

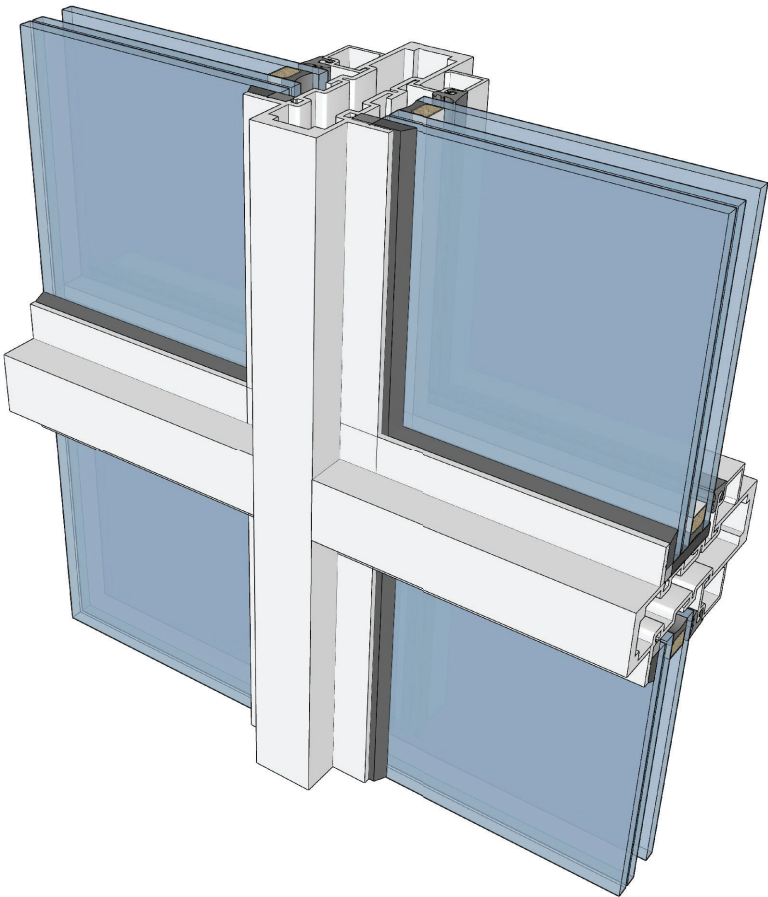
TRULITE GLASS & ALUMINUM SOLUTIONS

SERIES 3000R IMPACT RESISTANT STOREFRONT SYSTEM

WITH MULTIPLE INFILLS (LMI LEVEL 'D' & 'E' IMPACT - 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 3000R RESISTOR SERIES 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 & 8 FOR A GIVEN SPACING AND HEIGHT. THE CAPACITY SHOULD BE EQUAL OR GREATER THAN THE DESIGN LOAD.
4. USING TABLES ON SHEETS 10 & 11 SELECT MULLION/JAMB ANCHOR OPTIONS. FOR DOUBLE DOOR JAMB SEE SHEET 14. 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
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.



<http://www.trulite.com>

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

PRODUCT:

**3000R Impact
Storefront System**

LMI - HVHZ



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

ENGINEER:



En3 Engineering & Consultancy

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

STAMP:



FLORIDA PRODUCT APPROVAL:

FL46132

DATE: DECEMBER 20, 2023

DRAWN: Erick

CHK: ESN

DRWG. No: 23FL-105

SCALE: NTS

SHEET NO.:

1 of 16



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

3000R Impact Storefront System


Resistor
 BLAST & STORM PROTECTION™

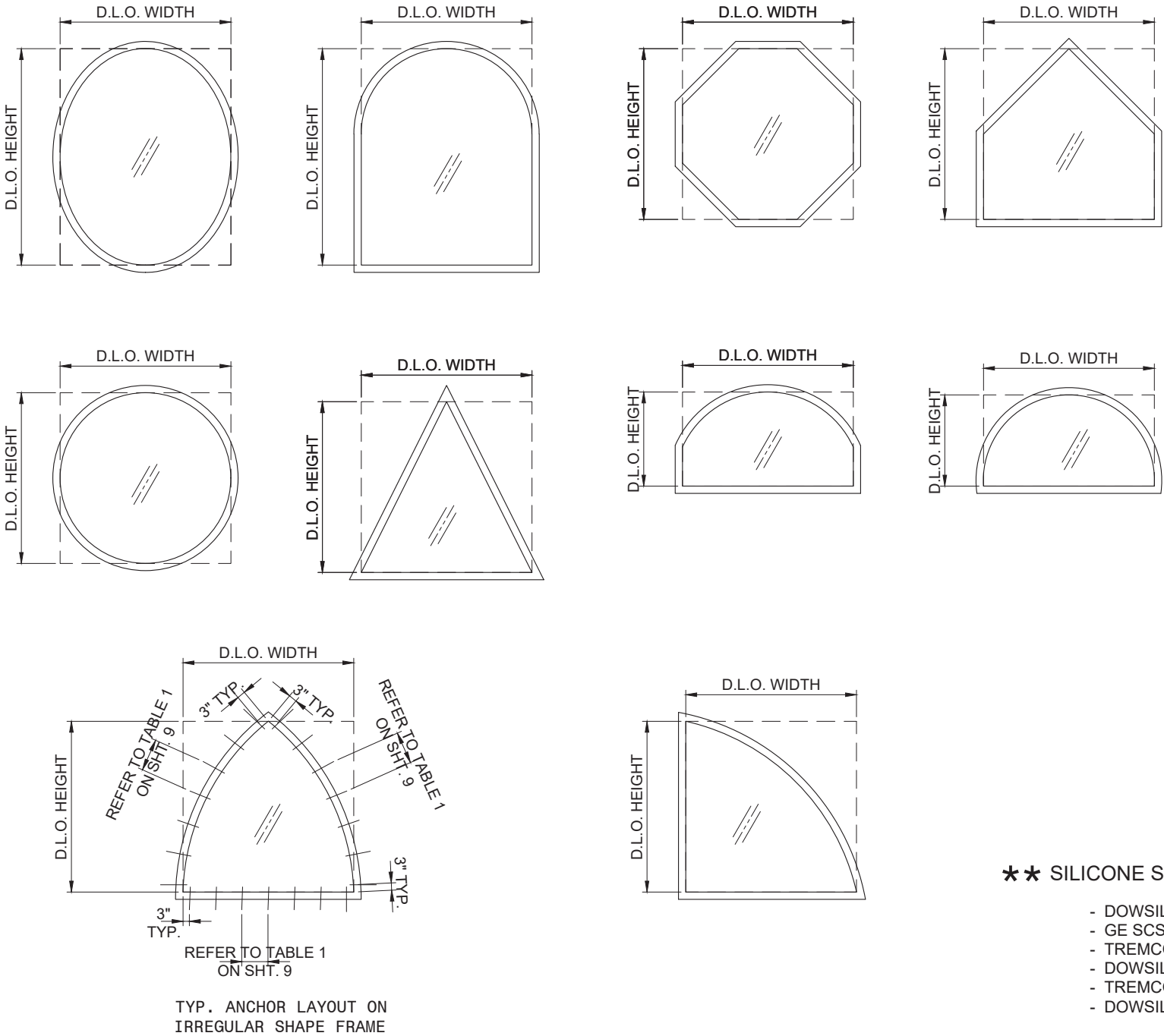
950 SW 135th Way Sunrise,
FL 33325 P. 786 474 3876
Email: en3.engconsul@gmail.com

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 this ring, the word "LICENSE" is at the top and "STATE OF FLORIDA" is at the bottom. In the center, the license number "No. 79198" is printed above a large, stylized signature.

FL46132

2 of 16





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. 9 FOR ANCHOR TYPE & SPACING. REFERENCE 'MULLION SPACING' AS THE EQUIVALENT MAXIMUM ORTHAGONAL DIMENSION.

SILICONE SEALANT OPTIONS:

- DOWSIL 995
- GE SCS2000
- TREMCO PROGLAE SSG
- DOWSIL 795
- TREMCO SPECTREM 2
- DOWSIL 983

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.

0.075" SAFLEX STORM INTERLAYERS BY EASTMAN CHEMICAL COMPANY.
4.

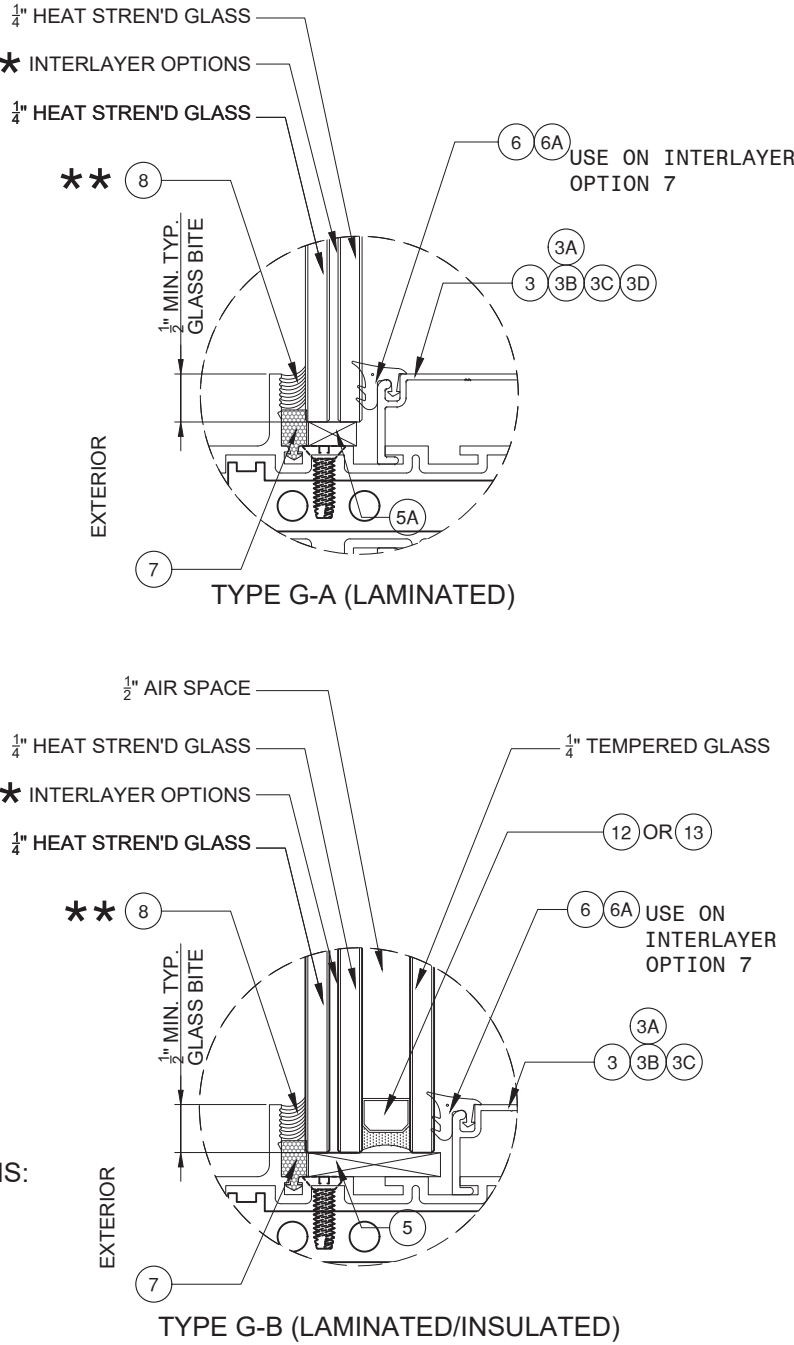
0.090" KURARAY SENTRYGLAS INTERLAYER BY KURARAY AMERICA INC.
5.

0.090"EVERLAM SUPER TOUGH PVB INTERLAYER.
6.

0.090" EVERLAM LAM50 PVB INTERLAYER.
7.

0.180" KURARAY SENTRYGLAS INTERLAYER BY KURARAY AMERICA INC. (LEVEL 'E')

GLAZING OPTIONS



Trulite

GLASS & ALUMINUM SOLUTIONS™

<http://www.trulite.com>

1750 Founders Pkwy, Suite. 154,
Alpharetta GA, 30009
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PRODUCT:

3000R Impact
Storefront System

LMI - HVHZ

Resistor

BLAST & STORM PROTECTION™

REV#	DATE/REMARKS
1	10/19/2024: 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:

FL46132

DATE: DECEMBER 20, 2023

DRAWN: Erick

CHK: ESN

DRWG. No: 23FL-105

SCALE: NTS

SHEET NO.:

3 of 16

GLASS LOAD CAPACITY (psf)																							
DLO (in)		G-A1		G-B1		G-A2		G-B2		G-B3		G-A4		G-A5		G-B5		G-A6		G-B6		G-A7 / G-B7 (Level E)	
		EXT.	INT.	EXT.	INT.	EXT.	INT.	EXT.	INT.	EXT.	INT.	EXT.	INT.	EXT.	INT.	EXT.	INT.	EXT.	INT.	EXT.	INT.	EXT.	INT.
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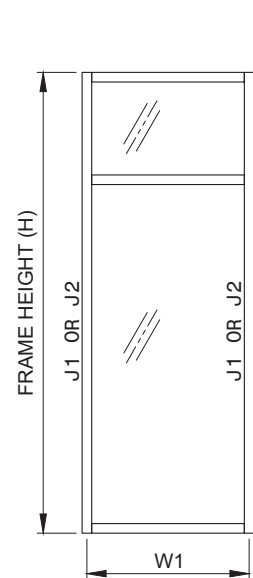
NOTE: GLASS TYPE GUIDE FOR
GLASS LOAD CAPACITY

GLAZING OPTION
AS PER SHT. 3

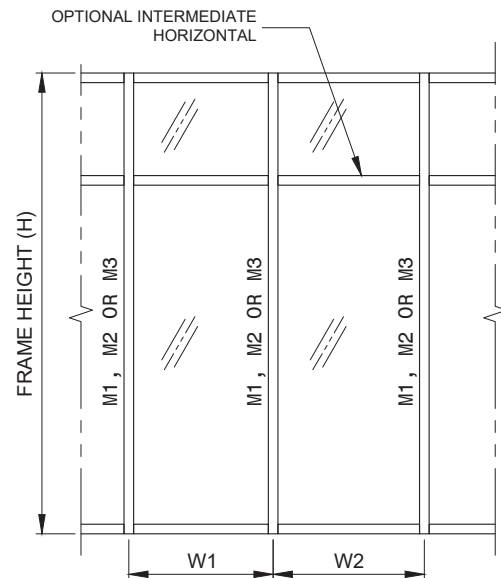
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INTERLAYER
AS PER SHT. 3

GLASS LOAD CAPACITY (psf)																							
DLO (in)		G-A1		G-B1		G-A2		G-B2		G-B3		G-A4		G-A5		G-B5		G-A6		G-B6		G-A7 / G-B7 (Level E)	
		EXT.	INT.	EXT.	INT.	EXT.	INT.	EXT.	INT.	EXT.	INT.	EXT.	INT.	EXT.	INT.	EXT.	INT.	EXT.	INT.	EXT.	INT.	EXT.	INT.
Width	Height	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)
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42.00		87	87	-	-	100	100	65	80	85	105	100	100	-	-	-	-	-	-	-	-	85	85
45.00		87	87	-	-	100	100	65	80	85	105	100	100	-	-	-	-	-	-	-	-	85	85
48.00		87	87	-	-	100	100	-	-	85	105	100	100	-	-	-	-	-	-	-	-	85	85
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42.00	87		87	-	-	100	100	65	80	85	105	100	100	-	-	-	-	-	-	-	-	85	85
45.00	87		87	-	-	100	100	65	80	85	105	100	100	-	-	-	-	-	-	-	-	85	85
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39.00	87		87	-	-	100	100	-	-	85	105	100	100	-	-	-	-	-	-	-	-	85	85
42.00	87		87	-	-	100	100	-	-	85	105	100	100	-	-	-	-	-	-	-	-	-	-
45.50	87		87	-	-	100	100	-	-	85	105	100	100	-	-	-	-	-	-	-	-	-	-
48.00	87		87	-	-	100	100	-	-	-	-	100	100	-	-	-	-	-	-	-	-	-	-

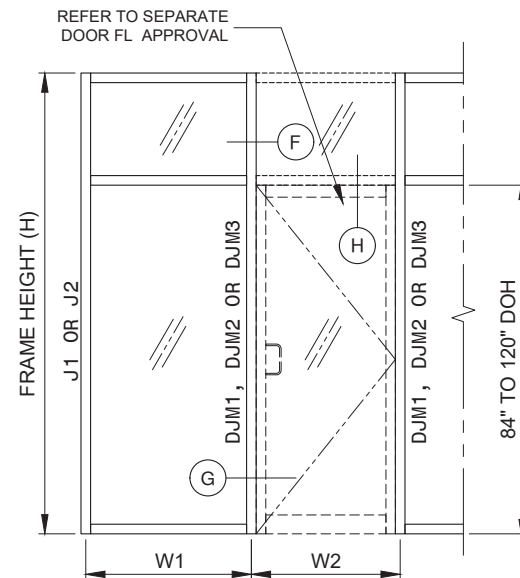


WIDTH (W) = W1 (JAMB)

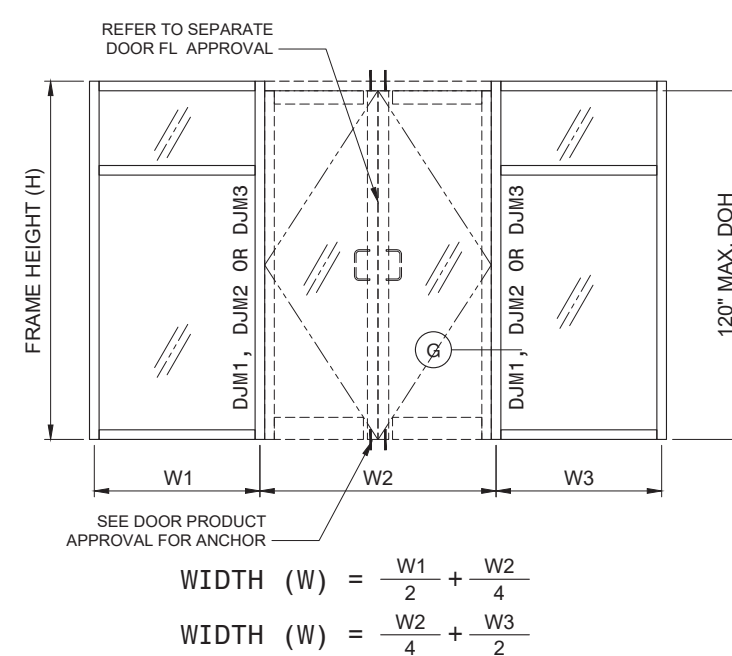


WIDTH (W) = $\frac{W1 + W2}{2}$

ELEVATION 2

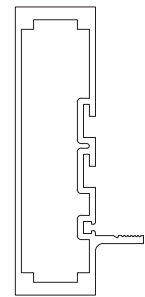


ELEVATION 3



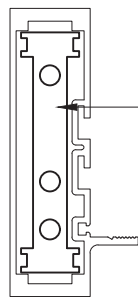
WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$

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



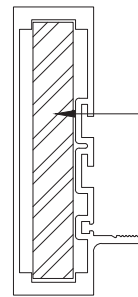
J1/DJM1

PART NO.	Ix (in ⁴)
3001R	4.078



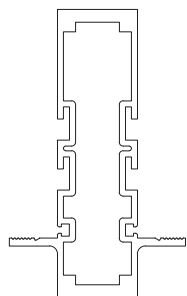
J2/DJM2

PART NO.	Ix (in ⁴)
3001R	4.078
3104 / 3104R	2.696
TOTAL (IN ALUM.)	6.774



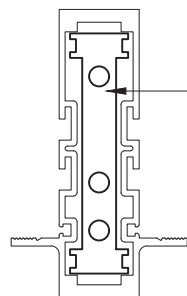
DJM3

PART NO.	Ix (in ⁴)
3001R	4.078
ST310	3.333 x 2.9
TOTAL (IN ALUM.)	13.744



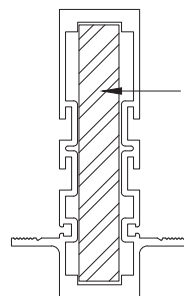
M1

PART NO.	Ix (in ⁴)
3002R	4.297



M2

PART NO.	Ix (in ⁴)
3002R	4.297
3104 / 3104R	2.696
TOTAL (IN ALUM.)	6.993



M3

PART NO.	Ix (in ⁴)
3002R	4.297
ST310	3.333 x 2.9
TOTAL (IN ALUM.)	13.963

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

PRODUCT:

3000R Impact Storefront System

LMI - HVHZ

Resistor
BLAST & STORM PROTECTION™

REVN	DATE/REMARKS
1	10/19/2024: 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:

FL46132

DATE: DECEMBER 20, 2023

DRAWN: Erick	CHK: ESN
DRWG. No: 23FL-105	SCALE: NTS

SHEET NO.:

5 of 16

JAMB/MULLION CAPACITIES (psf)													
Dimensions (in)		M1		DJM1		J1/M2		DJM2		M3		DJM3	
W	H	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
42	78	65.0	80.0	65.0	80.0	85.0	105.0	85.0	105.0	85.0	105.0	85.0	105.0
48	78	65.0	80.0	65.0	80.0	85.0	105.0	85.0	95.5	85.0	105.0	85.0	105.0
54	78	65.0	80.0	65.0	80.0	85.0	93.4	84.9	84.9	85.0	105.0	85.0	105.0
60	78	65.0	80.0	65.0	80.0	84.1	84.1	76.4	76.4	85.0	105.0	85.0	105.0
66	78	65.0	77.3	65.0	75.7	76.5	76.5	69.5	69.5	85.0	105.0	85.0	105.0
72	78	65.0	70.9	65.0	69.4	70.1	70.1	63.7	63.7	85.0	105.0	85.0	105.0
36	84	65.0	80.0	65.0	80.0	85.0	105.0	85.0	105.0	85.0	105.0	85.0	105.0
42	84	65.0	80.0	65.0	80.0	85.0	103.6	85.0	101.4	85.0	105.0	85.0	105.0
48	84	65.0	80.0	65.0	80.0	85.0	90.6	85.0	88.7	85.0	105.0	85.0	105.0
54	84	65.0	80.0	65.0	78.3	80.6	80.6	78.9	78.9	85.0	105.0	85.0	105.0
60	84	65.0	73.3	65.0	70.4	72.5	72.5	71.0	71.0	85.0	105.0	85.0	105.0
66	84	65.0	66.7	64.0	64.0	65.9	65.9	64.5	64.5	85.0	105.0	85.0	105.0
72	84	-	-	-	-	60.4	60.4	59.1	59.1	85.0	105.0	85.0	105.0
36	90	65.0	80.0	65.0	80.0	85.0	105.0	85.0	105.0	85.0	105.0	85.0	105.0
42	90	65.0	80.0	65.0	80.0	85.0	90.2	85.0	90.2	85.0	105.0	85.0	105.0
48	90	65.0	75.5	65.0	71.6	79.0	79.0	79.0	79.0	85.0	105.0	85.0	105.0
54	90	65.0	67.1	63.6	63.6	70.2	70.2	70.2	70.2	85.0	105.0	85.0	105.0
60	90	60.4	60.4	57.3	57.3	63.2	63.2	63.2	63.2	85.0	105.0	85.0	105.0
66	90	-	-	-	-	57.4	57.4	57.4	57.4	85.0	105.0	85.0	105.0
72	90	-	-	-	-	52.6	52.6	52.6	52.6	85.0	102.7	85.0	101.1
30	96	65.0	80.0	65.0	80.0	85.0	105.0	85.0	105.0	85.0	105.0	85.0	105.0
36	96	65.0	80.0	65.0	78.7	85.0	92.5	85.0	92.5	85.0	105.0	85.0	105.0
42	96	65.0	71.1	65.0	67.4	79.3	79.3	79.3	79.3	85.0	105.0	85.0	105.0
48	96	62.2	62.2	59.0	59.0	69.4	69.4	69.4	69.4	85.0	105.0	85.0	105.0
54	96	55.3	55.3	52.4	52.4	61.7	61.7	61.7	61.7	85.0	105.0	85.0	105.0
60	96	49.7	49.7	47.2	47.2	55.5	55.5	55.5	55.5	85.0	105.0	85.0	105.0
66	96	-	-	-	-	50.5	50.5	50.5	50.5	85.0	98.5	85.0	96.9
72	96	-	-	-	-	46.3	46.3	46.3	46.3	85.0	90.3	85.0	88.9
24	102	65.0	80.0	65.0	80.0	85.0	105.0	85.0	105.0	85.0	105.0	85.0	105.0
30	102	65.0	80.0	65.0	78.7	85.0	98.4	85.0	98.4	85.0	105.0	85.0	105.0
36	102	65.0	69.1	65.0	65.6	82.0	82.0	82.0	82.0	85.0	105.0	85.0	105.0
42	102	59.2	59.2	56.2	56.2	70.3	70.3	70.3	70.3	85.0	105.0	85.0	105.0
48	102	51.8	51.8	49.2	49.2	61.5	61.5	61.5	61.5	85.0	105.0	85.0	105.0
54	102	46.1	46.1	43.7	43.7	54.6	54.6	54.6	54.6	85.0	105.0	85.0	105.0
60	102	-	-	-	-	49.2	49.2	49.2	49.2	85.0	96.0	85.0	94.5
66	102	-	-	-	-	44.7	44.7	44.7	44.7	85.0	87.2	85.0	85.9

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

JAMB/MULLION CAPACITIES (psf)													
Dimensions (in)		M1		DJM1		J1/M2		DJM2		M3		DJM3	
W	H	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	108	65.0	80.0	65.0	80.0	85.0	105.0	85.0	105.0	85.0	105.0	85.0	105.0
30	108	65.0	69.9	65.0	66.3	85.0	87.7	85.0	87.7	85.0	105.0	85.0	105.0
36	108	58.2	58.2	55.2	55.2	73.1	73.1	73.1	73.1	85.0	105.0	85.0	105.0
42	108	49.9	49.9	47.4	47.4	62.7	62.7	62.7	62.7	85.0	105.0	85.0	105.0
48	108	43.7	43.7	41.4	41.4	54.8	54.8	54.8	54.8	85.0	105.0	85.0	105.0
54	108	-	-	-	-	48.7	48.7	48.7	48.7	85.0	95.1	85.0	93.6
60	108	-	-	-	-	43.9	43.9	43.9	43.9	85.0	85.6	84.3	84.3
24	114	65.0	74.3	65.0	70.5	85.0	98.4	85.0	98.4	85.0	105.0	85.0	105.0
30	114	59.4	59.4	56.4	56.4	78.7	78.7	78.7	78.7	85.0	105.0	85.0	105.0
36	114	49.5	49.5	47.0	47.0	65.6	65.6	65.6	65.6	85.0	105.0	85.0	105.0
42	114	42.4	42.4	40.3	40.3	56.2	56.2	56.2	56.2	85.0	105.0	85.0	105.0
48	114	37.1	37.1	35.2	35.2	49.2	49.2	49.2	49.2	85.0	96.0	85.0	94.5
54	114	-	-	-	-	43.7	43.7	43.7	43.7	85.0	85.4	84.0	84.0
60	114	-	-	-	-	39.4	39.4	39.4	39.4	76.8	76.8	75.6	75.6
24	120	63.7	63.7	60.4	60.4	85.0	88.8	85.0	88.8	85.0	105.0	85.0	105.0
30	120	50.9	50.9	48.3	48.3	71.1	71.1	71.1	71.1	85.0	105.0	85.0	105.0
36	120	42.4	42.4	40.3	40.3	59.2	59.2	59.2	59.2	85.0	105.0	85.0	105.0
42	120	36.4	36.4	34.5	34.5	50.8	50.8	50.8	50.8	85.0	99.1	85.0	97.5
48	120	31.8	31.8	30.2	30.2	44.4	44.4	44.4	44.4	85.0	86.7	85.0	85.3
54	120	-	-	-	-	39.5	39.5	39.5	39.5	77.0	77.0	75.8	75.8
24	126	55.0	55.0	52.2	52.2	80.6	80.6	80.6	80.6	85.0	105.0	85.0	105.0
30	126	44.0	44.0	41.7	41.7	64.5	64.5	64.5	64.5	85.0	105.0	85.0	105.0
36	126	36.7	36.7	34.8	34.8	53.7	53.7	53.7	53.7	85.0	104.8	85.0	103.2
42	126	31.4	31.4	29.8	29.8	46.0	46.0	46.0	46.0	85.0	89.8	85.0	88.4
48	126	-	-	-	-	40.3	40.3	40.3	40.3	78.6	78.6	77.4	77.4
54	126	-	-	-	-	35.8	35.8	35.8	35.8	69.9	69.9	68.8	68.8
24	132	47.8	47.8	45.4	45.4	73.4	73.4	73.4	73.4	85.0	105.0	85.0	105.0
30	132	38.3	38.3	36.3	36.3	58.7	58.7	58.7	58.7	85.0	105.0	85.0	105.0
36	132	31.9	31.9	30.3	30.3	48.9	48.9	48.9	48.9	85.0	93.6	85.0	93.6
42	132	27.3	27.3	25.9	25.9	42.0	42.0	42.0	42.0	80.2	80.2	80.2	80.2
48	132	-	-	-	-	36.7	36.7	36.7	36.7	70.2	70.2	70.2	70.2
24	138	41.9	41.9	39.7	39.7	67.2	67.2	66.0	66.0	85.0	105.0	85.0	105.0
30	138	33.5	33.5	31.8	31.8	53.7	53.7	52.8	52.8	85.0	98.3	85.0	98.3
36	138	27.9	27.9	26.5	26.5	44.8	44.8	44.0	44.0	81.9	81.9	81.9	81.9
42	138	-	-	-	-	38.4	38.4	37.7	37.7	70.2	70.2	70.2	70.2
48	138	-	-	-	-	33.6	33.6	33.0	33.0	61.4	61.4	61.4	61.4
24	144	36.8	36.8	35.0	35.0	60.0	60.0	58.1	58.1	85.0	105.0	85.0	105.0
30	144	29.5	29.5	28.0	28.0	48.0	48.0	46.5	46.5	85.0	86.5	85.0	86.5
36	144	24.6	24.6	23.3	23.3	40.0	40.0	38.7	38.7	72.1	72.1	72.1	72.1
42	144	-	-	-	-	34.3	34.3	33.2	33.2	61.8	61.8	61.8	61.8
48	144	-	-	-	-	30.0	30.0	29.0	29.0	54.1	54.1	54.1	54.1

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Alpharetta GA, 30009
p. 800-432-8132

PRODUCT:

3000R Impact
Storefront System

LMI - HVHZ

Resistor

BLAST & STORM PROTECTION™

REV#	DATE/REMARKS
1	10/19/2024: 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. 79498

STATE OF FLORIDA

PROFESSIONAL ENGINEER

FLORIDA PRODUCT APPROVAL:

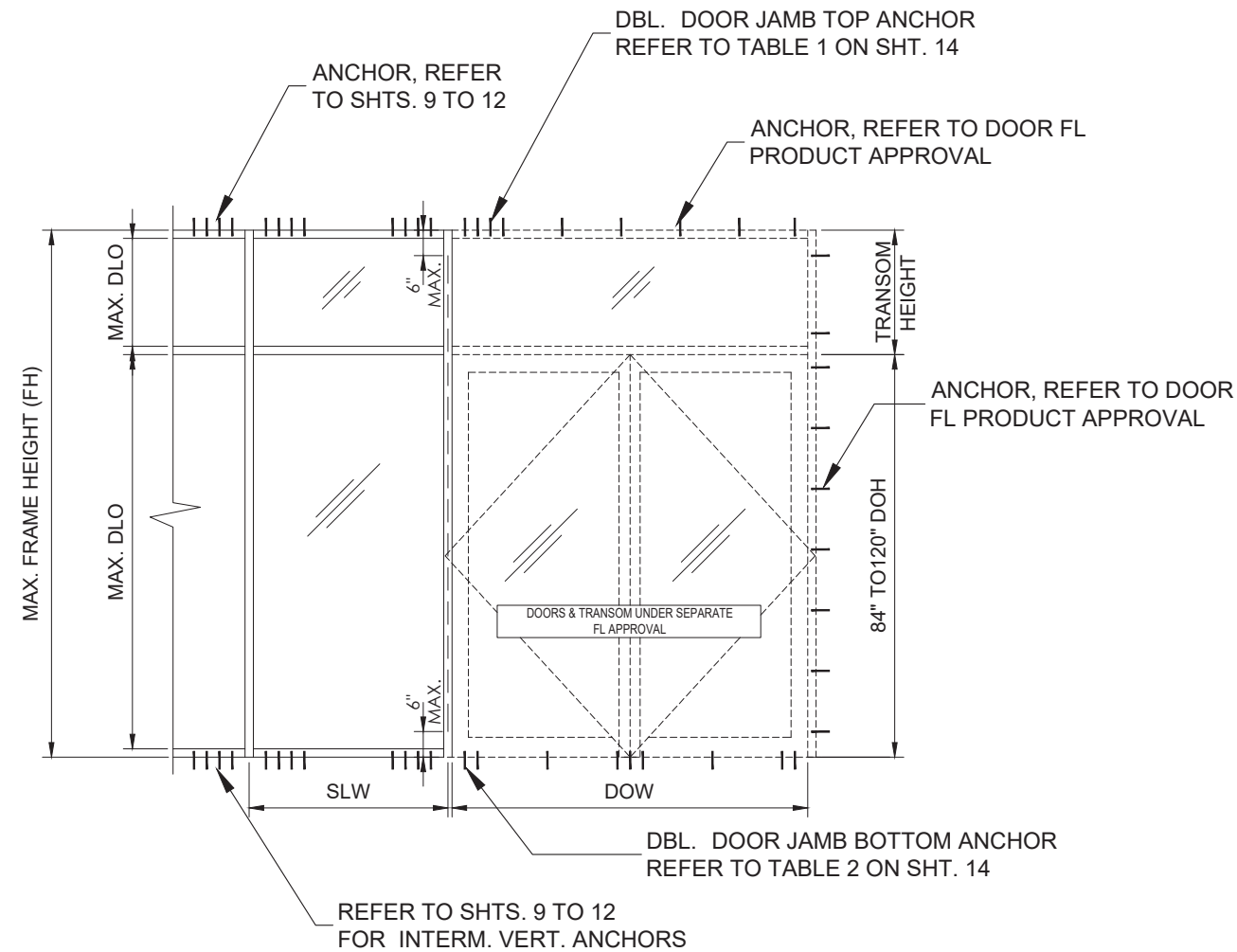
FL46132

DATE: DECEMBER 20, 2023

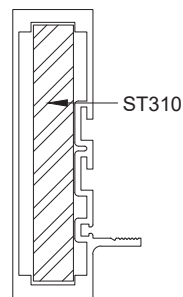
DRAWN: Erick	CHK: ESN
DRWG. No: 23FL-105	SCALE: NTS

SHEET NO.:

6 of 16



ELEVATION 4



DDJ (DOUBLE DOOR JAMB)

PART NO.	Ix (in ⁴)
3001R	4.078
ST310	3.333 x 2.9
TOTAL (IN ALUM.)	13.744

DOUBLE DOOR JAMB CAPACITY (psf)						
Nominal Dimensions				DDJ		
FH	SLW	DOW	DOH	EXT (+)	INT. (-)	
102	60	72	84	60.0	75.0	
108	60	72	84	60.0	75.0	
114	60	72	84	60.0	75.0	
120	54	72	84	60.0	75.0	
120	60	72	84	60.0	74.2	
126	36	72	84	60.0	75.0	
126	42	72	84	60.0	74.2	
126	48	72	84	60.0	70.1	
126	54	72	84	60.0	66.5	
126	60	72	84	60.0	63.2	
132	24	72	84	60.0	75.0	
132	30	72	84	60.0	71.9	
132	36	72	84	60.0	67.5	
132	42	72	84	60.0	63.7	
132	48	72	84	60.0	60.2	
132	54	72	84	57.2	57.2	
144	24	72	84	58.0	58.0	
144	30	72	84	54.3	54.3	
144	36	72	84	51.1	51.1	
144	42	72	84	48.2	48.2	
144	48	72	84	45.7	45.7	
102	60	72	90	60.0	75.0	
108	60	72	90	60.0	75.0	
114	60	72	90	60.0	75.0	
120	60	72	90	60.0	75.0	
126	42	72	90	60.0	75.0	
126	48	72	90	60.0	71.8	
126	54	72	90	60.0	68.0	
126	60	72	90	60.0	64.6	
132	24	72	90	60.0	75.0	
132	30	72	90	60.0	73.6	
132	36	72	90	60.0	69.0	
132	42	72	90	60.0	65.0	
132	48	72	90	60.0	61.4	
132	54	72	90	58.2	58.2	
144	24	72	90	58.9	58.9	
144	30	72	90	55.1	55.1	
144	36	72	90	51.8	51.8	
144	42	72	90	48.8	48.8	
144	48	72	90	46.2	46.2	
102	60	72	96	60.0	75.0	
108	60	72	96	60.0	75.0	
114	60	72	96	60.0	75.0	
120	60	72	96	60.0	75.0	
126	42	72	96	60.0	75.0	
126	48	72	96	60.0	73.9	
126	54	72	96	60.0	69.9	
126	60	72	96	60.0	66.3	
132	24	72	96	60.0	75.0	
132	30	72	96	60.0	75.0	
132	36	72	96	60.0	70.9	
132	42	72	96	60.0	66.7	
132	48	72	96	60.0	62.9	
132	54	72	96	59.6	59.6	

DOUBLE DOOR JAMB CAPACITY (psf)						
Nominal Dimensions				DDJ		
FH	SLW	DOW	DOH	EXT (+)	INT. (-)	
138	24	72	96	60.0	69.5	
138	30	72	96	60.0	64.9	
138	36	72	96	60.0	60.9	
138	42	72	96	57.3	57.3	
138	48	72	96	54.1	54.1	
144	24	72	96	60.0	60.1	
144	30	72	96	56.2	56.2	
144	36	72	96	52.7	52.7	
144	42	72	96	49.7	49.7	
144	48	72	96	47.0	47.0	
102	60	72	102	60.0	75.0	
108	60	72	102	60.0	75.0	
114	60	72	102	60.0	75.0	
120	60	72	102	60.0	75.0	
126	48	72	102	60.0	75.0	
126	54	72	102	60.0	72.2	
126	60	72	102	60.0	68.3	
132	30	72	102	60.0	75.0	
132	36	72	102	60.0	73.3	
132	42	72	102	60.0	68.7	
132	48	72	102	60.0	64.8	
132	54	72	102	60.0	61.2	
144	24	72	102	60.0	61.7	
144	30	72	102	57.6	57.6	
144	36	72	102	54.0	54.0	
144	42	72	102	50.8	50.8	
144	48	72	102	47.9	47.0	
102	60	72	108	60.0	75.0	
108	60	72	108	60.0	75.0	
114	60	72	108	60.0	75.0	
120	60	72	108	60.0	75.0	
126	48	72	108	60.0	75.0	
126	54	72	108	60.0	74.8	
126	60	72	108	60.0	70.7	
132	24	72	108	60.0	75.0	
132	30	72	108	60.0	75.0	
132	36	72	108	60.0	75.0	
132	42	72	108	60.0	71.2	
132	48	72	108	60.0	66.9	
132	54	72	108	60.0	63.1	
144	24	72	108	60.0	63.7	
144	30	72	108	59.3	59.3	
144	36	72	108	55.5	55.5	
144	42	72	108	52.1	52.1	
144	48	72	108	49.1	47.0	
102	60	72	114	60.0	75.0	
108	60	72	114	60.0	75.0	
114	60	72	114	60.0	75.0	
120	60	72	114	60.0	75.0	
126	54	72	114	60.0	75.0	
126	60	72	114	60.0	73.4	

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:

3000R Impact
Storefront System

LMI - HVHZ



BLAST & STORM PROTECTION™

REVN	DATE/REMARKS
1	10/19/2024: LEVEL "E" IMPACT QUALIFICATION

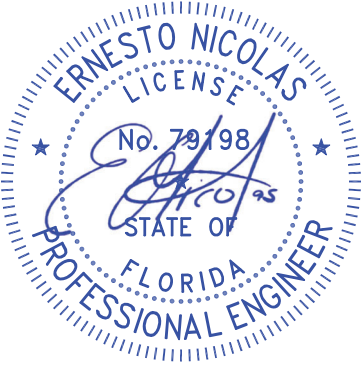
ENGINEER:



En3 Engineering & Consultancy

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

STAMP:



FLORIDA PRODUCT APPROVAL:

FL46132

DATE: DECEMBER 20, 2023

DRAWN: Erick	CHK: ESN
DRWG. No: 23FL-105	SCALE: NTS

SHEET NO.:

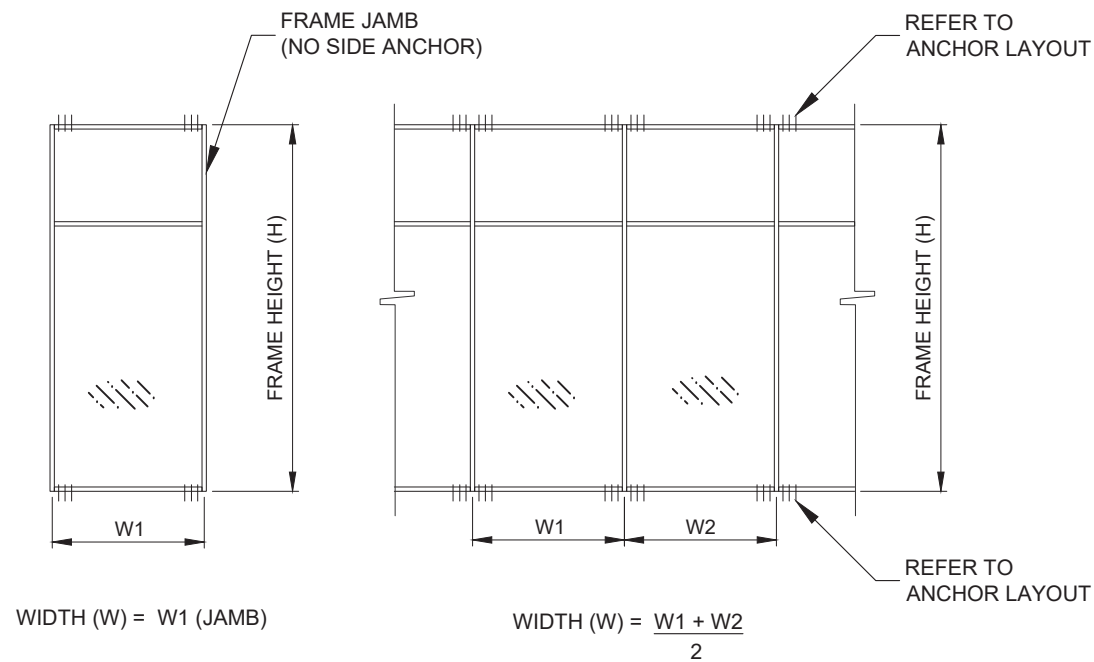
7 of 16

DOUBLE DOOR JAMB CAPACITY (psf)						
Nominal Dimensions				DDJ		
FH	SLW	DOW	DOH	EXT (+)	INT. (-)	
132	24	72	114	60.0	75.0	
132	30	72	114	60.0	75.0	
132	36	72	114	60.0	75.0	
132	42	72	114	60.0	74.1	
132	48	72	114	60.0	69.5	
132	54	72	114	60.0	65.4	
144	24	72	114	60.0	66.1	
144	30	72	114	60.0	61.4	
144	36	72	114	57.3	57.3	
144	42	72	114	53.7	53.7	
144	48	72	114	50.0	47.0	
102	60	72	120	60.0	75.0	
108	60	72	120	60.0	75.0	
114	60	72	120	60.0	75.0	
120	60	72	120	60.0	75.0	
126	60	72	120	60.0	75.0	
132	42	72	120	60.0	75.0	
132	48	72	120	60.0	72.4	
132	54	72	120	60.0	68.0	
144	24	72	120	60.0	68.9	
144	30	72	120	60.0	63.8	
144	36	72	120	59.4	59.4	
144	42	72	120	55.5	55.5	
144	48	72	120	50.0	47.0	

DOUBLE DOOR JAMB CAPACITY (psf)						
Nominal Dimensions				DDJ		
FH	SLW	DOW	DOH	EXT (+)	INT. (-)	
102	60	84	84	60.0	75.0	
108	60	84	84	60.0	75.0	
114	60	84	84	60.0	75.0	
120	54	84	84	60.0	72.0	
120	60	84	84	60.0	68.6	
126	24	84	84	60.0	75.0	
126	30	84	84	60.0	75.0	
126	36	84	84	60.0	71.4	
126	42	84	84	60.0	67.6	
126	48	84	84	60.0	64.2	
132	24	84	84	60.0	68.7	
132	30	84	84	60.0	64.7	
132	36	84	84	60.0	61.2	
132	42	84	84	58.0	58.0	
144	24	84	84	51.8	51.8	
144	30	84	84	48.9	48.9	
144	36	84	84	46.2	46.2	
102	60	84	90	60.0	75.0	
108	60	84	90	60.0	75.0	
114	60	84	90	60.0	75.0	
120	48	84	90	60.0	75.0	
120	54	84	90	60.0	74.1	
120	60	84	90	60.0	70.6	
126	24	84	90	60.0	75.0	
126	30	84	90	60.0	75.0	
126	36	84	90	60.0	73.4	
126	42	84	90	60.0	69.4	
126	48	84	90	60.0	65.9	
132	24	84	90	60.0	70.5	
132	30	84	90	60.0	66.3	
132	36	84	90	60.0	62.6	
132	42	84	90	59.3	59.3	
144	24	84	90	52.6	52.6	
144	30	84	90	49.6	49.6	
144	36	84	90	46.9	46.9	
102	60	84	96	60.0	75.0	
108	60	84	96	60.0	75.0	
114	60	84	96	60.0	75.0	
120	60	84	96	60.0	73.0	
126	30	84	96	60.0	75.0	
126	36	84	96	60.0	75.0	
126	42	84	96	60.0	71.7	
126	48	84	96	60.0	67.9	
132	24	84	96	60.0	72.8	
132	30	84	96	60.0	68.4	
132	36	84	96	60.0	64.4	
132	42	84	96	60.0	60.9	
138	24	84	96	60.0	62.3	
138	30	84	96	58.5	58.5	
138	36	84	96	55.2	55.2	

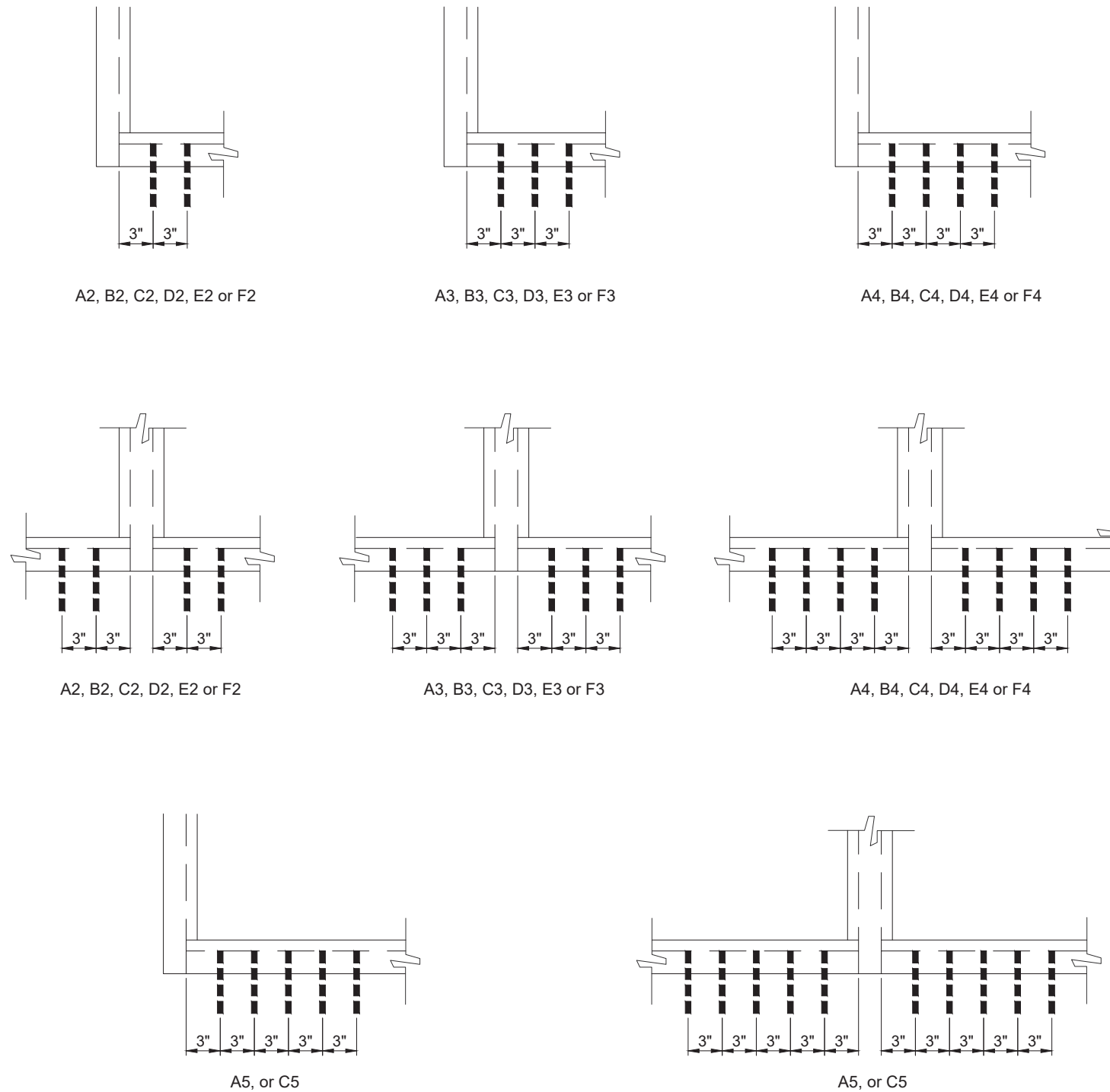
DOUBLE DOOR JAMB CAPACITY (psf)						
Nominal Dimensions				DDJ		
FH	SLW	DOW	DOH	EXT (+)	INT. (-)	
144	24	84	96	53.8	53.8	
144	30	84	96	50.6	50.6	
144	36	84	96	47.8	47.0	
102	60	84	102	60.0	75.0	
108	60	84	102	60.0	75.0	
114	24	84	102	60.0	75.0	
114	60	84	102	60.0	75.0	
120	60	84	102	60.0	75.0	
126	36	84	102	60.0	75.0	
126	42	84	102	60.0	74.5	
126	48	84	102	60.0	70.4	
132	24	84	102	60.0	75.0	
132	30	84	102	60.0	70.9	
132	36	84	102	60.0	66.7	
132	42	84	102	60.0	62.9	
144	24	84	102	55.3	55.3	
144	30	84	102	51.9	51.9	
144	36	84	102	49.0	47.0	
102	60	84	108	60.0	75.0	
108	60	84	108	60.0	75.0	
114	60	84	108	60.0	75.0	
120	60	84	108	60.0	75.0	
126	42	84	108	60.0	75.0	
126	48	84	108	60.0	73.4	
132	24	84	108	60.0	75.0	
132	30	84	108	60.0	74.0	
132	36	84	108	60.0	69.4	
132	42	84	108	60.0	65.3	
144	24	84	108	57.1	57.1	
144	30	84	108	53.6	53.6	
144	36	84	108	50.0	47.0	
102	60	84	114	60.0	75.0	
108	60	84	114	60.0	75.0	
114	60	84	114	60.0	75.0	
120	60	84	114	60.0	75.0	
126	48	84	114	60.0	75.0	
132	24	84	114	60.0	75.0	
132	30	84	114	60.0	75.0	
132	36	84	114	60.0	72.6	
132	42	84	114	60.0	68.1	
144	24	84	114	59.4	59.4	
144	30	84	114	55.5	55.5	
144	36	84	114	50.0	47.0	
102	60	84	120	60.0	75.0	
108	60	84	120	60.0	75.0	
114	60	84	120	60.0	75.0	
120	60	84	120	60.0	75.0	
126	48	84	120	60.0	75.0	
132	36	84	120	60.0	75.0	
132	42	84	120	60.0	71.4	
144	24	84	120	60.0	62.0	
144	30	84	120	57.8	57.8	
144	36	84	120	50.0	47.0	

DOUBLE DOOR JAMB CAPACITY (psf)						
Nominal Dimensions				DDJ		
FH	SLW	DOW	DOH	EXT (+)	INT. (-)	
102	60	96	84	60.0	75.0	
108	60	96	84	60.0	75.0	
114	54	96	84	60.0	75.0	
120	36	96	84	60.0	75.0	
120	42	96	84	60.0	73.3	
120	48	96	84	60.0	69.8	
126	24	96	84	60.0	72.7	
126	30	96	84	60.0	68.8	
126	36	96	84	60.0	65.3	
132	24	96	84	60.0	62.1	
132	30	96	84	58.9	58.9	
144	24	96	84	46.8	46.8	
102	60	96	90	60.0	75.0	
108	60	96	90	60.0	75.0	
114	54	96	90	60.0	75.0	
120	42	96	90	60.0	75.0	
120	48	96	90	60.0	72.1	
126	24	96	90	60.0	75.0	
126	30	96	90	60.0	70.9	
126	36	96	90	60.0	67.2	
132	24	96	90	60.0	63.8	
132	30	96	90	60.0	60.3	
144	24	96	90	47.6	47.0	
102	60	96	96	60.0	75.0	
108	60	96	96	60.0	75.0	
114	54	96	96	60.0	75.0	
120	48	96	96	60.0	75.0	
126	24	96	96	60.0	75.0	
126	30	96	96	60.0	73.7	
126	36	96	96	60.0	69.7	
132	24	96	96	60.0	66.0	
132	30	96	96	60.0	62.3	
138	24	96	96	56.4	56.4	
144	24	96	96	48.7	47.0	
102	60	96	102	60.0	75.0	
108	60	96	102	60.0	75.0	
114	54	96	102	60.0	75.0	



ELEVATION 5

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 LAYOUT

REFER TO SHTS. 10 & 11 FOR CAPACITIES



GLASS & ALUMINUM SOLUTIONS™

<http://www.trulite.com>

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

PRODUCT:

3000R Impact
Storefront System

LMI - HVHZ



BLAST & STORM PROTECTION™

REVN	DATE/REMARKS
1	10/19/2024: LEVEL "E" IMPACT QUALIFICATION

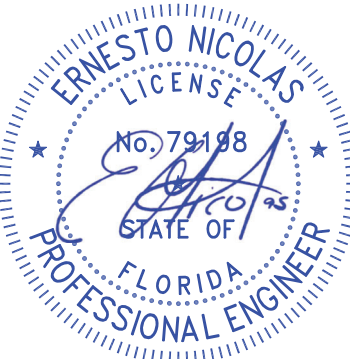
ENGINEER:



En3 Engineering & Consultancy

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

STAMP:



FLORIDA PRODUCT APPROVAL:

FL46132

DATE: DECEMBER 20, 2023

DRAWN: Erick	CHK: ESN
DRWG. No: 23FL-105	SCALE: NTS

SHEET NO.:

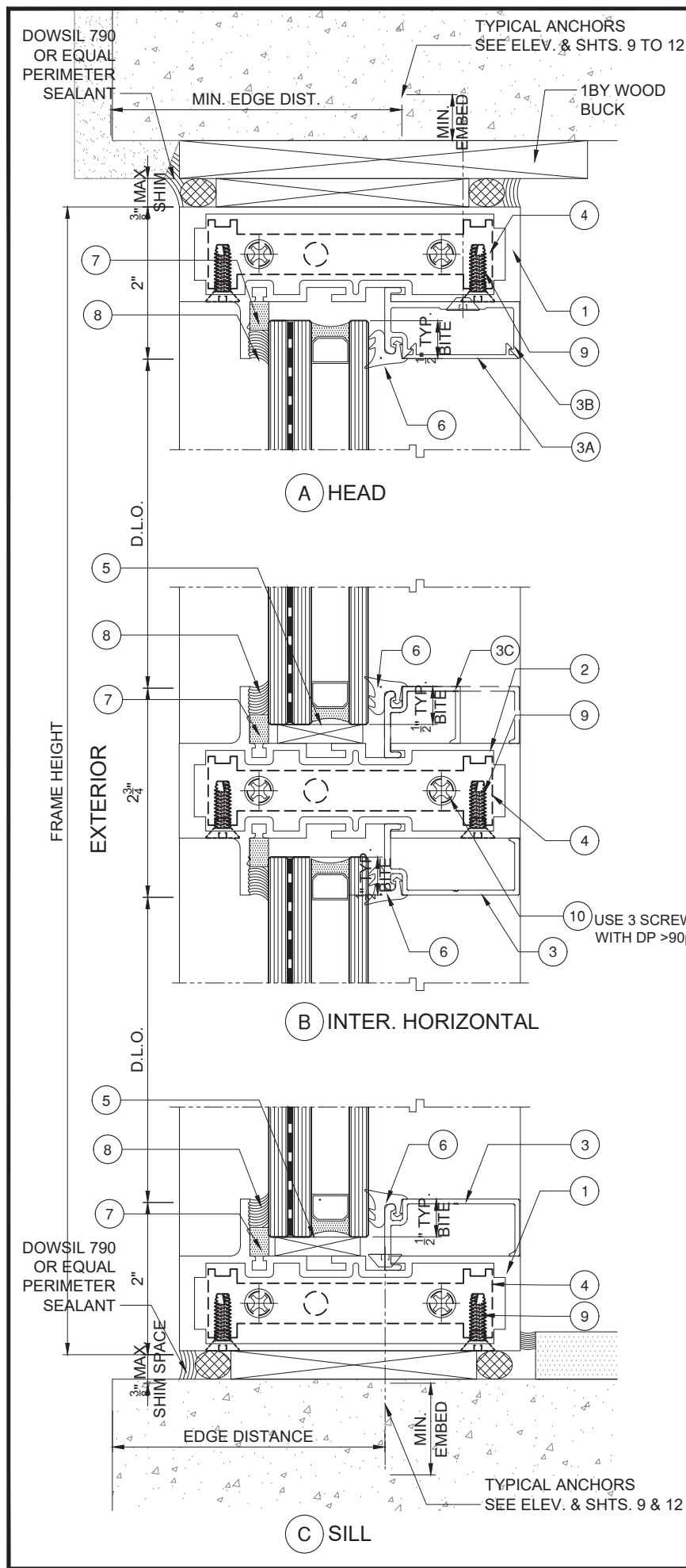
9 of 16

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	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	
36		102.8	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	
42		88.1	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	
48		77.1	105.0	105.0	93.1	105.0	105.0	93.1	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	
54		68.5	102.8	105.0	82.7	105.0	105.0	82.7	105.0	105.0	105.0	105.0	93.7	105.0	97.0	105.0	
60		61.7	92.5	105.0	74.5	105.0	105.0	74.5	105.0	105.0	105.0	105.0	84.4	105.0	87.3	105.0	
66		56.1	84.1	105.0	67.7	101.6	105.0	67.7	101.6	105.0	97.3	105.0	76.7	105.0	79.3	105.0	
72		51.4	77.1	102.8	62.1	93.1	105.0	62.1	93.1	105.0	89.2	105.0	70.3	105.0	72.7	105.0	
30	72	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	
36		94.2	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	
42		80.8	105.0	105.0	97.5	105.0	105.0	97.5	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	
48		70.7	105.0	105.0	85.3	105.0	105.0	85.3	105.0	105.0	105.0	105.0	96.7	105.0	100.0	105.0	
54		62.8	94.2	105.0	75.9	105.0	105.0	75.9	105.0	105.0	105.0	105.0	85.9	105.0	88.9	105.0	
60		56.5	84.8	105.0	68.3	102.4	105.0	68.3	102.4	105.0	98.1	105.0	77.3	105.0	80.0	105.0	
66		51.4	77.1	102.8	62.1	93.1	105.0	62.1	93.1	105.0	89.2	105.0	70.3	105.0	72.7	105.0	
72		47.1	70.7	94.2	56.9	85.3	105.0	56.9	85.3	105.0	81.8	105.0	64.4	96.7	66.7	100.0	
30	78	104.4	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	
36		87.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	
42		74.5	105.0	105.0	90.0	105.0	105.0	90.0	105.0	105.0	105.0	105.0	102.0	105.0	105.0	105.0	
48		65.2	97.8	105.0	78.8	105.0	105.0	78.8	105.0	105.0	105.0	105.0	89.2	105.0	92.3	105.0	
54		58.0	87.0	105.0	70.0	105.0	105.0	70.0	105.0	105.0	100.6	105.0	79.3	105.0	82.1	105.0	
60		52.2	78.3	104.4	63.0	94.5	105.0	63.0	94.5	105.0	90.6	105.0	71.4	105.0	73.8	105.0	
66		47.4	71.2	94.9	57.3	85.9	105.0	57.3	85.9	105.0	82.3	105.0	64.9	97.3	67.1	100.7	
72		43.5	65.2	87.0	52.5	78.8	105.0	52.5	78.8	105.0	75.5	105.0	59.5	89.2	61.5	92.3	
30	84	96.9	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	
36		80.8	105.0	105.0	97.5	105.0	105.0	97.5	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	
42		69.2	103.8	105.0	83.6	105.0	105.0	83.6	105.0	105.0	105.0	105.0	94.7	105.0	98.0	105.0	
48		60.6	90.9	105.0	73.1	105.0	105.0	73.1	105.0	105.0	105.0	105.0	82.9	105.0	85.7	105.0	
54		53.8	80.8	105.0	65.0	97.5	105.0	65.0	97.5	105.0	93.5	105.0	73.7	105.0	76.2	105.0	
60		48.5	72.7	96.9	58.5	87.8	105.0	58.5	87.8	105.0	84.1	105.0	66.3	99.4	68.6	102.9	
66		44.1	66.1	88.1	53.2	79.8	105.0	53.2	79.8	105.0	76.5	105.0	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	105.0	55.2	82.9	57.1	85.7	
30	90	90.5	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	
36		75.4	105.0	105.0	91.0	105.0	105.0	91.0	105.0	105.0	105.0	105.0	103.1	105.0	105.0	105.0	
42		64.6	96.9	105.0	78.0	105.0	105.0	78.0	105.0	105.0	105.0	105.0	88.4	105.0	91.4	105.0	
48		56.5	84.8	105.0	68.3	102.4	105.0	68.3	102.4	105.0	98.1	105.0	77.3	105.0	80.0	105.0	
54		50.3	75.4	100.5	60.7	91.0	105.0	60.7	91.0	105.0	87.2	105.0	68.7	103.1	71.1	105.0	
60		45.2	67.8	90.5	54.6	81.9	105.0	54.6	81.9	105.0	78.5	105.0	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	105.0	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	105.0	105.0	102.4	105.0	105.0	102.4	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	
36		70.7	105.0	105.0	85.3	105.0	105.0	85.3	105.0	105.0	105.0	105.0	96.7	105.0	100.0	105.0	
42		60.6	90.9	105.0	73.1	105.0	105.0	73.1	105.0	105.0	105.0	105.0	82.9	105.0	85.7	105.0	
48		53.0	79.5	105.0	64.0	96.0	105.0	64.0	96.0	105.0	92.0	105.0	72.5	105.0	75.0	105.0	
54		47.1	70.7	94.2	56.9	85.3	105.0	56.9	85.3	105.0	81.8	105.0	64.4	96.7	66.7	100.0	
60		42.4	63.6	84.8	51.2	76.8	102.4	51.2	76.8	102.4	73.6	105.0	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	100.4	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	105.0	105.0	96.4	105.0	105.0	96.4	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	
36		66.5	99.8	105.0	80.3	105.0	105.0	80.3	105.0	105.0	105.0	105.0	91.0	105.0	94.1	105.0	
42		57.0	85.5	105.0	68.8	103.3	105.0	68.8	103.3	105.0	99.0	105.0	78.0	105.0	80.7	105.0	
48		49.9	74.8	99.8	60.2	90.4	105.0	60.2	90.4	105.0	86.6	105.0	68.2	102.4	70.6	105.0	
54		44.3	66.5	88.7	53.5	80.3	105.0	53.5	80.3	105.0	77.0	105.0	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	103.9	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	105.0	105.0	91.0	105.0	105.0	91.0	105.0	105.0	105.0	105.0	103.1	105.0	105.0	105.0	
36		62.8	94.2	105.0	75.9	105.0	105.0	75.9	105.0	105.0	105.0	105.0	85.9	105.0	88.9	105.0	
42		53.8	80.8	105.0	65.0	97.5	105.0	65.0	97.5	105.0	93.5	105.0	73.7	105.0	76.2	105.0	
48		47.1	70.7	94.2	56.9	85.3	105.0	56.9	85.3	105.0	81.8	105.0	64.4	96.7	66.7	100.0	
54		41.9	62.8	83.8	50.6	75.9	101.1	50.6	75.9	101.1	72.7	105.0	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	105.0	105.0	86.2	105.0	105.0	86.2	105.0	105.0	105.0	105.0	97.7	105.0	101.1	105.0	
36		59.5	89.3	105.0	71.9	105.0	105.0	71.9	105.0	105.0	103.3	105.0	81.4	105.0	84.2	105.0	
42		51.0	76.5	102.0	61.6	92.4	105.0	61.6	92.4	105.0	88.5	105.0	69.8	104.7	72.2	105.0	
48		44.6	66.9	89.3	53.9	80.8	105.0	53.9	80.8	105.0	77.5	105.0	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	103.3	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	101.8	105.0	81.9	105.0	105.0	81.9	105.0	105.0	105.0	105.0	92.8	105.0	96.0	105.0	
36		56.5	84.8	105.0	68.3	102.4	105.0	68.3	102.4	105.0	98.1	105.0	77.3	105.0	80.0	105.0	
42		48.5	72.7	96.9	58.5	87.8	105.0	58.5	87.8	105.0	84.1	105.0	66.3	99.4	68.6	102.9	
48		42.4	63.6	84.8	51.2	76.8	102.4	51.2	76.8	102.4	73.6	105.0	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	105.0	78.0	105.0	105.0	78.0	105.0	105.0	105.0	105.0	88.4	105.0	91.4	105.0	
36		53.8	80.8	105.0	65.0	97.5	105.0	65.0	97.5	105.0	93.5	105.0	73.7	105.0	76.2	105.0	
42		46.1	69.2	92.3	55.7	83.6	105.0	55.7	83.6	105.0	80.1	105.0	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	105.0	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	105.0	74.5	105.0	105.0	74.5	105.0	105.0	105.0	105.0	84.4	105.0	87.3	105.0
36			51.4	77.1	102.8	62.1	93.1	105.0	62.1	93.1	105.0	89.2	105.0	70.3	105.0	72.7	105.0
42	44.1		66.1	88.1	53.2	79.8	105.0	53.2	79.8	105.0	76.5	105.0	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	100.4	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	105.0	71.2	105.0	105.0	71.2	105.0	105.0	102.4	105.0	80.7	105.0	83.5	105.0
36			49.2	73.7	98.3	59.4	89.0	105.0	59.4	89.0	105.0	85.3	105.0	67.2	100.9	69.6	104.3
42			42.1	63.2	84.3	50.9	76.3	101.8	50.9	76.3	101.8	73.1	105.0	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	105.0	105.0	85.3	105.0	105.0	85.3	105.0	105.0	105.0	105.0	96.7	105.0	100.0	105.0
30			56.5	84.8	105.0	68.3	102.4	105.0	68.3	102.4	105.0	98.1	105.0	77.3	105.0	80.0	105.0
36			47.1	70.7	94.2	56.9	85.3	105.0	56.9	85.3	105.0	81.8	105.0	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	105.0	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	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0		
36		88.2	105.0	105.0	105.0	105.0	105.0	105.0	88.2	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	104.2	105.0	105.0		
42		75.6	105.0	105.0	105.0	105.0	105.0	105.0	75.6	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	89.4	105.0	105.0		
48		66.2	99.3	105.0	105.0	93.1	105.0	105.0	66.2	99.3	105.0	105.0	96.4	105.0	105.0	96.4	105.0	105.0	78.2	105.0	105.0		
54		58.8	88.2	105.0	105.0	82.7	105.0	105.0	58.8	88.2	105.0	105.0	85.7	105.0	105.0	85.7	105.0	105.0	69.5	104.2	105.0		
60		52.9	79.4	105.0	105.0	74.5	105.0	105.0	52.9	79.4	105.0	105.0	77.1	105.0	105.0	77.1	105.0	105.0	62.5	93.8	105.0		
66		48.1	72.2	96.3	105.0	67.7	101.6	105.0	48.1	72.2	96.3	105.0	70.1	105.0	105.0	70.1	105.0	105.0	56.9	85.3	105.0		
72		44.1	66.2	88.2	105.0	62.1	93.1	105.0	44.1	66.2	88.2	105.0	64.2	96.4	105.0	64.2	96.4	105.0	52.1	78.2	104.2		
30	72	97.1	105.0	105.0	105.0	105.0	105.0	105.0	97.1	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0		
36		80.9	105.0	105.0	105.0	105.0	105.0	105.0	80.9	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	95.6	105.0	105.0			
42		69.3	104.0	105.0	105.0	97.5	105.0	105.0	69.3	104.0	105.0	105.0	101.0	105.0	105.0	101.0	105.0	105.0	81.9	105.0	105.0		
48		60.7	91.0	105.0	105.0	85.3	105.0	105.0	60.7	91.0	105.0	105.0	88.3	105.0	105.0	88.3	105.0	105.0	71.7	105.0	105.0		
54		53.9	80.9	105.0	105.0	75.9	105.0	105.0	53.9	80.9	105.0	105.0	78.5	105.0	105.0	78.5	105.0	105.0	63.7	95.6	105.0		
60		48.5	72.8	97.1	105.0	68.3	102.4	105.0	48.5	72.8	97.1	105.0	70.7	105.0	105.0	70.7	105.0	105.0	57.3	86.0	105.0		
66		44.1	66.2	88.2	105.0	62.1	93.1	105.0	44.1	66.2	88.2	105.0	64.2	96.4	105.0	64.2	96.4	105.0	52.1	78.2	104.2		
72		40.4	60.7	80.9	101.1	56.9	85.3	105.0	40.4	60.7	80.9	101.1	58.9	88.3	105.0	58.9	88.3	105.0	47.8	71.7	95.6		
30	78	89.6	105.0	105.0	105.0	105.0	105.0	105.0	89.6	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0		
36		74.7	105.0	105.0	105.0	105.0	105.0	105.0	74.7	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	88.2	105.0	105.0			
42		64.0	96.0	105.0	105.0	90.0	105.0	105.0	64.0	96.0	105.0	105.0	93.2	105.0	105.0	93.2	105.0	105.0	75.6	105.0	105.0		
48		56.0	84.0	105.0	105.0	78.8	105.0	105.0	56.0	84.0	105.0	105.0	81.5	105.0	105.0	81.5	105.0	105.0	66.2	99.2	105.0		
54		49.8	74.7	99.6	105.0	70.0	105.0	105.0	49.8	74.7	99.6	105.0	72.5	105.0	105.0	72.5	105.0	105.0	58.8	88.2	105.0		
60		44.8	67.2	89.6	105.0	63.0	94.5	105.0	44.8	67.2	89.6	105.0	65.2	97.8	105.0	65.2	97.8	105.0	52.9	79.4	105.0		
66		40.7	61.1	81.5	101.8	57.3	85.9	105.0	40.7	61.1	81.5	101.8	59.3	89.0	105.0	59.3	89.0	105.0	48.1	72.2	96.2		
72		37.3	56.0	74.7	93.3	52.5	78.8	105.0	37.3	56.0	74.7	93.3	54.4	81.5	105.0	54.4	81.5	105.0	44.1	66.2	88.2		
30	84	83.2	105.0	105.0	105.0	105.0	105.0	105.0	83.2	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	98.3	105.0	105.0		
36		69.3	104.0	105.0	105.0	97.5	105.0	105.0	69.3	104.0	105.0	105.0	101.0	105.0	105.0	101.0	105.0	105.0	81.9	105.0	105.0		
42		59.4	89.1	105.0	105.0	83.6	105.0	105.0	59.4	89.1	105.0	105.0	86.5	105.0	105.0	86.5	105.0	105.0	70.2	105.0	105.0		
48		52.0	78.0	104.0	105.0	73.1	105.0	105.0	52.0	78.0	104.0	105.0	75.7	105.0	105.0	75.7	105.0	105.0	61.4	92.1	105.0		
54		46.2	69.3	92.4	105.0	65.0	97.5	105.0	46.2	69.3	92.4	105.0	67.3	101.0	105.0	67.3	101.0	105.0	54.6	81.9	105.0		
60		41.6	62.4	83.2	104.0	58.5	87.8	105.0	41.6	62.4	83.2	104.0	60.6	90.9	105.0	60.6	90.9	105.0	49.1	73.7	98.3		
66		37.8	56.7	75.6	94.5	53.2	79.8	105.0	37.8	56.7	75.6	94.5	55.1	82.6	105.0	55.1	82.6	105.0	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	101.0	50.5	75.7	101.0	41.0	61.4	81.9		
30	90	77.7	105.0	105.0	105.0	105.0	105.0	105.0	77.7	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	91.7	105.0	105.0		
36		64.7	97.1	105.0	105.0	91.0	105.0	105.0	64.7	97.1	105.0	105.0	94.2	105.0	105.0	94.2	105.0	105.0	76.4	105.0	105.0		
42		55.5	83.2	105.0	105.0	78.0	105.0	105.0	55.5	83.2	105.0	105.0	80.8	105.0	105.0	80.8	105.0	105.0	65.5	98.3	105.0		
48		48.5	72.8	97.1	105.0	68.3	102.4	105.0	48.5	72.8	97.1	105.0	70.7	105.0	105.0	70.7	105.0	105.0	57.3	86.0	105.0		
54		43.1	64.7	86.3	105.0	60.7	91.0	105.0	43.1	64.7	86.3	105.0	62.8	94.2	105.0	62.8	94.2	105.0	51.0	76.4	101.9		
60		38.8	58.2	77.7	97.1	54.6	81.9	105.0	38.8	58.2	77.7	97.1	56.5	84.8	105.0	56.5	84.8	105.0	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	102.8	51.4	77.1	102.8	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	105.0	105.0	105.0	102.4	105.0	105.0	72.8	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	86.0	105.0	105.0		
36		60.7	91.0	105.0	105.0	85.3	105.0	105.0	60.7	91.0	105.0	105.0	88.3	105.0	105.0	88.3	105.0	105.0	71.7	105.0	105.0		
42		52.0	78.0	104.0	105.0	73.1	105.0	105.0	52.0	78.0	104.0	105.0	75.7	105.0	105.0	75.7	105.0	105.0	61.4	92.1	105.0		
48		45.5	68.3	91.0	105.0	64.0	96.0	105.0	45.5	68.3	91.0	105.0	66.3	99.4	105.0	66.3	99.4	105.0	53.8	80.6	105.0		
54		40.4	60.7	80.9	101.1	56.9	85.3	105.0	40.4	60.7	80.9	101.1	58.9	88.3	105.0	58.9	88.3	105.0	47.8	71.7	95.6		
60		36.4	54.6	72.8	91.0	51.2	76.8	102.4	36.4	54.6	72.8	91.0	53.0	79.5	105.0	53.0	79.5	105.0	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		

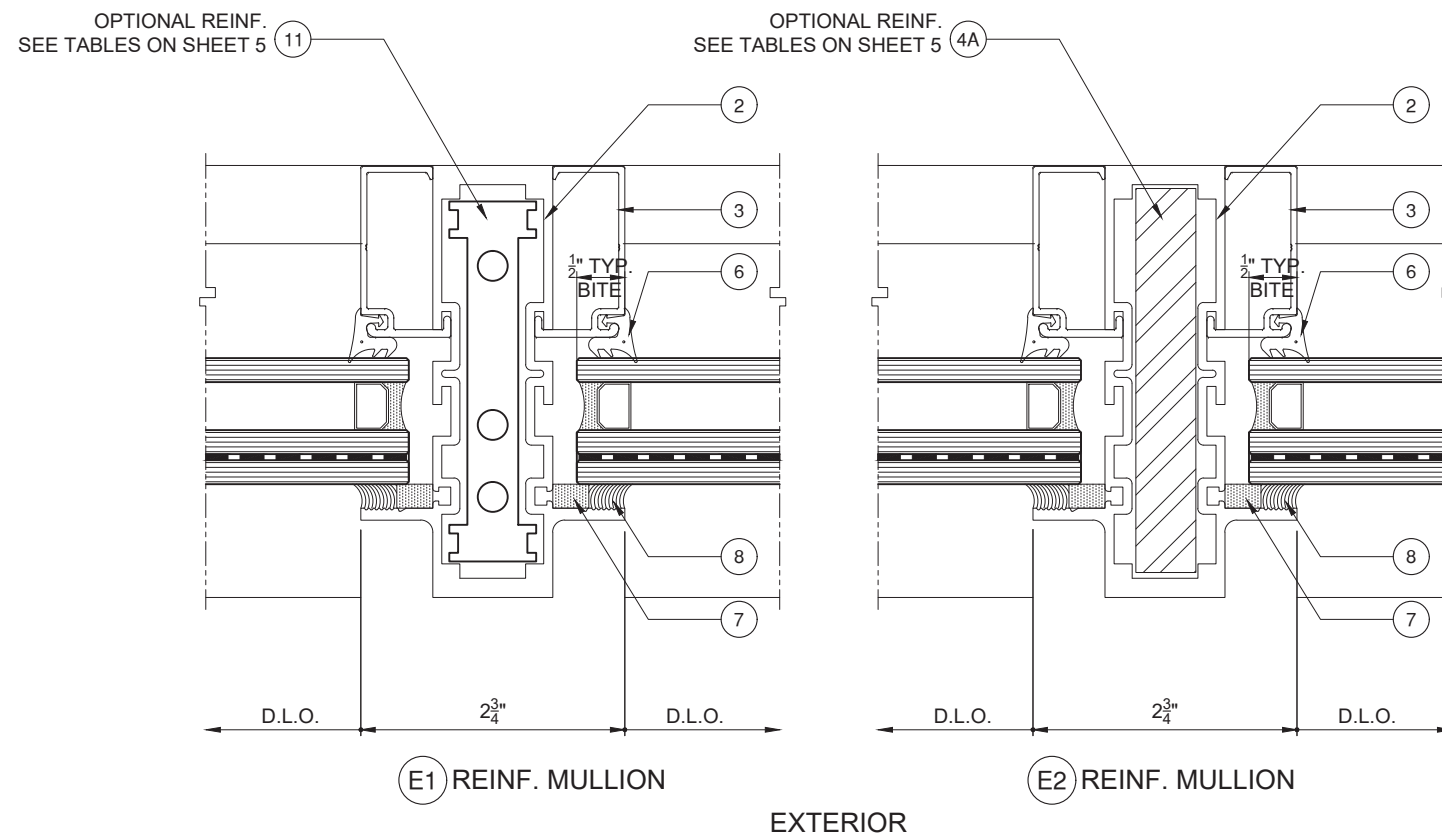
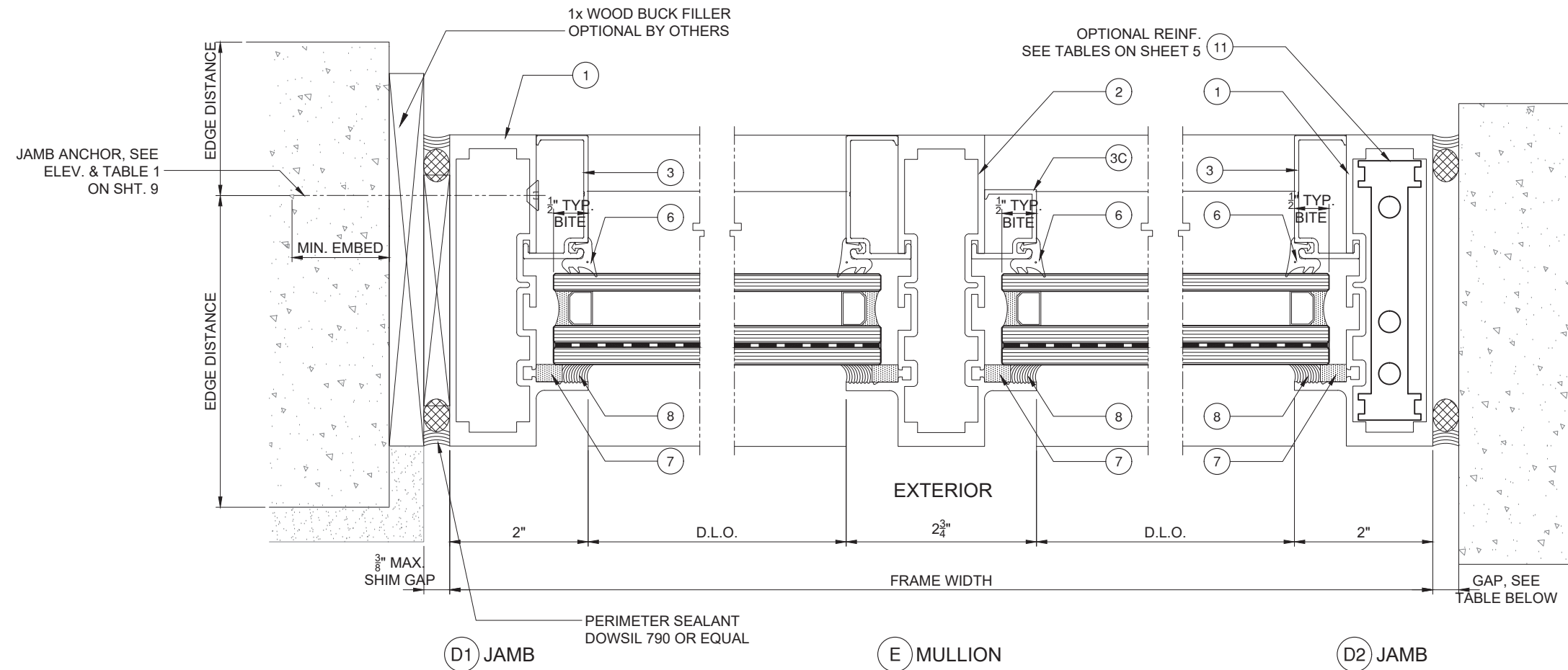
ANCHOR LOAD CAPACITY (psf)																				Ext. (+) / Int. (-)			
Nom. Sizes (in)		TYPE 'A'				TYPE 'B'			TYPE 'C'				TYPE 'D'			TYPE 'E'			TYPE 'F'				
W	H	A2	A3	A4	A5	B2	B3	B4	C2	C3	C4	C5	D2	D3	D4	E2	E3	E4	F2	F3	F4		
30	102	68.5	102.8	105.0	105.0	96.4	105.0	105.0	68.5	102.8	105.0	105.0	99.8	105.0	105.0	99.8	105.0	105.0	80.9	105.0	105.0		
36		57.1	85.6	105.0	105.0	80.3	105.0	105.0	57.1	85.6	105.0	105.0	83.1	105.0	105.0	83.1	105.0	105.0	67.5	101.2	105.0		
42		48.9	73.4	97.9	105.0	68.8	103.3	105.0	48.9	73.4	97.9	105.0	71.3	105.0	105.0	71.3	105.0	105.0	57.8	86.7	105.0		
48		42.8	64.2	85.6	105.0	60.2	90.4	105.0	42.8	64.2	85.6	105.0	62.4	93.5	105.0	62.4	93.5	105.0	50.6	75.9	101.2		
54		38.1	57.1	76.1	95.2	53.5	80.3	105.0	38.1	57.1	76.1	95.2	55.4	83.1	105.0	55.4	83.1	105.0	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	80.9		
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		
30	108	64.7	97.1	105.0	105.0	91.0	105.0	105.0	64.7	97.1	105.0	105.0	94.2	105.0	105.0	94.2	105.0	105.0	76.4	105.0	105.0		
36		53.9	80.9	105.0	105.0	75.9	105.0	105.0	53.9	80.9	105.0	105.0	78.5	105.0	105.0	78.5	105.0	105.0	63.7	95.6	105.0		
42		46.2	69.3	92.4	105.0	65.0	97.5	105.0	46.2	69.3	92.4	105.0	67.3	101.0	105.0	67.3	101.0	105.0	54.6	81.9	105.0		
48		40.4	60.7	80.9	101.1	56.9	85.3	105.0	40.4	60.7	80.9	101.1	58.9	88.3	105.0	58.9	88.3	105.0	47.8	71.7	95.6		
54		36.0	53.9	71.9	89.9	50.6	75.9	101.1	36.0	53.9	71.9	89.9	52.3	78.5	104.7	52.3	78.5	104.7	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	105.0	105.0	86.2	105.0	105.0	61.3	92.0	105.0	105.0	89.3	105.0	105.0	89.3	105.0	105.0	72.4	105.0	105.0		
36		51.1	76.6	102.2	105.0	71.9	105.0	105.0	51.1	76.6	102.2	105.0	74.4	105.0	105.0	74.4	105.0	105.0	60.4	90.5	105.0		
42		43.8	65.7	87.6	105.0	61.6	92.4	105.0	43.8	65.7	87.6	105.0	63.8	95.6	105.0	63.8	95.6	105.0	51.7	77.6	103.5		
48		38.3	57.5	76.6	95.8	53.9	80.8	105.0	38.3	57.5	76.6	95.8	55.8	83.7	105.0	55.8	83.7	105.0	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	105.0	105.0	81.9	105.0	105.0	58.2	87.4	105.0	105.0	84.8	105.0	105.0	84.8	105.0	105.0	68.8	103.2	105.0		
36		48.5	72.8	97.1	105.0	68.3	102.4	105.0	48.5	72.8	97.1	105.0	70.7	105.0	105.0	70.7	105.0	105.0	57.3	86.0	105.0		
42		41.6	62.4	83.2	104.0	58.5	87.8	105.0	41.6	62.4	83.2	104.0	60.6	90.9	105.0	60.6	90.9	105.0	49.1	73.7	98.3		
48		36.4	54.6	72.8	91.0	51.2	76.8	102.4	36.4	54.6	72.8	91.0	53.0	79.5	105.0	53.0	79.5	105.0	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	105.0	105.0	78.0	105.0	105.0	55.5	83.2	105.0	105.0	80.8	105.0	105.0	80.8	105.0	105.0	65.5	98.3	105.0		
36		46.2	69.3	92.4	105.0	65.0	97.5	105.0	46.2	69.3	92.4	105.0	67.3	101.0	105.0	67.3	101.0	105.0	54.6	81.9	105.0		
42		39.6	59.4	79.2	99.0	55.7	83.6	105.0	39.6	59.4	79.2	99.0	57.7	86.5	105.0	57.7	86.5	105.0	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	101.0	50.5	75.7	101.0	41.0	61.4	81.9		
54		30.8	46.2	61.6	77.0	43.3	65.5	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	105.0	105.0	74.5	105.0	105.0	52.9	79.4	105.0	105.0	77.1	105.0	105.0	77.1	105.0	105.0	62.5	93.8	105.0	
36			44.1	66.2	88.2	105.0	62.1	93.1	105.0	44.1	66.2	88.2	105.0	64.2	96.4	105.0	64.2	96.4	105.0	52.1	78.2	104.2	
42	37.8		56.7	75.6	94.5	53.2	79.8	105.0	37.8	56.7	75.6	94.5	55.1	82.6	105.0	55.1	82.6	105.0	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	101.3	105.0	71.2	105.0	105.0	50.6	76.0	101.3	105.0	73.7	105.0	105.0	73.7	105.0	105.0	59.8	89.7	105.0	
36			42.2	63.3	84.4	105.0	59.4	89.0	105.0	42.2	63.3	84.4	105.0	61.4	92.2	105.0	61.4	92.2	105.0	49.9	74.8	99.7	
42			36.2	54.3	72.3	90.4	50.9	76.3	101.8	36.2	54.3	72.3	90.4	52.7	79.0	105.0	52.7	79.0	105.0	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	105.0	105.0	85.3	105.0	105.0	60.7	91.0	105.0	105.0	88.3	105.0	105.0	88.3	105.0	105.0	71.7	105.0	105.0	
30			48.5	72.8	97.1	105.0	68.3	102.4	105.0	48.5	72.8	97.1	105.0	70.7	105.0	105.0	70.7	105.0	105.0	57.3	86.0	105.0	
36			40.4	60.7	80.9	101.1	56.9	85.3	105.0	40.4	60.7	80.9	101.1	58.9	88.3	105.0	58.9	88.3	105.0	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	101.0	50.5	75.7	101.0	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 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.)				

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





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

PRODUCT:

**3000R Impact
Storefront System**

LMI - HVHZ

Resistor
BLAST & STORM PROTECTION™

REVN	DATE/REMARKS
1	10/19/2024: LEVEL "E" IMPACT QUALIFICATION

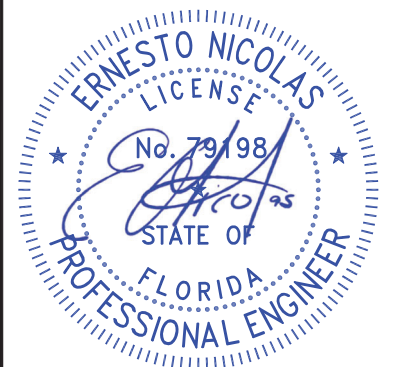
ENGINEER:



En3 Engineering & Consultancy

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

STAMP:



FLORIDA PRODUCT APPROVAL:

FL46132

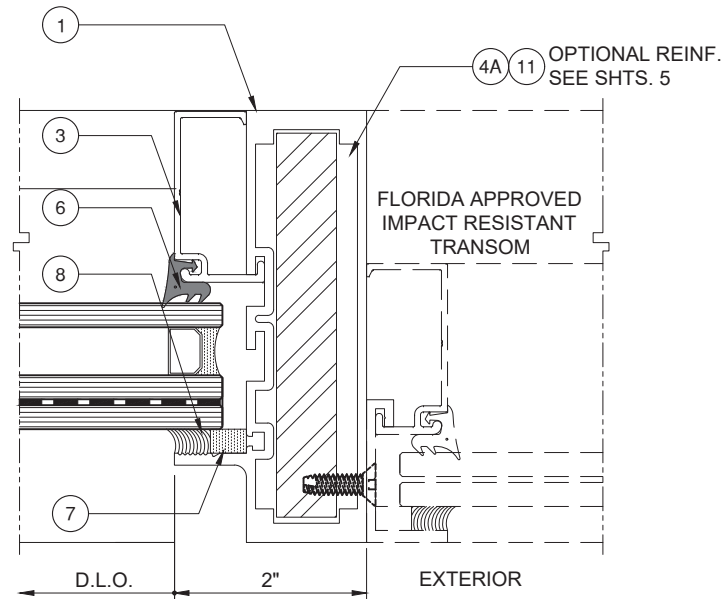
DATE: DECEMBER 20, 2023

DRAWN: Erick CHK: ESN

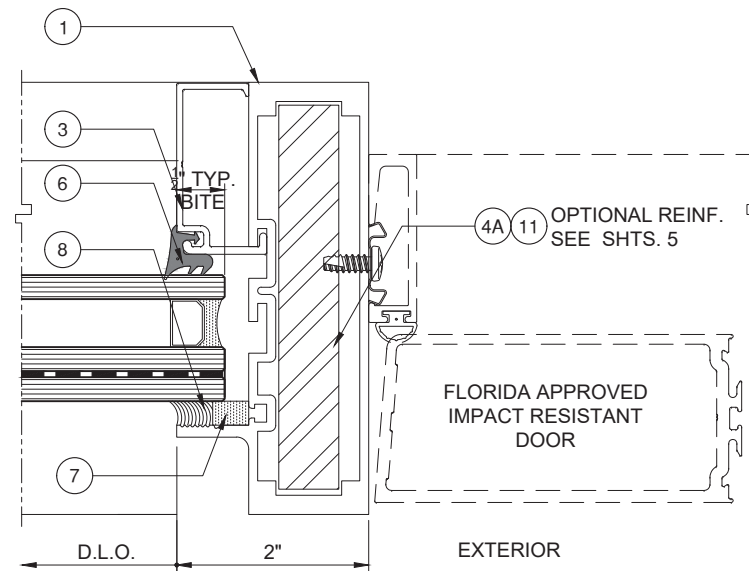
DRWG. No: 23FL-105 SCALE: NTS

SHEET NO.:

13 of 16

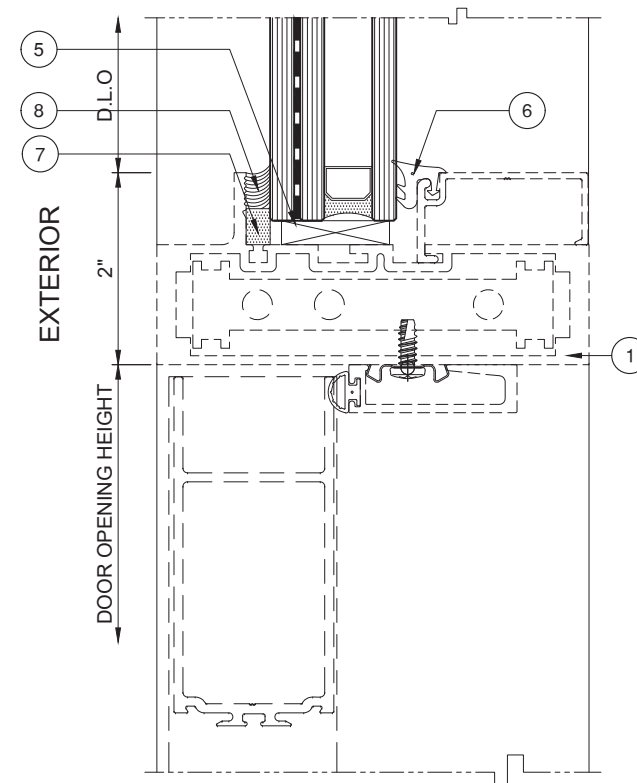


(F) DOOR JAMB AT TRANSOM



(G) DOOR JAMB

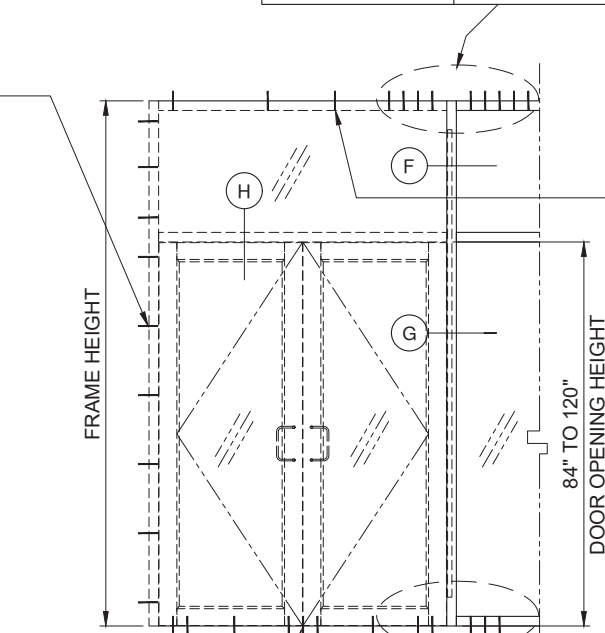
NOTE:
SEE DOOR FL PRODUCT APPROVAL
FOR DESIGN LOAD CAPACITY OF
DOOR, TRANSOM AND DOOR
ANCHORS. LOWER VALUES FROM
DOOR OR WINDOW WALL SYSTEM
CAPACITY WILL APPLY TO ENTIRE
SYSTEM.



(H) DOOR TRANSOM

TABLE 1 - ANCHOR AT DOOR JAMB TOP		
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

TABLE 2 - ANCHOR AT DOOR JAMB BOTTOM		
ANCHOR TYPE	1/4" Shim	3/8" Shim
C	6	9
D	5	6

DOUBLE DOOR JAMB ANCHORS

Trulite
GLASS & ALUMINUM SOLUTIONS™

<http://www.trulite.com>

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

PRODUCT:

**3000R Impact
Storefront System**

LMI - HVHZ

Resistor
BLAST & STORM PROTECTION™

REV#	DATE/REMARKS
1	10/19/2024: 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. 79798
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

FLORIDA PRODUCT APPROVAL:

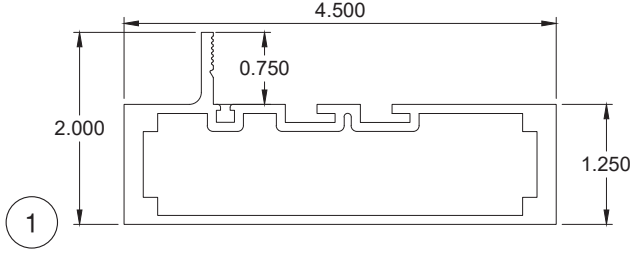
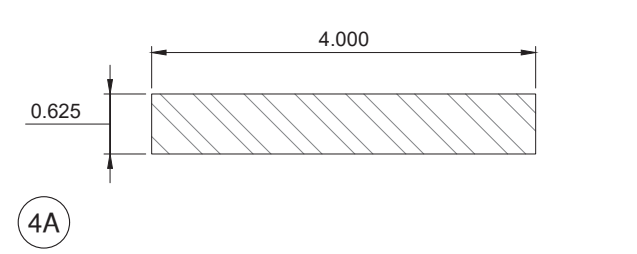
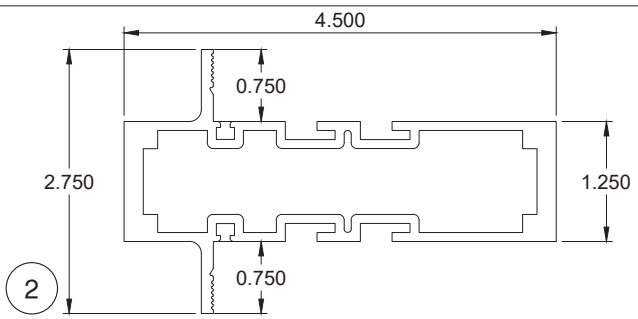
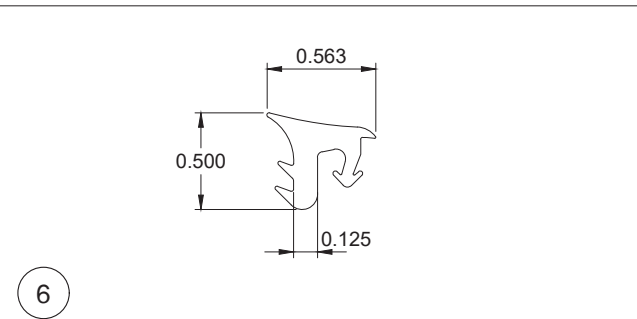
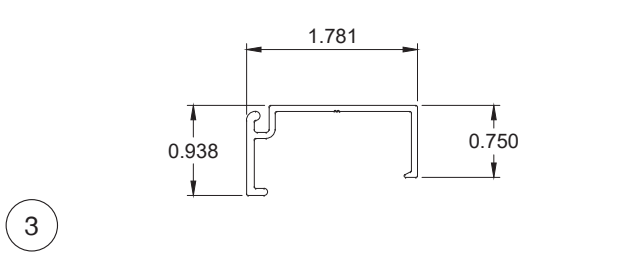
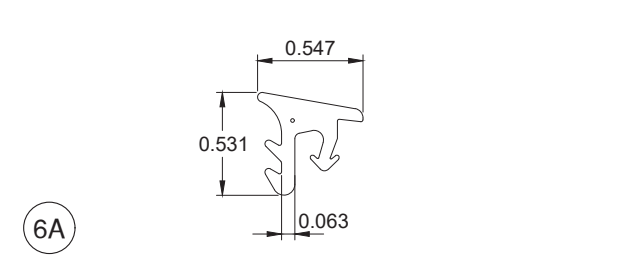
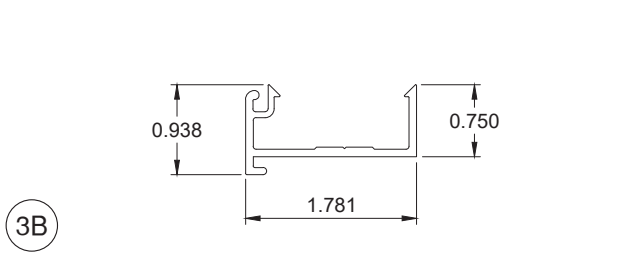
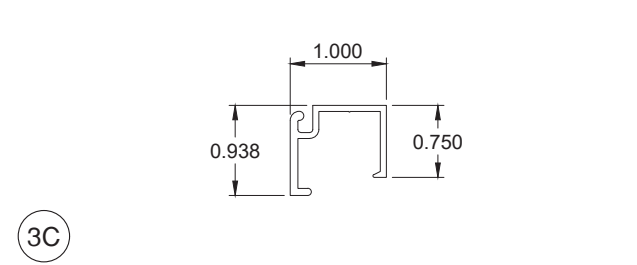
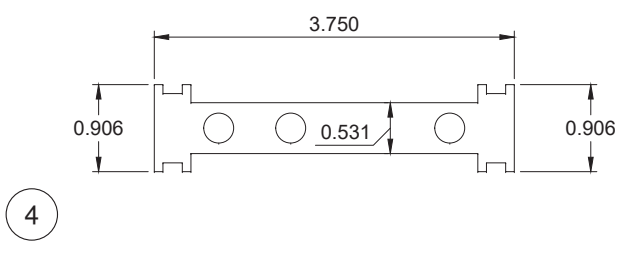
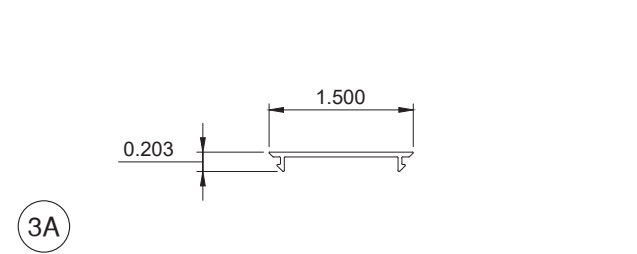
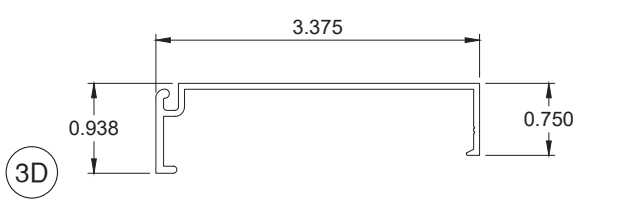
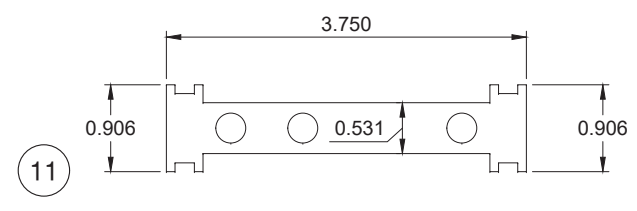
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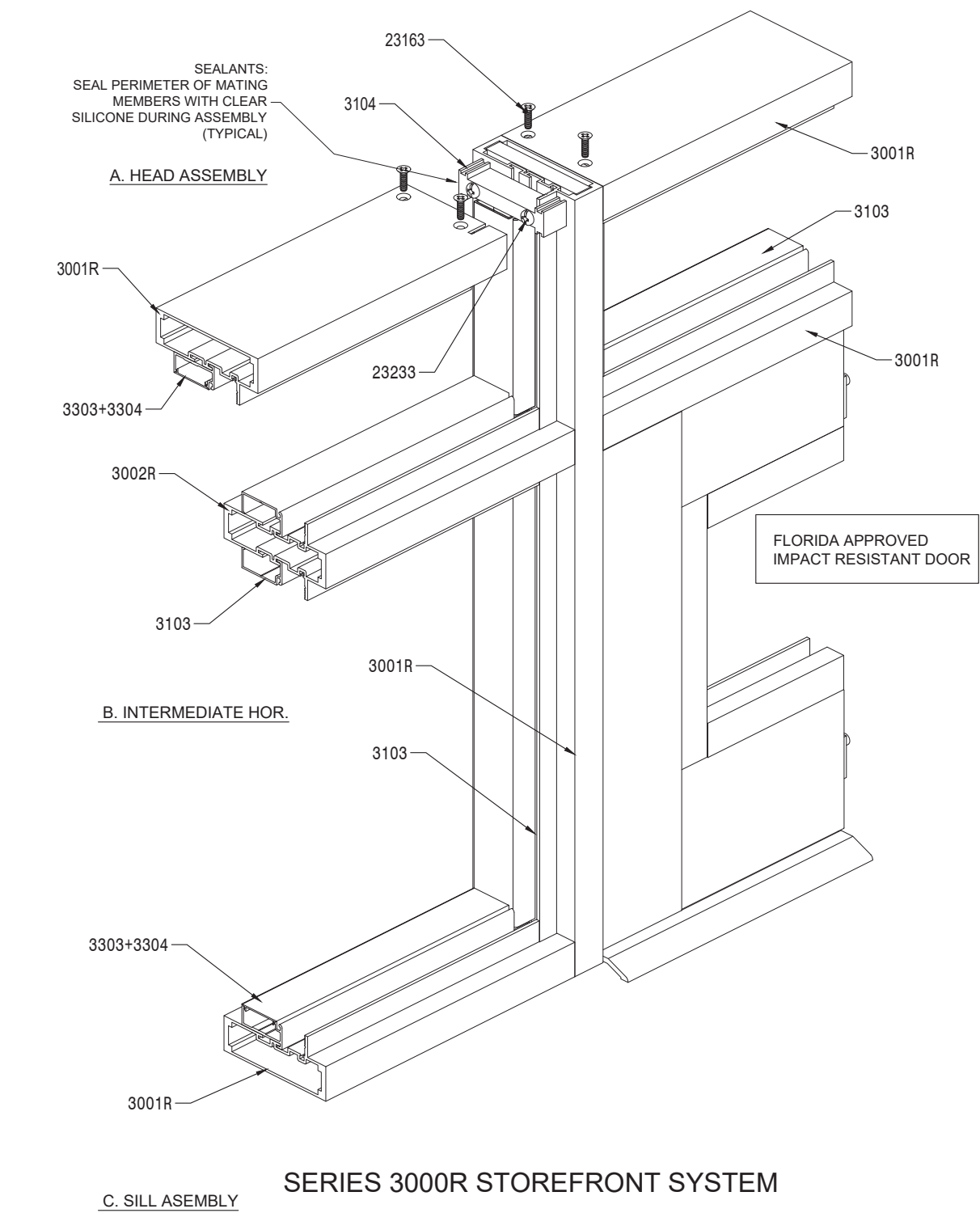
DATE: DECEMBER 20, 2023

DRAWN: Erick	CHK: ESN
DRWG. No: 23FL-105	SCALE: NTS

SHEET NO.:

14 of 16

 1	 4A
3001R FRAME HEAD/SILL/JAMB	ST310 STEEL MULLION REINF. (A572, GR. 50)
 2	 6
3002R INTERMEDIATE VERTICAL/HORIZONTAL	RG-1 EXTERIOR GLAZING GASKET
 3	 6A
3103 STANDARD GLASS STOP	RG-2 EXTERIOR GLAZING GASKET
 3B	 3C
3304 OPEN BACK GLASS STOP	3003 OPTIONAL GLASS STOP
 4	 3A
3104CLIP / 3104C SHEAR BLOCK	3303 GLASS STOP COVER
 3D	 11
3103Z GLASS STOP	3104 / 3104R ALUMINUM REINFORCEMENT



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

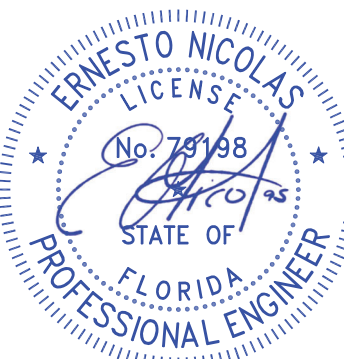
Trulite
GLASS & ALUMINUM SOLUTIONS™
<http://www.trulite.com>
1750 Founders Pkwy, Suite. 154,
Alpharetta GA, 30009
p. 800-432-8132

PRODUCT:
3000R Impact Storefront System
LMI - HVHZ
Resistor
BLAST & STORM PROTECTION™

REVN	DATE/REMARKS
1	10/19/2024: 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:
FL46132
DATE: DECEMBER 20, 2023
DRAWN: Erick CHK: ESN
DRWG. No: 23FL-105 SCALE: NTS
SHEET NO.:
15 of 16

BILL OF MATERIALS				
ITEM #	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	3001R	FRAME HEAD/JAMB/JAMB	ALUM. 6063-T6	TRULITE
2	3002R	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
3D	3103Z	GLASS STOP	ALUM. 6063-T6	TRULITE
4	3104CLIP / 3104C	SHEAR BLOCK	ALUM. 6063-T6	TRULITE
4A	ST310	MULLION REINFORCING	STEEL A572 - GR. 50 MIN.	VARIES
5	H62F	SETTING BLOCK (INSUL, LAM. GLASS) DUROMETER 85 +/-5	EDPM	1-3/8" x 1/4" x 4" LONG
5A	H62D	SETTING BLOCK (9/16" LAM. GLASS) DUROMETER 85 +/-5	EDPM	1/2" x 1/4" x 4" LONG
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	3104R / 3104	ALUMINUM REINFORCEMENT	ALUM. 6063-T6	TRULITE
12	-	ALUMINUM GLASS SPACER	ALUMINUM	VARIES



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PRODUCT:

3000R Impact
Storefront System

LMI - HVHZ



BLAST & STORM PROTECTION™

REVN	DATE/REMARKS
1	10/19/2024: LEVEL 'E' IMPACT QUALIFICATION

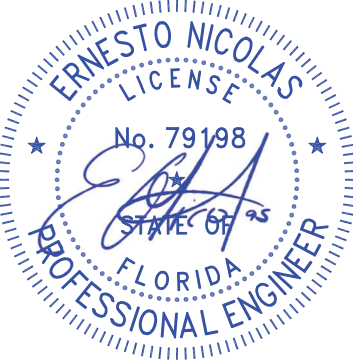
ENGINEER:



En3 Engineering & Consultancy

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

STAMP:



FLORIDA PRODUCT APPROVAL:

FL46132

DATE: DECEMBER 20, 2023	
DRAWN: Erick	CHK: ESN
DRWG. No: 23FL-105	SCALE: NTS

SHEET NO.:

16 of 16