

SERIES SS-3520
IMPACT-RESISTANT STOREFRONT WINDOW SYSTEM

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS. FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, THE OUTBOARD LITE (CAP) MUST TEMPERED.

3) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER, (EOR) OR ARCHITECT OF RECORD, (AOR).

4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE EMBEDMENT. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

5) MAX. 1/2" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.

6) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL/CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL/ CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.

7) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

8) IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MAX. 1/4" THICK & 3400 PSI MIN., (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

TABLE 1:

Anchor	Substrate	Min. Edge Distance	Min. Embedment
#14 SMS Carbon Steel or 18-8, 316, 410 SS	Southern Pine (SG=0.55)	1"	1-3/8"
	Aluminum, 6063-T5*	3/8"	1/8"
	Steel Stud, (Gr. 33)*	3/8"	0.0451", 18Ga
	Steel, A36*	3/8"	1/8"
1/4" Steel Ultracon+	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	Grout-Filled CMU, (ASTM C-90)	2-1/2"	2-1/4"
	Concrete, (min. 3.00 ksi)	2-1/2"	1-3/4"
1/4" 304 SS Aggre-Gator	Grout-Filled CMU, (ASTM C-90)	2"	2"
	Concrete, (min. 3.52 ksi)	3"	1-3/8"
1/4" 410 SS Crete-Flex	Concrete, (min. 3.35 ksi)	2-1/2"	1-3/4"
5/16" Steel Ultracon	Ungrouted CMU, (ASTM C-90)	3-1/8"	1-1/4"
	Grout-Filled CMU, (ASTM C-90)	2-1/2"	1-3/4"
	Concrete, (min. 3.52 ksi)	3-1/8"	2"

- 1) * MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
2) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
3) 18-8 FASTENERS SHALL BE MANUFACTURED FROM TYPE 304 OR 305 STAINLESS STEEL PER ASTM A240.
4) ALL SCREWHEAD TYPES ARE APPLICABLE.

INSTRUCTIONS:

- 1) DETERMINE THE BUILDING'S REQUIRED DESIGN PRESSURE USING THE ASCE-7 STANDARD. THE PRODUCT'S DESIGN PRESSURE MUST MEET OR EXCEED THIS VALUE.
- 2) DETERMINE THE ANCHOR TYPE FROM TABLE 1.
- 3) DETERMINE THE GLASS DESIGN PRESSURE FROM TABLE 3.
- 4) ANCHOR SPACING IS SHOWN SHEETS 2 & 3 AND HAS BEEN CALCULATED FOR THE PRODUCT'S MAXIMUM DP.
- 5) IF THE STOREFRONT WINDOW IS ATTACHED TO ANOTHER WINDOW THROUGH A COMMON MULLION DETERMINE THE MULLION DESIGN PRESSURE FROM TABLE 4.
- 6) THE LOWEST DESIGN PRESSURE FROM 3 & 5 ABOVE, SHALL BE USED FOR THE ENTIRE ASSEMBLY.
- 7) IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (STOREFRONT ENTRANCE DOOR, PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.

DAYLITE OPENING
(DLO) FORMULAS
SEE SHEET 4

DESIGN PRESSURE RATING SEE TABLES 3 & 4
WATER TEST PRESSURE 15% OF (+) DP
IMPACT RATING LARGE AND SMALL MISSILE IMPACT RESISTANT MISSILE LEVEL D

Rev.
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TABLE 2:

Glass Types (Listed Exterior to Interior)	
1	Lami: 1/4" HS, 0.090" PVB, 1/4" HS
2	Lami: 1/4" HS, 0.090" SG, 1/4" HS
3	Lami IG: 1/4" HS, 0.090" PVB, 1/4" HS, AIRSPACE, 1/4" TP CAP
4	Lami IG: 1/4" HS, 0.090" SG, 1/4" HS, AIRSPACE, 1/4" TP CAP

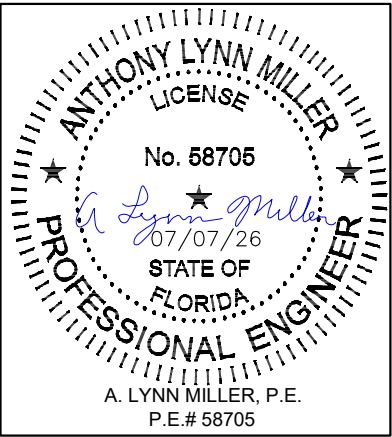
- 1) SEE SHEET 8 FOR ADDITIONAL GLAZING DETAILS.
2) GLAZING FOR ALL GLASS TYPES TO MEET ASTM E1300 FOR ALL APPROVED SIZES.

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WHERE THE PRODUCT WILL BE INSTALLED WITHIN 3,000 FEET OF A SALTWATER COASTLINE, IT MUST COMPLY WITH SECTION 1711 OF THE FBC, BUILDING OR R332 OF THE FBC, RESIDENTIAL.

THIS SYSTEM HAS BEEN TESTED TO MEET THE 400 FT-LB KINETIC ENERGY IMPACT LOADING REQUIREMENTS OF ANSI Z97.1 WHEN USING GLASS TYPES B, C, E, F, E1 OR F1 AND MAY BE USED IN APPLICATIONS WHERE THE WINDOW IS BEING USED AS A GUARD.

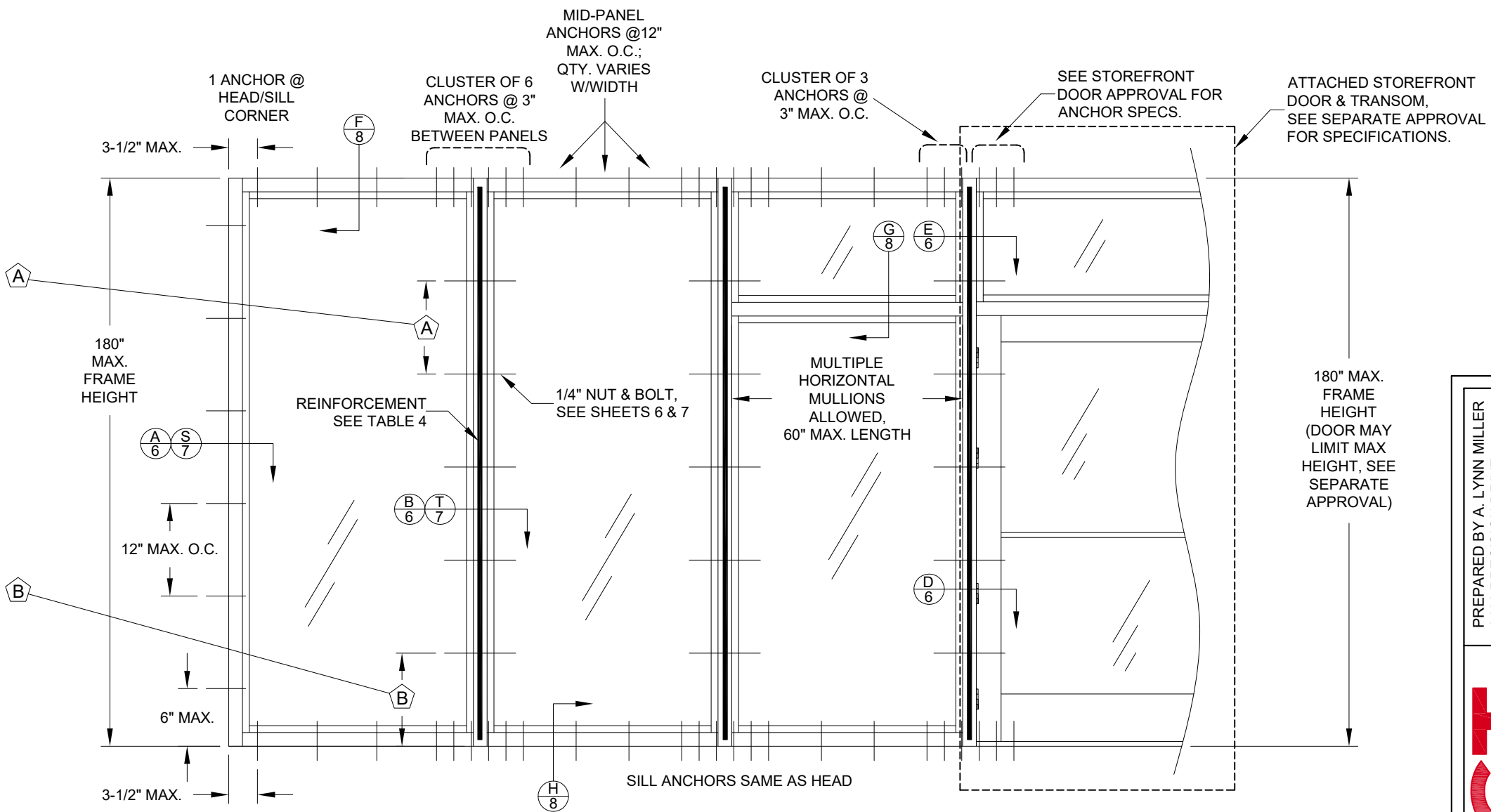
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	Date				
	By				
	Drawn				
PGT[®] Commercial REGISTRATION #29296	ALUM. STOREFRONT WINDOW SYSTEM		NOTES & ANCHOR TABLE	1 OF 10	
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	Drawn				
Series		Desc.		SS3520	Sheet



Rev.	
Date	
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MAX. O.C. DISTANCES		
REINFORCED 5" MULLION	UNREINF. 5" MULLION	REINFORCED & UNREINFORCED 7" HD MULLION
24"	14-3/8"	24"

MAX. END DISTANCES		
REINFORCED 5" MULLION	UNREINF. 5" MULLION	REINFORCED & UNREINFORCED 7" HD MULLION
24"	12-7/8"	24"

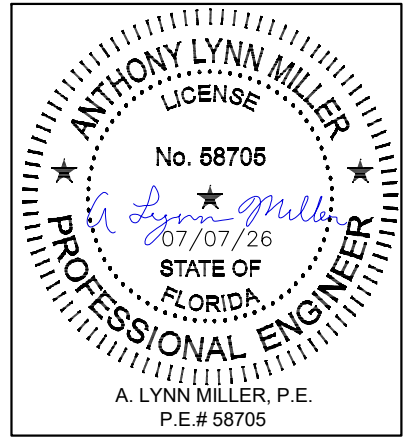


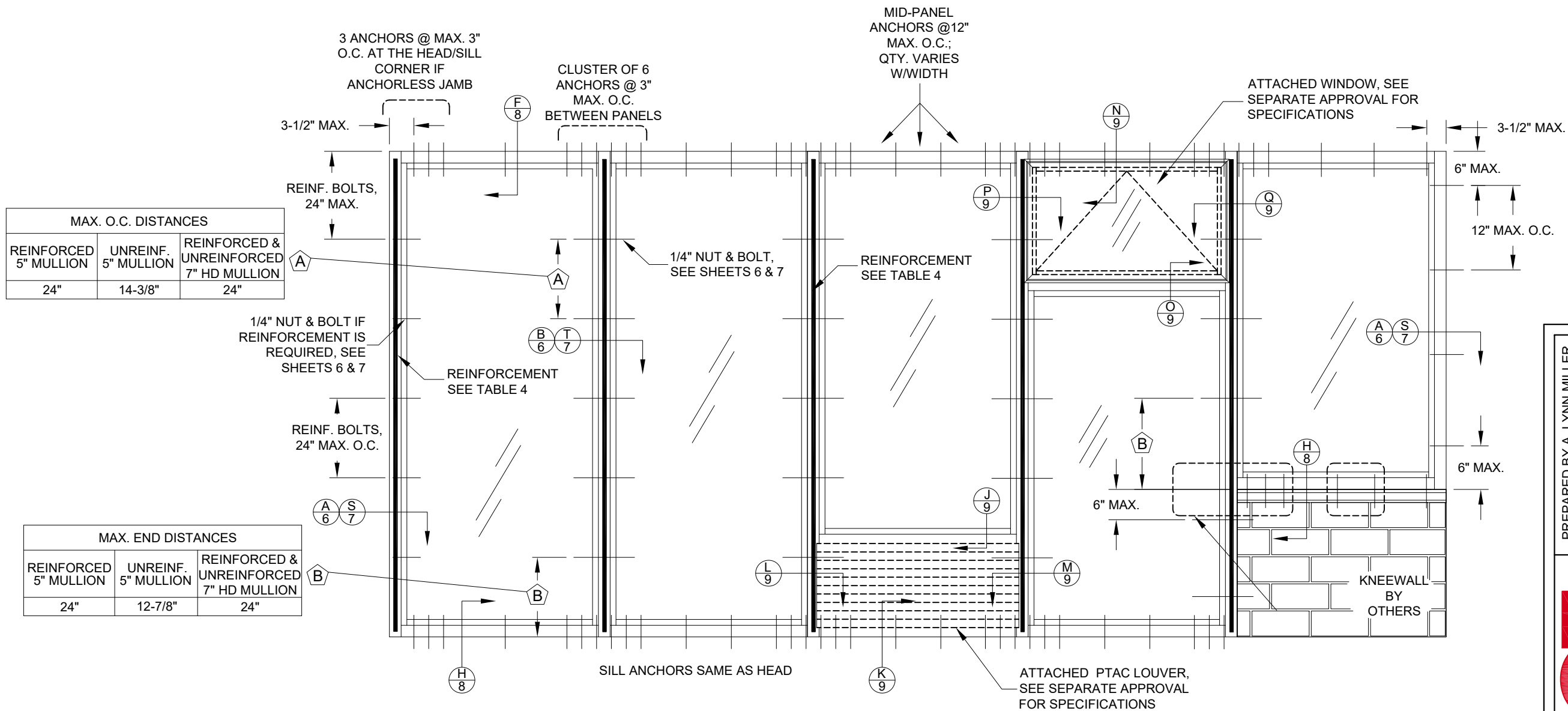
TYP. ELEVATION OF STOREFRONT WINDOW SYSTEM WITH
EXAMPLES OF HORIZONTAL MULLION & STOREFRONT DOOR

NOTES:

- 1) IF COMBINED WITH A COMPATIBLE STOREFRONT ENTRANCE DOOR, THE LESSER DESIGN PRESSURE VALUE OF THE DOOR OR THE WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.
- 2) SEE TABLES FOR MAXIMUM ALLOWED SIZES.
- 3) SEE SHEET 4 FOR DAYLIGHT OPENING (DLO) FORMULAS.

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TYP. ELEVATION OF
ANCHORLESS JAMB

TYP. ELEVATION OF STOREFRONT WINDOW SYSTEM WITH EXAMPLES
OF WINDOW INSERT, PTAC INSERT & KNEEWALL

NOTES:

- 1) IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (COMPATIBLE STOREFRONT ENTRANCE DOOR, PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.
- 2) SEE TABLES FOR MAXIMUM ALLOWED SIZES.
- 3) AWNING WINDOW INSERT SHOWN BUT MAY BE ANY APPROVED PGT, CGI OR WINDOOR WINDOW WITH A FLANGED FRAME.
- 4) SEE SHEET 4 FOR DAYLIGHT OPENING (DLO) FORMULAS.
- 5) MULTIPLE INSERTS WITHIN THE SAME STOREFRONT WINDOW ALLOWED.

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ALUM. STOREFRONT WINDOW SYSTEM

ELEVATION B

07/07/26

JENS ROSOWSKI

SS3520

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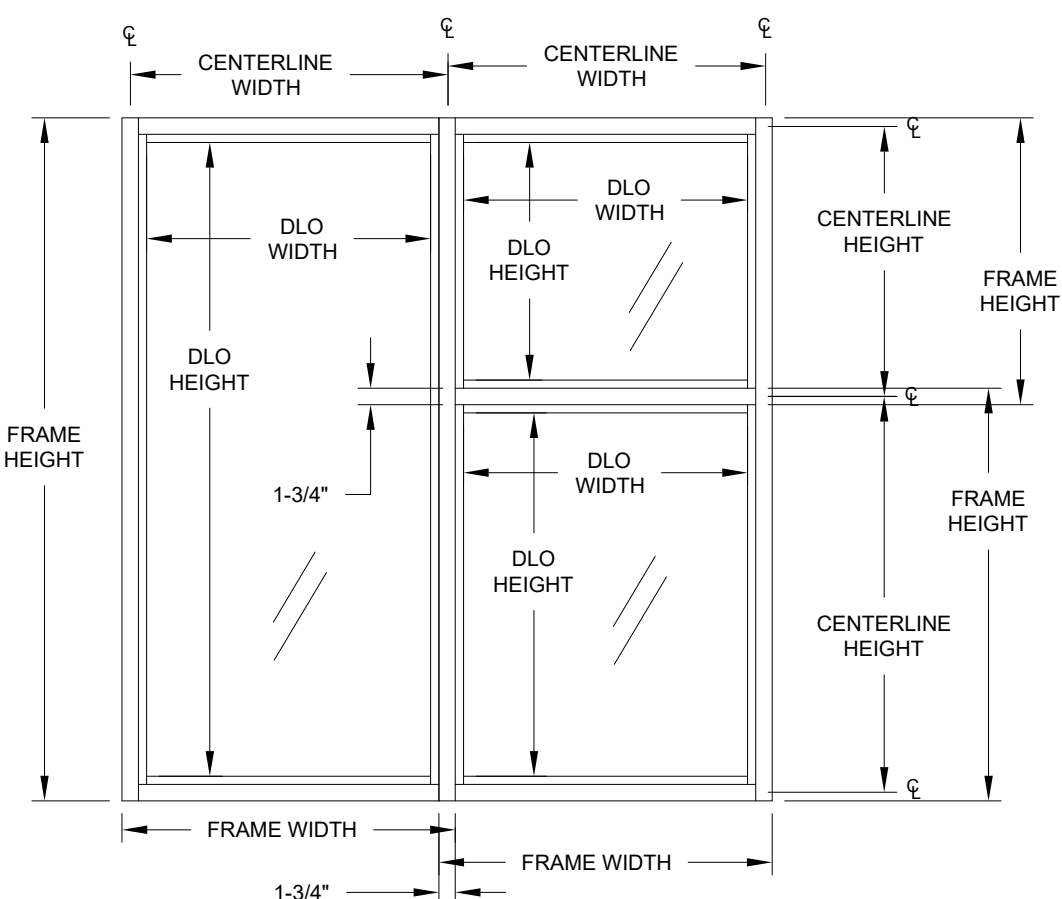
SS3520-LM-HVHZ

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ANTHONY LYNN MILLER
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FLORIDA
PROFESSIONAL ENGINEER
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P.E.# 58705

TABLE 3:

Max. DP due to Glass Limitations, psf				Max. DP due to Glass Limitations, psf				Max. DP due to Glass Limitations, psf			
Centerline Width	Frame Height	Glass Types 1 & 3	Glass Types 2 & 4	Centerline Width	Frame Height	Glass Types 1 & 3	Glass Types 2 & 4	Centerline Width	Frame Height	Glass Types 1 & 3	Glass Types 2 & 4
24"	48"	+70/-80	+90/-120	24"	78"	+70/-80	+90/-120	24"	108"	+70/-80	+90/-120
30"		+70/-80	+90/-120	30"		+70/-80	+90/-120	30"		+70/-80	+90/-120
36"		+70/-80	+90/-120	36"		+70/-80	+90/-120	36"		+70/-80	+90/-120
42"		+70/-80	+90/-120	42"		+70/-80	+90/-120	42"		+70/-80	+90/-120
48"		+70/-80	+90/-120	48"		+70/-80	+90/-120	48"			+90/-120
54"		+70/-80	+90/-120	54"		+70/-80	+90/-120	54"			+90/-100
60"		+70/-80	+90/-120	60"		+68.6/-78.5	+90/-120	60"			+90/-100
70"		+70/-80	+90/-120	70"			+90/-119.4	70"			+70/-70
72"		+70/-80	+90/-120	72"			+90/-118.9	72"			+69.3/-69.3
84"		+70/-80	+90/-120	84"			+90/-100	24"	114"	+70/-80	+90/-120
90"		+70/-80	+90/-120	90"			+90/-100	30"		+70/-80	+90/-120
92"		+70/-80	+90/-120	92"			+90/-100	36"		+70/-80	+90/-120
96"		+70/-80	+90/-120	96"			+70/-70	42"			+90/-120
102"			+90/-120	102"			+69/-69	48"			+90/-120
108"			+90/-120	108"			+66.8/-66.8	54"			+90/-100
120"	60"		+90/-120	24"	84"	+70/-80	+90/-120	60"	120"		+90/-100
132"			+90/-100	30"		+70/-80	+90/-120	70"			+68.6/-68.6
144"			+90/-100	36"		+70/-80	+90/-120	72"			+67.5/-67.5
168"			+60/-60.7	42"		+70/-80	+90/-120	24"	126"	+70/-80	+90/-120
180"			+60/-60	48"		+70/-80	+90/-120	30"		+70/-80	+90/-120
24"		+70/-80	+90/-120	54"		+69.2/-79.1	+90/-120	36"		+70/-80	+90/-120
30"		+70/-80	+90/-120	60"	90"		+90/-119.5	42"			+90/-120
36"		+70/-80	+90/-120	70"			+90/-100	48"			+90/-120
42"		+70/-80	+90/-120	72"			+90/-100	54"			+90/-100
48"		+70/-80	+90/-120	84"			+90/-100	60"			+90/-100
54"		+70/-80	+90/-120	90"			+70/-70	70"			+67.1/-67.1
60"		+70/-80	+90/-120	92"			+70/-70	72"			+66/-66
70"		+70/-80	+90/-120	96"			+70/-70	24"	132"	+70/-80	+90/-120
72"		+70/-80	+90/-120	102"			+67.3/-67.3	30"		+70/-80	+90/-120
84"	72"		+90/-119.5	24"	97-3/4"	+70/-80	+90/-120	36"		+70/-80	+90/-120
90"			+90/-115.2	30"		+70/-80	+90/-120	42"			+90/-120
92"			+90/-114	36"		+70/-80	+90/-120	48"			+90/-100
96"			+90/-111.7	42"		+70/-80	+90/-120	54"			+90/-100
102"			+90/-100	48"		+70/-80	+90/-120	60"			+70/-70
108"			+90/-100	54"	102"		+90/-120	24"	138"	+70/-80	+90/-120
120"			+90/-100	60"			+90/-115.2	30"		+70/-80	+90/-120
132"			+70/-70	66"			+90/-100	36"			+90/-120
144"			+70/-70	72"			+90/-100	42"			+90/-120
24"		+70/-80	+90/-120	78"			+70/-70	48"			+90/-100
30"		+70/-80	+90/-120	84"			+70/-70	54"			+90/-100
36"	48"	+70/-80	+90/-120	90"			+70/-70	60"			+70/-70
42"		+70/-80	+90/-120	96"			+69.6/-69.6	24"	144"	+70/-80	+90/-120
48"		+70/-80	+90/-120	24"	97-3/4"	+70/-80	+90/-120	30"		+70/-80	+90/-120
54"		+70/-80	+90/-120	30"		+70/-80	+90/-120	36"			+90/-120
60"		+70/-80	+90/-120	36"		+70/-80	+90/-120	42"			+90/-100
70"			+90/-120	42"		+70/-80	+90/-120	48"			+90/-100
72"			+90/-120	48"		+70/-80	+90/-120	54"			+65.6/-65.6
84"			+90/-100	54"			+90/-117.9	60"			+70/-70
90"			+90/-100	60"			+90/-100	24"	168"	+70/-80	+90/-120
92"			+90/-100	66"			+90/-100	30"		+70/-80	+90/-120
96"			+90/-100	72"			+89/-99	36"			+90/-120
102"			+70/-70	78"			+69.4/-69.4	42"			+90/-100
108"			+69.3/-69.3	24"	102"	+70/-80	+90/-120	48"			+90/-100
120"			+66/-66	30"		+70/-80	+90/-120	54"			+70/-70
				36"		+70/-80	+90/-120	60"			+70/-70
				42"		+70/-80	+90/-120	24"	180"		+60/-75
				48"			+90/-120	30"			+60/-75
				54"			+90/-116.1	36"			+60/-75
				60"			+90/-100	42"			+60/-67.9
				70"			+88.1/-97.9	48"			+60/-60.7
				72"			+70/-70	24"			+60/-75
				84"			+67.3/-67.3	30"			+60/-75
								36"			+60/-75
								42"			+60/-67.3
								48"			+60/-60



DLO (DAYLIGHT OPENING) FORMULAS:

FRAME WIDTH - 4" = DLO WIDTH
FRAME HEIGHT - 4" = DLO HEIGHT
CENTERLINE WIDTH - 3" = DLO WIDTH
CENTERLINE HEIGHT - 3" = DLO HEIGHT
CENTERLINE WIDTH - 1-1/2" = GLASS WIDTH
CENTERLINE HEIGHT - 1-1/2" = GLASS HEIGHT
FRAME WIDTH - 2-1/2" = GLASS WIDTH
FRAME HEIGHT - 2-1/2" = GLASS HEIGHT

NOTES:

- 1) IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (STOREFRONT ENTRANCE DOOR, PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.
- 2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.
- 3) DLO = DAYLIGHT OPENING
- 4) SEE SHEET 8 FOR DESCRIPTIONS OF GLASS TYPES.

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ALUM. STOREFRONT WINDOW SYSTEM

07/07/26

By JENS ROSOWSKI

TABLE 2

SS3520

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SS3520-LM-HVHZ

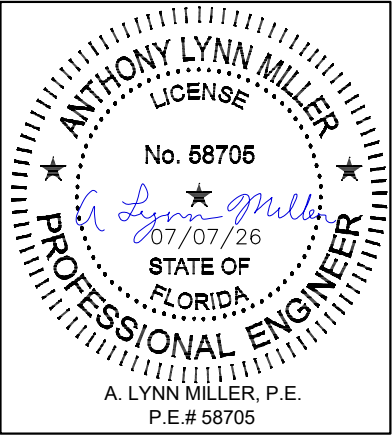
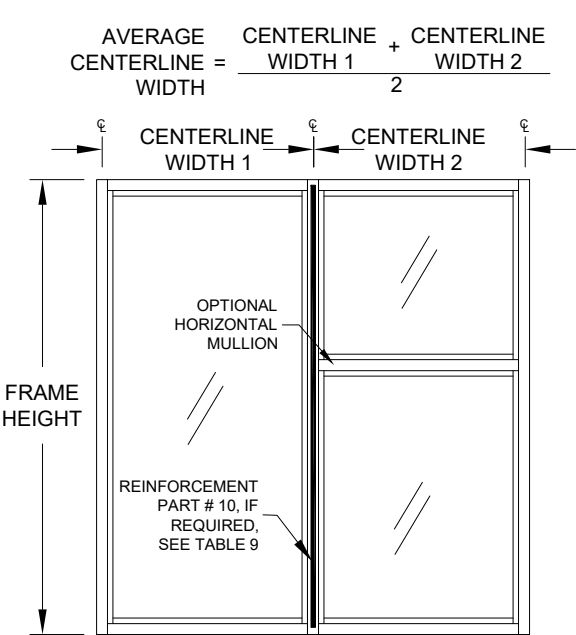


TABLE 4:

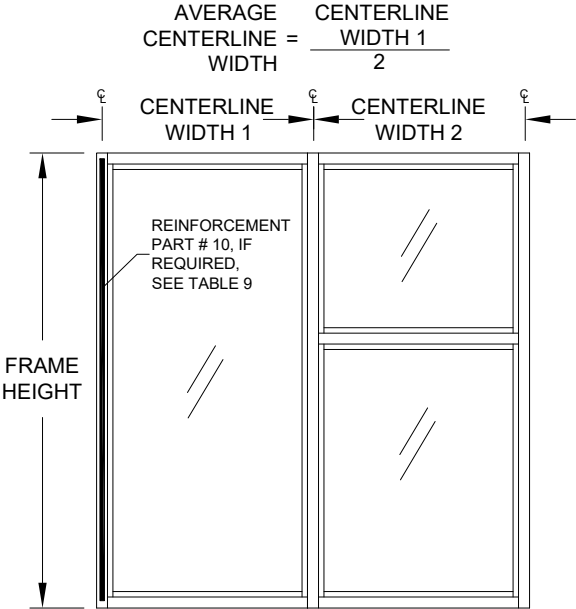
Mullion DP, psf					
Average Centerline Width	Frame Height	5" Unreinforced Mullion	5" Reinforced Mullion	7" Unreinforced HD Mullion	7" Reinforced HD Mullion
24"	48"	+70/-80	+90/-120	+70/-70	+60/-75
30"		+70/-80	+90/-120	+70/-70	+60/-75
36"		+70/-80	+90/-120	+70/-70	+60/-75
42"		+70/-80	+90/-120	+70/-70	+60/-75
48"		+70/-80	+90/-120	+70/-70	+60/-75
54"		+70/-80	+90/-120	+70/-70	+60/-75
60"		+70/-80	+90/-120	+70/-70	+60/-75
70"		+70/-80	+90/-120	+70/-70	+60/-75
72"		+70/-80	+90/-120	+70/-70	+60/-75
84"		+70/-80	+90/-120	+70/-70	+60/-75
90"		+70/-80	+90/-120	+70/-70	+60/-75
92"		+70/-80	+90/-120	+70/-70	+60/-75
96"		+70/-80	+90/-120	+70/-70	+60/-75
102"			+90/-120	+70/-70	+60/-75
108"			+90/-120	+70/-70	+60/-75
120"			+90/-120	+70/-70	+60/-75
132"			+90/-100	+70/-70	+60/-75
144"			+90/-100	+70/-70	+60/-75
168"					+60/-75
180"					+60/-75
24"	60"	+70/-80	+90/-120	+70/-70	+60/-75
30"		+70/-80	+90/-120	+70/-70	+60/-75
36"		+70/-80	+90/-120	+70/-70	+60/-75
42"		+70/-80	+90/-120	+70/-70	+60/-75
48"		+70/-80	+90/-120	+70/-70	+60/-75
54"		+70/-80	+90/-120	+70/-70	+60/-75
60"		+70/-80	+90/-120	+70/-70	+60/-75
70"		+70/-80	+90/-120	+70/-70	+60/-75
72"		+70/-80	+90/-120	+70/-70	+60/-75
84"			+90/-120	+70/-70	+60/-75
90"			+90/-120	+70/-70	+60/-75
92"			+90/-120	+70/-70	+60/-75
96"			+90/-120	+70/-70	+60/-75
102"			+90/-100	+70/-70	+60/-75
108"			+90/-100	+70/-70	+60/-75
120"			+90/-100	+70/-70	+60/-75
132"				+70/-70	+60/-75
144"				+70/-70	+60/-75
24"	72"	+70/-80	+90/-120	+70/-70	+60/-75
30"		+70/-80	+90/-120	+70/-70	+60/-75
36"		+70/-80	+90/-120	+70/-70	+60/-75
42"		+70/-80	+90/-120	+70/-70	+60/-75
48"		+70/-80	+90/-120	+70/-70	+60/-75
54"		+70/-80	+90/-120	+70/-70	+60/-75
60"		+70/-80	+90/-120	+70/-70	+60/-75
70"			+90/-120	+70/-70	+60/-75
72"			+90/-120	+70/-70	+60/-75
84"			+90/-100	+70/-70	+60/-75
90"			+90/-100	+70/-70	+60/-75
92"			+90/-100	+70/-70	+60/-75
102"				+70/-70	+60/-75
108"				+70/-70	+60/-75
120"				+70/-70	+60/-75

Mullion DP, psf					
Average Centerline Width	Frame Height	5" Unreinforced Mullion	5" Reinforced Mullion	7" Unreinforced HD Mullion	7" Reinforced HD Mullion
24"	78"	+70/-80	+90/-120	+70/-70	+60/-75
30"		+70/-80	+90/-120	+70/-70	+60/-75
36"		+70/-80	+90/-120	+70/-70	+60/-75
42"		+70/-80	+90/-120	+70/-70	+60/-75
48"		+70/-80	+90/-120	+70/-70	+60/-75
54"		+70/-80	+90/-120	+70/-70	+60/-75
60"		+70/-80	+90/-120	+70/-70	+60/-75
70"			+90/-120	+70/-70	+60/-75
72"			+90/-120	+70/-70	+60/-75
84"			+90/-100	+70/-70	+60/-75
90"			+90/-100	+70/-70	+60/-75
92"			+90/-100	+70/-70	+60/-75
96"				+70/-70	+60/-75
102"				+70/-70	+60/-75
108"				+70/-70	+60/-75
24"	84"	+70/-80	+90/-120	+70/-70	+60/-75
30"		+70/-80	+90/-120	+70/-70	+60/-75
36"		+70/-80	+90/-120	+70/-70	+60/-75
42"		+70/-80	+90/-120	+70/-70	+60/-75
48"		+70/-80	+90/-120	+70/-70	+60/-75
54"		+70/-80	+90/-120	+70/-70	+60/-75
60"			+90/-120	+70/-70	+60/-75
70"			+90/-100	+70/-70	+60/-75
72"			+90/-100	+70/-70	+60/-75
84"			+90/-100	+70/-70	+60/-75
90"				+70/-70	+60/-75
92"				+70/-70	+60/-75
96"				+70/-70	+60/-75
102"				+70/-70	+60/-75
24"	90"	+70/-80	+90/-120	+70/-70	+60/-75
30"		+70/-80	+90/-120	+70/-70	+60/-75
36"		+70/-80	+90/-120	+70/-70	+60/-75
42"		+70/-80	+90/-120	+70/-70	+60/-75
48"		+70/-80	+90/-120	+70/-70	+60/-75
54"			+90/-120	+70/-70	+60/-75
60"			+90/-120	+70/-70	+60/-75
70"			+90/-100	+70/-70	+60/-75
72"			+90/-100	+70/-70	+60/-75
84"				+70/-70	+60/-75
90"				+70/-70	+60/-75
92"				+70/-70	+60/-75
96"				+70/-70	+60/-75
24"	97-3/4"	+70/-80	+90/-120	+70/-70	+60/-75
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48"		+70/-80	+90/-120	+70/-70	+60/-75
54"			+90/-120	+70/-70	+60/-75
60"			+90/-100	+70/-70	+60/-75
70"			+90/-100	+70/-70	+60/-75
72"			+90/-100	+70/-70	+60/-75
84"				+70/-70	+60/-75
24"	102"	+70/-80	+90/-120	+70/-70	+60/-75
30"		+70/-80	+90/-120	+70/-70	+60/-75
36"		+70/-80	+90/-120	+70/-70	+60/-75
42"		+68.3/-78.1	+90/-120	+70/-70	+60/-75
48"			+90/-120	+70/-70	+60/-75
54"			+90/-120	+70/-70	+60/-75
60"			+90/-100	+70/-70	+60/-75
70"			+90/-100	+70/-70	+60/-75
72"				+70/-70	+60/-75
84"				+70/-70	+60/-75

Mullion DP, psf					
Average Centerline Width	Frame Height	5" Unreinforced Mullion	5" Reinforced Mullion	7" Unreinforced HD Mullion	7" Reinforced HD Mullion
24"	108"	+70/-80	+90/-120	+70/-70	+60/-75
30"		+70/-80	+90/-120	+70/-70	+60/-75
36"		+65.6/-74.9	+90/-120	+70/-70	+60/-75
42"		+57.1/-65.3	+90/-120	+70/-70	+60/-75
48"			+90/-120	+70/-70	+60/-75
54"			+90/-100	+70/-70	+60/-75
60"			+90/-100	+70/-70	+60/-75
70"				+70/-70	+60/-75
72"				+70/-70	+60/-75
24"	114"	+70/-80	+90/-120	+70/-70	+60/-75
30"		+65.8/-75.2	+90/-120	+70/-70	+60/-75
36"		+55.5/-63.4	+90/-120	+70/-70	+60/-75
42"			+90/-120	+70/-70	+60/-75
48"			+90/-120	+70/-70	+60/-75
54"			+90/-100	+70/-70	+60/-75
60"			+90/-100	+70/-70	+60/-75
70"				+70/-70	+60/-75
72"				+70/-70	+60/-75
24"	120"	+69.7/-79.6	+90/-120	+70/-70	+60/-75
30"		+56.2/-64.3	+90/-120	+70/-70	+60/-75
36"		+47.4/-54.2	+90/-120	+70/-70	+60/-75
42"			+90/-120	+70/-70	+60/-75
48"			+90/-120	+70/-70	+60/-75
54"			+90/-100	+70/-70	+60/-75
60"			+90/-100	+70/-70	+60/-75
70"				+70/-70	+60/-75
72"				+70/-70	+60/-75
24"	126"	+60.1/-68.7	+90/-120	+70/-70	+60/-75
30"		+48.5/-55.4	+90/-120	+70/-70	+60/-75
36"		+40.8/-46.6	+90/-120	+70/-70	+60/-75
42"			+90/-116.1	+70/-70	+60/-75
48"			+90/-100	+70/-70	+60/-75
54"			+84/-93.4	+70/-70	+60/-75
60"				+70/-70	+60/-75
24"	132"	+52.2/-59.6	+90/-120	+70/-70	+60/-75
30"		+42.1/-48.1	+90/-120	+70/-70	+60/-75
36"			+90/-116.1	+70/-70	+60/-75
42"			+90/-100.6	+70/-70	+60/-75
48"			+80.5/-89.4	+70/-70	+60/-75
54"			+72.6/-80.6	+70/-70	+60/-75
60"				+70/-70	+60/-73.4
24"	138"	+45.6/-52.1	+90/-120	+70/-70	+60/-75
30"		+36.7/-42	+90/-120	+70/-70	+60/-75
36"			+90/-101.3	+70/-70	+60/-75
42"			+79.2/-88	+70/-70	+60/-75
48"			+70.1/-77.9	+70/-70	+60/-75
54"				+70/-70	+60/-75
60"				+70/-70	+60/-69.3
24"	144"	+40.1/-45.8	+90/-120	+70/-70	+60/-75
30"		+32.3/-36.9	+90/-105.9	+70/-70	+60/-75
36"			+80.3/-89.2	+70/-70	+60/-75
42"			+69.5/-77.2	+70/-70	+60/-75
48"			+61.5/-68.3	+70/-70	+60/-75
54"				+70/-70	+60/-71.1
60"				+70/-70	+60/-65.7
24"	168"				+60/-75
30"					+60/-75
36"					+60/-75
42"					+60/-72.8
48"					+60/-65
24"	180"				+60/-75
30"					+60/-75
36"					+60/-75
42"					+60/-67.3
48"					+60/-60



INTERIOR MULLIONS



ANCHORLESS JAMB/MULLION

- NOTES:
- 1) IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (STOREFRONT ENTRANCE DOOR, PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.
 - 2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.
 - 3) DLO = DAYLIGHT OPENING
 - 4) SEE SHEET 8 FOR DESCRIPTIONS OF GLASS TYPES.

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3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

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REGISTRATION #29296

ALUM. STOREFRONT WINDOW SYSTEM

TABLE 9

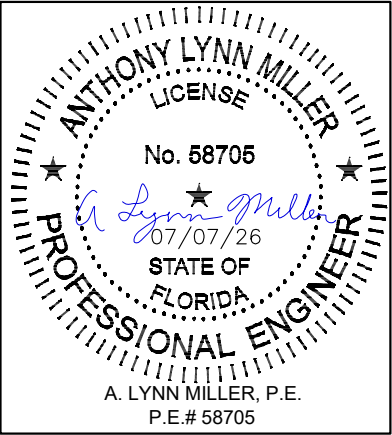
07/07/26

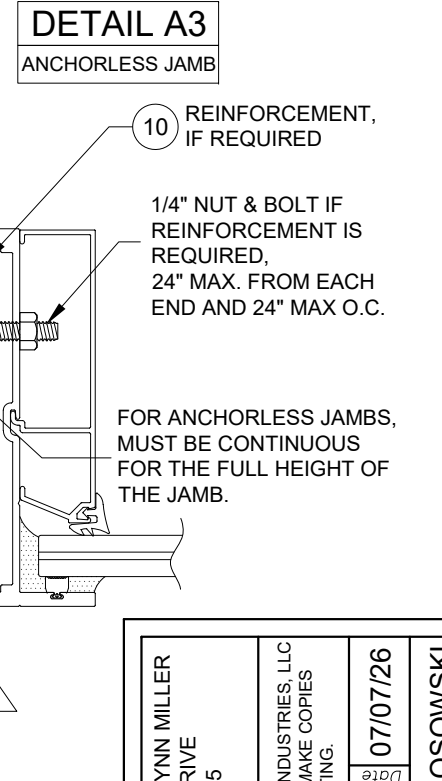
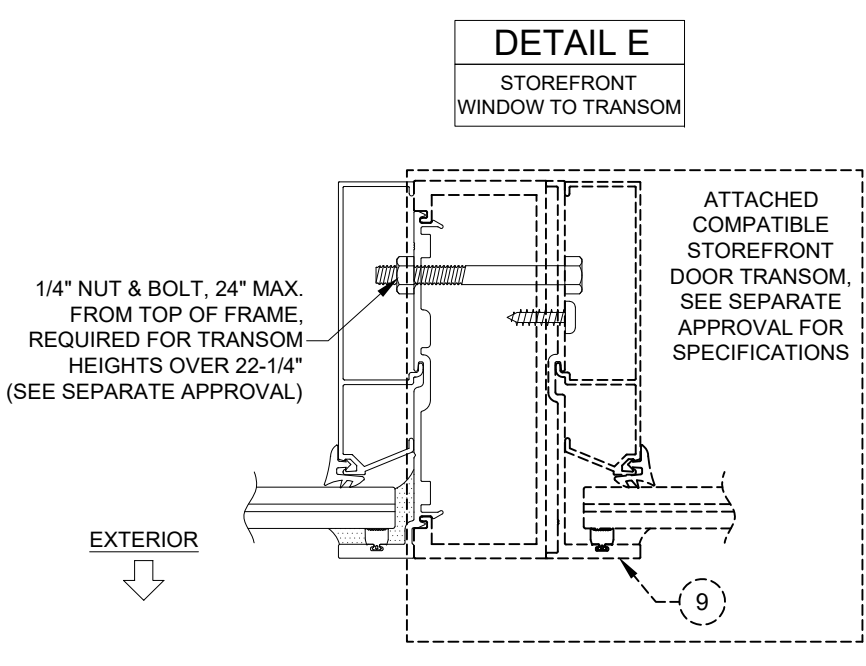
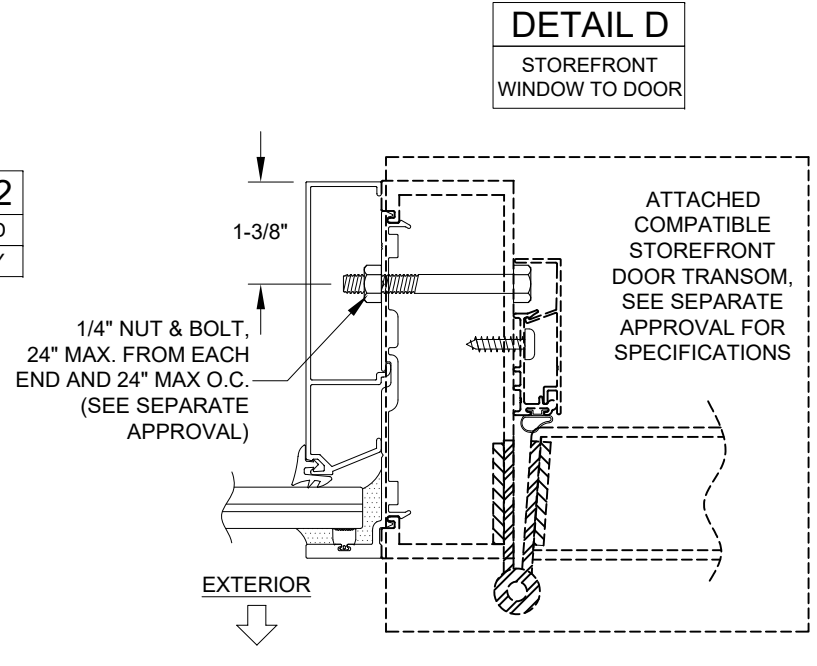
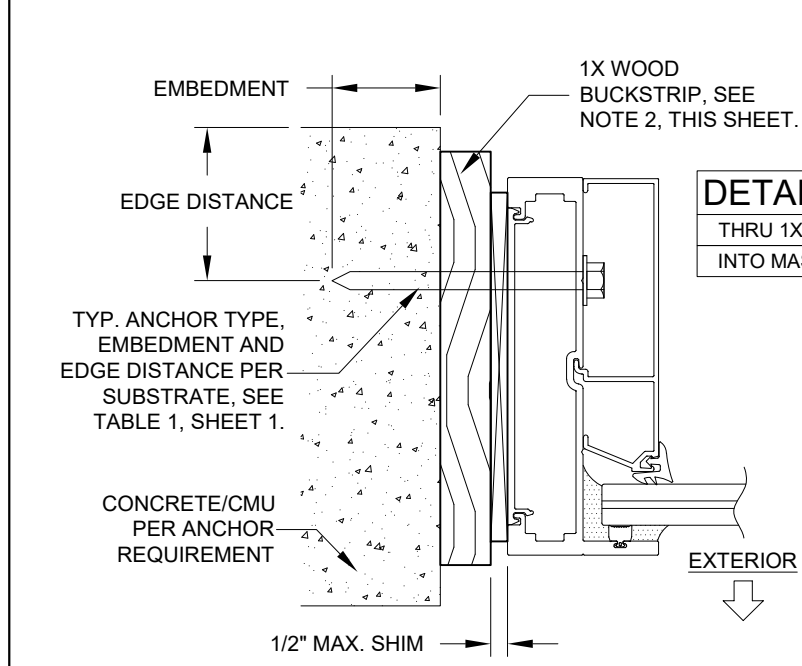
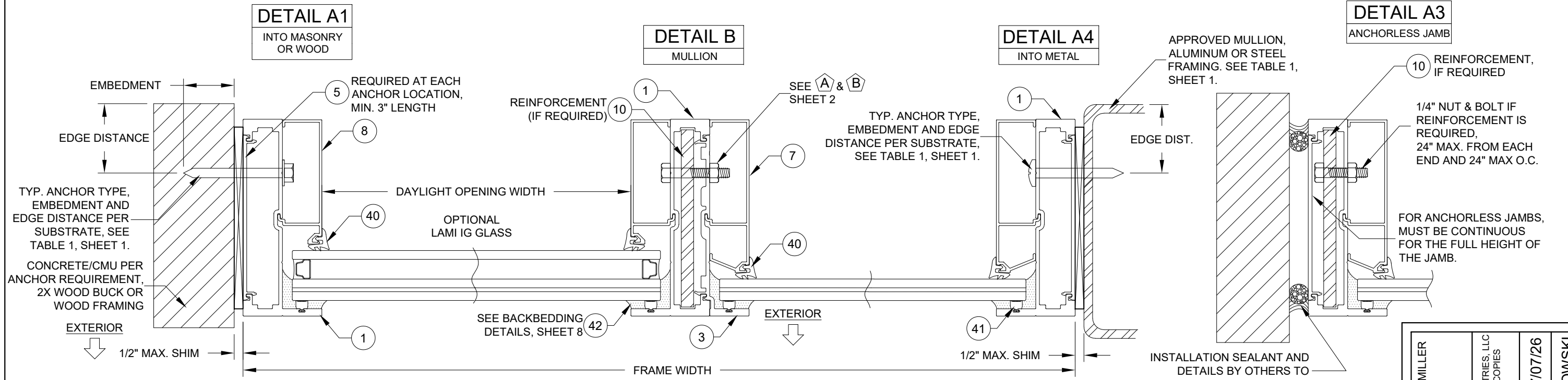
JENS ROSOWSKI

SS3520-LM-HVHZ

5 OF 10

SS3520





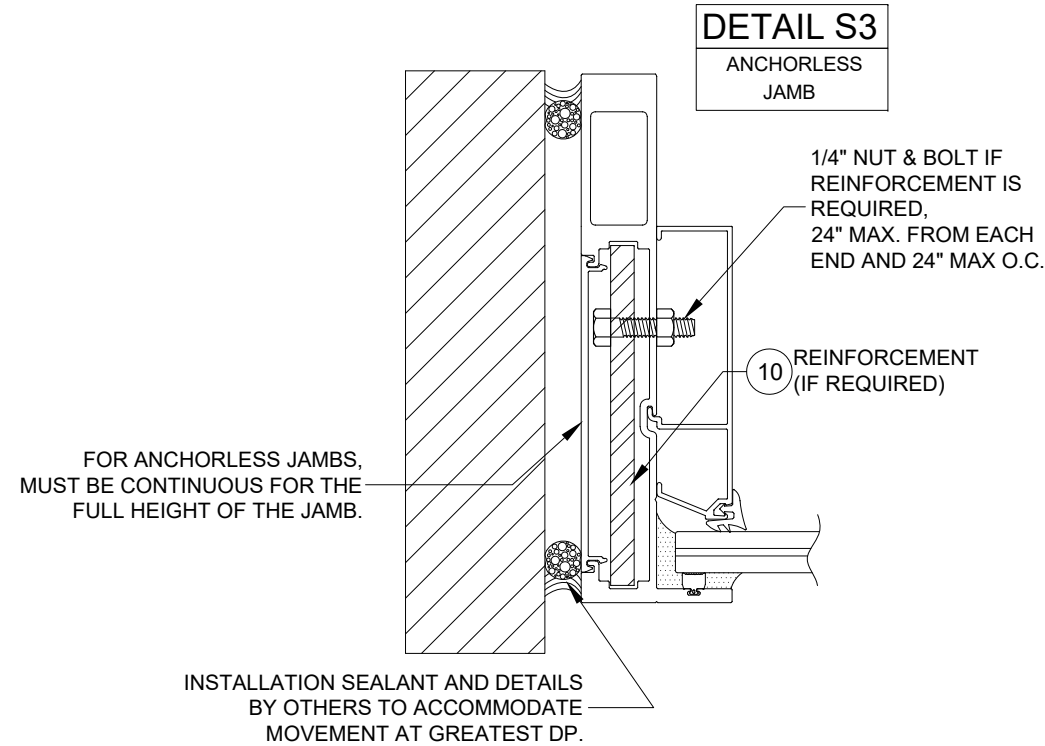
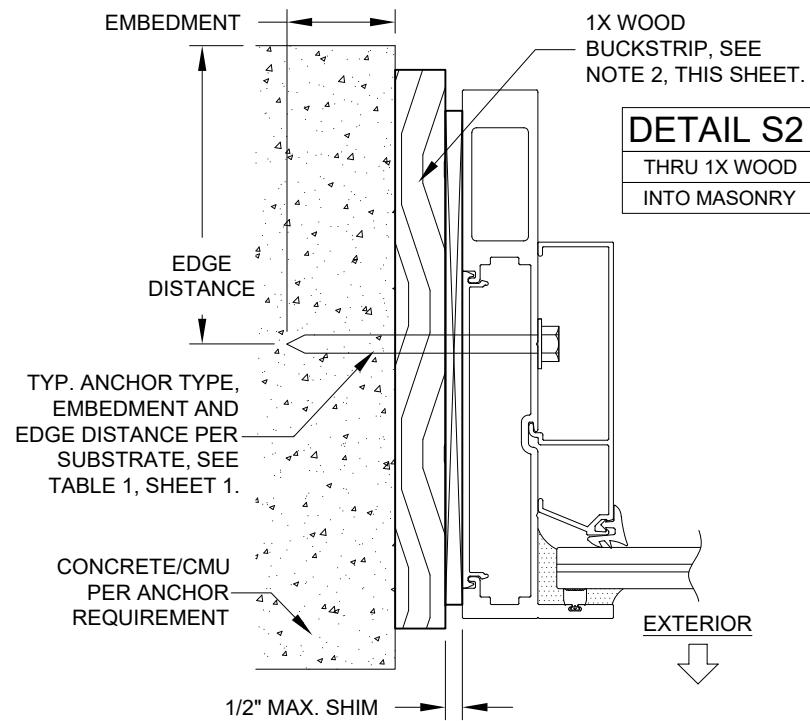
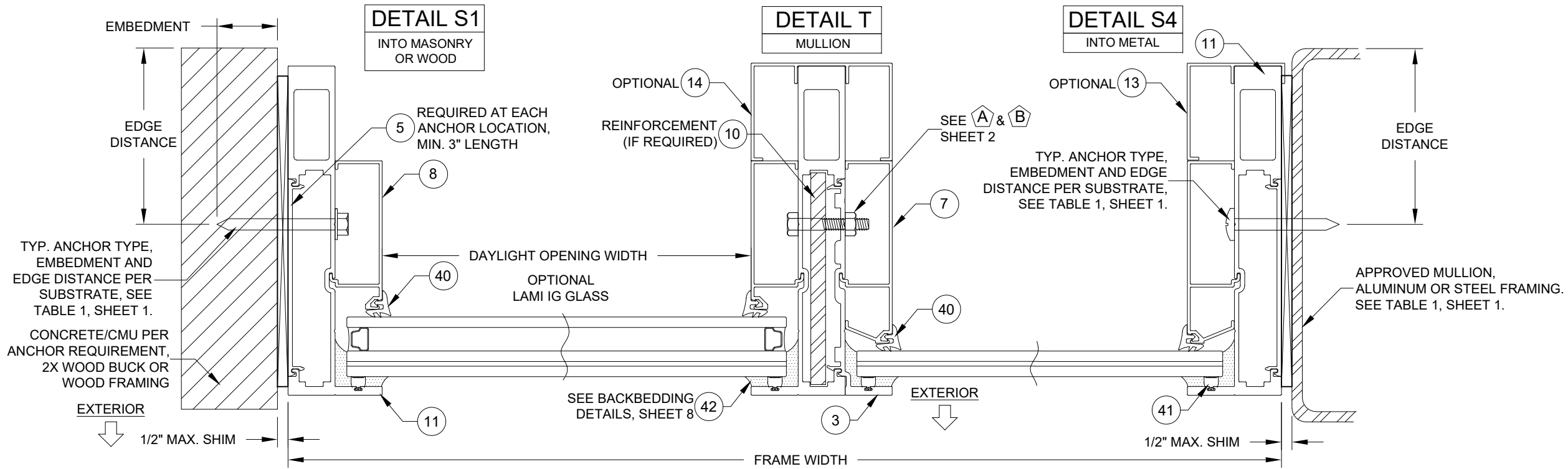
INSTALLATION NOTES:

1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS, FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW. ALL ANCHOR HEAD TYPES ARE ALLOWED.

2) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL. UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD. MAXIMUM SHIM THICKNESS TO BE 1/2".

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		REGISTRATION #29296		ALUM. STOREFRONT WINDOW SYSTEM Title		6 OF 10 Sheet
HORIZONTAL X-SECTIONS		SS3520		JENS ROSOWSKI		SS3520-LM-HVHZ

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LICENSE
No. 58705
07/07/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

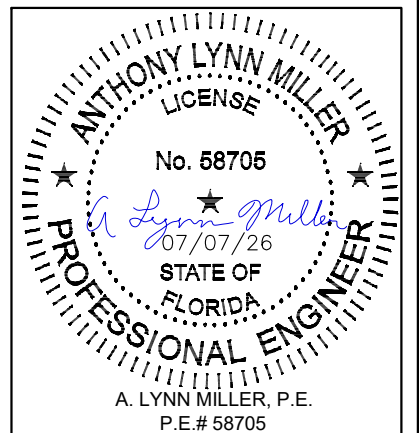


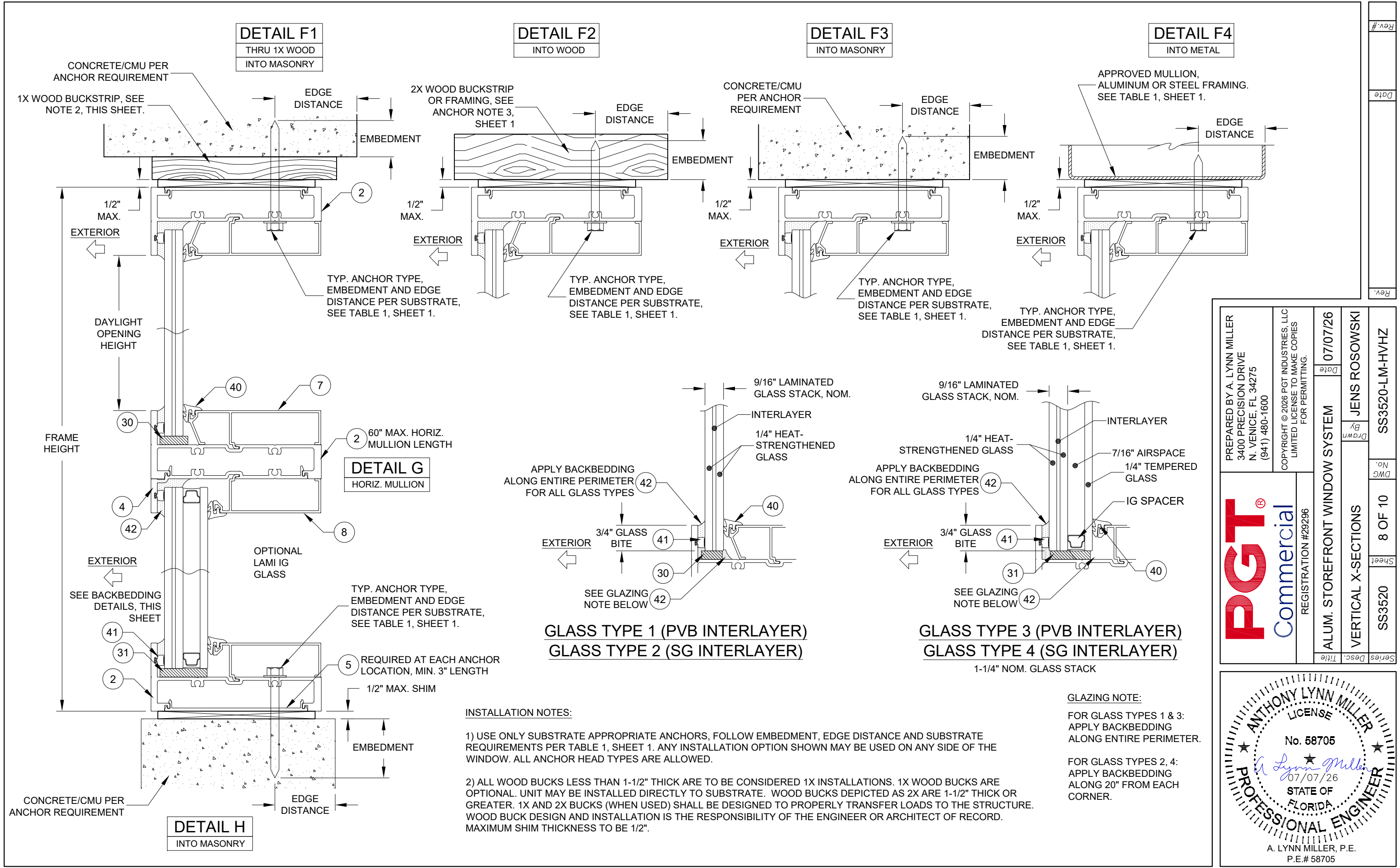
INSTALLATION NOTES:

1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS, FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW. ALL ANCHOR HEAD TYPES ARE ALLOWED.

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PGT Commercial REGISTRATION #29296		ALUM. STOREFRONT WINDOW SYSTEM Title		7 OF 10 Sheet	SS3520 Series	HORIZONTAL X-SECTIONS Desc.





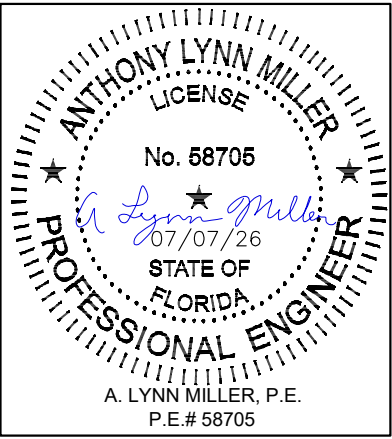
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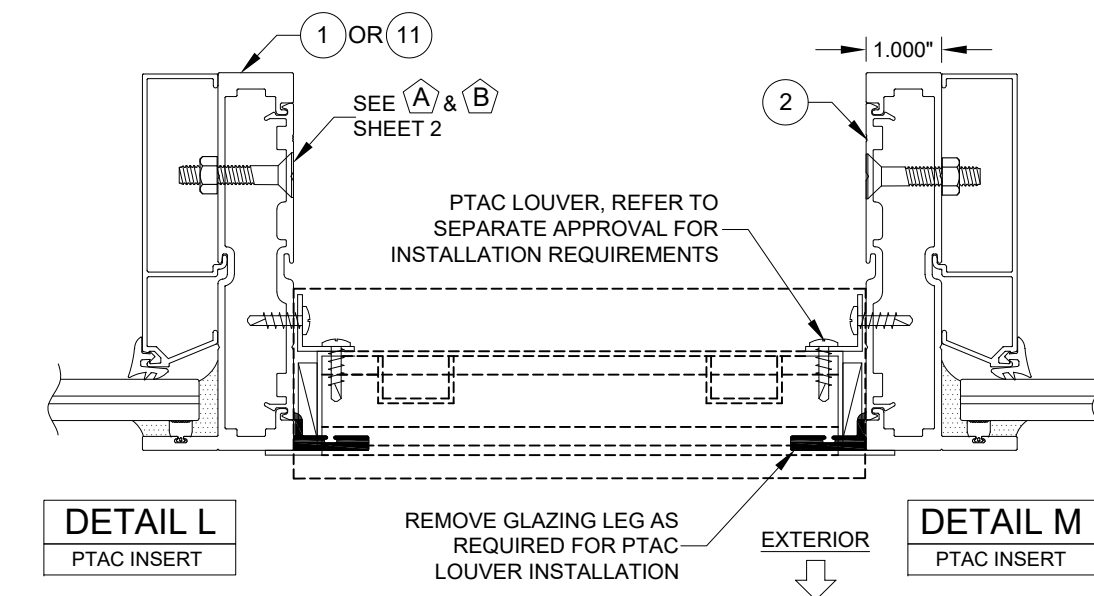
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GLAZING NOTE:

- FOR GLASS TYPES 1 & 3:
APPLY BACKBEDDING
ALONG ENTIRE PERIMETER.
- FOR GLASS TYPES 2, 4:
APPLY BACKBEDDING
ALONG 20" FROM EACH
CORNER.

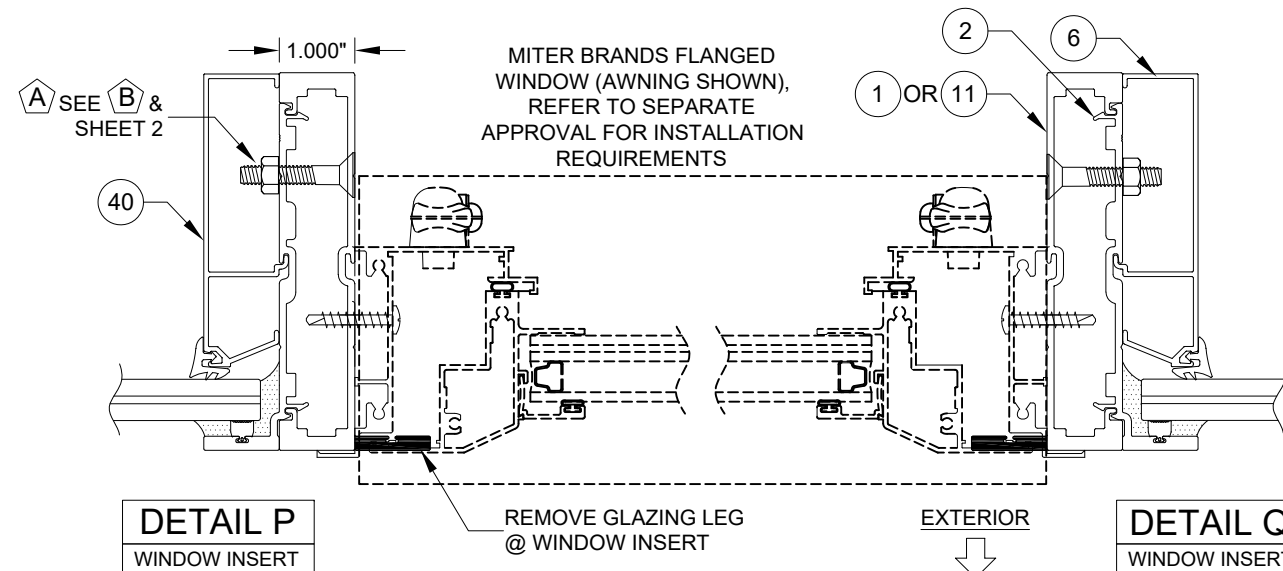
PGT[®] Commercial		REGISTRATION #29296		PREPARED BY A. LYNN MILLER 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		COPYRIGHT © 2026 PGT INDUSTRIES, LLC LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	
Title	ALUM. STOREFRONT WINDOW SYSTEM			Date	07/07/26		
Desc.	VERTICAL X-SECTIONS			Drawn By	JENS ROSOWSKI		
Series	SS3520	Sheet	8 OF 10		DWG No.	SS3520-LM-HVHZ	



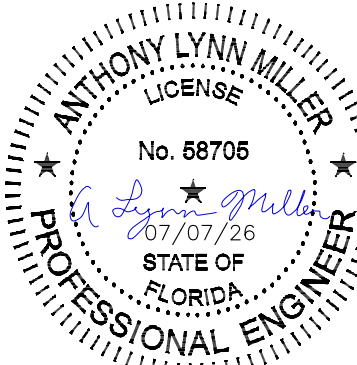


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REGISTRATION #29296		ALUM. STOREFRONT WINDOW SYSTEM		Date 07/07/26	
INSERT X-SECTIONS		Drawn By		JENS ROSOWSKI	
Series Desc.	SS3520	Sheet	9 OF 10	DWG No.	SS3520-LM-HVHZ



ANTHONY LYNN MILLER
 LICENSE
 No. 58705
 07/07/26
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
 P.E. # 58705

ASSEMBLY DETAILS
ALL DETAILS SHOWN FROM THE EXTERIOR

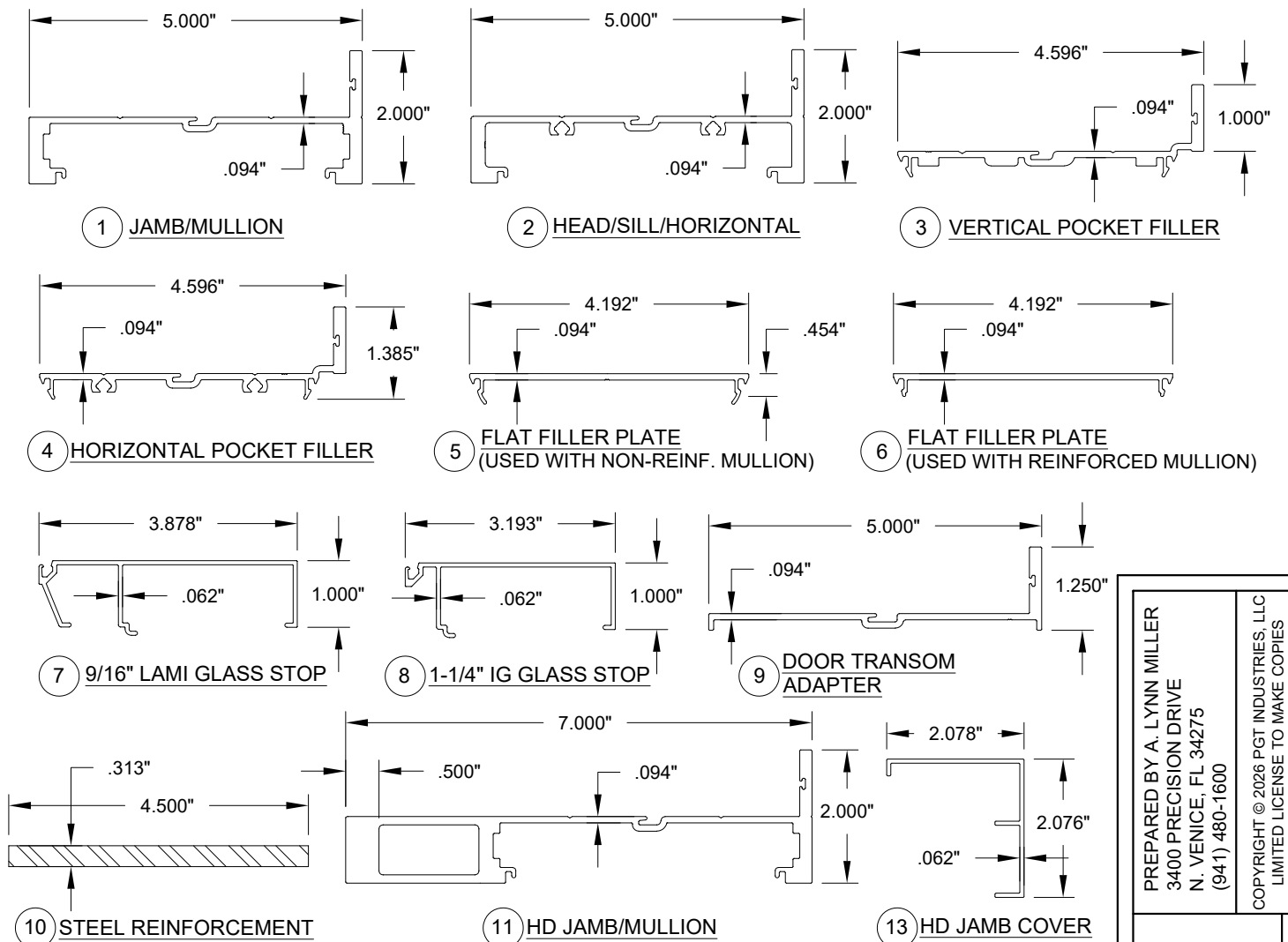
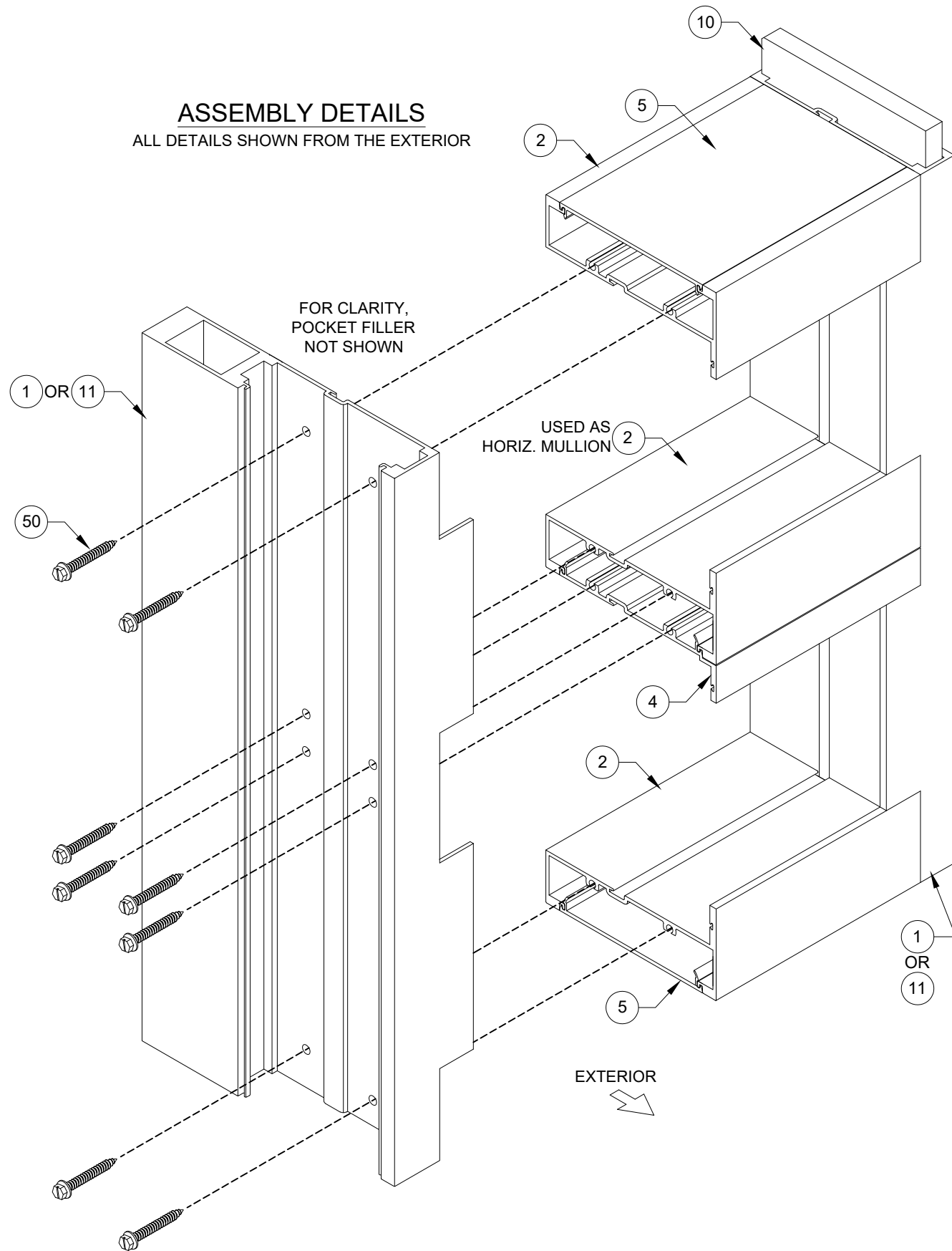


TABLE 10:

Item	Part #	Description	Material
1	206	Jamb/Mullion	6063-T6 Alum.
2	201	Head/Sill/Horizontal	6063-T6 Alum.
3	207B	Vertical Pocket Filler	6063-T6 Alum.
4	202	Horizontal Pocket Filler	6063-T6 Alum.
5	203	Flat Filler Plate (used with non-reinf. mullion)	6063-T6 Alum.
6	003	Flat Filler Plate (used with reinforced mullion)	6063-T6 Alum.
7	204	9/16" Lami Glass Stop	6063-T6 Alum.
8	205	1-1/4" IG Glass Stop	6063-T6 Alum.
9	212	Door Transom Adapter	6063-T6 Alum.
10	209	Steel Reinforcement	A36 Steel
11	208	HD Jamb/Mullion	6063-T6 Alum.
13	214	HD Jamb Cover	6063-T6 Alum.
14	213	HD Mullion Cover	6063-T6 Alum.
30	1652	Setting Block 3/16" x 7/16" x 4", Duro = 85 +/-5	EPDM
31	1704	IG Setting Block 3/16" x 1-3/32" x 4", Duro = 85 +/-5	EPDM
37	varies	Kommerling Kodispace 4SG TPS	varies
38	varies	Quanex Super Spacer	varies
39	varies	IG Spacer System	varies
40	006	Glass Stop Gasket (@ beading, duro. = 65 +/-5)	EPDM
41	007	Spacer Gasket (@ glazing leg, duro. = 80 +/-5)	Santoprene
42		Silicone Backbedding: Dow 791, 983, 995, GE7700	
50	010	Frame Assembly Screw (#12 x 1-1/2" Hex Washer)	Stainless Steel

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ALUM. STOREFRONT WINDOW SYSTEM

BOM & EXTRUSIONS

07/07/26

JENS ROSOWSKI

SS3520-LM-HVHZ

10 OF 10

SS3520

