

TRULITE GLASS & ALUMINUM SOLUTIONS

SERIES 3200 IMPACT RESISTANT THERMAL STOREFRONT SYSTEM

WITH MULTIPLE INFILLS (LMI - HVHZ)

GENERAL NOTES:

1.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8th EDITION (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
2.

SERIES 3200 RESISTOR ALUMINUM THERMAL STOREFRONT SYSTEM WAS TESTED TO COMPLY WITH MISSILE LEVEL "D"(50FT/SEC) IMPACT AND QUALIFIED FOR USE ON ESSENTIAL FACILITIES FOR THE FOLLOWING WIND ZONE LOCATIONS:

- WIND ZONE 1: 130MPH TO 139MPH

- WIND ZONE 2: 140MPH TO 149MPH (AT GREATER THAN ONE MILE OF THE COASTLINE)

- WIND ZONE 3: 150MPH TO 170MPH (AT ELEVATION GREATER THAN 30FT (EXCLUDING HIGH -VELOCITY HURRICANE ZONES).
3.

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

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.
5.

INSTALLATION ANCHORS SHALL BE AS LISTED. SPACED AS SHOWN ON DETAILS. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS REQUIRED. ANCHORS 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 OF HOLLOW BLOCKS AND GROUT FILLED BLOCK, 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.
6.

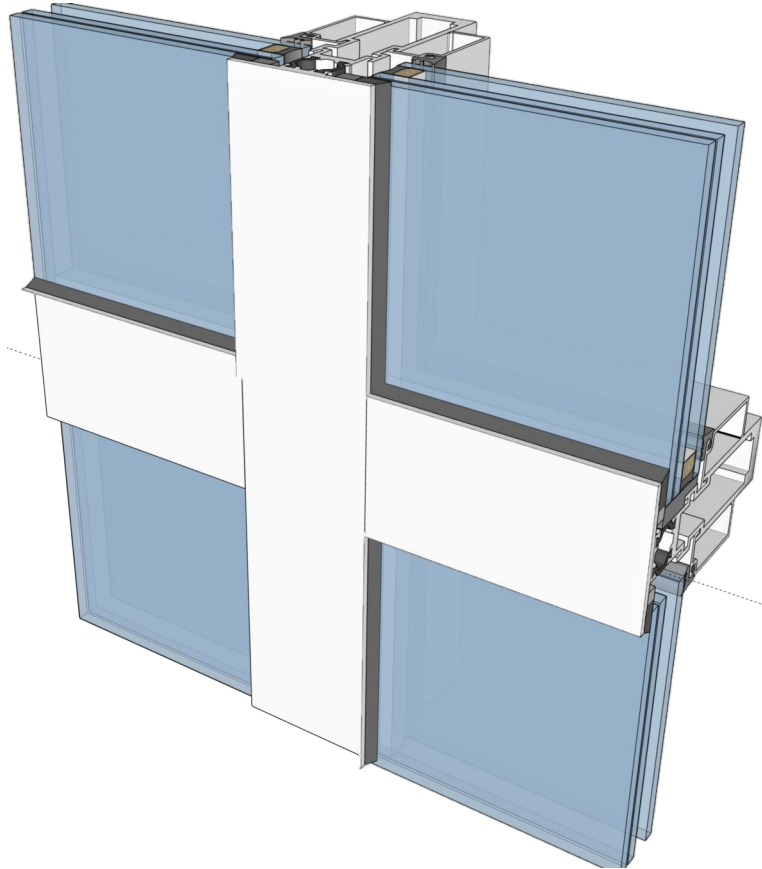
INSTALLATION ANCHORS MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
7.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME IN CONTACT WITH REQUIREMENTS OF THE 2023 FLORIDA BUILDING CODE & ADAPTED STANDARDS.
8.

THE MAIN STRUCTURE WHERE THE FTOREFRONT SYSTEM WILL BE INSTALLED MUST BE CAPABLE OF SUPPORTING ALL THE LOADS ON IT.
9.

ALL SHIMS TO BE HIGH IMPACT RESISTANT 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 MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS 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 3 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
3.

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

USING TABLES ON SHEET 7 & 8 SELECT ANCHOR OPTION WITH DESIGN RATING EQUAL OF MORE 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:

D.L.O. OR DLO - DAYLIGHT OPENING
TYP. - TYPICAL
FH - FRAME HEIGHT
DOW - DOOR OPENING WIDTH
DOH - DOOR OPENING HEIGHT
DP - DESIGN PRESSURE
NTS - NOT TO SCALE
W - WIDTH
H - HEIGHT
DP - DESIGN PRESSURE
SLW - SIDELITE WIDTH
O.C.- ON CENTER

LIMITATION OF USE

1.

THIS FLORIDA PRODUCT APPROVAL DOCUMENT IS GENERIC AND DOES NOT PROVIDE INFORMATION ABOUT A SITE SPECIFIC PROJECT OR WHERE THE SITE CONDITIONS DEVIATE FROM THIS DOCUMENT.
2.

FOR CONDITIONS THAT DEVIATE FROM THE FLORIDA PRODUCT APPROVAL DOCUMENT, THIS SHALL BE REVIEWED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD FOR THE PROJECT.

Trulite

GLASS & ALUMINUM SOLUTIONS™

<http://www.trulite.com>

403 West Park Court, Suite 201
Peachtree City, GA 30269
p. 800-432-8132

PRODUCT:

3200 IMPACT THERMAL
STOREFRONT SYSTEM

LMI (HVHZ)

Resistor

PRODUCT SERIES

REVN	DATE/REMARKS

ENGINEER:

En3 Engineering & Consultancy

950 SW 135th Way Sunrise,
FL 33325 P. 786 218 7027
Email: en3.engconsul@gmail.com

STAMP:

ERNESTO NICOLAS

LICENSE

No. 79198

STATE OF

FLORIDA

PROFESSIONAL ENGINEER

FLORIDA PRODUCT APPROVAL:

FL45204

DATE: DECEMBER 10, 2023

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

SHEET NO.:

1 OF 11



GLASS & ALUMINUM SOLUTIONS™

<http://www.trulite.com>

403 West Park Court, Suite 201
Peachtree City, GA 30269
p. 800-432-8132

PRODUCT:

Resistor
Series 3200
ALUMINUM THERMAL
STOREFRONT
WALL - L.M.I.

Resistor
BLAST & STORM PROTECTION™

REVN	DATE/REMARKS

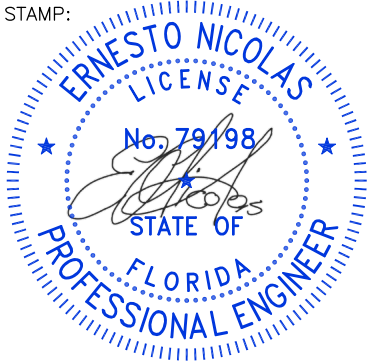
ENGINEER:



En3 Engineering & Consultancy

950 SW 135th Way Sunrise,
FL 33325 P. 786 218 7027
Email: en3.engconsul@gmail.com

STAMP:



FLORIDA PRODUCT APPROVAL:

FL45204

DATE: DECEMBER 10, 2023

DRAWN: Erick

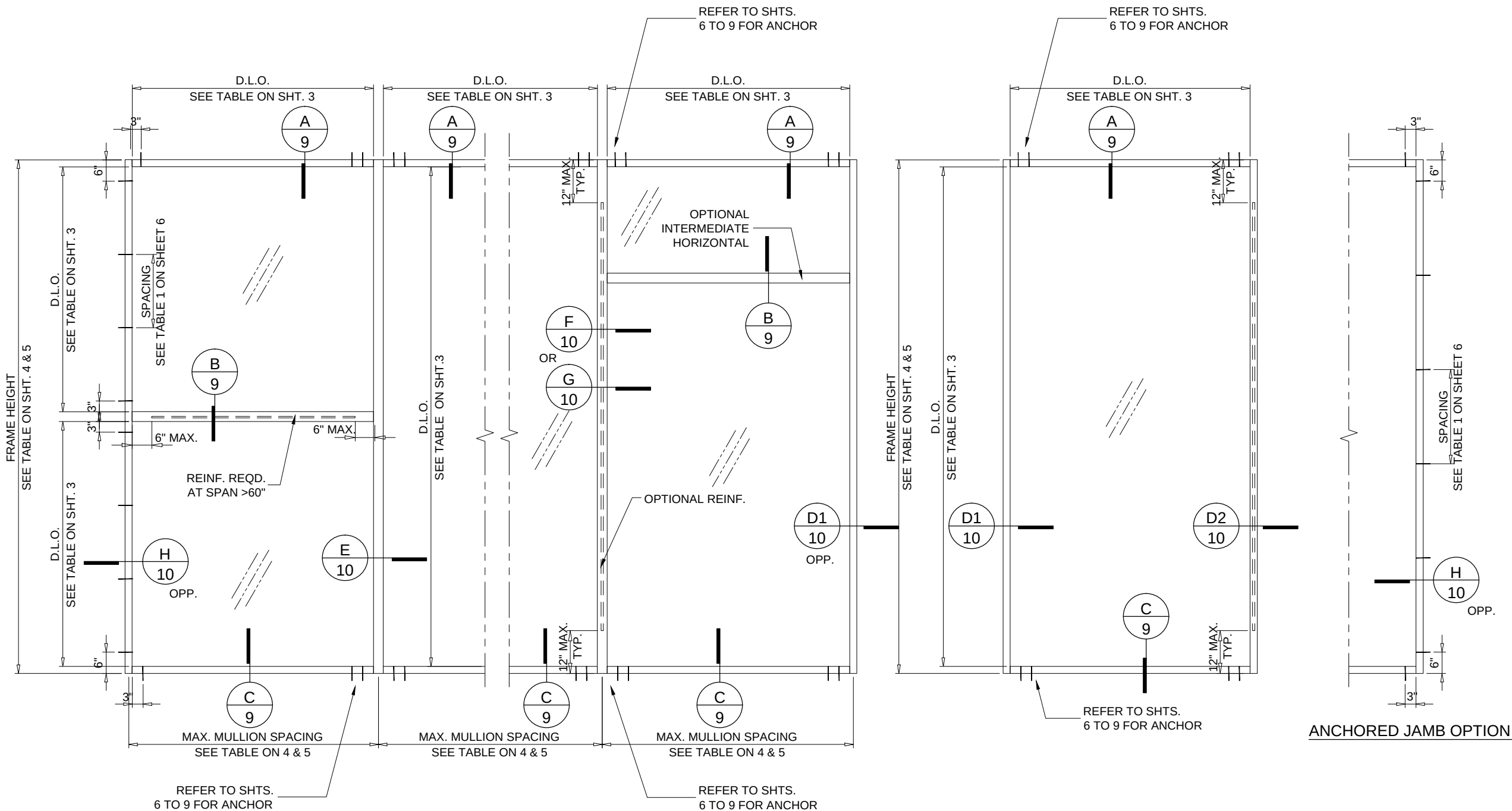
CHK: ESN

DRWG. No: 23FL-102

SCALE: NTS

SHEET NO.:

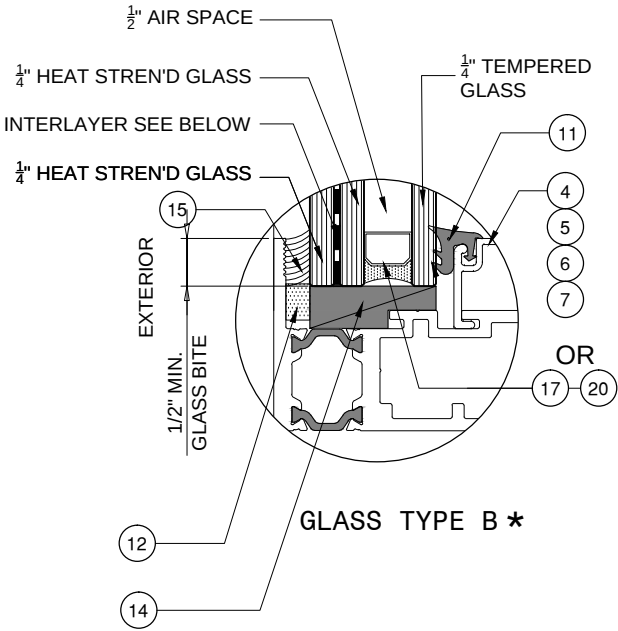
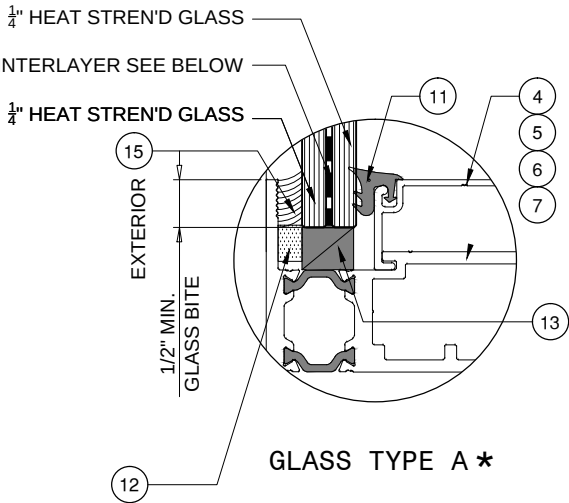
2 OF 11



TYPICAL ELEVATIONS

GLASS LOAD CAPACITY – PSF						
NOMINAL DIMS.		GLASS TYPES				
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
12"	68"	65.0	40.0	40.0	+70/-85	+65/-75
24"		65.0	40.0	40.0	+70/-85	+65/-75
36"		65.0	40.0	40.0	+70/-85	+65/-75
48"		65.0	40.0	40.0	+70/-85	+65/-75
53"		65.0	40.0	40.0	+70/-85	+65/-75
57"		65.0	40.0	40.0	+70/-85	-
60"		-	40.0	40.0	+70/-85	-
63"		-	40.0	40.0	-	-
72"		-	40.0	40.0	-	-
12"	80"	65.0	40.0	40.0	+70/-85	+65/-75
24"		65.0	40.0	40.0	+70/-85	+65/-75
36"		65.0	40.0	40.0	+70/-85	+65/-75
48"		65.0	40.0	40.0	+70/-85	-
52"		-	40.0	40.0	+70/-85	-
60"		-	40.0	40.0	-	-
63"		-	40.0	40.0	-	-
72"		-	40.0	40.0	-	-
12"	92"	65.0	40.0	40.0	+70/-85	+65/-75
24"		65.0	40.0	40.0	+70/-85	+65/-75
36"		65.0	40.0	40.0	+70/-85	+65/-75
39.25"		-	40.0	40.0	+70/-85	+65/-75
45.25"		-	40.0	40.0	+70/-85	-
48"		-	40.0	40.0	-	-
57"		-	40.0	40.0	-	-
60"		-	40.0	40.0	-	-
63"		-	40.0	40.0	-	-
72"		-	40.0	40.0	-	-
12"	104"	65.0	40.0	40.0	+70/-85	+65/-75
34"		65.0	40.0	40.0	+70/-85	+65/-75
36"		-	40.0	40.0	+70/-85	-
40"		-	40.0	40.0	+70/-85	-
57"		-	40.0	40.0	-	-
60"		-	40.0	40.0	-	-
63"		-	40.0	40.0	-	-
72"		-	40.0	40.0	-	-
12"	116"	65.0	40.0	40.0	+70/-85	+65/-75
31"		65.0	40.0	40.0	+70/-85	+65/-75
36"		-	40.0	40.0	+70/-85	-
48"		-	40.0	40.0	-	-
57"		-	40.0	40.0	-	-

GLASS LOAD CAPACITY – PSF						
NOMINAL DIMS.		GLASS TYPES				
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
12"	68"	60.0	+85/-95	+70/-85	+65/-75	
24"		60.0	+85/-95	+70/-85	+65/-75	
36"		60.0	+85/-95	+70/-85	+65/-75	
48"		60.0	+85/-95	+70/-85	+65/-75	
53"		60.0	+85/-95	+70/-85	+65/-75	
60"		60.0	+85/-95	+70/-85	-	
63"		60.0	+85/-95	-	-	
72"		60.0	+85/-95	-	-	
12"	80"	60.0	+85/-95	+70/-85	+65/-75	
24"		60.0	+85/-95	+70/-85	+65/-75	
45"		60.0	+85/-95	+70/-85	+65/-75	
52"		60.0	+85/-95	+70/-85	-	
57"		60.0	+85/-95	-	-	
60"		60.0	+85/-95	-	-	
63"		60.0	+85/-95	-	-	
72"		60.0	60.0	-	-	
12"	92"	60.0	+85/-95	+70/-85	+65/-75	
24"		60.0	+85/-95	+70/-85	+65/-75	
36"		60.0	+85/-95	+70/-85	+65/-75	
39.25"		60.0	+85/-95	+70/-85	+65/-75	
45.25"		60.0	+85/-95	+70/-85	-	
57"		60.0	+85/-95	-	-	
60"		60.0	+85/-95	-	-	
63"		60.0	+85/-95	-	-	
72"		60.0	60.0	-	-	
12"	104"	60.0	+85/-95	+70/-85	+65/-75	
24"		60.0	+85/-95	+70/-85	+65/-75	
34"		60.0	+85/-95	+70/-85	+65/-75	
40"		60.0	+85/-95	+70/-85	-	
57"		60.0	60.0	-	-	
60"		60.0	60.0	-	-	
63"		60.0	60.0	-	-	
72"		60.0	60.0	-	-	
12"	116"	60.0	+85/-95	+70/-85	+65/-75	
31"		60.0	+85/-95	+70/-85	+65/-75	
35"		60.0	+85/-95	+70/-85	-	
48"		60.0	60.0	-	-	
57"		60.0	60.0	-	-	



★ INTERLAYER TYPES:

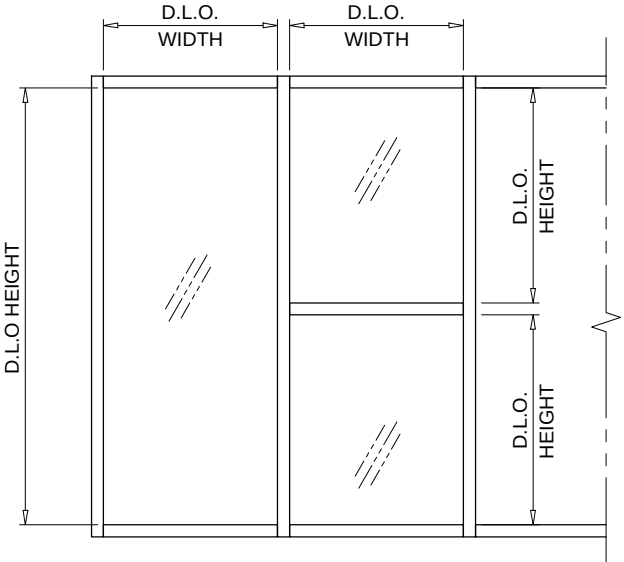
- 0.090" SAFLEX PVB CLEAR AND COLOR GLASS INTERLAYERS BY EASTMAN CHEMICAL COMPANY.
- 0.100" SAFLEX HP CLEAR AND COLOR GLASS INTERLAYERS BY EASTMAN CHEMICAL COMPANY.
- 0.090" SENTRYGLAS INTERLAYER BY KURARAY AMERICA INC.
- 0.090" EVERLAM SUPER TOUGH PVB INTERLAYER.
- 0.090" EVERLAM LAM50 PVB INTERLAYER.

GLASS LOAD CAPACITY

REFER TO 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 ≤ 54" AND AT 4" FROM ENDS FOR SPAN > 54".
- OTHER GLASS SIZES ARE QUALIFIED AS LONG AS EQUAL OR LESS THAN TESTED AREA.



ELEVATION 1



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PRODUCT:

**3200 IMPACT THERMAL
STOREFRONT SYSTEM**

LMI (HVHZ)

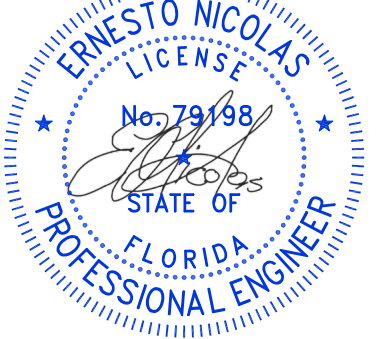
Resistor
PRODUCT SERIES

REVN	DATE/REMARKS

ENGINEER:

En3 Engineering & Consultancy
950 SW 135th Way Sunrise,
FL 33325 P. 786 218 7027
Email: en3.engconsul@gmail.com

STAMP:



FLORIDA PRODUCT APPROVAL:

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DRWG. No: 23FL-102	SCALE: NTS

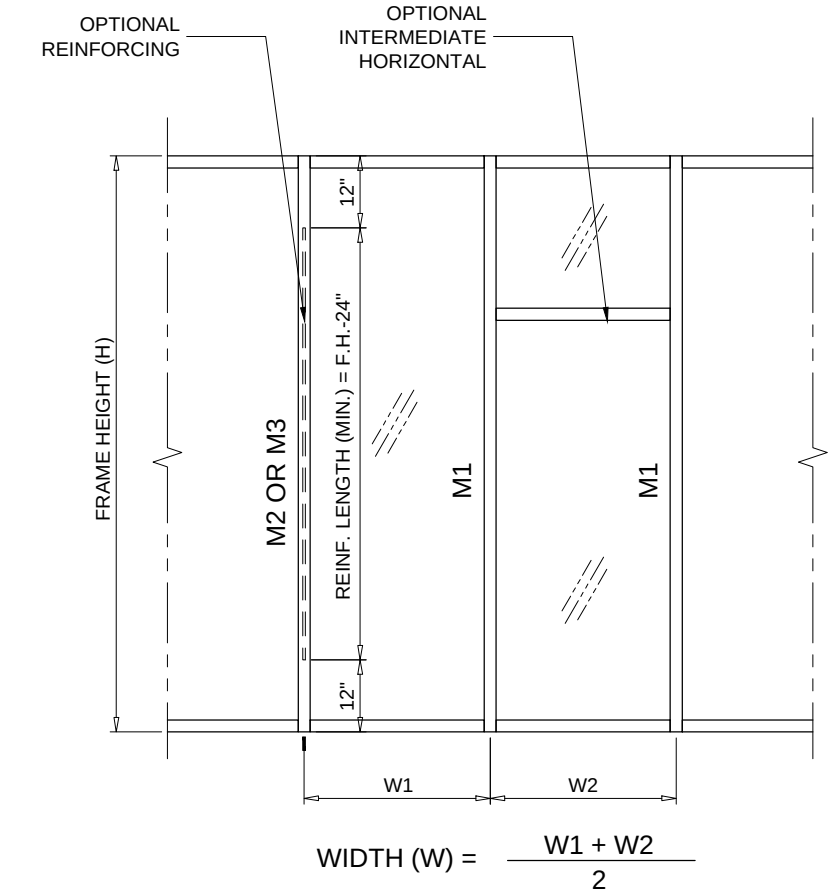
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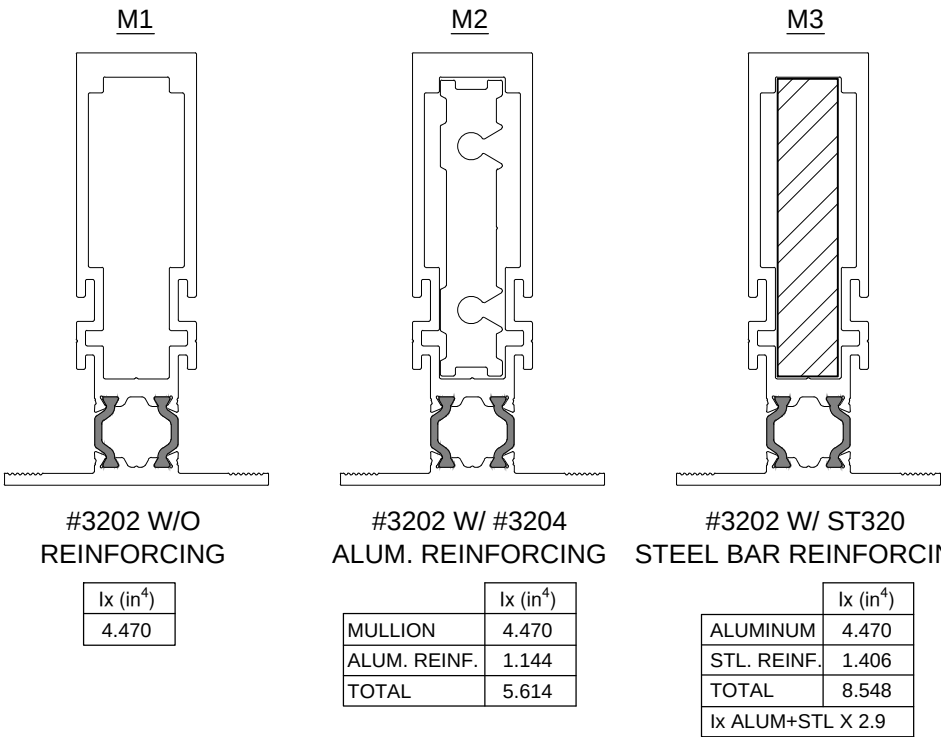
MULLION CAPACITIES (psf)					
Dimensions (in)		M1	M2	M3	
W	H	EXT. (+) /INT.(-)	EXT. (+) /INT.(-)	EXT. (+)	/INT.(-)
60	78	65.0	65.0	85.0	95.0
66	78	65.0	65.0	85.0	89.1
72	78	65.0	65.0	81.6	81.6
54	84	65.0	65.0	85.0	95.0
60	84	65.0	65.0	85.0	91.0
66	84	65.0	65.0	82.7	82.7
72	84	64.4	65.0	75.8	75.8
48	90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

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

MULLION LOAD CAPACITY
REFER TO ELEVATION 2



ELEVATION 2



Trulite
GLASS & ALUMINUM SOLUTIONS™
http://www.trulite.com
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PRODUCT:
**3200 IMPACT THERMAL
STOREFRONT SYSTEM**
LMI (HVHZ)

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS

ENGINEER:
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950 SW 135th Way Sunrise,
FL 33325 P. 786 218 7027
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PROFESSIONAL ENGINEER

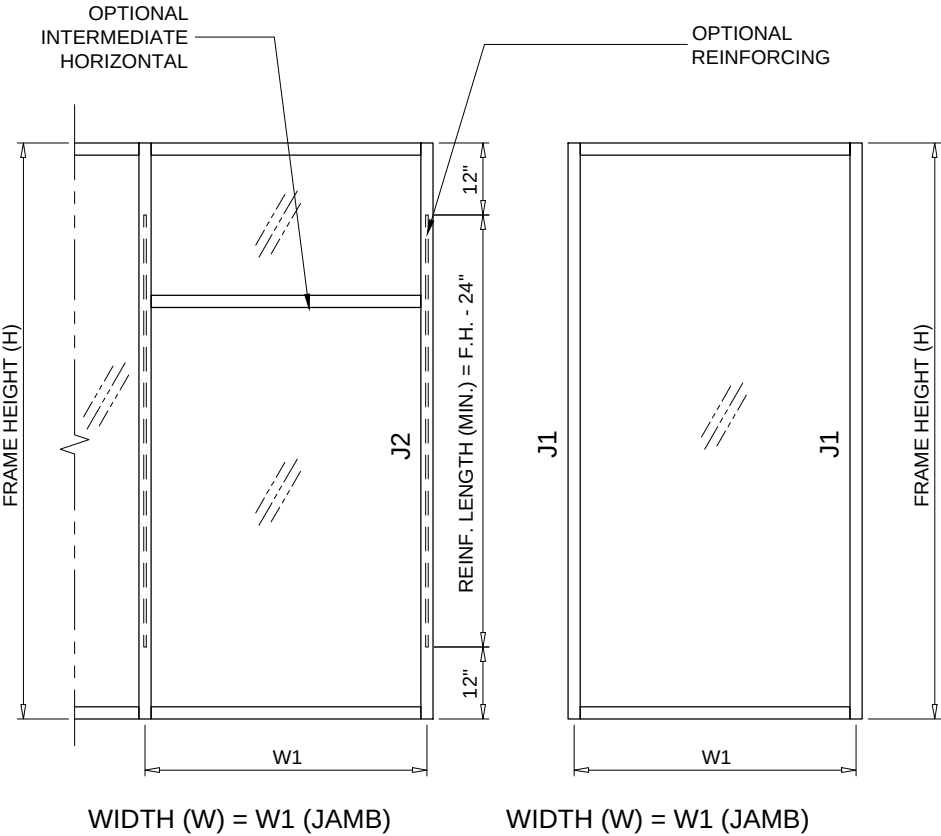
FLORIDA PRODUCT APPROVAL:
FL45204

DATE: DECEMBER 10, 2023	
DRAWN: Erick	CHK: ESN
DRWG. No: 23FL-102	SCALE: NTS

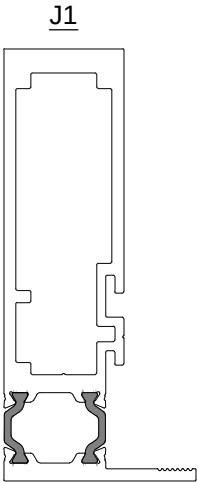
SHEET NO.:
4 OF 11

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

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

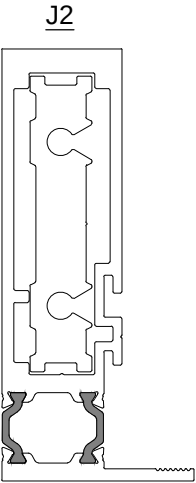


ELEVATION 3



#3201 W/O REINFORCING

Ix (in ⁴)
4.251



#3201 W/ #3204 ALUM. REINFORCING

	Ix (in ⁴)
MULLION	4.251
ALUM. REINF.	1.144
TOTAL	5.395

JAMB LOAD CAPACITY

REFER TO ELEVATION 3



GLASS & ALUMINUM SOLUTIONS™

<http://www.trulite.com>

403 West Park Court, Suite 201
Peachtree City, GA 30269
p. 800-432-8132

PRODUCT:

**3200 IMPACT THERMAL
STOREFRONT SYSTEM**

LMI (HVHZ)

Resistor
PRODUCT SERIES

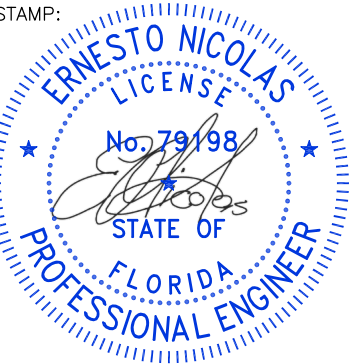
REVN	DATE/REMARKS

ENGINEER:



En3 Engineering & Consultancy

950 SW 135th Way Sunrise,
FL 33325 P: 786 218 7027
Email: en3.engconsul@gmail.com



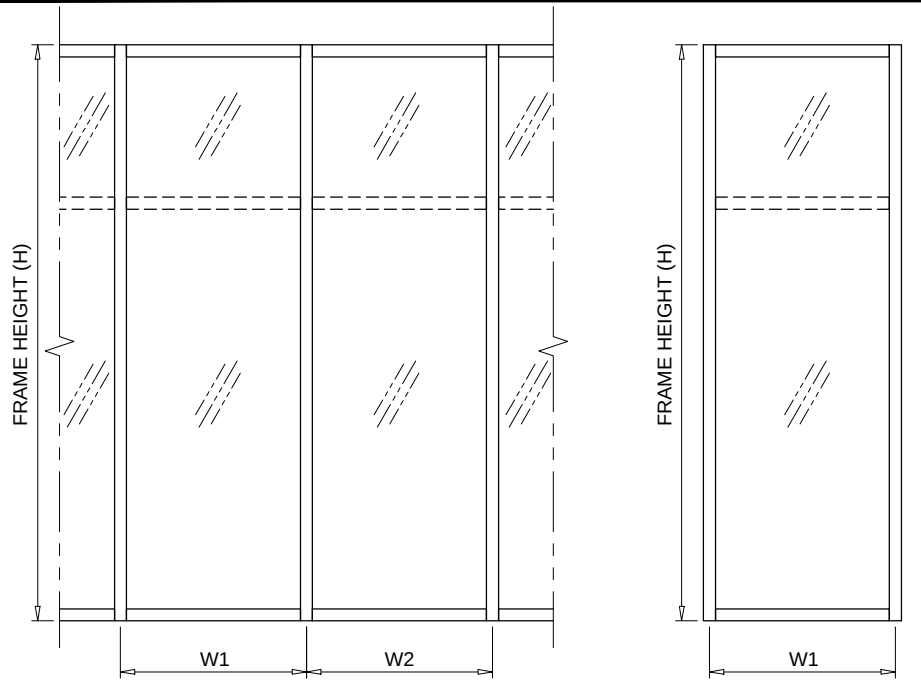
FLORIDA PRODUCT APPROVAL:

FL45204

DATE: DECEMBER 10, 2023	
DRAWN: Erick	CHK: ESN
DRWG. No: 23FL-102	SCALE: NTS

SHEET NO.:

5 OF 11

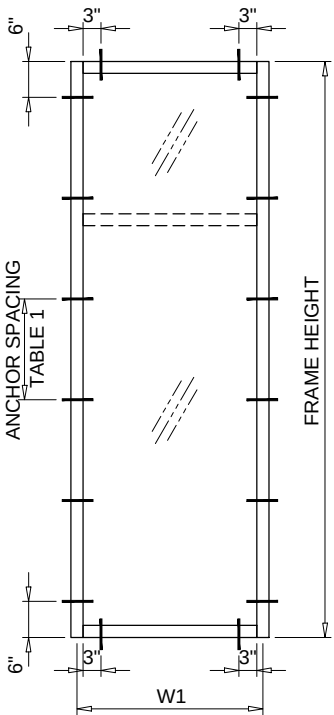


WIDTH (W) = $\frac{W1 + W2}{2}$

WIDTH (W) = W1 (JAMB)

ELEVATION 4

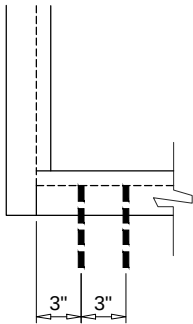
TABLE 1 - JAMB ANCHOR SPACING						
ANCHOR TYPE	MAX. 1/4" SHIM GAP			MAX. 3/8" SHIM GAP		
	MULLION SPACING (in)					
	≤ 48	≤ 60	≤ 72	≤ 48	≤ 60	≤ 72
A	12	10	8	10	8	7
B	15	12	10	15	12	10
C	15	12	10	10	8	7
D	22	17	14	15	12	10
E	17	13	11	15	12	10
F	18	14	12	12	10	8



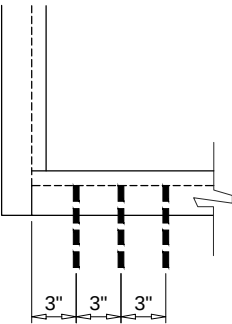
WIDTH (W) = W1 (JAMB)

ANCHORED JAMB
OPTIONAL

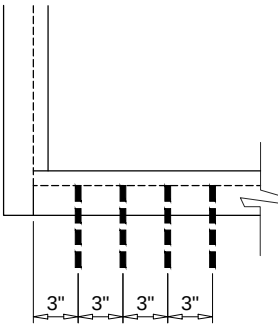
ANCHORED JAMB (WITHOUT REINF.) IS APPLICABLE
TO MAXIMUM PRESSURE, HEIGHT & SPACING.



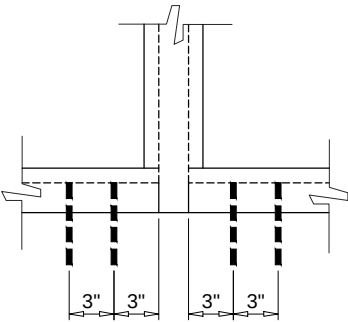
A2, B2, C2, D2, E2 or F2



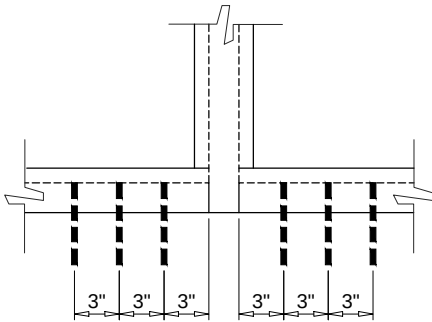
A3, B3, C3, D3, E3 or F3



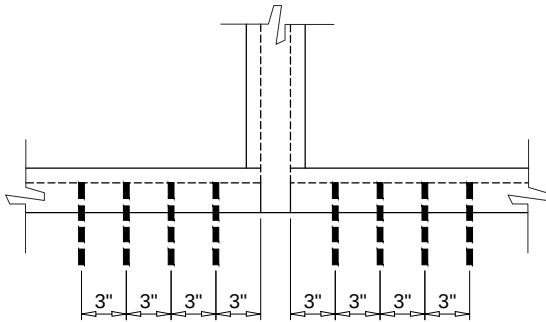
A4, B4, C4, D4, E4 or F4



A2, B2, C2, D2, E2 or F2



A3, B3, C3, D3, E3 or F3



A4, B4, C4, D4, E4 or F4

ANCHOR LAYOUT



GLASS & ALUMINUM SOLUTIONS™

<http://www.trulite.com>

403 West Park Court, Suite 201
Peachtree City, GA 30269
p. 800-432-8132

PRODUCT:

**3200 IMPACT THERMAL
STOREFRONT SYSTEM**

LMI (HVHZ)

Resistor

PRODUCT SERIES

REVN	DATE/REMARKS

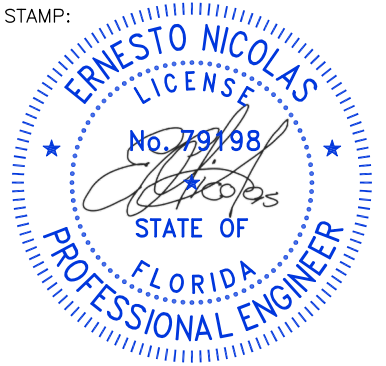
ENGINEER:



En3 Engineering & Consultancy

950 SW 135th Way Sunrise,
FL 33325 P. 786 218 7027
Email: en3.engconsul@gmail.com

STAMP:



FLORIDA PRODUCT APPROVAL:

FL45204

DATE: DECEMBER 10, 2023	
DRAWN: Erick	CHK: ESN
DRWG. No: 23FL-102	SCALE: NTS

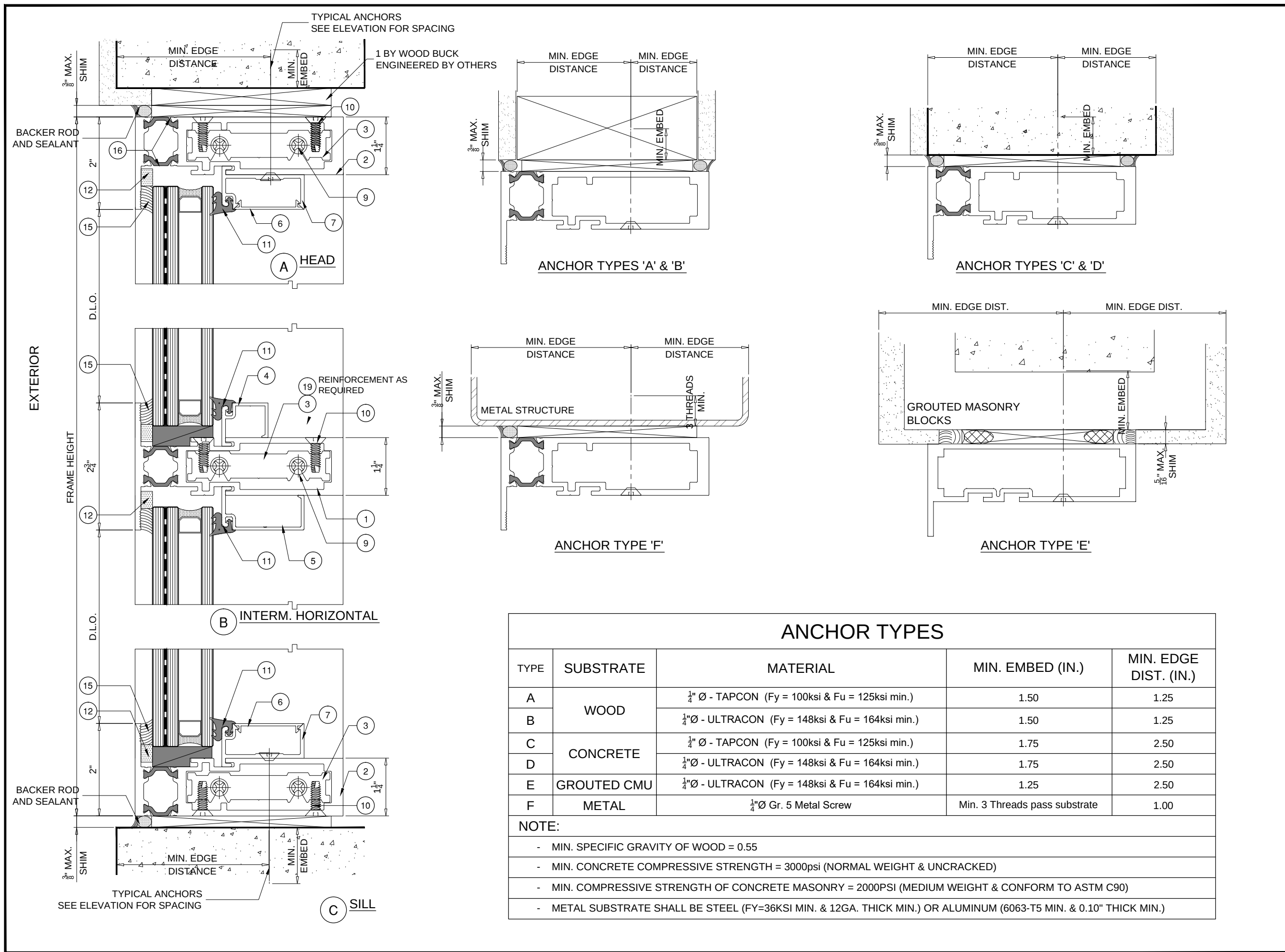
SHEET NO.:

6 OF 11

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

ANCHOR LOAD CAPACITY
REFER TO ELEVATION 4 3/8" MAX. SHIM GAP

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

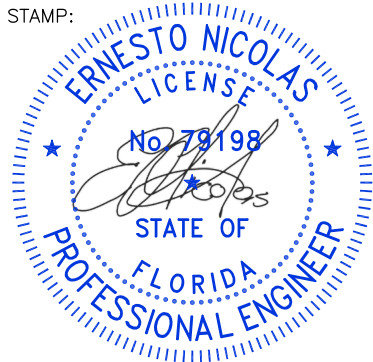


PRODUCT:
**3200 IMPACT THERMAL
STOREFRONT SYSTEM**
LMI (HVHZ)

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS

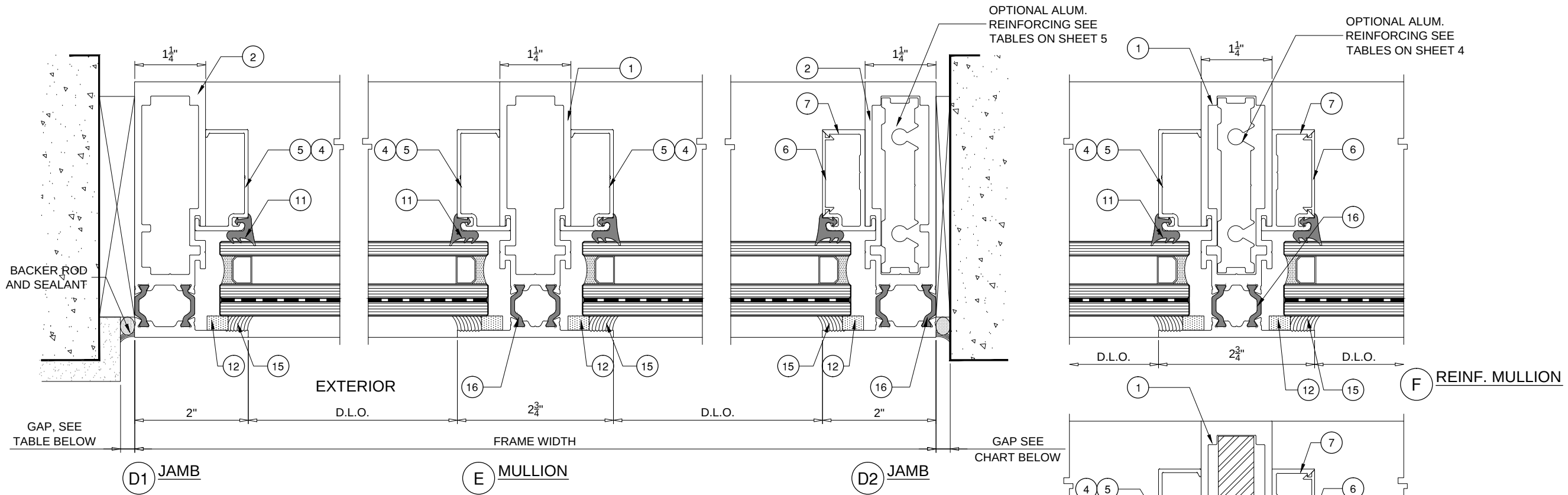
ENGINEER:
En3 Engineering & Consultancy
950 SW 135th Way Sunrise,
FL 33325 P. 786 218 7027
Email: en3.engconsul@gmail.com



FLORIDA PRODUCT APPROVAL:
FL45204

DATE: DECEMBER 10, 2023
DRAWN: Erick CHK: ESN
DRWG. No: 23FL-102 SCALE: NTS

SHEET NO.:
9 OF 11



RECOMMENDED FRAME GAP ON UN-ANCHORED JAMB USING DOWSIL 790 SEALANT (3/4" MAX. GAP)

Jamb Height (ft.)	≤6	≤8	≤10	≤12
Min. gap (in)	1/4	5/16	3/8	1/2

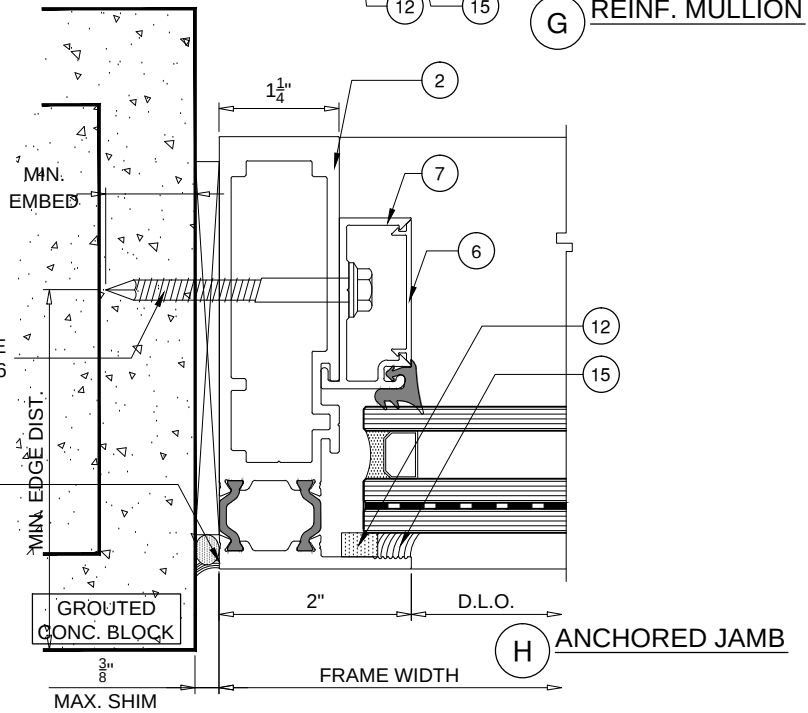
ALTERNATE SEALANT AT JAMB GAP CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER'S GUIDE LINES

BILL OF MATERIALS

ITEM #	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	3202	AS REQD.	MULLION / INTERMEDIATE	ALUM. 6063-T6	TRULITE
2	3201	AS REQD.	HEAD / SILL / JAMB	ALUM. 6063-T6	TRULITE
3	3204 CLIP	AS REQD.	SHEAR BLOCK	ALUM. 6063-T6	TRULITE
4	3003	AS REQD.	GLASS STOP	ALUM. 6063-T6	TRULITE
5	3103	AS REQD.	GLASS STOP	ALUM. 6063-T6	TRULITE
6	3303	AS REQD.	GLASS STOP (COVER)	ALUM. 6063-T6	TRULITE
7	3304	AS REQD.	GLASS STOP (GUTTER)	ALUM. 6063-T6	TRULITE
-	-	-	-	-	-
9	23233	2 / SHEAR BLOCK	1/4-20 x 1-1/2" PHMS TYPE 23 (Gr. 5)	STEEL, ZINC COATED	-
10	23163	2 / SHEAR BLOCK	#12-24 x 3/4" FHPMS TYPE 23	STEEL, ZINC COATED	-
11	RG-1	AS REQD.	WEDGE-IN GASKET	EDPM DURO ±5	TRULITE
12	V2100 / VK1826	AS REQD.	GLAZING FOAM TAPE	3/8" x 1/4" FOAM	ST. GOBAIN / CAPITAL TAPE
13	H62G	2/LITE	SETTING BLOCK (9/16" GLASS)	7/16" x 9/16" x 4" EPDM, DURO 85 ±5	-
14	H62J	2/LITE	SETTING BLOCK (1-5/16" GLASS)	7/16" x 1 5/16" x 4" EPDM, DURO 85 ±5	-
15	995, 795, 121, 983	AS REQD.	GLAZING SEALANT	SILICONE	DOWSIL
16	-	AS REQD.	THERMAL ISOLATOR	POLYAMIDE	TECHNOFORM
17	1122	AS REQD.	INSULATED ALUMINUM SPACER	0.501 x 0.282 x 0.031, 6063-T5 ALUM	HELIMA HELVETION INT. / VARIES
18	ST320	AS REQD.	5/8" x 3" STEEL REINF.	ASTM A572 - GR.50 OR EQUAL	VARIES
19	3204 REINF.	AS REQD.	ALUMINUM REINFORCEMENT	6063-T6 ALUM	TRULITE
20	-	AS REQD.	KODISPACE 4SG WARM EDGE SPACER	THERMOPLASTIC	HB FULLER/KOMMERLING

ANCHORED JAMB SEE TABLE ON SHEET 6

BACKER ROD AND SEALANT



GLASS & ALUMINUM SOLUTIONS™

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403 West Park Court, Suite 201
Peachtree City, GA 30269
p. 800-432-8132

PRODUCT:

3200 IMPACT THERMAL
STOREFRONT SYSTEM

LMI (HVHZ)

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS

ENGINEER:



En3 Engineering & Consultancy

950 SW 135th Way Sunrise,
FL 33325 P. 786 218 7027
Email: en3.engconsul@gmail.com

STAMP:



FLORIDA PRODUCT APPROVAL:

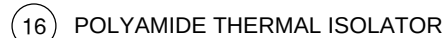
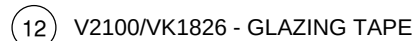
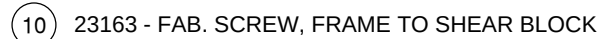
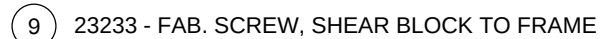
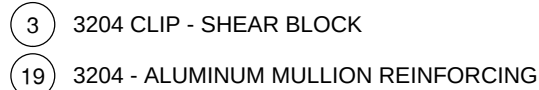
FL45204

DATE: DECEMBER 10, 2023

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

SHEET NO.:

10 OF 11



REVN	DATE/REMARKS