ASTRAGAL	NITRIL	RUBBERGROMMET.COM
C2	6009X	HEAVY DUTY ALUM. CONT. GEARED HINGE	ALUMINUM	HAGER
C3	24110	BRUSH PILE	YARN	AMESBURY GROUP
C4	23501	DOOR STOP CLIP, 4" @ ENDS & 12" O.C. MAX.	STEEL	EVANS MANUFACT.
C5	SPACER2	PVC SETTING BLOCK FOR ⅝" GLASS	PVC	M & M PLASTIC
C6	ULTRAFAB E205	BUMPER THRESHOLD GASKET	THERM PLAST.	ULTRAFAB
C7	KR9954	REMOVABLE MULLION	STEEL	VON DUPRIN
C8	-	⅜"Ø TIE ROD	STEEL	VARIES
C9	DOWSIL995	STRUCTURAL SEALANT	STRUCTURAL SILICONE	DOW
C10	DOWSIL983	STRUCTURAL SEALANT	STRUCTURAL SILICONE	DOW
C11	GT-1	JOINT SEALANT TAPE	BUTYL	SCHNEE-MOREHEAD
C12	-	GLASS SPACER	ALUMINUM	VARIES

ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER
D1	FAS14-2	¼"-14 x 1" HWH-F MS	ZINC COATED STEEL	VARIES
D2	23097	#10-24" x ½" PFH	ZINC COATED STEEL	VARIES
D3	23302	#6x¾" UC-PFH TEK	ZINC COATED STEEL	VARIES
D4	23079	#10-24 x ¾" PFH	ZINC COATED STEEL	VARIES
D5	23177	#14 x 1" PFH	STAINLESS STEEL	VARIES
D6	-	#10-16 x 2½"UC PFH	ZINC COATED STEEL	VARIES
D7	FAS10-1	#10-16 X 1/2" HWH	ZINC COATED STEEL	VARIES



<http://www.trulite.com>

1750 Founders Pkwy, Suite. 154,
Alpharetta GA, 30009
p. 800-432-8132

PRODUCT:

**SAFETYLINE™ SERIES
ENTRANCE DOOR**

REVN.	DATE/REMARKS

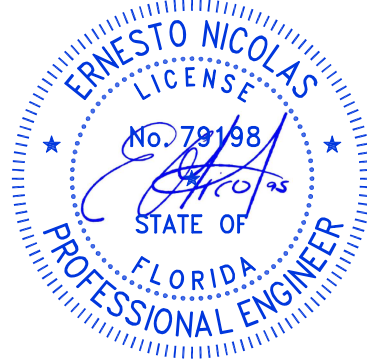
ENGINEER:



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FLORIDA PRODUCT APPROVAL:

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DATE: DEC. 12, 2024

Drwn: Erick	CHK: ESN
Drwg. No: 24FL-105	SCALE: N.T.S.

SHEET NO.:

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