

SERIES SMI-245 ALUMINUM STOREFRONT SYSTEM.

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH "ALDORA ALUMINUM & GLASS PRODUCTS" APPROVED DOOR PRODUCTS. LOWER DESIGN PRESSURE FROM STOREFRONT OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

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

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

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

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

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

INSTRUCTIONS:

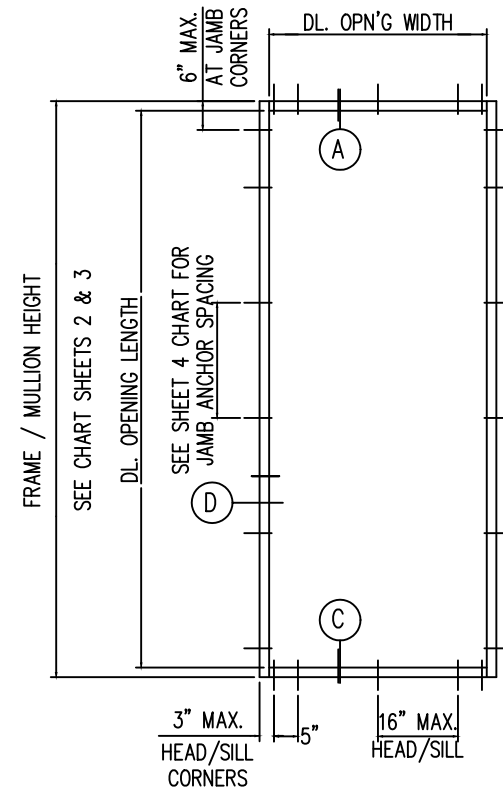
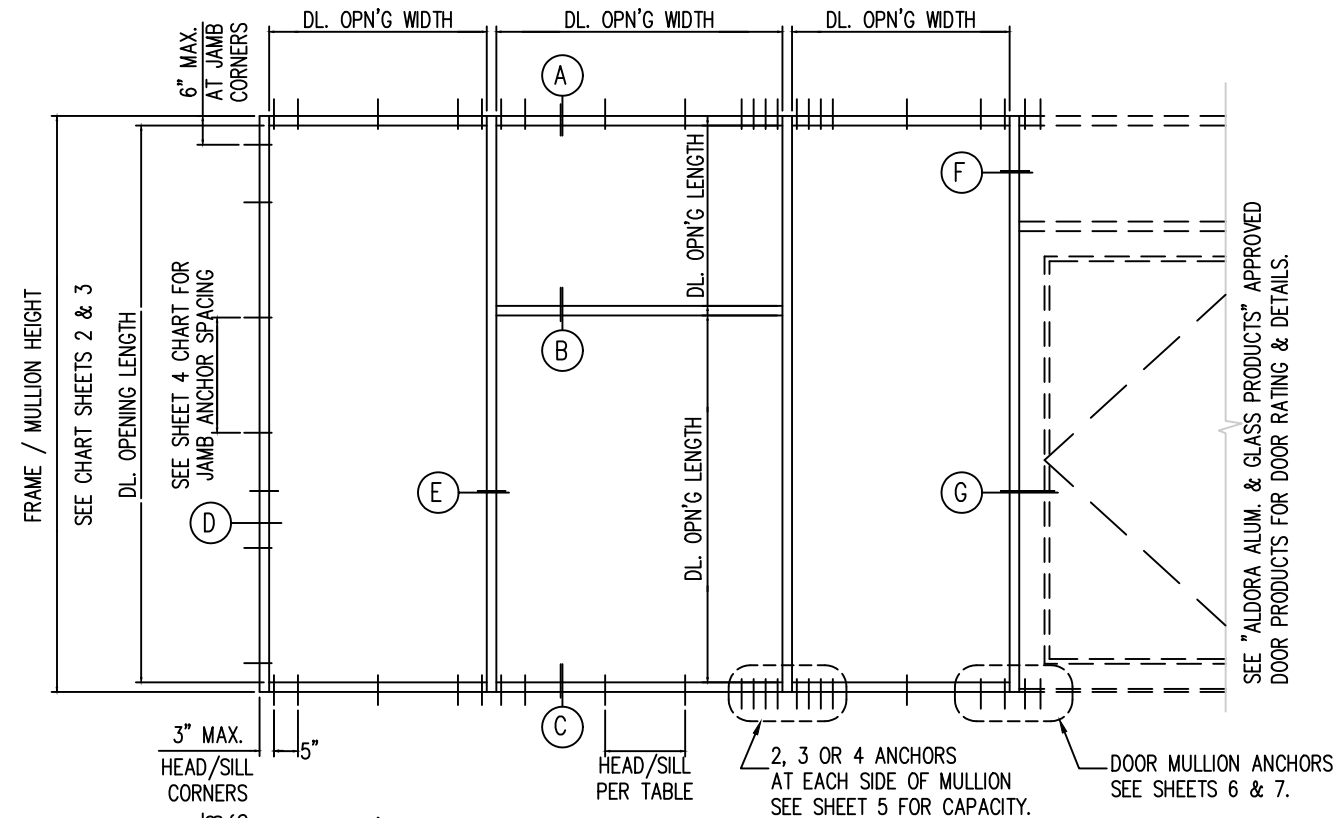
USE CHARTS AS FOLLOWS

STEP 1.- DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON THE WIND VELOCITY, BUILDING HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 2.- CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 2 & 3 FOR STOREFRONT MULLION AND SHEETS 5 & 6 FOR DOOR MULLION. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

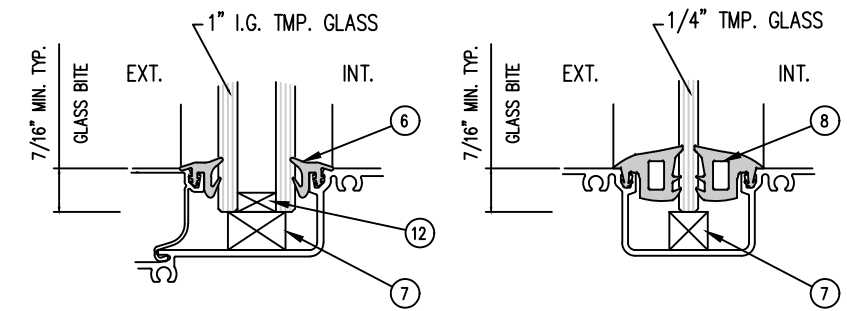
STEP 3.- USING CHART ON SHEET 4 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

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



TYPICAL ELEVATIONS

DESIGN PRESSURES:	
MULLIONS -	SEE CHARTS ON PAGES 2, 3, 5, & 6.
FRAME ANCHORS -	SEE CHART ON PAGE 4.
THIS SYSTEM IS NOT RATED FOR IMPACT.	
INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS. INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA MUST MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.	



GLASS TYPE -G1
 1" INSULATED TEMPERED GLASS
 1/4" TEMPERED -
 1/2" AIRSPACE -
 1/4" TEMPERED

GLASS TYPE -G2
 1/4" TEMPERED GLASS

GLAZING DETAILS

GLASS TYPES G1 & G2 ARE APPROVED FOR ALL MULLION CONFIGURATIONS SHOWN ON SHEETS 2-5.

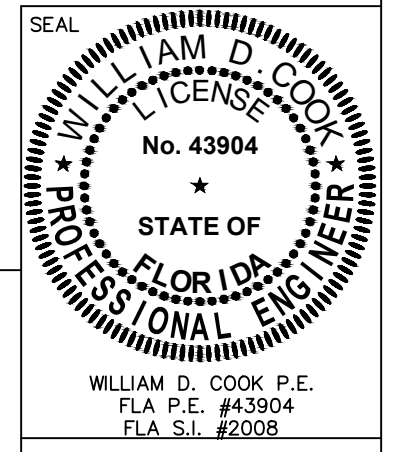
ANCHOR TYPE	DESIGN PRESSURE (PSF)	MAX SPACING
A, B, C	<60	24" MAX
	>60	16" MAX



4250 CORAL RIDGE DRIVE
 CORAL SPRINGS, FL 33065
 PHONE: 954-784-6900
 FAX: 954-688-9816

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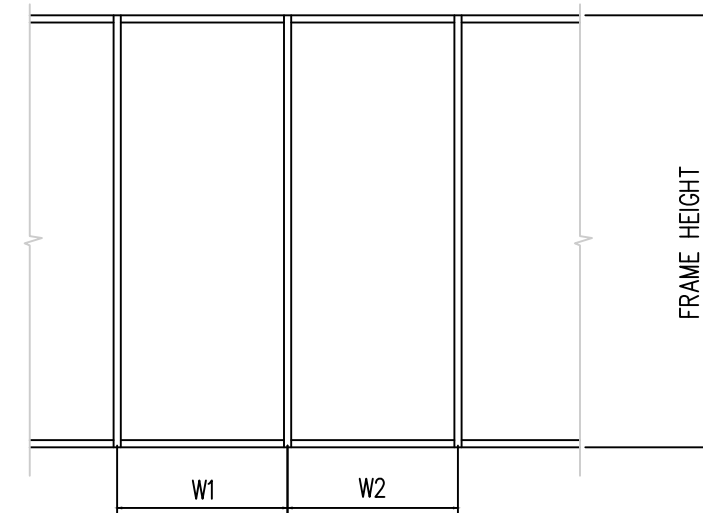
200 SOUTH PARK ROAD SUITE #350
 HOLLYWOOD, FLORIDA 33021
 TEL: (954) 772-4624
 CERT. OF AUTH. #00009124



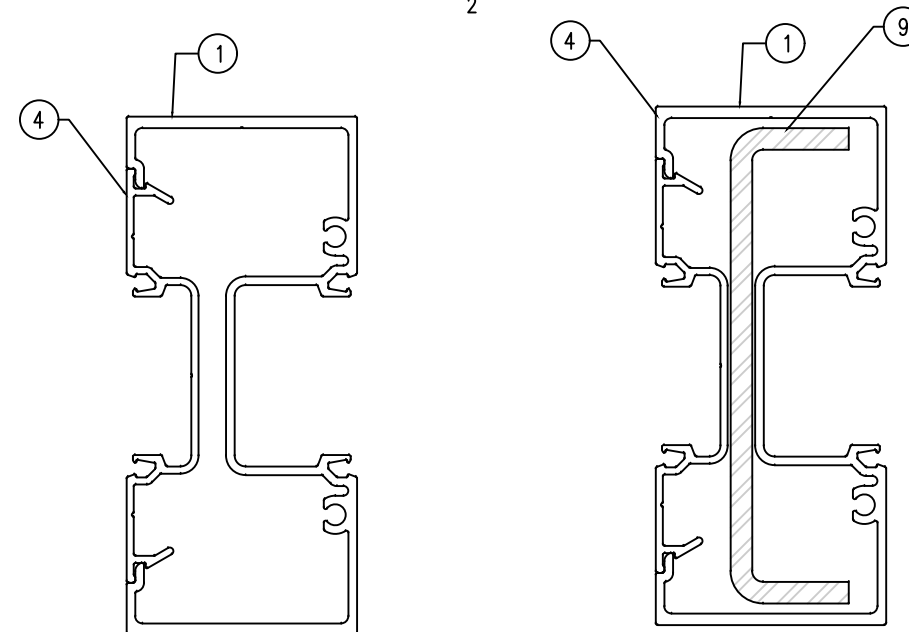
PROJECT NAME: SMI-245 NON-IMPACT SERIES STOREFRONT SYSTEM		
DRAWING NUMBER: SMI-245-PA-1	DRAW BY: M.G.	PRODUCT APPROVAL NO.: FL 35263.1
SCALE:	DATE: 05/05/2025	

MULLION LOAD CAPACITY – PSF WITHOUT INTERMEDIATE HORIZONTALS						
NOMINAL DIMS.		WITHOUT REINFORCING		WITH REINFORCING		
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	
24"	66"	80	120	80	120	
30"		80	120	80	120	
36"		80	120	80	120	
42"		80	120	80	120	
48"		80	120	80	120	
54"		80	120	80	120	
60"		80	120	80	120	
66"		80	120	80	120	
72"		80	120	80	120	
24"		72"	80	120	80	120
30"	80		120	80	120	
36"	80		120	80	120	
42"	80		106	80	120	
48"	80		96.5	80	120	
54"	80		89.9	80	120	
60"	80		85.5	80	120	
66"	80		83.0	80	120	
72"	80		82.1	80	120	
24"	78"		80	120	80	120
30"		80	120	80	120	
36"		80	100	80	120	
42"		80	88.5	80	120	
48"		80	80.1	80	120	
54"		74.0	74.0	80	120	
60"		69.8	69.8	80	116	
66"		66.8	66.8	80	111	
72"		65.2	65.2	80	109	
24"		84"	80	120	80	120
30"	80		101	80	120	
36"	80		85.7	80	120	
42"	75.2		75.2	80	120	
48"	67.7		67.7	80	113	
54"	62.2		62.2	80	104	
60"	58.2		58.2	80	97.0	
66"	55.3		55.3	80	92.1	
24"	90"		80	108	80	120
30"			80	87.4	80	120
36"		74.0	74.0	80	120	
42"		64.8	64.8	80	108	
48"		58.1	58.1	80	96.8	
54"		53.1	53.1	80	88.5	
60"		49.4	49.4	80	82.3	

MULLION LOAD CAPACITY – PSF WITHOUT INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		WITHOUT REINFORCING		WITH REINFORCING			
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)		
24"	96"	80.0	94.4	80	120		
30"		76.4	76.4	80	120		
36"		64.7	64.7	80	108		
42"		56.4	56.4	80	94		
48"		50.4	50.4	80	84		
54"		45.9	45.9	76.5	76.5		
60"		42.5	42.5	70.8	70.8		
24"		102"	80.0	83.4	80	120	
30"			67.4	67.4	80	112	
36"			56.9	56.9	80	94.9	
42"	49.6		49.6	80	82.7		
48"	44.2		44.2	73.7	73.7		
54"	40.1		40.1	66.9	66.9		
24"	108"		74.3	74.3	80	120	
30"			59.9	59.9	80	99.9	
36"			50.6	50.6	80	84.3	
42"			44.0	44.0	73.3	73.3	
48"		39.1	39.1	65.2	65.2		
24"		114"	66.5	66.5	80	111	
30"			53.7	53.7	80	89.5	
36"			45.2	45.2	75.3	75.3	
42"			39.2	39.2	65.4	65.4	
48"			34.8	34.8	58	58	
24"	120"		59.9	59.9	80	99.9	
30"			48.3	48.3	80	80.5	
36"			40.7	40.7	67.8	67.8	
42"			35.2	35.2	58.7	58.7	
48"			31.2	31.2	52.1	52.1	
24"		126"	51.2	51.2	80	99.9	
30"			41.2	41.2	80	80.5	
36"			34.6	34.6	67.8	67.8	
42"			30.4	30.4	58.7	58.7	
24"			132"	45.3	45.3	75.6	75.6
30"	36.5			36.5	60.8	60.8	
36"	30.6			30.6	51.1	51.1	
42"	26.5			26.5	44.2	44.2	
24"	138"			39.4	39.4	65.6	65.6
30"				31.7	31.7	52.8	52.8
36"		26.6		26.6	44.3	44.3	
24"		144"		34.7	34.7	57.8	57.8
30"				27.9	27.9	46.5	46.5
36"				23.4	23.4	39	39



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



MULLION
W / O REINFORCING

MULLION
W / REINFORCING

1x IN ⁴	Sx IN ³
3.421	1.52

	1x IN ⁴	Sx IN ³
ALUMINUM	3.421	1.52
STEEL	2.260	1.064
TOTAL 1x ALUM. + 1x STL. X 2.9	9.975	

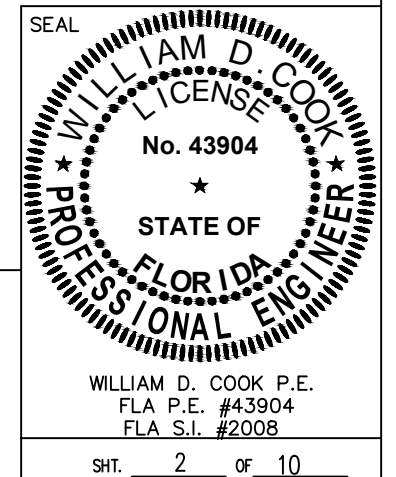
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	SCALE:	DATE: 05/05/2025



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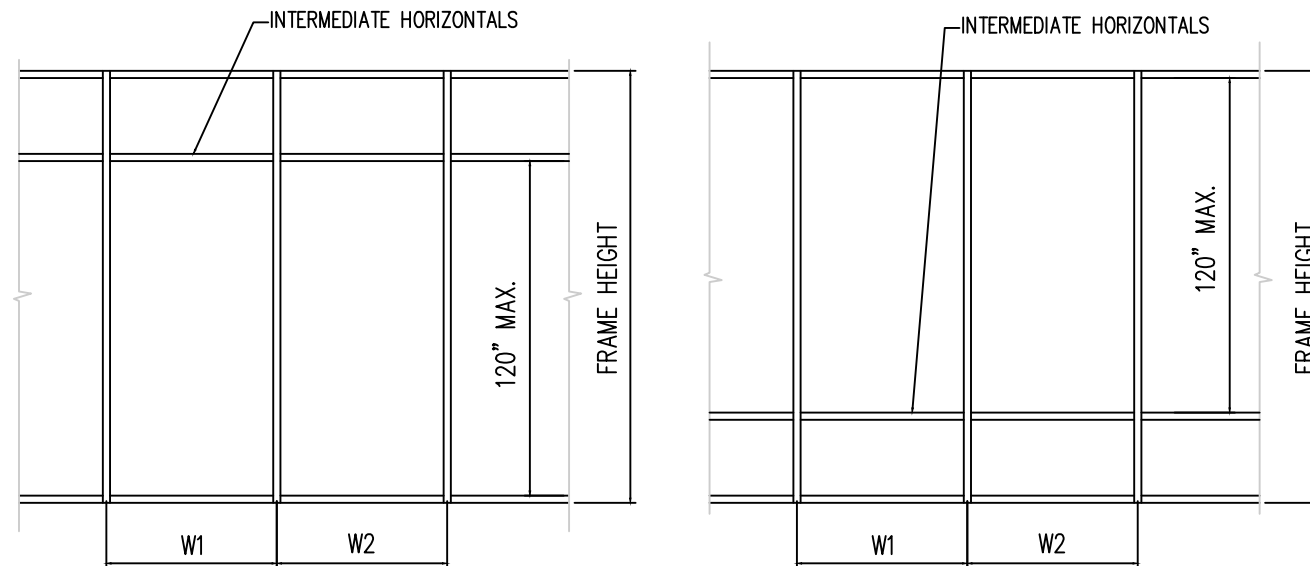
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HOLLYWOOD, FLORIDA 33021
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CERT. OF AUTH. #00009124



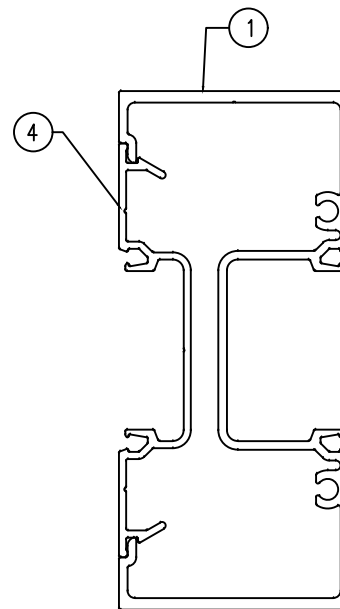
MULLION LOAD CAPACITY – PSF WITH INTERMEDIATE HORIZONTALS						
NOMINAL DIMS.		WITHOUT REINFORCING		WITH REINFORCING		
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	
24"	60"	80	120	80	120	
30"		80	120	80	120	
36"		80	120	80	120	
42"		80	114	80	120	
48"		80	99.4	80	120	
54"		80	88.4	80	120	
60"		80	79.5	80	120	
66"		80	72.3	80	117	
72"		66.3	66.3	80	120	
24"		66"	80	120	80	120
30"	80		120	80	120	
36"	80		110	80	120	
42"	80		93.9	80	120	
48"	80		82.2	80	120	
54"	73		73	80	120	
60"	65.7		65.7	80	120	
66"	59.8		59.8	80	120	
72"	65.2		65.2	80	118	
24"	72"		80	120	80	120
30"		80	120	80	120	
36"		80	110	80	120	
42"		80	93.9	80	120	
48"		80	82.2	80	120	
54"		73	73	80	120	
60"		65.7	65.7	80	109	
66"		59.8	59.8	80	99.6	
72"		54.8	54.8	80	91.3	
24"		78"	80	120	80	120
30"	80		112	80	120	
36"	80		93.3	80	120	
42"	80		80	80	120	
48"	70		70	80	117	
54"	62.3		62.3	80	104	
60"	56		56	80	93.4	
66"	50.9		50.9	80	84.9	
72"	46.7		46.7	77.8	77.8	
24"	84"		80	120	80	120
30"		80	96.6	80	120	
36"		80	40.9	80	120	
42"		69	69	80	115	
48"		60.4	60.4	80	100	
54"		53.7	53.7	80	89.4	
60"		48.36	48.6	80	80.5	
66"		43.9	43.9	73.2	73.2	
24"		90"	80	108	80	120
30"			80	87.4	80	120
36"	74		74	80	120	
42"	64.8		64.8	80	108	
48"	58.1		58.1	80	96.8	
54"	53.1		53.1	80	88.5	
60"	49.4		49.4	80	82.3	

MULLION LOAD CAPACITY – PSF WITH INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		WITHOUT REINFORCING		WITH REINFORCING			
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)		
24"	96"	80	94.4	80	120		
30"		76.4	76.4	80	120		
36"		64.7	64.7	80	108		
42"		56.4	56.4	80	94		
48"		50.4	50.4	80	84		
54"		45.9	45.9	76.5	76.5		
60"		42.5	42.5	70.8	70.8		
24"		102"	80	83.4	80	120	
30"			67.4	67.4	80	112	
36"			56.9	56.9	80	94.9	
42"	49.6		49.6	80	82.7		
48"	44.2		44.2	73.7	73.7		
54"	40.1		40.1	66.9	66.9		
24"	108"		74.3	74.3	80	120	
30"			59.9	59.9	80	99.9	
36"			50.6	50.6	80	84.3	
42"			44	44	73.3	73.3	
48"		39.1	39.1	65.2	65.2		
24"		114"	66.5	66.5	80	111	
30"			53.7	53.7	80	89.5	
36"			45.2	45.2	75.3	75.3	
42"			39.2	39.2	65.4	65.4	
48"			34.8	34.8	58	58	
24"	120"		59.9	59.9	80	99.9	
30"			48.3	48.3	80	80.5	
36"			40.7	40.7	67.8	67.8	
42"			35.2	35.2	58.7	58.7	
48"			31.2	31.2	52.1	52.1	
24"		126"	51.2	51.2	80	99.9	
30"			41.2	41.2	80	80.5	
36"			34.6	34.6	67.8	67.8	
42"			30.4	30.4	58.7	58.7	
24"			132"	45.3	45.3	75.6	75.6
30"	36.5			36.5	60.8	60.8	
36"	30.6			30.6	51.1	51.1	
42"	26.5			26.5	44.2	44.2	
24"	138"			39.4	39.4	65.6	65.6
30"				31.7	31.7	52.8	52.8
36"		26.6		26.6	44.3	44.3	
24"		144"		34.7	34.7	57.8	57.8
30"				27.9	27.9	46.5	46.5
36"				23.4	23.4	39	39



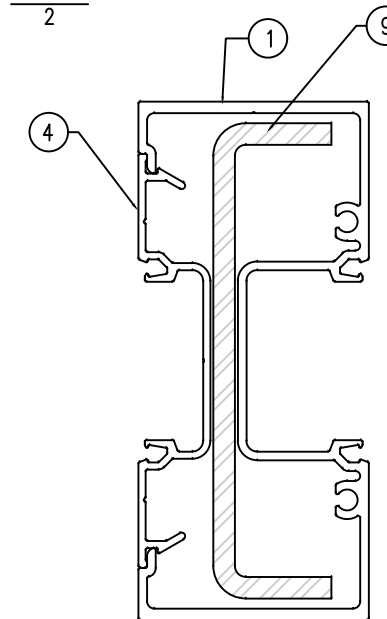
MAX. SPACING BETWEEN HORIZONTALS ≤ 120 INCHES

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



MULLION
W / O REINFORCING

Ix IN ⁴	Sx IN ³
3.421	1.52



MULLION
W / REINFORCING

	Ix IN ⁴	Sx IN ³
ALUMINUM	3.421	1.52
STEEL	2.260	1.064
TOTAL Ix ALUM. + Ix STL. X 2.9	9.975	

PROJECT NAME:
SMI-245 NON-IMPACT SERIES STOREFRONT SYSTEM

DRAWING NUMBER:
SMI-245-PA-1

DRAW BY:
M.G.
SCALE:

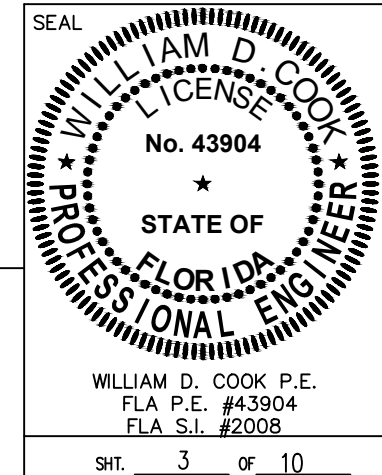
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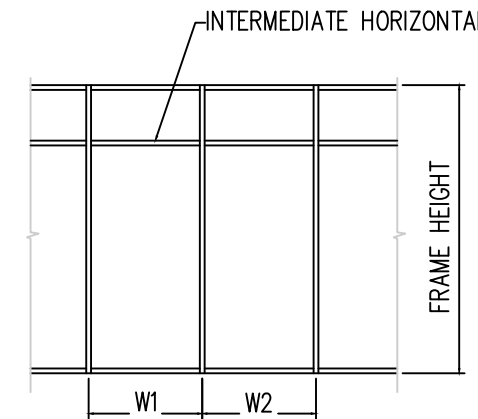
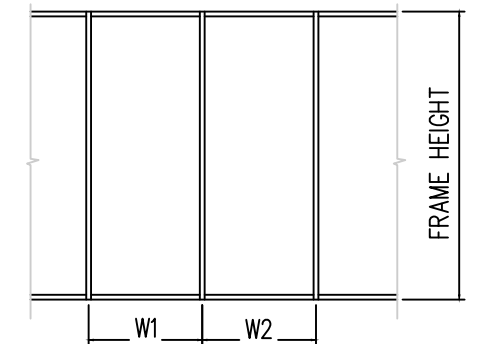
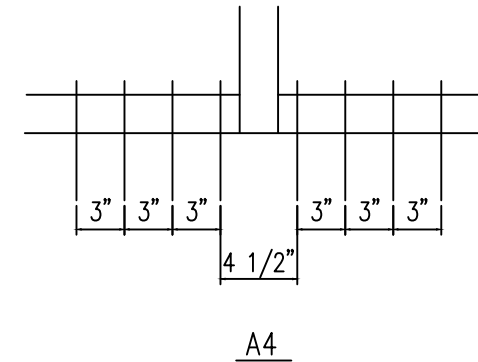
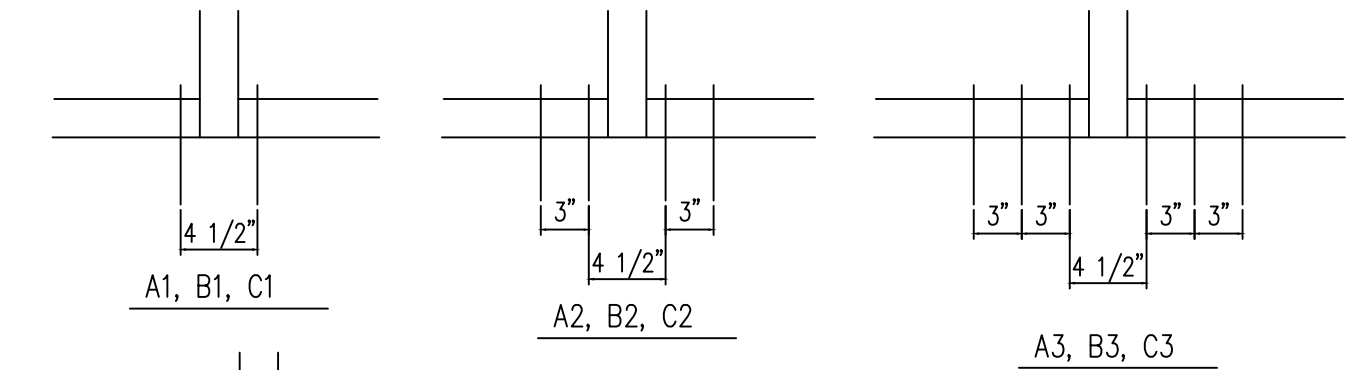
WILLIAM D. COOK P.E.
FLA P.E. #43904
FLA S.I. #2008

SHT. 3 OF 10

ANCHOR LOAD CAPACITY – PSF EXT. (+) & INT. (-)								
NOMINAL DIMS.		ANCHORS TYPE "A"				TYPE "B" & "C"		
WIDTH (W)	FRAME HEIGHT	A1	A2	A3	A4	B1/C1	B2/C2	B3/C3
24"	60"	60	120	120	120	60	120	120
30"		58	115	120	120	60	120	120
36"		49	96.5	120	120	60	120	120
42"		42	82.7	120	120	60	120	120
48"		37	72.4	108	120	60	120	120
54"		33	64.4	96.6	120	60	120	120
60"		29	57.9	86.8	115.8	54	108	120
66"		27	52.6	78.9	105.2	50	98.6	120
72"		25	48.3	72.4	96.6	46	90.4	120
24"		66"	60	120	120	120	60	120
30"	53		105	120	120	60	120	120
36"	44		87.7	120	120	60	120	120
42"	38		75.2	112.8	120	60	120	120
48"	33		65.8	98.7	120	60	120	120
54"	30		58.5	87.7	117	55	109.5	120
60"	27		52.6	78.9	105.2	50	98.6	120
66"	24		47.9	71.8	95.8	45	89.6	120
72"	22		43.9	65.8	87.8	42	82.2	118
24"	72"		60	120	120	120	60	120
30"		49	96.5	120	120	60	120	120
36"		41	80.4	120	120	60	120	120
42"		35	68.9	103.3	120	60	120	120
48"		31	60.3	90.4	120	57	113	120
54"		27	53.6	80.4	107.2	51	100.4	120
60"		25	48.2	72.4	96.4	46	90.4	120
66"		22	43.9	65.8	87.6	42	82.2	120
72"		21	40.2	60.3	80.4	38	75.3	120
24"		78"	56	111.4	120	120	60	120
30"	45		89.1	120	120	60	120	120
36"	38		74.2	11.3	120	60	120	120
42"	32		63.6	95.4	120	60	119.2	120
48"	28		55.7	83.5	11.4	53	104.3	120
54"	25		49.5	74.2	99	47	92.7	120
60"	23		44.5	66.7	89	42	83.4	116
66"	21		40.5	60.7	81	38	75.9	111
72"	19		37.1	55.6	74.2	35	69.5	109
24"	84"		52	103.4	120	120	60	120
30"		42	82.7	120	120	60	120	120
36"		35	69	103.5	120	60	120	120
42"		29	56.1	88.6	115	56	110.7	120
48"		26	51.7	77.5	100	49	96.8	113
54"		23	46	69	89.4	44	86.1	104
60"		21	41.4	62.1	80.5	39	77.5	97
66"		19	37.6	56.4	73.2	36	70.4	92.1
72"		17	34.1	51.7	66.3	33	64.3	87.5
24"		90"	49	96.5	120	120	60	120
30"	39		77.2	115.8	120	60	120	120
36"	33		64.3	96.4	120	60	120	120
42"	28		55.2	82.6	108	52	103.3	108
48"	25		48.2	72.3	96.4	46	90.4	96.8
54"	22		42.9	64.3	85.8	41	80.3	88.5
60"	20	38.6	57.9	77.2	37	72.3	82.3	

ANCHOR LOAD CAPACITY – PSF EXT. (+) & INT. (-)									
NOMINAL DIMS.		ANCHORS TYPE "A"				TYPE "B" & "C"			
WIDTH (W)	FRAME HEIGHT	A1	A2	A3	A4	B1/C1	B2/C2	B3/C3	
24"	96"	46	90.5	120	120	60	120	120	
30"		37	72.4	108.6	120	60	120	120	
36"		31	60.3	90.4	108	54	108	108	
42"		26	51.7	77.5	94	47	94	94	
48"		23	45.2	67.8	84	42	84	84	
54"		21	40.2	60.3	76.5	38	75.3	76.5	
60"		19	36.2	54.3	70.8	34	67.8	70.8	
24"		102"	43	85.2	120	120	60	120	120
30"			35	68.1	102.2	112	56	112	112
36"			29	57.8	86.7	94.9	48	94.9	94.9
42"	25		48.7	73.1	82.7	42	82.7	82.7	
48"	22		42.6	63.9	73.7	37	73.7	73.7	
54"	19		37.8	56.7	66.9	34	66.9	66.9	
24"	108"	41	80.4	120	120	60	120	120	
30"		33	64.3	96.4	99.9	50	99.9	99.9	
36"		27	53.6	80.4	84.3	43	84.3	84.3	
42"		23	46	69	73.3	37	73.3	73.3	
48"		21	40.2	60.3	65.2	33	65.2	65.2	
54"		19	36.2	54.3	60.3	30	60.3	60.3	
24"	114"	39	76.2	111	111	56	111	111	
30"		31	60.9	89.5	89.5	45	89.5	89.5	
36"		26	50.8	75.3	75.3	38	75.3	75.3	
42"		22	43.5	65.2	65.4	33	65.4	65.4	
48"		20	38.1	57.1	58	29	58	58	
54"		19	37.8	56.7	66.9	34	66.9	66.9	
24"	120"	37	72.4	99.9	99.9	50	99.9	99.9	
30"		29	57.9	80.5	80.5	41	80.5	80.5	
36"		25	48.2	67.8	67.8	34	67.8	67.8	
42"		21	41.4	58.7	58.7	30	58.7	58.7	
48"		19	36.2	52.1	52.1	27	52.1	52.1	
54"		19	37.8	56.7	66.9	34	66.9	66.9	
24"	126"	35	68.9	99.9	99.9	50	99.9	99.9	
30"		28	55.2	80.5	80.5	41	80.5	80.5	
36"		23	46	67.8	67.8	34	67.8	67.8	
42"		20	39.4	58.7	58.7	30	58.7	58.7	
48"		19	36.2	52.1	52.1	27	52.1	52.1	
54"		19	37.8	56.7	66.9	34	66.9	66.9	
24"	132"	33	65.8	75.6	75.6	38	75.6	75.6	
30"		27	52.6	60.8	60.8	31	60.8	60.8	
36"		22	43.9	51.1	51.1	26	51.1	51.1	
42"		19	37.6	44.2	44.2	23	44.2	44.2	
48"		19	37.8	56.7	66.9	34	66.9	66.9	
54"		19	37.8	56.7	66.9	34	66.9	66.9	
24"	138"	32	63.9	65.6	65.6	33	65.6	65.6	
30"		26	50.4	52.8	52.8	27	52.8	52.8	
36"		21	41.9	44.3	44.3	23	44.3	44.3	
42"		21	41.9	44.3	44.3	23	44.3	44.3	
48"		19	37.8	56.7	66.9	34	66.9	66.9	
54"		19	37.8	56.7	66.9	34	66.9	66.9	
24"	144"	29	57.8	57.8	57.8	29	57.8	57.8	
30"		24	46.5	46.5	46.5	24	46.5	46.5	
36"		20	39	39	39	20	39	39	
36"		20	39	39	39	20	39	39	

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



- ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION
- A1 = (1) ANCHORS TYPE "A" AT EACH SIDE OF THE MULLION
 - A2 = (2) ANCHORS TYPE "A" AT EACH SIDE OF THE MULLION
 - A3 = (3) ANCHORS TYPE "A" AT EACH SIDE OF THE MULLION
 - A4 = (4) ANCHORS TYPE "A" AT EACH SIDE OF THE MULLION
 - B1 = (1) ANCHORS TYPE "B" AT EACH SIDE OF THE MULLION
 - B2 = (2) ANCHORS TYPE "B" AT EACH SIDE OF THE MULLION
 - B3 = (3) ANCHORS TYPE "B" AT EACH SIDE OF THE MULLION
 - C1 = (1) ANCHORS TYPE "C" AT EACH SIDE OF THE MULLION
 - C2 = (2) ANCHORS TYPE "C" AT EACH SIDE OF THE MULLION
 - C3 = (3) ANCHORS TYPE "C" AT EACH SIDE OF THE MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

JAMB ANCHOR SPACING CHART			
ANCHOR TYPE	DESIGN PRESSURE (PSF)	WIDTHS ≤ 48" MAX. SPACING (IN.)	WIDTHS > 48" MAX. SPACING (IN.)
A	>30	24	20
	30 TO 50	21	14
	50 TO 80	13	9
	>80	9	6
B	<50	24	24
	50 TO 80	24	18
	>80	17	11
C	<50	24	24
	50 TO 80	24	16
	>80	15	10

PROJECT NAME:
SMI-245 NON-IMPACT SERIES STOREFRONT SYSTEM

DRAWING NUMBER:
SMI-245-PA-1

DRAW BY:
M.G.

SCALE:

PRODUCT APPROVAL NO.:
FL 35263.1

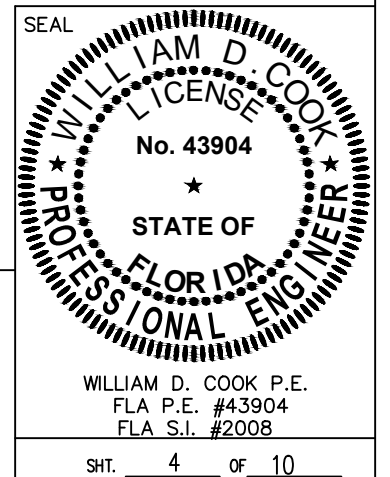
DATE:
05/05/2025



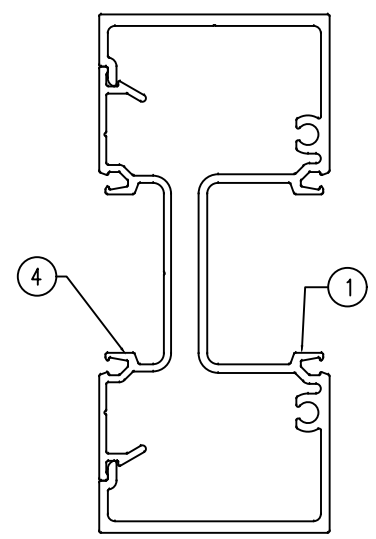
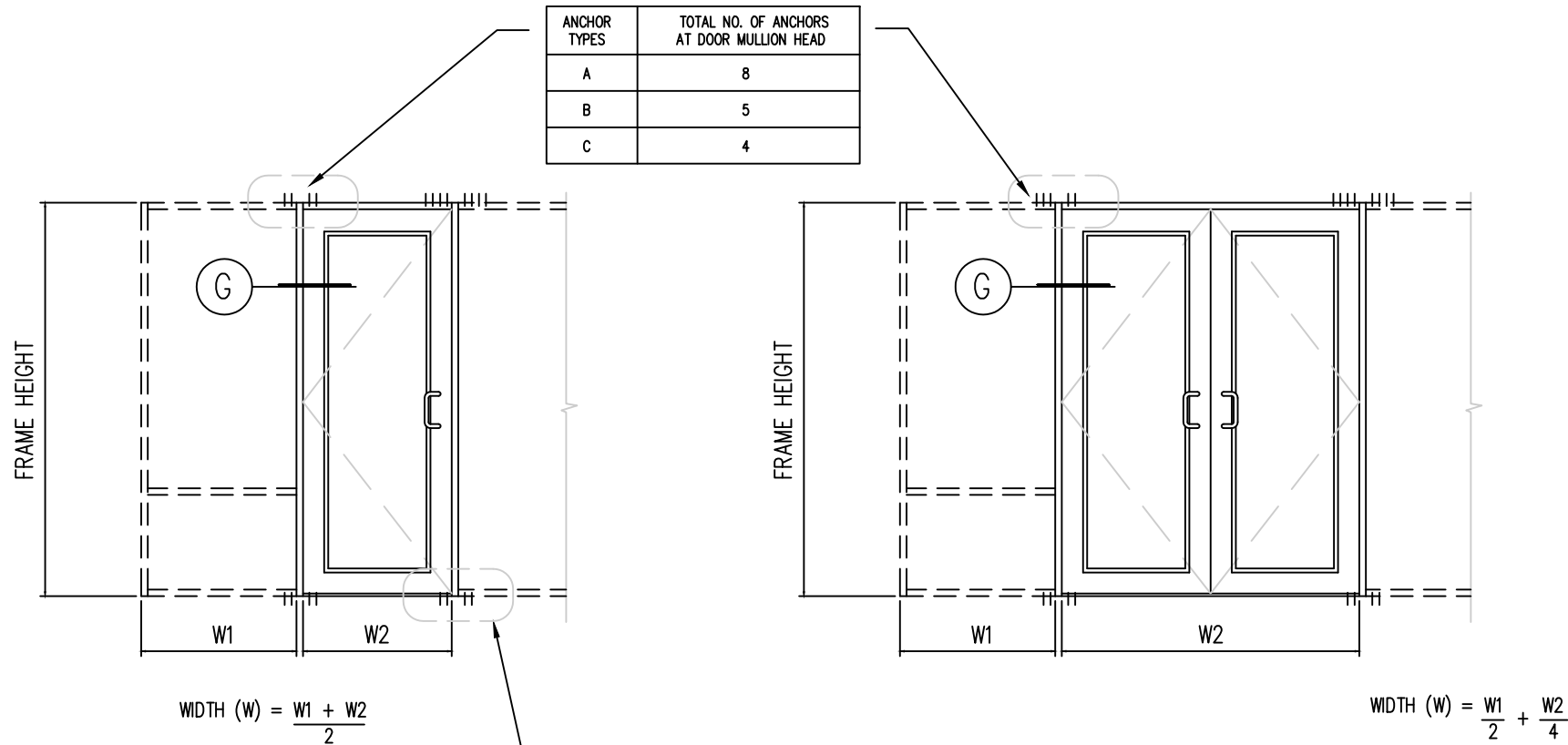
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FAX: 954-688-9816

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TEL: (954) 772-4624
CERT. OF AUTH. #00009124

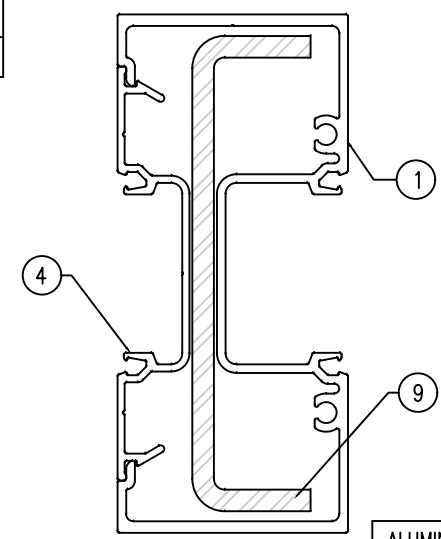


DOOR MULLION LOAD CAPACITY - PSF			
WIDTH (W) INCHES	FRAME HEIGHT INCHES	WITHOUT REINF.	WITH REINF.
		EXT.(+) & INT.(-)	EXT.(+) & INT.(-)
30"	80"	106	120
36"		88.7	120
42"		76.1	120
48"		66.5	111
54"		59.2	98.6
60"	53.2	88.7	
30"	84"	80	120
36"		80	120
42"		69	115
48"		60.4	100
54"		53.7	89.4
60"	48.3	80.5	
30"	90"	68.2	120
36"		56.8	117
42"		48.7	100.2
48"		42.6	87.6
54"		37.9	77.9
60"	42.1	70.1	
30"	96"	73.9	120
36"		61.6	120
42"		52.8	103
48"		46.2	77
54"		41.1	68.5
60"	37	61.6	
30"	102"	65.5	109
36"		54.6	100
42"		46.8	78
48"		40.9	68.2
54"		36.4	60.7
60"	32.7	54.6	
30"	108"	58.4	97.4
36"		48.7	81.2
42"		41.7	69.5
48"		36.5	60.9
54"		32.5	54.1
60"	29.2	48.7	
30"	114"	52.4	87.4
36"		43.7	72.8
42"		37.4	62.4
48"		32.8	54.6
54"		29.2	48.5
60"	26.2	43.7	
30"	120"	47.3	78.9
36"		39.4	65.7
42"		33.8	56.3
48"		29.6	49.3
54"		26.3	43.8
60"	23.6	39.4	



MULLION
W / O REINFORCING

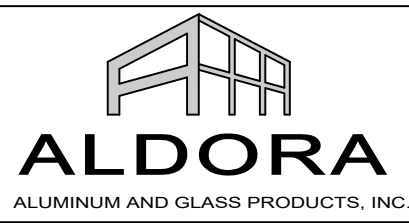
Ix IN ⁴	Sx IN ³
3.421	1.52



MULLION
W / REINFORCING

	Ix IN ⁴	Sx IN ³
ALUMINUM	3.421	1.52
STEEL	2.260	1.064
TOTAL Ix ALUM. + Ix STL. X 2.9	9.975	

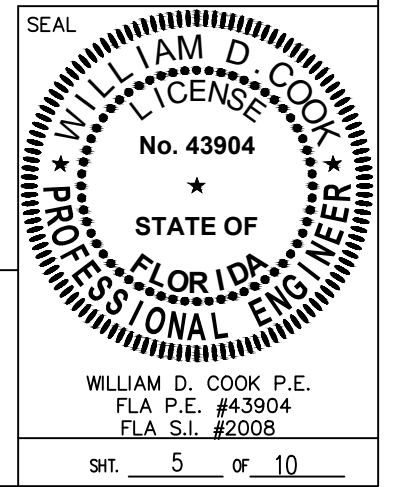
PROJECT NAME: SMI-245 NON-IMPACT SERIES STOREFRONT SYSTEM		
DRAWING NUMBER: SMI-245-PA-1	DRAW BY: M.G.	PRODUCT APPROVAL NO.: FL 35263.1
SCALE:	DATE: 05/05/2025	



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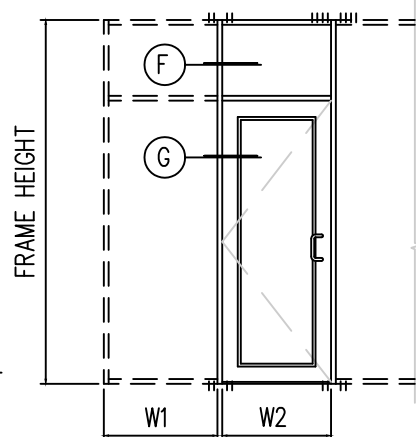


DOOR MULLION LOAD CAPACITY					
NOMINAL DIMS.				LOADS - PSF	
DOOR WIDTH W2	SIDELITE WIDTH W1	DOOR HEIGHT A	FRAME SPAN L	EXT. (+) INT. (-)	
60"	30"	84"	96"	83.8	
	36"			78.8	
	42"			74.3	
	48"			70.3	
54"	66.8				
30"	74.3				
36"	70.3				
42"	66.8				
48"	63.5				
54"	60.6				
72"	30"		84"	102"	76.5
	36"				71.9
	42"	67.8			
	48"	64.2			
54"	60.9				
30"	67.8				
36"	64.2				
42"	60.9				
48"	65				
54"	55.3				
60"	30"	84"		108"	67.8
	36"				63.7
	42"		60.1		
	48"		56.9		
54"	54				
30"	60.1				
36"	56.9				
42"	54				
48"	51.4				
54"	49				
72"	30"		84"	114"	60
	36"				56.4
	42"	53.2			
	48"	50.4			
54"	47.8				
30"	53.2				
36"	50.4				
42"	47.8				
48"	45.5				
54"	43.4				
60"	30"	84"		120"	47.9
	36"				51
	42"		48.1		
	48"		45.5		
54"	43.2				
30"	48.1				
36"	45.5				
42"	43.2				
48"	41.1				

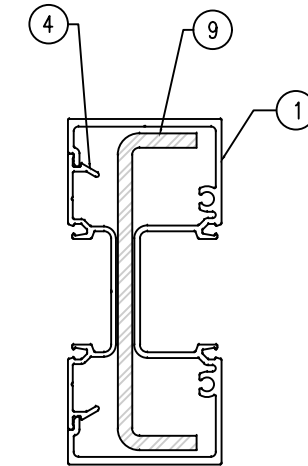
DOOR MULLION LOAD CAPACITY					
NOMINAL DIMS.				LOADS - PSF	
DOOR WIDTH W2	SIDELITE WIDTH W1	DOOR HEIGHT A	FRAME SPAN L	EXT. (+) INT. (-)	
60"	30"	90"	102"	77.9	
	36"			73.2	
	42"			69	
	48"			65.3	
54"	62				
30"	69				
36"	65.3				
42"	62				
48"	59				
54"	56.3				
72"	30"		90"	108"	69.7
	36"				64.6
	42"	61			
	48"	57.7			
54"	54.8				
30"	61				
36"	57.7				
42"	54.8				
48"	52.1				
54"	49.7				
60"	30"	90"		114"	60.7
	36"				57.1
	42"		53.8		
	48"		51		
54"	48.4				
30"	53.8				
36"	50.9				
42"	48.4				
48"	46				
54"	43.9				
72"	30"		90"	120"	55
	36"				51.7
	42"	48.8			
	48"	46.3			
54"	43.9				
30"	48.8				
36"	46.3				
42"	43.9				
48"	41.7				

DOOR MULLION LOAD CAPACITY					
NOMINAL DIMS.				LOADS - PSF	
DOOR WIDTH W2	SIDELITE WIDTH W1	DOOR HEIGHT A	FRAME SPAN L	EXT. (+) INT. (-)	
60"	30"	96"	108"	69.7	
	36"			65.5	
	42"			61.8	
	48"			58.5	
54"	55.5				
30"	61.8				
36"	58.5				
42"	55.5				
48"	52.8				
54"	50.4				
72"	30"		96"	114"	61.9
	36"				58.2
	42"	54.9			
	48"	52			
54"	49.4				
30"	54.9				
36"	52				
42"	49.4				
48"	47				
54"	44.8				
60"	30"	96"		120"	55.7
	36"				52.3
	42"		49.4		
	48"		46.7		
54"	44.3				
30"	49.4				
36"	46.7				
42"	44.3				
48"	42.2				

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



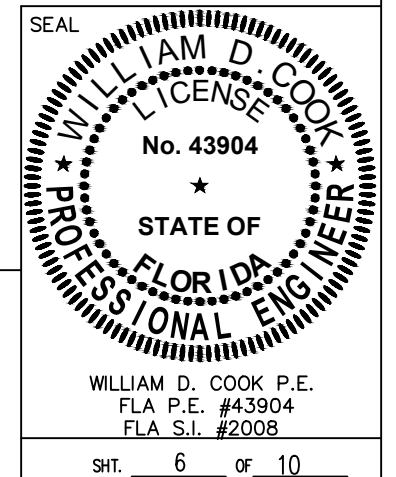
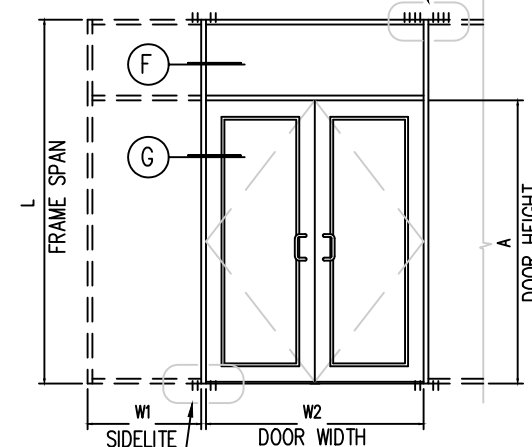
ANCHOR TYPE	TOTAL NO. OF ANCHORS AT DOOR MULLION SILL
B	4



MULLION
W / REINFORCING

	Ix IN ⁴	Sx IN ³
ALUMINUM	3.421	1.52
STEEL	2.260	1.064
TOTAL Ix ALUM. + Ix STL. X 2.9	9.975	

ANCHOR TYPES	TOTAL NO. OF ANCHORS AT DOOR MULLION HEAD
A	8
B	5
C	4



PROJECT NAME: SMI-245 NON-IMPACT SERIES STOREFRONT SYSTEM		
DRAWING NUMBER: SMI-245-PA-1	DRAW BY: M.G.	PRODUCT APPROVAL NO.: FL 35263.1
SCALE:	DATE: 05/05/2025	

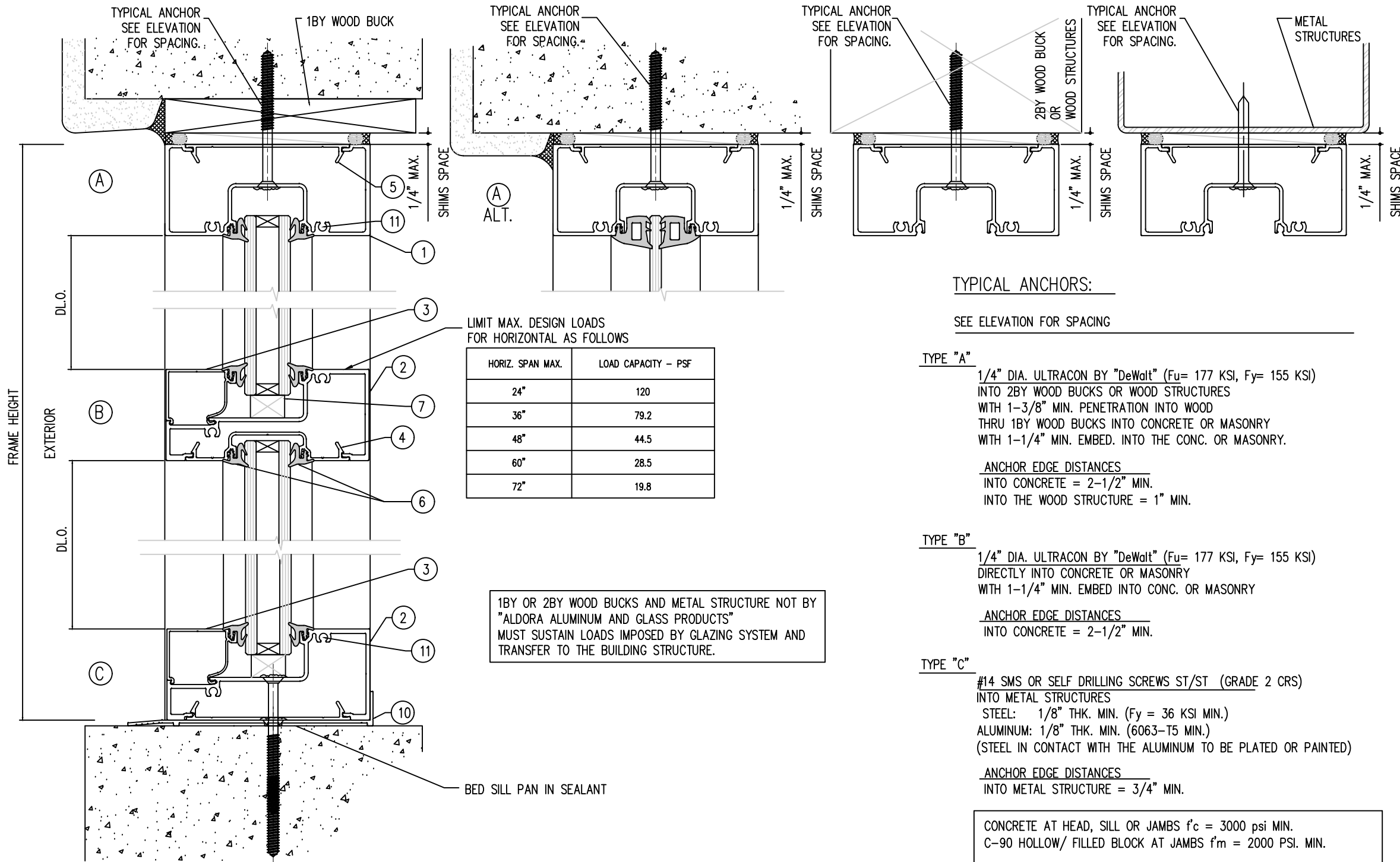


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CERT. OF AUTH. #00009124

WILLIAM D. COOK P.E.
FLA P.E. #43904
FLA S.I. #2008



TYPICAL ANCHORS:

SEE ELEVATION FOR SPACING

TYPE "A"

1/4" DIA. ULTRACON BY "DeWalt" (Fu= 177 KSI, Fy= 155 KSI) INTO 2BY WOOD BUCKS OR WOOD STRUCTURES WITH 1-3/8" MIN. PENETRATION INTO WOOD THRU 1BY WOOD BUCKS INTO CONCRETE OR MASONRY WITH 1-1/4" MIN. EMBED. INTO THE CONC. OR MASONRY.

ANCHOR EDGE DISTANCES

INTO CONCRETE = 2-1/2" MIN.
INTO THE WOOD STRUCTURE = 1" MIN.

TYPE "B"

1/4" DIA. ULTRACON BY "DeWalt" (Fu= 177 KSI, Fy= 155 KSI) DIRECTLY INTO CONCRETE OR MASONRY WITH 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

ANCHOR EDGE DISTANCES

INTO CONCRETE = 2-1/2" MIN.

TYPE "C"

#14 SMS OR SELF DRILLING SCREWS ST/ST (GRADE 2 CRS) INTO METAL STRUCTURES
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH THE ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 psi MIN.
C-90 HOLLOW/ FILLED BLOCK AT JAMBS f'm = 2000 PSI. MIN.

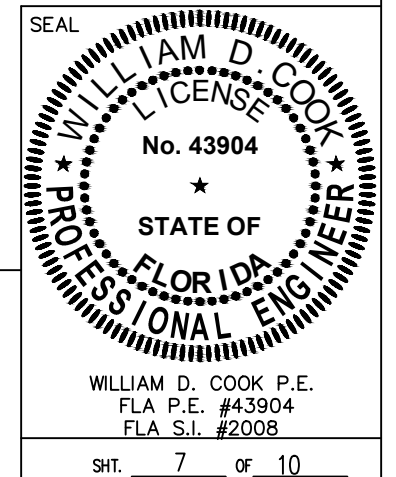
PROJECT NAME: SMI-245 NON-IMPACT SERIES STOREFRONT SYSTEM		
DRAWING NUMBER: SMI-245-PA-1	DRAW BY: M.G.	PRODUCT APPROVAL NO.: FL 35263.1
SCALE:	DATE: 05/05/2025	

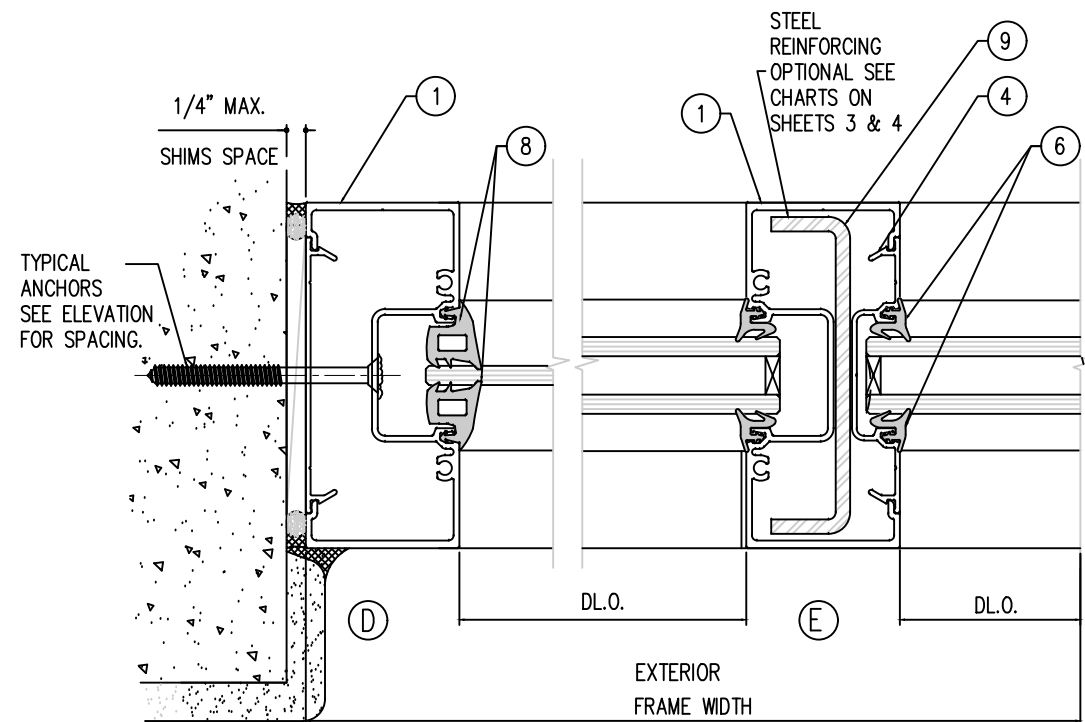
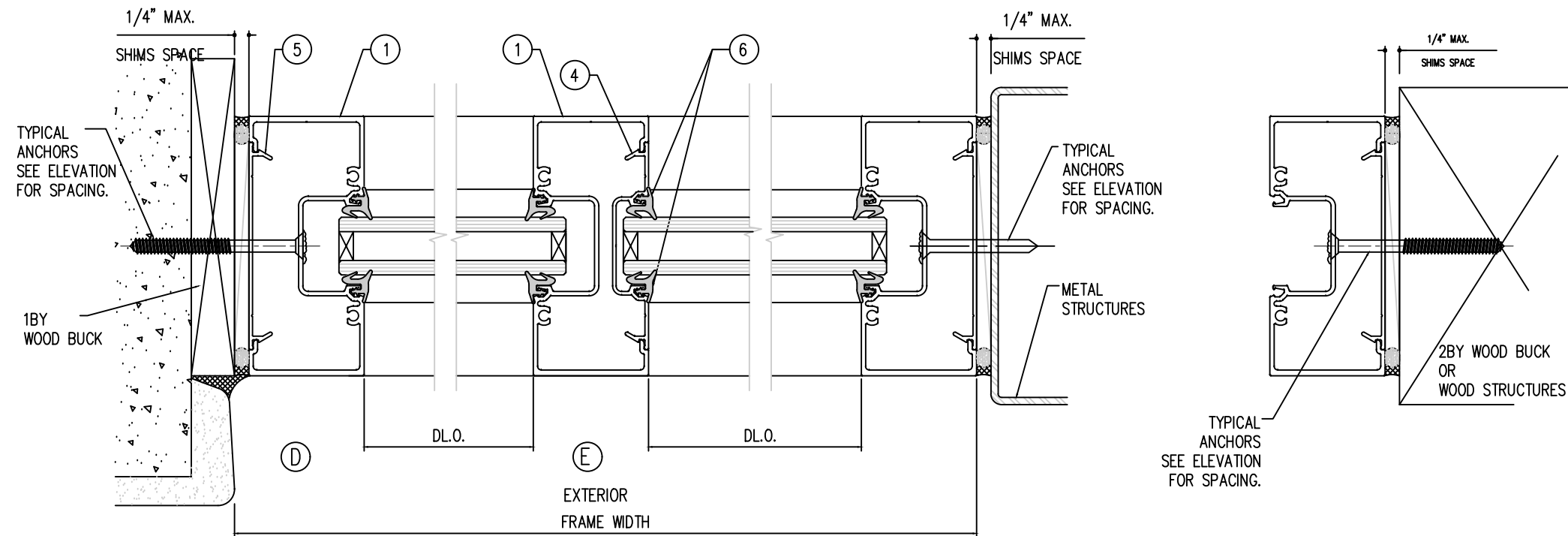


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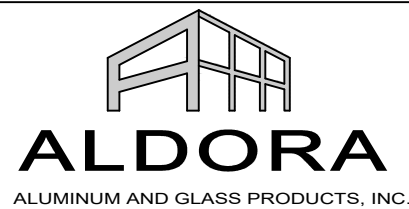
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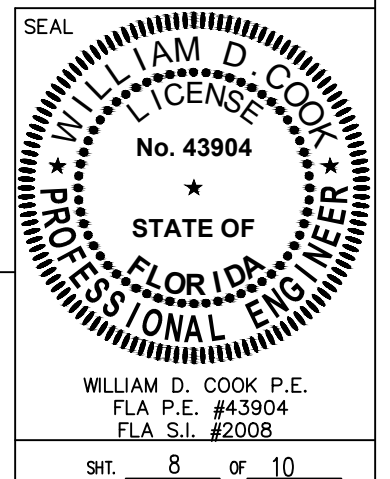
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	SCALE:	DATE: 05/05/2025

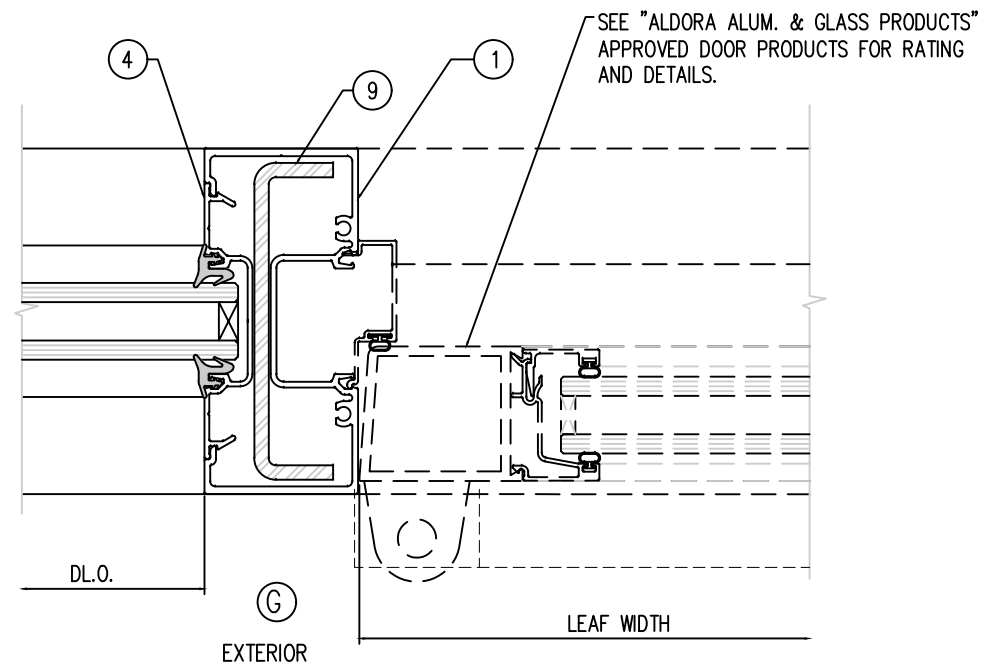
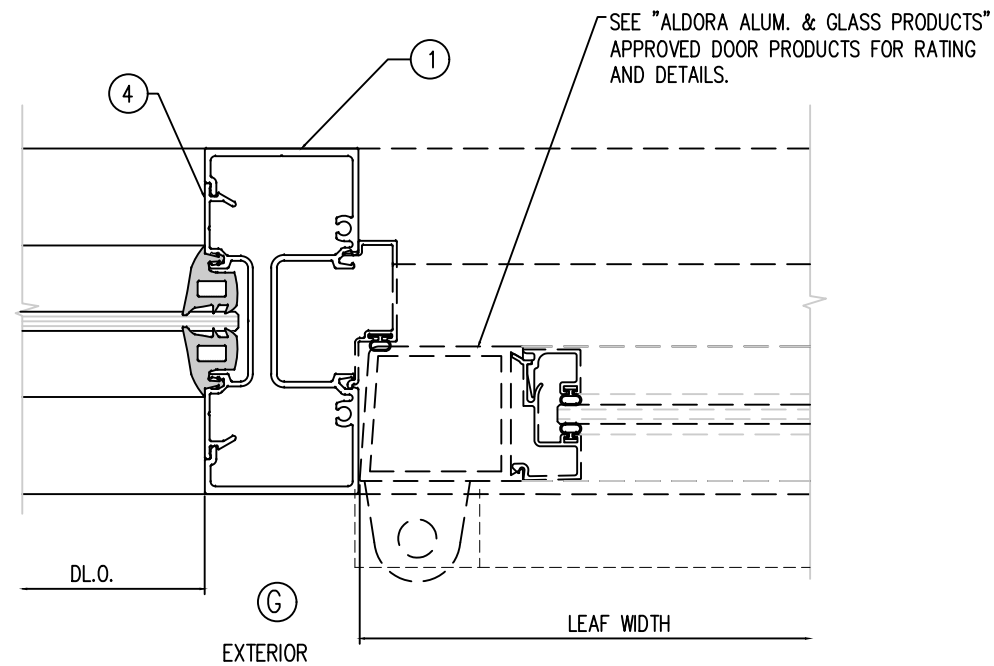
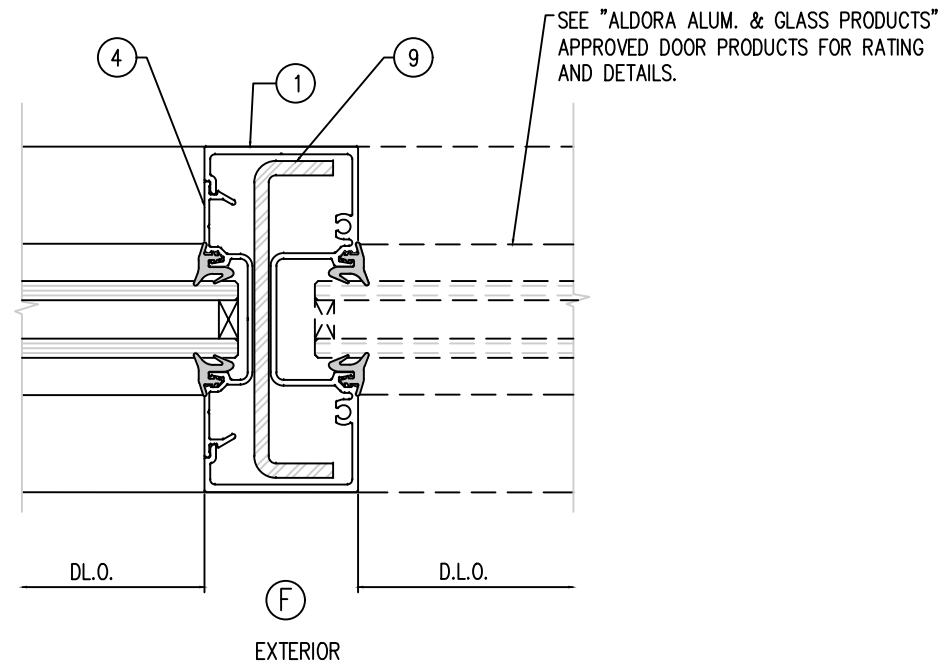
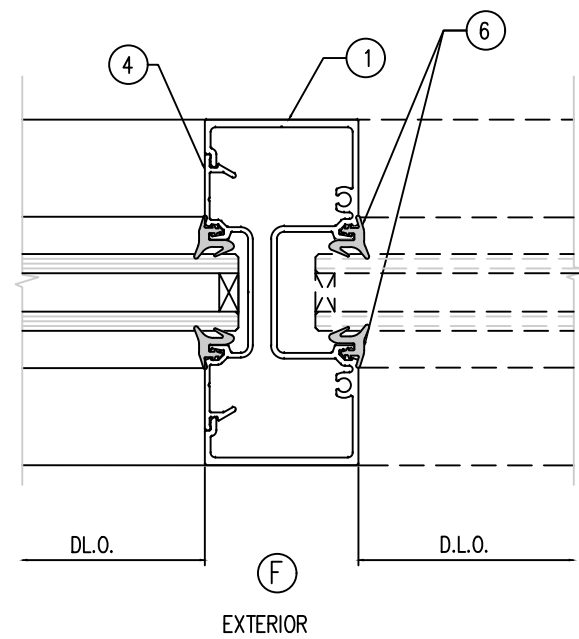


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DRAWING NUMBER: SMI-245-PA-1	DRAW BY: M.G.	PRODUCT APPROVAL NO.: FL 35263.1
	SCALE:	DATE: 05/05/2025



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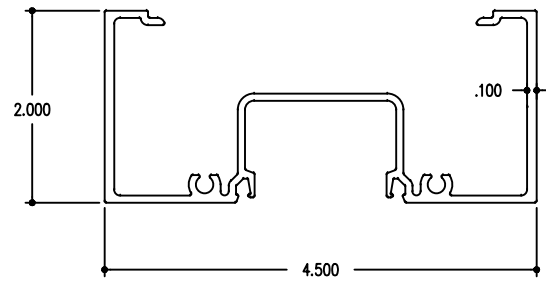
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SEAL

WILLIAM D. COOK P.E.
FLA P.E. #43904
FLA S.I. #2008

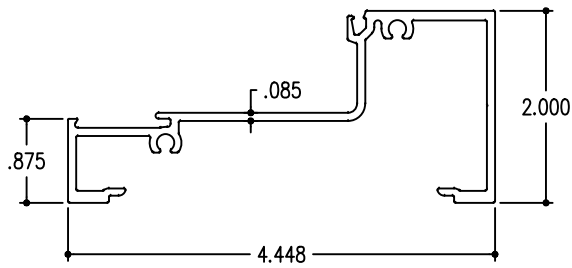
SHT. 9 OF 10

BILL OF MATERIALS					
ITEM #	PART #	REQ'D	DESCRIPTION	MATERIAL	MANF. / SUPPLIER / REMARKS
1	SMI-213	AS REQ'D	HEAD, JAMB AND MULLION	6063-T6	-
2	SMI-214	AS REQ'D	SILL, INTERM. HORIZONTAL.	6063-T6	-
3	SMI-216	AS REQ'D	GLASS STOP.	6063-T6	-
4	SMI-217	AS REQ'D	POCKET FILLER.	6063-T6	-
5	SMI-118	AS REQ'D	PLAIN SNAP.	6063-T6	-
6	SMI-G04	AS REQ'D	GASKET	EPDM	GLAZING RUBBER PRODUCTS.
7	SMI-SB10	2 PER GL.	SETTING BLOCKS (1/2" X 3/4" X 2" LG.)	EPDM	TREMCO.
8	SMI-G08	AS REQ'D	GASKET	EPDM	GLAZING RUBBER PRODUCTS.
9	NI-1	OPTIONAL	REINFORCING CHANNEL (1" X 4 1/8" X 1" X 3/16" THK.)	STEEL	-
10	SMI-122	AS REQ'D	SUB-SILL	6063-T6	-
11	#12 X 1 1/2" LG.	2/CORNER	ASSEMBLY SCREWS	ST. STEEL	HEX. HEAD SHEET METAL SCREW.
12	SPACER BAR	AS REQ'D	LPX AIR SPACER	ALUM.	ALLMETAL



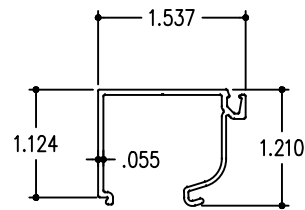
① SMI-213
HEAD, JAMB AND MULLION.

⑥ SMI-G04
GASKET



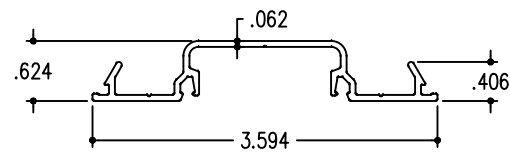
② SMI-214
SILL, INTERM. HORIZONTAL.

⑦ SMI-SB10
SETTING BLOCK

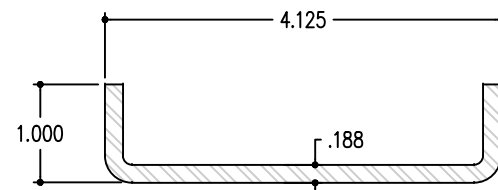


③ SMI-216
GLASS STOP.

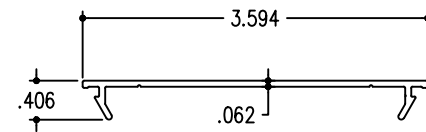
⑧ SMI-G08
GASKET



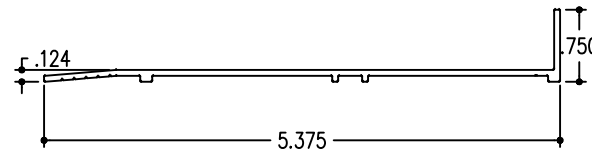
④ SMI-217
POCKET FILLER.



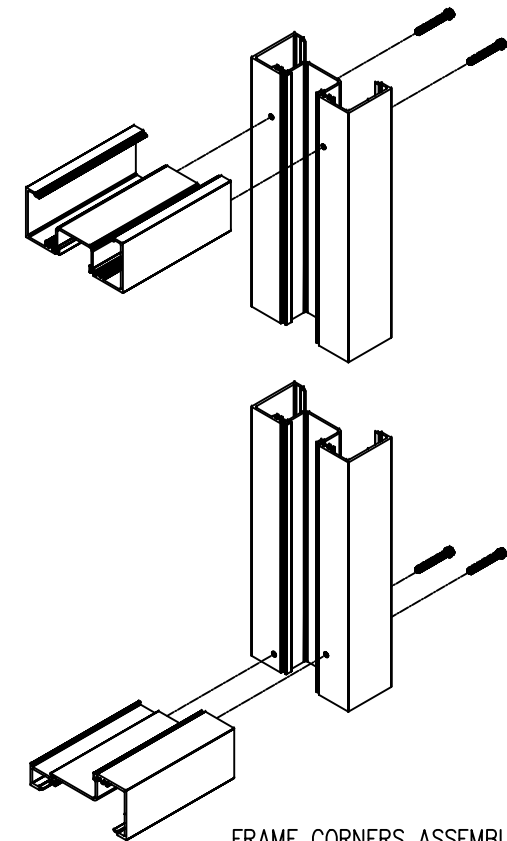
⑨ PART# NI-1
STEEL REINFORCING.



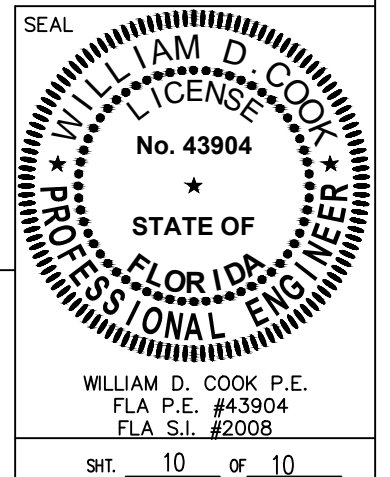
⑤ SMI-118
PLAIN SNAP.



⑩ SMI-122
SUB-SILL
NOTE: END DAM REQ'D



FRAME CORNERS ASSEMBLY
NOTE: SEAL JOINTS DURING ASSEMBLY



PROJECT NAME:
SMI-245 NON-IMPACT SERIES STOREFRONT SYSTEM

DRAWING NUMBER:
SMI-245-PA-1

DRAW BY:
M.G.

SCALE:

PRODUCT APPROVAL NO.:
FL 35263.1

DATE:
05/05/2025



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SHT. 10 OF 10