

"450 SERIES" ALUMINUM STOREFRONT SYSTEM

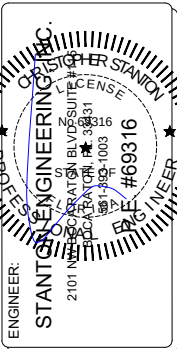
LARGE MISSILE & SMALL MISSILE IMPACT • +45 / -63

FL #46902.1



Digitally signed by Christopher Stanton
Date: 2026.10.14 07:10:53 -04'00'

REVISIONS:		DATE	DESCRIPTION
NO.	DATE	DESCRIPTION	
1			
2			
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INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1

DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2

SEE CHARTS ON SHEETS 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE BASED ON APPLICABLE WIND DURATION.
- STEP 3

CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 3, THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4

USING CHART ON SHEET 4, SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5

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

NOTE:

2026 FLORIDA BUILDING CODE (FBC), 9TH EDITION
IS BASED ON THE 2024 IBC (INTERNATIONAL BUILDING CODE).

CODES / STANDARDS USED:

2026 FLORIDA BUILDING CODE (FBC), 9TH EDITION
ASTM E1300-16
ANSI/AWC NDS-2024 FOR WOOD CONSTRUCTION W/ 2015 SUPPLEMENT
ALUMINUM DESIGN MANUAL, ADM1-2020

TESTS PERFORMED:

TAS 202	AIR INFILTRATION, WATER PENETRATION, STRUCTURAL
ASTM E283	AIR INFILTRATION LEAKAGE
ASTM E331	WATER PENETRATION
ASTM E330	UNIFORM STATIC AIR PRESS. (STRUCTURAL)
(FBC 1626.2 , HVHZ) TAS 201 & 203 ASTM E1886/E1996	LARGE MISSILE IMPACT & CYCLIC LEVEL D

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 9TH EDITION (2026) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

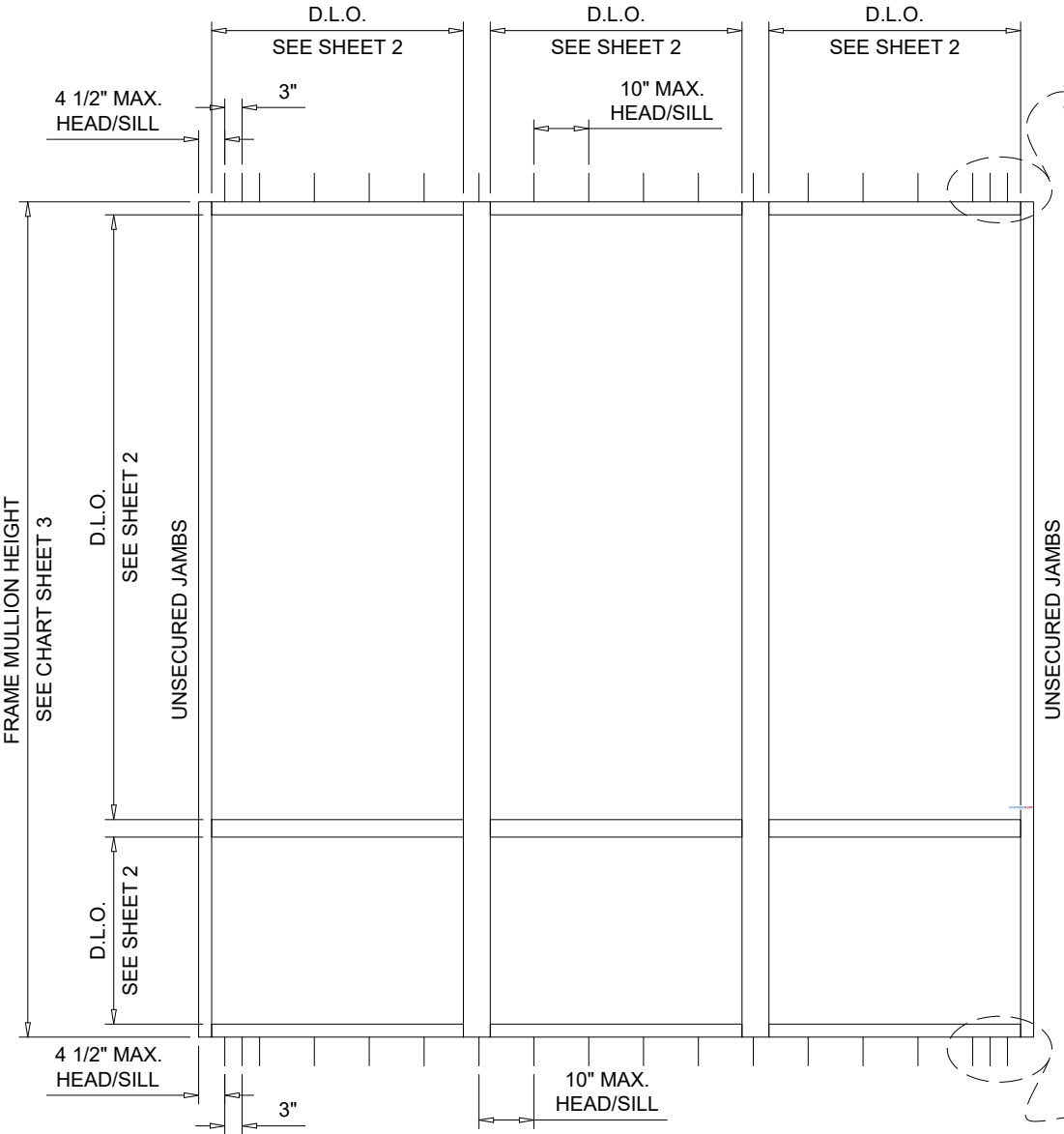
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

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

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2026 FLORIDA BUILDING CODE.



ANCHORS TYPE A, B OR C.
SEE SHEET 4

ANCHORS TYPE A, B OR C.
SEE SHEET 4

CHAMPION GLASS INC.

4720 NW 15TH AVENUE, UNIT 4A,
FT. LAUDERDALE, FL. 33309

954-564-3435 · CHAMPION-GLASS.NET

"450 SERIES"
ALUM. STOREFRONT SYSTEM
(L.M.I. & S.M.I.)

PRODUCT APPROVAL #:
FL #46902.1

SCALE: NOTED

DATE: 07/09/2026

DWG NO.
CHGL-450 SF-2026

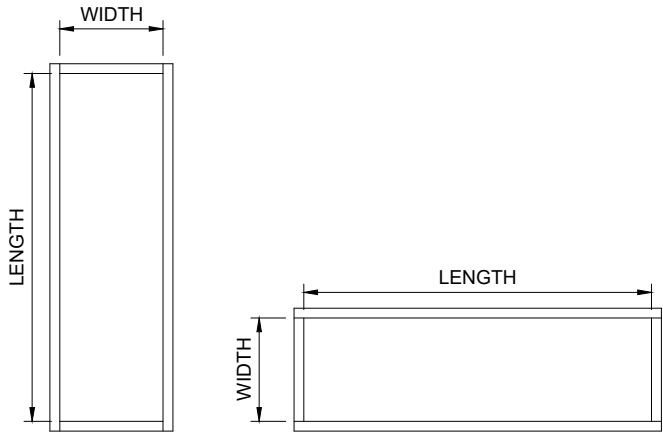
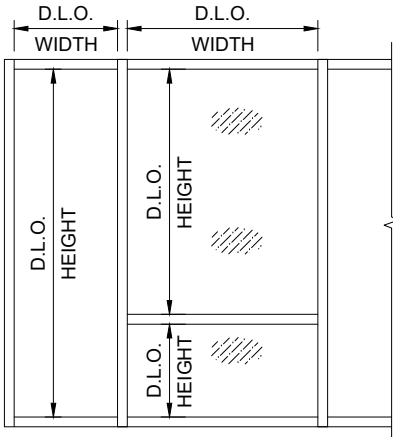
SHEET No:

01 OF 11

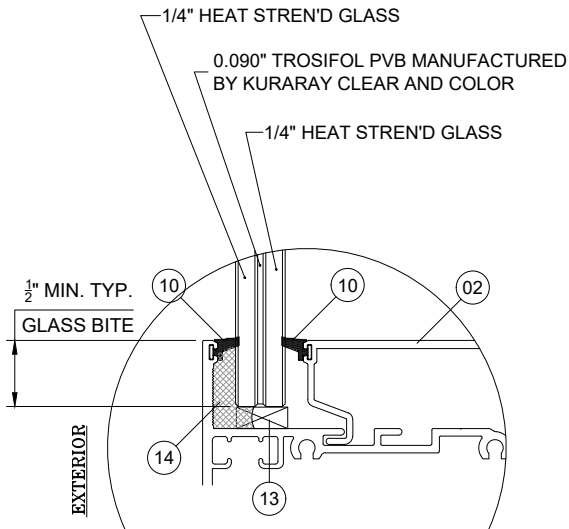
GLASS LOAD CAPACITY - PSF				GLASS LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS "A"	GLASS "B"	NOMINAL DIMS.		GLASS "A"	GLASS "B"
D.L.O. WIDTH	D.L.O. HEIGHT	POS (+) / NEG (-)	POS (+) / NEG (-)	D.L.O. WIDTH	D.L.O. HEIGHT	POS (+) / NEG (-)	POS (+) / NEG (-)
20"	30"	+45 / -63	+45 / -63	20"	70"	+45 / -63	+45 / -63
24"		+45 / -63	+45 / -63	24"		+45 / -63	+45 / -63
28"		+45 / -63	+45 / -63	28"		+45 / -63	+45 / -63
32"		+45 / -63	+45 / -63	32"		+45 / -63	+45 / -63
36"		+45 / -63	+45 / -63	36"		+45 / -63	+45 / -63
40"		+45 / -63	+45 / -63	40"		+45 / -63	+45 / -63
43 1/2"		+45 / -63	+45 / -63	43 1/2"		+45 / -63	+45 / -63
20"	36"	+45 / -63	+45 / -63	20"	76"	+45 / -63	+45 / -63
24"		+45 / -63	+45 / -63	24"		+45 / -63	+45 / -63
28"		+45 / -63	+45 / -63	28"		+45 / -63	+45 / -63
32"		+45 / -63	+45 / -63	32"		+45 / -63	+45 / -63
36"		+45 / -63	+45 / -63	36"		+45 / -63	+45 / -63
40"		+45 / -63	+45 / -63	40"		+45 / -63	+45 / -63
43 1/2"		+45 / -63	+45 / -63	43 1/2"		+45 / -63	+45 / -63
20"	42"	+45 / -63	+45 / -63	20"	82"	+45 / -63	+45 / -63
24"		+45 / -63	+45 / -63	24"		+45 / -63	+45 / -63
28"		+45 / -63	+45 / -63	28"		+45 / -63	+45 / -63
32"		+45 / -63	+45 / -63	32"		+45 / -63	+45 / -63
36"		+45 / -63	+45 / -63	36"		+45 / -63	+45 / -63
40"		+45 / -63	+45 / -63	40"		+45 / -63	+45 / -63
43 1/2"		+45 / -63	+45 / -63	43 1/2"		+45 / -63	+45 / -63
20"	48"	+45 / -63	+45 / -63	20"	88"	+45 / -63	+45 / -63
24"		+45 / -63	+45 / -63	24"		+45 / -63	+45 / -63
28"		+45 / -63	+45 / -63	28"		+45 / -63	+45 / -63
32"		+45 / -63	+45 / -63	32"		+45 / -63	+45 / -63
36"		+45 / -63	+45 / -63	36"		+45 / -63	+45 / -63
40"		+45 / -63	+45 / -63	40"		+45 / -63	+45 / -63
43 1/2"		+45 / -63	+45 / -63	43 1/2"		+45 / -63	+45 / -63
20"	52"	+45 / -63	+45 / -63	20"	94"	+45 / -63	+45 / -63
24"		+45 / -63	+45 / -63	24"		+45 / -63	+45 / -63
28"		+45 / -63	+45 / -63	28"		+45 / -63	+45 / -63
32"		+45 / -63	+45 / -63	32"		+45 / -63	+45 / -63
36"		+45 / -63	+45 / -63	36"		+45 / -63	+45 / -63
40"		+45 / -63	+45 / -63	40"		+45 / -63	+45 / -63
43 1/2"		+45 / -63	+45 / -63	43 1/2"		+45 / -63	+45 / -63
20"	58"	+45 / -63	+45 / -63	20"	100"	+45 / -63	+45 / -63
24"		+45 / -63	+45 / -63	24"		+45 / -63	+45 / -63
28"		+45 / -63	+45 / -63	28"		+45 / -63	+45 / -63
32"		+45 / -63	+45 / -63	32"		+45 / -63	+45 / -63
36"		+45 / -63	+45 / -63	36"		+45 / -63	+45 / -63
40"		+45 / -63	+45 / -63	40"		+45 / -63	+45 / -63
43 1/2"		+45 / -63	+45 / -63	43 1/2"		+45 / -63	+45 / -63
20"	64"	+45 / -63	+45 / -63	20"	103 1/2"	+45 / -63	+45 / -63
24"		+45 / -63	+45 / -63	24"		+45 / -63	+45 / -63
28"		+45 / -63	+45 / -63	28"		+45 / -63	+45 / -63
32"		+45 / -63	+45 / -63	32"		+45 / -63	+45 / -63
36"		+45 / -63	+45 / -63	36"		+45 / -63	+45 / -63
40"		+45 / -63	+45 / -63	40"		+45 / -63	+45 / -63
43 1/2"		+45 / -63	+45 / -63	43 1/2"		+45 / -63	+45 / -63

NOTE:
TESTED GLASS SIZE = 44-7/16" X104-1/4" = 32.2 SQ. FT.;
ALTERNATE GLASS SIZES ACCEPTABLE SO LONG AS
PROJECT AREA OF GLASS (SQ. FT.) DOES NOT
EXCEED TESTED AREA OF GLASS (SQ. FT.)

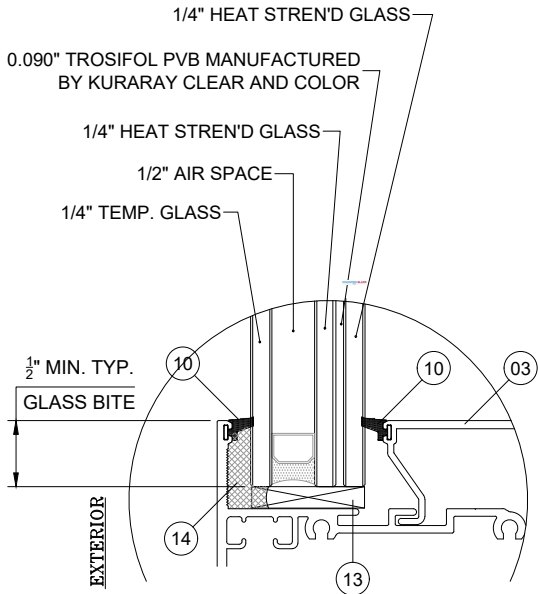
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS).



NOTE:
WIDTH AND LEGTH DIMENSIONS CAN
BE ORIENTED VERTICALLY OR
HORIZONTALLY AS SHOWN ABOVE.



GLASS TYPE 'A'
IMPACT "LAMINATED" GLASS



GLASS TYPE 'B'
IMPACT "LAMINATED INSULATED" GLASS

REVISIONS:		DESCRIPTION:	
NO	DATE		

ENGINEER:
STANT
2101 N. ...
#69316
#69316

PROJECT:
...
#69316

DESIGNER:
...
#69316

CHAMPION GLASS INC

4720 NW 15TH AVENUE, UNIT 4A,
FT. LAUDERDALE, FL. 33309
954-564-3435 · CHAMPION-GLASS.NET

"450 SERIES"

ALUM. STOREFRONT SYSTEM
(L.M.I. & S.M.I.)

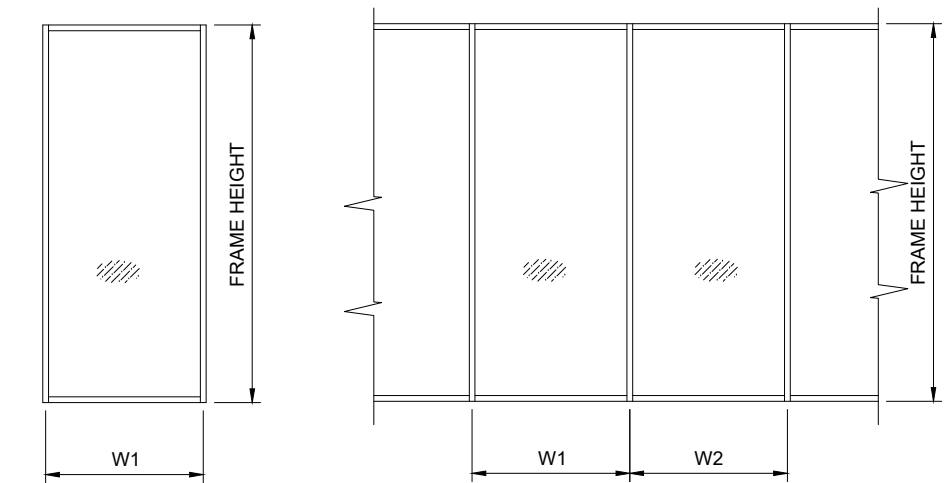
PRODUCT APPROVAL #:
FL #46902.1

SCALE: NOTED
DATE: 07/09/2026
DWG NO. CHGL-450 SF-2026

SHEET No:
02 OF 11

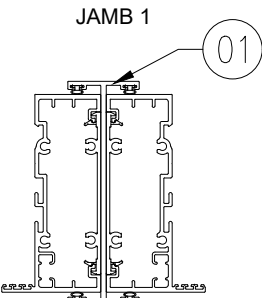
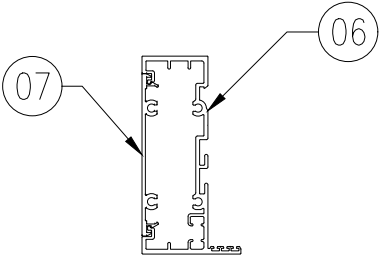
JAMB / MULLION LOAD CAPACITIES - PSF			
FRAME SIZES (IN.)		'J1' JAMB UNSUPPORTED	'M1' MULL
WIDTH (W)	MULL LENGTH		
24"	78"	+45.0/-63.0	+45.0/-63.0
30"		+45.0/-63.0	+45.0/-63.0
36"		+45.0/-63.0	+45.0/-63.0
42"		+45.0/-63.0	+45.0/-63.0
48"		+45.0/-63.0	+45.0/-63.0
24"	84"	+45.0/-63.0	+45.0/-63.0
30"		+45.0/-63.0	+45.0/-63.0
36"		+45.0/-63.0	+45.0/-63.0
42"		+45.0/-63.0	+45.0/-63.0
48"		+45.0/-63.0	+45.0/-63.0
24"	90"	+45.0/-63.0	+45.0/-63.0
30"		+45.0/-63.0	+45.0/-63.0
36"		+45.0/-63.0	+45.0/-63.0
42"		+45.0/-63.0	+45.0/-63.0
48"		+45.0/-63.0	+45.0/-63.0
24"	96"	+45.0/-63.0	+45.0/-63.0
30"		+45.0/-63.0	+45.0/-63.0
36"		+45.0/-63.0	+45.0/-63.0
42"		+45.0/-63.0	+45.0/-63.0
48"		+45.0/-63.0	+45.0/-63.0
24"	102"	+45.0/-63.0	+45.0/-63.0
30"		+45.0/-63.0	+45.0/-63.0
36"		+45.0/-63.0	+45.0/-63.0
42"		+45.0/-63.0	+45.0/-63.0
48"		+45.0/-63.0	+45.0/-63.0
24"	108"	+45.0/-63.0	+45.0/-63.0
30"		+45.0/-63.0	+45.0/-63.0
36"		+45.0/-63.0	+45.0/-63.0
42"		+45.0/-63.0	+45.0/-63.0
48"		+45.0/-63.0	+45.0/-63.0

JAMB / MULLION LOAD CAPACITIES - PSF			
FRAME SIZES (IN.)		'J1' JAMB UNSUPPORTED	'M1' MULL
WIDTH (W)	MULL LENGTH		
24"	114"	+45.0/-63.0	+45.0/-63.0
30"		+45.0/-63.0	+45.0/-63.0
36"		+45.0/-63.0	+45.0/-63.0
42"		+45.0/-63.0	+45.0/-63.0
48"		+45.0/-63.0	+45.0/-63.0
24"	120"	+45.0/-63.0	+45.0/-63.0
30"		+45.0/-63.0	+45.0/-63.0
36"		+45.0/-63.0	+45.0/-63.0
42"		+45.0/-63.0	+45.0/-63.0
48"		+45.0/-59.0	+45.0/-63.0
24"	126"	+45.0/-63.0	+45.0/-63.0
30"		+45.0/-63.0	+45.0/-63.0
36"		+45.0/-63.0	+45.0/-63.0
42"		+45.0/-58.0	+45.0/-63.0
48"		+45.0/-51.0	+45.0/-63.0
24"	132"	+45.0/-63.0	+45.0/-63.0
30"		+45.0/-63.0	+45.0/-63.0
36"		+45.0/-59.0	+45.0/-63.0
42"		+45.0/-50.0	+45.0/-63.0
48"		+44.0/-44.0	+45.0/-63.0
24"	138"	+45.0/-63.0	+45.0/-63.0
30"		+45.0/-62.0	+45.0/-63.0
36"		+45.0/-52.0	+45.0/-63.0
42"		+45.0/-45.0	+45.0/-63.0
48"		+39.0/-39.0	+45.0/-55.8
24"	144"	+45.0/-63.0	+45.0/-63.0
30"		+45.0/-55.0	+45.0/-63.0
36"		+45.0/-46.0	+45.0/-63.0
42"		+39.0/-39.0	+45.0/-56.0
48"		+34.0/-34.0	+45.0/-48.9

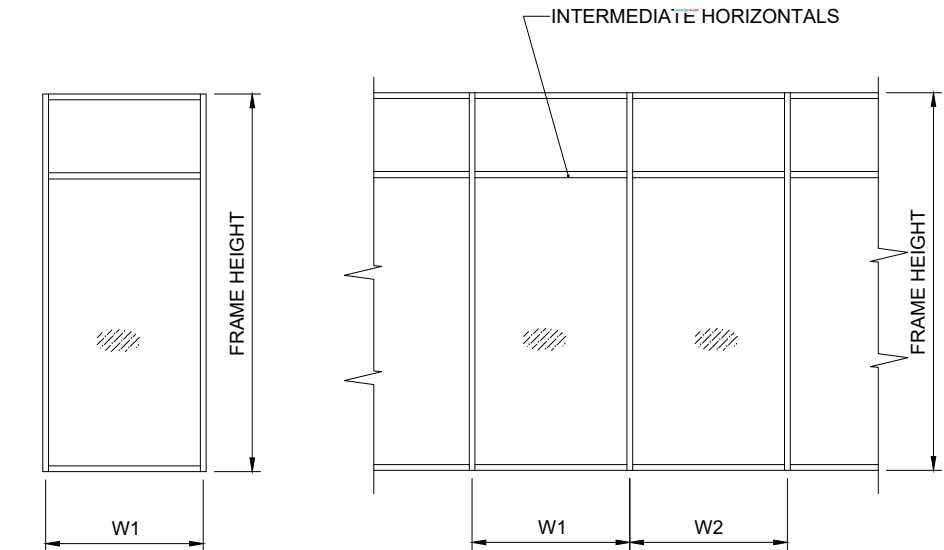


WIDTH (W) = W1 (JAMB)

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



MULLION 1



WIDTH (W) = W1 (JAMB)

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

REVISIONS:		DESCRIPTION:	
NO.	DATE	NO.	DATE
1		1	
2		2	
3		3	
4		4	
5		5	

CHAMPION GLASS INC.
2101 NW 15TH AVENUE, UNIT 4A
FT. LAUDERDALE, FL. 33309
954-564-3435

ENGINEER:
STANT
PROFESSIONAL ENGINEERING
FL. REG. NO. 33309
FL. REG. NO. 1003
FL. REG. NO. 69316
FL. REG. NO. 69316

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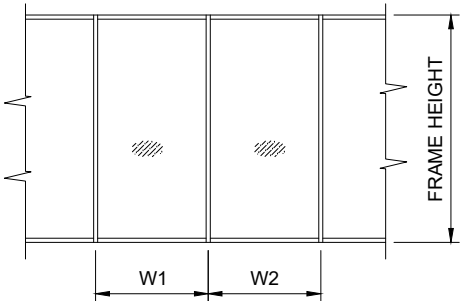
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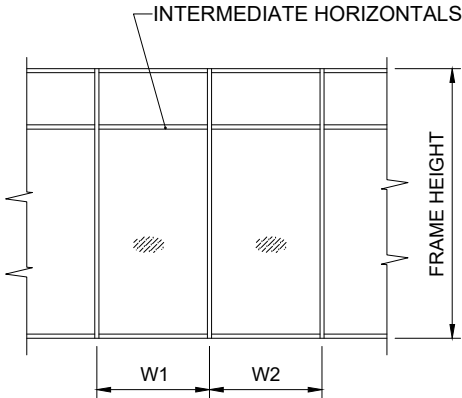
DWG NO: CHGL-450 SF-2026

SHEET No:
03 OF 11

ANCHOR LOAD CAPACITIES (PSF) - EXT. (+) AND INT. (-) CLUSTERS AT HEAD/SILL									
FRAME SIZES (IN.)		ANCHOR TYPES / QUANTITIES							
WIDTH (W)	FRAME HEIGHT	'A2'	'AA2'	'B2'	'C2'	'A3'	'AA3'	'B3'	'C3'
24"	78"	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
30"		63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
36"		63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
42"		52.2	63.0	63.0	63.0	63.0	63.0	63.0	63.0
48"		54.5	63.0	63.0	63.0	63.0	63.0	63.0	63.0
24"	84"	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
30"		63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
36"		63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
42"		57.8	63.0	63.0	63.0	63.0	63.0	63.0	63.0
48"		50.6	56.5	63.0	63.0	63.0	63.0	63.0	63.0
24"	90"	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
30"		63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
36"		62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0
42"		53.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0
48"		47.2	56.5	63.0	63.0	63.0	63.0	63.0	63.0
24"	96"	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
30"		63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
36"		59.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
42"		50.6	60.6	63.0	63.0	63.0	63.0	63.0	63.0
48"		44.3	53.0	63.0	63.0	63.0	63.0	63.0	63.0
24"	102"	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
30"		63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
36"		55.5	63.0	63.0	63.0	63.0	63.0	63.0	63.0
42"		47.6	57.0	63.0	63.0	63.0	63.0	63.0	63.0
48"		41.6	49.9	63.0	63.0	62.5	63.0	63.0	63.0
24"	108"	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
30"		62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0
36"		52.4	62.8	63.0	63.0	63.0	63.0	63.0	63.0
42"		45.0	53.8	63.0	63.0	63.0	63.0	63.0	63.0
48"		39.3	47.1	63.0	63.0	59.0	63.0	63.0	63.0
24"	114"	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
30"		59.6	63.0	63.0	63.0	63.0	63.0	63.0	63.0
36"		49.7	59.5	63.0	63.0	63.0	63.0	63.0	63.0
42"		42.6	51.0	63.0	63.0	63.0	63.0	63.0	63.0
48"		37.3	44.6	63.0	63.0	55.9	63.0	63.0	63.0
24"	120"	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
30"		56.6	63.0	63.0	63.0	63.0	63.0	63.0	63.0
36"		47.2	56.5	63.0	63.0	63.0	63.0	63.0	63.0
42"		40.5	48.5	63.0	63.0	60.7	63.0	63.0	63.0
48"		35.4	42.4	63.0	60.4	53.1	63.0	63.0	63.0
24"	126"	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
30"		53.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0
36"		45.0	53.8	63.0	63.0	63.0	63.0	63.0	63.0
42"		38.5	46.1	63.0	63.0	57.8	63.0	63.0	63.0
48"		33.7	40.4	63.0	57.5	50.6	60.6	63.0	63.0
24"	132"	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
30"		51.5	61.7	63.0	63.0	63.0	63.0	63.0	63.0
36"		24.9	51.4	63.0	63.0	63.0	63.0	63.0	63.0
42"		36.8	44.1	63.0	62.8	55.2	63.0	63.0	63.0
48"		32.2	38.5	63.0	54.9	48.3	57.8	63.0	63.0
24"	138"	61.6	63.0	63.0	63.0	63.0	63.0	63.0	63.0
30"		49.3	59.0	63.0	63.0	63.0	63.0	63.0	63.0
36"		41.0	49.2	63.0	63.0	61.6	63.0	63.0	63.0
42"		35.2	42.1	63.0	60.0	52.8	63.0	63.0	63.0
48"		30.8	36.9	63.0	52.5	46.2	55.3	63.0	63.0
24"	144"	59.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
30"		47.2	56.5	63.0	63.0	63.0	63.0	63.0	63.0
36"		39.3	47.1	63.0	63.0	59.0	63.0	63.0	63.0
42"		33.7	40.4	63.0	57.5	50.6	60.6	63.0	63.0
48"		29.5	35.3	63.0	50.3	44.3	53.0	63.0	63.0



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



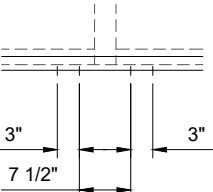
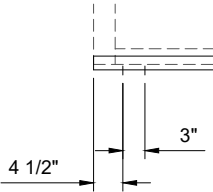
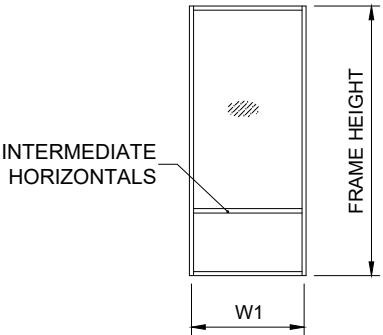
WIDTH (W) = $\frac{W1 + W2}{2}$

NOTE:
FASTENERS ON INSTALLATIONS WITHIN 3000 FT. OF THE COASTLINE MUST MEET SECTION 1711 OF THE 9th EDITION FLORIDA BUILDING CODE (FBC).

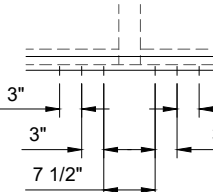
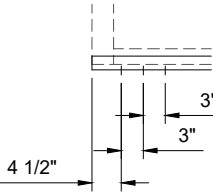
FASTENERS IN THIS PRODUCT ARE SEALED AND NOT EXPOSED TO THE AIR.

NOTE:
ALTERNATE ANCHOR TYPES/ CONDITIONS SHALL BE DESIGNED BY A FLORIDA LICENSED ENGINEER FOR PROJECT SPECIFIC DESIGN CRITERIA BASED ON SEALANT MANUFACTURERS' TECHNICAL DATA.

WOOD BUCKS AND METAL STRUCTURES, NOT BY CHAMPION GLASS, MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE. FRAME BITE INSIDE RECEPTORS MIN. 7/16".



A2, B2, C2



A3, B3, C3

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' 1/4" ITW TAPCONS OR DEWALT ULTRACON+ INTO 2BY WOOD BUCKS OR WOOD STRUCTURES (NO. 2 SOUTHERN YELLOW PINE) 1-1/2" MIN. PENETRATION INTO WOOD

TYPE 'AA' 1/4" ITW TAPCONS OR DEWALT ULTRACON+ DIRECTLY INTO CBS (GROUT FILLED OR HOLLOW) 1-3/4" MIN. EMBEDMENT OR

THRU 1BY WOOD BUCKS INTO CBS 1-1/4" MIN. EMBED INTO HOLLOW BLOCK 1-3/4" MIN. EMBED INTO GROUT FILLED BLOCK

TYPE 'B' 1/4" ITW TAPCONS OR DEWALT ULTRACON+ DIRECTLY INTO 3000 PSI MIN. CONCRETE 1-3/4" MIN. EMBED INTO CONC.

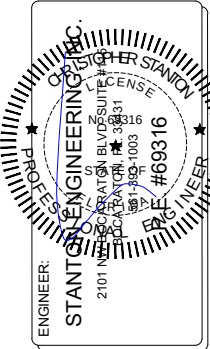
OR

THRU 1BY WOOD BUCKS INTO CONC. 1-3/4" MIN. EMBED INTO CONCRETE

TYPE 'C' #14 SMS OR 1/4" SELF DRILLING SCREWS INTO METAL STRUCTURES (STEEL OR ALUMINUM) MIN. (3) THREADS THROUGH METAL THICKNESS STEEL : 18 GA MIN. ALUMINUM : .080" THICK, 6063-T6 MIN.

TYPICAL ANCHOR EDGE DISTANCE INTO CONCRETE AND MASONRY = 2-1/2" MIN. INTO WOOD STRUCTURE = 1" MIN. INTO METAL STRUCTURE = 1/2" MIN.

REVISIONS:		DESCRIPTION:	
NO	DATE		



CHAMPION GLASS
INC

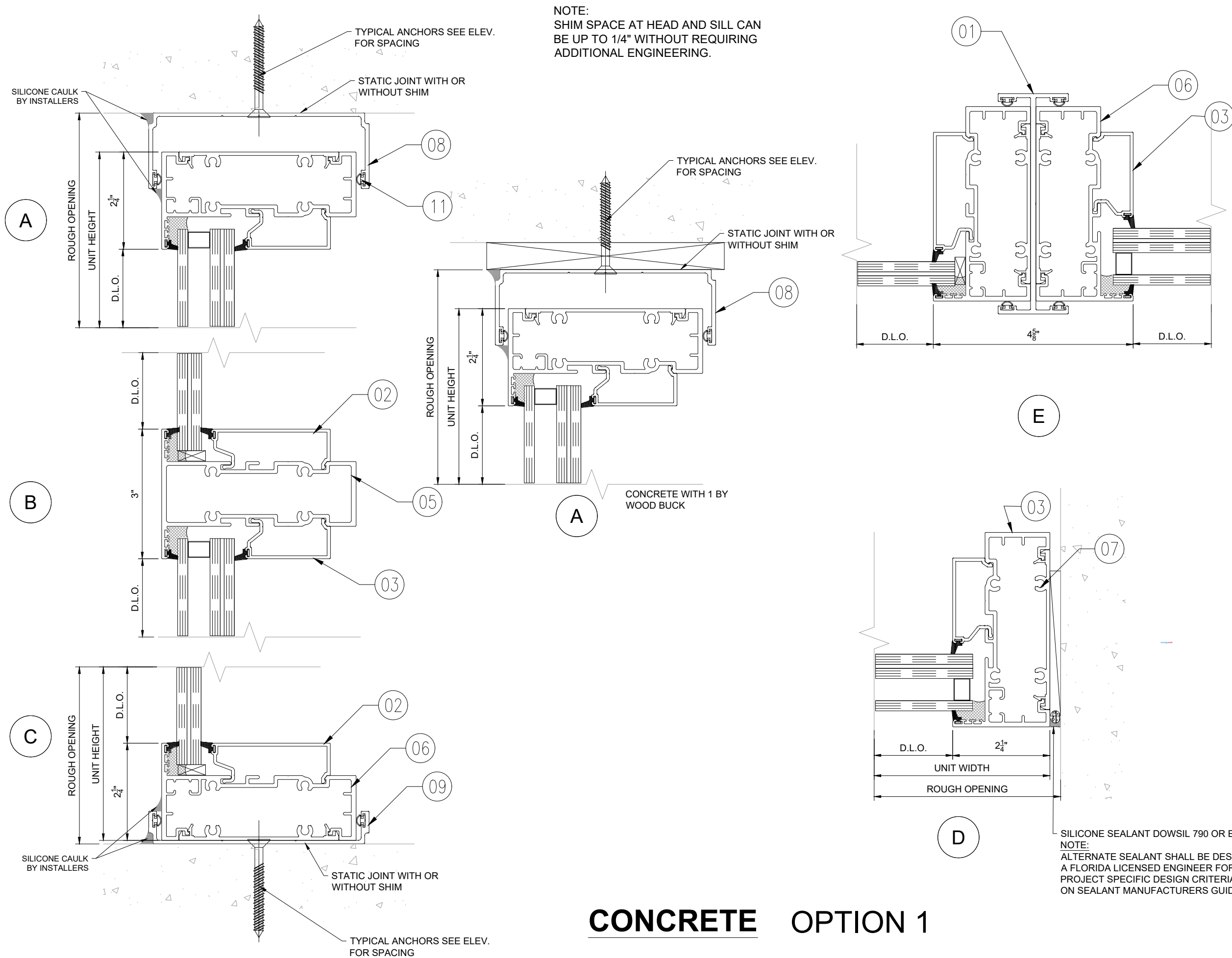
4720 NW 15TH AVENUE, UNIT 4A,
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954-564-3435 · CHAMPION-GLASS.NET

PRODUCT: "450 SERIES"
ALUM. STOREFRONT SYSTEM
(L.M.I. & S.M.I.)

PRODUCT APPROVAL #:
FL #46902.1

SCALE: NOTED
DATE: 07/09/2026
DWG NO. CHGL-450 SF-2026

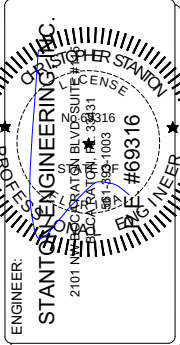
SHEET No:
04 OF 11



NOTE:
SHIM SPACE AT HEAD AND SILL CAN
BE UP TO 1/4" WITHOUT REQUIRING
ADDITIONAL ENGINEERING.

SILICONE SEALANT DOWSIL 790 OR EQUAL
NOTE:
ALTERNATE SEALANT SHALL BE DESIGNED BY
A FLORIDA LICENSED ENGINEER FOR
PROJECT SPECIFIC DESIGN CRITERIA BASED
ON SEALANT MANUFACTURERS GUIDELINES.

REVISIONS:		DESCRIPTION:
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CHAMPION GLASS
INC

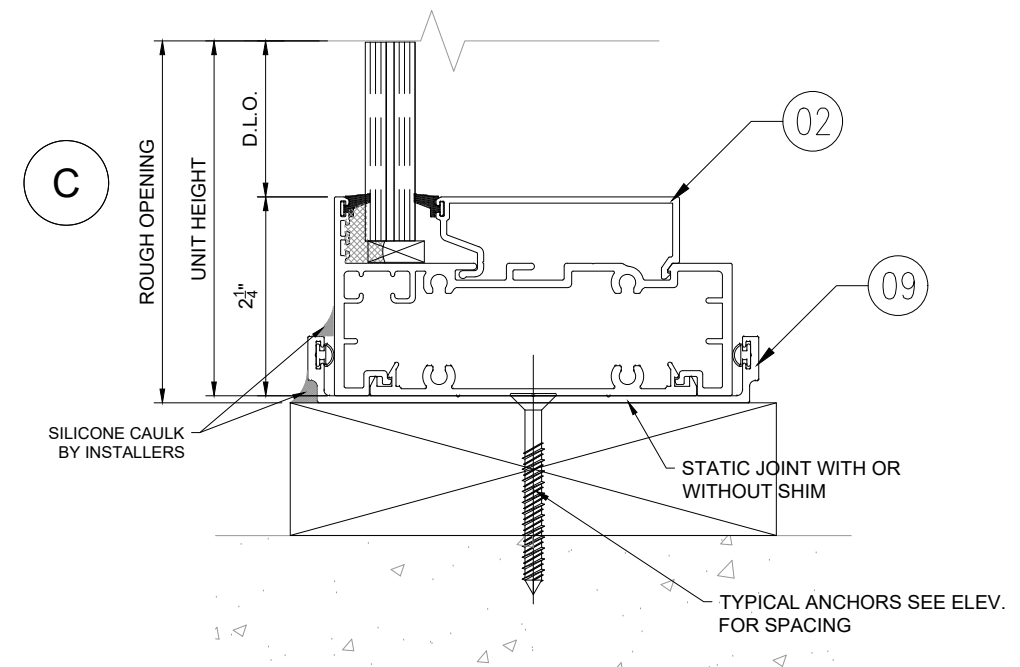
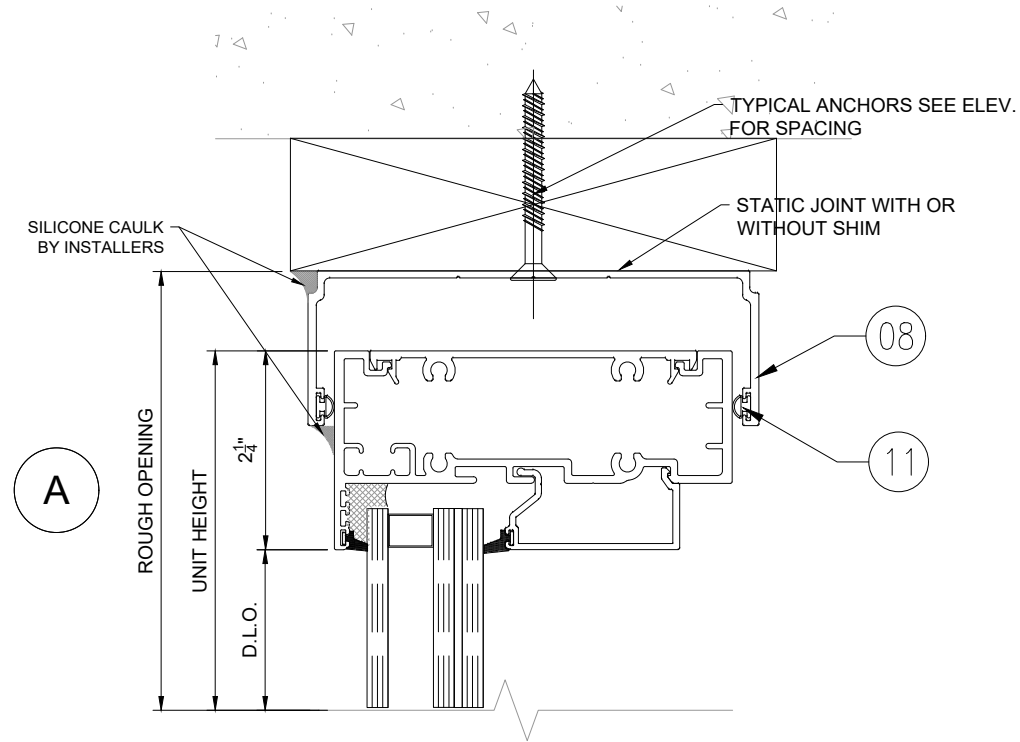
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PRODUCT:
"450 SERIES"
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(L.M.I. & S.M.I.)

PRODUCT APPROVAL #:
FL #46902.1

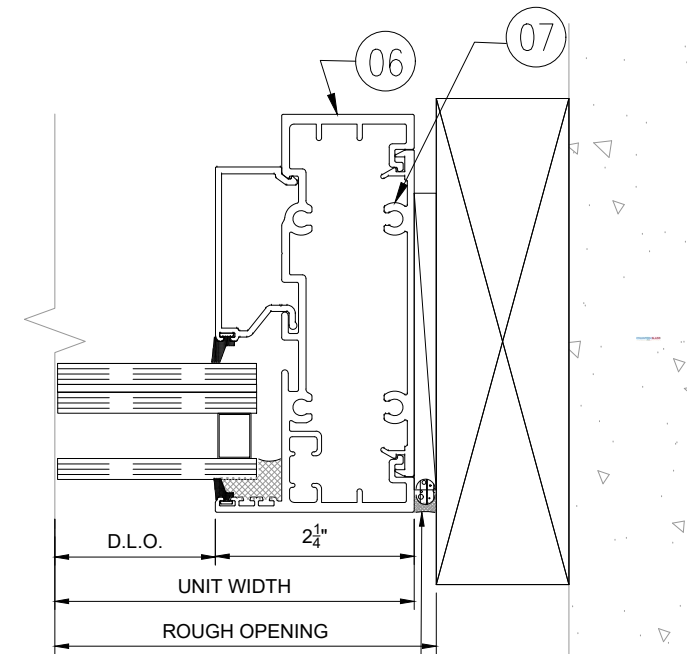
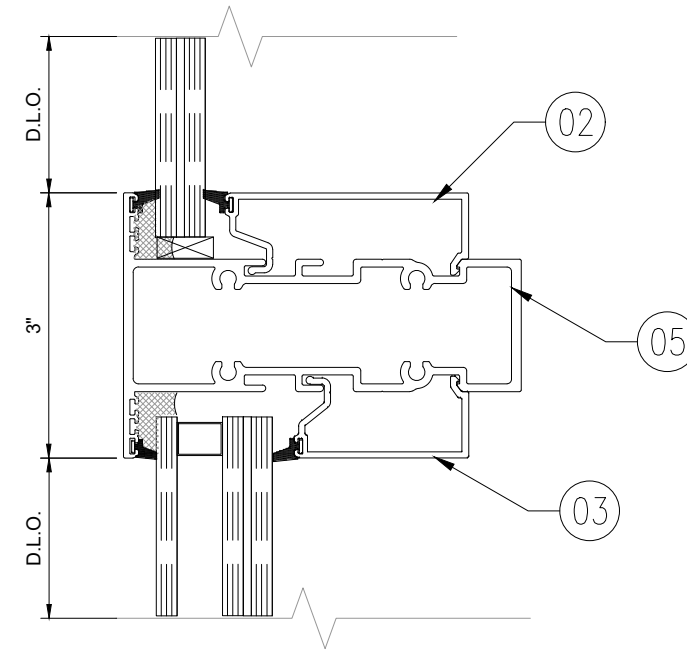
SCALE: NOTED
DATE: 07/09/2026
DWG NO. CHGL-450 SF-2026

SHEET No:
05 OF 11



NOTE:
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ADDITIONAL ENGINEERING.

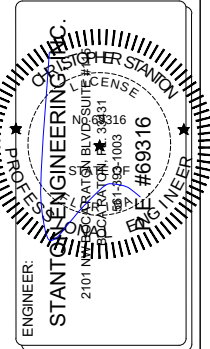
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SILICONE SEALANT DOWSIL 790 OR EQUAL
NOTE:
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A FLORIDA LICENSED ENGINEER FOR
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ON SEALANT MANUFACTURERS GUIDELINES.

WOOD OPTION 1

REVISIONS:	NO.	DATE	DESCRIPTION:
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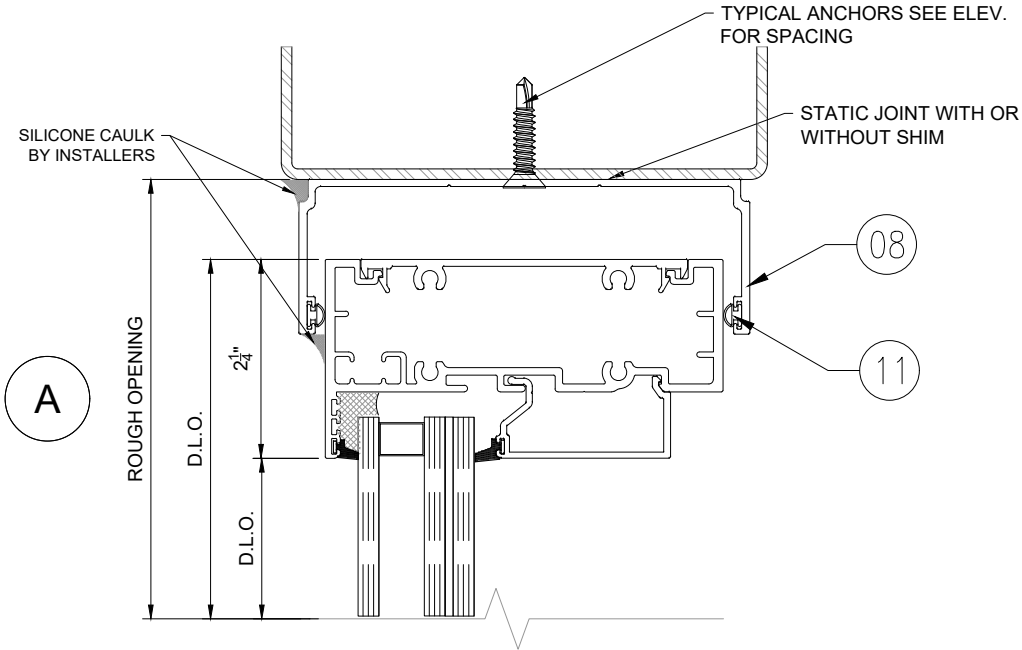
"450 SERIES"
ALUM. STOREFRONT SYSTEM
(L.M.I. & S.M.I.)

PRODUCT APPROVAL #:
FL #46902.1

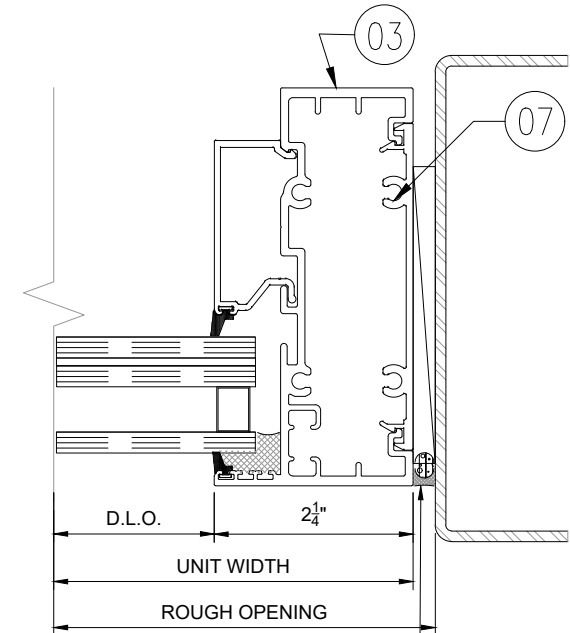
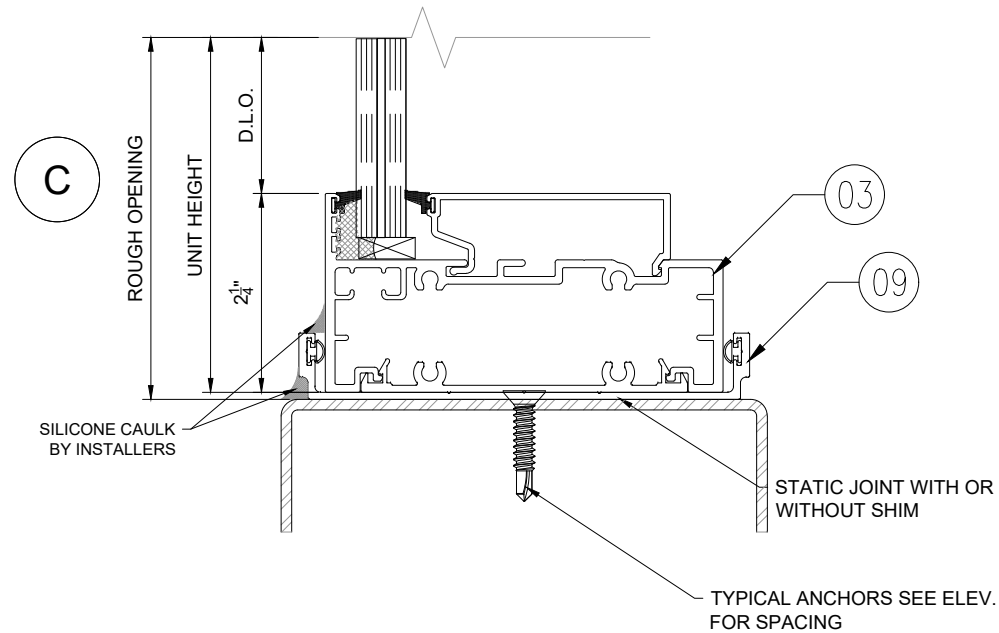
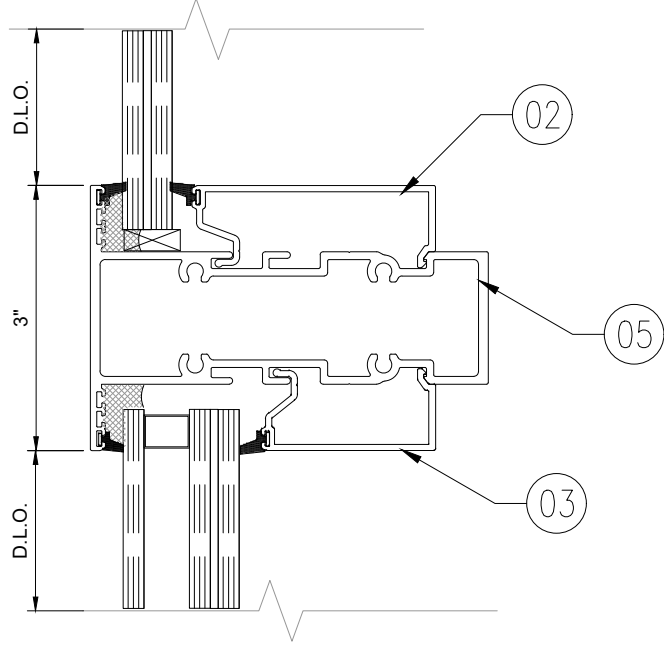
SCALE: NOTED
DATE: 07/09/2026
DWG NO. CHGL-450 SF-2026

SHEET No:
06 OF 11

NOTE:
SHIM SPACE AT HEAD AND SILL CAN
BE UP TO 1/4" WITHOUT REQUIRING
ADDITIONAL ENGINEERING.



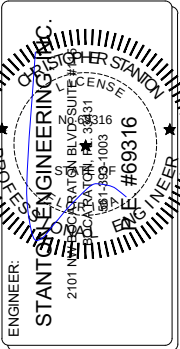
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SILICONE SEALANT DOWSIL 790 OR EQUAL
NOTE:
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A FLORIDA LICENSED ENGINEER FOR
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STEEL **OPTION 1**

REVISIONS:		DESCRIPTION:
NO.	DATE	



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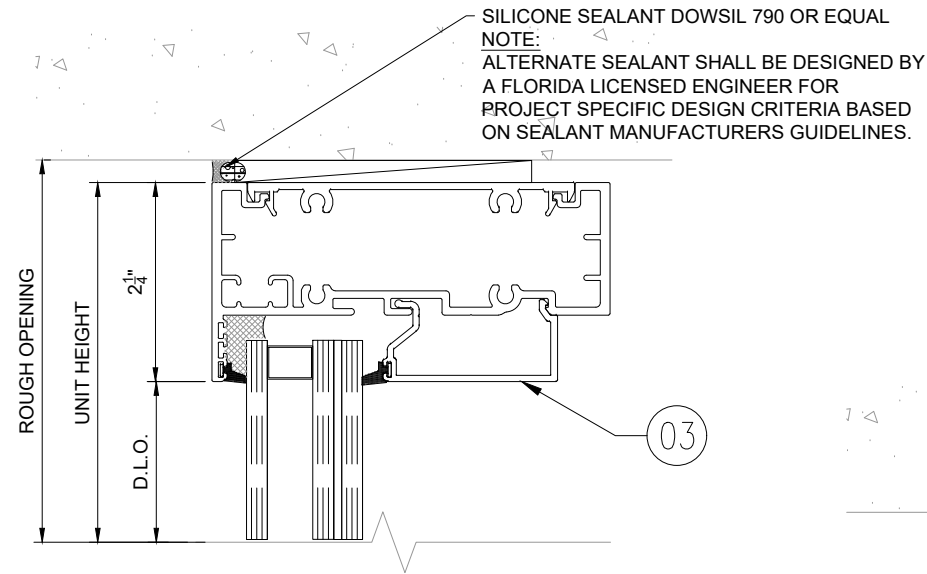
PRODUCT: **"450 SERIES"**
ALUM. STOREFRONT SYSTEM
(L.M.I. & S.M.I.)

PRODUCT APPROVAL #:
FL #46902.1

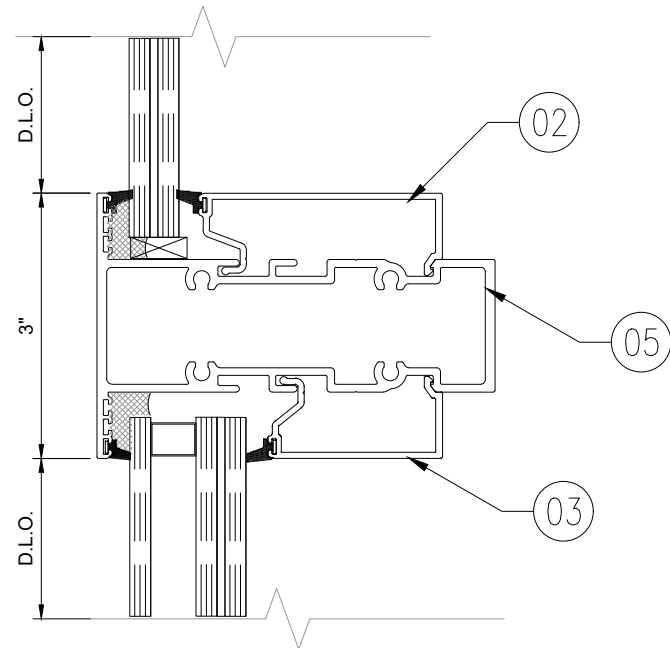
SCALE: NOTED
DATE: 07/09/2026
DWG NO. CHGL-450 SF-2026

SHEET No:
07 OF 11

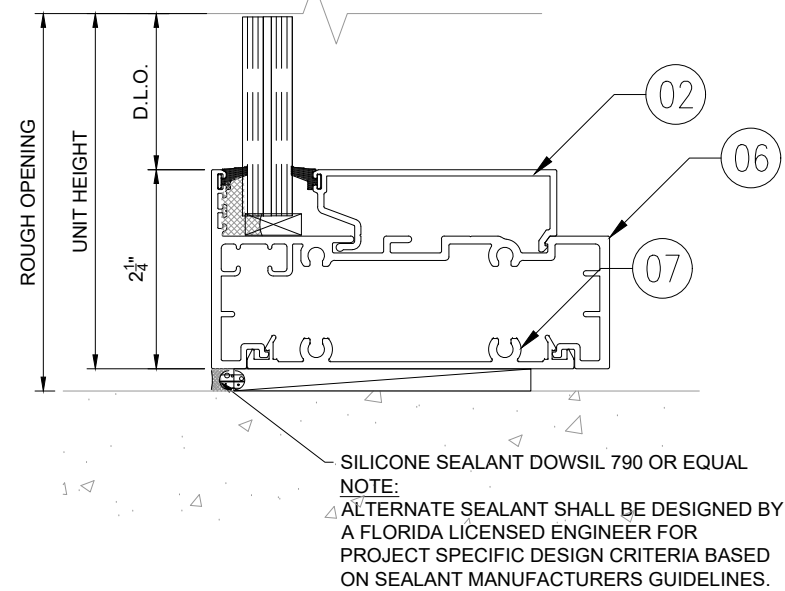
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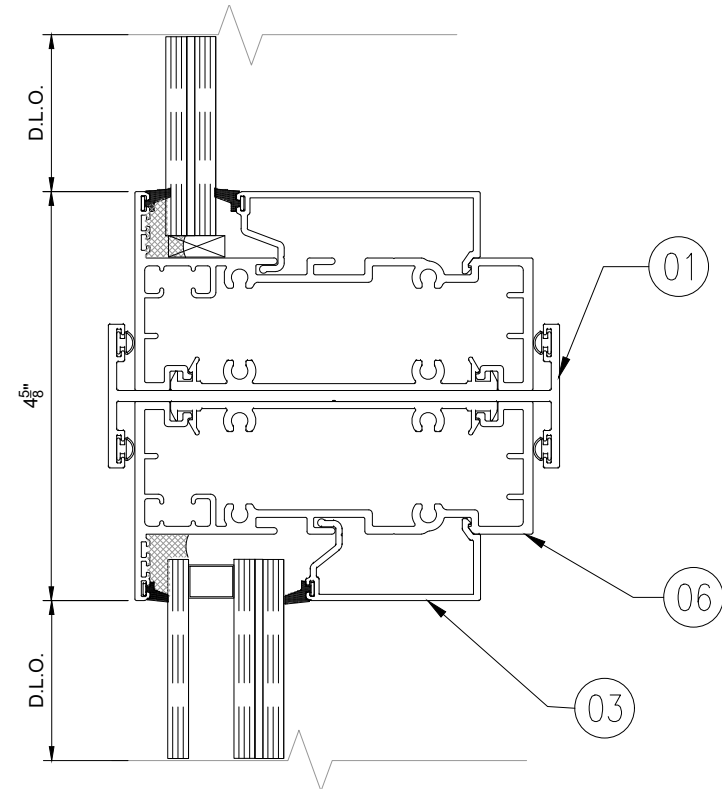
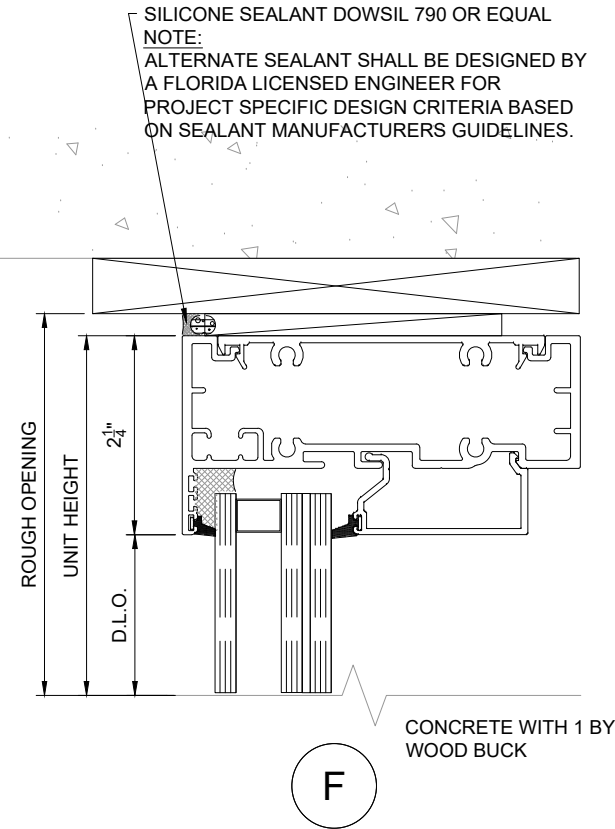
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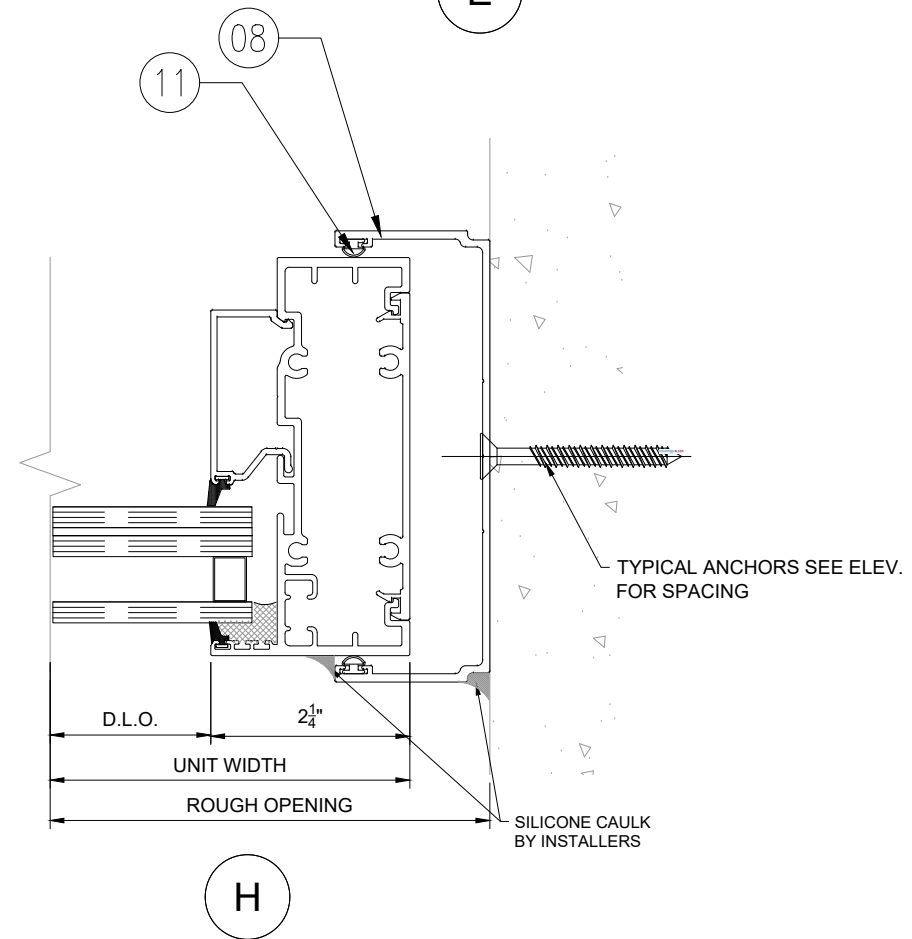
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NOTE:
SHIM SPACE AT JAMBS CAN BE UP TO
1/4" WITHOUT REQUIRING ADDITIONAL
ENGINEERING.



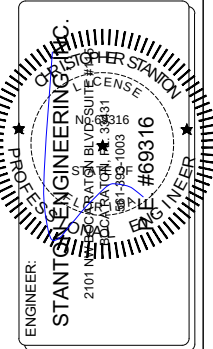
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CONCRETE OPTION 2

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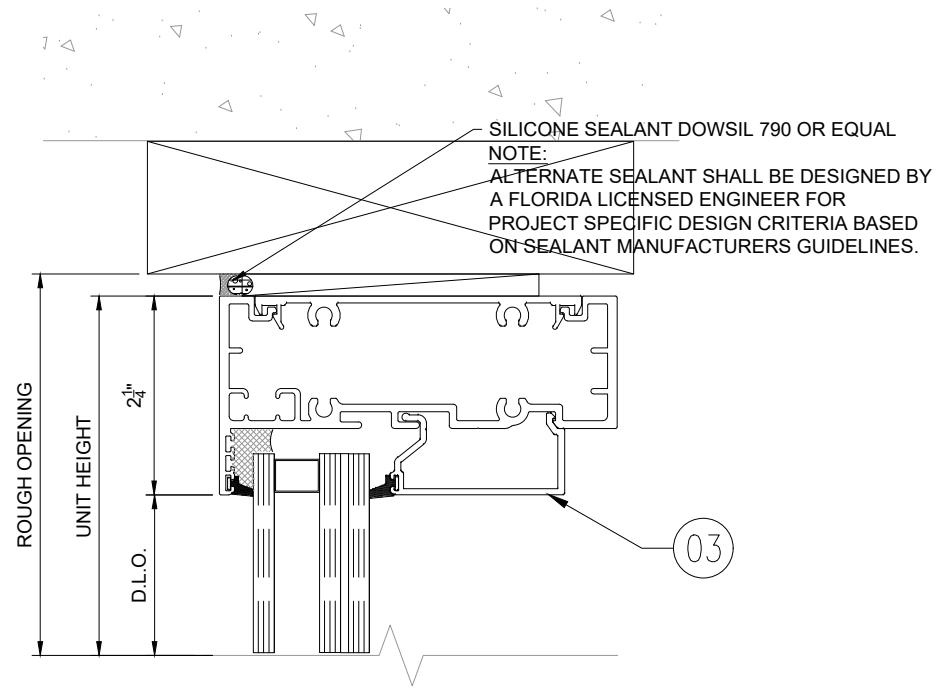
PRODUCT: **"450 SERIES"**
ALUM. STOREFRONT SYSTEM
(L.M.I. & S.M.I.)

PRODUCT APPROVAL #:
FL #46902.1

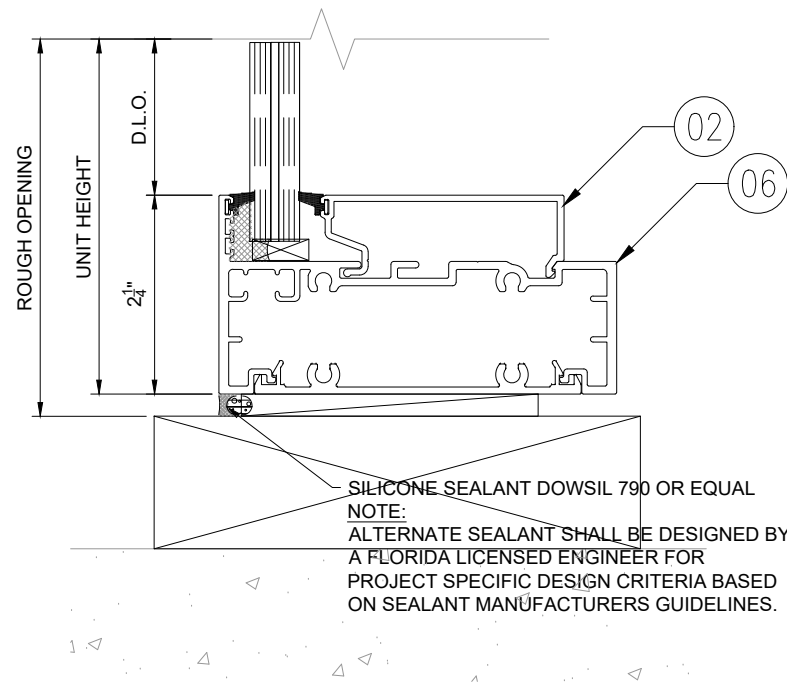
SCALE: **NOTED**
DATE: **07/09/2026**
DWG NO.: **CHGL-450 SF-2026**

SHEET No.:
08 OF 11

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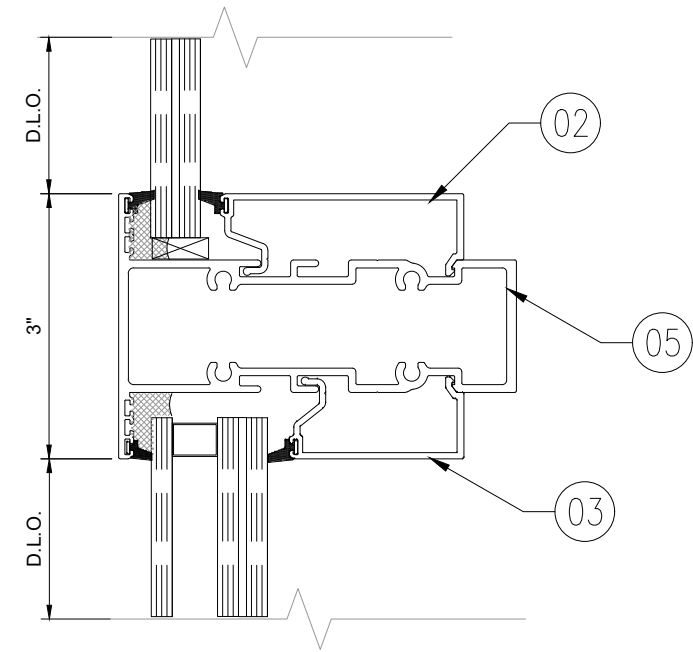


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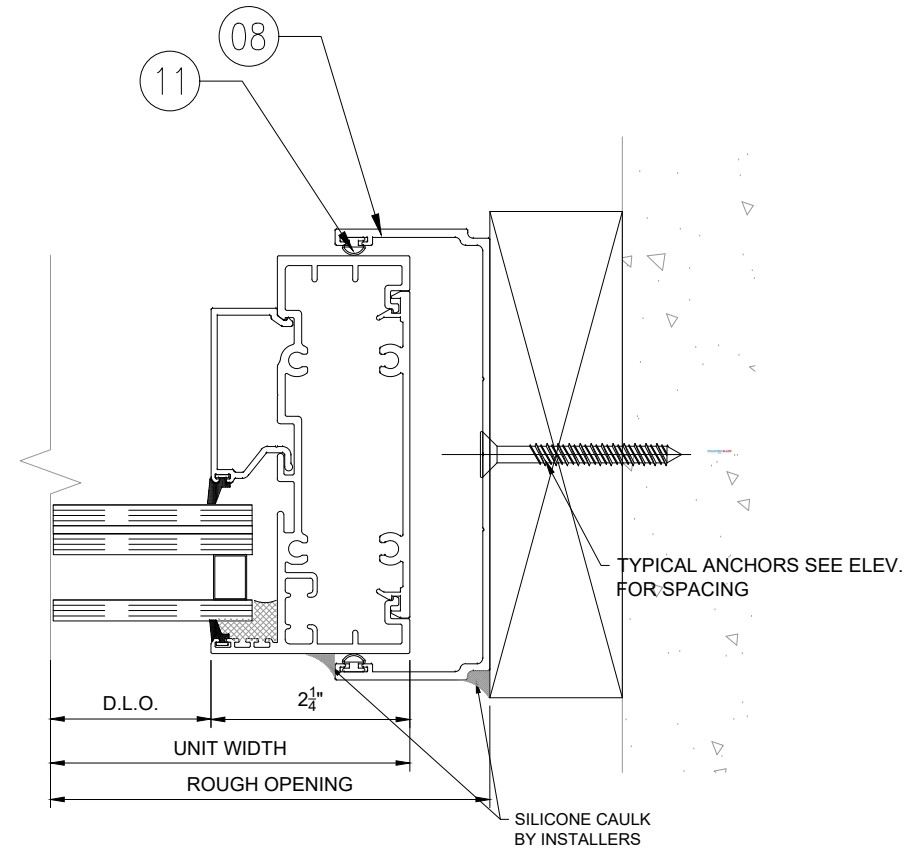


NOTE:
SHIM SPACE AT JAMBS CAN BE UP TO
1/4" WITHOUT REQUIRING ADDITIONAL
ENGINEERING.

B



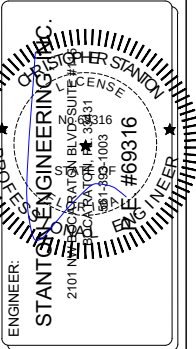
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WOOD

OPTION 2

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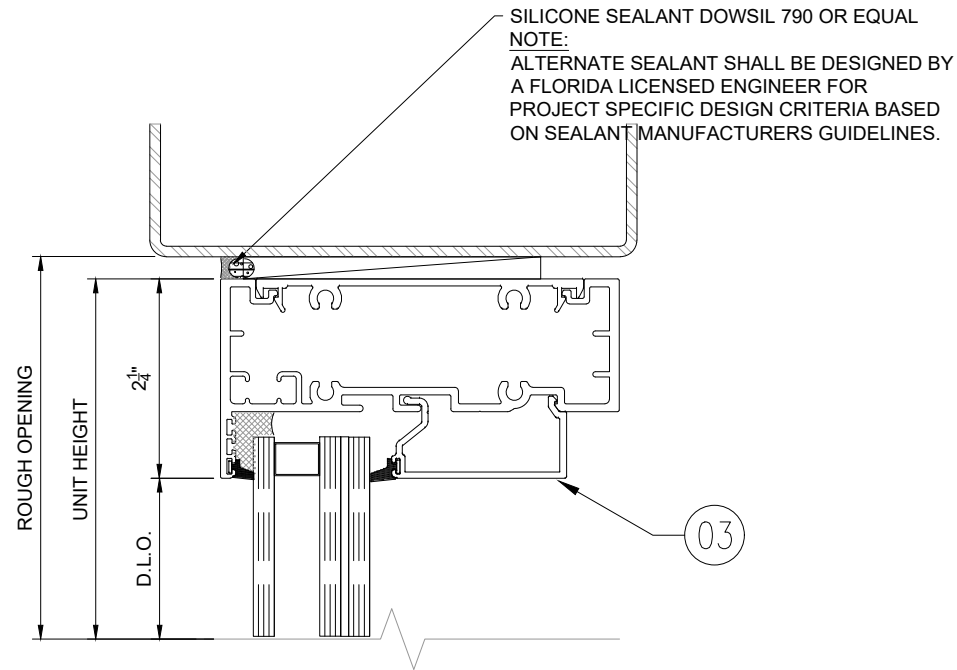
PRODUCT: **"450 SERIES"**
ALUM. STOREFRONT SYSTEM
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FL #46902.1

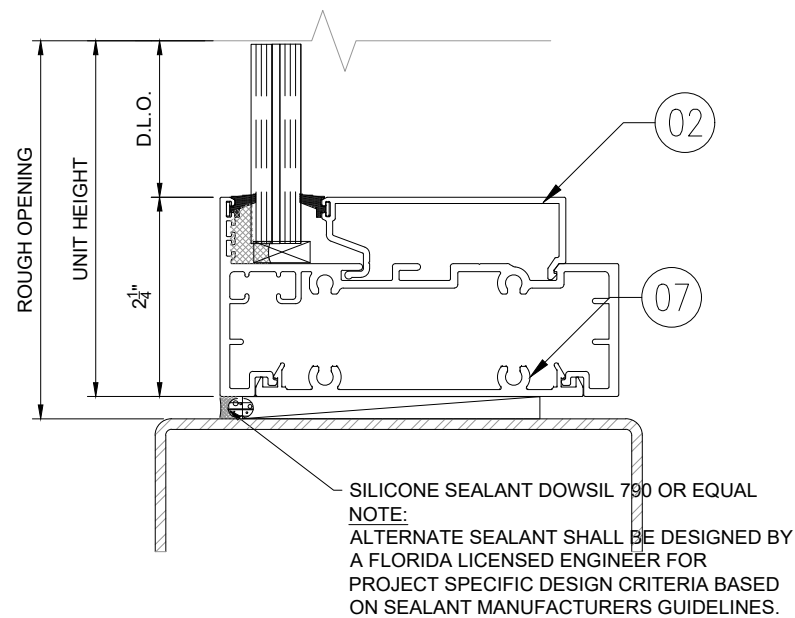
SCALE: NOTED
DATE: 07/09/2026
DWG NO. CHGL-450 SF-2026

SHEET No:
09 OF 11

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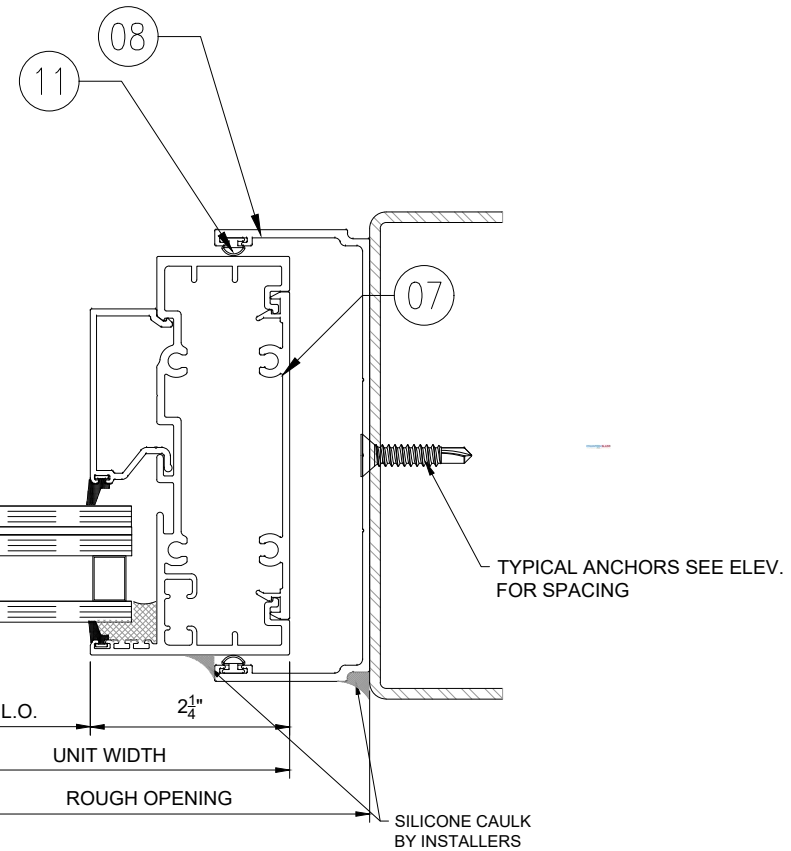
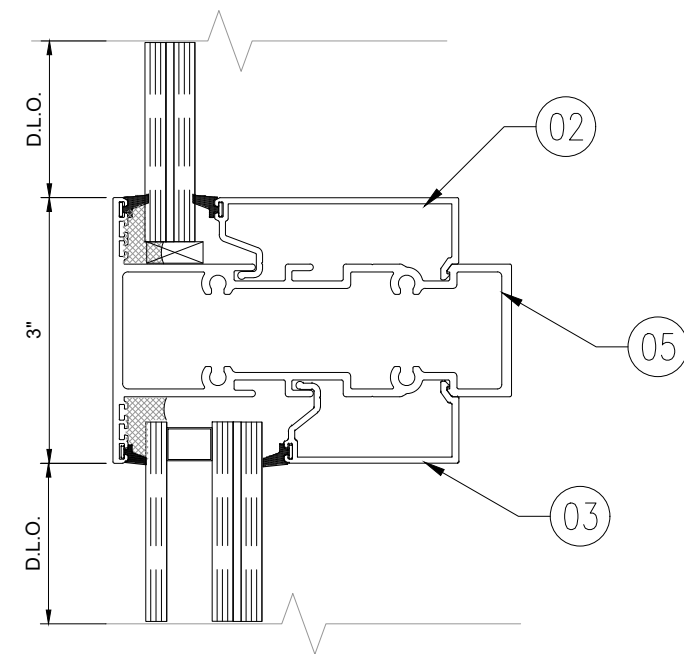
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NOTE:
SHIM SPACE AT JAMBS CAN BE UP TO
1/4" WITHOUT REQUIRING ADDITIONAL
ENGINEERING.

STEEL

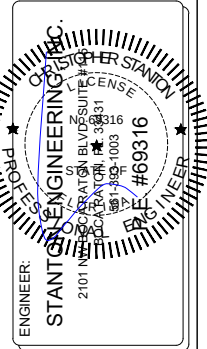
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OPTION 2

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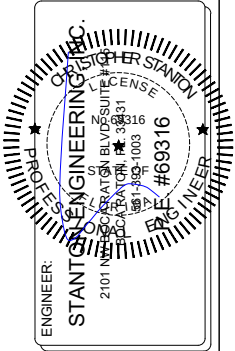
SCALE: NOTED
DATE: 07/09/2026
DWG NO.: CHGL-450 SF-2026

SHEET No:
10 OF 11

BILL OF MATERIALS				
NO.	NO.	DESCRIPTION	MATERIAL	MANUFACTURER
01	CHGL-25	VERTICAL H MULLION	ALLOY 6063-T6	CHAMPION GLASS
02	CHGL-27	GLASS STOP FOR 9/16 GLASS	ALLOY 6063-T6	CHAMPION GLASS
03	CHGL-28	GLASS STOP FOR 1-5/16 GLASS	ALLOY 6063-T6	CHAMPION GLASS
04	CHGL-29	GLASS STOP FOR 1 GLASS	ALLOY 6063-T6	CHAMPION GLASS
05	CHGL-30	HORIZONTAL MULLION W/3 VINYL SLOTS	ALLOY 6063-T6	CHAMPION GLASS
05.1	CHGL-30	HORIZONTAL MULLION W/1 VINYL SLOT	ALLOY 6063-T6	CHAMPION GLASS
06	CHGL-31	HEAD/SILL/JAMB	ALLOY 6063-T6	CHAMPION GLASS
07	CHGL-32	SNAP-IN	ALLOY 6063-T6	CHAMPION GLASS
08	CHGL-9	HEAD RECEPTOR (PATENT # 11,414,914 B2)	ALLOY 6063-T6	CHAMPION GLASS
09	CHGL-21	SILL RECEPTOR (PATENT # 11,414,914 B2)	ALLOY 6063-T6	CHAMPION GLASS
10	CHGL-G33	GLAZING VINYL	SANTOPRENE_PROPOLENE	MELTPPOINT
11	CHGL-G36	RECEPTOR VINYL	TPV_PROPOLENE	MELTPPOINT
12	CHGL-S34	ASSEMBLY SCREWS	ST. STEEL	12X1.5
13	CHGL-SB35	SETTING BLOCKS	TPV	.25 X 1.25 X 4
14	-	983 DOW CORNING	-	-

NOTE:
THE RECEPTORS AND INSTALLATION PROCESS IS COVERED UNDER THE PATENT #11,414,914 B2

REVISIONS:		DESCRIPTION:	
NO.	DATE	NO.	DATE



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FL #46902.1

SCALE: NOTED

DATE: 07/09/2026

DWG NO: CHGL-450 SF-2026

SHEET No:

11 OF 11