

TRULITE GLASS & ALUMINUM SOLUTIONS

SERIES 3000 IMPACT RESISTANT 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 TO THE FOLLOWING STANDARDS:
 - TAS 202-94 (ASTM E283, ASTM E330, ASTM E331)
 - TAS 201-94 (ASTM 1996)
 - TAS 203-94 (ASTM E 1886)
2.

SERIES 3000 RESISTOR ALUMINUM STOREFRONT WAS TESTED TO COMPLY UP TO MISSILE LEVEL "E" (80FT/SEC) IMPACT AND QUALIFIED FOR USE ON ESSENTIAL FACILITIES.
3.

THIS STOREFRONT SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.
4.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.
5.

THE MAIN STRUCTURE WHERE THIS STOREFRONT SYSTEM WILL BE INSTALLED MUST BE CAPABLE OF SUPPORTING ALL THE LOADS IMPOSED BY THIS STOREFRONT SYSTEM.
6.

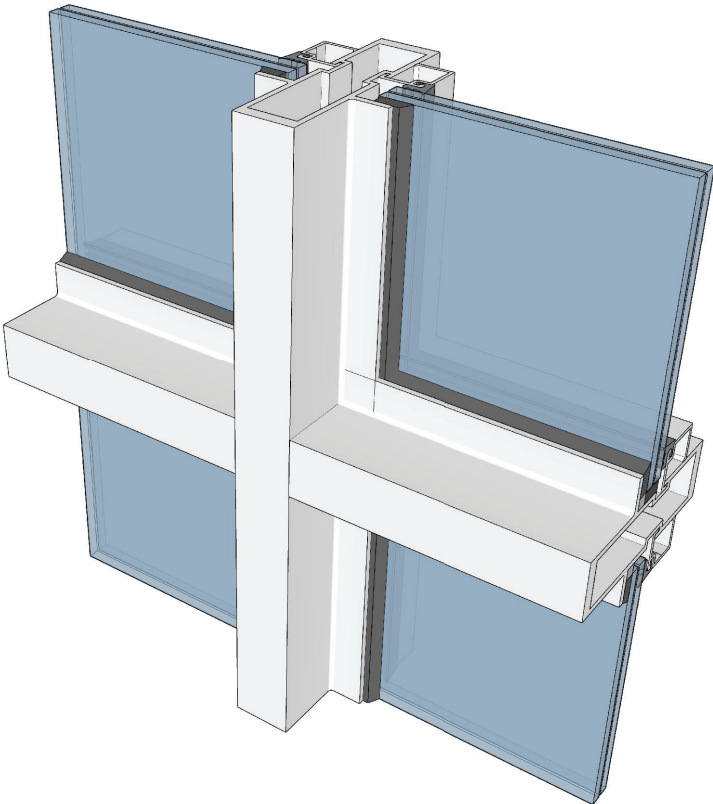
ANCHORS SHALL BE AS LISTED. SPACED AS SHOWN ON DETAILS. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS REQUIRED. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR INSTALLATION THROUGH METAL FRAME, PROVIDE 3 THREADS MINIMUM PENETRATION BEYOND 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.
7.

INSTALLATION ANCHORS MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
8.

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.
9.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.
10.

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



11.

ULTIMATE LOAD OBTAINED FROM APPLICABLE ASCE 7 STANDARD MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO THE DESIGN LOAD CAPACITY IN THIS DOCUMENT. THE DESIGN LOAD CAPACITY SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.
12.

GASKET USED IN THIS FENESTRATION PRODUCT ARE IN COMPLIANCE WITH ASTM STANDARD C864.

INSTRUCTIONS FOR USE:

1.

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

SEE TABLE ON SHEET 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
3.

CHECK CAPACITY OF INTERMEDIATE VERTICAL/MULLION AND DOOR JAMB/MULLION ON SHEET 6. DOUBLE DOOR JAMB CAPACITIES SHALL BE AS PER TABLES ON SHEETS 7 TO 9 FOR A GIVEN SPACING AND HEIGHT. THE CAPACITY SHOULD BE EQUAL OR GREATER THAN THE DESIGN LOAD.
4.

USING TABLES ON SHEETS 11 & 12 SELECT MULLION/JAMB ANCHOR OPTIONS. FOR DOUBLE DOOR JAMB SEE SHEET 15. DESIGN RATING MUST BE EQUAL OR GREATER THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
5.

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

ABBREVIATIONS:

DLO or D.L.O. - DAYLIGHT OPENING
TYP. - TYPICAL
W - WIDTH
H - HEIGHT
TRIBUT. - TRIBUTARY
FH - FRAME HEIGHT
SLW - SIDELITE WIDTH
DOW - DOOR OPENING WIDTH
DOH - DOOR OPENING HEIGHT
DP - DESIGN PRESSURE
NTS - 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 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.



GLASS & ALUMINUM SOLUTIONS™

<http://www.trulite.com>

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

PRODUCT:

**3000 Impact
Storefront System**

LMI - HVHZ

Resistor

BLAST & STORM PROTECTION™

REVN	DATE/REMARKS
1	10/19/24 : LEVEL 'E' IMPACT QUALIFICATION

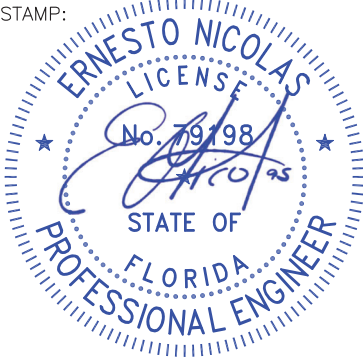
ENGINEER:



En3 Engineering & Consultancy

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

STAMP:



FLORIDA PRODUCT APPROVAL:

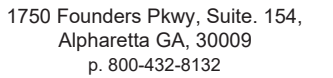
FL46552

DATE: FEBRUARY 8, 2024

DRAWN: Erick	CHK: ESN
DRWG. No: 24FL-101	SCALE: NTS

SHEET NO.:

1 of 17



3000 Impact
Storefront System
LMI - HVHZ

REV#	DATE/REMARKS
1	10/19/24 : LEVEL 'E' IMPACT QUALIFICATION

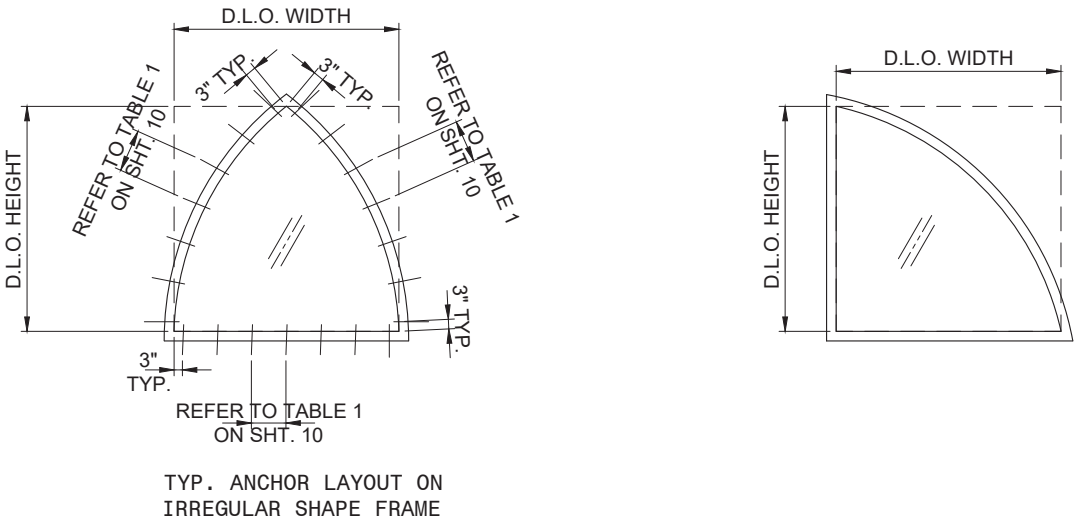
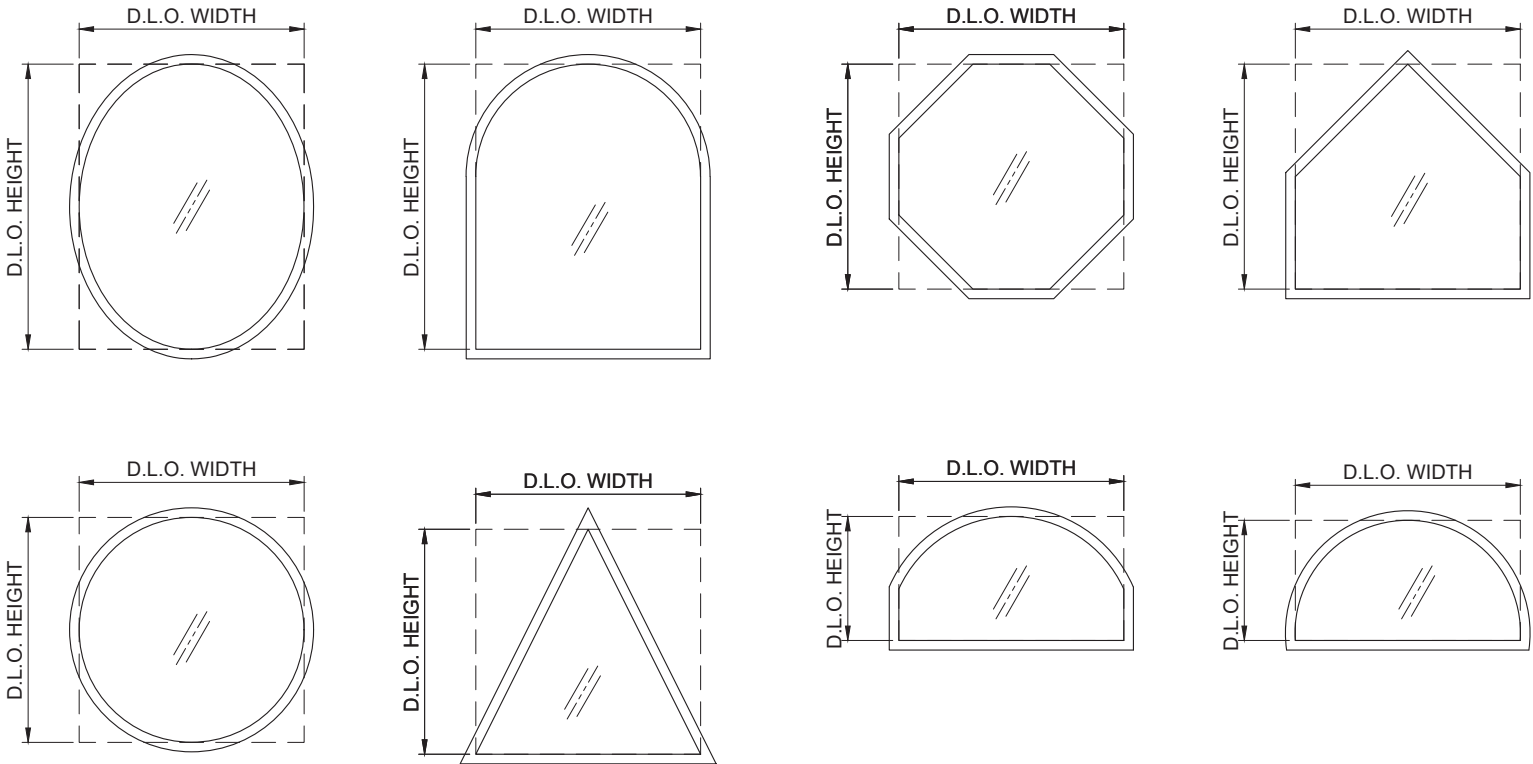
950 SW 135th Way Sunrise,
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Email: en3.engconsul@gmail.com

A circular blue ink seal for a Professional Engineer in the State of Florida. The outer ring contains the text "ERNESTO NICOLAS" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside the ring, the word "LICENSE" is at the top and "STATE OF FLORIDA" is at the bottom. In the center, the license number "No. 791188" is stamped, with a handwritten signature in blue ink written over it.

FL46552

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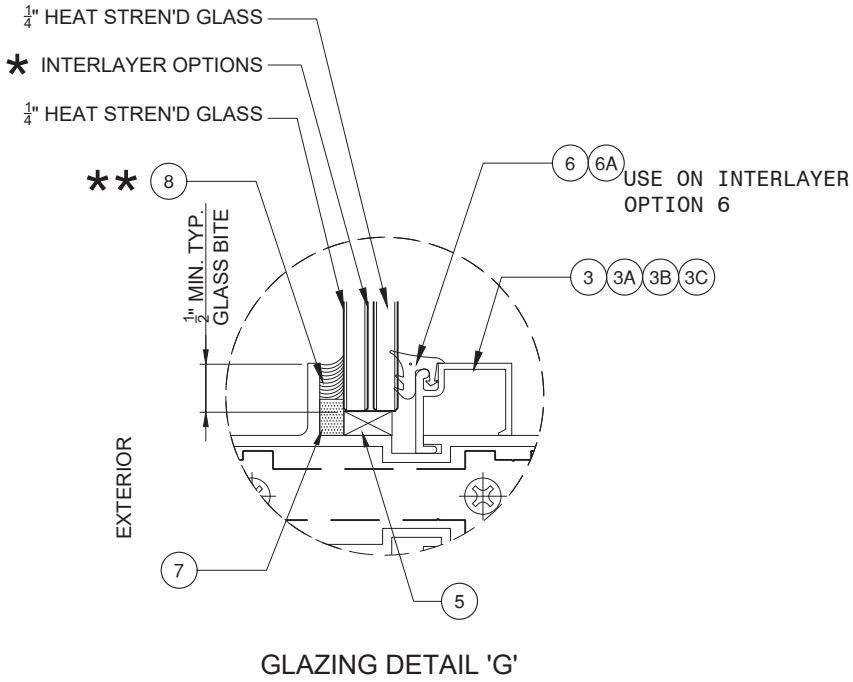
IRREGULAR FRAME SHAPE OPTIONS

NOTE:

ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPE. SINGLE LITES MAY BE INSTALLED VERTICALLY AS SHOWN ABOVE OR HORIZONTALLY.

FOR ALTERNATES SHAPES LIMIT MAX. LOADS TO ±90.0 PSF
SEE SHEET 4 FOR D.L.O. WIDTHS AND HEIGHTS.

REFER TO TABLE 1 ON SHT. 10 FOR ANCHOR TYPE & SPACING. REFERENCE 'MULLION SPACING' AS THE EQUIVALENT MAXIMUM ORTHAGONAL DIMENSION.



- ★★ SILICONE SEALANT OPTIONS:
- DOWSIL 995
 - DOWSIL 983
 - GE ULTRAGLAZE SSG4000
 - TREMCO PROGLAZE SSG

- ★ INTERLAYER OPTIONS:
1. 0.090" SAFLEX PVB CLEAR AND COLOR GLASS INTERLAYERS BY EASTMAN CHEMICAL COMPANY.
 2. 0.100" SAFLEX HP CLEAR AND COLOR GLASS INTERLAYERS BY EASTMAN CHEMICAL COMPANY.
 3. 0.090" SENTRYGLAS INTERLAYER BY KURARAY AMERICA INC.
 4. 0.090" SUPER TOUGH PVB INTERLAYER BY EVERLAM .
 5. 0.090" LAM50 PVB INTERLAYER BY EVERLAM.
 6. 0.180" SENTRYGLAS INTERLAYER BY KURARAY AMERICA INC. (LEVEL 'E')

GLAZING OPTIONS

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p. 800-432-8132

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LMI - HVHZ

BLAST & STORM PROTECTION™

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DRAWN: Erick	CHK: ESN
DRWG. No: 24FL-101	SCALE: NTS

SHEET NO.:

3 of 17

GLASS LOAD CAPACITY (psf)													
MAX. DLO (in)		G-1		G-2		G-3		G-4		G-5		G-6	
		Ext.	Int.	Ext.	Int.	Ext.	Int.	Ext.	Int.	Ext.	Int.	Ext.	Int.
Width	Height	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)
36	92	87	87	100	100	100	100	70	85	65	75	85	85
39		87	87	100	100	100	100	70	85	65	75	85	85
42		87	87	100	100	100	100	70	85	-	-	85	85
45		87	87	100	100	100	100	70	85	-	-	85	85
48		87	87	100	100	100	100	-	-	-	-	85	85
51		87	87	100	100	100	100	-	-	-	-	85	85
54		87	87	100	100	100	100	-	-	-	-	85	85
57		87	87	100	100	100	100	-	-	-	-	85	85
60		87	87	100	100	100	100	-	-	-	-	85	85
63		87	87	100	100	100	100	-	-	-	-	-	-
66		87	87	100	100	100	100	-	-	-	-	-	-
69		87	87	100	100	100	100	-	-	-	-	-	-
72		87	87	100	100	100	100	-	-	-	-	-	-
36	98	87	87	100	100	100	100	70	85	65	75	85	85
39		87	87	100	100	100	100	70	85	65	75	85	85
42		87	87	100	100	100	100	70	85	-	-	85	85
45		87	87	100	100	100	100	-	-	-	-	85	85
48		87	87	100	100	100	100	-	-	-	-	85	85
51		87	87	100	100	100	100	-	-	-	-	85	85
54		87	87	100	100	100	100	-	-	-	-	85	85
57		87	87	100	100	100	100	-	-	-	-	-	-
60		87	87	100	100	100	100	-	-	-	-	-	-
63		87	87	100	100	100	100	-	-	-	-	-	-
66		87	87	100	100	100	100	-	-	-	-	-	-
69		87	87	100	100	-	-	-	-	-	-	-	-
36	104	87	87	100	100	100	100	70	85	65	75	85	85
39		87	87	100	100	100	100	70	85	-	-	85	85
42		87	87	100	100	100	100	-	-	-	-	85	85
45		87	87	100	100	100	100	-	-	-	-	85	85
48		87	87	100	100	100	100	-	-	-	-	85	85
51		87	87	100	100	100	100	-	-	-	-	85	85
54		87	87	100	100	100	100	-	-	-	-	-	-
57		87	87	100	100	100	100	-	-	-	-	-	-
60		87	87	100	100	100	100	-	-	-	-	-	-
63		87	87	100	100	100	100	-	-	-	-	-	-
66		87	87	100	100	100	100	-	-	-	-	-	-
69		87	87	100	100	-	-	-	-	-	-	-	-
36	110	87	87	100	100	100	100	70	85	-	-	85	85
39		87	87	100	100	100	100	-	-	-	-	85	85
42		87	87	100	100	100	100	-	-	-	-	85	85
45		87	87	100	100	100	100	-	-	-	-	85	85
48		87	87	100	100	100	100	-	-	-	-	85	85
51		87	87	100	100	100	100	-	-	-	-	-	-
54		87	87	100	100	100	100	-	-	-	-	-	-
57		87	87	100	100	100	100	-	-	-	-	-	-
60		87	87	100	100	100	100	-	-	-	-	-	-
36	116	87	87	100	100	100	100	-	-	-	-	85	85
39		87	87	100	100	100	100	-	-	-	-	85	85
42		87	87	100	100	100	100	-	-	-	-	85	85
45		87	87	100	100	100	100	-	-	-	-	85	85
48		87	87	100	100	100	100	-	-	-	-	-	-
51		87	87	100	100	100	100	-	-	-	-	-	-
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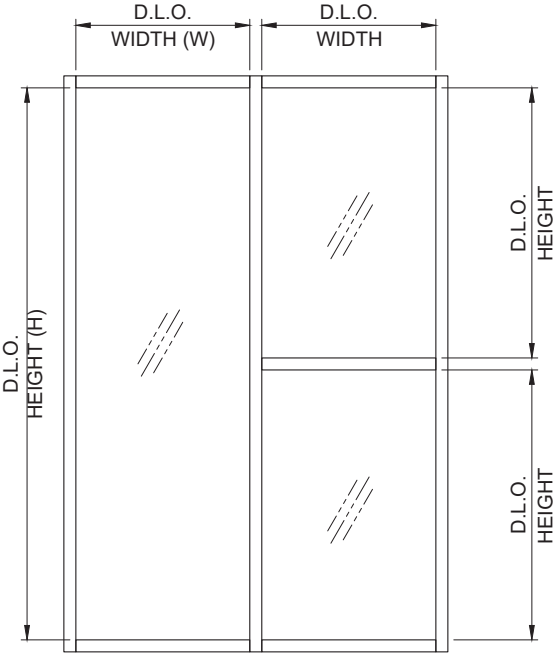
GLASS LOAD CAPACITIES

REFER TO ELEV. 1

GLASS LOAD CAPACITY (psf)													
MAX. DLO (in)		G-1		G-2		G-3		G-4		G-5		G-6	
		Ext.	Int.	Ext.	Int.	Ext.	Int.	Ext.	Int.	Ext.	Int.	Ext.	Int.
Width	Height	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)
36	122	87	87	100	100	100	100	-	-	-	-	85	85
39		87	87	100	100	100	100	-	-	-	-	85	85
42		87	87	100	100	100	100	-	-	-	-	85	85
45		87	87	100	100	100	100	-	-	-	-	85	85
48		87	87	100	100	100	100	-	-	-	-	-	-
51		87	87	100	100	100	100	-	-	-	-	-	-
36	128	87	87	100	100	100	100	-	-	-	-	85	85
39		87	87	100	100	100	100	-	-	-	-	85	85
42		87	87	100	100	100	100	-	-	-	-	85	85
45		87	87	100	100	100	100	-	-	-	-	-	-
48		87	87	100	100	100	100	-	-	-	-	-	-
51		87	87	100	100	100	100	-	-	-	-	-	-
36	134	87	87	100	100	100	100	-	-	-	-	85	85
39		87	87	100	100	100	100	-	-	-	-	85	85
42		87	87	100	100	100	100	-	-	-	-	-	-
45		87	87	100	100	100	100	-	-	-	-	-	-
48		87	87	100	100	100	100	-	-	-	-	-	-
51		87	87	100	100	100	100	-	-	-	-	-	-
36	140	87	87	100	100	100	100	-	-	-	-	85	85
39		87	87	100	100	100	100	-	-	-	-	85	85
42		87	87	100	100	100	100	-	-	-	-	-	-
45		87	87	100	100	100	100	-	-	-	-	-	-
48		87	87	100	100	-	-	-	-	-	-	-	-

NOTE: GLASS TYPE GUIDE FOR GLASS LOAD CAPACITY

REFER TO GLAZING DET. ON SHT. 3 → **G - #** → REFER TO SHT. 3 FOR INTERLAYER



ELEVATION 1

- 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 FBC CHAPTER 24. GLASS SETTING BLOCKS SHALL BE LOCATED AT 1/8 OF SPAN FOR HORIZONTAL MEMBER LENGTH ≤ 60" AND AT 4" FROM ENDS FOR SPAN > 60".
 - OTHER GLASS SIZES ARE QUALIFIED AS LONG AS EQUAL OR LESS THAN TESTED AREA.



GLASS & ALUMINUM SOLUTIONS™

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3000 Impact
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LMI - HVHZ



BLAST & STORM PROTECTION™

REVN	DATE/REMARKS
1	10/19/24 : LEVEL 'E' IMPACT QUALIFICATION

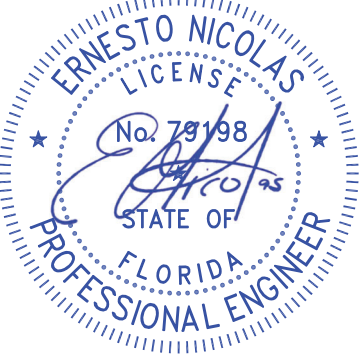
ENGINEER:



En3 Engineering & Consultancy

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

STAMP:



FLORIDA PRODUCT APPROVAL:

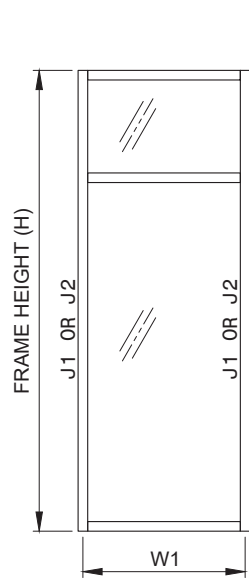
FL46552

DATE: FEBRUARY 8, 2024

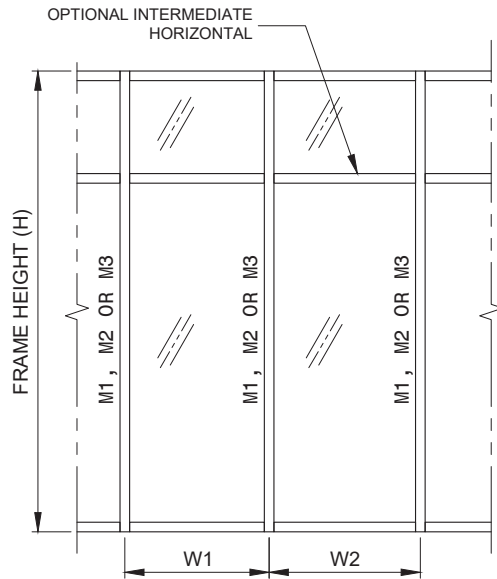
DRAWN: Erick CHK: ESN

DRWG. No: 24FL-101 SCALE: NTS

SHEET NO.:
4 of 17

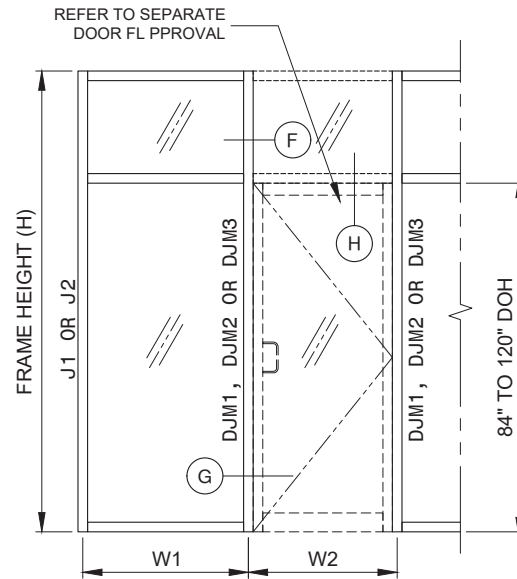


WIDTH (W) = W1 (JAMB)

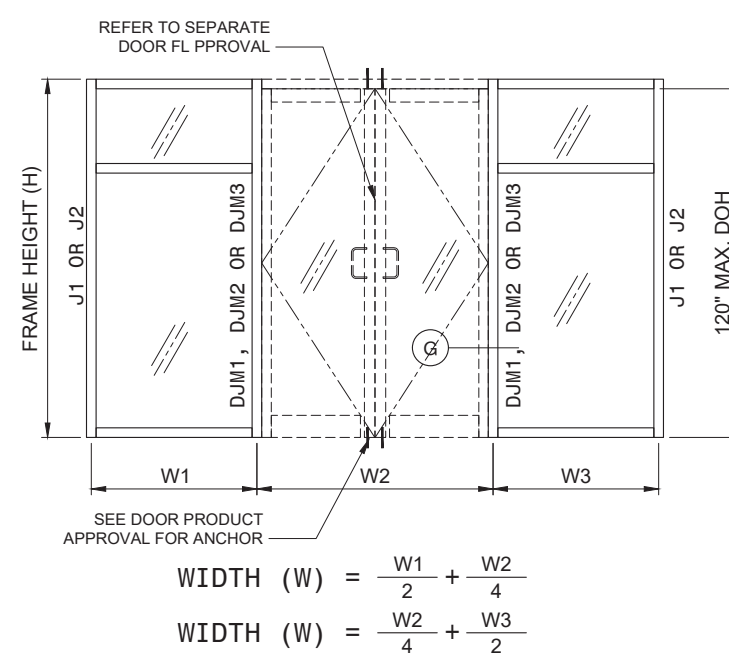


ELEVATION 2

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

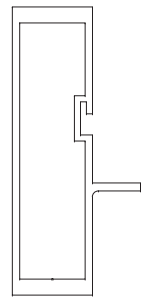


ELEVATION 3



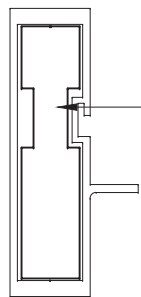
WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$

WIDTH (W) = $\frac{W2}{4} + \frac{W3}{2}$



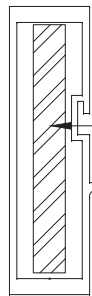
J1/DJM1

PART NO.	Ix (in ⁴)
3001	4.098



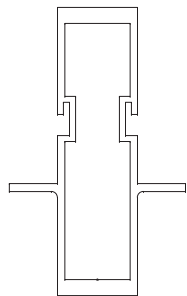
J2/DJM2

PART NO.	Ix (in ⁴)
3001	4.098
3004A	4.473
TOTAL (IN ALUM.)	8.571



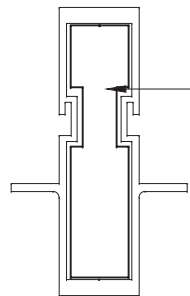
DJM3

PART NO.	Ix (in ⁴)
3001	4.098
ST300	2.424 x 2.9
TOTAL (IN ALUM.)	11.127



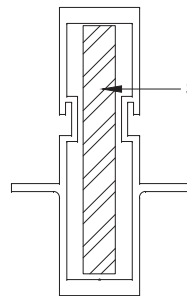
M1

PART NO.	Ix (in ⁴)
3002	4.143



M2

PART NO.	Ix (in ⁴)
3002	4.143
3004	4.473
TOTAL (IN ALUM.)	8.616



M3

PART NO.	Ix (in ⁴)
3002	4.143
ST300	2.424 x 2.9
TOTAL (IN ALUM.)	11.172



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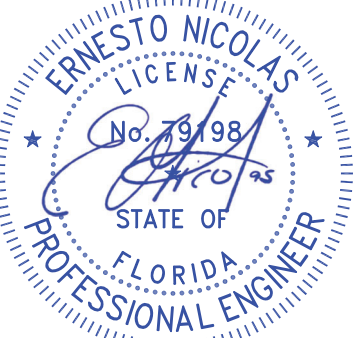
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DATE: FEBRUARY 8, 2024

DRAWN: Erick	CHK: ESN
DRWG. No: 24FL-101	SCALE: NTS

SHEET NO.:

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JAMB/MULLION CAPACITIES (psf)							
Dimensions (in)		M1/DJM1		M2/DJM2/J1		M3/DJM3/J2	
W	H	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
54	78	87.5	87.5	100.0	100.0	100.0	100.0
60	78	86.7	86.7	100.0	100.0	100.0	100.0
66	78	78.8	78.8	100.0	100.0	100.0	100.0
72	78	72.2	72.2	100.0	100.0	100.0	100.0
48	84	87.5	87.5	100.0	100.0	100.0	100.0
54	84	78.7	78.7	100.0	100.0	100.0	100.0
60	84	70.8	70.8	100.0	100.0	100.0	100.0
66	84	64.4	64.4	100.0	100.0	100.0	100.0
72	84	59.0	59.0	100.0	100.0	100.0	100.0
36	90	87.5	87.5	100.0	100.0	100.0	100.0
42	90	82.2	82.2	100.0	100.0	100.0	100.0
48	90	72.0	72.0	100.0	100.0	100.0	100.0
54	90	64.0	64.0	100.0	100.0	100.0	100.0
60	90	57.6	57.6	100.0	100.0	100.0	100.0
66	90	52.3	52.3	100.0	100.0	100.0	100.0
72	90	48.0	48.0	96.0	96.0	100.0	100.0
30	96	87.5	87.5	100.0	100.0	100.0	100.0
36	96	79.1	79.1	100.0	100.0	100.0	100.0
42	96	67.8	67.8	100.0	100.0	100.0	100.0
48	96	59.3	59.3	100.0	100.0	100.0	100.0
54	96	52.7	52.7	100.0	100.0	100.0	100.0
60	96	47.4	47.4	94.9	94.9	100.0	100.0
66	96	43.1	43.1	86.3	86.3	100.0	100.0
72	96	39.5	39.5	79.1	79.1	100.0	100.0
24	102	87.5	87.5	100.0	100.0	100.0	100.0
30	102	79.1	79.1	100.0	100.0	100.0	100.0
36	102	65.9	65.9	100.0	100.0	100.0	100.0
42	102	56.5	56.5	100.0	100.0	100.0	100.0
48	102	49.4	49.4	98.9	98.9	100.0	100.0
54	102	43.9	43.9	87.9	87.9	100.0	100.0
60	102	39.5	39.5	79.1	79.1	100.0	100.0
66	102	36.0	36.0	71.9	71.9	97.6	97.6
24	108	83.3	83.3	100.0	100.0	100.0	100.0
30	108	66.6	66.6	100.0	100.0	100.0	100.0
36	108	55.5	55.5	100.0	100.0	100.0	100.0
42	108	47.6	47.6	95.2	95.2	100.0	100.0
48	108	41.6	41.6	83.3	83.3	100.0	100.0
54	108	37.0	37.0	74.0	74.0	100.0	100.0
60	108	33.3	33.3	66.6	66.6	90.5	90.5
66	108	30.3	30.3	60.6	60.6	82.2	82.2

JAMB/MULLION LOAD CAPACITIES
REFER TO ELEVS. 2 & 3

JAMB/MULLION CAPACITIES (psf)							
Dimensions (in)		M1/DJM1		M2/DJM2/J1		M3/DJM3/J2	
W	H	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	114	70.8	70.8	100.0	100.0	100.0	100.0
30	114	56.7	56.7	100.0	100.0	100.0	100.0
36	114	47.2	47.2	94.4	94.4	100.0	100.0
42	114	40.5	40.5	80.9	80.9	100.0	100.0
48	114	35.4	35.4	70.8	70.8	96.2	96.2
54	114	31.5	31.5	63.0	63.0	85.5	85.5
60	114	28.3	28.3	56.7	56.7	76.9	76.9
24	120	60.7	60.7	100.0	100.0	100.0	100.0
30	120	48.6	48.6	97.2	97.2	100.0	100.0
36	120	40.5	40.5	81.0	81.0	100.0	100.0
42	120	34.7	34.7	69.4	69.4	94.2	94.2
48	120	30.4	30.4	60.7	60.7	82.4	82.4
54	120	27.0	27.0	54.0	54.0	73.3	73.3
60	120	24.3	24.3	48.6	48.6	66.0	66.0
24	126	52.5	52.5	100.0	100.0	100.0	100.0
30	126	42.0	42.0	83.9	83.9	100.0	100.0
36	126	35.0	35.0	69.9	69.9	95.0	95.0
42	126	30.0	30.0	59.9	59.9	81.4	81.4
48	126	26.2	26.2	52.5	52.5	71.2	71.2
54	126	23.3	23.3	46.6	46.6	63.3	63.3
24	132	45.6	45.6	91.2	91.2	100.0	100.0
30	132	36.5	36.5	73.0	73.0	99.1	99.1
36	132	30.4	30.4	60.8	60.8	82.6	82.6
42	132	26.1	26.1	52.1	52.1	70.8	70.8
48	132	22.8	22.8	45.6	45.6	61.9	61.9
54	132	20.3	20.3	40.6	40.6	55.1	55.1
24	138	39.9	39.9	79.9	79.9	100.0	100.0
30	138	31.9	31.9	63.9	63.9	86.7	86.7
36	138	26.6	26.6	53.2	53.2	72.3	72.3
42	138	-	-	45.6	45.6	61.9	61.9
48	138	-	-	39.9	39.9	54.2	54.2
24	144	35.1	35.1	70.3	70.3	95.4	95.4
30	144	28.1	28.1	56.2	56.2	76.3	76.3
36	144	23.4	23.4	46.9	46.9	63.6	63.6
42	144	-	-	40.2	40.2	54.5	54.5
48	144	-	-	35.1	35.1	47.7	47.7

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<http://www.trulite.com>

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

PRODUCT:

3000 Impact
Storefront System
LMI - HVHZ

Resistor

BLAST & STORM PROTECTION™

REVN	DATE/REMARKS
1	10/19/24 : LEVEL 'E' IMPACT QUALIFICATION

ENGINEER:

En3 Engineering & Consultancy

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

STAMP:

ERNESTO NICOLAS

LICENSE

No. 79198

STATE OF

FLORIDA

PROFESSIONAL ENGINEER

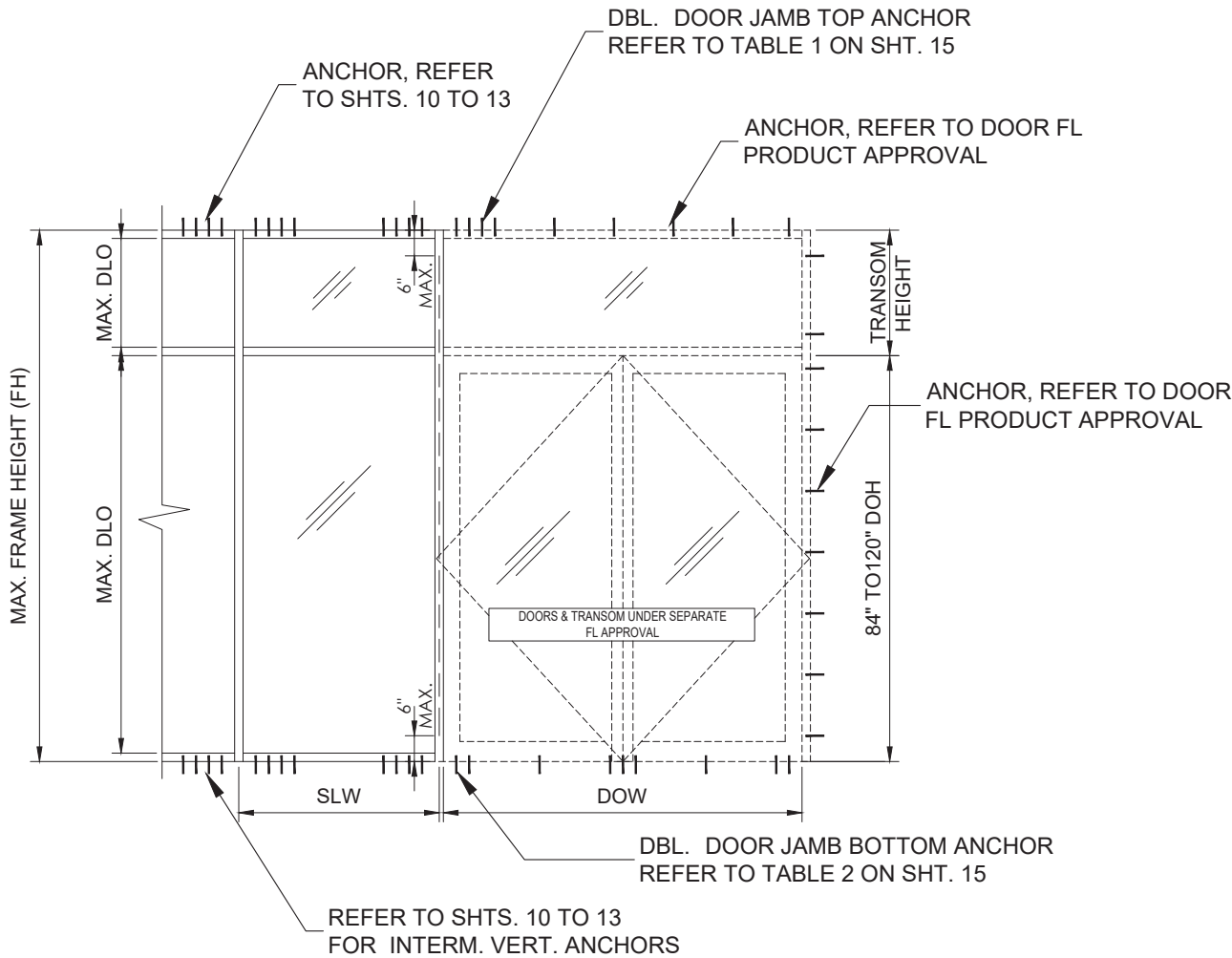
FLORIDA PRODUCT APPROVAL:

FL46552

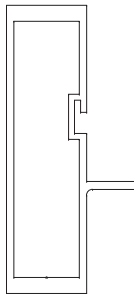
DATE: FEBRUARY 8, 2024	
DRAWN: Erick	CHK: ESN
DRWG. No: 24FL–101	SCALE: NTS

SHEET NO.:

6 of 17

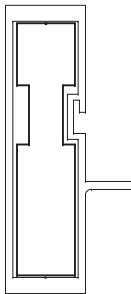


ELEVATION 4



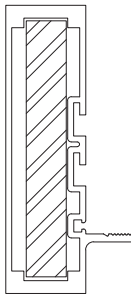
DJ1

PART NO.	Ix (in ⁴)
3001	4.098



DJ2

PART NO.	Ix (in ⁴)
3001	4.098
3004A	4.473
TOTAL (IN ALUM.)	8.571



DJ3

PART NO.	Ix (in ⁴)
3001	4.098
ST300	2.424 x 2.9
TOTAL (IN ALUM.)	11.127

DOUBLE DOOR JAMB CAPACITY (psf)					
Nominal Dimensions				DJ1	
FH	SLW	DOW	DOH	EXT (+)	INT. (-)
102	24	72	84	60.9	60.9
102	30	72	84	56.7	56.7
102	36	72	84	53.1	53.1
102	42	72	84	49.9	49.9
102	48	72	84	47.0	47.0
102	54	72	84	44.5	44.5
102	60	72	84	42.2	42.2
108	24	72	84	50.7	50.7
108	30	72	84	47.1	47.1
108	36	72	84	44.0	44.0
108	42	72	84	41.3	41.3
108	48	72	84	38.9	38.9
108	54	72	84	36.7	36.7
108	60	72	84	34.8	34.8
114	24	72	84	41.7	41.7
114	30	72	84	38.8	38.8
114	36	72	84	36.3	36.3
114	42	72	84	34.1	34.1
114	48	72	84	32.2	32.2
114	54	72	84	30.5	30.5
120	24	72	84	34.8	34.8
120	30	72	84	32.4	32.4
120	36	72	84	30.4	30.4
120	42	72	84	28.6	28.6
120	48	72	84	27.0	27.0
126	24	72	84	29.4	29.4
126	30	72	84	27.5	27.5
126	36	72	84	25.8	25.8
132	24	72	84	25.2	25.2
102	30	72	90	61.0	61.0
102	36	72	90	56.8	56.8
102	42	72	90	53.2	53.2
102	48	72	90	50.0	50.0
102	54	72	90	47.1	47.1
102	60	72	90	44.6	44.6
108	24	72	90	53.6	53.6
108	30	72	90	49.6	49.6
108	36	72	90	46.2	46.2
108	42	72	90	43.2	43.2
108	48	72	90	40.6	40.6
108	54	72	90	38.2	38.2
108	60	72	90	36.2	36.2
114	24	72	90	43.6	43.6
114	30	72	90	40.5	40.5
114	36	72	90	37.8	37.8
114	42	72	90	35.4	35.4
114	48	72	90	33.3	33.3
114	54	72	90	31.5	31.5
120	24	72	90	36.1	36.1
120	30	72	90	33.6	33.6
120	36	72	90	31.4	31.4
120	42	72	90	29.5	29.5
120	48	72	90	27.8	27.8

DOUBLE DOOR JAMB CAPACITY (psf)					
Nominal Dimensions				DJ1	
FH	SLW	DOW	DOH	EXT (+)	INT. (-)
126	24	72	90	30.3	30.3
126	30	72	90	28.3	28.3
126	36	72	90	26.5	26.5
132	24	72	90	25.8	25.8
108	24	72	96	57.1	57.1
108	30	72	96	52.6	52.6
108	36	72	96	48.8	48.8
108	42	72	96	45.4	45.4
108	48	72	96	42.5	42.5
108	54	72	96	40.0	40.0
108	60	72	96	37.7	37.7
114	24	72	96	46.0	46.0
114	30	72	96	42.5	42.5
114	36	72	96	39.6	39.6
114	42	72	96	37.0	37.0
114	48	72	96	34.7	34.7
114	54	72	96	32.7	32.7
120	24	72	96	37.8	37.8
120	30	72	96	35.0	35.0
120	36	72	96	32.7	32.7
120	42	72	96	30.6	30.6
120	48	72	96	28.8	28.8
126	24	72	96	31.5	31.5
126	30	72	96	29.3	29.3
126	36	72	96	27.4	27.4
126	42	72	96	25.7	25.7
132	24	72	96	26.6	26.6
102	30	72	102	71.8	71.8
114	24	72	102	48.9	48.9
114	30	72	102	45.0	45.0
114	36	72	102	41.7	41.7
114	42	72	102	38.9	38.9
114	48	72	102	36.4	36.4
114	54	72	102	34.2	34.2
120	24	72	102	39.8	39.8
120	30	72	102	36.8	36.8
120	36	72	102	34.2	34.2
120	42	72	102	31.9	31.9
120	48	72	102	30.0	30.0
126	24	72	102	32.9	32.9
126	30	72	102	30.5	30.5
126	36	72	102	28.4	28.4
126	42	72	102	26.6	26.6
132	24	72	102	27.6	27.6
132	30	72	102	25.7	25.7
120	24	72	108	42.2	42.2
120	30	72	108	38.8	38.8
120	36	72	108	36.0	36.0
120	42	72	108	33.5	33.5
120	48	72	108	31.3	31.3
126	24	72	108	34.6	34.6
126	30	72	108	32.0	32.0
126	36	72	108	29.7	29.7

DOUBLE DOOR JAMB LOAD CAPACITY

REFER TO ELEV. 4



GLASS & ALUMINUM SOLUTIONS™

<http://www.trulite.com>

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

PRODUCT:

3000 Impact
Storefront System
LMI - HVHZ


BLAST & STORM PROTECTION™

REVN	DATE/REMARKS
1	10/19/24 : LEVEL 'E' IMPACT QUALIFICATION

ENGINEER:



En3 Engineering & Consultancy

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

STAMP:



FLORIDA PRODUCT APPROVAL:

FL46552

DATE: FEBRUARY 8, 2024	
DRAWN: Erick	CHK: ESN
DRWG. No: 24FL-101	SCALE: NTS
SHEET NO.:	

DOUBLE DOOR JAMB CAPACITY (psf)					
Nominal Dimensions				DJ1	
FH	SLW	DOW	DOH	EXT (+)	INT. (-)
126	42	72	108	27.8	27.8
132	24	72	108	28.9	28.9
132	30	72	108	26.8	26.8
126	24	72	114	36.7	36.7
126	30	72	114	33.7	33.7
126	36	72	114	31.2	31.2
126	42	72	114	29.0	29.0
132	24	72	114	30.3	30.3
132	30	72	114	28.0	28.0
132	36	72	114	26.0	26.0
144	24	72	114	21.7	21.7
132	24	72	120	32.1	32.1
132	30	72	120	29.5	29.5
132	36	72	120	27.3	27.3
102	24	84	84	54.6	54.6
102	30	84	84	51.2	51.2
102	36	84	84	48.2	48.2
102	42	84	84	45.6	45.6
102	48	84	84	43.2	43.2
102	54	84	84	41.0	41.0
108	24	84	84	45.6	45.6
108	30	84	84	42.6	42.6
108	36	84	84	40.1	40.1
108	42	84	84	37.8	37.8
108	48	84	84	35.8	35.8
114	24	84	84	37.3	37.3
114	30	84	84	35.0	35.0
114	36	84	84	33.0	33.0
114	42	84	84	31.2	31.2
120	24	84	84	31.1	31.1
120	30	84	84	29.3	29.3
120	36	84	84	27.6	27.6
126	24	84	84	26.3	26.3
126	30	84	84	24.8	24.8
132	24	84	84	22.5	22.5
102	30	84	90	55.3	55.3
102	36	84	90	51.9	51.9
102	42	84	90	48.8	48.8
102	48	84	90	46.1	46.1
102	54	84	90	43.6	43.6
108	24	84	90	48.2	48.2
108	30	84	90	45.0	45.0
108	36	84	90	42.1	42.1
108	42	84	90	39.6	39.6
108	48	84	90	37.4	37.4
114	24	84	90	39.2	39.2
114	30	84	90	36.6	36.6
114	36	84	90	34.4	34.4
114	42	84	90	32.4	32.4
120	24	84	90	32.4	32.4
120	30	84	90	30.3	30.3
120	36	84	90	28.6	28.6

DOUBLE DOOR JAMB CAPACITY (psf)					
Nominal Dimensions				DJ1	
FH	SLW	DOW	DOH	EXT (+)	INT. (-)
126	24	84	90	27.2	27.2
126	30	84	90	25.5	25.5
132	24	84	90	23.1	23.1
108	24	84	96	51.6	51.6
108	30	84	96	47.9	47.9
108	36	84	96	44.7	44.7
108	42	84	96	41.9	41.9
108	48	84	96	39.4	39.4
114	24	84	96	41.4	41.4
114	30	84	96	38.6	38.6
114	36	84	96	36.1	36.1
114	42	84	96	34.0	34.0
120	24	84	96	33.9	33.9
120	30	84	96	31.7	31.7
120	36	84	96	29.8	29.8
126	24	84	96	28.2	28.2
126	30	84	96	26.5	26.5
114	24	84	102	44.2	44.2
114	30	84	102	41.0	41.0
114	36	84	102	38.2	38.2
114	42	84	102	35.8	35.8
120	24	84	102	35.8	35.8
120	30	84	102	33.4	33.4
120	36	84	102	31.2	31.2
126	24	84	102	29.6	29.6
126	30	84	102	27.6	27.6
120	24	84	108	38.1	38.1
120	30	84	108	35.4	35.4
120	36	84	108	33.0	33.0
126	24	84	108	31.2	31.2
126	30	84	108	29.0	29.0
132	24	84	108	26.0	26.0
126	24	84	114	33.1	33.1
126	30	84	114	30.7	30.7
132	24	84	114	27.3	27.3
132	24	84	120	29.0	29.0

DOUBLE DOOR JAMB CAPACITY (psf)					
Nominal Dimensions				DJ2	
FH	SLW	DOW	DOH	EXT (+)	INT. (-)
108	36	72	84	87.5	87.5
108	42	72	84	86.4	86.4
108	48	72	84	81.3	81.3
108	54	72	84	76.9	76.9
108	60	72	84	72.8	72.8
114	24	72	84	87.1	87.1
114	30	72	84	81.2	81.2
114	36	72	84	76.0	76.0
114	42	72	84	71.4	71.4
114	48	72	84	67.3	67.3
114	54	72	84	63.7	63.7
120	24	72	84	72.7	72.7
120	30	72	84	67.9	67.9
120	36	72	84	63.6	63.6
120	42	72	84	59.9	59.9
120	48	72	84	56.5	56.5
126	24	72	84	61.5	61.5
126	30	72	84	57.5	57.5
126	36	72	84	54.0	54.0
126	42	72	84	50.8	50.8
132	24	72	84	52.7	52.7
132	30	72	84	49.3	49.3
132	36	72	84	46.3	46.3
144	24	72	84	39.7	39.7
108	42	72	90	87.5	87.5
108	48	72	90	84.8	84.8
108	54	72	90	80.0	80.0
108	60	72	90	75.6	75.6
114	24	72	90	87.5	87.5
114	30	72	90	84.7	84.7
114	36	72	90	79.0	79.0
114	42	72	90	74.1	74.1
114	48	72	90	69.7	69.7
114	54	72	90	65.9	65.9
120	24	72	90	75.5	75.5
120	30	72	90	70.3	70.3
120	36	72	90	65.7	65.7
120	42	72	90	61.7	61.7
120	48	72	90	58.2	58.2
126	24	72	90	63.4	63.4
126	30	72	90	59.2	59.2
126	36	72	90	55.4	55.4
126	42	72	90	52.1	52.1
132	24	72	90	54.0	54.0
132	30	72	90	50.4	50.4
132	36	72	90	47.3	47.3
144	24	72	90	40.4	40.4
108	48	72	96	87.5	87.5
108	54	72	96	83.6	83.6
108	60	72	96	78.9	78.9
114	24	72	96	87.5	87.5
114	30	72	96	87.5	87.5

DOUBLE DOOR JAMB CAPACITY (psf)					
Nominal Dimensions				DJ2	
FH	SLW	DOW	DOH	EXT (+)	INT. (-)
114	36	72	96	82.8	82.8
114	42	72	96	77.4	77.4
114	48	72	96	72.6	72.6
114	54	72	96	68.4	68.4
120	24	72	96	79.0	79.0
120	30	72	96	73.3	73.3
120	36	72	96	68.3	68.3
120	42	72	96	64.0	64.0
120	48	72	96	60.2	60.2
126	24	72	96	65.9	65.9
126	30	72	96	61.3	61.3
126	36	72	96	57.3	57.3
126	42	72	96	53.8	53.8
132	24	72	96	55.7	55.7
132	30	72	96	51.9	51.9
132	36	72	96	48.6	48.6
138	24	72	96	47.7	47.7
138	30	72	96	44.5	44.5
144	24	72	96	41.2	41.2
114	24	72	102	87.5	87.5
114	30	72	102	87.5	87.5
114	36	72	102	87.2	87.2
114	42	72	102	81.3	81.3
114	48	72	102	76.0	76.0
114	54	72	102	71.5	71.5
120	24	72	102	83.2	83.2
120	30	72	102	76.9	76.9
120	36	72	102	71.5	71.5
120	42	72	102	66.8	66.8
120	48	72	102	62.7	62.7
126	24	72	102	68.8	68.8
126	30	72	102	63.8	63.8
126	36	72	102	59.5	59.5
126	42	72	102	55.7	55.7
132	24	72	102	57.8	57.8
132	30	72	102	53.7	53.7
132	36	72	102	50.2	50.2
144	24	72	102	42.3	42.3
120	24	72	108	87.5	87.5
120	30	72	108	81.2	81.2
120	36	72	108	75.2	75.2
120	42	72	108	70.0	70.0
120	48	72	108	65.5	65.5
126	24	72	108	72.4	72.4
126	30	72	108	66.9	66.9
126	36	72	108	62.2	62.2
126	42	72	108	58.1	58.1
132	24	72	108	60.4	60.4
132	30	72	108	56.0	56.0
132	36	72	108	52.1	52.1
144	24	72	108	43.7	43.7
126	24	72	114	76.7	76.7

DOUBLE DOOR JAMB CAPACITY (psf)					
Nominal Dimensions				DJ2	
FH	SLW	DOW	DOH	EXT (+)	INT. (-)
126	30	72	114	70.5	70.5
126	36	72	114	65.3	65.3
126	42	72	114	60.8	60.8
132	24	72	114	63.4	63.4
132	30	72	114	58.6	58.6
132	36	72	114	54.4	54.4
144	24	72	114	45.3	45.3
132	24	72	120	67.0	67.0
132	30	72	120	61.6	61.6
132	36	72	120	57.0	57.0
144	24	72	120	47.2	47.2
108	30	84	84	87.5	87.5
108	36	84	84	83.8	83.8
108	42	84	84	79.1	79.1
108	48	84	84	74.8	74.8
114	24	84	84	78.1	78.1
114	30	84	84	73.3	73.3
114	36	84	84	69.0	69.0
114	42	84	84	65.2	65.2
120	24	84	84	65.1	65.1
120	30	84	84	61.2	61.2
120	36	84	84	57.7	57.7
126	24	84	84	55.0	55.0
126	30	84	84	51.8	51.8
132	24	84	84	47.1	47.1
108	36	84	90	87.5	87.5
108	42	84	90	82.9	82.9
108	48	84	90	78.2	78.2
114	24	84	90	81.9	81.9
114	30	84	90	76.6	76.6
114	36	84	90	72.0	72.0
114	42	84	90	67.8	67.8
120	24	84	90	67.7	67.7
120	30	84	90	63.5	63.5
120	36	84	90	59.7	59.7
126	24	84	90	56.8	56.8
126	30	84	90	53.4	53.4
132	24	84	90	48.3	48.3
108	42	84	96	87.5	87.5
108	48	84	96	82.4	82.4
114	24	84	96	86.6	86.6
114	30	84	96	80.7	80.7
114	36	84	96	75.6	75.6
114	42	84	96	71.0	71.0
120	24	84	96	70.9	70.9
120	30	84	96	66.3	66.3
120	36	84	96	62.3	62.3
126	24	84	96	59.1	59.1
126	30	84	96	55.4	55.4
132	24	84	96	49.9	49.9
114	24	84	102	87.5	87.5
114	30	84	102	85.7	85.7

DOUBLE DOOR JAMB CAPACITY (psf)					
Nominal Dimensions				DJ2	
FH	SLW	DOW	DOH	EXT (+)	INT. (-)
114	36	84	102	79.9	79.9
114	42	84	102	74.9	74.9
120	24	84	102	74.9	74.9
120	30	84	102	69.8	69.8
120	36	84	102	65.3	65.3
126	24	84	102	61.9	61.9
126	30	84	102	57.8	57.8
132	24	84	102	51.9	51.9
120	24	84	108	79.7	79.7
120	30	84	108	73.9	73.9
120	36	84	108	68.9	68.9
126	24	84	108	65.3	65.3
126	30	84	108	60.7	60.7
132	24	84	108	54.3	54.3
126	24	84	114	69.3	69.3
126	30	84	114	64.2	64.2
132	24	84	114	57.2	57.2
132	24	84	120	60.6	60.6
102	42	96	84	87.5	87.5
108	24	96	84	86.4	86.4
108	30	96	84	81.4	81.4
108	36	96	84	76.9	76.9
114	24	96	84	70.8	70.8
114	30	96	84	66.8	66.8
120	24	96	84	58.9	58.9
108	24	96	90	87.5	87.5
108	30	96	90	86.1	86.1
108	36	96	90	81.1	81.1
114	24	96	90	74.3	74.3
114	30	96	90	69.9	69.9
120	24	96	90	61.4	61.4
108	30	96	96	87.5	87.5
108	36	96	96	86.2	86.2
114	24	96	96	78.8	78.8
114	30	96	96	73.9	73.9
120	24	96	96	64.4	64.4
108	36	96	102	87.5	87.5
114	24	96	102	84.2	84.2
114	30	96	102	78.7	78.7
120	24	96	102	68.2	68.2
120	24	96	108	72.7	72.7

DOUBLE DOOR JAMB CAPACITY (psf)					
Nominal Dimensions				DJ3	
FH	SLW	DOW	DOH	EXT (+)	INT. (-)
114	42	72	84	87.5	87.5
114	48	72	84	87.4	87.4
114	54	72	84	82.7	82.7
120	24	72	84	87.5	87.5
120	30	72	84	87.5	87.5
120	36	72	84	82.6	82.6
120	42	72	84	77.7	77.7
120	48	72	84	73.4	73.4
126	24	72	84	79.9	79.9
126	30	72	84	74.6	74.6
126	36	72	84	70.1	70.1
126	42	72	84	66.0	66.0
132	24	72	84	68.4	68.4
132	30	72	84	64.0	64.0
132	36	72	84	60.1	60.1
144	24	72	84	51.6	51.6
102	30	72	90	87.5	87.5
114	48	72	90	87.5	87.5
114	54	72	90	85.5	85.5
120	24	72	90	87.5	87.5
120	30	72	90	87.5	87.5
120	36	72	90	85.3	85.3
120	42	72	90	80.1	80.1
120	48	72	90	75.6	75.6
126	24	72	90	82.3	82.3
126	30	72	90	76.8	76.8
126	36	72	90	71.9	71.9
126	42	72	90	67.7	67.7
132	24	72	90	70.1	70.1
132	30	72	90	65.5	65.5
132	36	72	90	61.4	61.4
144	24	72	90	52.4	52.4
102	24	72	96	87.5	87.5
120	36	72	96	87.5	87.5
120	42	72	96	83.1	83.1
120	48	72	96	78.2	78.2
126	24	72	96	85.5	85.5
126	30	72	96	79.5	79.5
126	36	72	96	74.3	74.3
126	42	72	96	69.8	69.8
132	24	72	96	72.3	72.3
132	30	72	96	67.4	67.4
132	36	72	96	63.1	63.1
138	24	72	96	61.9	61.9
138	30	72	96	57.7	57.7
144	24	72	96	53.5	53.5
114	54	72	102	87.5	87.5
120	24	72	102	87.5	87.5
120	30	72	102	87.5	87.5
120	36	72	102	87.5	87.5
120	42	72	102	86.7	86.7
120	48	72	102	81.4	81.4

DOUBLE DOOR JAMB CAPACITY (psf)					
Nominal Dimensions				DJ3	
FH	SLW	DOW	DOH	EXT (+)	INT. (-)
126	24	72	102	87.5	87.5
126	30	72	102	82.9	82.9
126	36	72	102	77.2	77.2
126	42	72	102	72.3	72.3
132	24	72	102	75.0	75.0
132	30	72	102	69.8	69.8
132	36	72	102	65.2	65.2
144	24	72	102	54.9	54.9
120	42	72	108	87.5	87.5
120	48	72	108	85.0	85.0
126	24	72	108	87.5	87.5
126	30	72	108	86.9	86.9
126	36	72	108	80.7	80.7
126	42	72	108	75.4	75.4
132	24	72	108	78.4	78.4
132	30	72	108	72.6	72.6
132	36	72	108	67.7	67.7
144	24	72	108	56.7	56.7
126	30	72	114	87.5	87.5
126	36	72	114	84.7	84.7
126	42	72	114	78.9	78.9
132	24	72	114	82.4	82.4
132	30	72	114	76.0	76.0
132	36	72	114	70.6	70.6
144	24	72	114	58.8	58.8
126	36	72	120	87.5	87.5
126	42	72	120	82.9	82.9
132	24	72	120	87.0	87.0
132	30	72	120	80.0	80.0
132	36	72	120	74.0	74.0
144	24	72	120	61.3	61.3
114	36	84	84	87.5	87.5
114	42	84	84	84.7	84.7
120	24	84	84	84.5	84.5
120	30	84	84	79.4	79.4
120	36	84	84	74.9	74.9
126	24	84	84	71.5	71.5
126	30	84	84	67.2	67.2
132	24	84	84	61.1	61.1
120	24	84	96	87.5	87.5
120	30	84	96	86.1	86.1
120	36	84	96	80.8	80.8
126	24	84	96	76.7	76.7
126	30	84	96	71.9	71.9
132	24	84	96	64.8	64.8
120	30	84	102	87.5	87.5
120	36	84	102	84.8	84.8
126	24	84	102	80.3	80.3
126	30	84	102	75.0	75.0
132	24	84	102	67.4	67.4
120	36	84	108	87.5	87.5
126	24	84	108	84.7	84.7

DOUBLE DOOR JAMB CAPACITY (psf)					
Nominal Dimensions				DJ3	
FH	SLW	DOW	DOH	EXT (+)	INT. (-)
126	30	84	108	78.9	78.9
132	24	84	108	70.5	70.5
126	24	84	114	87.5	87.5
126	30	84	114	83.4	83.4
132	24	84	114	74.2	74.2
102	42	96	84	87.5	87.5
108	36	96	84	87.5	87.5
114	24	96	84	87.5	87.5
114	30	96	84	86.7	86.7
120	24	96	84	76.5	76.5
102	42	96	90	87.5	87.5
108	36	96	90	87.5	87.5
114	30	96	90	87.5	87.5
120	24	96	90	79.7	79.7
114	30	96	102	87.5	87.5
120	24	96	102	87.5	87.5
120	24	96	108	87.5	87.5

DOUBLE DOOR JAMB LOAD CAPACITY

REFER TO ELEV. 4



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REVN	DATE/REMARKS
1	10/19/24 : LEVEL 'E' IMPACT QUALIFICATION

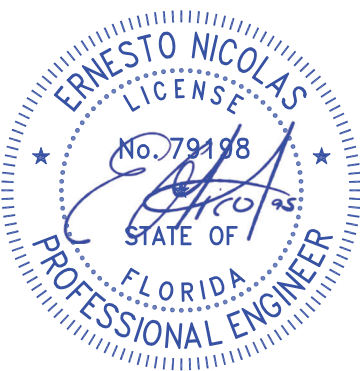
ENGINEER:



En3 Engineering & Consultancy

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

STAMP:



FLORIDA PRODUCT APPROVAL:

FL46552

DATE: FEBRUARY 8, 2024

DRAWN: Erick	CHK: ESN
DRWG. No: 24FL–101	SCALE: NTS

SHEET NO.:
9 of 17

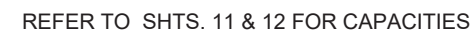


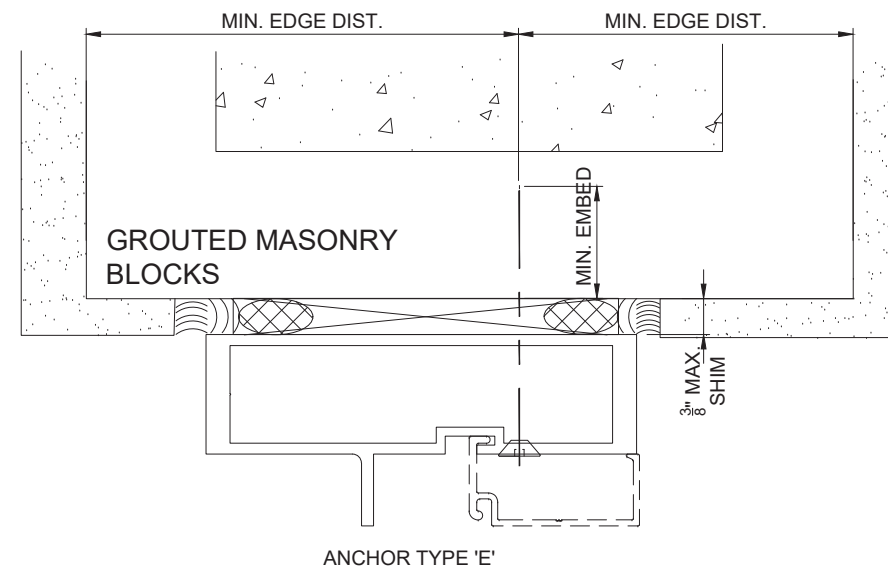
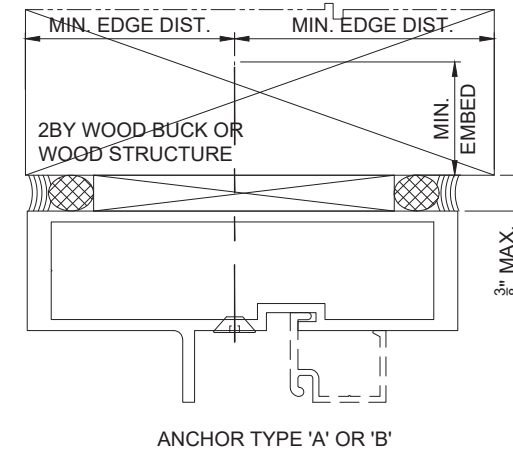
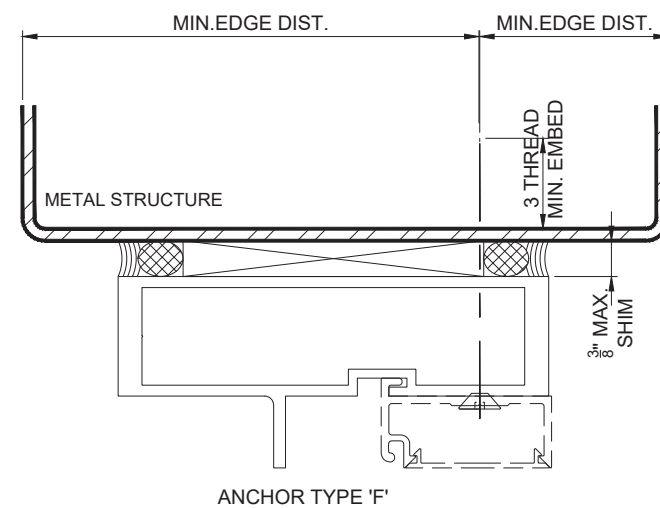
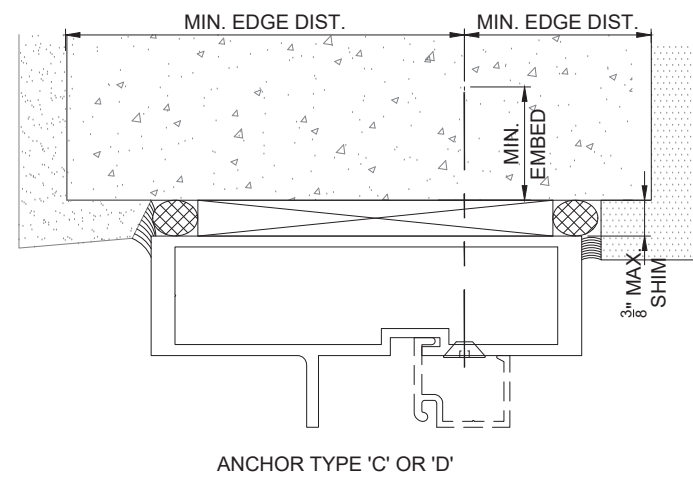
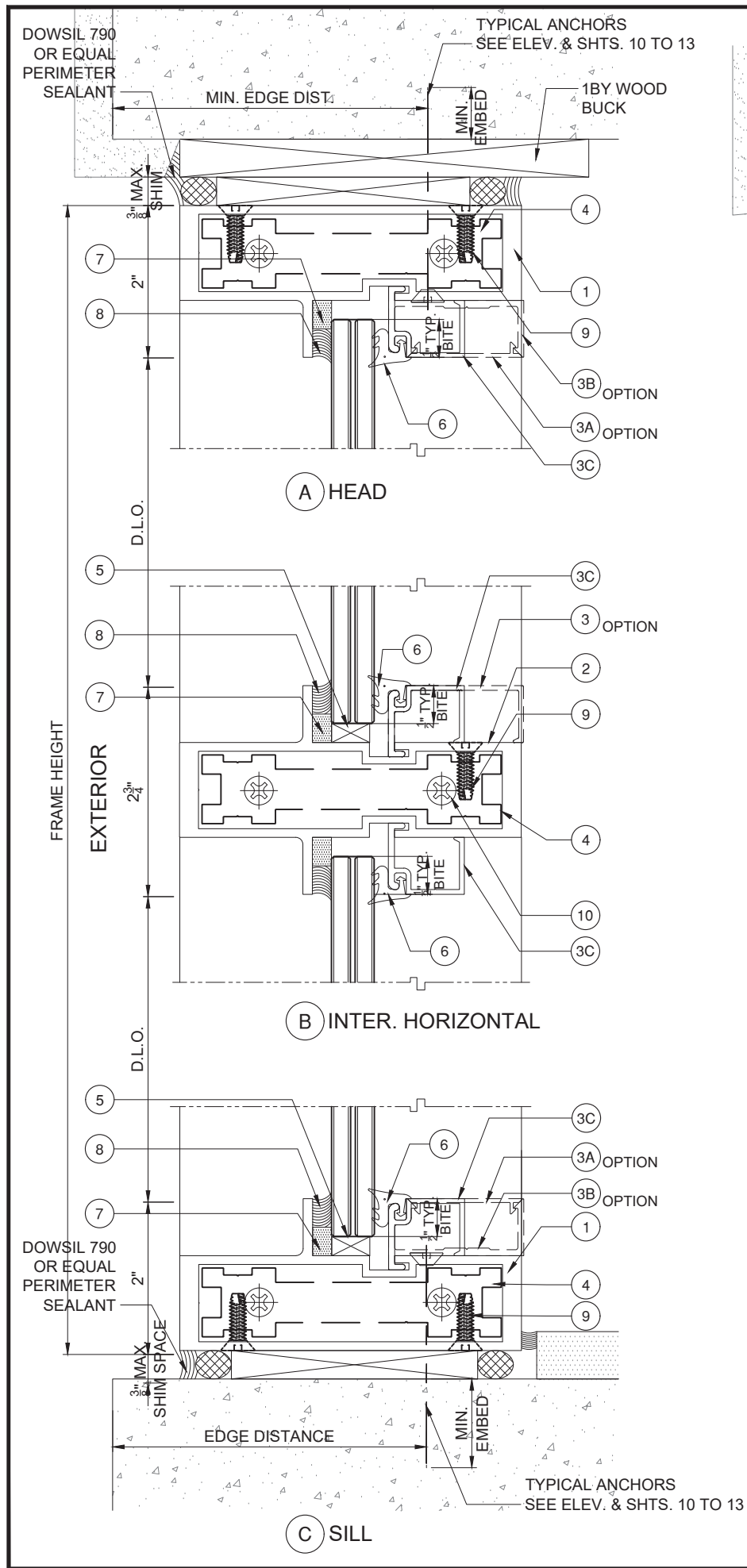
TABLE 1 - JAMB ANCHOR SPACING (in)						
ANCHOR TYPE	MAX. 1/4" SHIM GAP			MAX. 3/8" SHIM GAP		
	MULLION SPACING (in)					
	≤ 48	≤ 60	≤ 72	≤ 48	≤ 60	≤ 72
A	12	10	8	10	8	7
B	15	12	10	15	12	10
C	15	12	10	10	8	7
D	22	17	14	15	12	10
E	17	13	11	15	12	10
F	18	14	12	12	10	8

ANCHOR LOAD CAPACITY (psf)														Ext. (+) / Int. (-)			
Nom. Sizes (in)		TYPE 'A'			TYPE 'B'			TYPE 'C'			TYPE 'D'		TYPE 'E'		TYPE 'F'		
W	H	A2	A3	A4	B2	B3	B4	C2	C3	C4	D2	D3	E2	E3	F2	F3	
30	66	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
36		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
42		88.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
48		77.1	100.0	100.0	93.1	100.0	100.0	93.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
54		68.5	100.0	100.0	82.7	100.0	100.0	82.7	100.0	100.0	100.0	100.0	93.7	100.0	97.0	100.0	
60		61.7	92.5	100.0	74.5	100.0	100.0	74.5	100.0	100.0	100.0	100.0	84.4	100.0	87.3	100.0	
66		56.1	84.1	100.0	67.7	100.0	100.0	67.7	100.0	100.0	97.3	100.0	76.7	100.0	79.3	100.0	
72		51.4	77.1	100.0	62.1	93.1	100.0	62.1	93.1	100.0	89.2	100.0	70.3	100.0	72.7	100.0	
30	72	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
36		94.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
42		80.8	100.0	100.0	97.5	100.0	100.0	97.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
48		70.7	100.0	100.0	85.3	100.0	100.0	85.3	100.0	100.0	100.0	100.0	96.7	100.0	100.0	100.0	
54		62.8	94.2	100.0	75.9	100.0	100.0	75.9	100.0	100.0	100.0	100.0	85.9	100.0	88.9	100.0	
60		56.5	84.8	100.0	68.3	100.0	100.0	68.3	100.0	100.0	98.1	100.0	77.3	100.0	80.0	100.0	
66		51.4	77.1	100.0	62.1	93.1	100.0	62.1	93.1	100.0	89.2	100.0	70.3	100.0	72.7	100.0	
72		47.1	70.7	94.2	56.9	85.3	100.0	56.9	85.3	100.0	81.8	100.0	64.4	96.7	66.7	100.0	
30	78	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
36		87.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
42		74.5	100.0	100.0	90.0	100.0	100.0	90.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
48		65.2	97.8	100.0	78.8	100.0	100.0	78.8	100.0	100.0	100.0	100.0	89.2	100.0	92.3	100.0	
54		58.0	87.0	100.0	70.0	100.0	100.0	70.0	100.0	100.0	100.0	100.0	79.3	100.0	82.1	100.0	
60		52.2	78.3	100.0	63.0	94.5	100.0	63.0	94.5	100.0	90.6	100.0	71.4	100.0	73.8	100.0	
66		47.4	71.2	94.9	57.3	85.9	100.0	57.3	85.9	100.0	82.3	100.0	64.9	97.3	67.1	100.0	
72		43.5	65.2	87.0	52.5	78.8	100.0	52.5	78.8	100.0	75.5	100.0	59.5	89.2	61.5	92.3	
30	84	96.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
36		80.8	100.0	100.0	97.5	100.0	100.0	97.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
42		69.2	100.0	100.0	83.6	100.0	100.0	83.6	100.0	100.0	100.0	100.0	94.7	100.0	98.0	100.0	
48		60.6	90.9	100.0	73.1	100.0	100.0	73.1	100.0	100.0	100.0	100.0	82.9	100.0	85.7	100.0	
54		53.8	80.8	100.0	65.0	97.5	100.0	65.0	97.5	100.0	93.5	100.0	73.7	100.0	76.2	100.0	
60		48.5	72.7	96.9	58.5	87.8	100.0	58.5	87.8	100.0	84.1	100.0	66.3	99.4	68.6	100.0	
66		44.1	66.1	88.1	53.2	79.8	100.0	53.2	79.8	100.0	76.5	100.0	60.3	90.4	62.3	93.5	
72		40.4	60.6	80.8	48.8	73.1	97.5	48.8	73.1	97.5	70.1	100.0	55.2	82.9	57.1	85.7	
30	90	90.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
36		75.4	100.0	100.0	91.0	100.0	100.0	91.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
42		64.6	96.9	100.0	78.0	100.0	100.0	78.0	100.0	100.0	100.0	100.0	88.4	100.0	91.4	100.0	
48		56.5	84.8	100.0	68.3	100.0	100.0	68.3	100.0	100.0	98.1	100.0	77.3	100.0	80.0	100.0	
54		50.3	75.4	100.0	60.7	91.0	100.0	60.7	91.0	100.0	87.2	100.0	68.7	100.0	71.1	100.0	
60		45.2	67.8	90.5	54.6	81.9	100.0	54.6	81.9	100.0	78.5	100.0	61.9	92.8	64.0	96.0	
66		41.1	61.7	82.2	49.6	74.5	99.3	49.6	74.5	99.3	71.4	100.0	56.2	84.4	58.2	87.3	
72		37.7	56.5	75.4	45.5	68.3	91.0	45.5	68.3	91.0	65.4	98.1	51.6	77.3	53.3	80.0	
30	96	84.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
36		70.7	100.0	100.0	85.3	100.0	100.0	85.3	100.0	100.0	100.0	100.0	96.7	100.0	100.0	100.0	
42		60.6	90.9	100.0	73.1	100.0	100.0	73.1	100.0	100.0	100.0	100.0	82.9	100.0	85.7	100.0	
48		53.0	79.5	100.0	64.0	96.0	100.0	64.0	96.0	100.0	92.0	100.0	72.5	100.0	75.0	100.0	
54		47.1	70.7	94.2	56.9	85.3	100.0	56.9	85.3	100.0	81.8	100.0	64.4	96.7	66.7	100.0	
60		42.4	63.6	84.8	51.2	76.8	100.0	51.2	76.8	100.0	73.6	100.0	58.0	87.0	60.0	90.0	
66		38.5	57.8	77.1	46.5	69.8	93.1	46.5	69.8	93.1	66.9	100.0	52.7	79.1	54.5	81.8	
72		35.3	53.0	70.7	42.7	64.0	85.3	42.7	64.0	85.3	61.3	92.0	48.3	72.5	50.0	75.0	

ANCHOR LOAD CAPACITY (psf)														Ext. (+) / Int. (-)			
Nom. Sizes (in)		TYPE 'A'			TYPE 'B'			TYPE 'C'			TYPE 'D'		TYPE 'E'		TYPE 'F'		
W	H	A2	A3	A4	B2	B3	B4	C2	C3	C4	D2	D3	E2	E3	F2	F3	
30	102	79.8	100.0	100.0	96.4	100.0	100.0	96.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
36		66.5	99.8	100.0	80.3	100.0	100.0	80.3	100.0	100.0	100.0	100.0	91.0	100.0	94.1	100.0	
42		57.0	85.5	100.0	68.8	100.0	100.0	68.8	100.0	100.0	99.0	100.0	78.0	100.0	80.7	100.0	
48		49.9	74.8	99.8	60.2	90.4	100.0	60.2	90.4	100.0	86.6	100.0	68.2	100.0	70.6	100.0	
54		44.3	66.5	88.7	53.5	80.3	100.0	53.5	80.3	100.0	77.0	100.0	60.7	91.0	62.7	94.1	
60		39.9	59.9	79.8	48.2	72.3	96.4	48.2	72.3	96.4	69.3	100.0	54.6	81.9	56.5	84.7	
66		36.3	54.4	72.6	43.8	65.7	87.6	43.8	65.7	87.6	63.0	94.5	49.6	74.4	51.3	77.0	
72		33.3	49.9	66.5	40.2	60.2	80.3	40.2	60.2	80.3	57.7	86.6	45.5	68.2	47.1	70.6	
30	108	75.4	100.0	100.0	91.0	100.0	100.0	91.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
36		62.8	94.2	100.0	75.9	100.0	100.0	75.9	100.0	100.0	100.0	100.0	85.9	100.0	88.9	100.0	
42		53.8	80.8	100.0	65.0	97.5	100.0	65.0	97.5	100.0	93.5	100.0	73.7	100.0	76.2	100.0	
48		47.1	70.7	94.2	56.9	85.3	100.0	56.9	85.3	100.0	81.8	100.0	64.4	96.7	66.7	100.0	
54		41.9	62.8	83.8	50.6	75.9	100.0	50.6	75.9	100.0	72.7	100.0	57.3	85.9	59.3	88.9	
60		37.7	56.5	75.4	45.5	68.3	91.0	45.5	68.3	91.0	65.4	98.1	51.6	77.3	53.3	80.0	
66		34.3	51.4	68.5	41.4	62.1	82.7	41.4	62.1	82.7	59.5	89.2	46.9	70.3	48.5	72.7	
72		31.4	47.1	62.8	37.9	56.9	75.9	37.9	56.9	75.9	54.5	81.8	43.0	64.4	44.4	66.7	
30	114	71.4	100.0	100.0	86.2	100.0	100.0	86.2	100.0	100.0	100.0	97.7	100.0	100.0	100.0	100.0	
36		59.5	89.3	100.0	71.9	100.0	100.0	71.9	100.0	100.0	100.0	81.4	100.0	84.2	100.0	100.0	
42		51.0	76.5	100.0	61.6	92.4	100.0	61.6	92.4	100.0	88.5	100.0	69.8	100.0	72.2	100.0	
48		44.6	66.9	89.3	53.9	80.8	100.0	53.9	80.8	100.0	77.5	100.0	61.1	91.6	63.2	94.7	
54		39.7	59.5	79.3	47.9	71.9	95.8	47.9	71.9	95.8	68.9	100.0	54.3	81.4	56.1	84.2	
60		35.7	53.6	71.4	43.1	64.7	86.2	43.1	64.7	86.2	62.0	93.0	48.8	73.3	50.5	75.8	
66		32.5	48.7	64.9	39.2	58.8	78.4	39.2	58.8	78.4	56.3	84.5	44.4	66.6	45.9	68.9	
72		29.8	44.6	59.5	35.9	53.9	71.9	35.9	53.9	71.9	51.6	77.5	40.7	61.1	42.1	63.2	
30	120	67.8	100.0	100.0	81.9	100.0	100.0	81.9	100.0	100.0	100.0	92.8	100.0	96.0	100.0	100.0	
36		56.5	84.8	100.0	68.3	100.0	100.0	68.3	100.0	100.0	98.1	100.0	77.3	100.0	80.0	100.0	
42		48.5	72.7	96.9	58.5	87.8	100.0	58.5	87.8	100.0	84.1	100.0	66.3	99.4	68.6	100.0	
48		42.4	63.6	84.8	51.2	76.8	100.0	51.2	76.8	100.0	73.6	100.0	58.0	87.0	60.0	90.0	
54		37.7	56.5	75.4	45.5	68.3	91.0	45.5	68.3	91.0	65.4	98.1	51.6	77.3	53.3	80.0	
60		33.9	50.9	67.8	41.0	61.4	81.9	41.0	61.4	81.9	58.9	88.3	46.4	69.6	48.0	72.0	
66		30.8	46.3	61.7	37.2	55.9	74.5	37.2	55.9	74.5	53.5	80.3	42.2	63.3	43.6	65.5	
72		28.3	42.4	56.5	34.1	51.2	68.3	34.1	51.2	68.3	49.1	73.6	38.7	58.0	40.0	60.0	
30	126	64.6	96.9	100.0	78.0	100.0	100.0	78.0	100.0	100.0	100.0	100.0	88.4	100.0	91.4	100.0	
36		53.8	80.8	100.0	65.0	97.5	100.0	65.0	97.5	100.0	93.5	100.0	73.7	100.0	76.2	100.0	
42		46.1	69.2	92.3	55.7	83.6	100.0	55.7	83.6	100.0	80.1	100.0	63.1	94.7	65.3	98.0	
48		40.4	60.6	80.8	48.8	73.1	97.5	48.8	73.1	97.5	70.1	100.0	55.2	82.9	57.1	85.7	
54		35.9	53.8	71.8	43.3	65.0	86.7	43.3	65.0	86.7	62.3	93.5	49.1	73.7	50.8	76.2	
60		32.3	48.5	64.6	39.0	58.5	78.0	39.0	58.5	78.0	56.1	84.1	44.2	66.3	45.7	68.6	
30		132	61.7	92.5	100.0	74.5	100.0	100.0	74.5	100.0	100.0	100.0	100.0	84.4	100.0	87.3	100.0
36			51.4	77.1	100.0	62.1	93.1	100.0	62.1	93.1	100.0	89.2	100.0	70.3	100.0	72.7	100.0
42	44.1		66.1	88.1	53.2	79.8	100.0	53.2	79.8	100.0	76.5	100.0	60.3	90.4	62.3	93.5	
48	38.5		57.8	77.1	46.5	69.8	93.1	46.5	69.8	93.1	66.9	100.0	52.7	79.1	54.5	81.8	
54	34.3		51.4	68.5	41.4	62.1	82.7	41.4	62.1	82.7	59.5	89.2	46.9	70.3	48.5	72.7	
30	138		59.0	88.5	100.0	71.2	100.0	100.0	71.2	100.0	100.0	100.0	100.0	80.7	100.0	83.5	100.0
36			49.2	73.7	98.3	59.4	89.0	100.0	59.4	89.0	100.0	85.3	100.0	67.2	100.0	69.6	100.0
42			42.1	63.2	84.3	50.9	76.3	100.0	50.9	76.3	100.0	73.1	100.0	57.6	86.5	59.6	89.4
48		36.9	55.3	73.7	44.5	66.8	89.0	44.5	66.8	89.0	64.0	96.0	50.4	75.7	52.2	78.3	
54		32.8	49.2	65.5	39.6	59.4	79.1	39.6	59.4	79.1	56.9	85.3	44.8	67.2	46.4	69.6	
24		144	70.7	100.0	100.0	85.3	100.0	100.0	85.3	100.0	100.0	100.0	100.0	96.7	100.0	100.0	100.0
30			56.5	84.8	100.0	68.3	100.0	100.0	68.3	100.0	100.0	98.1	100.0	77.3	100.0	80.0	100.0
36			47.1	70.7	94.2	56.9	85.3	100.0	56.9	85.3	100.0	81.8	100.0	64.4	96.7	66.7	100.0
42	40.4		60.6	80.8	48.8	73.1	97.5	48.8	73.1	97.5	70.1	100.0	55.2	82.9	57.1	85.7	
48	35.3		53.0	70.7	42.7	64.0	85.3	42.7	64.0	85.3	61.3	92.0	48.3	72.5	50.0	75.0	

ANCHOR LOAD CAPACITY (psf)																				Ext. (+) / Int. (-)			
Nom. Sizes (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	66	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
36		88.2	100.0	100.0	100.0	100.0	100.0	100.0	88.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
42		75.6	100.0	100.0	100.0	100.0	100.0	100.0	75.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	89.4	100.0	100.0		
48		66.2	99.3	100.0	100.0	93.1	100.0	100.0	66.2	99.3	100.0	100.0	96.4	100.0	100.0	96.4	100.0	100.0	78.2	100.0	100.0		
54		58.8	88.2	100.0	100.0	82.7	100.0	100.0	58.8	88.2	100.0	100.0	85.7	100.0	100.0	85.7	100.0	100.0	69.5	100.0	100.0		
60		52.9	79.4	100.0	100.0	74.5	100.0	100.0	52.9	79.4	100.0	100.0	77.1	100.0	100.0	77.1	100.0	100.0	62.5	93.8	100.0		
66		48.1	72.2	96.3	100.0	67.7	100.0	100.0	48.1	72.2	96.3	100.0	70.1	100.0	100.0	70.1	100.0	100.0	56.9	85.3	100.0		
72	72	44.1	66.2	88.2	100.0	62.1	93.1	100.0	44.1	66.2	88.2	100.0	64.2	96.4	100.0	64.2	96.4	100.0	52.1	78.2	100.0		
30		97.1	100.0	100.0	100.0	100.0	100.0	100.0	97.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
36		80.9	100.0	100.0	100.0	100.0	100.0	100.0	80.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	95.6	100.0	100.0		
42		69.3	100.0	100.0	100.0	97.5	100.0	100.0	69.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	81.9	100.0	100.0		
48		60.7	91.0	100.0	100.0	85.3	100.0	100.0	60.7	91.0	100.0	100.0	88.3	100.0	100.0	88.3	100.0	100.0	71.7	100.0	100.0		
54		53.9	80.9	100.0	100.0	75.9	100.0	100.0	53.9	80.9	100.0	100.0	78.5	100.0	100.0	78.5	100.0	100.0	63.7	95.6	100.0		
60		48.5	72.8	97.1	100.0	68.3	100.0	100.0	48.5	72.8	97.1	100.0	70.7	100.0	100.0	70.7	100.0	100.0	57.3	86.0	100.0		
66	78	44.1	66.2	88.2	100.0	62.1	93.1	100.0	44.1	66.2	88.2	100.0	64.2	96.4	100.0	64.2	96.4	100.0	52.1	78.2	100.0		
72		40.4	60.7	80.9	100.0	56.9	85.3	100.0	40.4	60.7	80.9	100.0	58.9	88.3	100.0	58.9	88.3	100.0	47.8	71.7	95.6		
30		89.6	100.0	100.0	100.0	100.0	100.0	100.0	89.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
36		74.7	100.0	100.0	100.0	100.0	100.0	100.0	74.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	88.2	100.0	100.0		
42		64.0	96.0	100.0	100.0	90.0	100.0	100.0	64.0	96.0	100.0	100.0	93.2	100.0	100.0	93.2	100.0	100.0	75.6	100.0	100.0		
48		56.0	84.0	100.0	100.0	78.8	100.0	100.0	56.0	84.0	100.0	100.0	81.5	100.0	100.0	81.5	100.0	100.0	66.2	99.2	100.0		
54		49.8	74.7	99.6	100.0	70.0	100.0	100.0	49.8	74.7	99.6	100.0	72.5	100.0	100.0	72.5	100.0	100.0	58.8	88.2	100.0		
60	84	44.8	67.2	89.6	100.0	63.0	94.5	100.0	44.8	67.2	89.6	100.0	65.2	97.8	100.0	65.2	97.8	100.0	52.9	79.4	100.0		
66		40.7	61.1	81.5	100.0	57.3	85.9	100.0	40.7	61.1	81.5	100.0	59.3	89.0	100.0	59.3	89.0	100.0	48.1	72.2	96.2		
72		37.3	56.0	74.7	93.3	52.5	78.8	100.0	37.3	56.0	74.7	93.3	54.4	81.5	100.0	54.4	81.5	100.0	44.1	66.2	88.2		
30		83.2	100.0	100.0	100.0	100.0	100.0	100.0	83.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.3	100.0	100.0		
36		69.3	100.0	100.0	100.0	97.5	100.0	100.0	69.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	81.9	100.0	100.0		
42		59.4	89.1	100.0	100.0	83.6	100.0	100.0	59.4	89.1	100.0	100.0	86.5	100.0	100.0	86.5	100.0	100.0	70.2	100.0	100.0		
48		52.0	78.0	100.0	100.0	73.1	100.0	100.0	52.0	78.0	100.0	100.0	75.7	100.0	100.0	75.7	100.0	100.0	61.4	92.1	100.0		
54	90	46.2	69.3	92.4	100.0	65.0	97.5	100.0	46.2	69.3	92.4	100.0	67.3	100.0	100.0	67.3	100.0	100.0	54.6	81.9	100.0		
60		41.6	62.4	83.2	100.0	58.5	87.8	100.0	41.6	62.4	83.2	100.0	60.6	90.9	100.0	60.6	90.9	100.0	49.1	73.7	98.3		
66		37.8	56.7	75.6	94.5	53.2	79.8	100.0	37.8	56.7	75.6	94.5	55.1	82.6	100.0	55.1	82.6	100.0	44.7	67.0	89.4		
72		34.7	52.0	69.3	86.7	48.8	73.1	97.5	34.7	52.0	69.3	86.7	50.5	75.7	100.0	50.5	75.7	100.0	41.0	61.4	81.9		
30		77.7	100.0	100.0	100.0	100.0	100.0	100.0	77.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	91.7	100.0	100.0		
36		64.7	97.1	100.0	100.0	91.0	100.0	100.0	64.7	97.1	100.0	100.0	94.2	100.0	100.0	94.2	100.0	100.0	76.4	100.0	100.0		
42		55.5	83.2	100.0	100.0	78.0	100.0	100.0	55.5	83.2	100.0	100.0	80.8	100.0	100.0	80.8	100.0	100.0	65.5	98.3	100.0		
48	96	48.5	72.8	97.1	100.0	68.3	100.0	100.0	48.5	72.8	97.1	100.0	70.7	100.0	100.0	70.7	100.0	100.0	57.3	86.0	100.0		
54		43.1	64.7	86.3	100.0	60.7	91.0	100.0	43.1	64.7	86.3	100.0	62.8	94.2	100.0	62.8	94.2	100.0	51.0	76.4	100.0		
60		38.8	58.2	77.7	97.1	54.6	81.9	100.0	38.8	58.2	77.7	97.1	56.5	84.8	100.0	56.5	84.8	100.0	45.9	68.8	91.7		
66		35.3	52.9	70.6	88.2	49.6	74.5	99.3	35.3	52.9	70.6	88.2	51.4	77.1	100.0	51.4	77.1	100.0	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		72.8	100.0	100.0	100.0	100.0	100.0	100.0	72.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	86.0	100.0	100.0		
36		60.7	91.0	100.0	100.0	85.3	100.0	100.0	60.7	91.0	100.0	100.0	88.3	100.0	100.0	88.3	100.0	100.0	71.7	100.0	100.0		
42	102	52.0	78.0	100.0	100.0	73.1	100.0	100.0	52.0	78.0	100.0	100.0	75.7	100.0	100.0	75.7	100.0	100.0	61.4	92.1	100.0		
48		45.5	68.3	91.0	100.0	64.0	96.0	100.0	45.5	68.3	91.0	100.0	66.3	99.4	100.0	66.3	99.4	100.0	53.8	80.6	100.0		
54		40.4	60.7	80.9	100.0	56.9	85.3	100.0	40.4	60.7	80.9	100.0	58.9	88.3	100.0	58.9	88.3	100.0	47.8	71.7	95.6		
60		36.4	54.6	72.8	91.0	51.2	76.8	100.0	36.4	54.6	72.8	91.0	53.0	79.5	100.0	53.0	79.5	100.0	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	96.4	48.2	72.3	96.4	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		

ANCHOR LOAD CAPACITY (psf)																				Ext. (+) / Int. (-)			
Nom. Sizes (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	102	68.5	100.0	100.0	100.0	96.4	100.0	100.0	68.5	100.0	100.0	100.0	99.8	100.0	100.0	99.8	100.0	100.0	80.9	100.0	100.0		
36		57.1	85.6	100.0	100.0	80.3	100.0	100.0	57.1	85.6	100.0	100.0	83.1	100.0	100.0	83.1	100.0	100.0	67.5	100.0	100.0		
42		48.9	73.4	97.9	100.0	68.8	100.0	100.0	48.9	73.4	97.9	100.0	71.3	100.0	100.0	71.3	100.0	100.0	57.8	86.7	100.0		
48		42.8	64.2	85.6	100.0	60.2	90.4	100.0	42.8	64.2	85.6	100.0	62.4	93.5	100.0	62.4	93.5	100.0	50.6	75.9	100.0		
54		38.1	57.1	76.1	95.2	53.5	80.3	100.0	38.1	57.1	76.1	95.2	55.4	83.1	100.0	55.4	83.1	100.0	45.0	67.5	89.9		
60		34.3	51.4	68.5	85.6	48.2	72.3	96.4	34.3	51.4	68.5	85.6	49.9	74.8	99.8	49.9	74.8	99.8	40.5	60.7	80.5		
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		
30	108	64.7	97.1	100.0	100.0	91.0	100.0	100.0	64.7	97.1	100.0	100.0	94.2	100.0	100.0	94.2	100.0	100.0	76.4	100.0	100.0		
36		53.9	80.9	100.0	100.0	75.9	100.0	100.0	53.9	80.9	100.0	100.0	78.5	100.0	100.0	78.5	100.0	100.0	63.7	95.6	100.0		
42		46.2	69.3	92.4	100.0	65.0	97.5	100.0	46.2	69.3	92.4	100.0	67.3	100.0	100.0	67.3	100.0	100.0	54.6	81.9	100.0		
48		40.4	60.7	80.9	100.0	56.9	85.3	100.0	40.4	60.7	80.9	100.0	58.9	88.3	100.0	58.9	88.3	100.0	47.8	71.7	95.6		
54		36.0	53.9	71.9	89.9	50.6	75.9	100.0	36.0	53.9	71.9	89.9	52.3	78.5	100.0	52.3	78.5	100.0	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	100.0	100.0	86.2	100.0	100.0	61.3	92.0	100.0	100.0	89.3	100.0	100.0	89.3	100.0	100.0	72.4	100.0	100.0		
36		51.1	76.6	100.0	100.0	71.9	100.0	100.0	51.1	76.6	100.0	100.0	74.4	100.0	100.0	74.4	100.0	100.0	60.4	90.5	100.0		
42		43.8	65.7	87.6	100.0	61.6	92.4	100.0	43.8	65.7	87.6	100.0	63.8	95.6	100.0	63.8	95.6	100.0	51.7	77.6	100.0		
48		38.3	57.5	76.6	95.8	53.9	80.8	100.0	38.3	57.5	76.6	95.8	55.8	83.7	100.0	55.8	83.7	100.0	45.3	67.9	90.5		
54		34.1	51.1	68.1	85.1	47.9	71.9	95.8	34.1	51.1	68.1	85.1	49.6	74.4	99.2	49.6	74.4	99.2	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	100.0	100.0	81.9	100.0	100.0	58.2	87.4	100.0	100.0	84.8	100.0	100.0	84.8	100.0	100.0	68.8	100.0	100.0		
36		48.5	72.8	97.1	100.0	68.3	100.0	100.0	48.5	72.8	97.1	100.0	70.7	100.0	100.0	70.7	100.0	100.0	57.3	86.0	100.0		
42		41.6	62.4	83.2	100.0	58.5	87.8	100.0	41.6	62.4	83.2	100.0	60.6	90.9	100.0	60.6	90.9	100.0	49.1	73.7	98.3		
48		36.4	54.6	72.8	91.0	51.2	76.8	100.0	36.4	54.6	72.8	91.0	53.0	79.5	100.0	53.0	79.5	100.0	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	100.0	100.0	78.0	100.0	100.0	55.5	83.2	100.0	100.0	80.8	100.0	100.0	80.8	100.0	100.0	65.5	98.3	100.0		
36		46.2	69.3	92.4	100.0	65.0	97.5	100.0	46.2	69.3	92.4	100.0	67.3	100.0	100.0	67.3	100.0	100.0	54.6	81.9	100.0		
42		39.6	59.4	79.2	99.0	55.7	83.6	100.0	39.6	59.4	79.2	99.0	57.7	86.5	100.0	57.7	86.5	100.0	46.8	70.2	93.6		
48		34.7	52.0	69.3	86.7	48.8	73.1	97.5	34.7	52.0	69.3	86.7	50.5	75.7	100.0	50.5	75.7	100.0	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	100.0	100.0	74.5	100.0	100.0	52.9	79.4	100.0	100.0	77.1	100.0	100.0	77.1	100.0	100.0	62.5	93.8	100.0	
36	44.1		66.2	88.2	100.0	62.1	93.1	100.0	44.1	66.2	88.2	100.0	64.2	96.4	100.0	64.2	96.4	100.0	52.1	78.2	100.0		
42	37.8		56.7	75.6	94.5	53.2	79.8	100.0	37.8	56.7	75.6	94.5	55.1	82.6	100.0	55.1	82.6	100.0	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	96.4	48.2	72.3	96.4	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		
30	138		50.6	76.0	100.0	100.0	71.2	100.0	100.0	50.6	76.0	100.0	100.0	73.7	100.0	100.0	73.7	100.0	100.0	59.8	89.7	100.0	
36			42.2	63.3	84.4	100.0	59.4	89.0	100.0	42.2	63.3	84.4	100.0	61.4	92.2	100.0	61.4	92.2	100.0	49.9	74.8	99.7	
42		36.2	54.3	72.3	90.4	50.9	76.3	100.0	36.2	54.3	72.3	90.4	52.7	79.0	100.0	52.7	79.0	100.0	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		
24		144	60.7	91.0	100.0	100.0	85.3	100.0	100.0	60.7	91.0	100.0	100.0	88.3	100.0	100.0	88.3	100.0	100.0	71.7	100.0	100.0	
30			48.5	72.8	97.1	100.0	68.3	100.0	100.0	48.5	72.8	97.1	100.0	70.7	100.0	100.0	70.7	100.0	100.0	57.3	86.0	100.0	
36	40.4		60.7	80.9	100.0	56.9	85.3	100.0	40.4	60.7	80.9	100.0	58.9	88.3	100.0	58.9	88.3	100.0	47.8	71.7	95.6		
42	34.7		52.0	69.3	86.7	48.8	73.1	97.5	34.7	52.0	69.3	86.7	50.5	75.7	100.0	50.5	75.7	100.0	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		



ANCHOR SUBSTRATE OPTIONS
WITH DIFFERENT ANCHOR LOCATION OPTIONS

ANCHOR TYPES				
TYPE	SUBSTRATE	MATERIAL	MIN. EMBED (IN.)	MIN. EDGE DIST. (IN.)
A	WOOD	1/4" Ø - TAPCON (Fy = 100ksi & Fu = 125ksi min.)	1.50	1.25
B		1/4" Ø - ULTRACON (Fy = 148ksi & Fu = 164ksi min.)	1.50	1.25
C	CONCRETE	1/4" Ø - TAPCON (Fy = 100ksi & Fu = 125ksi min.)	1.75	2.50
D		1/4" Ø - ULTRACON (Fy = 148ksi & Fu = 164ksi min.)	1.75	2.50
E	GROUTED CMU	1/4" Ø - ULTRACON (Fy = 148ksi & Fu = 164ksi min.)	1.25	2.50
F	METAL	1/4" Ø 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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GLASS & ALUMINUM SOLUTIONS™
<http://www.trulite.com>
1750 Founders Pkwy, Suite. 154,
Alpharetta GA, 30009
p. 800-432-8132

PRODUCT:
3000 Impact Storefront System
LMI - HVHZ

Resistor
BLAST & STORM PROTECTION™

REVN	DATE/REMARKS
1	10/19/24 : LEVEL 'E' IMPACT QUALIFICATION

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

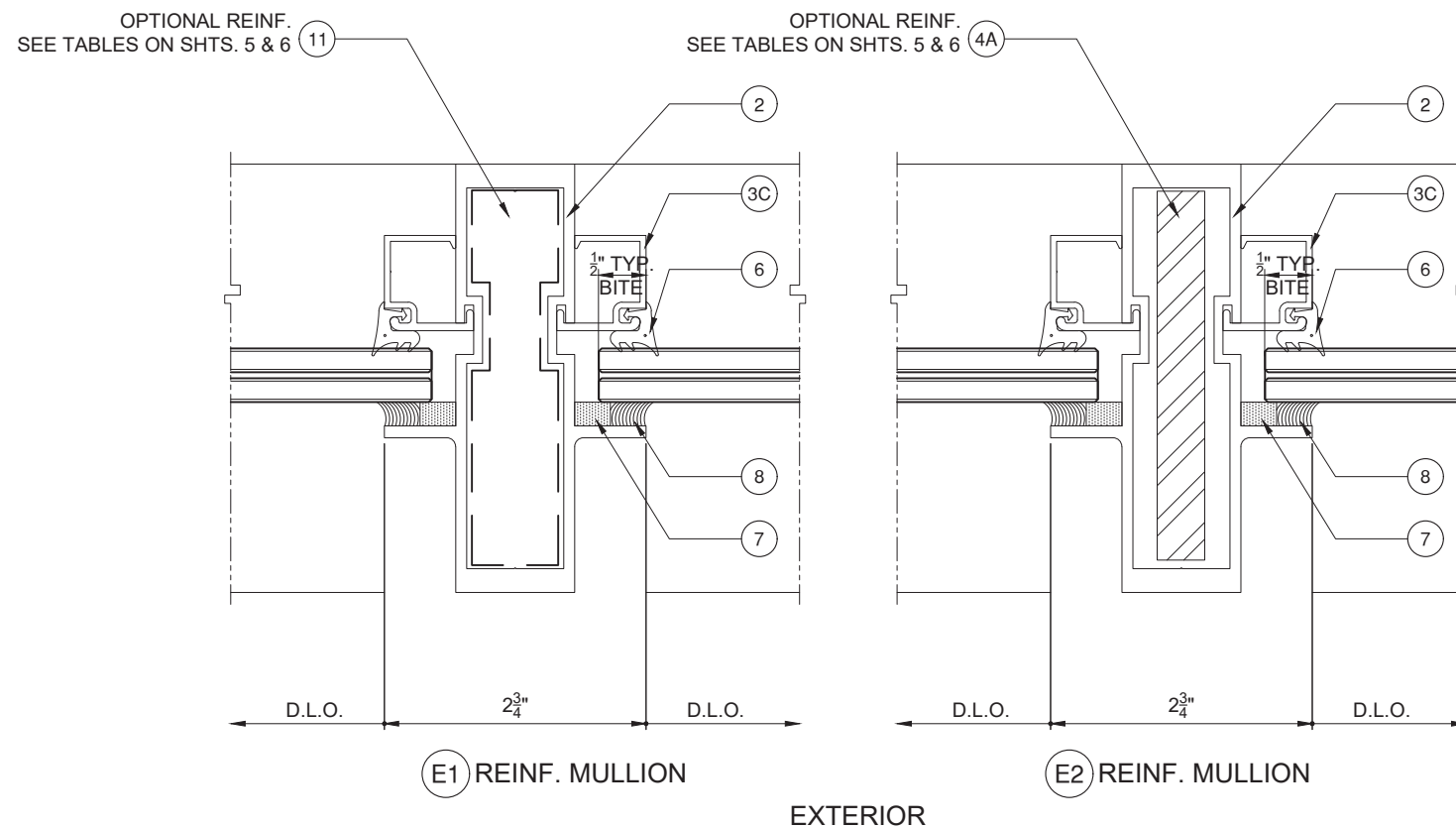
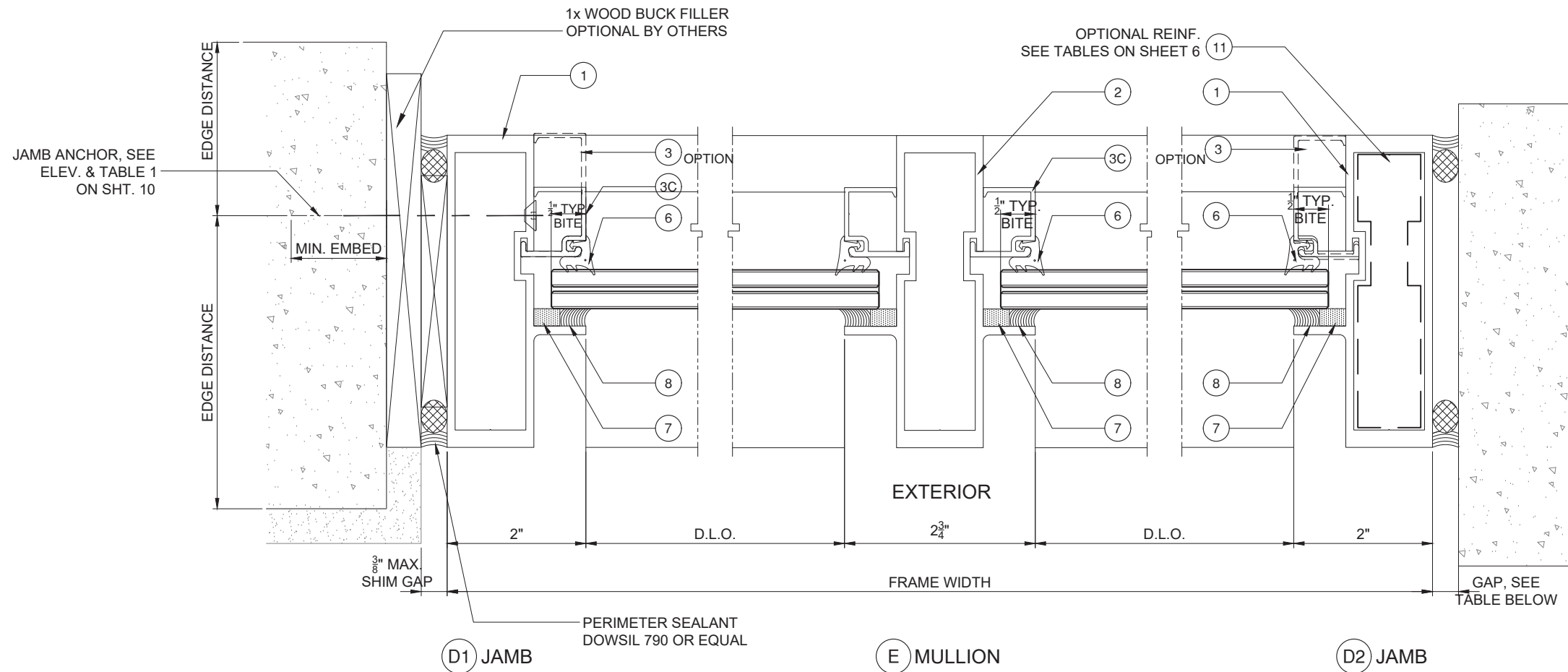
STAMP:
ERNESTO NICOLAS
LICENSE
No. 79198
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

FLORIDA PRODUCT APPROVAL:
FL46552

DATE: FEBRUARY 8, 2024

DRAWN: Erick	CHK: ESN
DRWG. No: 24FL-101	SCALE: NTS

SHEET NO.:
13 of 17



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

Trulite
GLASS & ALUMINUM SOLUTIONS™
<http://www.trulite.com>
1750 Founders Pkwy, Suite. 154,
Alpharetta GA, 30009
p. 800-432-8132

PRODUCT:
3000 Impact Storefront System
LMI - HVHZ

Resistor
BLAST & STORM PROTECTION™

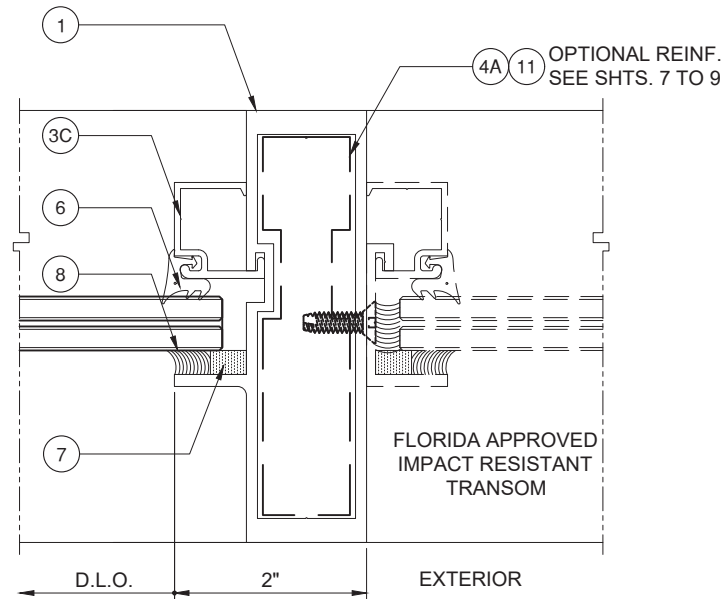
REVN	DATE/REMARKS
1	10/19/24 : LEVEL 'E' IMPACT QUALIFICATION

ENGINEER:

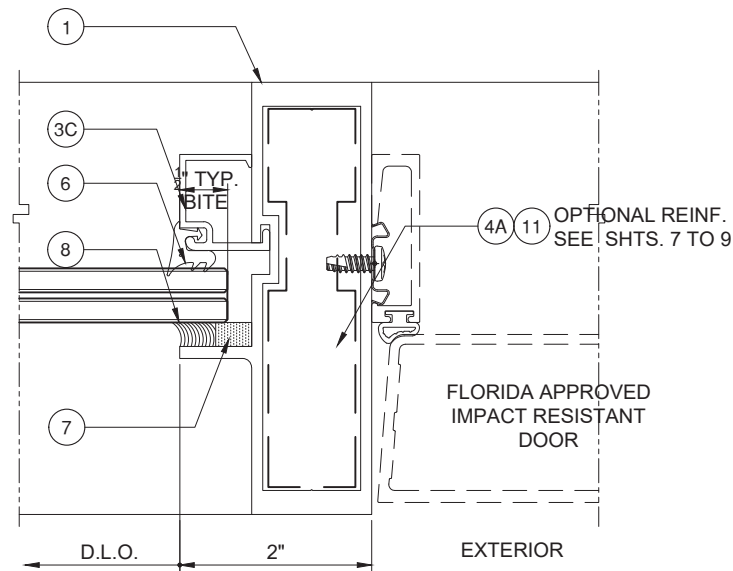
En3 Engineering & Consultancy
950 SW 135th Way Sunrise,
FL 33325 P. 786 474 3876
Email: en3.engconsul@gmail.com

STAMP:

FLORIDA PRODUCT APPROVAL:
FL46552
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DRWG. No: 24FL-101 SCALE: NTS
SHEET NO.:
14 of 17

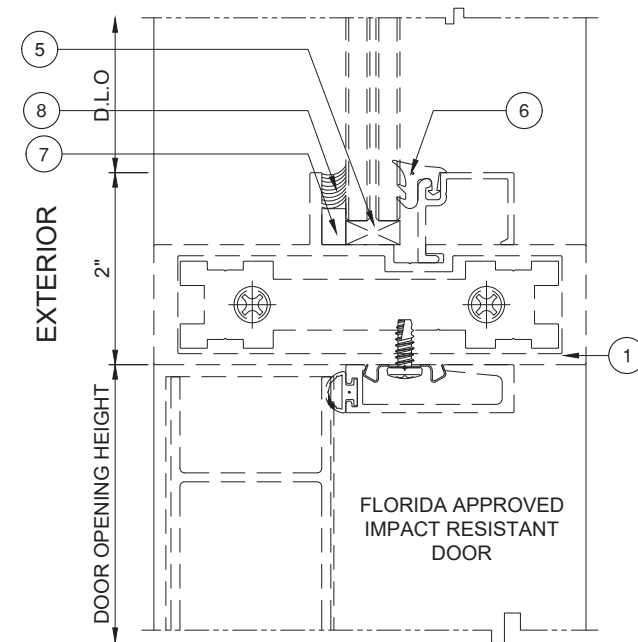


(F) DOOR JAMB AT TRANSOM



(G) DOOR JAMB

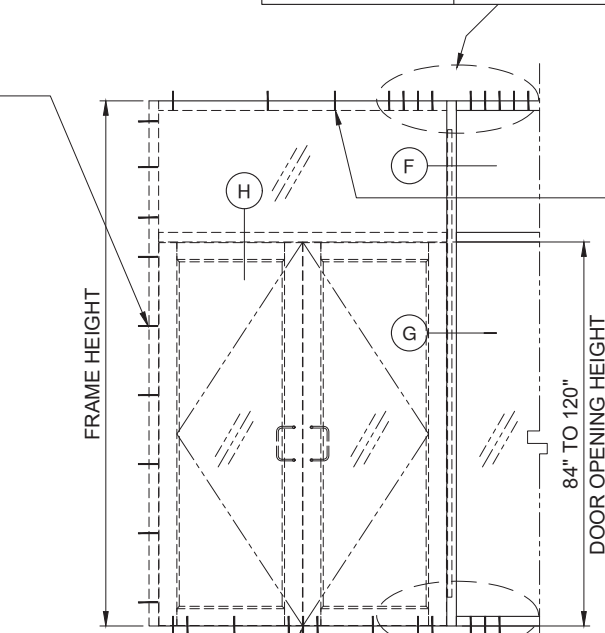
NOTE:
SEE DOOR FL PRODUCT APPROVAL
FOR DESIGN LOAD CAPACITY OF
DOOR, TRANSOM AND DOOR
ANCHORS. LOWER VALUES FROM
DOOR OR WINDOW WALL SYSTEM
CAPACITY WILL APPLY TO ENTIRE
SYSTEM.



(H) DOOR TRANSOM

ANCHOR TYPE	1/4" Shim	3/8" Shim
A	11	13
B	9	9
C	9	13
D	6	9
E	8	9
F	8	11

REFER TO DOOR FL
PRODUCT APPROVAL FOR
DOOR JAMB ANCHOR



REFER TO DOOR FL PRODUCT
APPROVAL FOR TRANSOM
HEAD ANCHOR

REFER TO DOOR FL
PRODUCT APPROVAL

ANCHOR TYPE	1/4" Shim	3/8" Shim
C	6	9
D	5	6

DOUBLE DOOR JAMB ANCHORS

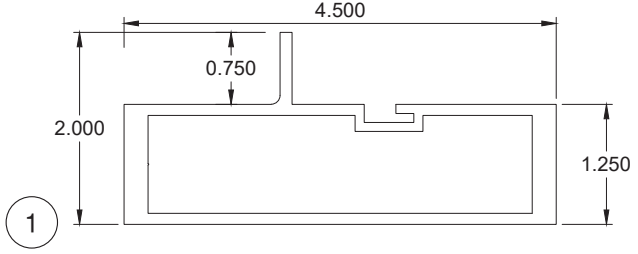
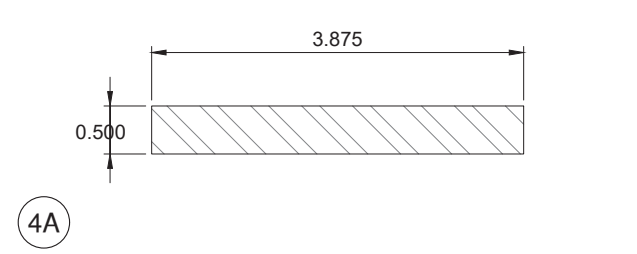
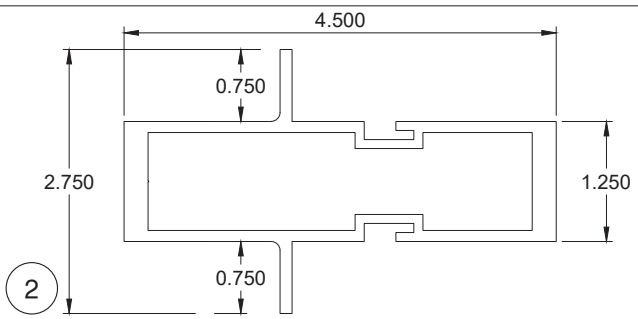
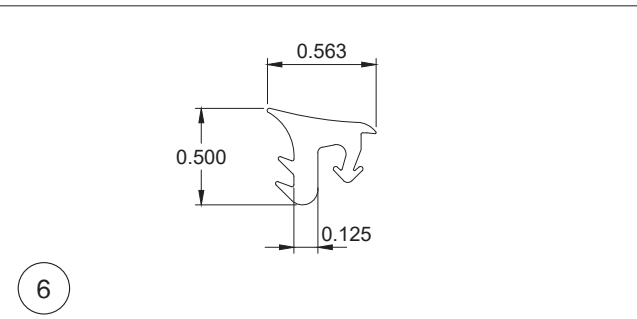
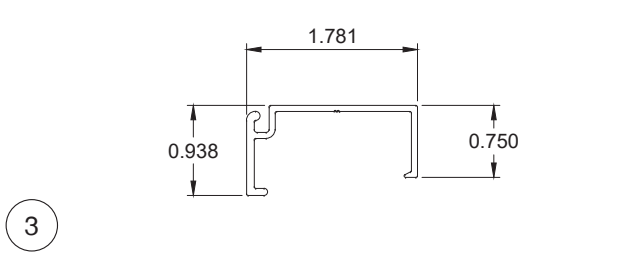
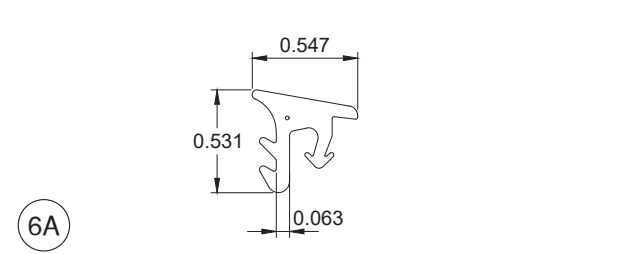
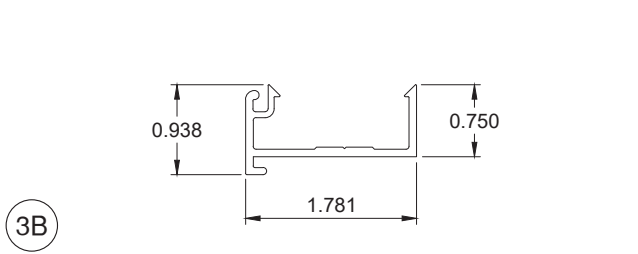
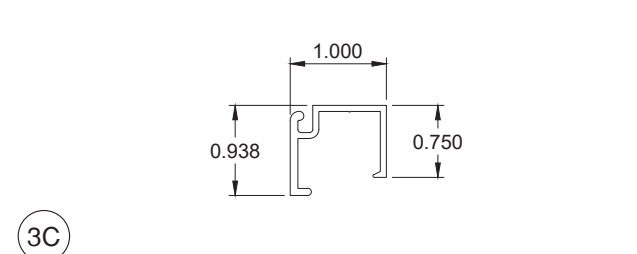
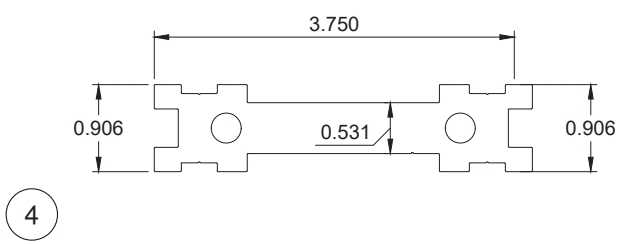
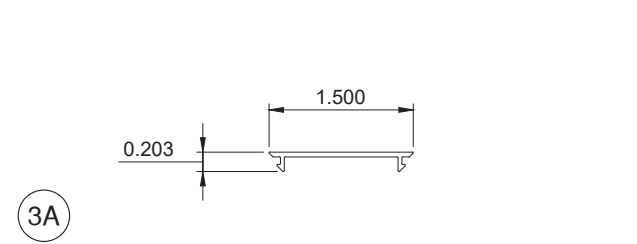
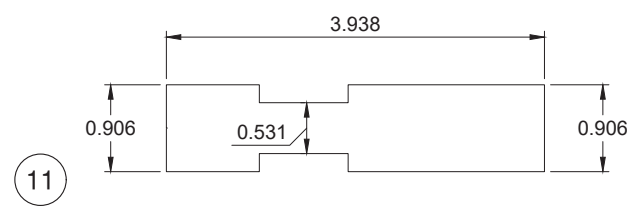
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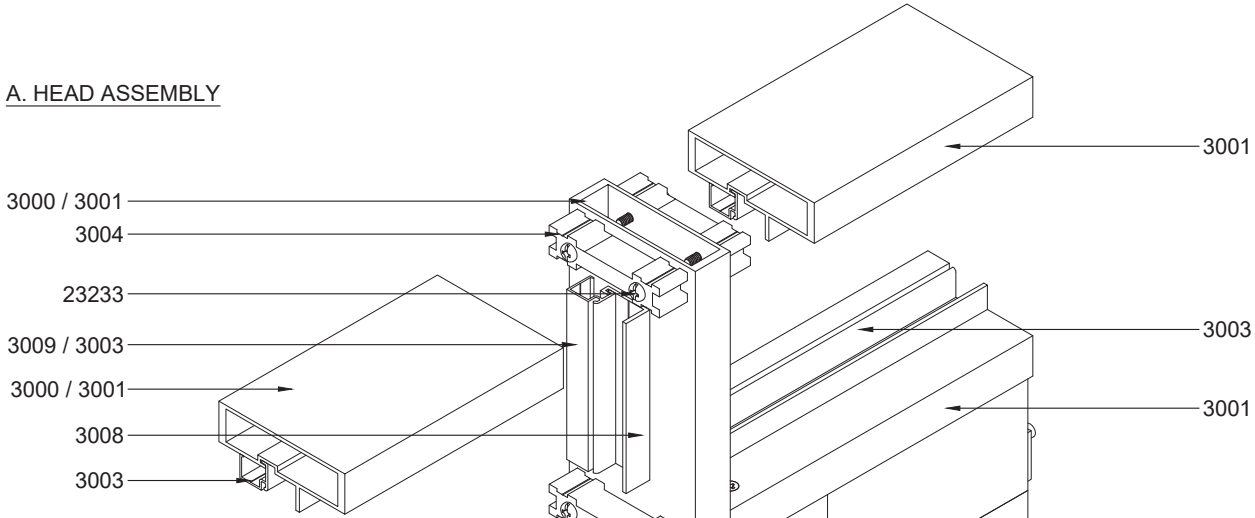
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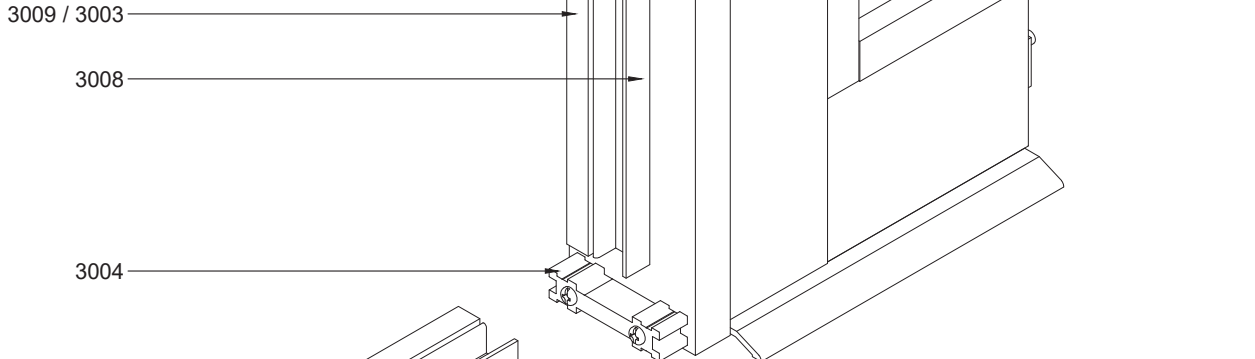
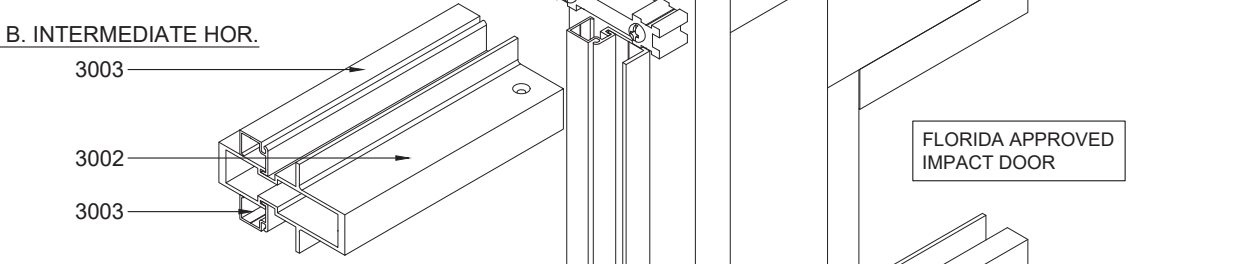
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DATE: FEBRUARY 8, 2024
DRAWN: Erick CHK: ESN
DRWG. No: 24FL-101 SCALE: NTS
SHEET NO.:
15 of 17

	
3001 FRAME HEAD/SILL/JAMB	ST300 STEEL MULLION REINF. (A572, GR. 50)
	
3002 INTERMEDIATE VERTICAL/HORIZONTAL	RG-1 EXTERIOR GLAZING GASKET
	
3103 STANDARD GLASS STOP	RG-2 EXTERIOR GLAZING GASKET
	
3304 OPEN BACK GLASS STOP	3003 OPTIONAL GLASS STOP
	
3004CLIP SHEAR BLOCK	3303 GLASS STOP COVER
	
	3004A ALUMINUM REINFORCEMENT

A. HEAD ASSEMBLY



B. INTERMEDIATE HOR.



C. SILL ASSEMBLY

SERIES 3000 STOREFRONT SYSTEM

- GENERAL NOTE:
- GLASS NOT SHOWN FOR CLARITY.
 - FRAME AND PANEL CORNER, INSTALLATION SCREWS AND ALL METAL PARTS CONNECTIONS TO TO BE SEALAD WITH CLEAR/COLORED SEALANT.

Trulite
GLASS & ALUMINUM SOLUTIONS™
<http://www.trulite.com>
1750 Founders Pkwy, Suite. 154,
Alpharetta GA, 30009
p. 800-432-8132

PRODUCT:
**3000 Impact
Storefront System
LMI - HVHZ**

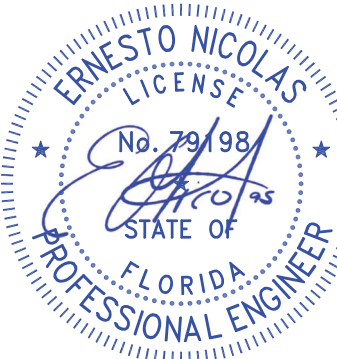
Resistor
BLAST & STORM PROTECTION™

REVN	DATE/REMARKS
1	10/19/24 : LEVEL 'E' IMPACT QUALIFICATION

ENGINEER:


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

STAMP:



FLORIDA PRODUCT APPROVAL:

FL46552

DATE: FEBRUARY 8, 2024

DRAWN: Erick

CHK: ESN

DRWG. No: 24FL-101

SCALE: NTS

SHEET NO.:

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BILL OF MATERIALS				
ITEM #	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	3001	FRAME HEAD/JAMB/JAMB	ALUM. 6063-T6	TRULITE
2	3002	INTERMEDIATE VERTICAL/HORIZONTAL	ALUM. 6063-T6	TRULITE
3	3103	GLASS STOP	ALUM. 6063-T6	TRULITE
3A	3303	GLASS STOP COVER	ALUM. 6063-T6	TRULITE
3B	3304	OPEN BACK GLASS STOP	ALUM. 6063-T6	TRULITE
3C	3003	GLASS STOP	ALUM. 6063-T6	TRULITE
4	3004CLIP	SHEAR BLOCK	ALUM. 6063-T6	TRULITE
4A	ST300	MULLION REINFORCING	STEEL A572 - GR. 50 MIN.	VARIES
5	H62D	SETTING BLOCK (9/16" LAM. GLASS) DUROMETER 85 +/-5	EDPM	TRULITE
6	RG-1	WEDGE IN GASKET DUROMETER 65 +/-5	EDPM	TRULITE
6A	RG-2	WEDGE IN GASKET DUROMETER 65 +/-5	EDPM	TRULITE
7	V2100 / VK1826	GLAZING FOAM TAPE – 1/4" x 3/8"	-	ST. GOBAIN / CAPITAL TAPE
8	-	GLAZING SEALANT	SILICONE	SEE OPTIONS ON SHT. 3
9	23163	#12-24 x 3/4" FHPMS TYPE 23	ZINC COATED STEEL	VARIES
10	23233	1/4-20 x 1-1/2" PHMS TYPE 23 (GR. 5)	ZINC COATED STEEL	VARIES
11	3004A	ALUMINUM REINFORCEMENT	ALUM. 6063-T6	TRULITE
12	-	ALUMINUM GLASS SPACER	ALUMINUM	VARIES



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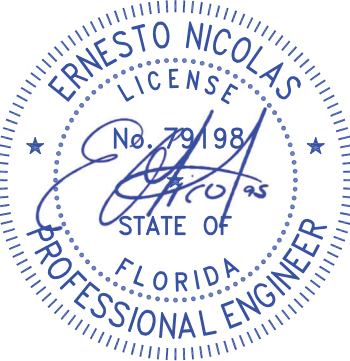
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