

TRULITE GLASS & ALUMINUM SOLUTIONS

3200 IMPACT RESISTANT THERMAL STOREFRONT SYSTEM

WITH MULTIPLE INFILLS (LMI LEVEL 'D' & 'E' - 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 ACCORDING TO THE FOLLOWING STANDARDS:

 - TAS 202-94 (ASTM E283, ASTM E330, ASTM E331)
 - TAS 201-94 (ASTM 1996)
 - TAS 203-94 (ASTM E 1886)

SERIES 3300 RESISTOR ALUMINUM STOREFRONT SYSTEM WAS TESTED TO COMPLY UP TO MISSILE LEVEL "E" (80FT/SEC) IMPACT AND QUALIFIED FOR USE ON ESSENTIAL FACILITIES.
2.

THIS STOREFRONT SYSTEM IS RATED FOR BOTH LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.
3.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE FOLLOWED.
4.

THE PRIMARY STRUCTURE WHERE THIS CURTAINWALL SYSTEM WILL BE INSTALLED MUST BE CAPABLE OF SUPPORTING ALL THE LOADS IMPOSED BY THIS STOREFRONT SYSTEM.
5.

ANCHORS SHALL BE AS LISTED AND SPACED ACCORDING TO THE DETAILS PROVIDED. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS REQUIRED. ANCHOR EMBEDMENT INTO BASE MATERIAL MUST EXTEND BEYOND THE WALL DRESSING OR STUCCO. FOR INSTALLATION THROUGH A METAL FRAME, ENSURE A MINIMUM PENETRATION OF 3 THREADS BEYOND THE FRAME SUBSTRATE.

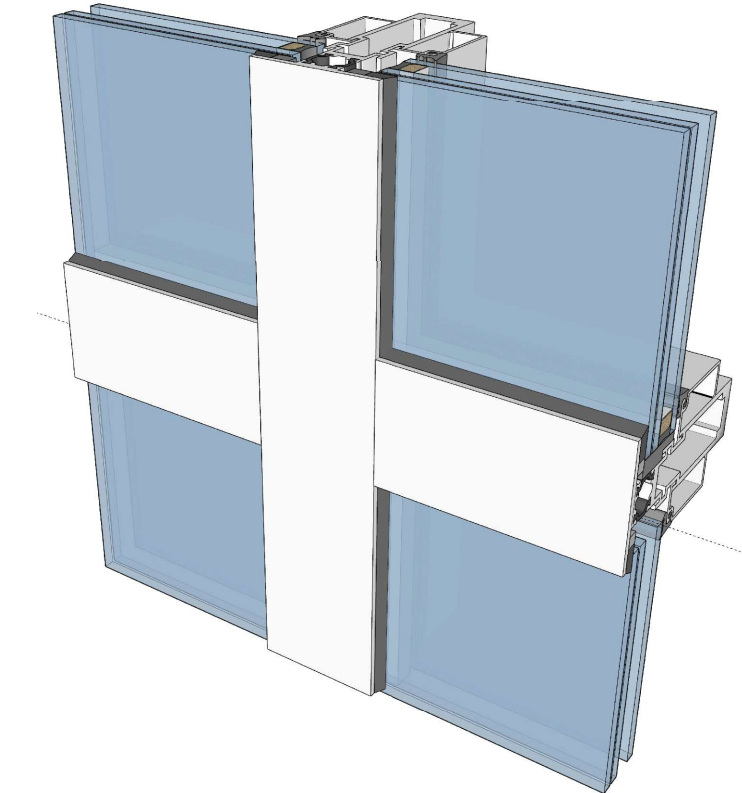
FOR GROUTED FILLED BLOCK (CMU), DO NOT INSTALL ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM THE FREE EDGE OF THE BLOCK OR THE EDGE OF THE MORTAR JOINT IN THE FACE SHELL OF THE BLOCK.

INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE 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 AND 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 MUST BE HIGH-IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.



9.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
10.

THE ULTIMATE LOAD OBTAINED FROM APPLICABLE ASCE 7 STANDARD MULTIPLIED BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAXIMUM DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS PRESENTED IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.
11.

THE GASKETS USED IN THIS FENESTRATION PRODUCT ARE IN COMPLIANCE WITH SECT. 2411.3.4 OF FBC 2023

INSTRUCTIONS FOR USE:

1.

DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BUILDING HEIGHT AND WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
2.

REFER TO THE TABLE ON SHEET 3 FOR DESIGN LOAD CAPACITY OF THE DESIRED GLASS SIZE.
3.

CHECK THE MULLION AND JAMB CAPACITY FOR A SPECIFIED SPACING AND HEIGHT USING THE TABLES ON SHEETS 4 AND 5. THE CAPACITY MUST BE EQUAL TO OR GREATER THAN THE DESIGN LOAD.
4.

REFER TO SHEETS 8 & 9 FOR ANCHOR TYPE & CAPACITY. THE ANCHOR CAPACITY MUST BE EQUAL TO OR GREATER THAN THE DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
5.

THE LOWEST VALUE RESULTING FROM STEP 2,3 AND 4 SHALL APPLY TO THE ENTIRE SYSTEM.

ABBREVIATIONS:

- DLO or D.L.O. - DAYLIGHT OPENING

REINF. - REINFORCEMENT
- TYP. - TYPICAL

H.S. - HEAT STRENGTHENED
- FH - FRAME HEIGHT

F.T. - FULLY TEMPERED
- DFOV - DOOR FRAME OPENING WIDTH

EXT. - EXTERIOR
- DFOH - DOOR FRAME OPENING HEIGHT
- DP - DESIGN PRESSURE
- NTS - NOT TO SCALE
- W - WIDTH
- H - HEIGHT
- DP - DESIGN PRESSURE
- SLW - SIDELITE WIDTH
- O.C.- ON CENTER

LIMITATIONS OF USE

- A.

THIS NOA DOCUMENT IS GENERIC AND DOES NOT PROVIDE INFORMATION ABOUT A SITE-SPECIFIC PROJECT OR WHERE THE SITE CONDITIONS DEVIATE FROM THIS DOCUMENT.
- B.

FOR CONDITIONS THAT DEVIATE FROM THIS NOA DOCUMENT, A FLORIDA REGISTERED ENGINEER OR ARCHITECT MUST REVIEW THESE CHANGES. THIS INDIVIDUAL WILL BECOME THE ENGINEER OF RECORD FOR THE PROJECT.



GLASS & ALUMINUM SOLUTIONS™

<http://www.trulite.com>

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

PRODUCT:

3200 Thermal Impact
Storefront System
HVHZ - LMI

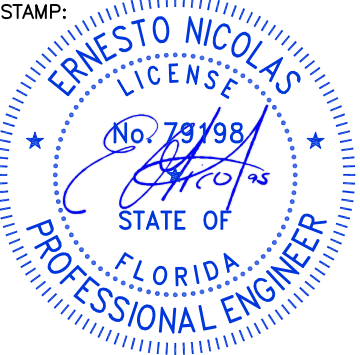

PRODUCT SERIES

REVN	DATE/REMARKS
1	10/19/2024 : LEVEL 'E' IMPACT QUALIFICATION
2	02/10/2025 : ADD'L GLASS QUALIFICATIONS

ENGINEER:



En3 Engineering & Consultancy
950 SW 135th Way Sunrise,
FL 33325 P. 786 474 3876
Email: en3.engconsult@gmail.com



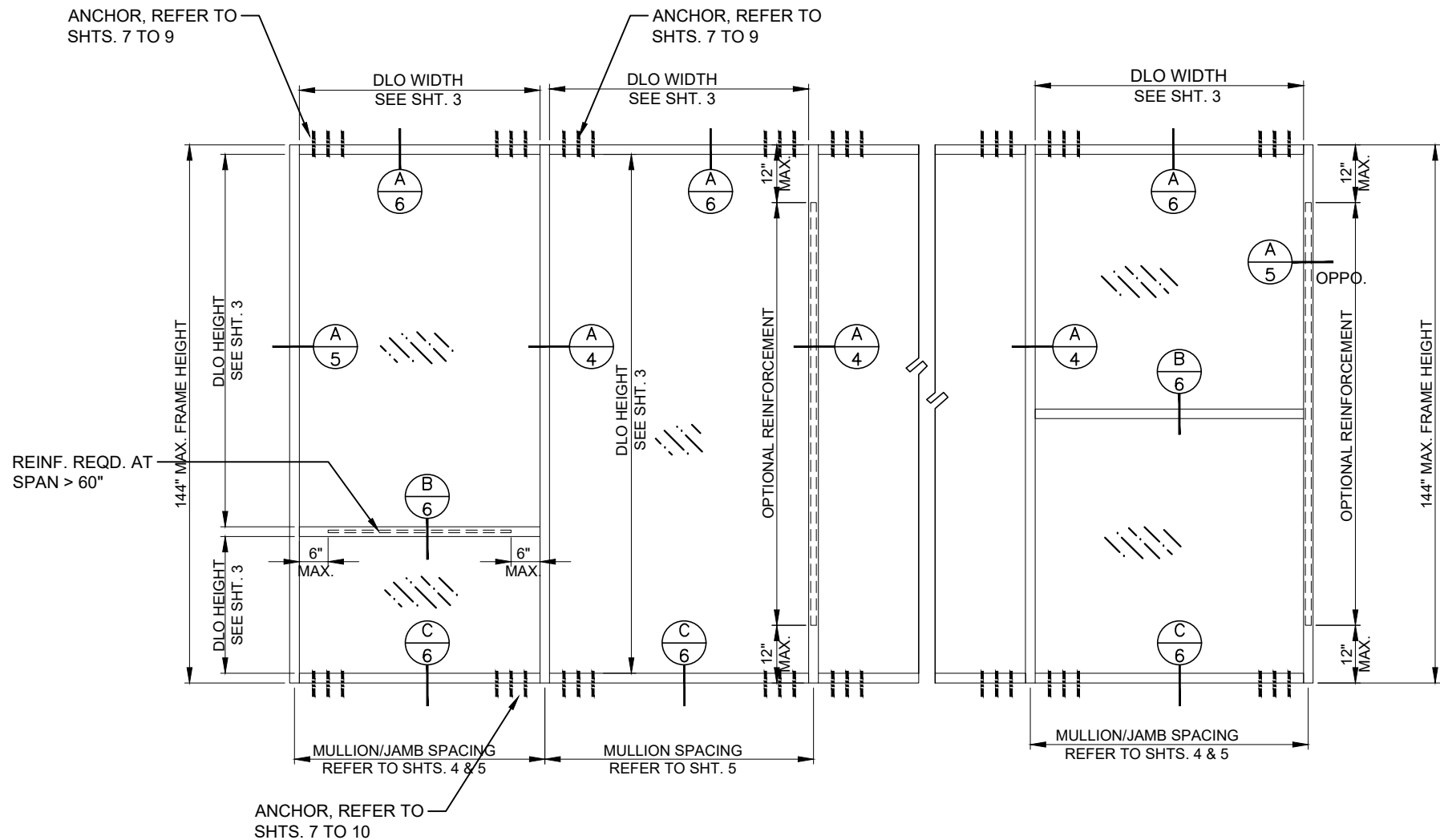
FLORIDA PRODUCT APPROVAL:

FL45204

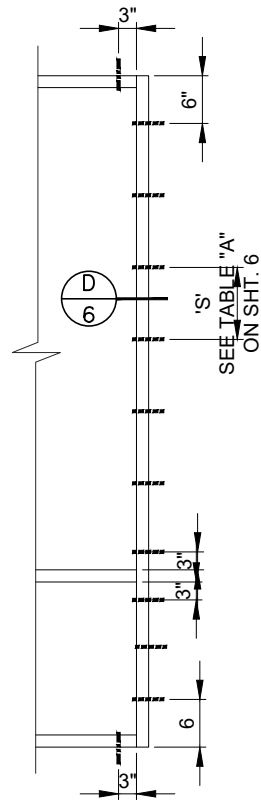
DATE: JAN. 22, 2025	
DRAWN: Bobi	CHK: ESN
DRWG. No: 23FL-102	SCALE: NTS

SHEET NO.:

1 of 11

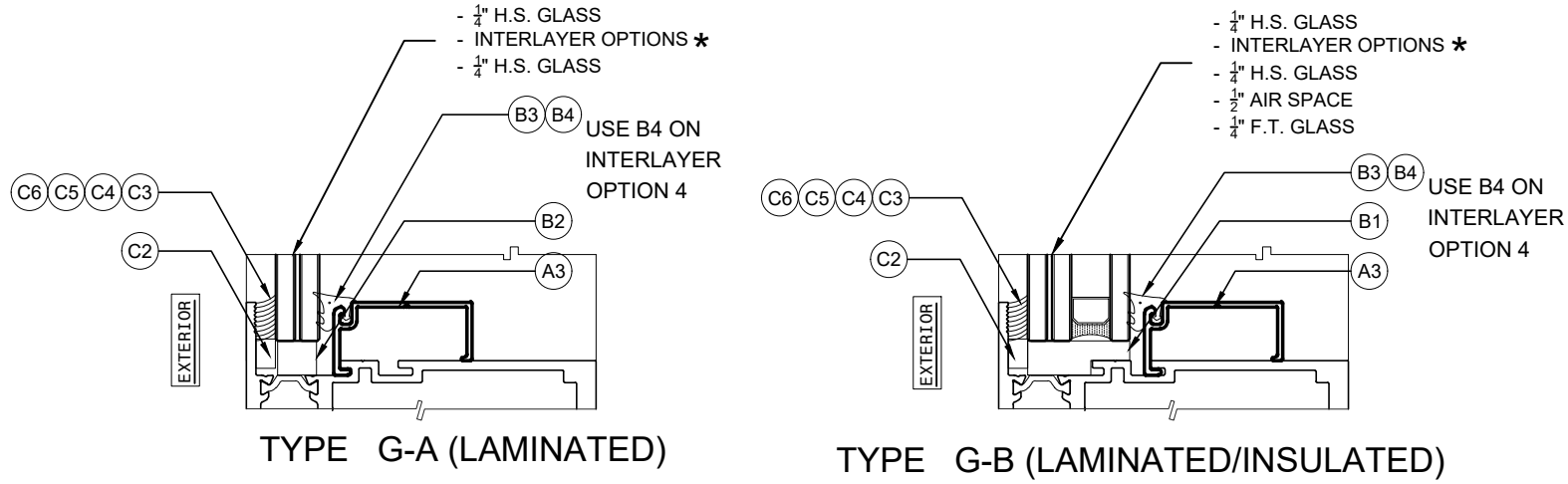


TYPICAL ELEVATIONS



ANCHORED JAMB

(APPLICABLE TO MAXIMUM HEIGHT, MAXIMUM MULLION/JAMB SPACING AND MAXIMUM PRESSURE)



GLAZING OPTIONS

- * INTERLAYER OPTIONS:
- 0.090" SAFLEX PVB CLEAR AND COLOR GLASS INTERLAYERS BY EASTMAN CHEMICAL COMPANY.
 - 0.100" SAFLEX HP CLEAR AND COLOR GLASS INTERLAYERS BY EASTMAN CHEMICAL COMPANY.
 - 0.090" KURARAY SENTRYGLAS INTERLAYER BY KURARAY AMERICA INC.
 - 0.180" KURARAY SENTRYGLAS INTERLAYER BY KURARAY AMERICA INC. (LEVEL 'E' IMPACT)
 - 0.090"EVERLAM SUPER TOUGH PVB INTERLAYER.
 - 0.090" EVERLAM LAM50 PVB INTERLAYER.



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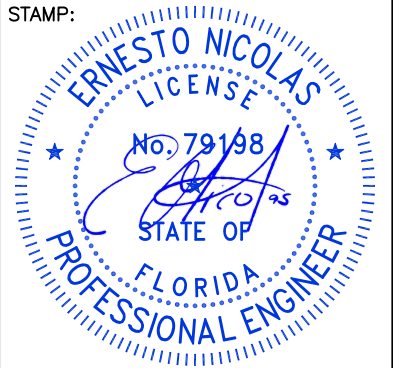
PRODUCT:
**3200 Thermal Impact
Storefront System**
HVHZ - LMI



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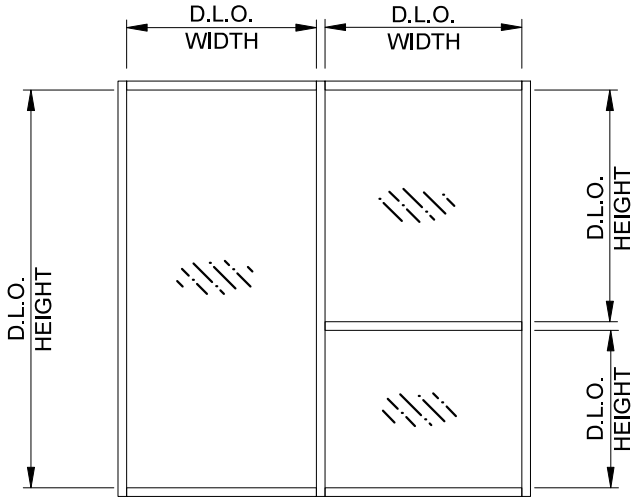
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DATE: JAN. 22, 2025	
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DRWG. No: 23FL-102	SCALE: NTS
SHEET NO.:	

GLASS LOAD CAPACITIES (psf)									
DLO (in)		GLASS TYPES							
		EASTMAN SAFLEX INTERLAYER		KURARAY SENTRYGLAS®		EVERLAM PVB			
		0,090" SAFLEX PVB		0,100" SAFLEX HP		0,090" SUPER TOUGH PVB		0,090" LAM50 PVB	
		9/16" LAMI.	1 5/16" INS./LAMI.	9/16" LAMI. / 1 5/16" INS./LAMI.	9/16" LAMI. / 1 5/16" INS./LAMI.	9/16" LAMI. / 1 5/16" INS./LAMI.	9/16" LAMI. / 1 5/16" INS./LAMI.	9/16" LAMI. / 1 5/16" INS./LAMI.	9/16" LAMI. / 1 5/16" INS./LAMI.
W	H	EXT.(+) /INT.(-)	EXT.(+) /INT.(-)	EXT.(+) /INT.(-)	EXT.(+) /INT.(-)	EXT.(+) /INT.(-)	EXT.(+) /INT.(-)	EXT.(+) /INT.(-)	EXT.(+) /INT.(-)
50.00	68	70	80	100	100	+85/-85	+70/-85	+65/-75	
56.00		70	80	100	100	+85/-85	+70/-85	-	
62.00		70	80	100	100	+85/-85	-	-	
68.00		70	-	100	100	+85/-85	-	-	
72.00		70	-	100	100	+85/-85	-	-	
48.00	74	70	80	100	100	+85/-85	+70/-85	+65/-75	
50.00		70	80	100	100	+85/-85	+70/-85	-	
56.00		70	80	100	100	+85/-85	+70/-85	-	
62.00		70	-	100	100	+85/-85	-	-	
68.00		-	-	100	100	+85/-85	-	-	
72.00	80	-	-	100	100	+85/-85	-	-	
45.00		70	80	100	100	+85/-85	+70/-85	+65/-75	
50.00		70	80	100	100	+85/-85	+70/-85	-	
56.00		70	-	100	100	+85/-85	-	-	
62.00		-	-	100	100	+85/-85	-	-	
68.00	86	-	-	100	100	+85/-85	-	-	
72.00		-	-	100	100	-	-	-	
38.00		70	80	100	100	+85/-85	+70/-85	+65/-75	
44.00		70	80	100	100	+85/-85	+70/-85	-	
50.00		70	-	100	100	+85/-85	-	-	
56.00	92	70	-	100	100	+85/-85	-	-	
62.00		-	-	100	100	+85/-85	-	-	
68.00		-	-	100	100	-	-	-	
72.00		-	-	100	-	-	-	-	
32.00		70	80	100	100	+85/-85	+70/-85	+65/-75	
38.00	98	70	80	100	100	+85/-85	+70/-85	-	
44.00		70	-	100	100	+85/-85	-	-	
50.00		-	-	100	100	+85/-85	-	-	
56.00		-	-	100	100	+85/-85	-	-	
62.00		-	-	100	100	-	-	-	
68.00	104	-	-	100	-	-	-	-	
32.00		70	80	100	100	+85/-85	+70/-85	+65/-75	
38.00		70	80	100	100	+85/-85	+70/-85	-	
44.00		70	-	100	100	+85/-85	-	-	
50.00		-	-	100	100	+85/-85	-	-	
56.00	110	-	-	100	100	+85/-85	-	-	
62.00		-	-	100	100	-	-	-	
32.00		70	80	100	100	+85/-85	+70/-85	+65/-75	
38.00		70	80	100	100	+85/-85	+70/-85	-	
44.00		70	-	100	100	+85/-85	-	-	
50.00	110	-	-	100	100	+85/-85	-	-	
56.00		-	-	100	100	-	-	-	
62.00		-	-	97.5	-	-	-	-	

GLASS LOAD CAPACITIES (psf)													
DLO (in)		GLASS TYPES											
		EASTMAN SAFLEX INTERLAYER		KURARAY SENTRYGLAS®		EVERLAM PVB							
		0,090" SAFLEX PVB		0,100" SAFLEX HP		0,090" SUPER TOUGH PVB		0,090" LAM50 PVB					
		9/16" LAMI.	1 5/16" INS./LAMI.	9/16" LAMI. / 1 5/16" INS./LAMI.	9/16" LAMI. / 1 5/16" INS./LAMI.	9/16" LAMI. / 1 5/16" INS./LAMI.	9/16" LAMI. / 1 5/16" INS./LAMI.	9/16" LAMI. / 1 5/16" INS./LAMI.	9/16" LAMI. / 1 5/16" INS./LAMI.	9/16" LAMI. / 1 5/16" INS./LAMI.	9/16" LAMI. / 1 5/16" INS./LAMI.	9/16" LAMI. / 1 5/16" INS./LAMI.	9/16" LAMI. / 1 5/16" INS./LAMI.
W	H	EXT.(+) /INT.(-)	EXT.(+) /INT.(-)	EXT.(+) /INT.(-)	EXT.(+) /INT.(-)	EXT.(+) /INT.(-)	EXT.(+) /INT.(-)	EXT.(+) /INT.(-)	EXT.(+) /INT.(-)	EXT.(+) /INT.(-)	EXT.(+) /INT.(-)	EXT.(+) /INT.(-)	EXT.(+) /INT.(-)
26.00	116	70	80	100	100	+85/-85	+70/-85	+65/-75					
32.00		70	80	100	100	+85/-85	+70/-85	-					
38.00		70	-	100	100	+85/-85	-	-					
44.00		-	-	100	100	+85/-85	-	-					
50.00		-	-	100	100	-	-	-					
56.00	122	-	-	97.9	100	-	-	-					
58.75		-	-	94.6	-	-	-	-					
26.00		70	80	100	100	+85/-85	+70/-85	+65/-75					
32.00		70	80	100	100	+85/-85	+70/-85	-					
38.00		70	-	100	100	+85/-85	-	-					
44.00	128	-	-	100	100	+85/-85	-	-					
50.00		-	-	100	100	-	-	-					
26.00		70	80	100	100	+85/-85	+70/-85	+65/-75					
32.00		70	80	100	100	+85/-85	+70/-85	-					
38.00		70	-	100	100	+85/-85	-	-					
44.00	134	-	-	100	100	-	-	-					
50.00		-	-	100	100	-	-	-					
26.00		70	80	100	100	+85/-85	+70/-85	+65/-75					
32.00		70	-	100	100	+85/-85	-	-					
38.00		-	-	100	100	+85/-85	-	-					
44.00	140	-	-	100	100	-	-	-					
50.00		-	-	100	100	-	-	-					
26.00		70	80	100	100	+85/-85	+70/-85	+65/-75					
32.00		70	-	100	100	+85/-85	-	-					
38.00		-	-	100	100	+85/-85	-	-					
44.00	140	-	-	100	100	-	-	-					
45.25		-	-	100	100	-	-	-					

Table 1 | GLASS CAPACITY TABLE



GLASS DLO

NOTE:

- GLASS CAPACITIES ON THIS SHEET WERE VERIFIED BASED ON ASTM E1300-16 (3 SEC. GUSTS).
- PROVIDE 2 SETTING BLOCKS PER GLASS PANEL AS PER 2023 FBC SECT. 2411.3.3.1. STANDARD LOCATION OF SETTING BLOCK IS AT L/4; HOWEVER, THE ACTUAL PLACEMENT OF THE SETTING BLOCK MAY VARY DEPENDING ON THE WEIGHT/SIZE OF THE GLASS, AS VERIFIED BY CALCULATION.
- OTHER GLASS SIZES ARE QUALIFIED AS LONG AS EQUAL OR LESS THAN TESTED AREA.
- INSULATED GLASS SEALANT:
PRIMARY SEALANT: PIB-POLYISOBUTYLENE
SECONDARY SEALANT: SILICONE SEALANT

DESIGNATION	GLASS THICKNESS	INTERLAYER TYPE
TYPE A1	$\frac{9}{16}$ " LAMINATED GLASS	0.090" SAFLEX PVB
TYPE B1	1 $\frac{5}{16}$ " LAMINATED INSULATED GLASS	
TYPE A2	$\frac{9}{16}$ " LAMINATED GLASS	0.100" SAFLEX HP
TYPE B2	1 $\frac{5}{16}$ " LAMINATED INSULATED GLASS	
TYPE A3	$\frac{9}{16}$ " LAMINATED GLASS	0.090" SENTRYGLAS®
TYPE B3	1 $\frac{5}{16}$ " LAMINATED INSULATED GLASS	
TYPE A4	$\frac{9}{16}$ " LAMINATED GLASS	0.180" SENTRYGLAS®
TYPE B4	1 $\frac{5}{16}$ " LAMINATED INSULATED GLASS	
TYPE A5	$\frac{9}{16}$ " LAMINATED GLASS	0.090" EVERLAM SUPER TOUGH PVB
TYPE B5	1 $\frac{5}{16}$ " LAMINATED INSULATED GLASS	
TYPE B6	$\frac{9}{16}$ " LAMINATED GLASS	0.090" EVERLAM LAM50 PVB
TYPE B6	1 $\frac{5}{16}$ " LAMINATED INSULATED GLASS	



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PRODUCT SERIES

REVN	DATE/REMARKS
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2	02/10/2025 : ADD'L GLASS QUALIFICATIONS

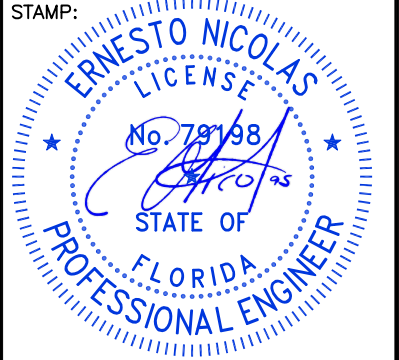
ENGINEER:



En3 Engineering & Consultancy

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

STAMP:



FLORIDA PRODUCT APPROVAL:

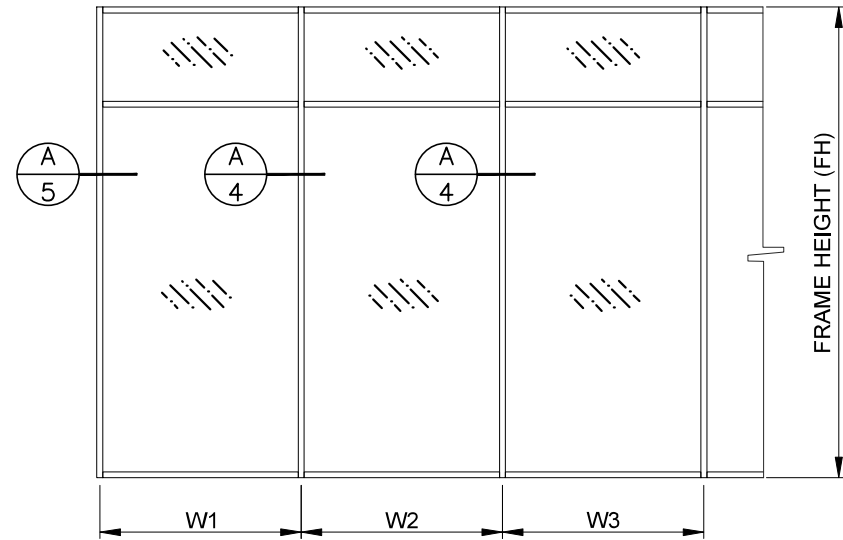
FL45204

DATE: JAN. 22, 2025

DRAWN: Bobi	CHK: ESN
DRWG. No: 23FL-102	SCALE: NTS

SHEET NO.:

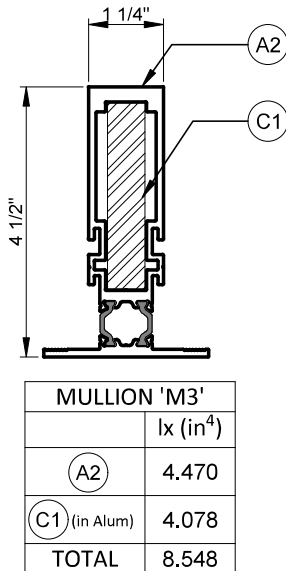
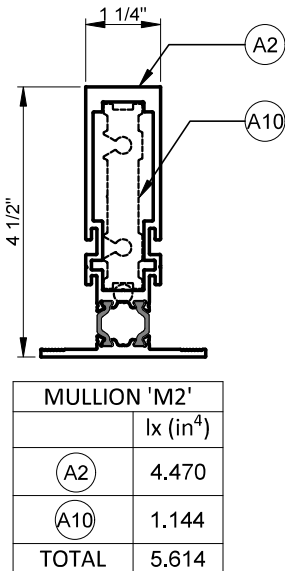
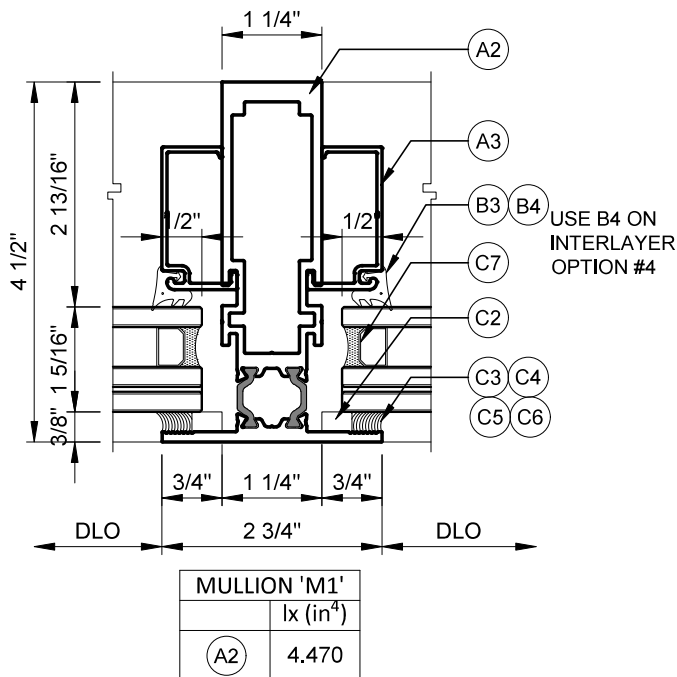
3 of 11



ELEV. 1

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$
$$\text{WIDTH (W)} = \frac{W2 + W3}{2}$$

$$\text{WIDTH (W)} = W1 \text{ (JAMB)}$$



A STANDARD MULLION
REFER TO ELEV. 1

MULLION OPTIONS

MULLION CAPACITIES (psf)					
Dimensions (in)		M1	M2	M3	
W	H	EXT. (+) /INT.(-)	EXT. (+) /INT.(-)	EXT. (+)	/INT.(-)
60	78	65.0	65.0	85.0	95.0
66		65.0	65.0	85.0	89.1
72		65.0	65.0	81.6	81.6
54	84	65.0	65.0	85.0	95.0
60		65.0	65.0	85.0	91.0
66		65.0	65.0	82.7	82.7
72		64.4	65.0	75.8	75.8
48	90	65.0	65.0	85.0	95.0
54		65.0	65.0	85.0	94.3
60		62.8	65.0	84.9	84.9
66		57.1	65.0	77.2	77.2
72		52.3	65.0	70.8	70.8
42	96	65.0	65.0	85.0	95.0
48		64.7	65.0	85.0	95.0
54		57.5	65.0	85.0	88.4
60		51.7	65.0	79.6	79.6
66		47.0	59.1	72.4	72.4
72		-	54.1	66.3	66.3
36	102	65.0	65.0	85.0	95.0
42		61.6	65.0	85.0	95.0
48		53.9	65.0	85.0	93.6
54		47.9	60.2	83.2	83.2
60		43.1	54.2	74.9	74.9
66	108	-	49.2	68.1	68.1
30		65.0	65.0	85.0	95.0
36		60.6	65.0	85.0	95.0
42		51.9	65.0	85.0	95.0
48		45.4	57.0	84.0	86.9
54	114	40.4	50.7	74.6	77.2
60		36.3	45.6	67.2	69.5
66		-	41.5	61.1	63.2
24		65.0	65.0	85.0	95.0
30	120	61.8	65.0	85.0	95.0
36		51.5	64.7	85.0	95.0
42		44.1	55.4	84.4	84.4
48		38.6	48.5	73.9	73.9
54		34.3	43.1	65.6	65.6
60	126	-	38.8	59.1	59.1
66		-	35.3	53.7	53.7

MULLION CAPACITIES (psf)					
Dimensions (in)		M1	M2	M3	
W	H	EXT. (+) /INT.(-)	EXT. (+) /INT.(-)	EXT. (+)	/INT.(-)
24	120	65.0	65.0	85.0	95.0
30		53.0	65.0	85.0	95.0
36		44.1	55.4	84.4	84.4
42		37.8	47.5	72.4	72.4
48		33.1	41.6	63.3	63.3
54	126	29.4	37.0	56.3	56.3
60		-	33.3	50.7	50.7
24		57.2	65.0	85.0	95.0
30		45.8	57.5	85.0	87.5
36		38.1	47.9	72.9	72.9
42	132	32.7	41.1	62.5	62.5
48		28.6	35.9	54.7	54.7
54		-	31.9	48.6	48.6
60		-	28.7	43.8	43.8
24		49.8	62.5	85.0	95.0
30	138	39.8	50.0	76.1	76.1
36		33.2	41.7	63.4	63.4
42		28.4	35.7	54.4	54.4
48		24.9	31.2	47.6	47.6
54		-	27.8	42.3	42.3
24	144	43.5	54.7	83.3	83.3
30		34.8	43.7	66.6	66.6
36		29.0	36.5	55.5	55.5
42		24.9	31.2	47.6	47.6
48		-	27.3	41.6	41.6
54	150	-	24.3	37.0	37.0
24		38.3	48.1	73.3	73.3
30		30.7	38.5	58.6	58.6
36		25.5	32.1	48.9	48.9
42		21.9	27.5	41.9	41.9
48	156	-	24.1	36.6	36.6
54		-	21.4	32.6	32.6

Table 2 | MULLION LOAD CAPACITY TABLE



GLASS & ALUMINUM SOLUTIONS™

http://www.trulite.com

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

PRODUCT:

**3200 Thermal Impact
Storefront System**
HVHZ - LMI


PRODUCT SERIES

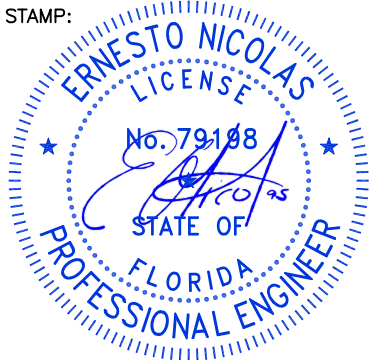
REV#	DATE/REMARKS
1	10/19/2024 : LEVEL "E" IMPACT QUALIFICATION
2	02/10/2025 : ADD'L GLASS QUALIFICATIONS

ENGINEER:



En3 Engineering & Consultancy
950 SW 135th Way Sunrise,
FL 33325 P. 786 474 3876
Email: en3.engconsul@gmail.com

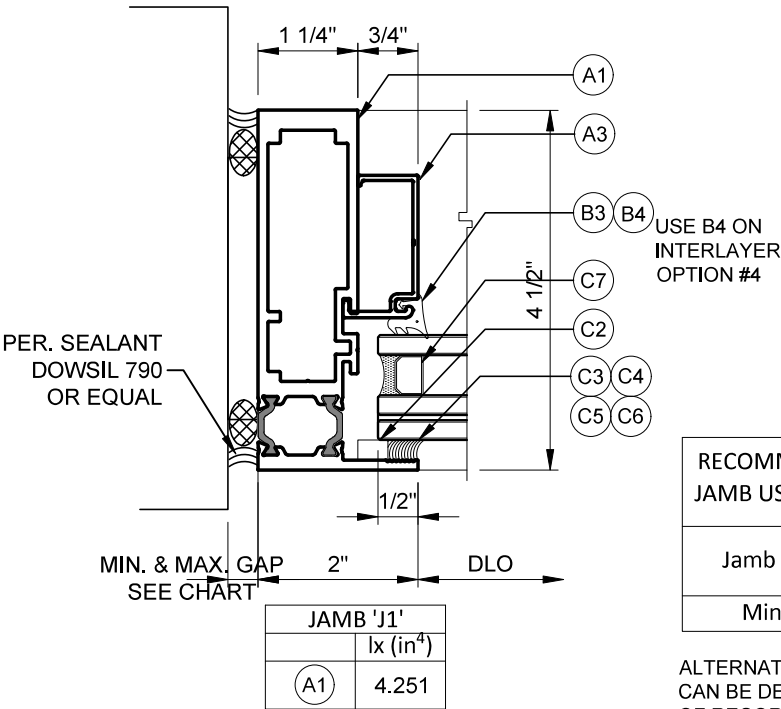
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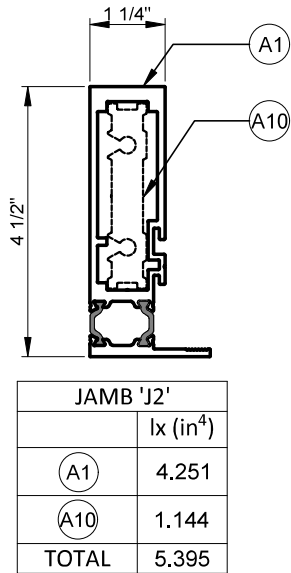
DATE:	JAN. 22, 2025
DRAWN: Bobi	CHK: ESN
DRWG. No: 23FL-102	SCALE: NTS
SHEET NO.:	4 of 11



RECOMMENDED FRAME GAP ON UN-ANCHORED JAMB USING DOWSIL 790 SEALANT ($\frac{3}{4}$ " MAX. GAP)				
Jamb Height (ft.)	≤6	≤8	≤10	≤12
Min. gap (in)	1/4	5/16	3/8	1/2

ALTERNATE SEALANT AT JAMB GAP CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER'S GUIDE LINES

A JAMB (UN-ANCHORED)
REFER TO ELEV. 1



JAMB 'J2'	
	Ix (in ⁴)
A1	4.251
A10	1.144
TOTAL	5.395

JAMB OPTION

JAMB CAPACITIES (psf)					
Dimensions (in)		J1		J2	
W	H	EXT. (+)	/INT.(-)	EXT. (+)	/INT.(-)
72	84	85.0	95.0	85.0	95.0
66	90	85.0	95.0	85.0	95.0
72		80.6	90.1	80.6	90.1
60		85.0	95.0	85.0	95.0
66	96	77.3	86.4	77.3	86.4
72		70.8	79.2	70.8	79.2
48		85.0	95.0	85.0	95.0
54	102	83.7	91.2	83.7	93.5
60		75.3	82.0	75.3	84.2
66		68.4	74.6	68.4	76.5
72		62.7	68.4	62.7	70.1
42	108	85.0	95.0	85.0	95.0
48		84.0	86.4	84.0	93.8
54		74.6	76.8	74.6	83.4
60		67.2	69.1	67.2	75.1
66		61.1	62.8	61.1	68.2
72	114	56.0	57.6	56.0	62.6
36		85.0	95.0	85.0	95.0
42		83.9	83.9	85.0	95.0
48		73.5	73.5	75.3	84.2
54		65.3	65.3	67.0	74.9
60	120	58.8	58.8	60.3	67.4
66		53.4	53.4	54.8	61.2
30		85.0	95.0	85.0	95.0
36		84.0	84.0	85.0	95.0
42		72.0	72.0	77.7	86.9
48	126	63.0	63.0	68.0	76.0
54		56.0	56.0	60.4	67.6
60		50.4	50.4	54.4	60.8
66		45.8	45.8	49.5	55.3
24		85.0	95.0	85.0	95.0
30	132	85.0	87.0	85.0	95.0
36		72.5	72.5	82.2	91.9
42		62.2	62.2	70.5	78.8
48		54.4	54.4	61.7	68.9
54		48.4	48.4	54.8	61.3
60	138	43.5	43.5	49.3	55.1

JAMB CAPACITIES (psf)					
Dimensions (in)		J1		J2	
W	H	EXT. (+)	/INT.(-)	EXT. (+)	/INT.(-)
24	132	85.0	94.6	85.0	95.0
30		75.7	75.7	85.0	95.0
36		63.1	63.1	74.9	80.1
42		54.1	54.1	64.2	68.6
48		47.3	47.3	56.2	60.0
54	138	42.1	42.1	50.0	53.4
60		37.9	37.9	45.0	48.0
24		82.8	82.8	85.0	95.0
30		66.3	66.3	82.3	84.1
36		55.2	55.2	68.6	70.1
42	144	47.3	47.3	58.8	60.1
48		41.4	41.4	51.4	52.6
54		36.8	36.8	45.7	46.7
24		72.9	72.9	85.0	92.5
30		58.3	58.3	75.6	74.0
36	144	48.6	48.6	63.0	61.7
42		41.7	41.7	54.0	52.9
48		36.4	36.4	47.2	46.3
54	144	32.4	32.4	41.1	41.1



GLASS & ALUMINUM SOLUTIONS™

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PRODUCT:

3200 Thermal Impact
Storefront System
HVHZ - LMI



REV#	DATE/REMARKS
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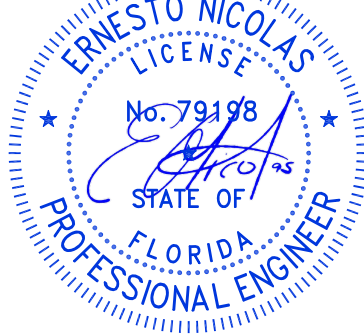
ENGINEER:



En3 Engineering & Consultancy

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

STAMP:



FLORIDA PRODUCT APPROVAL:

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DATE: JAN. 22, 2025

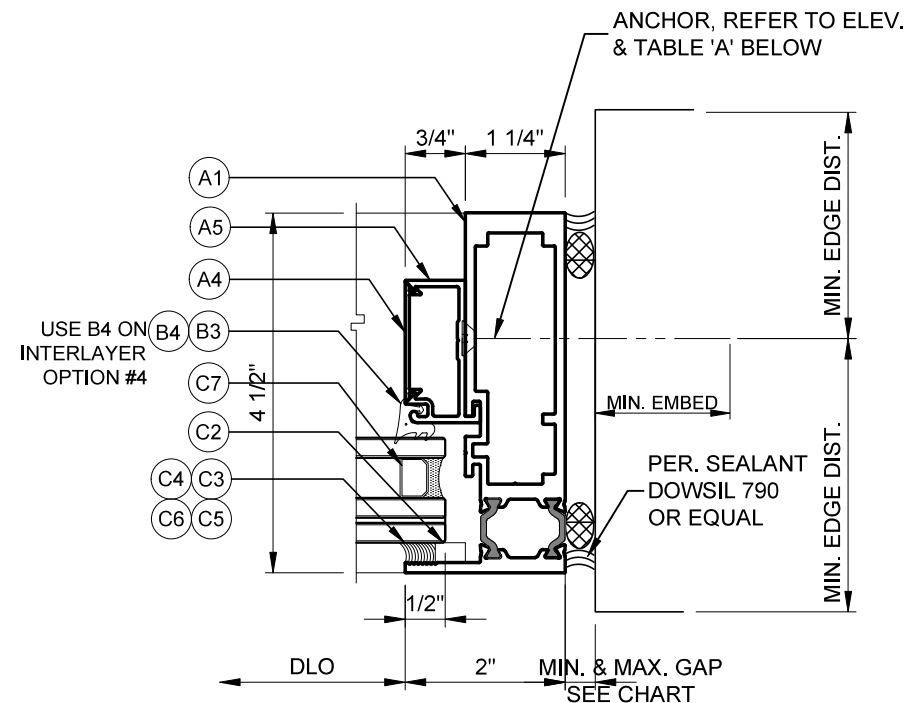
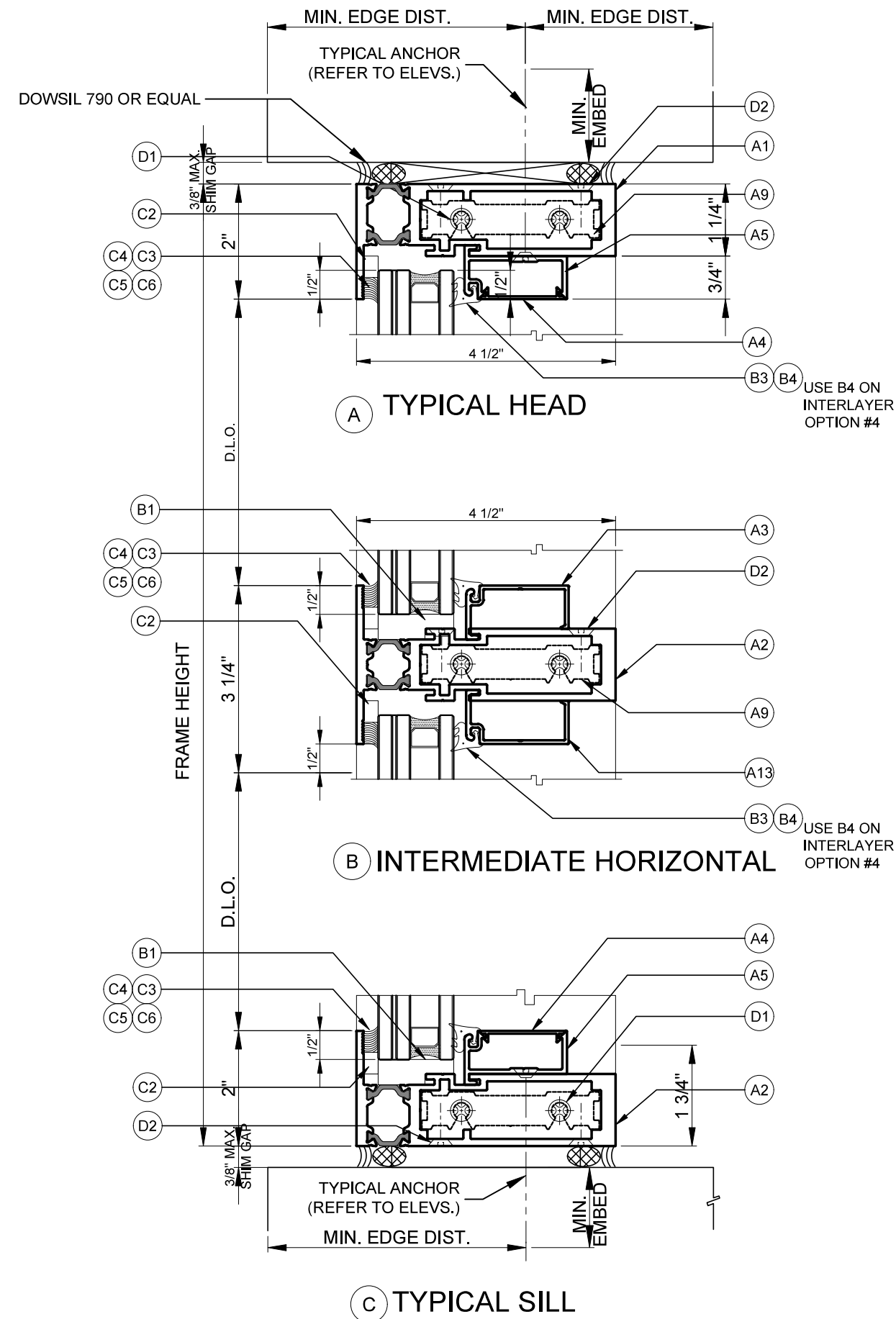
DRAWN: Bobi CHK: ESN

DRWG. No: 23FL-102 SCALE: NTS

SHEET NO.:

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Table 3 | JAMB LOAD CAPACITY TABLE



(D) JAMB OPTION (ANCHORED)

(APPLICABLE TO MAXIMUM HEIGHT, MAXIMUM MULLION/JAMB SPACING AND MAXIMUM PRESSURE)

TABLE A - JAMB ANCHOR SPACING 'S' (in)						
ANCHOR TYPE	MAX. 1/4" SHIM GAP			MAX. 3/8" SHIM GAP		
	MULLION SPACING (in)					
	≤ 48	≤ 60	≤ 72	≤ 48	≤ 60	≤ 72
A	12	10	8	10	8	7
B	15	12	10	15	12	10
C	15	12	10	10	8	7
D	22	17	14	15	12	10
E	17	13	11	15	12	10
F	18	14	12	12	10	8



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**3200 Thermal Impact
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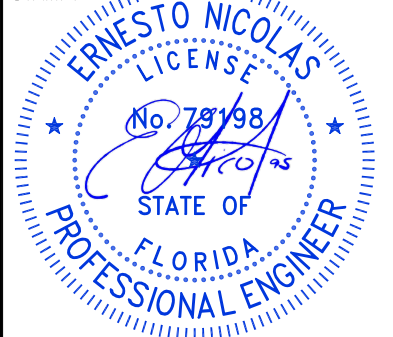
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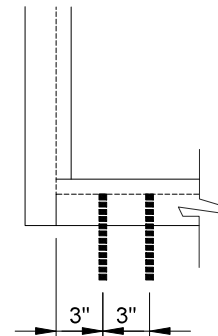
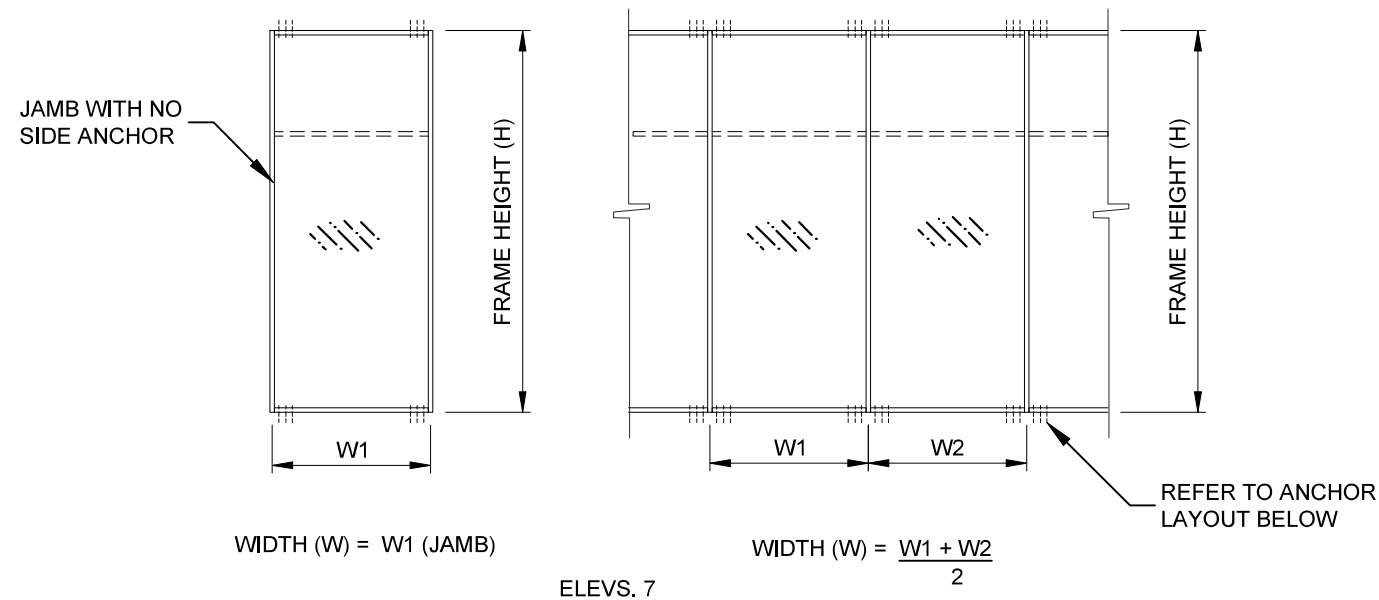
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DRAWN: Bobi CHK: ESN

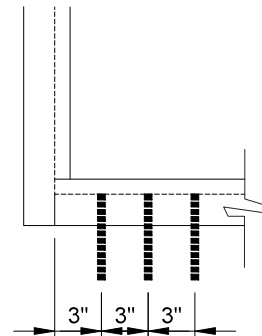
DRWG. No: 23FL-102 SCALE: NTS

SHEET NO.:

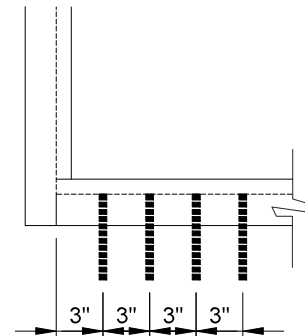
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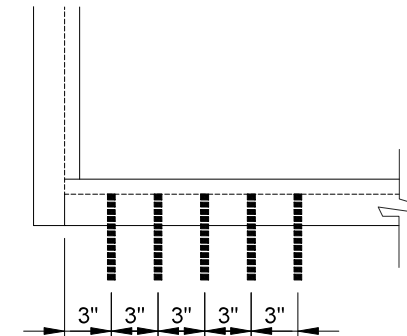
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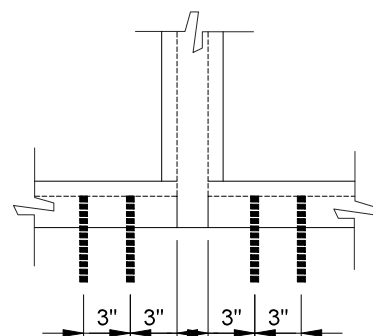
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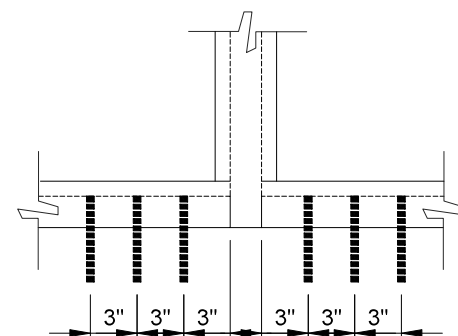
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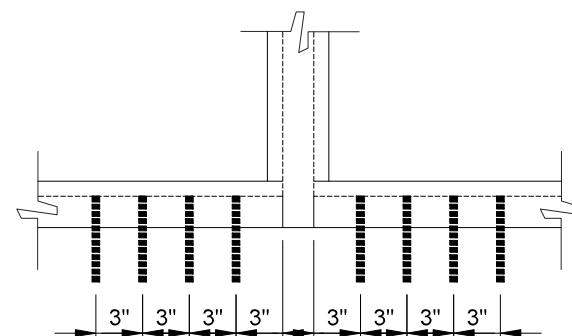
A5 or C5



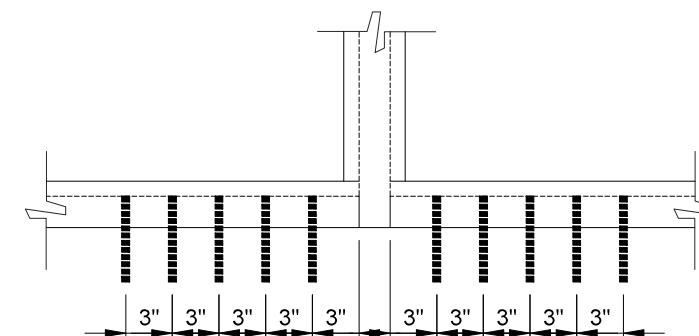
A2, B2, C2, D2, E2 or F2



A3, B3, C3, D3, E3 or F3



A4, B4, C4, D4, E4 or F4



A5 or C5

ANCHOR LAYOUT

REFER TO SHEET 8 FOR TYPES

PRODUCT:

**3200 Thermal Impact
Storefront System**
HVHZ - LMI

Resistor
PRODUCT SERIES

REV#	DATE/REMARKS
1	10/19/2024 : LEVEL 'E' IMPACT QUALIFICATION
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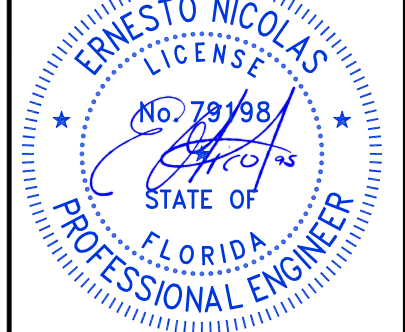
ENGINEER:



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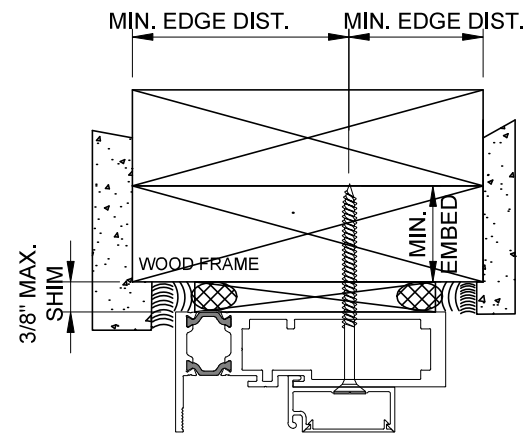
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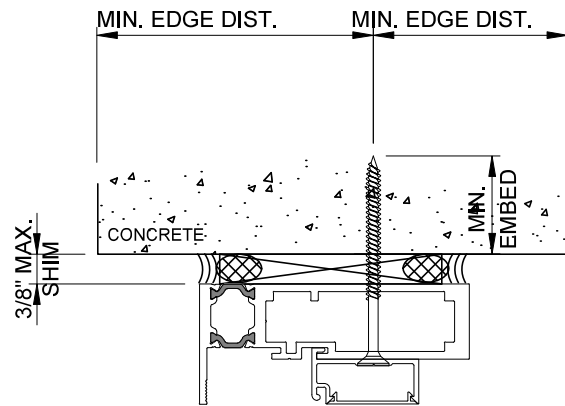
DRWG. No: 23FL-102 SCALE: NTS

SHEET NO.:

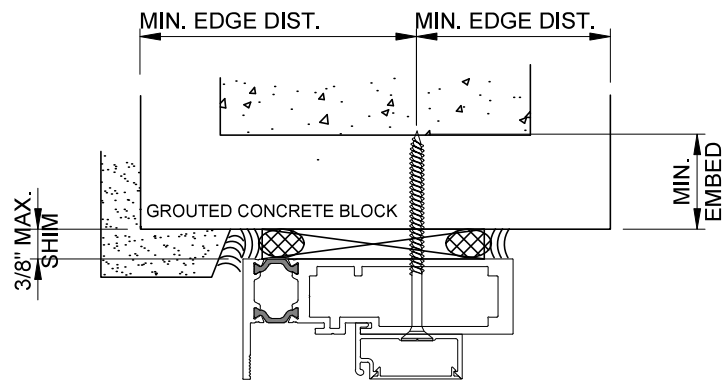
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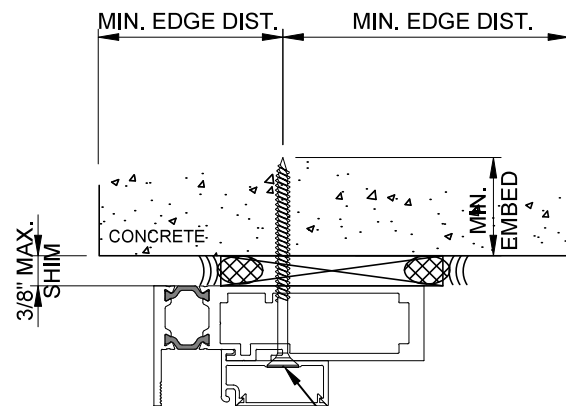
TYPE A or B



TYPE C or D

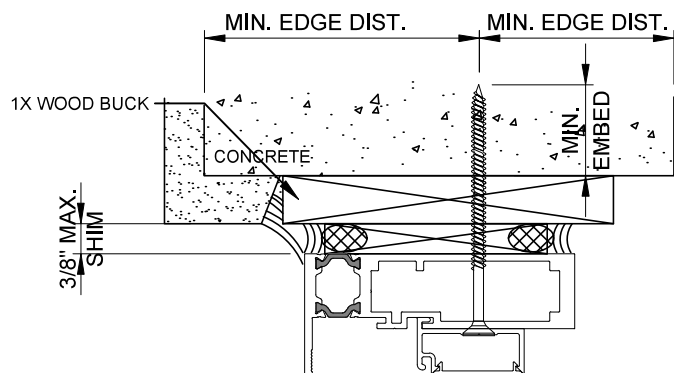


TYPE E

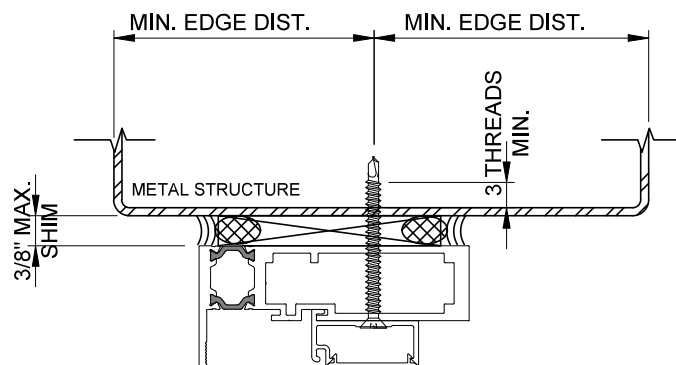


OPTIONAL ANCHOR LOCATION
(APPLICABLE TO
ALL ANCHOR TYPES)

TYP. ANCHOR LAY-OUT ON
 $\frac{9}{16}$ " THICK GLASS



TYPE C or D



TYPE F

ANCHOR TYPES

TYPE	SUBSTRATE	MATERIAL	MIN. EMBED (IN.)	MIN. EDGE DIST. (IN.)
A	WOOD	$\frac{1}{4}$ " $\varnothing$ - TAPCON (Fy = 100ksi & Fu = 125ksi min.)	1.50	1.25
B		$\frac{1}{4}$ " $\varnothing$ - ULTRACON (Fy = 148ksi & Fu = 164ksi min.)	1.50	1.25
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:

- 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 (FY=36KSI MIN. & 12GA. THICK MIN.) OR ALUMINUM (6063-T5 MIN. & 0.10" THICK MIN.)



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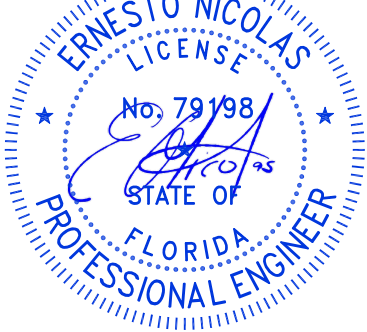
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STAMP:



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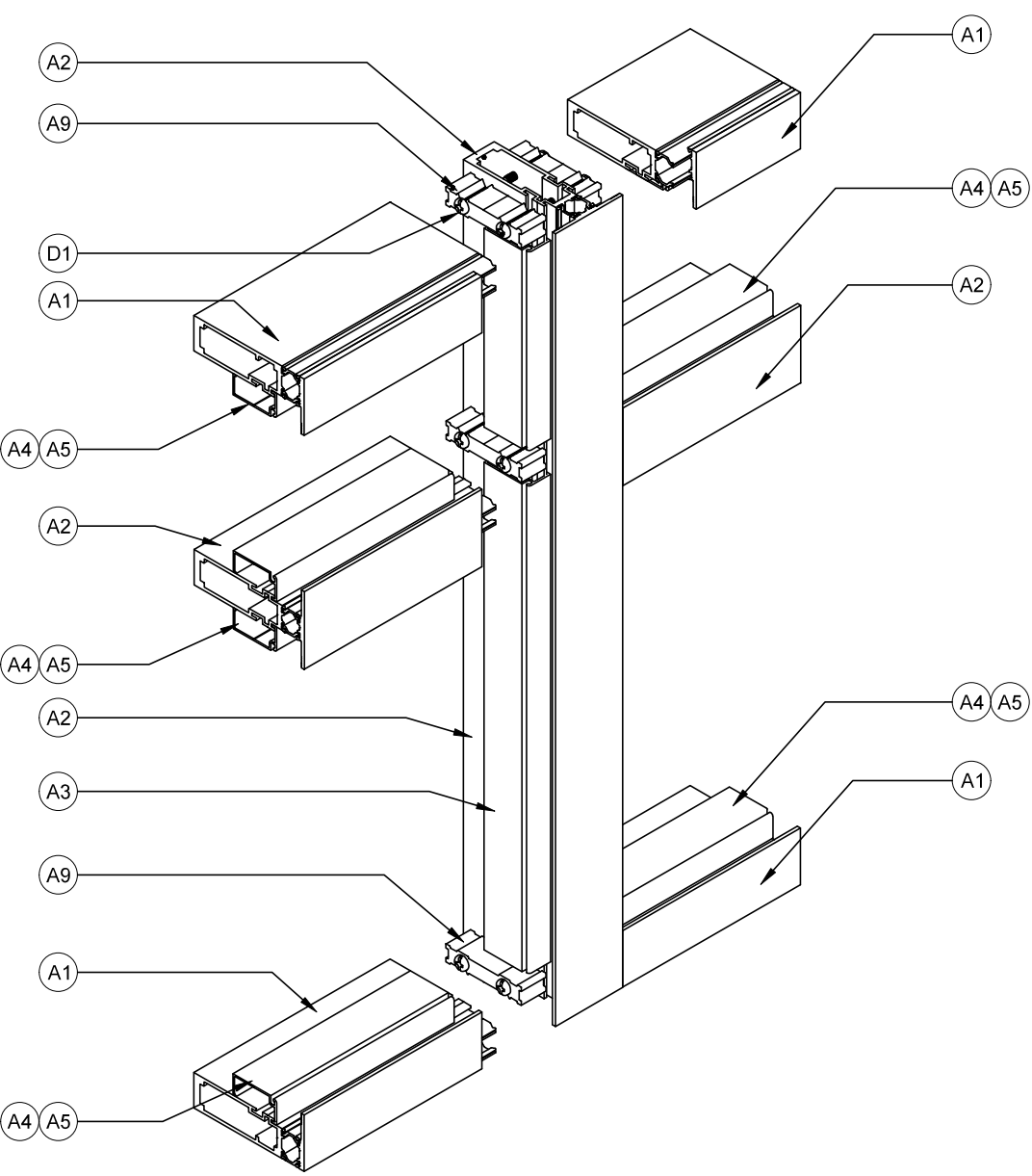
SHEET NO.:

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ANCHOR LOAD CAPACITY (PSF)																					Ext. (+) / Int. (-)		
NOMINAL SIZE (in.)		TYPE 'A'				TYPE 'B'			TYPE 'C'				TYPE 'D'			TYPE 'E'			TYPE 'F'				
W	H	A2	A3	A4	A5	B2	B3	B4	C2	C3	C4	C5	D2	D3	D4	E2	E3	E4	F2	F3	F4		
30	72	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0		
36		80.9	95.0	95.0	95.0	95.0	95.0	95.0	80.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0		
42		69.3	95.0	95.0	95.0	95.0	95.0	95.0	69.3	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	81.9	95.0	95.0		
48		60.7	91.0	95.0	95.0	85.3	95.0	95.0	60.7	91.0	95.0	95.0	88.3	95.0	95.0	88.3	95.0	95.0	71.7	95.0	95.0		
54		53.9	80.9	95.0	95.0	75.9	95.0	95.0	53.9	80.9	95.0	95.0	78.5	95.0	95.0	78.5	95.0	95.0	63.7	95.0	95.0		
60		48.5	72.8	95.0	95.0	68.3	95.0	95.0	48.5	72.8	95.0	95.0	70.7	95.0	95.0	70.7	95.0	95.0	57.3	86.0	95.0		
66		44.1	66.2	88.2	95.0	62.1	93.1	95.0	44.1	66.2	88.2	95.0	64.2	95.0	95.0	64.2	95.0	95.0	52.1	78.2	95.0		
72		40.4	60.7	80.9	95.0	56.9	85.3	95.0	40.4	60.7	80.9	95.0	58.9	88.3	95.0	58.9	88.3	95.0	47.8	71.7	95.0		
30	78	89.6	95.0	95.0	95.0	95.0	95.0	95.0	89.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0		
36		74.7	95.0	95.0	95.0	95.0	95.0	95.0	74.7	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	88.2	95.0	95.0		
42		64.0	95.0	95.0	95.0	90.0	95.0	95.0	64.0	95.0	95.0	95.0	93.2	95.0	95.0	93.2	95.0	95.0	75.6	95.0	95.0		
48		56.0	84.0	95.0	95.0	78.8	95.0	95.0	56.0	84.0	95.0	95.0	81.5	95.0	95.0	81.5	95.0	95.0	66.2	95.0	95.0		
54		49.8	74.7	95.0	95.0	70.0	95.0	95.0	49.8	74.7	95.0	95.0	72.5	95.0	95.0	72.5	95.0	95.0	58.8	88.2	95.0		
60		44.8	67.2	89.6	95.0	63.0	94.5	95.0	44.8	67.2	89.6	95.0	65.2	95.0	95.0	65.2	95.0	95.0	52.9	79.4	95.0		
66		40.7	61.1	81.5	95.0	57.3	85.9	95.0	40.7	61.1	81.5	95.0	59.3	89.0	95.0	59.3	89.0	95.0	48.1	72.2	95.0		
72		37.3	56.0	74.7	93.3	52.5	78.8	95.0	37.3	56.0	74.7	93.3	54.4	81.5	95.0	54.4	81.5	95.0	44.1	66.2	88.2		
30	84	83.2	95.0	95.0	95.0	95.0	95.0	95.0	83.2	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0		
36		69.3	95.0	95.0	95.0	95.0	95.0	95.0	69.3	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	81.9	95.0	95.0		
42		59.4	89.1	95.0	95.0	83.6	95.0	95.0	59.4	89.1	95.0	95.0	86.5	95.0	95.0	86.5	95.0	95.0	70.2	95.0	95.0		
48		52.0	78.0	95.0	95.0	73.1	95.0	95.0	52.0	78.0	95.0	95.0	75.7	95.0	95.0	75.7	95.0	95.0	61.4	92.1	95.0		
54		46.2	69.3	92.4	95.0	65.0	95.0	95.0	46.2	69.3	92.4	95.0	67.3	95.0	95.0	67.3	95.0	95.0	54.6	81.9	95.0		
60		41.6	62.4	83.2	95.0	58.5	87.8	95.0	41.6	62.4	83.2	95.0	60.6	90.9	95.0	60.6	90.9	95.0	49.1	73.7	95.0		
66		37.8	56.7	75.6	94.5	53.2	79.8	95.0	37.8	56.7	75.6	94.5	55.1	82.6	95.0	55.1	82.6	95.0	44.7	67.0	89.4		
72		34.7	52.0	69.3	86.7	48.8	73.1	95.0	34.7	52.0	69.3	86.7	50.5	75.7	95.0	50.5	75.7	95.0	41.0	61.4	81.9		
30	90	77.7	95.0	95.0	95.0	95.0	95.0	95.0	77.7	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	91.7	95.0	95.0		
36		64.7	95.0	95.0	95.0	91.0	95.0	95.0	64.7	95.0	95.0	95.0	94.2	95.0	95.0	94.2	95.0	95.0	76.4	95.0	95.0		
42		55.5	83.2	95.0	95.0	78.0	95.0	95.0	55.5	83.2	95.0	95.0	80.8	95.0	95.0	80.8	95.0	95.0	65.5	95.0	95.0		
48		48.5	72.8	95.0	95.0	68.3	95.0	95.0	48.5	72.8	95.0	95.0	70.7	95.0	95.0	70.7	95.0	95.0	57.3	86.0	95.0		
54		43.1	64.7	86.3	95.0	60.7	91.0	95.0	43.1	64.7	86.3	95.0	62.8	94.2	95.0	62.8	94.2	95.0	51.0	76.4	95.0		
60		38.8	58.2	77.7	95.0	54.6	81.9	95.0	38.8	58.2	77.7	95.0	56.5	84.8	95.0	56.5	84.8	95.0	45.9	68.8	91.7		
66		35.3	52.9	70.6	88.2	49.6	74.5	95.0	35.3	52.9	70.6	88.2	51.4	77.1	95.0	51.4	77.1	95.0	41.7	62.5	83.4		
72		32.4	48.5	64.7	80.9	45.5	68.3	91.0	32.4	48.5	64.7	80.9	47.1	70.7	94.2	47.1	70.7	94.2	38.2	57.3	76.4		
30	96	72.8	95.0	95.0	95.0	95.0	95.0	95.0	72.8	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	86.0	95.0	95.0		
36		60.7	91.0	95.0	95.0	85.3	95.0	95.0	60.7	91.0	95.0	95.0	88.3	95.0	95.0	88.3	95.0	95.0	71.7	95.0	95.0		
42		52.0	78.0	95.0	95.0	73.1	95.0	95.0	52.0	78.0	95.0	95.0	75.7	95.0	95.0	75.7	95.0	95.0	61.4	92.1	95.0		
48		45.5	68.3	91.0	95.0	64.0	95.0	95.0	45.5	68.3	91.0	95.0	66.3	95.0	95.0	66.3	95.0	95.0	53.8	80.6	95.0		
54		40.4	60.7	80.9	95.0	56.9	85.3	95.0	40.4	60.7	80.9	95.0	58.9	88.3	95.0	58.9	88.3	95.0	47.8	71.7	95.0		
60		36.4	54.6	72.8	91.0	51.2	76.8	95.0	36.4	54.6	72.8	91.0	53.0	79.5	95.0	53.0	79.5	95.0	43.0	64.5	86.0		
66		33.1	49.6	66.2	82.7	46.5	69.8	93.1	33.1	49.6	66.2	82.7	48.2	72.3	95.0	48.2	72.3	95.0	39.1	58.6	78.2		
72		30.3	45.5	60.7	75.8	42.7	64.0	85.3	30.3	45.5	60.7	75.8	44.2	66.3	88.3	44.2	66.3	88.3	35.8	53.8	71.7		
30	102	68.5	95.0	95.0	95.0	95.0	95.0	95.0	68.5	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	80.9	95.0	95.0		
36		57.1	85.6	95.0	95.0	80.3	95.0	95.0	57.1	85.6	95.0	95.0	83.1	95.0	95.0	83.1	95.0	95.0	67.5	95.0	95.0		
42		48.9	73.4	95.0	95.0	68.8	95.0	95.0	48.9	73.4	95.0	95.0	71.3	95.0	95.0	71.3	95.0	95.0	57.8	86.7	95.0		
48		42.8	64.2	85.6	95.0	60.2	90.4	95.0	42.8	64.2	85.6	95.0	62.4	93.5	95.0	62.4	93.5	95.0	50.6	75.9	95.0		
54		38.1	57.1	76.1	95.0	53.5	80.3	95.0	38.1	57.1	76.1	95.0	55.4	83.1	95.0	55.4	83.1	95.0	45.0	67.5	89.9		
60		34.3	51.4	68.5	85.6	48.2	72.3	95.0	34.3	51.4	68.5	85.6	49.9	74.8	95.0	49.9	74.8	95.0	40.5	60.7	80.9		
66		31.1	46.7	62.3	77.9	43.8	65.7	87.6	31.1	46.7	62.3	77.9	45.3	68.0	90.7	45.3	68.0	90.7	36.8	55.2	73.6		
72		28.5	42.8	57.1	71.4	40.2	60.2	80.3	28.5	42.8	57.1	71.4	41.6	62.4	83.1	41.6	62.4	83.1	33.7	50.6	67.5		

ANCHOR LOAD CAPACITY (PSF)																					Ext. (+) / Int. (-)		
NOMINAL SIZE (in.)		TYPE 'A'				TYPE 'B'			TYPE 'C'				TYPE 'D'			TYPE 'E'			TYPE 'F'				
W	H	A2	A3	A4	A5	B2	B3	B4	C2	C3	C4	C5	D2	D3	D4	E2	E3	E4	F2	F3	F4		
30	108	64.7	95.0	95.0	95.0	91.0	95.0	95.0	64.7	95.0	95.0	95.0	94.2	95.0	95.0	94.2	95.0	95.0	76.4	95.0	95.0		
36		53.9	80.9	95.0	95.0	75.9	95.0	95.0	53.9	80.9	95.0	95.0	78.5	95.0	95.0	78.5	95.0	95.0	63.7	95.0	95.0		
42		46.2	69.3	92.4	95.0	65.0	95.0	95.0	46.2	69.3	92.4	95.0	67.3	95.0	95.0	67.3	95.0	95.0	54.6	81.9	95.0		
48		40.4	60.7	80.9	95.0	56.9	85.3	95.0	40.4	60.7	80.9	95.0	58.9	88.3	95.0	58.9	88.3	95.0	47.8	71.7	95.0		
54		36.0	53.9	71.9	89.9	50.6	75.9	95.0	36.0	53.9	71.9	89.9	52.3	78.5	95.0	52.3	78.5	95.0	42.5	63.7	84.9		
60		32.4	48.5	64.7	80.9	45.5	68.3	91.0	32.4	48.5	64.7	80.9	47.1	70.7	94.2	47.1	70.7	94.2	38.2	57.3	76.4		
66		29.4	44.1	58.8	73.5	41.4	62.1	82.7	29.4	44.1	58.8	73.5	42.8	64.2	85.7	42.8	64.2	85.7	34.7	52.1	69.5		
72		27.0	40.4	53.9	67.4	37.9	56.9	75.9	27.0	40.4	53.9	67.4	39.3	58.9	78.5	39.3	58.9	78.5	31.9	47.8	63.7		
30	114	61.3	92.0	95.0	95.0	86.2	95.0	95.0	61.3	92.0	95.0	95.0	89.3	95.0	95.0	89.3	95.0	95.0	72.4	95.0	95.0		
36		51.1	76.6	95.0	95.0	71.9	95.0	95.0	51.1	76.6	95.0	95.0	74.4	95.0	95.0	74.4	95.0	95.0	60.4	90.5	95.0		
42		43.8	65.7	87.6	95.0	61.6	92.4	95.0	43.8	65.7	87.6	95.0	63.8	95.0	95.0	63.8	95.0	95.0	51.7	77.6	95.0		
48		38.3	57.5	76.6	95.0	53.9	80.8	95.0	38.3	57.5	76.6	95.0	55.8	83.7	95.0	55.8	83.7	95.0	45.3	67.9	90.5		
54		34.1	51.1	68.1	85.1	47.9	71.9	95.0	34.1	51.1	68.1	85.1	49.6	74.4	95.0	49.6	74.4	95.0	40.2	60.4	80.5		
60		30.7	46.0	61.3	76.6	43.1	64.7	86.2	30.7	46.0	61.3	76.6	44.6	66.9	89.3	44.6	66.9	89.3	36.2	54.3	72.4		
66		27.9	41.8	55.7	69.7	39.2	58.8	78.4	27.9	41.8	55.7	69.7	40.6	60.9	81.1	40.6	60.9	81.1	32.9	49.4	65.8		
72		25.5	38.3	51.1	63.9	35.9	53.9	71.9	25.5	38.3	51.1	63.9	37.2	55.8	74.4	37.2	55.8	74.4	30.2	45.3	60.4		
30	120	58.2	87.4	95.0	95.0	81.9	95.0	95.0	58.2	87.4	95.0	95.0	84.8	95.0	95.0	84.8	95.0	95.0	68.8	95.0	95.0		
36		48.5	72.8	95.0	95.0	68.3	95.0	95.0	48.5	72.8	95.0	95.0	70.7	95.0	95.0	70.7	95.0	95.0	57.3	86.0	95.0		
42		41.6	62.4	83.2	95.0	58.5	87.8	95.0	41.6	62.4	83.2	95.0	60.6	90.9	95.0	60.6	90.9	95.0	49.1	73.7	95.0		
48		36.4	54.6	72.8	91.0	51.2	76.8	95.0	36.4	54.6	72.8	91.0	53.0	79.5	95.0	53.0	79.5	95.0	43.0	64.5	86.0		
54		32.4	48.5	64.7	80.9	45.5	68.3	91.0	32.4	48.5	64.7	80.9	47.1	70.7	94.2	47.1	70.7	94.2	38.2	57.3	76.4		
60		29.1	43.7	58.2	72.8	41.0	61.4	81.9	29.1	43.7	58.2	72.8	42.4	63.6	84.8	42.4	63.6	84.8	34.4	51.6	68.8		
66		26.5	39.7	52.9	66.2	37.2	55.9	74.5	26.5	39.7	52.9	66.2	38.5	57.8	77.1	38.5	57.8	77.1	31.3	46.9	62.5		
72		24.3	36.4	48.5	60.7	34.1	51.2	68.3	24.3	36.4	48.5	60.7	35.3	53.0	70.7	35.3	53.0	70.7	28.7	43.0	57.3		
30	126	55.5	83.2	95.0	95.0	78.0	95.0	95.0	55.5	83.2	95.0	95.0	80.8	95.0	95.0	80.8	95.0	95.0	65.5	95.0	95.0		
36		46.2	69.3	92.4	95.0	65.0	95.0	95.0	46.2	69.3	92.4	95.0	67.3	95.0	95.0	67.3	95.0	95.0	54.6	81.9	95.0		
42		39.6	59.4	79.2	95.0	55.7	83.6	95.0	39.6	59.4	79.2	95.0	57.7	86.5	95.0	57.7	86.5	95.0	46.8	70.2	93.6		
48		34.7	52.0	69.3	86.7	48.8	73.1	95.0	34.7	52.0	69.3	86.7	50.5	75.7	95.0	50.5	75.7	95.0	41.0	61.4	81.9		
54		30.8	46.2	61.6	77.0	43.3	65.0	86.7	30.8	46.2	61.6	77.0	44.9	67.3	89.7	44.9	67.3	89.7	36.4	54.6	72.8		
60		27.7	41.6	55.5	69.3	39.0	58.5	78.0	27.7	41.6	55.5	69.3	40.4	60.6	80.8	40.4	60.6	80.8	32.8	49.1	65.5		
30	132	52.9	79.4	95.0	95.0	74.5	95.0	95.0	52.9	79.4	95.0	95.0	77.1	95.0	95.0	77.1	95.0	95.0	62.5	93.8	95.0		
36		44.1	66.2	88.2	95.0	62.1	93.1	95.0	44.1	66.2	88.2	95.0	64.2	95.0	95.0	64.2	95.0	95.0	52.1	78.2	95.0		
42		37.8	56.7	75.6	94.5	53.2	79.8	95.0	37.8	56.7	75.6	94.5	55.1	82.6	95.0	55.1	82.6	95.0	44.7	67.0	89.4		
48		33.1	49.6	66.2	82.7	46.5	69.8	93.1	33.1	49.6	66.2	82.7	48.2	72.3	95.0	48.2	72.3	95.0	39.1	58.6	78.2		
54		29.4	44.1	58.8	73.5	41.4	62.1	82.7	29.4	44.1	58.8	73.5	42.8	64.2	85.7	42.8	64.2	85.7	34.7	52.1	69.5		
60		26.5	41.6	55.5	69.3	39.0	58.5	78.0	26.5	41.6	55.5	69.3	40.4	60.6	80.8	40.4	60.6	80.8	32.8	49.1	65.5		
30	138	50.6	76.0	95.0	95.0	71.2	95.0	95.0	50.6	76.0	95.0	95.0	73.7	95.0	95.0	73.7	95.0	95.0	59.8	89.7	95.0		
36		42.2	63.3	84.4	95.0	59.4	89.0	95.0	42.2	63.3	84.4	95.0	61.4	92.2	95.0	61.4	92.2	95.0	49.9	74.8	95.0		
42		36.2	54.3	72.3	90.4	50.9	76.3	95.0	36.2	54.3	72.3	90.4	52.7	79.0	95.0	52.7	79.0	95.0	42.7	64.1	85.5		
48		31.7	47.5	63.3	79.1	44.5	66.8	89.0	31.7	47.5	63.3	79.1	46.1	69.1	92.2	46.1	69.1	92.2	37.4	56.1	74.8		
54		28.1	42.2	56.3	70.3	39.6	59.4	79.1	28.1	42.2	56.3	70.3	41.0	61.4	81.9	41.0	61.4	81.9	33.2	49.9	66.5		
60		25.5	39.7	52.9	66.2	37.2	55.9	74.5	25.5	39.7	52.9	66.2	38.5	57.8	77.1	38.5	57.8	77.1	31.3	46.9	62.5		
30	144	48.5	72.8	95.0	95.0	68.3	95.0	95.0	48.5	72.8	95.0	95.0	70.7	95.0	95.0	70.7	95.0	95.0	57.3	86.0	95.0		
36		40.4	60.7	80.9	95.0	56.9	85.3	95.0	40.4	60.7	80.9	95.0	58.9	88.3	95.0	58.9	88.3	95.0	47.8	71.7	95.0		
42		34.7	52.0	69.3	86.7	48.8	73.1	95.0	34.7	52.0	69.3	86.7	50.5	75.7	95.0	50.5	75.7	95.0	41.0	61.4	81.9		
48		30.3	45.5	60.7	75.8	42.7	64.0	85.3	30.3	45.5	60.7	75.8	44.2	66.3	88.3	44.2	66.3	88.3	35.8	53.8	71.7		

3100 SYSTEM PARTS TABLE				
Item No.	P/N	DESCRIPTION	MATERIAL	MANUFACTURER
A 1	3201	HEAD / STILL / JAMB	6063-T6 ALUM / POLYAMIDE	TRULITE
A 2	3202	MULLION / INT. HORIZONTAL	6063-T6 ALUM / POLYAMIDE	TRULITE
A 3	3103	GLASS STOP	6063-T6 ALUM	TRULITE
A 4	3303	GLASS STOP COVER	6063-T6 ALUM	TRULITE
A 5	3304	OPEN BACK GLASS STOP	6063-T6 ALUM	TRULITE
A 6	3003	GLASS STOP	6063-T6 ALUM	TRULITE
A 7	3103X	GLASS STOP	6063-T6 ALUM	TRULITE
A 8	3103Z	GLASS STOP	6063-T6 ALUM	TRULITE
A 9	3204CLIP	SHEAR BLOCK	6063-T6 ALUM	TRULITE
A 10	3204	ALUMINUM REINF.	6063-T6 ALUM	TRULITE
B 1	H62J	SET. BLOCK FOR 1-5/16" GLASS	EPDM	TRULITE
B 2	H62G	SET. BLOCK FOR 9/16" GLASS	EPDM	TRULITE
B 3	RG-1	EXT. GLAZING GASKET	EPDM	TRULITE
B 4	RG-2	EXT. GLAZING GASKET (USE ON INTERLAYER OPTION #4)	EPDM	TRULITE
C 1	ST320	REINFORCEMENT	STEEL, GR. 50	VARIES
C 2	V2108	GLAZING TAPE	FOAM TAPE	VARIES
C 3	—	DOWSIL 995	SILICONE	DOW
C 4	—	DOWSIL 795	SILICONE	DOW
C 5	—	DOWSIL 121	SILICONE	DOW
C 6	—	DOWSIL 983	SILICONE	DOW
C 7	—	ALUMINUM GLASS SPACER	ALUMINUM	VARIES
D 1	23233	ASSEMBLY SCREWS	STEEL (ZINC COATED), GR. 5	VARIES
D 2	23163	RETENTION SCREW @ REINF.	STEEL (ZINC COATED)	VARIES



SERIES 3200 THERMAL STOREFRONT SYSTEM

NOTES:

1. GLASS NOT SHOWN FOR CLARITY.
2. FRAME AND PANEL CORNERS, INSTALLATION SCREWS TO BE SEALED WITH CLEAR SEALANT.
3. FRAME DETAIL ABOVE SHOWS CONNECTIONS OF HORIZONTALS MEMBERS TO VERTICAL MEMBERS. JAMBS AND MULLIONS CAN BE WITH OR WITHOUT REINFORCEMENTS. SEE SHEETS 4 & 5 FOR OPTIONS.



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PRODUCT:

3200 Thermal Impact
Storefront System
HVHZ - LMI



REVN	DATE/REMARKS
1	10/19/2024 : LEVEL "E" IMPACT QUALIFICATION
2	02/10/2025 : ADD'L GLASS QUALIFICATIONS

ENGINEER:



En3 Engineering & Consultancy

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

STAMP:



FLORIDA PRODUCT APPROVAL:

FL45204

DATE: JAN. 22, 2025

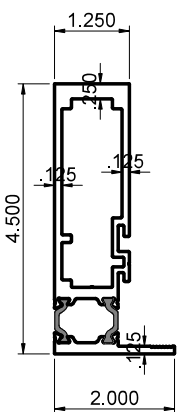
DRAWN: Bobi CHK: ESN

DRWG. No: 23FL-102 SCALE: NTS

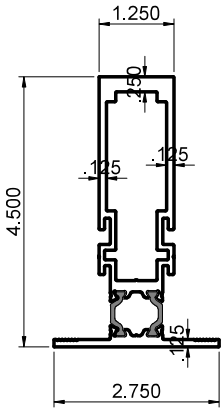
SHEET NO.:

10 of 11

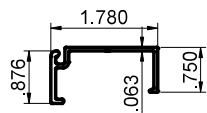
3200 PARTS TABLE



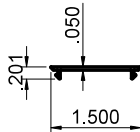
A1) 3201 - HEAD/SILL/JAMB



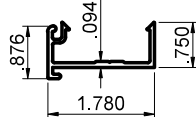
A2) 3202 INT. VERTICAL/HORIZONTAL



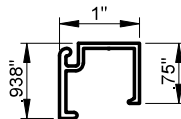
A3) 3103 - GLASS STOP



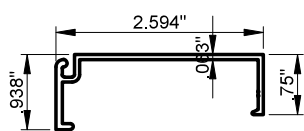
A4) 3303 GLASS STOP COVER



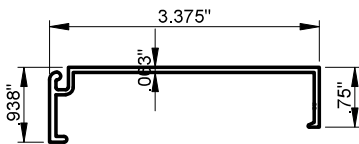
A5) 3304 OPEN BACK GLASS STOP



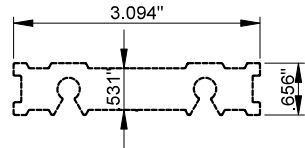
A6) 3003 GLASS STOP



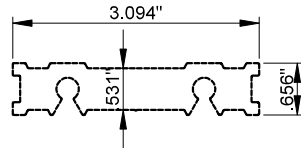
A7) 3103X GLASS STOP



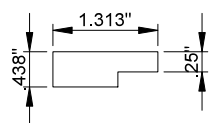
A8) 3103Z - GLASS STOP



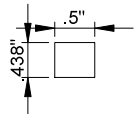
A9) 3204CLIP - SHEAR BLOCK



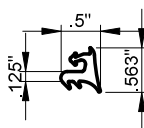
A10) 3204 - ALUM. REINF.



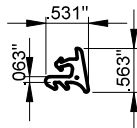
B1) H62J - SETTING BLOCK



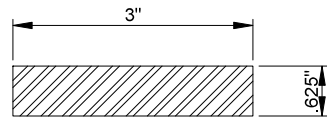
B2) H62G - SETTING BLOCK



B3) RG-1 EXT. GLAZING GASKET



B4) RG-2 EXT. GLAZING GASKET
(USE ON INTERLAYER OPTION #4)



C1) ST320 - STEEL REINF. (GR. 50)



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HVHZ - LMI



REVN	DATE/REMARKS
1	10/19/2024 : LEVEL "E" IMPACT QUALIFICATION
2	02/10/2025 : ADD'L GLASS QUALIFICATIONS

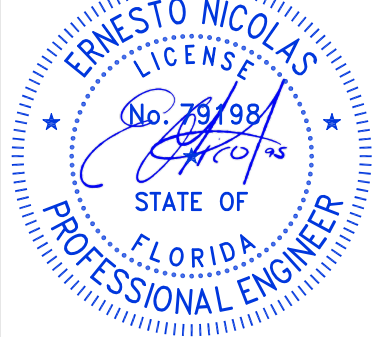
ENGINEER:



En3 Engineering & Consultancy

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

STAMP:



FLORIDA PRODUCT APPROVAL:

FL45204

DATE: JAN. 22, 2025

DRAWN: Bobi CHK: ESN

DRWG. No: 23FL-102 SCALE: NTS

SHEET NO.:

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