

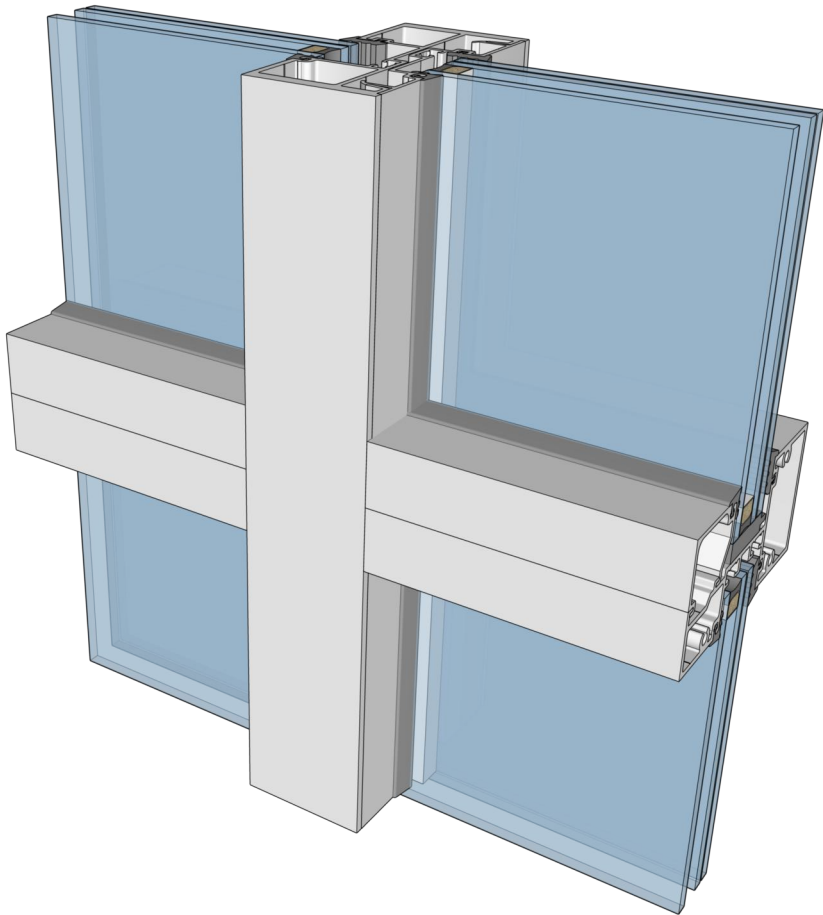
TRULITE GLASS & ALUMINUM SOLUTIONS

SERIES CG502 IMPACT RESISTANT STOREFRONT SYSTEM

WITH MULTIPLE INFILLS, WET & DRY GLAZED (LMI - HVHZ)

GENERAL NOTES:

- 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 201-94 (ASTM E283, ASTM E330, ASTM E331)
 - TAS 202-94 (ASTM 1996)
 - TAS 203-94 (ASTM E 1886)
- SERIES CG502 IMPACT 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-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 AND WITHIN 1MILE OF THE COAST LINE (EXCLUDING HVHZ)
- THIS STOREFRONT SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.
- CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.
- THE MAIN STRUCTURE WHERE THIS STOREFRONT SYSTEM WILL BE INSTALLED MUST BE CAPABLE OF SUPPORTING ALL THE LOADS IMPOSED BY THIS STOREFRONT SYSTEM.
- 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.
- INSTALLATION ANCHORS MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- 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.



- ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.
- A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- 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.

INSTRUCTIONS FOR USE:

- DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- SEE TABLE ON SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- CHECK CAPACITY OF INTERMEDIATE VERTICAL/MULLION AND DOOR JAMB/MULLION ON SHEETS 3 & 4 CHARTS. DOUBLE DOOR JAMB CAPACITY SHALL BE AS PER CHARTS ON SHEETS 5 TO 8 FOR A GIVEN SPACING AND HEIGHT. THE CAPACITY SHOULD BE EQUAL OR GREATER THAN THE DESIGN LOAD.
- USING CHARTS ON SHEETS 12 THRU 15 SELECT MULLION/DOOR JAMB ANCHOR OPTIONS. FOR DOUBLE DOOR JAMB SEE TABLES A2 & A3 ON SHEET 8. DESIGN RATING MUST BE EQUAL OR GREATER THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- THE LOWEST VALUE RESULTING FROM STEP 2,3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS:

DLO - DAYLIGHT OPENING
TYP. - TYPICAL
FH - FRAME HEIGHT
DOW - DOOR OPENING WIDTH
DOH - DOOR OPENING HEIGHT
DP - DESIGN PRESSURE
N.T.S. - NOT TO SCALE

LIMITATION OF USE

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



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PEACHTREE CITY, GA 30269
p. 800-432-8132

PRODUCT:

CG502 IMPACT
STORE FRONT SYSTEM
LMI (HVHZ)
(WET/DRY GLAZED)



REVN	DATE/REMARKS

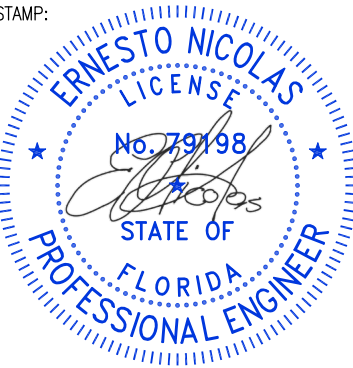
ENGINEER:



En3 Engineering & Consultancy

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

STAMP:



FLORIDA PRODUCT APPROVAL:

FL44610

DATE:	OCT. 20, 2023
DRAWN: Erick	CHK: ESN
DRWG. No: 23FL-104	SCALE: N.T.S.

SHEET NO.:

1 OF 20



1. OTHER GLASS SIZES ARE QUALIFIED AS LONG AS EQUAL OR LESS THAN THE TESTED GLASS AREA.
2. PROVIDE 2 SETTING BLOCKS PER GLASS PANEL AS PER FBC CHAPTER 24. LOCATE SETTING BLOCKS AT L/4 FOR SPAN UP TO 60" AND L/8 FOR SPAN GREATER THAN 60"
3. GLASS CAPACITIES WERE VERIFIED BASED ON ASTM E1300-16 (3 SEC. GUSTS).]
4. INSULATED GLASS SEALANT:
PRIMARY SEALANT: PIB-POLYISOBUTYLENE
SECONDARY SEALANT: SILICONE SEALANT

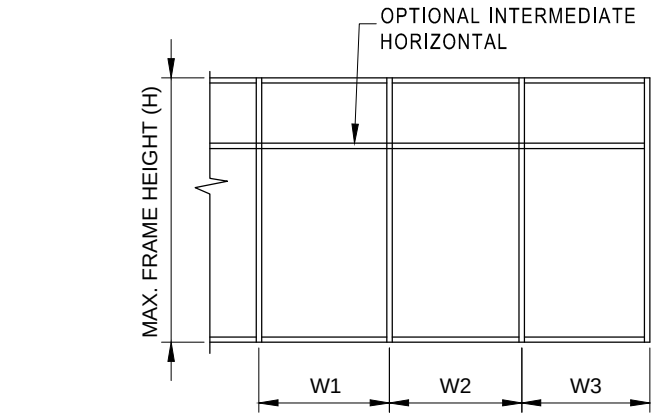


GLAZING OPTIONS							
TYPE	*INTERLAYER OPTIONS	GLAZING APPLICATION	TESTED DLO (in)		DLO AREA (ft ²)	DP (psf)	
			WIDTH	HEIGHT		EXT. (+)	INT. (-)
G1	SAFLEX HP100 BY EASTMAN CHEM.	WET	45.50	121.00	38.2	60	75
G2	0.090" SAFLEX PVB BY EASTMAN CHEM.	WET	45.50	96.00	30.3	65	65
G3	0.090" SENTRYGLAS BY KURARAY	DRY & WET	45.50	96.00	30.3	70	80
G4a	0.090" TROSIFOL PVB BY KURARAY	WET	45.50	84.00	26.5	65	65
G4b	0.090" TROSIFOL PVB BY KURARAY	WET	45.50	96.00	30.3	60	60
G4c	0.090" TROSIFOL PVB BY KURARAY	DRY	45.50	22.50	7.1	70	80

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MAX. DESIGN PRESSURE (psf)					
DIMENSIONS (in)		M1		J1	
W	H	EXT (+)	INT (-)	EXT (+)	INT (-)
60	84	65.0	80.0	65.0	80.0
60	90	65.0	80.0	65.0	80.0
60	96	65.0	80.0	65.0	80.0
54	102	65.0	80.0	65.0	80.0
48	108	65.0	80.0	65.0	80.0
54	108	65.0	78.6	65.0	75.4
42	114	65.0	80.0	65.0	80.0
48	114	65.0	76.6	65.0	75.0
36	120	65.0	80.0	65.0	80.0
42	120	65.0	75.1	65.0	75.0
48	120	65.0	75.0	61.9	72.8
30	126	65.0	80.0	65.0	80.0
36	126	65.0	75.7	65.0	75.0
42	126	64.9	75.0	61.1	71.9
48	126	56.8	66.8	55.1	62.9
24	132	65.0	80.0	65.0	80.0
30	132	65.0	79.0	65.0	75.0
36	132	65.0	75.0	62.0	72.9
42	132	56.4	66.4	57.4	62.5
48	132	50.2	58.1	50.2	54.7
24	138	65.0	80.0	65.0	80.0
30	138	65.0	75.0	65.0	75.0
36	138	60.0	67.8	60.0	63.8
42	138	52.5	58.1	52.5	54.7
24	144	65.0	76.1	65.0	75.0
30	144	60.8	71.6	60.0	67.4
36	144	56.3	59.7	56.2	56.2
42	144	48.2	51.2	48.1	48.1

MULLION/JAMB CAPACITY TABLE
REFER TO ELEV. E1

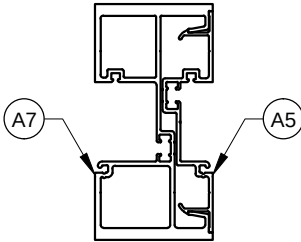


ELEVATION E1

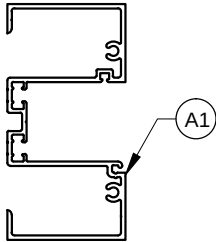
MULLION SPACING (W) = $\frac{W1 + W2}{2}$

MULLION SPACING (W) = $\frac{W2 + W3}{2}$

WIDTH (W) = W3 (JAMB)



M1	
PART NO.	I _x (in ⁴)
CT501-7	9.288
CT501-5	1.1543
TOTAL	10.442



J1 (UN-ANCHORED JAMB)	
PART NO.	I _x (in ⁴)
CT501-11	4.913
TOTAL	4.913



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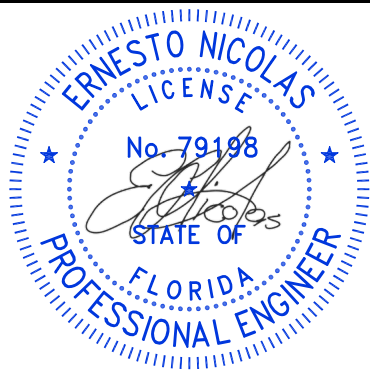
REVN	DATE/REMARKS

ENGINEER:



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DRWG. No: 23FL-104 SCALE: N.T.S.

SHEET NO.:

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DIMENSIONS (in)		DJM1	
W	H	EXT (+)	INT (-)
60	78	70.0	85.0
54	84	70.0	85.0
42	90	70.0	85.0
48	90	70.0	84.9
42	96	70.0	85.0
48	96	70.0	74.7
36	102	70.0	85.0
42	102	70.0	74.4
30	108	70.0	85.0
36	108	70.0	73.2
42	108	62.7	62.7
30	114	70.0	74.7
36	114	62.2	62.2
42	114	53.3	53.3
30	120	64.0	64.0
36	120	53.3	53.3
30	126	55.3	55.3
36	126	46.1	46.1
30	132	48.1	48.1
36	132	40.1	40.1
30	138	42.1	42.1
24	144	46.3	46.3
30	144	37.0	37.0

DIMENSIONS (in)		DJM2	
W	H	EXT (+)	INT (-)
60	78	70.0	85.0
54	84	70.0	85.0
42	90	70.0	85.0
48	90	70.0	84.9
66	90	60.0	75.0
42	96	70.0	85.0
48	96	70.0	75.0
60	96	60.0	75.0
66	96	60.0	72.4
36	102	70.0	85.0
42	102	70.0	75.0
54	102	60.0	75.0
60	102	60.0	74.9
66	102	60.0	68.1
30	108	70.0	85.0
36	108	70.0	75.0
42	108	62.7	75.0
54	108	60.0	75.0
60	108	60.0	70.8
66	108	60.0	64.3

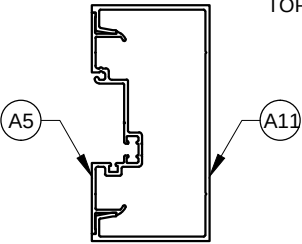
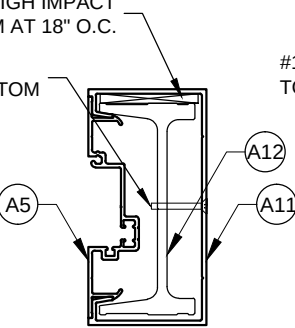
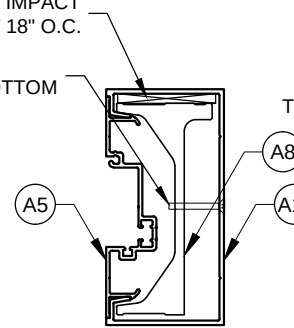
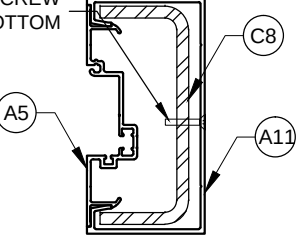
DIMENSIONS (in)		DJM2	
W	H	EXT (+)	INT (-)
30	114	70.0	75.0
36	114	62.2	75.0
48	114	60.0	75.0
54	114	60.0	74.5
60	114	60.0	67.0
66	114	60.0	60.9
48	120	60.0	75.0
54	120	60.0	70.8
60	120	60.0	63.7
66	120	57.9	57.9
42	126	60.0	75.0
48	126	60.0	73.3
54	126	60.0	65.1
60	126	58.6	58.6
66	126	53.3	53.3
36	132	60.0	75.0
42	132	60.0	72.8
48	132	60.0	63.7
54	132	56.7	56.7
60	132	51.0	51.0
30	138	60.0	75.0
36	138	60.0	74.4
42	138	60.0	63.8
48	138	55.8	55.8
54	138	49.6	49.6
60	138	44.6	44.6
30	144	60.0	75.0
36	144	60.0	65.5
42	144	56.1	56.1
48	144	49.1	49.1
54	144	43.6	43.6

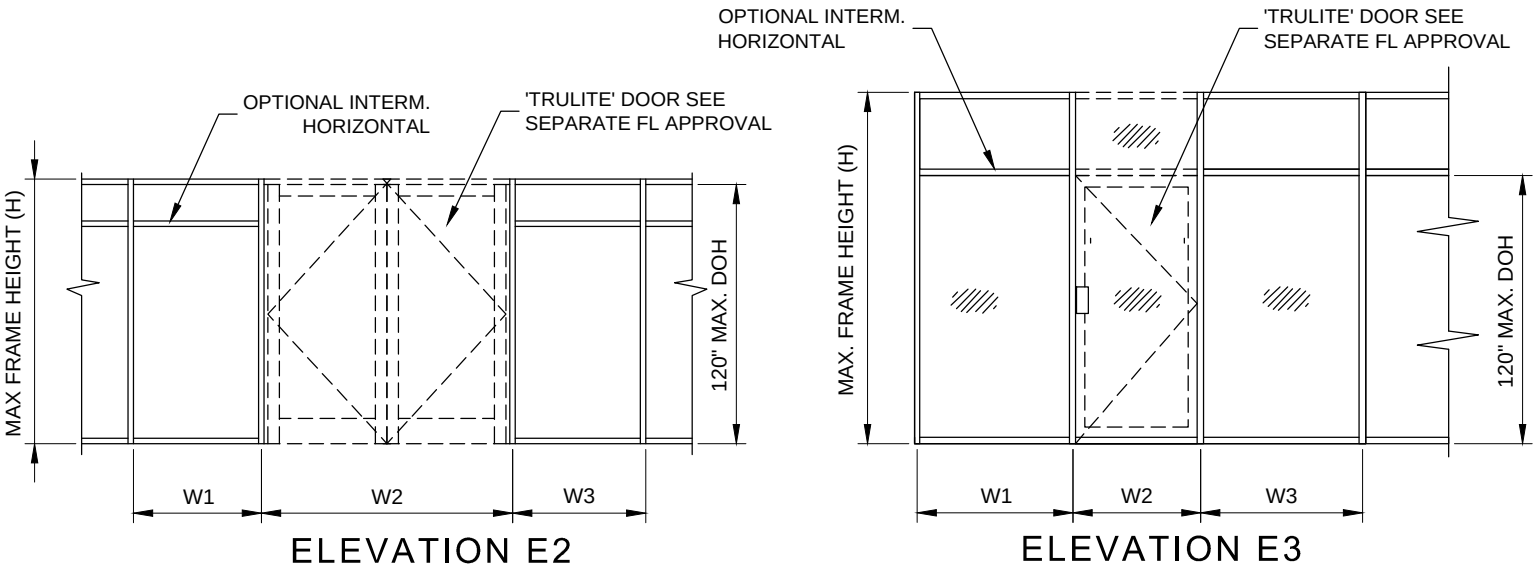
DIMENSIONS (in)		DJM3	
W	H	EXT (+)	INT (-)
60	78	70.0	85.0
66	78	70.0	75.0
54	84	70.0	85.0
66	84	70.0	75.0
42	90	70.0	85.0
48	90	70.0	84.9
66	90	70.0	75.0
42	96	70.0	85.0
48	96	70.0	75.0
60	96	70.0	75.0
66	96	70.0	72.4

DIMENSIONS (in)		DJM3	
W	H	EXT (+)	INT (-)
36	102	70.0	85.0
54	102	70.0	75.0
60	102	70.0	74.9
66	102	70.0	70.0
30	108	70.0	85.0
54	108	70.0	75.0
60	108	70.0	70.8
66	108	70.0	70.0
48	114	70.0	75.0
54	114	70.0	74.5
66	114	70.0	70.0
48	120	70.0	75.0
54	120	70.0	70.8
66	120	70.0	70.0
42	126	70.0	75.0
66	126	70.0	70.0
36	132	70.0	75.0
60	132	70.0	70.0
30	138	70.0	75.0
36	138	70.0	74.4
54	138	70.0	70.0
60	138	65.4	65.4
30	144	70.0	75.0
48	144	70.0	70.0
54	144	66.7	66.7

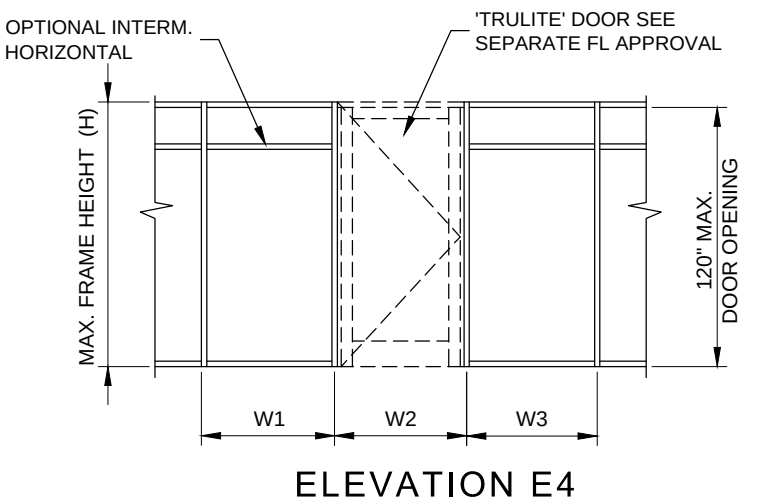
JAMB/MULLION CAPACITY TABLES

REFER TO ELEVS. E2, E3 & E4

							
DJM1		DJM2		DJM2 (OPTION)		DJM3	
PART NO.	I _x (in ⁴)	PART NO.	I _x (in ⁴)	PART NO.	I _x (in ⁴)	PART NO.	I _x (in ⁴)
DF500-1	4.306	DF500-1	4.306	DF500-1	4.306	DF500-1	4.306
CG502-5	1.154	CG502-5	1.154	CG502-5	1.154	CG502-5	1.154
TOTAL	5.460	DF500-3	6.053	DF500-4	6.6471	ST500-1 in Alum.	16.068
		TOTAL	11.513	TOTAL	12.107	TOTAL	21.528



$$\text{MULLION WIDTH (W)} = \frac{W1}{2} + \frac{W2}{4}$$
$$\text{MULLION WIDTH (W)} = \frac{W3}{2} + \frac{W2}{4}$$



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



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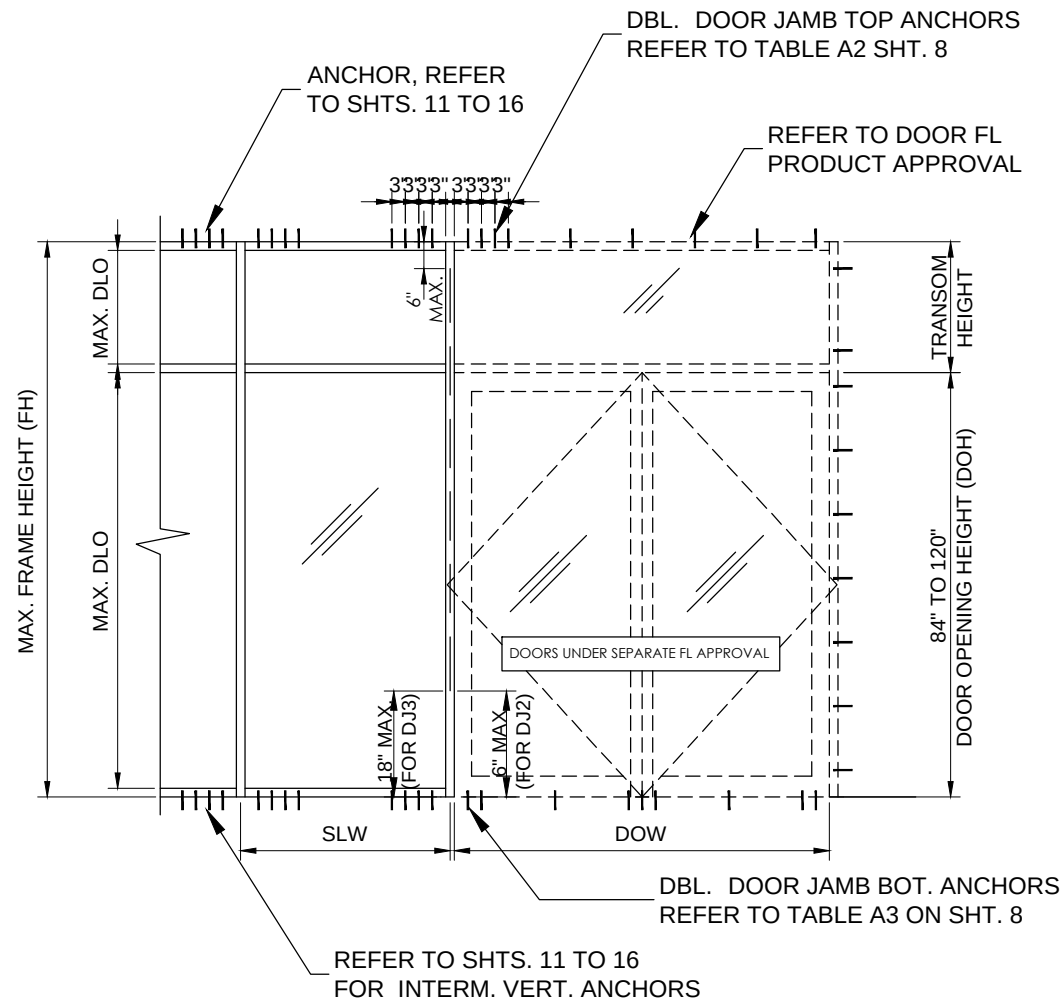
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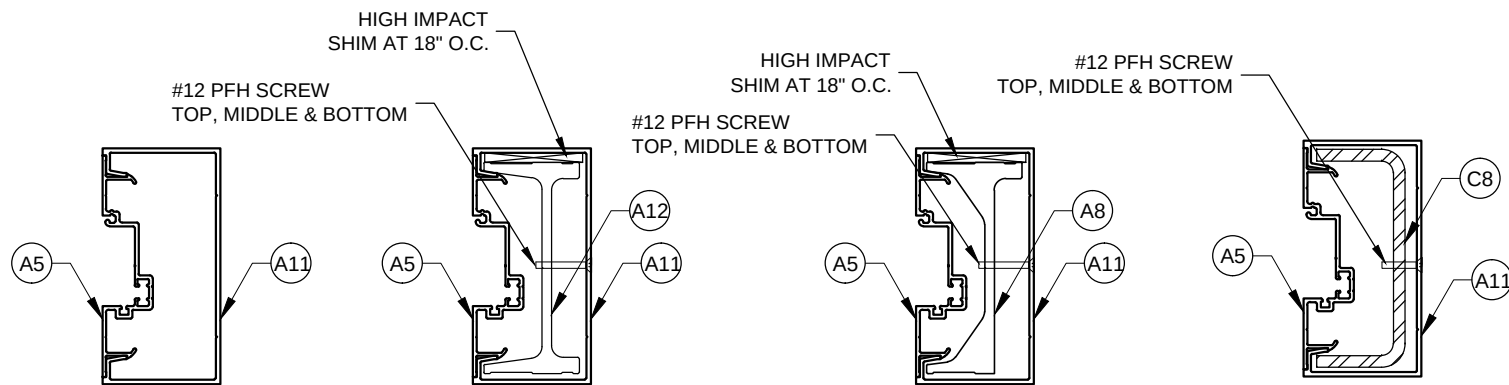
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ELEVATION E5



DJ1	
PART NO.	l _x (in ⁴)
DF500-1	4.306
CG502-5	1.154
TOTAL	5.460

DJ2	
PART NO.	l _x (in ⁴)
DF500-1	4.306
CG502-5	1.154
DF500-3	6.053
TOTAL	11.513

DJ2 (OPTION)	
PART NO.	l _x (in ⁴)
DF500-1	4.306
CG502-5	1.154
DF500-4	6.6471
TOTAL	12.107

DJ3	
PART NO.	l _x (in ⁴)
DF500-1	4.306
CG502-5	1.154
ST500-1 in Alum.	16.068
TOTAL	21.528

DJ1 CAPACITIY (psf)					
DIMENSIONS (in)				ALLOW. DP	
FH	SLW	DOW	DOH	EXT (+)	INT (-)
102	24	72	84	70.0	75.0
102	30	72	84	69.8	69.8
102	36	72	84	65.4	65.4
102	42	72	84	61.4	61.4
102	48	72	84	58.0	58.0
102	54	72	84	54.8	54.8
108	24	72	84	63.5	63.5
108	30	72	84	59.4	59.4
108	36	72	84	55.7	55.7
108	42	72	84	52.5	52.5
108	48	72	84	49.7	49.7
114	24	72	84	54.5	54.5
114	30	72	84	50.8	50.8
114	36	72	84	47.5	47.5
120	24	72	84	45.4	45.4
120	30	72	84	42.4	42.4
126	24	72	84	38.4	38.4
126	30	72	84	35.9	35.9
132	24	72	84	32.9	32.9
102	30	72	90	70.0	75.3
102	36	72	90	70.0	70.2
102	42	72	90	65.7	65.7
102	48	72	90	61.7	61.7
102	54	72	90	58.2	58.2
108	24	72	90	67.6	67.6
108	30	72	90	63.0	63.0
108	36	72	90	58.9	58.9
108	42	72	90	55.3	55.3
108	48	72	90	52.1	52.1
114	24	72	90	57.1	57.1
114	30	72	90	53.0	53.0
114	36	72	90	49.5	49.5
120	24	72	90	47.2	47.2
120	30	72	90	44.0	44.0
126	24	72	90	39.6	39.6
126	30	72	90	37.0	37.0
132	24	72	90	33.7	33.7
108	24	72	96	70.0	73.2
108	30	72	96	67.8	67.8
108	36	72	96	63.1	63.1
108	42	72	96	59.0	59.0
108	48	72	96	55.4	55.4

DJ1 CAPACITIY (psf)					
DIMENSIONS (in)				ALLOW. DP	
FH	SLW	DOW	DOH	EXT (+)	INT (-)
114	24	72	96	60.3	60.3
114	30	72	96	55.8	55.8
114	36	72	96	51.9	51.9
120	24	72	96	49.4	49.4
120	30	72	96	45.9	45.9
126	24	72	96	41.2	41.2
126	30	72	96	38.3	38.3
132	24	72	96	34.8	34.8
114	24	72	102	64.2	64.2
114	30	72	102	59.1	59.1
114	36	72	102	54.8	54.8
120	24	72	102	52.1	52.1
120	30	72	102	48.2	48.2
126	24	72	102	43.1	43.1
126	30	72	102	40.0	40.0
132	24	72	102	36.1	36.1
120	24	72	108	55.4	55.4
120	30	72	108	51.0	51.0
126	24	72	108	45.4	45.4
126	30	72	108	41.9	41.9
132	24	72	108	37.8	37.8
126	24	72	114	48.1	48.1
126	30	72	114	44.2	44.2
132	24	72	114	39.7	39.7
132	24	72	120	42.0	42.0

DJ1 CAPACITIY (psf)					
DIMENSIONS (in)				ALLOW. DP	
FH	SLW	DOW	DOH	EXT (+)	INT (-)
102	24	84	84	67.3	67.3
102	30	84	84	63.2	63.2
102	36	84	84	59.5	59.5
102	42	84	84	56.2	56.2
108	24	84	84	56.9	56.9
108	30	84	84	53.6	53.6
108	36	84	84	50.6	50.6
114	24	84	84	48.9	48.9
102	30	84	90	68.4	68.4
102	36	84	90	64.1	64.1
102	42	84	90	60.3	60.3
108	24	84	90	60.8	60.8

DOUBLE DOOR JAMB CAP. TABLE

(WITH TRANSOM & SIDELITES)REFER TO ELEV. E5



GLASS & ALUMINUM SOLUTIONS™
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p. 800-432-8132

PRODUCT:

CG502 IMPACT
STORE FRONT SYSTEM
LMI (HVHZ)
(WET/DRY GLAZED)



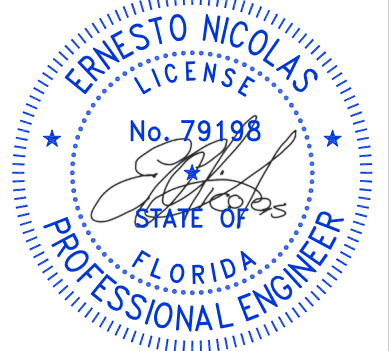
REVN DATE/REMARKS

ENGINEER:



En3 Engineering & Consultancy

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



FLORIDA PRODUCT APPROVAL:

FL44610

DATE: OCT. 20, 2023

DRAWN: Erick CHK: ESN

DRWG. No: 23FL-104 SCALE: N.T.S.

SHEET NO.:

5 OF 20

DJ1 CAPACITIY (psf)					
DIMENSIONS (in)				ALLOW. DP	
FH	SLW	DOW	DOH	EXT (+)	INT (-)
108	30	84	90	57.0	57.0
108	36	84	90	53.6	53.6
114	24	84	90	51.3	51.3
108	24	84	96	66.0	66.0
108	30	84	96	61.6	61.6
108	36	84	96	57.7	57.7
114	24	84	96	54.4	54.4
114	24	84	102	58.0	58.0

DJ2 CAPACITIY (psf)					
DIMENSIONS (in)				ALLOW. DP	
FH	SLW	DOW	DOH	EXT (+)	INT (-)
102	24	72	84	70.0	75.0
102	30	72	84	69.8	75.0
102	36	72	84	65.4	75.0
102	42	72	84	61.4	75.0
102	60	72	84	60.0	75.0
108	24	72	84	63.5	75.0
114	60	72	84	60.0	75.0
120	48	72	84	60.0	75.0
120	54	72	84	60.0	71.1
120	60	72	84	60.0	67.6
126	30	72	84	60.0	75.0
126	36	72	84	60.0	71.5
126	42	72	84	60.0	67.4
126	48	72	84	60.0	63.7
126	54	72	84	60.0	60.4
126	60	72	84	57.5	57.5
132	24	72	84	60.0	69.7
132	30	72	84	60.0	65.2
132	36	72	84	60.0	61.3
132	42	72	84	57.8	57.8
132	48	72	84	54.7	54.7
144	24	72	84	52.5	52.5
144	30	72	84	49.2	49.2
144	36	72	84	46.3	46.3
144	42	72	84	43.7	43.7
102	30	72	90	70.0	75.3
102	36	72	90	70.0	75.0
102	42	72	90	65.7	75.0
102	48	72	90	61.7	75.0

DJ2 CAPACITIY (psf)					
DIMENSIONS (in)				ALLOW. DP	
FH	SLW	DOW	DOH	EXT (+)	INT (-)
102	60	72	90	60.0	75.0
108	24	72	90	67.6	75.0
108	30	72	90	63.0	75.0
114	60	72	90	60.0	75.0
120	48	72	90	60.0	75.0
120	54	72	90	60.0	73.1
120	60	72	90	60.0	69.4
126	30	72	90	60.0	75.0
126	36	72	90	60.0	73.5
126	42	72	90	60.0	69.2
126	48	72	90	60.0	65.3
126	54	72	90	60.0	61.9
126	60	72	90	58.8	58.8
132	24	72	90	60.0	71.5
132	30	72	90	60.0	66.8
132	36	72	90	60.0	62.7
132	42	72	90	59.1	59.1
132	48	72	90	55.8	55.8
144	24	72	90	53.4	53.4
144	30	72	90	50.0	50.0
144	36	72	90	47.0	47.0
144	42	72	90	44.3	44.3
108	24	72	96	70.0	75.0
108	30	72	96	67.8	75.0
108	36	72	96	63.1	75.0
108	60	72	96	60.0	75.0
114	24	72	96	60.3	75.0
114	60	72	96	60.0	75.0
120	54	72	96	60.0	75.0
120	60	72	96	60.0	71.6
126	24	72	96	60.0	75.0
126	30	72	96	60.0	75.0
126	36	72	96	60.0	75.0
126	42	72	96	60.0	71.4
126	48	72	96	60.0	67.3
126	54	72	96	60.0	63.6
126	60	72	96	60.0	60.0
132	24	72	96	60.0	73.8
132	30	72	96	60.0	68.8
132	36	72	96	60.0	64.5
132	42	72	96	60.0	60.6
132	48	72	96	57.2	57.2

DJ2 CAPACITIY (psf)					
DIMENSIONS (in)				ALLOW. DP	
FH	SLW	DOW	DOH	EXT (+)	INT (-)
138	24	72	96	60.0	63.1
138	30	72	96	58.9	58.9
138	36	72	96	55.3	55.3
138	42	72	96	52.1	52.1
138	48	72	96	49.2	49.2
144	24	72	96	54.5	54.5
144	30	72	96	51.0	51.0
144	36	72	96	47.9	47.9
144	42	72	96	45.1	45.1
114	60	72	102	60.0	75.0
120	54	72	102	60.0	75.0
120	60	72	102	60.0	74.3
126	36	72	102	60.0	75.0
126	42	72	102	60.0	74.0
126	48	72	102	60.0	69.7
126	54	72	102	60.0	65.7
126	60	72	102	60.0	60.0
132	24	72	102	60.0	75.0
132	30	72	102	60.0	71.3
132	36	72	102	60.0	66.6
132	42	72	102	60.0	62.5
132	48	72	102	58.9	58.9
144	24	72	102	56.0	56.0
144	30	72	102	52.3	52.3
144	36	72	102	49.0	49.0
144	42	72	102	46.1	46.1
120	60	72	108	60.0	75.0
126	42	72	108	60.0	75.0
126	48	72	108	60.0	72.4
126	54	72	108	60.0	68.2
126	60	72	108	60.0	60.0
132	24	72	108	60.0	75.0
132	30	72	108	60.0	74.3
132	36	72	108	60.0	69.2
132	42	72	108	60.0	64.8
132	48	72	108	60.0	61.0
144	24	72	108	57.8	57.8
144	30	72	108	53.9	53.9
144	36	72	108	50.4	50.4
144	42	72	108	47.4	47.4
126	48	72	114	60.0	75.0
126	54	72	114	60.0	71.1

DJ2 CAPACITIY (psf)					
DIMENSIONS (in)				ALLOW. DP	
FH	SLW	DOW	DOH	EXT (+)	INT (-)
126	60	72	114	60.0	60.0
132	30	72	114	60.0	75.0
132	36	72	114	60.0	72.3
132	42	72	114	60.0	67.5
132	48	72	114	60.0	63.3
144	24	72	114	60.0	60.1
144	30	72	114	55.8	55.8
144	36	72	114	52.1	52.1
144	42	72	114	48.9	48.9
132	36	72	120	60.0	75.0
132	42	72	120	60.0	70.6
132	48	72	120	60.0	66.0
144	24	72	120	60.0	62.7
144	30	72	120	58.0	58.0
144	36	72	120	54.0	54.0
144	42	72	120	50.6	50.6

DJ2 CAPACITIY (psf)					
DIMENSIONS (in)				ALLOW. DP	
FH	SLW	DOW	DOH	EXT (+)	INT (-)
102	24	84	84	67.3	75.0
102	30	84	84	63.2	75.0
108	60	84	84	60.0	75.0
114	54	84	84	60.0	75.0
114	60	84	84	60.0	74.5
120	36	84	84	60.0	75.0
120	42	84	84	60.0	72.5
120	48	84	84	60.0	68.8
120	54	84	84	60.0	65.5
126	24	84	84	60.0	73.0
126	30	84	84	60.0	68.7
126	36	84	84	60.0	64.9
126	42	84	84	60.0	61.5
126	48	84	84	58.4	58.4
132	24	84	84	60.0	62.4
132	30	84	84	58.8	58.8
132	36	84	84	55.6	55.6
144	24	84	84	47.0	47.0
144	30	84	84	44.3	44.3
102	30	84	90	68.4	75.0
102	36	84	90	64.1	75.0

DJ2 CAPACITIY (psf)					
DIMENSIONS (in)				ALLOW. DP	
FH	SLW	DOW	DOH	EXT (+)	INT (-)
102	36	84	90	64.1	75.0
114	60	84	90	60.0	75.0
120	42	84	90	60.0	75.0
120	48	84	90	60.0	71.1
120	54	84	90	60.0	67.5
126	24	84	90	60.0	75.0
126	30	84	90	60.0	70.8
126	36	84	90	60.0	66.8
126	42	84	90	60.0	63.2
126	48	84	90	60.0	60.0
132	24	84	90	60.0	64.0
132	30	84	90	60.0	60.3
132	36	84	90	56.9	56.9
144	24	84	90	47.8	47.8
144	30	84	90	45.0	45.0
108	24	84	96	66.0	75.0
108	30	84	96	61.6	75.0
120	42	84	96	60.0	75.0
120	48	84	96	60.0	73.8
120	54	84	96	60.0	70.0
126	24	84	96	60.0	75.0
126	30	84	96	60.0	73.5
126	36	84	96	60.0	69.2
126	42	84	96	60.0	65.3
126	48	84	96	60.0	60.0
132	24	84	96	60.0	66.2
132	30	84	96	60.0	62.2
132	36	84	96	58.6	58.6
138	24	84	96	56.6	56.6
138	30	84	96	53.2	53.2
138	36	84	96	50.2	50.2
144	24	84	96	48.8	48.8
144	30	84	96	46.0	46.0
114	60	84	102	60.0	75.0
120	48	84	102	60.0	75.0
120	54	84	102	60.0	72.9
126	30	84	102	60.0	75.0
126	36	84	102	60.0	72.1
126	42	84	102	60.0	67.9
126	48	84	102	60.0	60.0
132	24	84	102	60.0	68.9
132	30	84	102	60.0	64.5

DOUBLE DOOR JAMB CAPACITY TABLE
(WITH TRANSOM & SIDELITES)REFER TO ELEV. E5



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PRODUCT:

CG502 IMPACT
STORE FRONT SYSTEM
LMI (HVHZ)
(WET/DRY GLAZED)



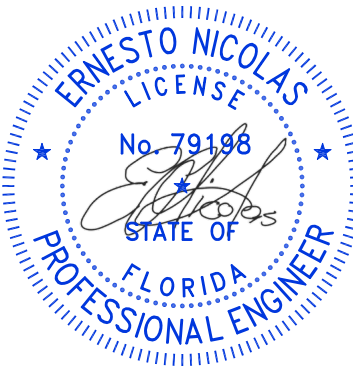
REVN	DATE/REMARKS

ENGINEER:



En3 Engineering & Consultancy

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



DJ2 CAPACITIY (psf)						
DIMENSIONS (in)				ALLOW. DP		
FH	SLW	DOW	DOH	EXT (+)	INT (-)	
132	36	84	102	60.0	60.7	
144	24	84	102	50.2	50.2	
144	30	84	102	47.2	47.2	
120	54	84	108	60.0	75.0	
126	36	84	108	60.0	75.0	
126	42	84	108	60.0	71.0	
126	48	84	108	60.0	60.0	
132	24	84	108	60.0	72.2	
132	30	84	108	60.0	67.4	
132	36	84	108	60.0	63.2	
144	24	84	108	51.9	51.9	
144	30	84	108	48.7	48.7	
126	36	84	114	60.0	75.0	
126	42	84	114	60.0	74.7	
126	48	84	114	60.0	60.0	
132	24	84	114	60.0	75.0	
132	30	84	114	60.0	70.8	
132	36	84	114	60.0	66.2	
144	24	84	114	54.0	54.0	
144	30	84	114	50.5	50.5	
132	24	84	120	60.0	75.0	
132	30	84	120	60.0	74.8	
132	36	84	120	60.0	69.7	
144	24	84	120	56.5	56.5	
144	30	84	120	52.7	52.7	

DJ2 CAPACITIY (psf)						
DIMENSIONS (in)				ALLOW. DP		
FH	SLW	DOW	DOH	EXT (+)	INT (-)	
102	60	96	84	60.0	75.0	
108	54	96	84	60.0	75.0	
114	48	96	84	60.0	75.0	
120	24	96	84	60.0	75.0	
120	30	96	84	60.0	74.0	
120	36	96	84	60.0	70.2	
120	42	96	84	60.0	66.7	
126	24	96	84	60.0	66.1	
126	30	96	84	60.0	62.5	
126	36	96	84	59.4	59.4	
132	24	96	84	56.5	56.5	
102	60	96	90	60.0	75.0	

DJ2 CAPACITIY (psf)						
DIMENSIONS (in)				ALLOW. DP		
FH	SLW	DOW	DOH	EXT (+)	INT (-)	
108	54	96	90	60.0	75.0	
114	48	96	90	60.0	75.0	
120	30	96	90	60.0	75.0	
120	36	96	90	60.0	72.8	
120	42	96	90	60.0	69.1	
126	24	96	90	60.0	68.3	
126	30	96	90	60.0	64.6	
126	36	96	90	60.0	60.0	
132	24	96	90	58.0	58.0	
108	54	96	96	60.0	75.0	
114	48	96	96	60.0	75.0	
120	36	96	96	60.0	75.0	
120	42	96	96	60.0	72.1	
126	24	96	96	60.0	71.2	
126	30	96	96	60.0	67.1	
126	36	96	96	60.0	60.0	
132	24	96	96	60.0	60.0	
138	24	96	96	51.3	51.3	
114	48	96	102	60.0	75.0	
120	42	96	102	60.0	75.0	
126	24	96	102	60.0	74.8	
126	30	96	102	60.0	70.3	
126	36	96	102	60.0	60.0	
132	24	96	102	60.0	62.6	
120	42	96	108	60.0	75.0	
126	24	96	108	60.0	75.0	
126	30	96	108	60.0	74.1	
126	36	96	108	60.0	60.0	
132	24	96	108	60.0	65.6	
126	36	96	114	60.0	60.0	
132	24	96	114	60.0	69.3	
132	24	96	120	60.0	73.7	

DJ3 CAPACITIY (psf)						
DIMENSIONS (in)				ALLOW. DP		
FH	SLW	DOW	DOH	EXT (+)	INT (-)	
114	60	72	84	70.0	75.0	
120	48	72	84	70.0	75.0	
120	54	72	84	70.0	71.1	
120	60	72	84	70.0	70.0	
126	24	72	84	70.0	75.0	

DJ3 CAPACITIY (psf)						
DIMENSIONS (in)				ALLOW. DP		
FH	SLW	DOW	DOH	EXT (+)	INT (-)	
126	30	72	84	70.0	75.0	
126	36	72	84	70.0	71.5	
126	60	72	84	70.0	70.0	
132	48	72	84	70.0	70.0	
144	30	72	84	70.0	70.0	
144	36	72	84	68.7	68.7	
144	42	72	84	64.9	64.9	
102	30	72	90	70.0	75.3	
108	60	72	90	70.0	75.0	
114	60	72	90	70.0	75.0	
120	48	72	90	70.0	75.0	
120	54	72	90	70.0	73.1	
120	60	72	90	70.0	70.0	
126	24	72	90	70.0	75.0	
126	30	72	90	70.0	75.0	
126	36	72	90	70.0	73.5	
126	60	72	90	70.0	70.0	
132	24	72	90	70.0	71.5	
132	48	72	90	70.0	70.0	
144	30	72	90	70.0	70.0	
144	36	72	90	69.7	69.7	
144	42	72	90	65.7	65.7	
114	60	72	96	70.0	75.0	
120	54	72	96	70.0	75.0	
120	60	72	96	70.0	71.6	
126	36	72	96	70.0	75.0	
126	42	72	96	70.0	71.4	
126	60	72	96	70.0	70.0	
132	24	72	96	70.0	73.8	
132	48	72	96	70.0	70.0	
138	48	72	96	70.0	70.0	
144	36	72	96	70.0	70.0	
144	42	72	96	66.9	66.9	
114	60	72	102	70.0	75.0	
120	60	72	102	70.0	74.3	
126	36	72	102	70.0	75.0	
126	42	72	102	70.0	74.0	
126	60	72	102	70.0	70.0	
132	24	72	102	70.0	75.0	
132	30	72	102	70.0	71.3	
132	48	72	102	70.0	70.0	
144	36	72	102	70.0	70.0	

DJ3 CAPACITIY (psf)						
DIMENSIONS (in)				ALLOW. DP		
FH	SLW	DOW	DOH	EXT (+)	INT (-)	
144	42	72	102	68.4	68.4	
120	60	72	108	70.0	75.0	
126	42	72	108	70.0	75.0	
126	48	72	108	70.0	72.4	
126	54	72	108	70.0	70.0	
126	60	72	108	70.0	70.0	
132	24	72	108	70.0	75.0	
132	30	72	108	70.0	74.3	
132	48	72	108	70.0	70.0	
144	42	72	108	70.0	70.0	
126	48	72	114	70.0	75.0	
126	54	72	114	70.0	71.1	
126	60	72	114	70.0	70.0	
132	24	72	114	70.0	75.0	
132	30	72	114	70.0	75.0	
132	36	72	114	70.0	72.3	
132	48	72	114	70.0	70.0	
144	42	72	114	70.0	70.0	
132	36	72	120	70.0	75.0	
132	42	72	120	70.0	70.6	
132	48	72	120	70.0	70.0	
144	42	72	120	70.0	70.0	

DJ3 CAPACITIY (psf)						
DIMENSIONS (in)				ALLOW. DP		
FH	SLW	DOW	DOH	EXT (+)	INT (-)	
108	60	84	84	70.0	75.0	
114	54	84	84	70.0	75.0	
114	60	84	84	70.0	74.5	
120	36	84	84	70.0	75.0	
120	42	84	84	70.0	72.5	
120	54	84	84	70.0	70.0	
126	24	84	84	70.0	73.0	
126	48	84	84	70.0	70.0	
132	36	84	84	70.0	70.0	
144	24	84	84	69.7	69.7	
144	30	84	84	65.7	65.7	
114	60	84	90	70.0	75.0	
120	42	84	90	70.0	75.0	
120	48	84	90	70.0	71.1	
120	54	84	90	70.0	70.0	

DJ3 CAPACITIY (psf)					
DIMENSIONS (in)				ALLOW. DP	
FH	SLW	DOW	DOH	EXT (+)	INT (-)
102	60	96	84	70.0	75.0
108	54	96	84	70.0	75.0
114	48	96	84	70.0	75.0
120	24	96	84	70.0	75.0
120	30	96	84	70.0	74.0
120	36	96	84	70.0	70.2
120	42	96	84	70.0	70.0
126	36	96	84	70.0	70.0
132	24	96	84	70.0	70.0
102	60	96	90	70.0	75.0
108	54	96	90	70.0	75.0
114	48	96	90	70.0	75.0
120	30	96	90	70.0	75.0
120	36	96	90	70.0	72.8
120	42	96	90	70.0	70.0
126	36	96	90	70.0	70.0
132	24	96	90	70.0	70.0
108	54	96	96	70.0	75.0
114	48	96	96	70.0	75.0
120	36	96	96	70.0	75.0
120	42	96	96	70.0	72.1
126	24	96	96	70.0	71.2
126	36	96	96	70.0	70.0
132	24	96	96	70.0	70.0
138	24	96	96	70.0	70.0
114	48	96	102	70.0	75.0
120	42	96	102	70.0	75.0
126	24	96	102	70.0	74.8
126	30	96	102	70.0	70.3
126	36	96	102	70.0	70.0
132	24	96	102	70.0	70.0
120	42	96	108	70.0	75.0
126	24	96	108	70.0	75.0
126	30	96	108	70.0	74.1
126	36	96	108	70.0	70.0
132	24	96	108	70.0	70.0
126	36	96	114	70.0	70.0
132	24	96	114	70.0	70.0
132	24	96	120	70.0	73.7

DOUBLE DOOR JAMB
CAPACITY TABLE

(WITH TRANSOM & SIDELITES)REFER TO ELEV. E5

TABLE A1 (FRAME JAMB ANCHOR) - $\frac{1}{4}$ "Ø						
ANCHOR TYPE	A	B	C	D	E	-
SPACING (in)	7	10	7	10	10	-
TABLE A1 (FRAME JAMB ANCHOR OPTION) - $\frac{5}{16}$ "Ø						
ANCHOR TYPE	AA	BB	CC	DD	EE	FF
SPACING (in)	10	13	13	19	14	17

FRAME JAMB ANCHOR

Table A2 Anchor at Double Door Jamb Top - $\frac{1}{4}$ "Ø						
Anchor Types	A	B	C	D	E	-
No. of Anchors	13	9	13	9	9	-
Table A2 Anchor at Double Door Jamb Top - $\frac{5}{16}$ "Ø OPTION						
Anchor Types	AA	BB	CC	DD	EE	FF
No. of Anchors	8	7	7	5	6	6

DOUBLE DOOR JAMB TOP ANCHOR

Table A3 Anchor at Double Door Jamb Bottom - $\frac{1}{4}$ "Ø		
Anchor Types	C	D
No. of Anchors	11	8
Table A3 Anchor at Double Door Jamb Bottom - $\frac{5}{16}$ "Ø OPTION		
Anchor Types	CC	DD
No. of Anchors	6	4

DOUBLE DOOR JAMB BOTTOM ANCHOR



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STORE FRONT SYSTEM
LMI (HVHZ)
(WET/DRY GLAZED)

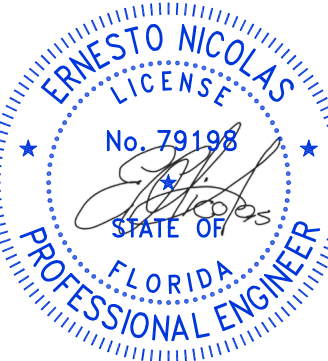

PRODUCT SERIES

REVN	DATE/REMARKS

ENGINEER:


En3 Engineering & Consultancy

950 SW 135TH Way, Sunrise
FL 33325 P. 786 474 3876
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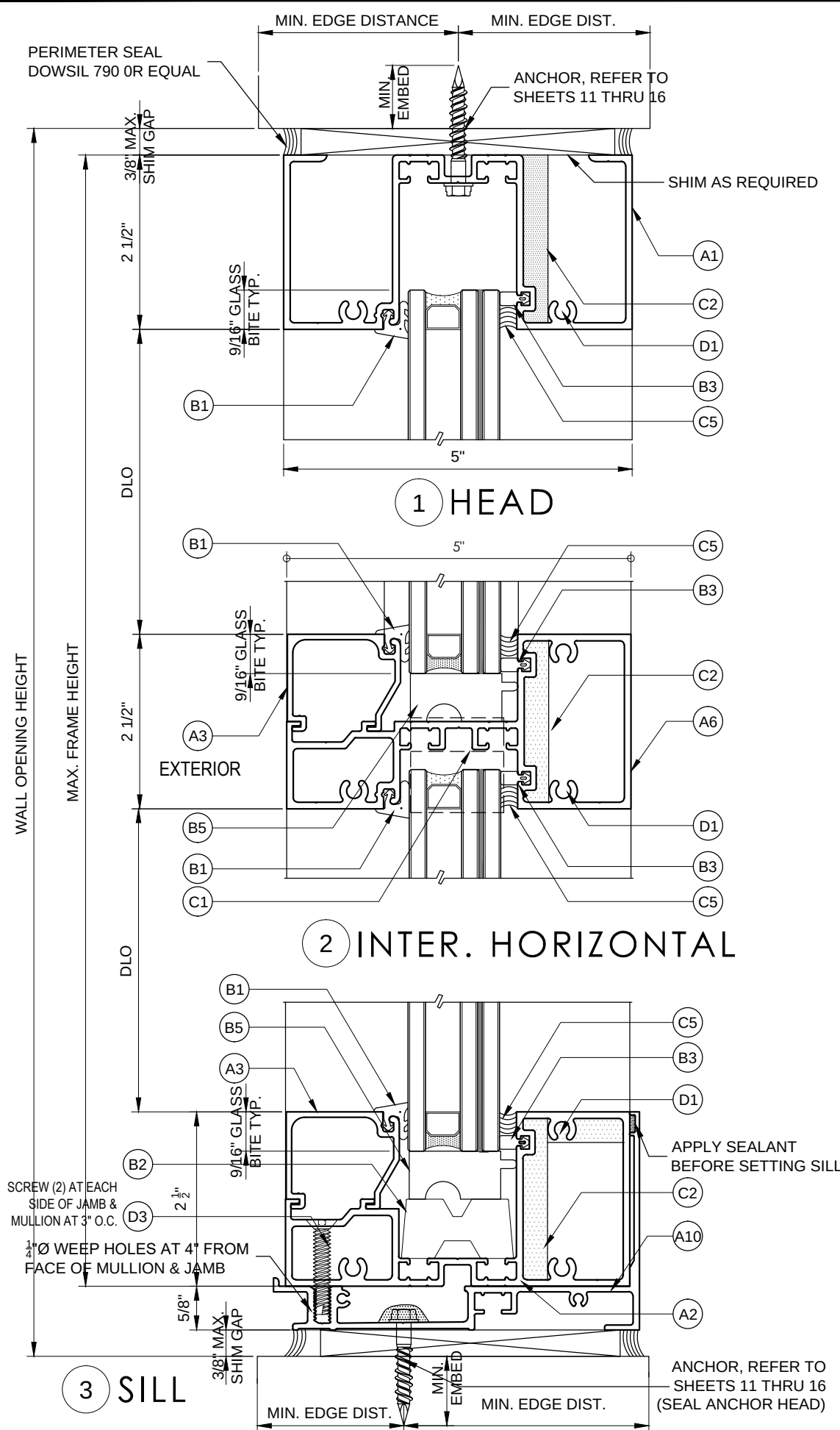
FLORIDA PRODUCT APPROVAL:

FL44610

DATE:	OCT. 20, 2023
DRAWN: Erick	CHK: ESN
DRWG. No: 23FL-104	SCALE: N.T.S.

SHEET NO.:

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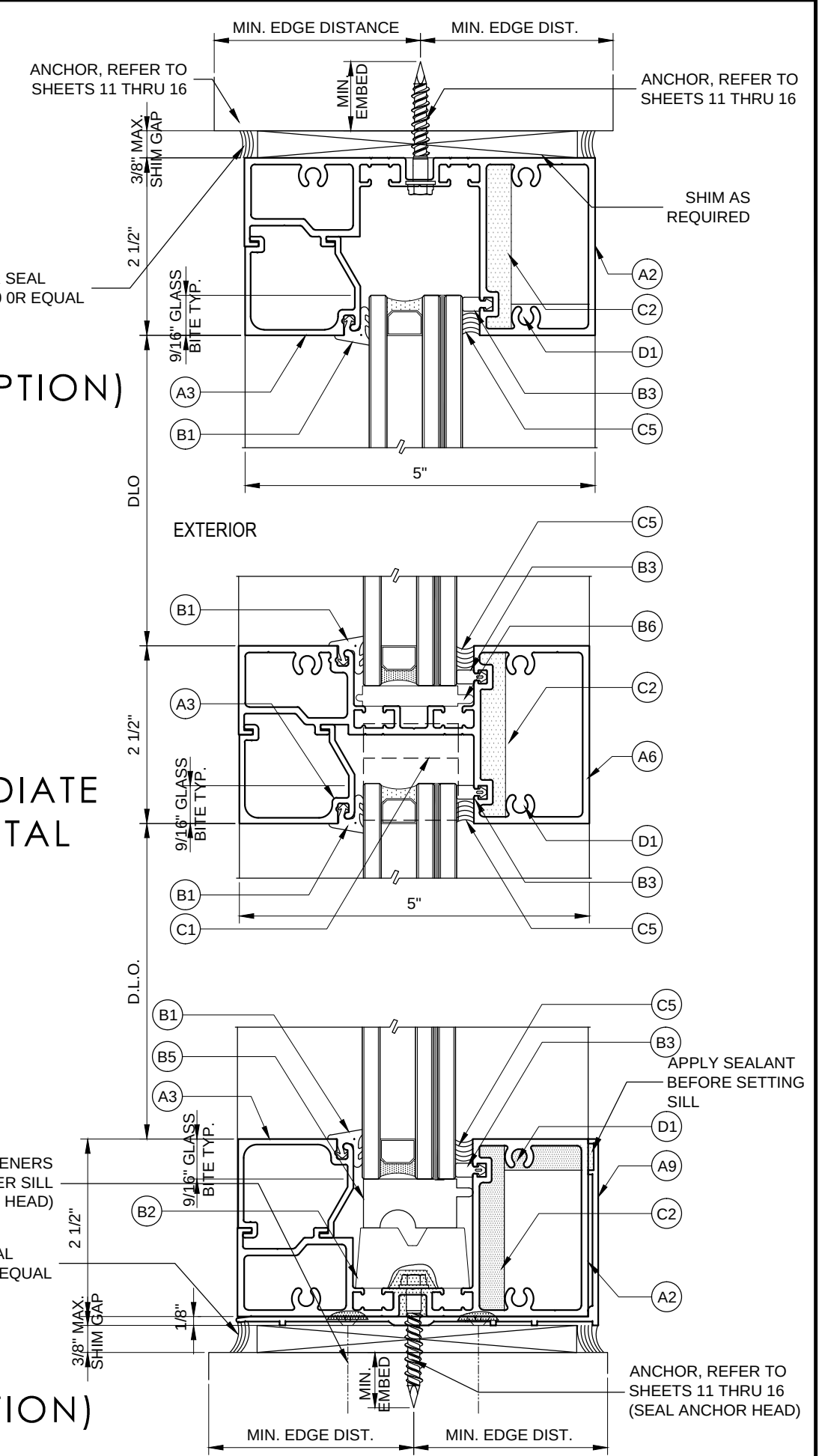


1A HEAD (OPTION)

2A INTERMEDIATE HORIZONTAL (OPTION)

NOTE:
DOWSIL 1199 CAN BE USED
AS AN OPTION TO JOINT
TAPE (GT-1)

3A SILL (OPTION)



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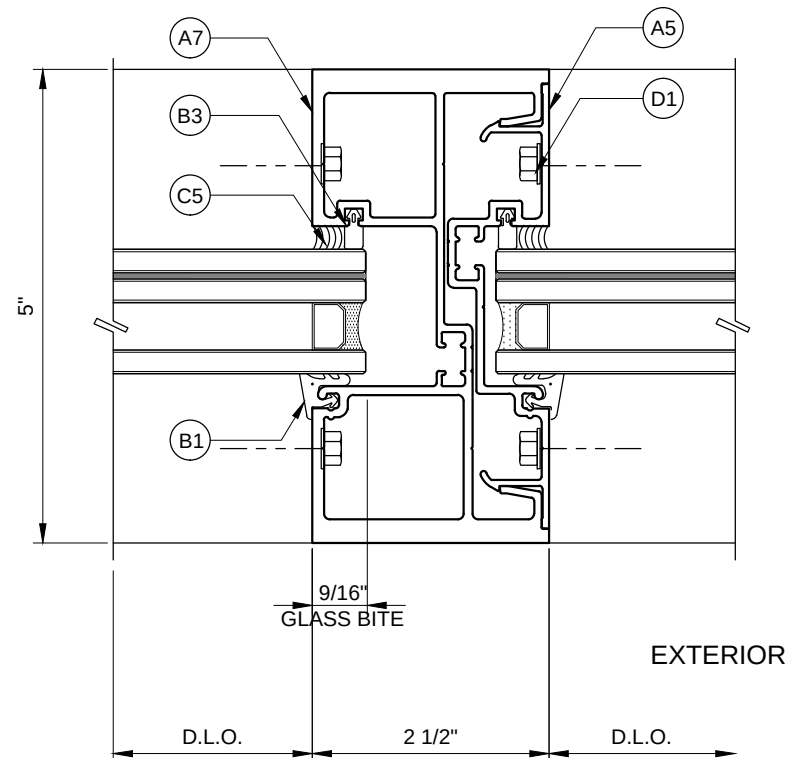
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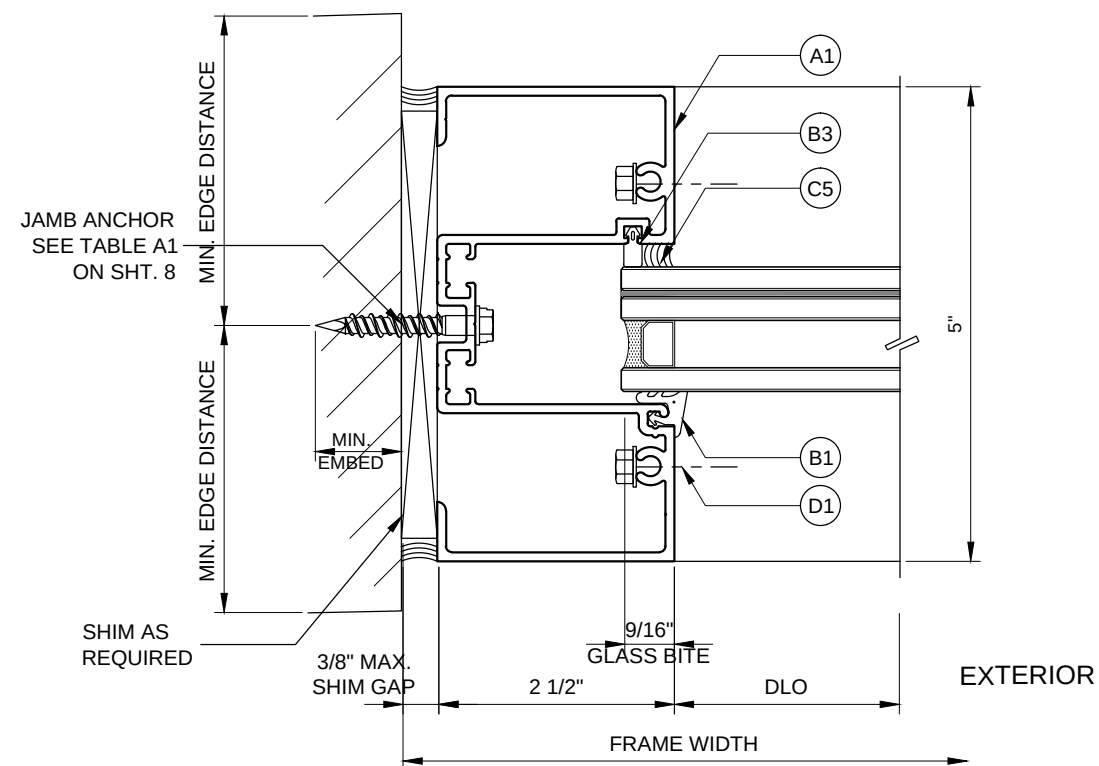
DATE: OCT. 20, 2023	
DRAWN: Erick	CHK: ESN
DRWG. No: 23FL-104	SCALE: N.T.S.

SHEET NO.:

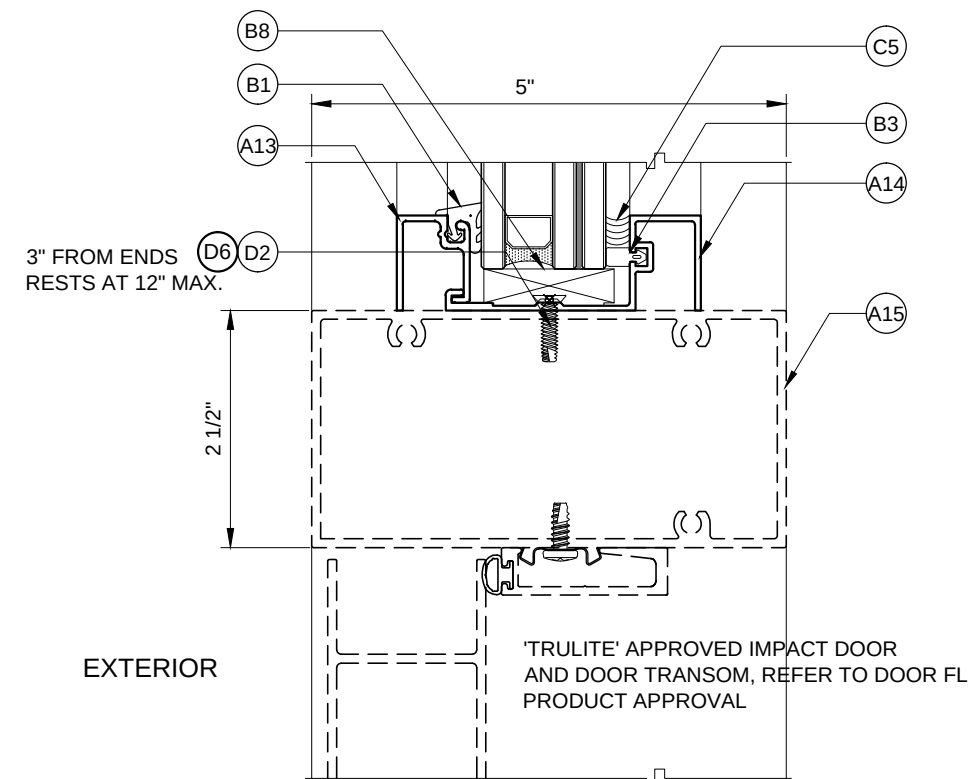
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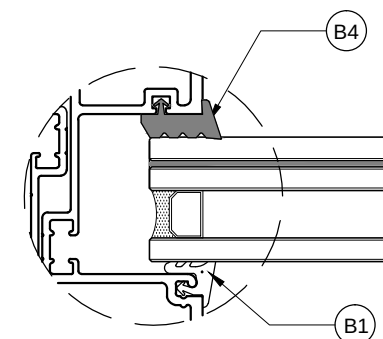
1 INTER. VERT. (MULLION)



2 JAMB (ANCHORED)
APPLICABLE TO MAX. PRESSURE, MAX. FRAME
HEIGHT OR MAX. MULLION SPACING



3 DOOR TRANSOM DETAIL



DRY GLAZE DETAIL (OPTION)

PRODUCT:

CG502 IMPACT
STORE FRONT SYSTEM
LMI (HVHZ)
(WET/DRY GLAZED)

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS

ENGINEER:



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



FLORIDA PRODUCT APPROVAL:

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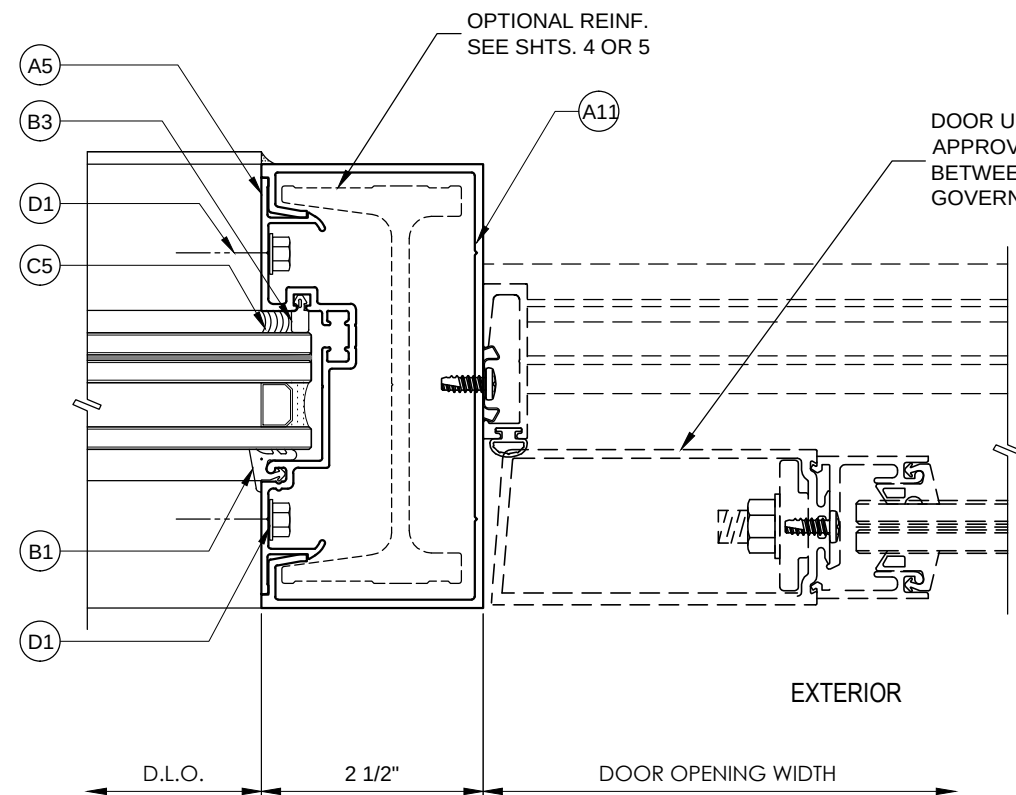
DATE: OCT. 20, 2023

DRAWN: Erick CHK: ESN

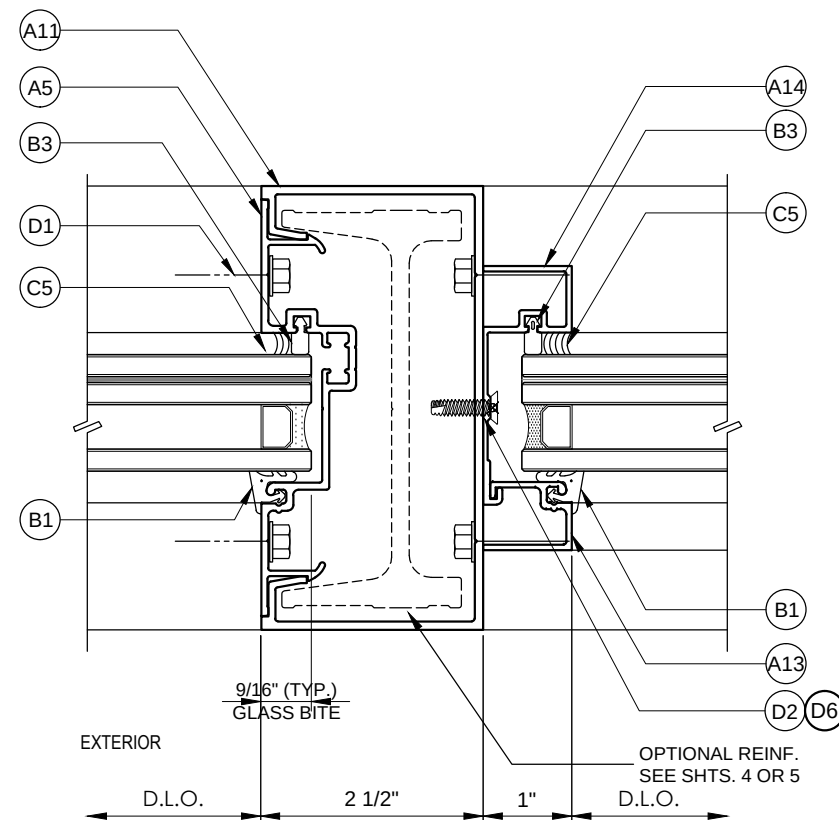
DRWG. No: 23FL-104 SCALE: N.T.S.

SHEET NO.:

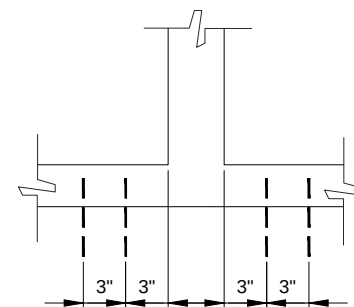
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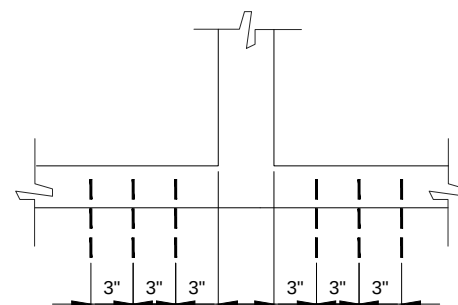
1 DOOR JAMB @ SIDELITE



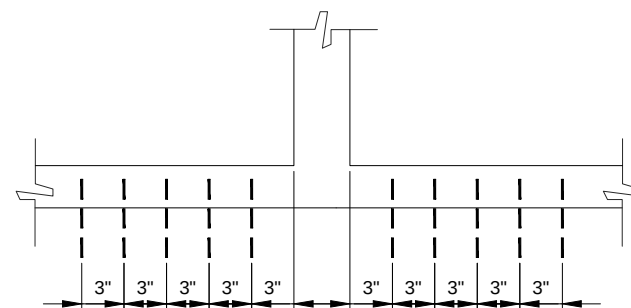
2 TRANSOM DOOR JAMB AT SIDELITE



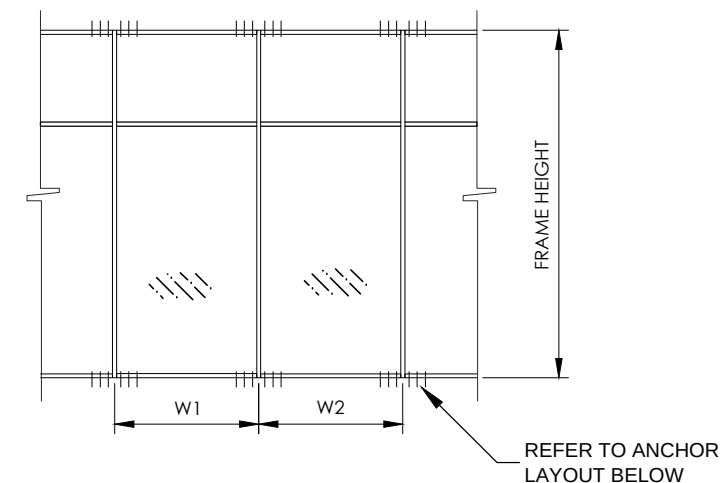
A2, B2, C2, D2, E2
AA2, BB2, CC2, DD2, EE2, FF2



A3, B3, C3, D3, E3
AA3, BB3, CC3, DD3, EE3, FF3



A5, B5, C5, D5, E5
AA5



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

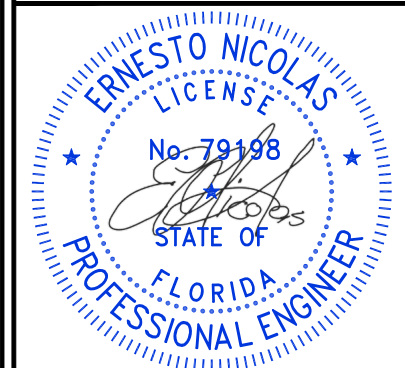
INTER. VERTICAL (MULLION) ANCHOR LAYOUT
REFER TO SHEET 16 FOR TYPES

PRODUCT:
**CG502 IMPACT
STORE FRONT SYSTEM**
LMI (HVHZ)
(WET/DRY GLAZED)

Resistor
PRODUCT SERIES

REV#	DATE/REMARKS

ENGINEER:
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950 SW 135TH Way, Sunrise
FL 33325 P. 786 474 3876
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DATE:	OCT. 20, 2023
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DRWG. No: 23FL-104	SCALE: N.T.S.

SHEET NO.:
11 OF 20

1/4" Ø ANCHOR LOAD CAPACITY (psf) - EXT.(+) / INT.(-)																						Based on max. 3/8" thk. shim		
DIMENSIONS (in)		ANCHOR TYPE 'A'					ANCHOR TYPE 'B'				ANCHOR TYPE 'C'					ANCHOR TYPE 'D'				ANCHOR TYPE 'E'				
Width	Height	A2	A3	A4	A5	A6	B2	B3	B4	B5	C2	C3	C4	C5	C6	D2	D3	D4	D5	E2	E3	E4	E5	
30	66	81.5	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	81.5	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
36		67.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	67.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
42		58.2	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	58.2	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
48		50.9	76.4	85.0	85.0	85.0	85.0	74.5	85.0	85.0	85.0	50.9	76.4	85.0	85.0	85.0	74.5	85.0	85.0	85.0	74.5	85.0	85.0	85.0
54		45.3	67.9	85.0	85.0	85.0	85.0	66.3	85.0	85.0	85.0	45.3	67.9	85.0	85.0	85.0	66.3	85.0	85.0	85.0	66.3	85.0	85.0	85.0
60		40.7	61.1	81.5	85.0	85.0	85.0	59.6	85.0	85.0	85.0	40.7	61.1	81.5	85.0	85.0	59.6	85.0	85.0	85.0	59.6	85.0	85.0	85.0
66	72	37.0	55.5	74.0	85.0	85.0	54.2	81.3	85.0	85.0	37.0	55.5	74.0	85.0	85.0	54.2	81.3	85.0	85.0	54.2	81.3	85.0	85.0	
30		74.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	74.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
36		62.2	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	62.2	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
42		53.3	80.0	85.0	85.0	85.0	85.0	78.1	85.0	85.0	85.0	53.3	80.0	85.0	85.0	85.0	78.1	85.0	85.0	85.0	78.1	85.0	85.0	85.0
48		46.7	70.0	85.0	85.0	85.0	85.0	68.3	85.0	85.0	85.0	46.7	70.0	85.0	85.0	85.0	68.3	85.0	85.0	85.0	68.3	85.0	85.0	85.0
54		41.5	62.2	83.0	85.0	85.0	85.0	60.7	85.0	85.0	85.0	41.5	62.2	83.0	85.0	85.0	60.7	85.0	85.0	85.0	60.7	85.0	85.0	85.0
60	78	37.3	56.0	74.7	85.0	85.0	54.7	82.0	85.0	85.0	37.3	56.0	74.7	85.0	85.0	54.7	82.0	85.0	85.0	54.7	82.0	85.0	85.0	
66		33.9	50.9	67.9	84.8	85.0	49.7	74.5	85.0	85.0	33.9	50.9	67.9	84.8	85.0	49.7	74.5	85.0	85.0	49.7	74.5	85.0	85.0	
30		68.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	68.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
36		57.4	85.0	85.0	85.0	85.0	84.1	85.0	85.0	85.0	57.4	85.0	85.0	85.0	85.0	84.1	85.0	85.0	85.0	84.1	85.0	85.0	85.0	
42		49.2	73.8	85.0	85.0	85.0	72.1	85.0	85.0	85.0	49.2	73.8	85.0	85.0	85.0	72.1	85.0	85.0	85.0	72.1	85.0	85.0	85.0	
48		43.1	64.6	85.0	85.0	85.0	63.1	85.0	85.0	85.0	43.1	64.6	85.0	85.0	85.0	63.1	85.0	85.0	85.0	63.1	85.0	85.0	85.0	
54	84	38.3	57.4	76.6	85.0	85.0	56.1	84.1	85.0	85.0	38.3	57.4	76.6	85.0	85.0	56.1	84.1	85.0	85.0	56.1	84.1	85.0	85.0	
60		34.5	51.7	68.9	85.0	85.0	50.5	75.7	85.0	85.0	34.5	51.7	68.9	85.0	85.0	50.5	75.7	85.0	85.0	50.5	75.7	85.0	85.0	
66		31.3	47.0	62.7	78.3	85.0	45.9	68.8	85.0	85.0	31.3	47.0	62.7	78.3	85.0	45.9	68.8	85.0	85.0	45.9	68.8	85.0	85.0	
30		64.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	64.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
36		53.3	80.0	85.0	85.0	85.0	78.1	85.0	85.0	85.0	53.3	80.0	85.0	85.0	85.0	78.1	85.0	85.0	85.0	78.1	85.0	85.0	85.0	
42		45.7	68.6	85.0	85.0	85.0	66.9	85.0	85.0	85.0	45.7	68.6	85.0	85.0	85.0	66.9	85.0	85.0	85.0	66.9	85.0	85.0	85.0	
48	90	40.0	60.0	80.0	85.0	85.0	58.6	85.0	85.0	85.0	40.0	60.0	80.0	85.0	85.0	58.6	85.0	85.0	85.0	58.6	85.0	85.0	85.0	
54		35.6	53.3	71.1	85.0	85.0	52.1	78.1	85.0	85.0	35.6	53.3	71.1	85.0	85.0	52.1	78.1	85.0	85.0	52.1	78.1	85.0	85.0	
60		32.0	48.0	64.0	80.0	85.0	46.9	70.3	85.0	85.0	32.0	48.0	64.0	80.0	85.0	46.9	70.3	85.0	85.0	46.9	70.3	85.0	85.0	
66		-	43.6	58.2	72.7	85.0	42.6	63.9	85.0	85.0	-	43.6	58.2	72.7	85.0	42.6	63.9	85.0	85.0	42.6	63.9	85.0	85.0	
30		59.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	59.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
36		49.8	74.7	85.0	85.0	85.0	72.9	85.0	85.0	85.0	49.8	74.7	85.0	85.0	85.0	72.9	85.0	85.0	85.0	72.9	85.0	85.0	85.0	
42	96	42.7	64.0	85.0	85.0	85.0	62.5	85.0	85.0	85.0	42.7	64.0	85.0	85.0	85.0	62.5	85.0	85.0	85.0	62.5	85.0	85.0	85.0	
48		37.3	56.0	74.7	85.0	85.0	54.7	82.0	85.0	85.0	37.3	56.0	74.7	85.0	85.0	54.7	82.0	85.0	85.0	54.7	82.0	85.0	85.0	
54		33.2	49.8	66.4	83.0	85.0	48.6	72.9	85.0	85.0	33.2	49.8	66.4	83.0	85.0	48.6	72.9	85.0	85.0	48.6	72.9	85.0	85.0	
60		-	44.8	59.7	74.7	85.0	43.7	65.6	85.0	85.0	-	44.8	59.7	74.7	85.0	43.7	65.6	85.0	85.0	43.7	65.6	85.0	85.0	
66		-	40.7	54.3	67.9	81.5	39.8	59.6	79.5	85.0	-	40.7	54.3	67.9	81.5	39.8	59.6	79.5	85.0	39.8	59.6	79.5	85.0	
30		102	56.0	84.0	85.0	85.0	85.0	82.0	85.0	85.0	85.0	56.0	84.0	85.0	85.0	85.0	82.0	85.0	85.0	85.0	82.0	85.0	85.0	85.0
36	46.7		70.0	85.0	85.0	85.0	68.3	85.0	85.0	85.0	46.7	70.0	85.0	85.0	85.0	68.3	85.0	85.0	85.0	68.3	85.0	85.0	85.0	
42	40.0		60.0	80.0	85.0	85.0	58.6	85.0	85.0	85.0	40.0	60.0	80.0	85.0	85.0	58.6	85.0	85.0	85.0	58.6	85.0	85.0	85.0	
48	35.0		52.5	70.0	85.0	85.0	51.3	76.9	85.0	85.0	35.0	52.5	70.0	85.0	85.0	51.3	76.9	85.0	85.0	51.3	76.9	85.0	85.0	
54	31.1		46.7	62.2	77.8	85.0	45.6	68.3	85.0	85.0	31.1	46.7	62.2	77.8	85.0	45.6	68.3	85.0	85.0	45.6	68.3	85.0	85.0	
60	-		42.0	56.0	70.0	84.0	41.0	61.5	82.0	85.0	-	42.0	56.0	70.0	84.0	41.0	61.5	82.0	85.0	41.0	61.5	82.0	85.0	
66	102	-	38.2	50.9	63.6	76.4	37.3	55.9	74.5	85.0	-	38.2	50.9	63.6	76.4	37.3	55.9	74.5	85.0	37.3	55.9	74.5	85.0	
30		52.7	79.1	85.0	85.0	85.0	77.2	85.0	85.0	85.0	52.7	79.1	85.0	85.0	85.0	77.2	85.0	85.0	85.0	77.2	85.0	85.0	85.0	
36		43.9	65.9	85.0	85.0	85.0	64.3	85.0	85.0	85.0	43.9	65.9	85.0	85.0	85.0	64.3	85.0	85.0	85.0	64.3	85.0	85.0	85.0	
42		37.6	56.5	75.3	85.0	85.0	55.1	82.7	85.0	85.0	37.6	56.5	75.3	85.0	85.0	55.1	82.7	85.0	85.0	55.1	82.7	85.0	85.0	
48		32.9	49.4	65.9	82.4	85.0	48.2	72.4	85.0	85.0	32.9	49.4	65.9	82.4	85.0	48.2	72.4	85.0	85.0	48.2	72.4	85.0	85.0	
54		-	43.9	58.6	73.2	85.0	42.9	64.3	85.0	85.0	-	43.9	58.6	73.2	85.0	42.9	64.3	85.0	85.0	42.9	64.3	85.0	85.0	
60	102	-	39.5	52.7	65.9	79.1	38.6	57.9	77.2	85.0	-	39.5	52.7	65.9	79.1	38.6	57.9	77.2	85.0	38.6	57.9	77.2	85.0	
66		-	35.9	47.9	59.9	71.9	35.1	52.6	70.2	85.0	-	35.9	47.9	59.9	71.9	35.1	52.6	70.2	85.0	35.1	52.6	70.2	85.0	

1/4"Ø ANCHOR CAPACITY TABLE



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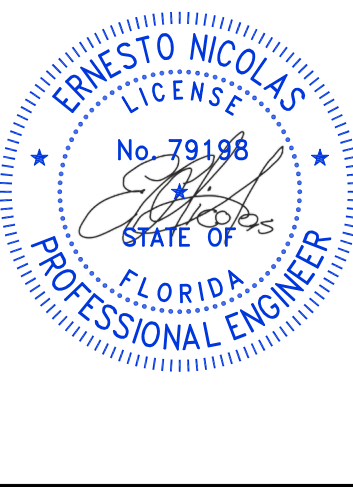
REVN	DATE/REMARKS

ENGINEER:



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FLORIDA PRODUCT APPROVAL:

FL44610

DATE: OCT. 20, 2023	
DRAWN: Erick	CHK: ESN
DRWG. No: 23FL-104	SCALE: N.T.S.

SHEET NO.:

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1/4" Ø ANCHOR LOAD CAPACITY (psf) - EXT.(+) / INT.(-)																							
DIMENSIONS (in)		TYPE 'A'					TYPE 'B'				TYPE 'C'					TYPE 'D'				TYPE 'E'			
Width	Height	A2	A3	A4	A5	A6	B2	B3	B4	B5	C2	C3	C4	C5	C6	D2	D3	D4	D5	E2	E3	E4	E5
30	108	49.8	74.7	85.0	85.0	85.0	72.9	85.0	85.0	85.0	49.8	74.7	85.0	85.0	85.0	72.9	85.0	85.0	85.0	72.9	85.0	85.0	85.0
36		41.5	62.2	83.0	85.0	85.0	60.7	85.0	85.0	85.0	41.5	62.2	83.0	85.0	85.0	60.7	85.0	85.0	85.0	60.7	85.0	85.0	85.0
42		35.6	53.3	71.1	85.0	85.0	52.1	78.1	85.0	85.0	35.6	53.3	71.1	85.0	85.0	52.1	78.1	85.0	85.0	52.1	78.1	85.0	85.0
48		31.1	46.7	62.2	77.8	85.0	45.6	68.3	85.0	85.0	31.1	46.7	62.2	77.8	85.0	45.6	68.3	85.0	85.0	45.6	68.3	85.0	85.0
54		-	41.5	55.3	69.1	83.0	40.5	60.7	81.0	85.0	-	41.5	55.3	69.1	83.0	40.5	60.7	81.0	85.0	40.5	60.7	81.0	85.0
60		-	37.3	49.8	62.2	74.7	36.4	54.7	72.9	85.0	-	37.3	49.8	62.2	74.7	36.4	54.7	72.9	85.0	36.4	54.7	72.9	85.0
66	114	-	33.9	45.3	56.6	67.9	33.1	49.7	66.3	82.8	-	33.9	45.3	56.6	67.9	33.1	49.7	66.3	82.8	33.1	49.7	66.3	82.8
30		47.2	70.7	85.0	85.0	85.0	69.1	85.0	85.0	85.0	47.2	70.7	85.0	85.0	85.0	69.1	85.0	85.0	85.0	69.1	85.0	85.0	85.0
36		39.3	58.9	78.6	85.0	85.0	57.5	85.0	85.0	85.0	39.3	58.9	78.6	85.0	85.0	57.5	85.0	85.0	85.0	57.5	85.0	85.0	85.0
42		33.7	50.5	67.4	84.2	85.0	49.3	74.0	85.0	85.0	33.7	50.5	67.4	84.2	85.0	49.3	74.0	85.0	85.0	49.3	74.0	85.0	85.0
48		-	44.2	58.9	73.7	85.0	43.2	64.7	85.0	85.0	-	44.2	58.9	73.7	85.0	43.2	64.7	85.0	85.0	43.2	64.7	85.0	85.0
54		-	39.3	52.4	65.5	78.6	38.4	57.5	76.7	85.0	-	39.3	52.4	65.5	78.6	38.4	57.5	76.7	85.0	38.4	57.5	76.7	85.0
60	120	-	35.4	47.2	58.9	70.7	34.5	51.8	69.1	85.0	-	35.4	47.2	58.9	70.7	34.5	51.8	69.1	85.0	34.5	51.8	69.1	85.0
66		-	32.2	42.9	53.6	64.3	31.4	47.1	62.8	78.5	-	32.2	42.9	53.6	64.3	31.4	47.1	62.8	78.5	31.4	47.1	62.8	78.5
30		44.8	67.2	85.0	85.0	85.0	65.6	85.0	85.0	85.0	44.8	67.2	85.0	85.0	85.0	65.6	85.0	85.0	85.0	65.6	85.0	85.0	85.0
36		37.3	56.0	74.7	85.0	85.0	54.7	82.0	85.0	85.0	37.3	56.0	74.7	85.0	85.0	54.7	82.0	85.0	85.0	54.7	82.0	85.0	85.0
42		32.0	48.0	64.0	80.0	85.0	46.9	70.3	85.0	85.0	32.0	48.0	64.0	80.0	85.0	46.9	70.3	85.0	85.0	46.9	70.3	85.0	85.0
48		-	42.0	56.0	70.0	84.0	41.0	61.5	82.0	85.0	-	42.0	56.0	70.0	84.0	41.0	61.5	82.0	85.0	41.0	61.5	82.0	85.0
54	126	-	37.3	49.8	62.2	74.7	36.4	54.7	72.9	85.0	-	37.3	49.8	62.2	74.7	36.4	54.7	72.9	85.0	36.4	54.7	72.9	85.0
60		-	33.6	44.8	56.0	67.2	32.8	49.2	65.6	82.0	-	33.6	44.8	56.0	67.2	32.8	49.2	65.6	82.0	32.8	49.2	65.6	82.0
66		-	30.5	40.7	50.9	61.1	-	44.7	59.6	74.5	-	30.5	40.7	50.9	61.1	-	44.7	59.6	74.5	-	44.7	59.6	74.5
30		42.7	64.0	85.0	85.0	85.0	62.5	85.0	85.0	85.0	42.7	64.0	85.0	85.0	85.0	62.5	85.0	85.0	85.0	62.5	85.0	85.0	85.0
36		35.6	53.3	71.1	85.0	85.0	52.1	78.1	85.0	85.0	35.6	53.3	71.1	85.0	85.0	52.1	78.1	85.0	85.0	52.1	78.1	85.0	85.0
42		30.5	45.7	61.0	76.2	85.0	44.6	66.9	85.0	85.0	30.5	45.7	61.0	76.2	85.0	44.6	66.9	85.0	85.0	44.6	66.9	85.0	85.0
48	132	-	40.0	53.3	66.7	80.0	39.0	58.6	78.1	85.0	-	40.0	53.3	66.7	80.0	39.0	58.6	78.1	85.0	39.0	58.6	78.1	85.0
54		-	35.6	47.4	59.3	71.1	34.7	52.1	69.4	85.0	-	35.6	47.4	59.3	71.1	34.7	52.1	69.4	85.0	34.7	52.1	69.4	85.0
60		-	32.0	42.7	53.3	64.0	31.2	46.9	62.5	78.1	-	32.0	42.7	53.3	64.0	31.2	46.9	62.5	78.1	31.2	46.9	62.5	78.1
66		-	-	38.8	48.5	58.2	-	42.6	56.8	71.0	-	-	38.8	48.5	58.2	-	42.6	56.8	71.0	-	42.6	56.8	71.0
30		40.7	61.1	81.5	85.0	85.0	59.6	85.0	85.0	85.0	40.7	61.1	81.5	85.0	85.0	59.6	85.0	85.0	85.0	59.6	85.0	85.0	85.0
36		33.9	50.9	67.9	84.8	85.0	49.7	74.5	85.0	85.0	33.9	50.9	67.9	84.8	85.0	49.7	74.5	85.0	85.0	49.7	74.5	85.0	85.0
42	138	-	43.6	58.2	72.7	85.0	42.6	63.9	85.0	85.0	-	43.6	58.2	72.7	85.0	42.6	63.9	85.0	85.0	42.6	63.9	85.0	85.0
48		-	38.2	50.9	63.6	76.4	37.3	55.9	74.5	85.0	-	38.2	50.9	63.6	76.4	37.3	55.9	74.5	85.0	37.3	55.9	74.5	85.0
54		-	33.9	45.3	56.6	67.9	33.1	49.7	66.3	82.8	-	33.9	45.3	56.6	67.9	33.1	49.7	66.3	82.8	33.1	49.7	66.3	82.8
60		-	30.5	40.7	50.9	61.1	-	44.7	59.6	74.5	-	30.5	40.7	50.9	61.1	-	44.7	59.6	74.5	-	44.7	59.6	74.5
66		-	-	37.0	46.3	55.5	-	40.7	54.2	67.8	-	-	37.0	46.3	55.5	-	40.7	54.2	67.8	-	40.7	54.2	67.8
30		39.0	58.4	77.9	85.0	85.0	57.0	85.0	85.0	85.0	39.0	58.4	77.9	85.0	85.0	57.0	85.0	85.0	85.0	57.0	85.0	85.0	85.0
36	144	32.5	48.7	64.9	81.2	85.0	47.5	71.3	85.0	85.0	32.5	48.7	64.9	81.2	85.0	47.5	71.3	85.0	85.0	47.5	71.3	85.0	85.0
42		-	41.7	55.7	69.6	83.5	40.7	61.1	81.5	85.0	-	41.7	55.7	69.6	83.5	40.7	61.1	81.5	85.0	40.7	61.1	81.5	85.0
48		-	36.5	48.7	60.9	73.0	35.7	53.5	71.3	85.0	-	36.5	48.7	60.9	73.0	35.7	53.5	71.3	85.0	35.7	53.5	71.3	85.0
54		-	32.5	43.3	54.1	64.9	31.7	47.5	63.4	79.2	-	32.5	43.3	54.1	64.9	31.7	47.5	63.4	79.2	31.7	47.5	63.4	79.2
60		-	-	39.0	48.7	58.4	-	42.8	57.0	71.3	-	-	39.0	48.7	58.4	-	42.8	57.0	71.3	-	42.8	57.0	71.3
66		-	-	35.4	44.3	53.1	-	38.9	51.9	64.8	-	-	35.4	44.3	53.1	-	38.9	51.9	64.8	-	38.9	51.9	64.8
30	144	37.3	56.0	74.7	85.0	85.0	54.7	82.0	85.0	85.0	37.3	56.0	74.7	85.0	85.0	54.7	82.0	85.0	85.0	54.7	82.0	85.0	85.0
36		31.1	46.7	62.2	77.8	85.0	45.6	68.3	85.0	85.0	31.1	46.7	62.2	77.8	85.0	45.6	68.3	85.0	85.0	45.6	68.3	85.0	85.0
42		-	40.0	53.3	66.7	80.0	39.0	58.6	78.1	85.0	-	40.0	53.3	66.7	80.0	39.0	58.6	78.1	85.0	39.0	58.6	78.1	85.0
48		-	35.0	46.7	58.3	70.0	34.2	51.3	68.3	85.0	-	35.0	46.7	58.3	70.0	34.2	51.3	68.3	85.0	34.2	51.3	68.3	85.0
54		-	31.1	41.5	51.9	62.2	30.4	45.6	60.7	75.9	-	31.1	41.5	51.9	62.2	30.4	45.6	60.7	75.9	30.4	45.6	60.7	75.9
60		-	-	37.3	46.7	56.0	-	41.0	54.7	68.3	-	-	37.3	46.7	56.0	-	41.0	54.7	68.3	-	41.0	54.7	68.3

1/4" Ø ANCHOR CAPACITY TABLE



http://www.trulite.com
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PEACHTREE CITY, GA 30269
p. 800-432-8132

PRODUCT:

CG502 IMPACT
STORE FRONT SYSTEM
LMI (HVHZ)
(WET/DRY GLAZED)



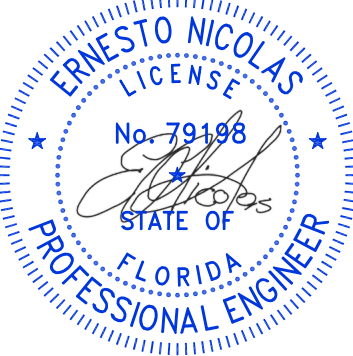
REVN	DATE/REMARKS

ENGINEER:



En3 Engineering & Consultancy

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



FLORIDA PRODUCT APPROVAL:

FL44610

DATE:	OCT. 20, 2023
DRAWN: Erick	CHK: ESN
DRWG. No: 23FL-104	SCALE: N.T.S.

SHEET NO.:

13 OF 20

5/16 Ø ANCHOR LOAD CAPACITY (PSF) - EXT.(+) / INT.(-)																	Based on max. 3/8" thk. shim		
DIMENSIONS (in)		TYPE 'AA'				TYPE 'BB'			TYPE 'CC'			TYPE 'DD'		TYPE 'EE'			TYPE 'FF'		
Width	Height	AA2	AA3	AA4	AA5	BB2	BB3	BB4	CC2	CC3	CC4	DD2	DD3	EE2	EE3	EE4	FF2	FF3	
30	66	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
36		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
42		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
48		77.1	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
54		68.5	85.0	85.0	85.0	82.7	85.0	85.0	83.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
60		61.7	85.0	85.0	85.0	74.5	85.0	85.0	75.3	85.0	85.0	85.0	85.0	85.0	84.4	85.0	85.0	85.0	85.0
66		56.1	84.1	85.0	85.0	67.7	85.0	85.0	68.5	85.0	85.0	85.0	85.0	85.0	76.7	85.0	85.0	85.0	85.0
30	72	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
36		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
42		80.8	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
48		70.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
54		62.8	85.0	85.0	85.0	75.9	85.0	85.0	76.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
60		56.5	84.8	85.0	85.0	68.3	85.0	85.0	69.1	85.0	85.0	85.0	85.0	85.0	77.3	85.0	85.0	85.0	85.0
66		51.4	77.1	85.0	85.0	62.1	85.0	85.0	62.8	85.0	85.0	85.0	85.0	85.0	70.3	85.0	85.0	81.2	85.0
30	78	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
36		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
42		74.5	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
48		65.2	85.0	85.0	85.0	78.8	85.0	85.0	79.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
54		58.0	85.0	85.0	85.0	70.0	85.0	85.0	70.8	85.0	85.0	85.0	85.0	85.0	79.3	85.0	85.0	85.0	85.0
60		52.2	78.3	85.0	85.0	63.0	85.0	85.0	63.8	85.0	85.0	85.0	85.0	85.0	71.4	85.0	85.0	82.5	85.0
66		47.4	71.2	85.0	85.0	57.3	85.0	85.0	58.0	85.0	85.0	84.8	85.0	85.0	64.9	85.0	85.0	75.0	85.0
30	84	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
36		80.8	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
42		69.2	85.0	85.0	85.0	83.6	85.0	85.0	84.6	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
48		60.6	85.0	85.0	85.0	73.1	85.0	85.0	74.0	85.0	85.0	85.0	85.0	82.9	85.0	85.0	85.0	85.0	
54		53.8	80.8	85.0	85.0	65.0	85.0	85.0	65.8	85.0	85.0	85.0	85.0	73.7	85.0	85.0	85.0	85.0	
60		48.5	72.7	85.0	85.0	58.5	85.0	85.0	59.2	85.0	85.0	85.0	85.0	66.3	85.0	85.0	76.6	85.0	
66		44.1	66.1	85.0	85.0	53.2	79.8	85.0	53.8	80.7	85.0	78.8	85.0	60.3	85.0	85.0	69.6	85.0	
30	90	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
36		75.4	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
42		64.6	85.0	85.0	85.0	78.0	85.0	85.0	78.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
48		56.5	84.8	85.0	85.0	68.3	85.0	85.0	69.1	85.0	85.0	85.0	85.0	77.3	85.0	85.0	85.0	85.0	
54		50.3	75.4	85.0	85.0	60.7	85.0	85.0	61.4	85.0	85.0	85.0	85.0	68.7	85.0	85.0	79.4	85.0	
60		45.2	67.8	85.0	85.0	54.6	81.9	85.0	55.3	82.9	85.0	80.9	85.0	61.9	85.0	85.0	71.5	85.0	
66		41.1	61.7	82.2	85.0	49.6	74.5	85.0	50.2	75.3	85.0	73.5	85.0	56.2	84.4	85.0	65.0	85.0	
30	96	84.8	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
36		70.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
42		60.6	85.0	85.0	85.0	73.1	85.0	85.0	74.0	85.0	85.0	85.0	85.0	82.9	85.0	85.0	85.0	85.0	
48		53.0	79.5	85.0	85.0	64.0	85.0	85.0	64.8	85.0	85.0	85.0	85.0	72.5	85.0	85.0	83.8	85.0	
54		47.1	70.7	85.0	85.0	56.9	85.0	85.0	57.6	85.0	85.0	84.2	85.0	64.4	85.0	85.0	74.4	85.0	
60		42.4	63.6	84.8	85.0	51.2	76.8	85.0	51.8	77.7	85.0	75.8	85.0	58.0	85.0	85.0	67.0	85.0	
66		38.5	57.8	77.1	85.0	46.5	69.8	85.0	47.1	70.6	85.0	68.9	85.0	52.7	79.1	85.0	60.9	85.0	
30	102	79.8	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
36		66.5	85.0	85.0	85.0	80.3	85.0	85.0	81.3	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
42		57.0	85.0	85.0	85.0	68.8	85.0	85.0	69.6	85.0	85.0	85.0	85.0	78.0	85.0	85.0	85.0	85.0	
48		49.9	74.8	85.0	85.0	60.2	85.0	85.0	60.9	85.0	85.0	85.0	85.0	68.2	85.0	85.0	78.8	85.0	
54		44.3	66.5	85.0	85.0	53.5	80.3	85.0	54.2	81.3	85.0	79.3	85.0	60.7	85.0	85.0	70.1	85.0	
60		39.9	59.9	79.8	85.0	48.2	72.3	85.0	48.8	73.1	85.0	71.3	85.0	54.6	81.9	85.0	63.1	85.0	
66		36.3	54.4	72.6	85.0	43.8	65.7	85.0	44.3	66.5	85.0	64.9	85.0	49.6	74.4	85.0	57.3	85.0	

5/16"Ø ANCHOR CAPACITY TABLE (OPTION)



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PRODUCT:

CG502 IMPACT
STORE FRONT SYSTEM
LMI (HVHZ)
(WET/DRY GLAZED)



PRODUCT SERIES

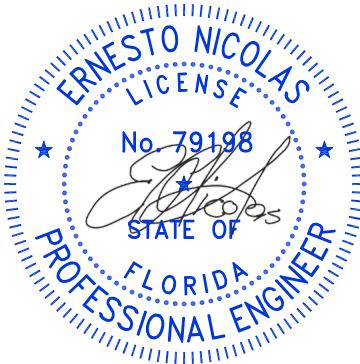
REVN	DATE/REMARKS

ENGINEER:



En3 Engineering & Consultancy

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



FLORIDA PRODUCT APPROVAL:

FL44610

DATE:	OCT. 20, 2023
DRAWN: Erick	CHK: ESN
DRWG. No: 23FL-104	SCALE: N.T.S.

SHEET NO.:
14 OF 20

5/16 Ø ANCHOR LOAD CAPACITY (PSF) - EXT.(+) / INT.(-)																	Based on max. 3/8" thk. shim		
DIMENSIONS (in)		TYPE 'AA'				TYPE 'BB'			TYPE 'CC'			TYPE 'DD'		TYPE 'EE'			TYPE 'FF'		
Width	Height	AA2	AA3	AA4	AA5	BB2	BB3	BB4	CC2	CC3	CC4	DD2	DD3	EE2	EE3	EE4	FF2	FF3	
30	108	75.4	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
36		62.8	85.0	85.0	85.0	75.9	85.0	85.0	76.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
42		53.8	80.8	85.0	85.0	65.0	85.0	85.0	65.8	85.0	85.0	85.0	85.0	73.7	85.0	85.0	85.0	85.0	
48		47.1	70.7	85.0	85.0	56.9	85.0	85.0	57.6	85.0	85.0	84.2	85.0	64.4	85.0	85.0	74.4	85.0	
54		41.9	62.8	83.8	85.0	50.6	75.9	85.0	51.2	76.7	85.0	74.9	85.0	57.3	85.0	85.0	66.2	85.0	
60		37.7	56.5	75.4	85.0	45.5	68.3	85.0	46.0	69.1	85.0	67.4	85.0	51.6	77.3	85.0	59.6	85.0	
66	114	34.3	51.4	68.5	85.0	41.4	62.1	82.7	41.9	62.8	83.7	61.3	85.0	46.9	70.3	85.0	54.1	81.2	
30		71.4	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
36		59.5	85.0	85.0	85.0	71.9	85.0	85.0	72.7	85.0	85.0	85.0	85.0	81.4	85.0	85.0	85.0	85.0	
42		51.0	76.5	85.0	85.0	61.6	85.0	85.0	62.3	85.0	85.0	85.0	85.0	69.8	85.0	85.0	80.6	85.0	
48		44.6	66.9	85.0	85.0	53.9	80.8	85.0	54.5	81.8	85.0	79.8	85.0	61.1	85.0	85.0	70.5	85.0	
54		39.7	59.5	79.3	85.0	47.9	71.9	85.0	48.5	72.7	85.0	70.9	85.0	54.3	81.4	85.0	62.7	85.0	
60	120	35.7	53.6	71.4	85.0	43.1	64.7	85.0	43.6	65.4	85.0	63.8	85.0	48.8	73.3	85.0	56.4	84.6	
66		32.5	48.7	64.9	81.1	39.2	58.8	78.4	39.7	59.5	79.3	58.0	85.0	44.4	66.6	85.0	51.3	76.9	
30		67.8	85.0	85.0	85.0	81.9	85.0	85.0	82.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
36		56.5	84.8	85.0	85.0	68.3	85.0	85.0	69.1	85.0	85.0	85.0	85.0	77.3	85.0	85.0	85.0	85.0	
42		48.5	72.7	85.0	85.0	58.5	85.0	85.0	59.2	85.0	85.0	85.0	85.0	66.3	85.0	85.0	76.6	85.0	
48		42.4	63.6	84.8	85.0	51.2	76.8	85.0	51.8	77.7	85.0	75.8	85.0	58.0	85.0	85.0	67.0	85.0	
54	126	37.7	56.5	75.4	85.0	45.5	68.3	85.0	46.0	69.1	85.0	67.4	85.0	51.6	77.3	85.0	59.6	85.0	
60		33.9	50.9	67.8	84.8	41.0	61.4	81.9	41.4	62.2	82.9	60.6	85.0	46.4	69.6	85.0	53.6	80.4	
66		30.8	46.3	61.7	77.1	37.2	55.9	74.5	37.7	56.5	75.3	55.1	82.7	42.2	63.3	84.4	48.7	73.1	
30		64.6	85.0	85.0	85.0	78.0	85.0	85.0	78.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
36		53.8	80.8	85.0	85.0	65.0	85.0	85.0	65.8	85.0	85.0	85.0	85.0	73.7	85.0	85.0	85.0	85.0	
42		46.1	69.2	85.0	85.0	55.7	83.6	85.0	56.4	84.6	85.0	82.5	85.0	63.1	85.0	85.0	72.9	85.0	
48	132	40.4	60.6	80.8	85.0	48.8	73.1	85.0	49.3	74.0	85.0	72.2	85.0	55.2	82.9	85.0	63.8	85.0	
54		35.9	53.8	71.8	85.0	43.3	65.0	85.0	43.9	65.8	85.0	64.2	85.0	49.1	73.7	85.0	56.7	85.0	
60		32.3	48.5	64.6	80.8	39.0	58.5	78.0	39.5	59.2	78.9	57.8	85.0	44.2	66.3	85.0	51.0	76.6	
66		-	44.1	58.7	73.4	35.5	53.2	70.9	35.9	53.8	71.8	52.5	78.8	40.2	60.3	80.3	46.4	69.6	
30		61.7	85.0	85.0	85.0	74.5	85.0	85.0	75.3	85.0	85.0	85.0	85.0	84.4	85.0	85.0	85.0	85.0	
36		51.4	77.1	85.0	85.0	62.1	85.0	85.0	62.8	85.0	85.0	85.0	85.0	70.3	85.0	85.0	81.2	85.0	
42	138	44.1	66.1	85.0	85.0	53.2	79.8	85.0	53.8	80.7	85.0	78.8	85.0	60.3	85.0	85.0	69.6	85.0	
48		38.5	57.8	77.1	85.0	46.5	69.8	85.0	47.1	70.6	85.0	68.9	85.0	52.7	79.1	85.0	60.9	85.0	
54		34.3	51.4	68.5	85.0	41.4	62.1	82.7	41.9	62.8	83.7	61.3	85.0	46.9	70.3	85.0	54.1	81.2	
60		30.8	46.3	61.7	77.1	37.2	55.9	74.5	37.7	56.5	75.3	55.1	82.7	42.2	63.3	84.4	48.7	73.1	
66		-	42.0	56.1	70.1	33.9	50.8	67.7	34.2	51.4	68.5	50.1	75.2	38.3	57.5	76.7	44.3	66.4	
30		59.0	85.0	85.0	85.0	71.2	85.0	85.0	72.1	85.0	85.0	85.0	85.0	80.7	85.0	85.0	85.0	85.0	
36	144	49.2	73.7	85.0	85.0	59.4	85.0	85.0	60.1	85.0	85.0	85.0	85.0	67.2	85.0	85.0	77.7	85.0	
42		42.1	63.2	84.3	85.0	50.9	76.3	85.0	51.5	77.2	85.0	75.3	85.0	57.6	85.0	85.0	66.6	85.0	
48		36.9	55.3	73.7	85.0	44.5	66.8	85.0	45.0	67.6	85.0	65.9	85.0	50.4	75.7	85.0	58.3	85.0	
54		32.8	49.2	65.5	81.9	39.6	59.4	79.1	40.0	60.1	80.1	58.6	85.0	44.8	67.2	85.0	51.8	77.7	
60		-	44.2	59.0	73.7	35.6	53.4	71.2	36.0	54.1	72.1	52.7	79.1	40.3	60.5	80.7	46.6	69.9	
66		-	40.2	53.6	67.0	32.4	48.6	64.8	32.8	49.1	65.5	47.9	71.9	36.7	55.0	73.4	42.4	63.6	
30	144	56.5	84.8	85.0	85.0	68.3	85.0	85.0	69.1	85.0	85.0	85.0	85.0	77.3	85.0	85.0	85.0	85.0	
36		47.1	70.7	85.0	85.0	56.9	85.0	85.0	57.6	85.0	85.0	84.2	85.0	64.4	85.0	85.0	74.4	85.0	
42		40.4	60.6	80.8	85.0	48.8	73.1	85.0	49.3	74.0	85.0	72.2	85.0	55.2	82.9	85.0	63.8	85.0	
48		35.3	53.0	70.7	85.0	42.7	64.0	85.0	43.2	64.8	85.0	63.2	85.0	48.3	72.5	85.0	55.8	83.8	
54		31.4	47.1	62.8	78.5	37.9	56.9	75.9	38.4	57.6	76.7	56.1	84.2	43.0	64.4	85.0	49.6	74.4	
60		-	42.4	56.5	70.7	34.1	51.2	68.3	34.5	51.8	69.1	50.5	75.8	38.7	58.0	77.3	44.7	67.0	

5/16"Ø ANCHOR CAPACITY TABLE (OPTION)



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PRODUCT:

CG502 IMPACT
STORE FRONT SYSTEM
LMI (HVHZ)
(WET/DRY GLAZED)



PRODUCT SERIES

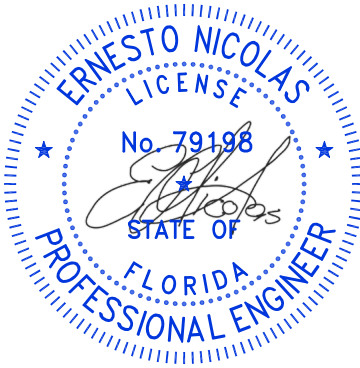
REV#	DATE/REMARKS

ENGINEER:



En3 Engineering & Consultancy

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



FLORIDA PRODUCT APPROVAL:

FL44610

DATE: OCT. 20, 2023

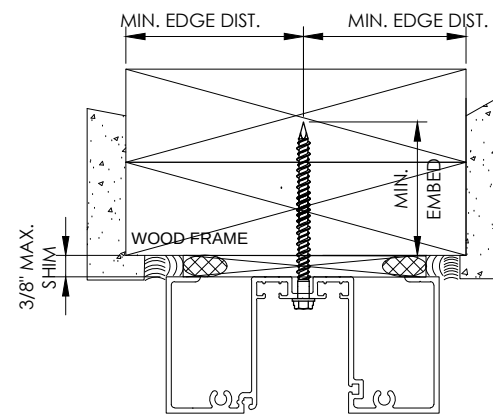
DRAWN: Erick

CHK: ESN

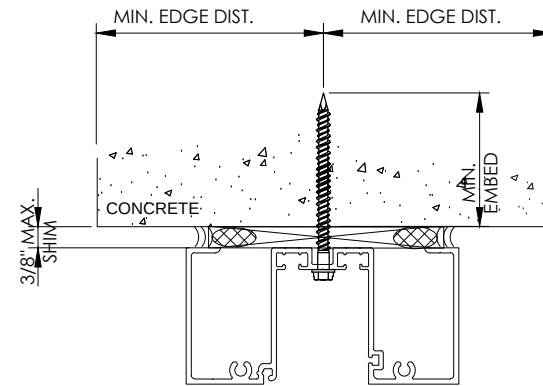
DRWG. No: 23FL-104

SCALE: N.T.S.

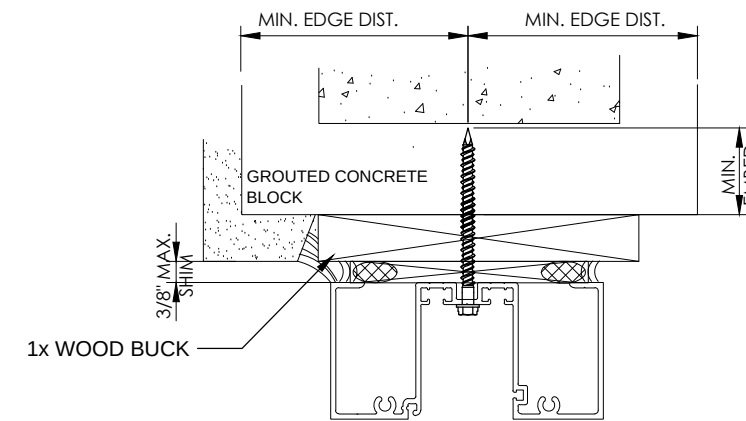
SHEET NO.:
15 OF 20



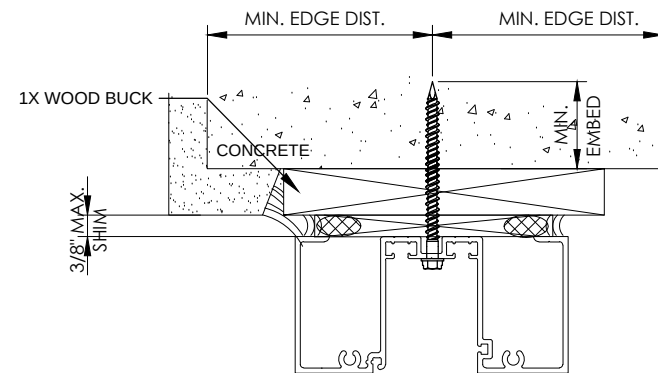
TYPES A, AA, B or BB



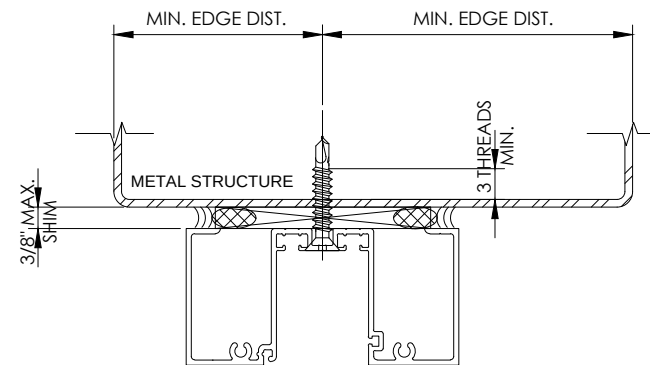
TYPES C, CC, D or DD



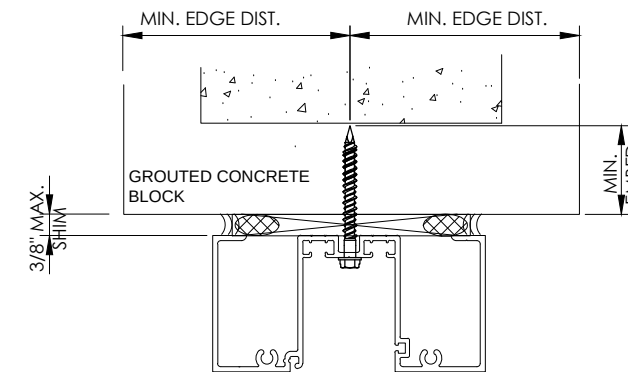
TYPES E, EE



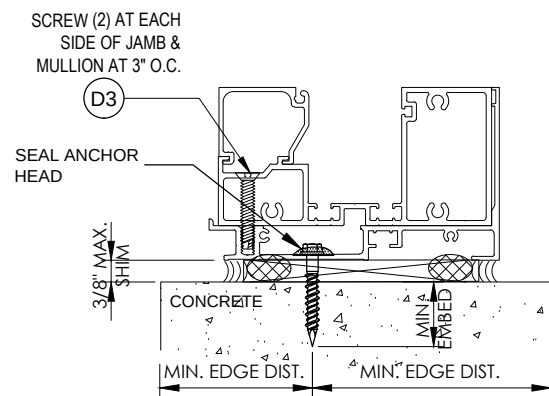
TYPES C, CC, D, or DD



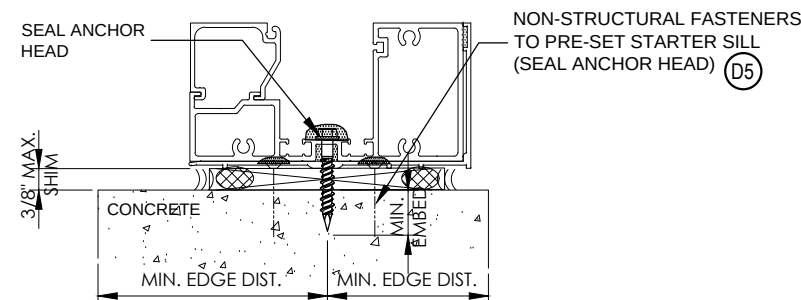
TYPE FF



TYPES E, EE



TYPES C, CC, D or DD



TYPES C, CC, D or DD

ANCHOR TYPES

($\frac{1}{4}$ " $\varnothing$)	($\frac{5}{16}$ " $\varnothing$)	SUBSTRATE	MATERIAL	MIN. EMBED (IN.)	MIN. EDGE DIST. (IN.)
A	AA	WOOD	TAPCON (Fy = 100ksi & Fu = 125ksi min.)	1.50	1.250
B	BB	WOOD	ULTRACON (Fy = 148ksi & Fu = 164ksi min.)	1.50	1.250
C	CC	CONCRETE	TAPCON (Fy = 100ksi & Fu = 125ksi min.)	1.75	2.50
D	DD	CONCRETE	ULTRACON (Fy = 148ksi & Fu = 164ksi min.)	1.875	2.50
E	EE	CONC. MASONRY	ULTRACON (Fy = 148ksi & Fu = 164ksi min.)	1.25	2.50
-	FF	METAL	Gr. 5 Metal Screw	Min. 3 Threads pass substrate	1.00

NOTE:

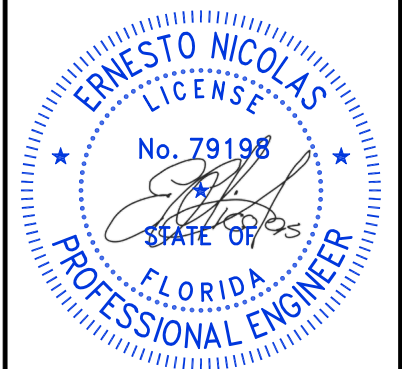
- MAXIMUM SHIM GAP = 3/8"
- MIN. SPECIFIC GRAVITY OF WOOD = 0.55
- MIN. CONCRETE COMPRESSIVE STRENGTH = 3000psi (NORMAL WEIGHT & UNCRACKED)
- MIN. COMPRESSIVE STRENGTH OF GROUTED CONCRETE MASONRY = 2000PSI (MEDIUM WEIGHT & CONFORM TO ASTM C90)
- METAL SUBSTRATE SHALL BE STEEL (FY=36KSI MIN. & 12GA. THICK) OR ALUMINUM (6063-T5 MIN. & 0.10" MIN. THICK)

PRODUCT:

CG502 IMPACT
STORE FRONT SYSTEM
LMI (HVHZ)
(WET/DRY GLAZED)

REVN	DATE/REMARKS

ENGINEER:



FLORIDA PRODUCT APPROVAL:

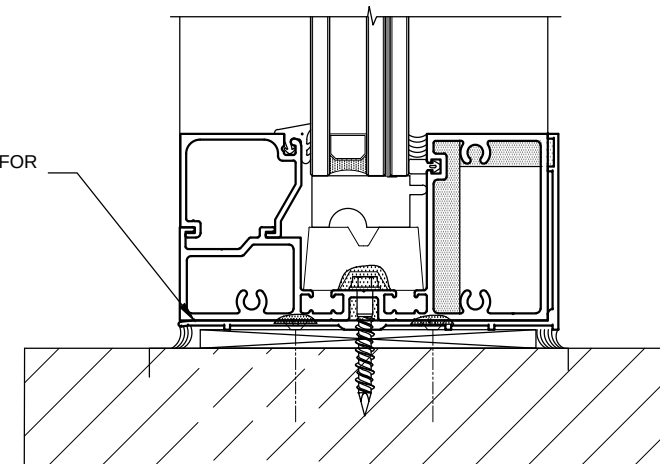
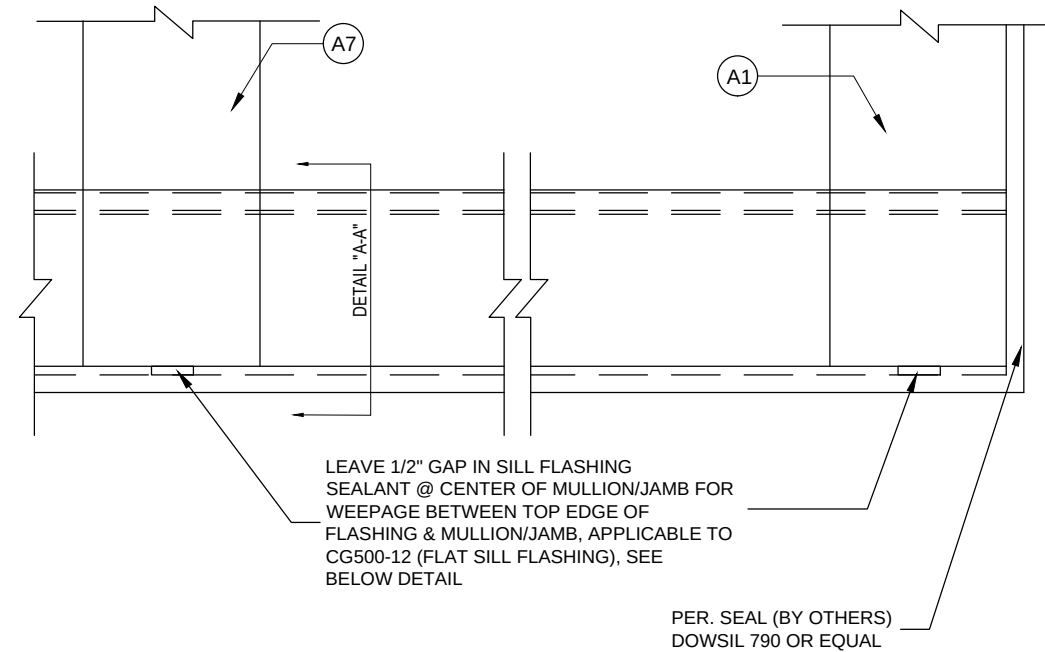
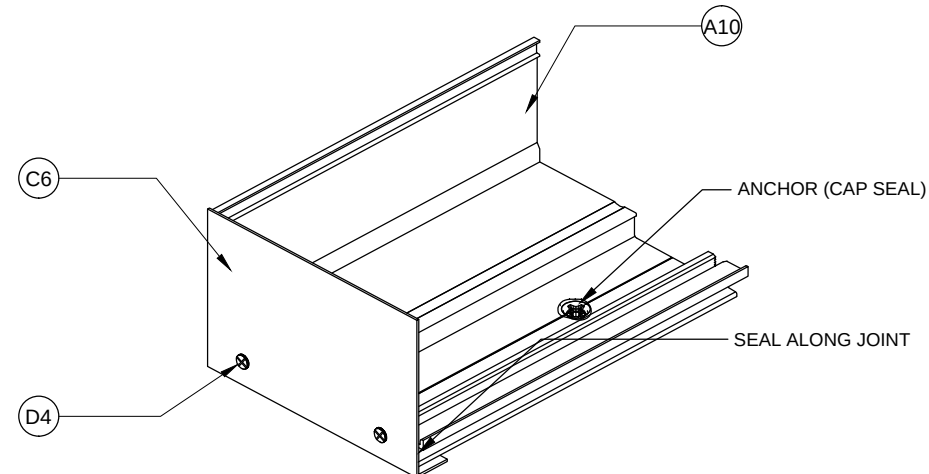
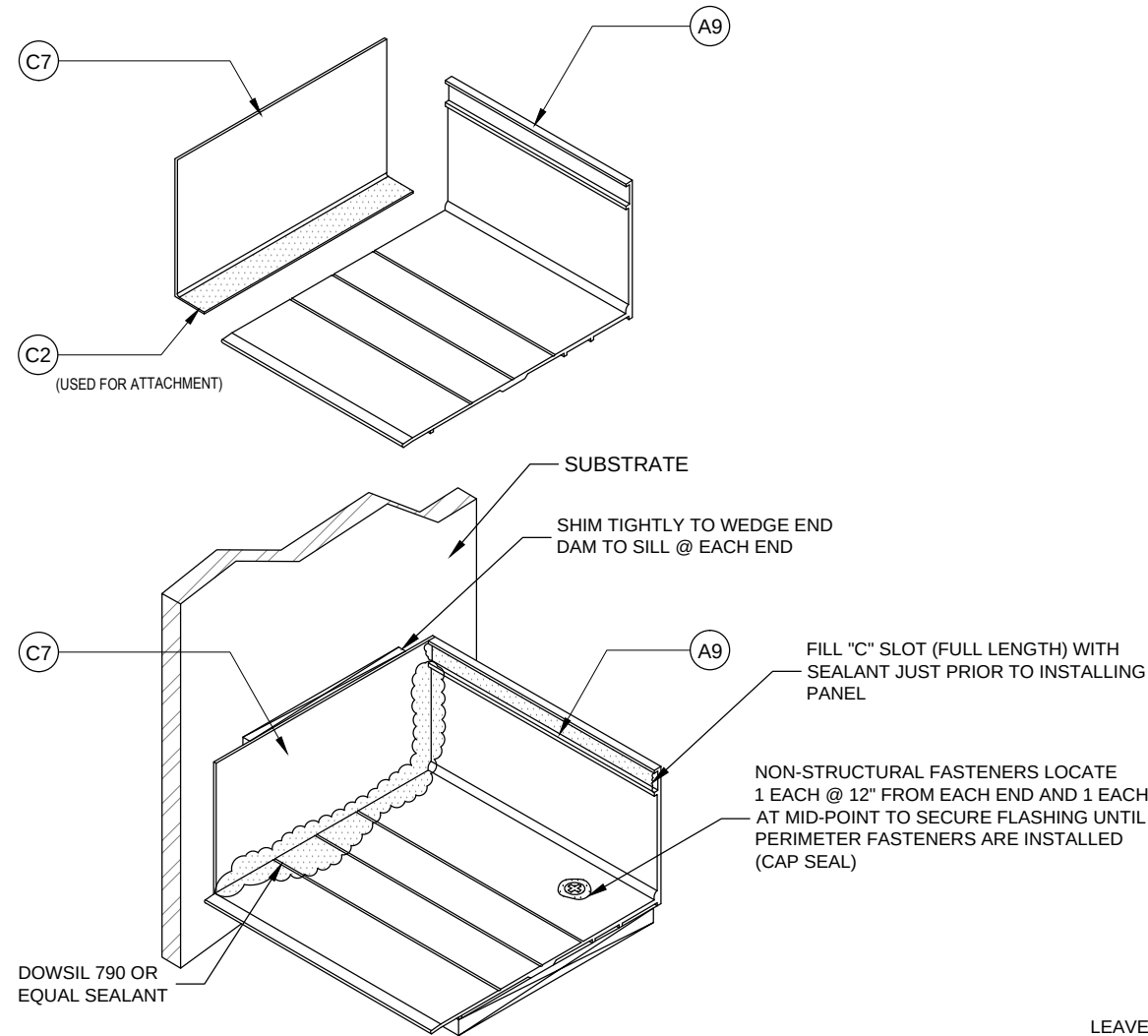
FL44610

DATE: OCT. 20, 2023

DRAWN: Erick CHK: ESN
DRWG. No: 23FL-104 SCALE: N.T.S.

SHEET NO.:

16 OF 20



DETAIL "A-A"

PRODUCT:

CG502 IMPACT
STORE FRONT SYSTEM
LMI (HVHZ)
(WET/DRY GLAZED)

Resistor
PRODUCT SERIES

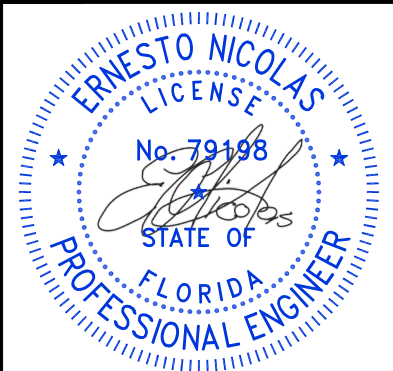
REVN	DATE/REMARKS

ENGINEER:



En3 Engineering & Consultancy

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



FLORIDA PRODUCT APPROVAL:

FL44610

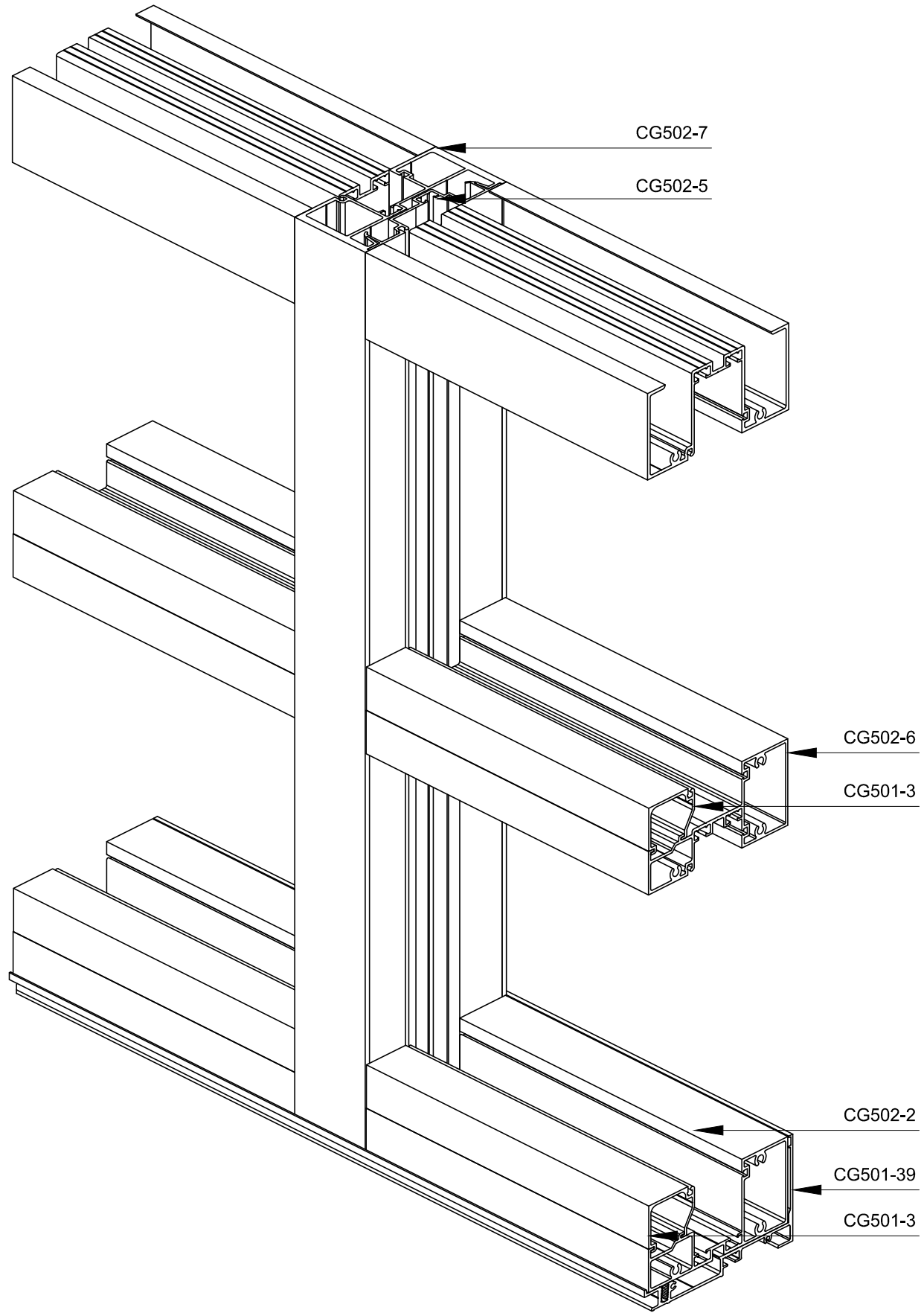
DATE: OCT. 20, 2023

DRAWN: Erick CHK: ESN

DRWG. No: 23FL-104 SCALE: N.T.S.

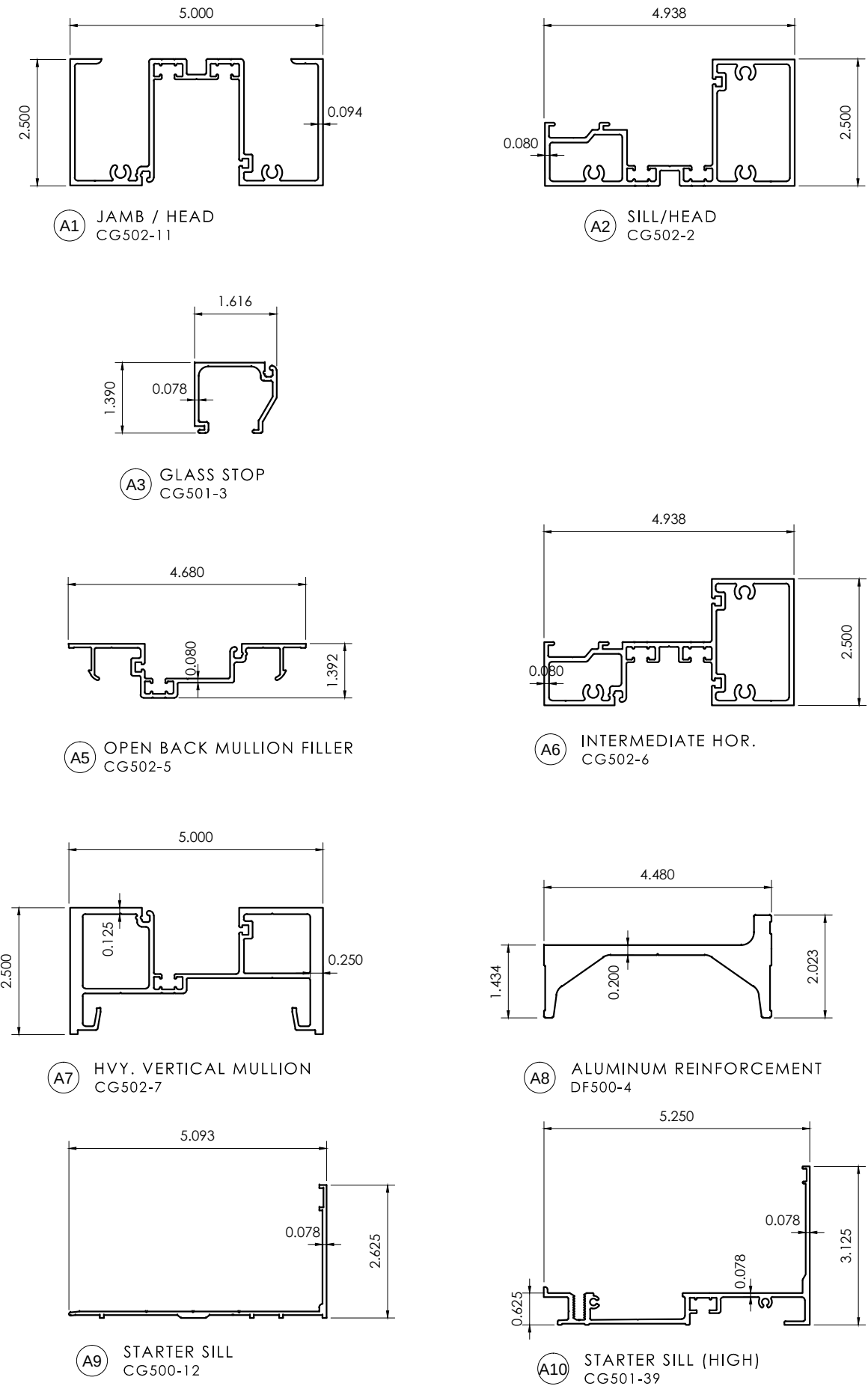
SHEET NO.:

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CG502 IMPACT STOREFRONT SYSTEM

CG502 PARTS TABLE





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p. 800-432-8132

PRODUCT:

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PRODUCT SERIES

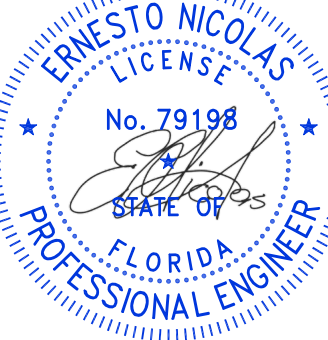
REVN	DATE/REMARKS

ENGINEER:



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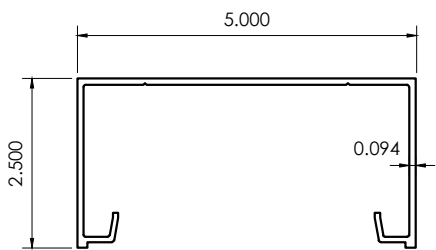
FLORIDA PRODUCT APPROVAL:

FL44610

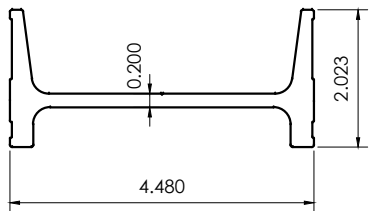
DATE: OCT. 20, 2023	
DRAWN: Erick	CHK: ESN
DRWG. No: 23FL-104	SCALE: N.T.S.
SHEET NO.:	

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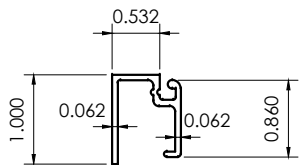
CG502 PARTS TABLE



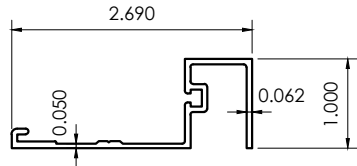
A11 HINGE JAMB
DF500-1



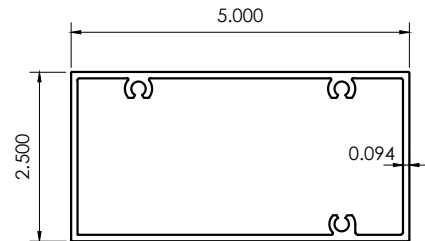
A12 ALUM. REINFORCEMENT
DF500-3



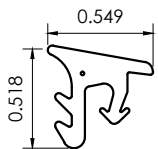
A13 1/8" GLASS STOP
DF107



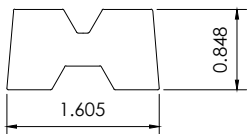
A14 TRANSOM SASH
DF117



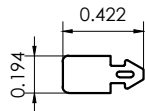
A15 DOOR TRANSOM
DF500-2



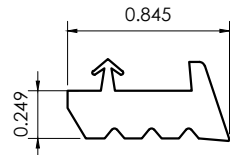
B1 EXT. GLAZING GASKET
RG-2



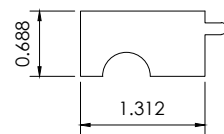
B2 SETTING CHAIR
RSC502



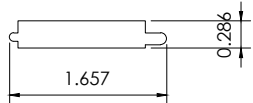
B3 INT. SPACER GASKET
RG-8



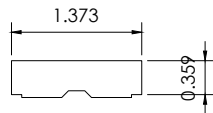
B4 INT. GASKET - DRY GLAZED
RG-13



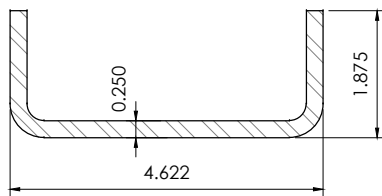
B5 SETTING BLOCK
RSB-13



B6 SETTING BLOCK AT INV. HOR.
RSB-20



B8 SETTING BLOCK
RSB-18



C8 STEEL REINF. (A572,GR.50)
ST500-1



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PRODUCT:

CG502 IMPACT
STORE FRONT SYSTEM
LMI (HVHZ)
(WET/DRY GLAZED)



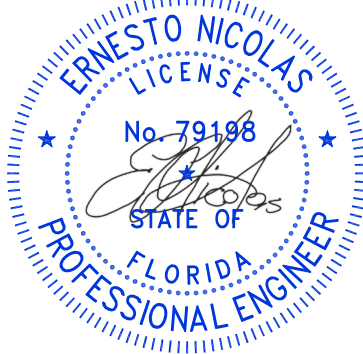
REVN	DATE/REMARKS

ENGINEER:



En3 Engineering & Consultancy

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



FLORIDA PRODUCT APPROVAL:

FL44610

DATE: OCT. 20, 2023

DRAWN: Erick	CHK: ESN
DRWG. No: 23FL-104	SCALE: N.T.S.

SHEET NO.:

19 OF 20

CG502 BILL OF MATERIALS

ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	MANUF.
A 1	CG502-11	JAMB / HEAD	ALUM. 6063-T6	TRULITE
A 2	CG502-2	SILL / HEAD	ALUM. 6063-T6	TRULITE
A 3	CG500-3	GLASS STOP	ALUM. 6063-T6	TRULITE
A 4	-	-	-	-
A 5	CG502-5	MULLION FILLER	ALUM. 6063-T6	TRULITE
A 6	CG502-6	INTERMEDIATE HORIZONTAL	ALUM. 6063-T6	TRULITE
A 7	CG502-7	HEAVY VERTICAL MULLION	ALUM. 6063-T6	TRULITE
A 8	DF500-4	ALUMINUM REINFORCEMENT	ALUM. 6063-T6	TRULITE
A 9	CG500-12	SUBSILL FLASHING	ALUM. 6063-T6	TRULITE
A 10	CG501-39	STARTER SILL	ALUM. 6063-T6	TRULITE
A 11	DF500-1	HINGE JAMB	ALUM. 6063-T6	TRULITE
A 12	DF500-3	ALUMINUM REINFORCEMENT	ALUM. 6063-T6	TRULITE
A 13	DF107	TRANSOM GLASS STOP	ALUM. 6063-T6	TRULITE
A 14	DF117	TRANSOM SASH (1-5/16" GLASS)	ALUM. 6063-T6	TRULITE
A 15	DF500-2	DOOR TRANSOM	ALUM. 6063-T6	TRULITE

ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER
B 1	RG-2	EXTERIOR GLAZING GASKET	EPDM, DURO 65 +-5, SHORE-A	TRULITE
B 2	RSC502	SETTING CHAIR	EPDM, DURO 85 +-5, SHORE-A	TRULITE
B 3	RG-8	INTERIOR SPACER GASKET	EPDM, DURO 75 +-5, SHORE-A	TRULITE
B 4	RG-13	INTERIOR GASKET - DRY GLAZED	EPDM, DURO 65 +-5, SHORE-A	TRULITE
B 5	RSB-13	GLASS SETTING BLOCK (AT L/8 LOCATION)	EPDM, DURO 85 +-5, SHORE-A	TRULITE
B 6	RSB-20	SETTING BLOCK AT INVERTED HORIZONTAL	EPDM, DURO 85 +-5, SHORE-A	TRULITE
B 7	RW500-1	W-BLOCK	EPDM, DURO 70 +-5, SHORE-A	TRULITE
B 8	RSB-18	SETTING BLOCK	EPDM, DURO 85 +-5, SHORE-A	TRULITE

ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER
C 1	WD451	WATER DEFLECTOR	ABS PLASTIC	UNITED PLASTIC
C 2	GT-1	JOINT SEALANT TAPE	BUTIL	SCHNEE-MOREHEAD
C 3	-	ALUMINUM SPACER	ALUMINUM	HELIMA HELVETION INT / VARIES
C 4	-	KODISPACE 4SG WARM EDGE SPACER	THERMOPLASTIC	HB FULLER KOMMERLING
C 5	DOWSIL 995	GLASS TO METAL ADHESIVE	SILICONE	DOW
C 6	ED500-2	END DAM (CG501-39 SILL)	ALUMINUM	TRULITE
C 7	ED500-1	END DAM (CG500-12 SILL)	ABS PLASTIC	UNITED PLASTIC
C 8	ST500-1	DOOR JAMB STEEL REINF.	STEEL (A572-GR. 50)	VARIES

ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER
D 1	FAS14-2	#14x1" HH (ASSEMBLY SCREW)	ZINC COATED STEEL (GR. 5)	ALLOY FASTENERS
D 2	FAS10-1	#10-16 X $\frac{1}{2}$ " HWH	ZINC COATED STEEL	ALLOY FASTENERS
D 3	23219	$\frac{1}{4}$ "-20 x 1 $\frac{3}{8}$ " FH MS 18-8 SS	STAINLESS STEEL	ALLOY FASTENERS
D 4	23005	#6 x $\frac{3}{8}$ " PHP MS S/S	STAINLESS STEEL	ALLOY FASTENERS
D 5	-	#12 x 2" PFH SCREW	ZINC COATED STEEL	ALLOY FASTENERS
D 6	23163	#12 x 3/4" UPFH-23 MS	ZINC COATED STEEL	ALLOY FASTENERS



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PRODUCT SERIES

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ERNESTO NICOLAS
LICENSE
No. 79198
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

FLORIDA PRODUCT APPROVAL:

FL44610

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