Engineering Evaluation Report # 3520-08142026

Prepared by:
A. Lynn Miller, P.E.
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Manufacturer:
PGT Industries, LLC
3400 Precision Drive
N. Venice, FL 34275

Product Description:
SS-3520 Series Impact-resistant Aluminum Storefront Window System, (LM & SM), FL #46559

Compliance:
The above-mentioned product has been evaluated for compliance with the requirements of the Florida Department of Business and Professional Regulation for Statewide Acceptance per Rule 61 G20-3.005 method 1(d). The product listed herein complies with the requirements of the current Florida Building Code.

This product has been evaluated and is in compliance with the current Florida Building Code, including the “High Velocity Hurricane Zone” (HVHZ).

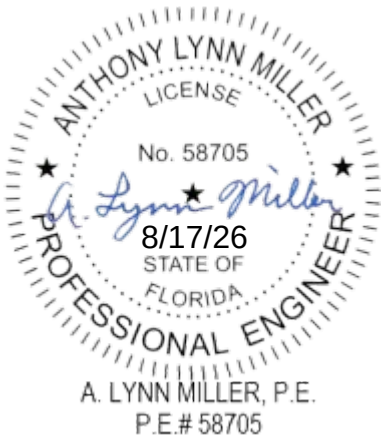
Supporting Technical Documentation:
1. Approval document: drawing number SS3520-LM-HVHZ signed and sealed by A. Lynn Miller, P.E.

2. Test Report(s) No. FTL 7137 & 7208 signed and sealed by Marlin D. Brinson, P.E.
Test Report(s) No. FTL 8717, 10283, 17-7007, 17-7538, 17-7538-R02 & 20-2108.1-5, signed and sealed by Idalmis Ortega, P.E.,
Fenestration Testing Laboratories, Medley, FL 33166
AAMA 501-2015
TAS 201-94 Large Missile Impact Test
TAS 202-94 Uniform Static Air Pressure Test
TAS 203-94 Cyclic Pressure Loading Test

3. Anchor calculations, signed and sealed by A. Lynn Miller, P.E. 8/17/26

4. Miami-Dade RER Product Control Section NOA’s; Trosifol PVB and SentryGlas Interlayers by Kuraray America, Inc.

Limitations and Conditions of use:
• Units must be glazed per ASTM E1300, refer to approval document for glazing details.
• This product is rated to be used in the HVHZ.
• This product is impact resistant and does not require impact protection in wind borne debris regions.
• Units must be installed in accordance with the approval document.



SERIES SS-3520
IMPACT-RESISTANT STOREFRONT WINDOW SYSTEM

FLORIDA PRODUCT APPROVAL # 46559

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 5/8x5 Carbon Steel or 18-8 316, 410 SS	Southern Pine (SG=0.55)	1"	1-3/8"
	Aluminum, 6063-T5*	3/8"	1/2"
	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 Aggie-Grip+	Grout-Filled CMU, (ASTM C-90)	2"	2"
	Concrete, (min. 3.52 ksi)	2"	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.

TABLE 2

	Glass Types (Used Exterior to Interior)
1	Laml: 1/4" HS, 0.090" PVB, 1/4" HS
2	Laml: 1/4" HS, 0.090" SGP, 1/4" HS
3	Laml: 1/2" HS, 0.090" PVB, 1/4" HS, AIRSPACE: 1/2" TP (CS)*
4	Laml: HS, 1/4" HS, 0.090" SG, 1/4" HS, AIRSPACE: 1/2" TP (CS)*

"HS" = HEAT STRENGTHENED
"TP" = TEMPERED
"PVB" = 0.090" TROSIFOL PVB BY KURARAY AMERICA, INC.
"SG" = 0.090" SENTRYGLAS BY KURARAY AMERICA, INC.

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

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.

DESIGN PRESSURE RATING
SEE TABLES 3 & 4

WATER TEST PRESSURE
15% OF (+) DP

IMPACT RATING
LARGE AND SMALL MISSILE IMPACT RESISTANT MISSILE LEVEL D

GENERAL NOTES, INSTRUCTIONS.....1
ANCHOR TYPES.....1
ELEVATIONS.....2-3
GLASS DP.....4
VERTICAL MULLION DP.....5
HORIZONTAL SECTIONS.....5-6
VERTICAL SECTIONS.....7
PTAC & WINDOW INSERT SECTIONS.....8
GLAZING DETAILS.....9
CORNER DETAILS, EXTRUSIONS & BOM.....10

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 R322 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.

DAYLITE OPENING (DLO) FORMULAS
SEE SHEET 4

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3600 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

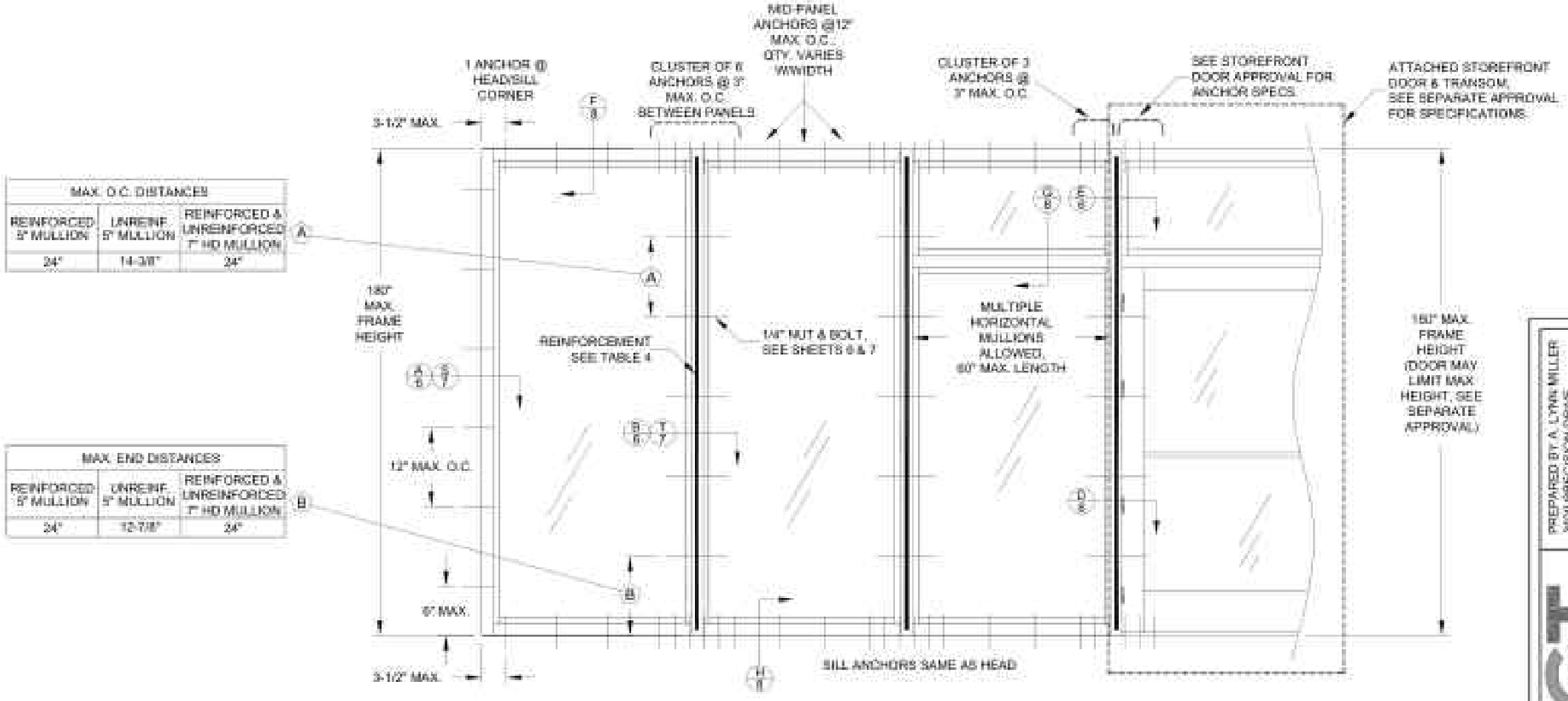
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07/07/26
JENS ROSOWSKI
SS3520-LM-HVHZ

ALUM. STOREFRONT WINDOW SYSTEM
NOTES & ANCHOR TABLE
SS3520
1 OF 10

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



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.

PREPARED BY A. LYNN MILLER
3800 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

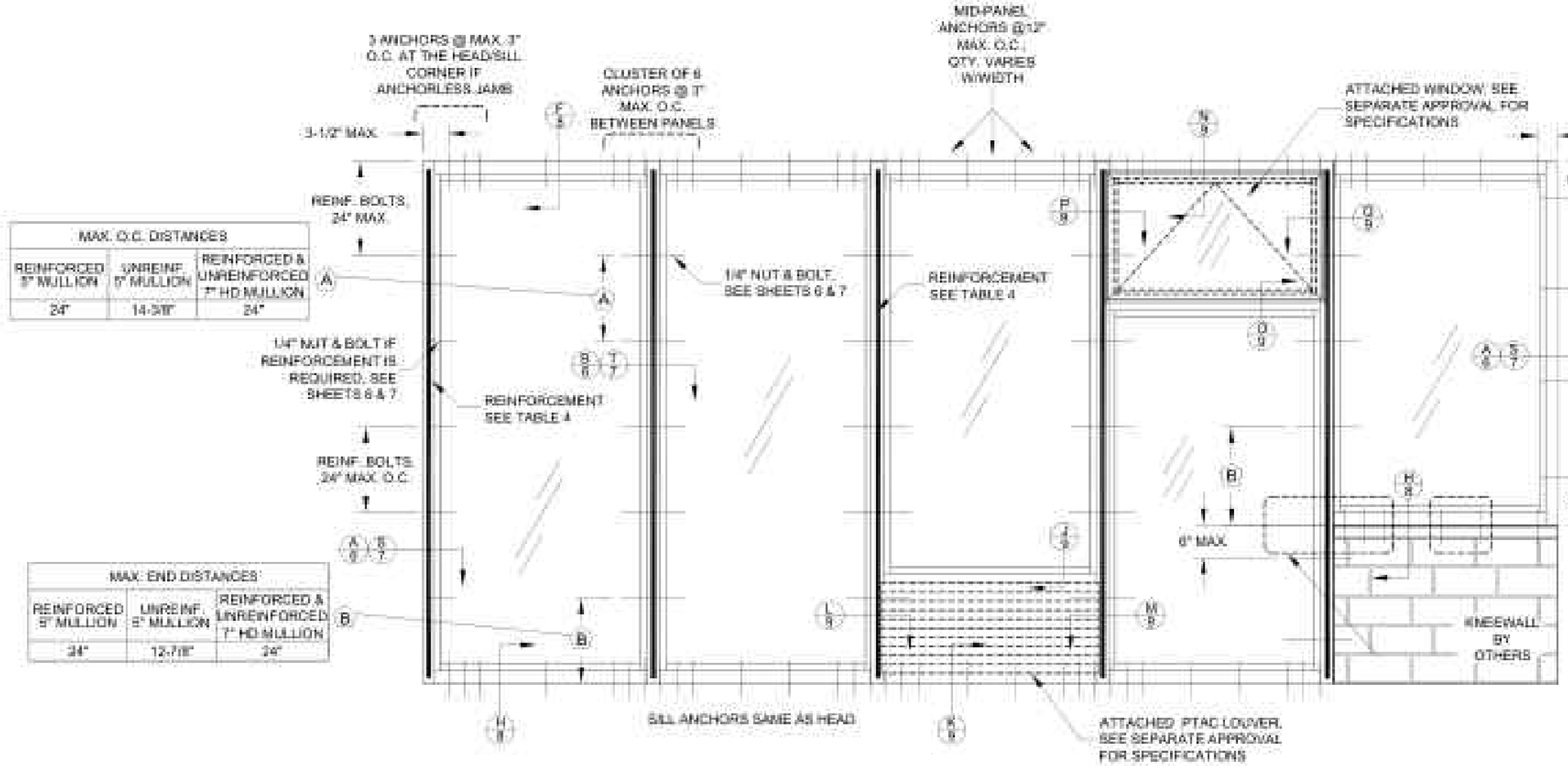
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ALUM. STOREFRONT WINDOW SYSTEM
ELEVATION A
SS3520

07/07/26
JENS ROSOWSKI
SS3520-LM-HWHZ
2 OF 10

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



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 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.

PREPARED BY A. LYNN MILLER
3600 PRECISION DRIVE
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07/07/26

JENS ROSOWSKI

SS3520-LM-HMHZ

PGT® Commercial

REGISTRATION #32050

ALUM. STOREFRONT WINDOW SYSTEM

ELEVATION B

SS3520

3 OF 10

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

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

TABLE 3:

Min. DP due to Glass Limitations, psf

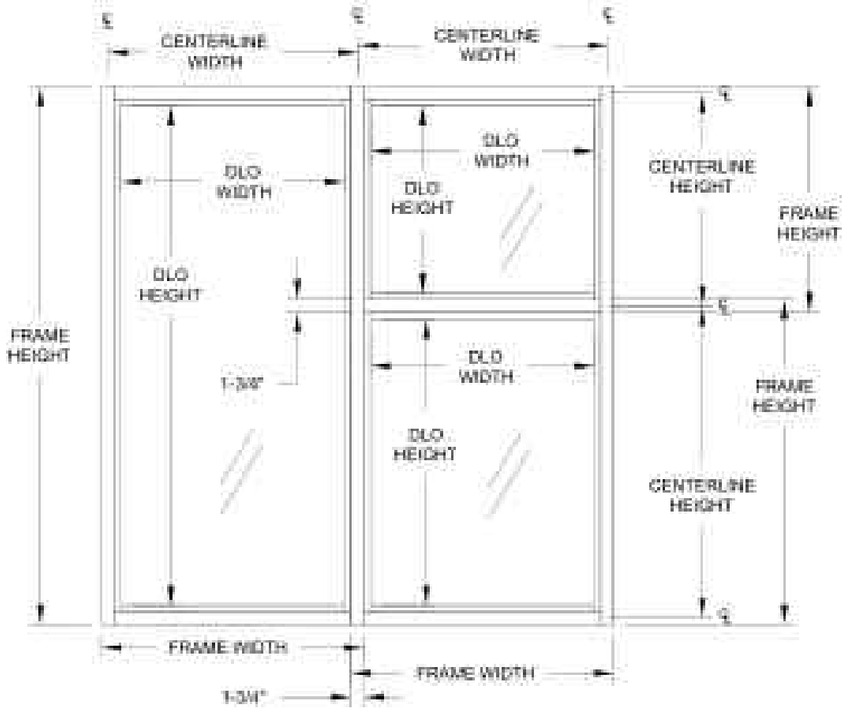
Centerline Width	Frame Height	Glass Types 1 & 3	Glass Types 2 & 4
24"	42"	+70.00	+80.00
30"		+70.00	+80.00
36"		+70.00	+80.00
42"		+70.00	+80.00
48"		+70.00	+80.00
54"		+70.00	+80.00
60"		+70.00	+80.00
66"		+70.00	+80.00
72"		+70.00	+80.00
78"		+70.00	+80.00
84"		+70.00	+80.00
90"		+70.00	+80.00
96"		+70.00	+80.00
102"			+80.00
108"			+80.00
114"			+80.00
120"			+80.00
126"			+80.00
132"			+80.00
138"			+80.00
144"			+80.00
24"	62"	+70.00	+80.00
30"		+70.00	+80.00
36"		+70.00	+80.00
42"		+70.00	+80.00
48"		+70.00	+80.00
54"		+70.00	+80.00
60"		+70.00	+80.00
66"		+70.00	+80.00
72"		+70.00	+80.00
78"		+70.00	+80.00
84"		+70.00	+80.00
90"		+70.00	+80.00
96"		+70.00	+80.00
102"			+80.00
108"			+80.00
114"			+80.00
120"			+80.00
126"			+80.00
132"			+80.00
138"			+80.00
144"			+80.00
24"	74"	+70.00	+80.00
30"		+70.00	+80.00
36"		+70.00	+80.00
42"		+70.00	+80.00
48"		+70.00	+80.00
54"		+70.00	+80.00
60"		+70.00	+80.00
66"		+70.00	+80.00
72"		+70.00	+80.00
78"		+70.00	+80.00
84"		+70.00	+80.00
90"		+70.00	+80.00
96"		+70.00	+80.00
102"			+80.00
108"			+80.00
114"			+80.00
120"			+80.00
126"			+80.00
132"			+80.00
138"			+80.00
144"			+80.00

Min. DP due to Glass Limitations, psf

Centerline Width	Frame Height	Glass Types 1 & 3	Glass Types 2 & 4
24"	86"	+70.00	+80.00
30"		+70.00	+80.00
36"		+70.00	+80.00
42"		+70.00	+80.00
48"		+70.00	+80.00
54"		+70.00	+80.00
60"		+70.00	+80.00
66"		+70.00	+80.00
72"		+70.00	+80.00
78"		+70.00	+80.00
84"		+70.00	+80.00
90"		+70.00	+80.00
96"		+70.00	+80.00
102"			+80.00
108"			+80.00
114"			+80.00
120"			+80.00
126"			+80.00
132"			+80.00
138"			+80.00
144"			+80.00
24"	98"	+70.00	+80.00
30"		+70.00	+80.00
36"		+70.00	+80.00
42"		+70.00	+80.00
48"		+70.00	+80.00
54"		+70.00	+80.00
60"		+70.00	+80.00
66"		+70.00	+80.00
72"		+70.00	+80.00
78"		+70.00	+80.00
84"		+70.00	+80.00
90"		+70.00	+80.00
96"		+70.00	+80.00
102"			+80.00
108"			+80.00
114"			+80.00
120"			+80.00
126"			+80.00
132"			+80.00
138"			+80.00
144"			+80.00

Min. DP due to Glass Limitations, psf

Centerline Width	Frame Height	Glass Types 1 & 3	Glass Types 2 & 4
24"	120"	+70.00	+80.00
30"		+70.00	+80.00
36"		+70.00	+80.00
42"		+70.00	+80.00
48"		+70.00	+80.00
54"		+70.00	+80.00
60"		+70.00	+80.00
66"		+70.00	+80.00
72"		+70.00	+80.00
78"		+70.00	+80.00
84"		+70.00	+80.00
90"		+70.00	+80.00
96"		+70.00	+80.00
102"			+80.00
108"			+80.00
114"			+80.00
120"			+80.00
126"			+80.00
132"			+80.00
138"			+80.00
144"			+80.00
24"	144"	+70.00	+80.00
30"		+70.00	+80.00
36"		+70.00	+80.00
42"		+70.00	+80.00
48"		+70.00	+80.00
54"		+70.00	+80.00
60"		+70.00	+80.00
66"		+70.00	+80.00
72"		+70.00	+80.00
78"		+70.00	+80.00
84"		+70.00	+80.00
90"		+70.00	+80.00
96"		+70.00	+80.00
102"			+80.00
108"			+80.00
114"			+80.00
120"			+80.00
126"			+80.00
132"			+80.00
138"			+80.00
144"			+80.00
24"	168"	+70.00	+80.00
30"		+70.00	+80.00
36"		+70.00	+80.00
42"		+70.00	+80.00
48"		+70.00	+80.00
54"		+70.00	+80.00
60"		+70.00	+80.00
66"		+70.00	+80.00
72"		+70.00	+80.00
78"		+70.00	+80.00
84"		+70.00	+80.00
90"		+70.00	+80.00
96"		+70.00	+80.00
102"			+80.00
108"			+80.00
114"			+80.00
120"			+80.00
126"			+80.00
132"			+80.00
138"			+80.00
144"			+80.00



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, FTAC 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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REGISTRATION #25250

ALUM. STOREFRONT WINDOW SYSTEM

TABLE 2

JENS ROSOWSKI

07/07/26

SS3520-LM-HWHZ

SS3520

4 OF 10

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

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

TABLE 6

Mullion DP, psf

Average Centerline Width	Frame Height	0° Unreinforced Mullion	0° Reinforced Mullion	7° Unreinforced HD Mullion	7° Reinforced HD Mullion
24"	42"	+70/-70	+90/-120	+70/-70	+90/-90
30"		+70/-60	+90/-120	+70/-70	+90/-90
36"		+70/-50	+90/-120	+70/-70	+90/-90
42"		+70/-50	+90/-120	+70/-70	+90/-90
48"		+70/-50	+90/-120	+70/-70	+90/-90
54"		+70/-50	+90/-120	+70/-70	+90/-90
60"		+70/-50	+90/-120	+70/-70	+90/-90
66"		+70/-50	+90/-120	+70/-70	+90/-90
72"		+70/-50	+90/-120	+70/-70	+90/-90
78"		+70/-50	+90/-120	+70/-70	+90/-90
84"		+70/-50	+90/-120	+70/-70	+90/-90
90"		+70/-50	+90/-120	+70/-70	+90/-90
96"		+70/-50	+90/-120	+70/-70	+90/-90
102"			+90/-120	+70/-70	+90/-90
108"			+90/-120	+70/-70	+90/-90
114"			+90/-120	+70/-70	+90/-90
120"			+90/-120	+70/-70	+90/-90
126"					+90/-90
132"					+90/-90
24"	66"	+70/-70	+90/-120	+70/-70	+90/-90
30"		+70/-70	+90/-120	+70/-70	+90/-90
36"		+70/-70	+90/-120	+70/-70	+90/-90
42"		+70/-70	+90/-120	+70/-70	+90/-90
48"		+70/-70	+90/-120	+70/-70	+90/-90
54"		+70/-70	+90/-120	+70/-70	+90/-90
60"		+70/-70	+90/-120	+70/-70	+90/-90
66"		+70/-70	+90/-120	+70/-70	+90/-90
72"		+70/-70	+90/-120	+70/-70	+90/-90
78"		+70/-70	+90/-120	+70/-70	+90/-90
84"			+90/-120	+70/-70	+90/-90
90"			+90/-120	+70/-70	+90/-90
96"			+90/-120	+70/-70	+90/-90
102"			+90/-120	+70/-70	+90/-90
108"			+90/-120	+70/-70	+90/-90
114"			+90/-120	+70/-70	+90/-90
120"			+90/-120	+70/-70	+90/-90
126"					+90/-90
132"					+90/-90
24"	90"	+70/-70	+90/-120	+70/-70	+90/-90
30"		+70/-70	+90/-120	+70/-70	+90/-90
36"		+70/-70	+90/-120	+70/-70	+90/-90
42"		+70/-70	+90/-120	+70/-70	+90/-90
48"		+70/-70	+90/-120	+70/-70	+90/-90
54"		+70/-70	+90/-120	+70/-70	+90/-90
60"		+70/-70	+90/-120	+70/-70	+90/-90
66"		+70/-70	+90/-120	+70/-70	+90/-90
72"		+70/-70	+90/-120	+70/-70	+90/-90
78"		+70/-70	+90/-120	+70/-70	+90/-90
84"			+90/-120	+70/-70	+90/-90
90"			+90/-120	+70/-70	+90/-90
96"			+90/-120	+70/-70	+90/-90
102"			+90/-120	+70/-70	+90/-90
108"			+90/-120	+70/-70	+90/-90
114"			+90/-120	+70/-70	+90/-90
120"			+90/-120	+70/-70	+90/-90
126"					+90/-90
132"					+90/-90

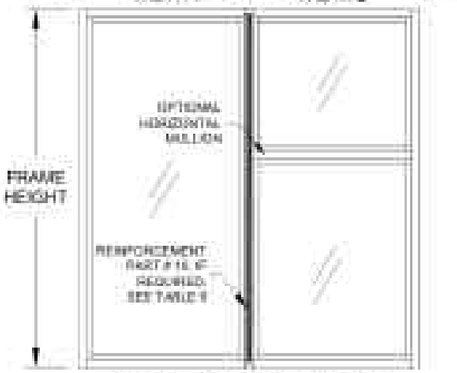
Mullion DP, psf

Average Centerline Width	Frame Height	0° Unreinforced Mullion	0° Reinforced Mullion	7° Unreinforced HD Mullion	7° Reinforced HD Mullion
24"	42"	+70/-70	+90/-120	+70/-70	+90/-90
30"		+70/-70	+90/-120	+70/-70	+90/-90
36"		+70/-70	+90/-120	+70/-70	+90/-90
42"		+70/-70	+90/-120	+70/-70	+90/-90
48"		+70/-70	+90/-120	+70/-70	+90/-90
54"		+70/-70	+90/-120	+70/-70	+90/-90
60"		+70/-70	+90/-120	+70/-70	+90/-90
66"		+70/-70	+90/-120	+70/-70	+90/-90
72"		+70/-70	+90/-120	+70/-70	+90/-90
78"		+70/-70	+90/-120	+70/-70	+90/-90
84"		+70/-70	+90/-120	+70/-70	+90/-90
90"		+70/-70	+90/-120	+70/-70	+90/-90
96"		+70/-70	+90/-120	+70/-70	+90/-90
102"		+70/-70	+90/-120	+70/-70	+90/-90
108"		+70/-70	+90/-120	+70/-70	+90/-90
114"		+70/-70	+90/-120	+70/-70	+90/-90
120"		+70/-70	+90/-120	+70/-70	+90/-90
126"		+70/-70	+90/-120	+70/-70	+90/-90
132"		+70/-70	+90/-120	+70/-70	+90/-90
24"	66"	+70/-70	+90/-120	+70/-70	+90/-90
30"		+70/-70	+90/-120	+70/-70	+90/-90
36"		+70/-70	+90/-120	+70/-70	+90/-90
42"		+70/-70	+90/-120	+70/-70	+90/-90
48"		+70/-70	+90/-120	+70/-70	+90/-90
54"		+70/-70	+90/-120	+70/-70	+90/-90
60"		+70/-70	+90/-120	+70/-70	+90/-90
66"		+70/-70	+90/-120	+70/-70	+90/-90
72"		+70/-70	+90/-120	+70/-70	+90/-90
78"		+70/-70	+90/-120	+70/-70	+90/-90
84"		+70/-70	+90/-120	+70/-70	+90/-90
90"		+70/-70	+90/-120	+70/-70	+90/-90
96"		+70/-70	+90/-120	+70/-70	+90/-90
102"		+70/-70	+90/-120	+70/-70	+90/-90
108"		+70/-70	+90/-120	+70/-70	+90/-90
114"		+70/-70	+90/-120	+70/-70	+90/-90
120"		+70/-70	+90/-120	+70/-70	+90/-90
126"		+70/-70	+90/-120	+70/-70	+90/-90
132"		+70/-70	+90/-120	+70/-70	+90/-90

Mullion DP, psf

Average Centerline Width	Frame Height	0° Unreinforced Mullion	0° Reinforced Mullion	7° Unreinforced HD Mullion	7° Reinforced HD Mullion
24"	42"	+70/-70	+90/-120	+70/-70	+90/-90
30"		+70/-70	+90/-120	+70/-70	+90/-90
36"		+70/-70	+90/-120	+70/-70	+90/-90
42"		+70/-70	+90/-120	+70/-70	+90/-90
48"		+70/-70	+90/-120	+70/-70	+90/-90
54"		+70/-70	+90/-120	+70/-70	+90/-90
60"		+70/-70	+90/-120	+70/-70	+90/-90
66"		+70/-70	+90/-120	+70/-70	+90/-90
72"		+70/-70	+90/-120	+70/-70	+90/-90
78"		+70/-70	+90/-120	+70/-70	+90/-90
84"		+70/-70	+90/-120	+70/-70	+90/-90
90"		+70/-70	+90/-120	+70/-70	+90/-90
96"		+70/-70	+90/-120	+70/-70	+90/-90
102"		+70/-70	+90/-120	+70/-70	+90/-90
108"		+70/-70	+90/-120	+70/-70	+90/-90
114"		+70/-70	+90/-120	+70/-70	+90/-90
120"		+70/-70	+90/-120	+70/-70	+90/-90
126"		+70/-70	+90/-120	+70/-70	+90/-90
132"		+70/-70	+90/-120	+70/-70	+90/-90
24"	66"	+70/-70	+90/-120	+70/-70	+90/-90
30"		+70/-70	+90/-120	+70/-70	+90/-90
36"		+70/-70	+90/-120	+70/-70	+90/-90
42"		+70/-70	+90/-120	+70/-70	+90/-90
48"		+70/-70	+90/-120	+70/-70	+90/-90
54"		+70/-70	+90/-120	+70/-70	+90/-90
60"		+70/-70	+90/-120	+70/-70	+90/-90
66"		+70/-70	+90/-120	+70/-70	+90/-90
72"		+70/-70	+90/-120	+70/-70	+90/-90
78"		+70/-70	+90/-120	+70/-70	+90/-90
84"		+70/-70	+90/-120	+70/-70	+90/-90
90"		+70/-70	+90/-120	+70/-70	+90/-90
96"		+70/-70	+90/-120	+70/-70	+90/-90
102"		+70/-70	+90/-120	+70/-70	+90/-90
108"		+70/-70	+90/-120	+70/-70	+90/-90
114"		+70/-70	+90/-120	+70/-70	+90/-90
120"		+70/-70	+90/-120	+70/-70	+90/-90
126"		+70/-70	+90/-120	+70/-70	+90/-90
132"		+70/-70	+90/-120	+70/-70	+90/-90

AVERAGE CENTERLINE WIDTH = (CENTERLINE WIDTH 1 + CENTERLINE WIDTH 2) / 2



INTERIOR MULLIONS

AVERAGE CENTERLINE WIDTH = (CENTERLINE WIDTH 1) / 2



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.

PREPARED BY A. LYNN MILLER
SAGUI PRECISION DRIVE
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ALUM. STOREFRONT WINDOW SYSTEM

TABLE 9

07/07/26

JENS ROSOWSKI

SS3520-LM-HMHZ

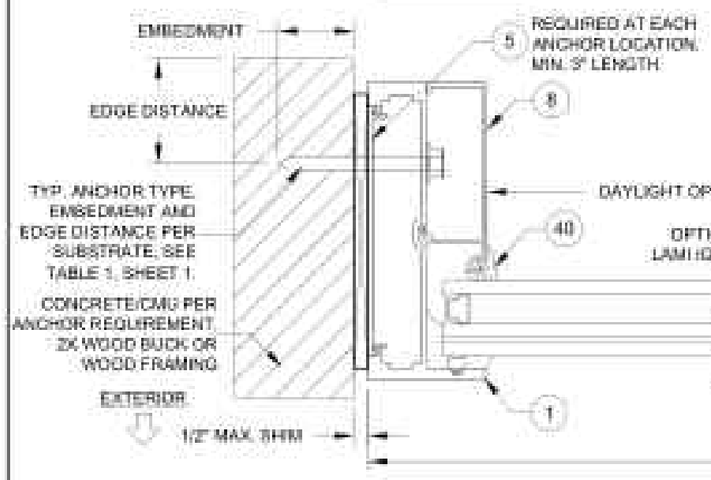
SS3520

5 OF 10

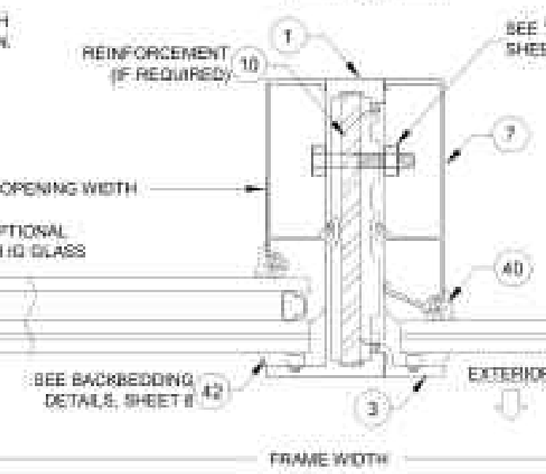
ANTHONY LYNN MILLER
LICENSE
No. 58706
07/07/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58706

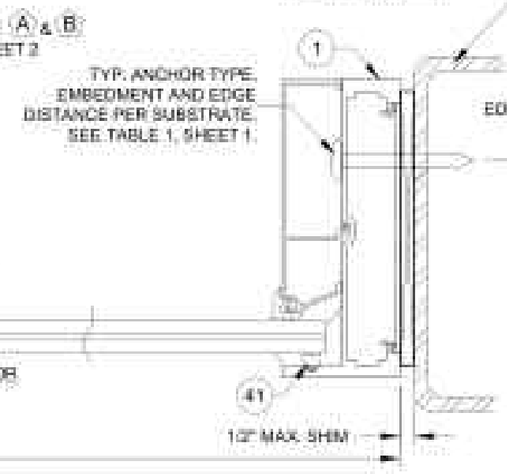
DETAIL A1
INTO MASONRY OR WOOD



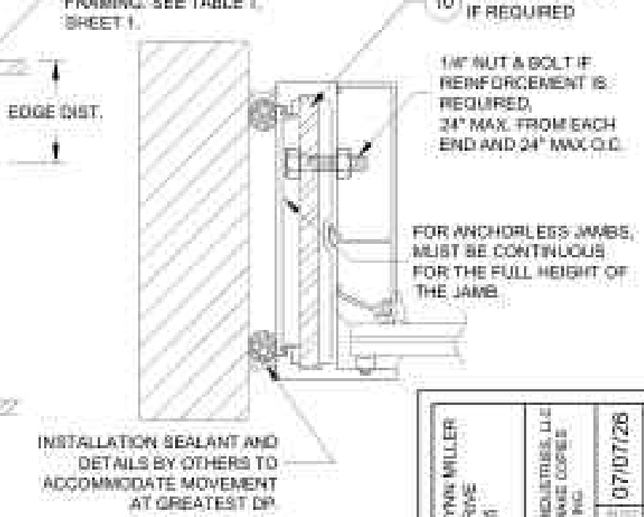
DETAIL B
MULLION



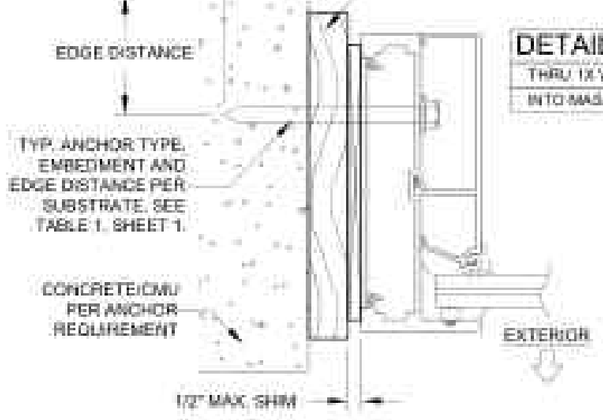
DETAIL A4
INTO METAL



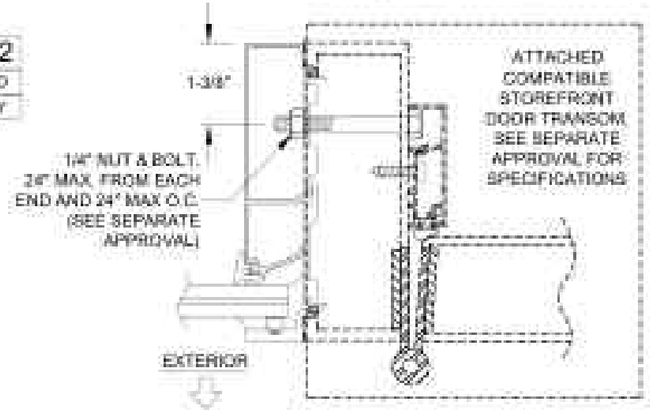
DETAIL A3
ANCHORLESS JAMB



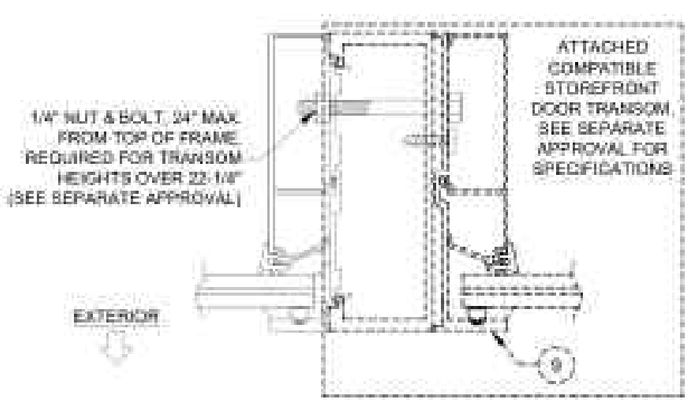
DETAIL A2
THRU 1X WOOD INTO MASONRY



DETAIL D
STOREFRONT WINDOW TO DOOR



DETAIL E
STOREFRONT WINDOW TO TRANSOM



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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07/07/26

JENS ROSOWSKI

SS3520-LM-HMHZ

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ALUM. STOREFRONT WINDOW SYSTEM

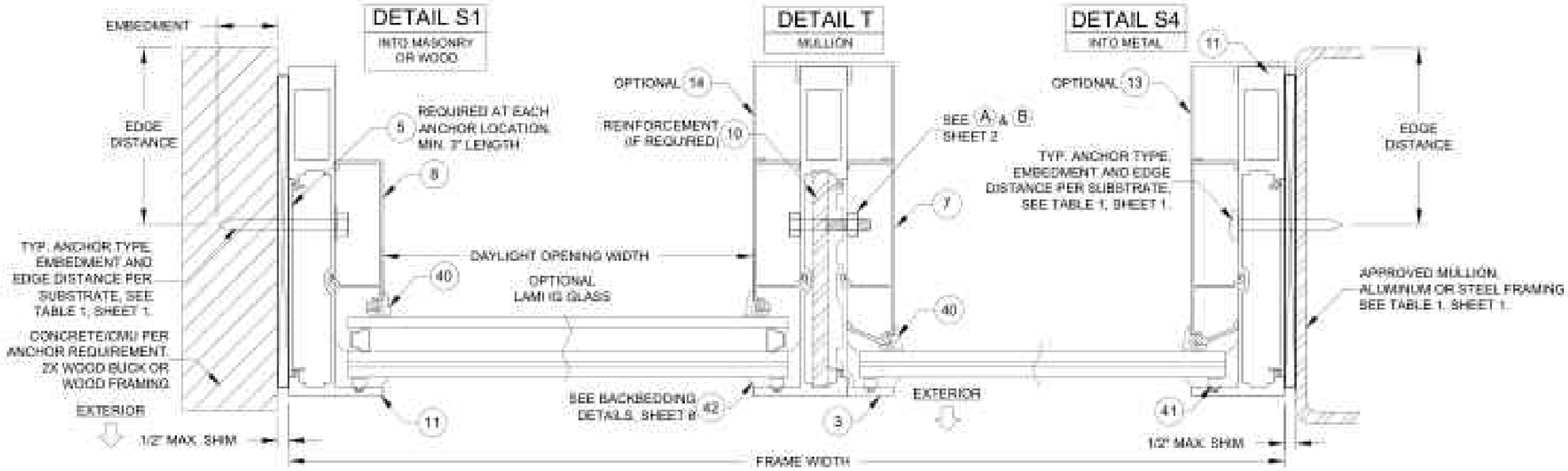
HORIZONTAL X-SECTIONS

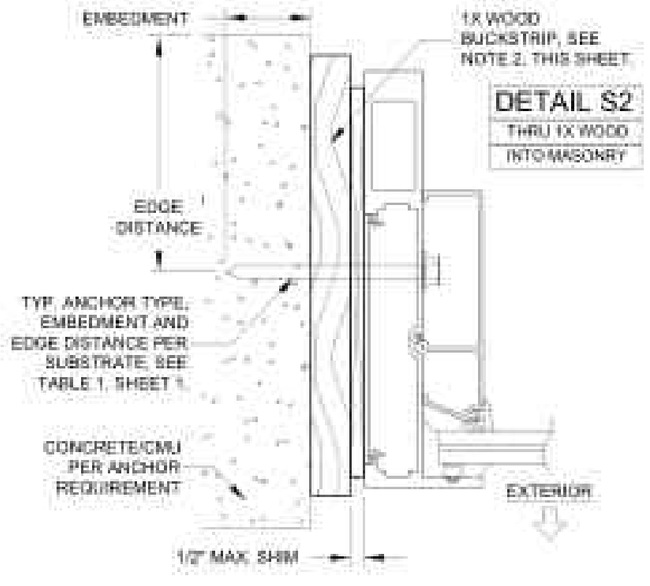
SS3520

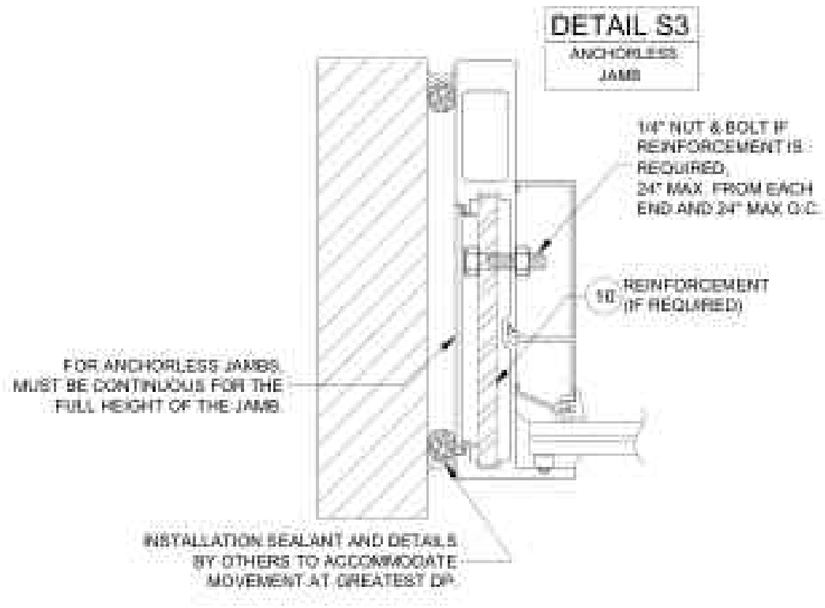
6 OF 10

ANTHONY LYNN MILLER
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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JENS ROSOWSKI

ALUM. STOREFRONT WINDOW SYSTEM

HORIZONTAL X-SECTIONS

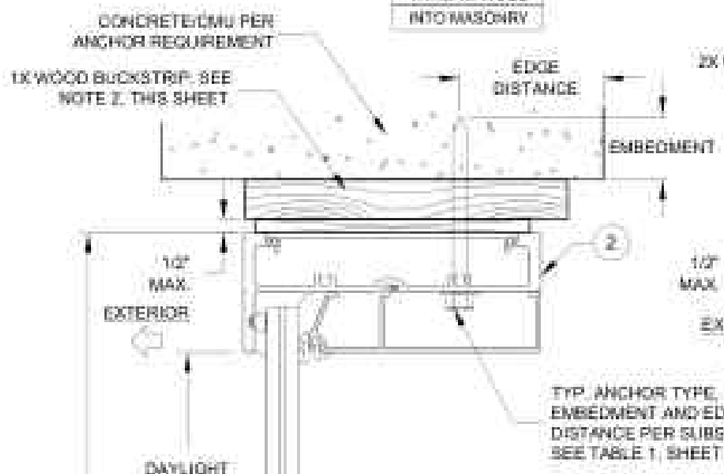
SS3520

7 OF 10

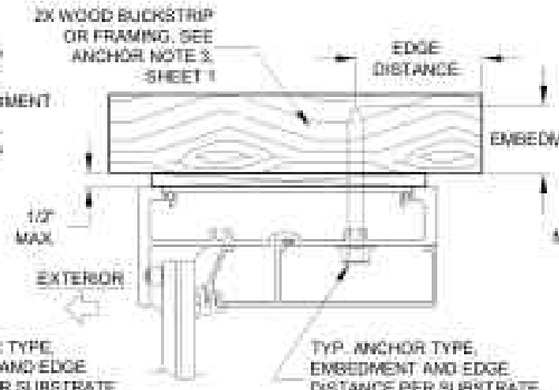
SS3520-LM-HMHZ

ANTHONY LYNN MILLER
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P.E.# 58705

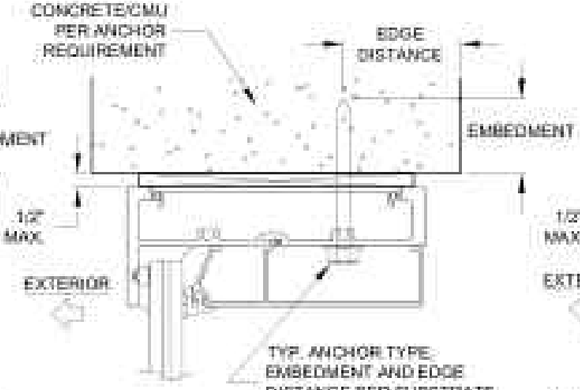
DETAIL F1
THRU 1X WOOD INTO MASONRY



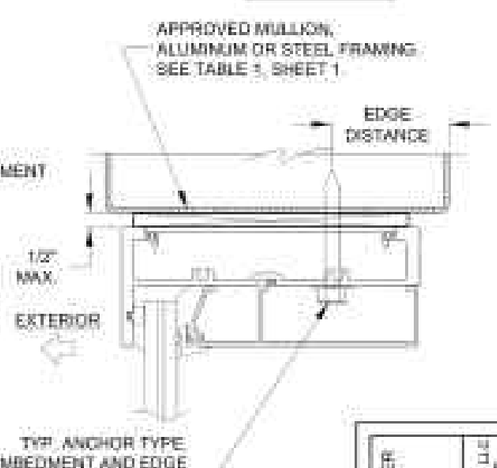
DETAIL F2
INTO WOOD

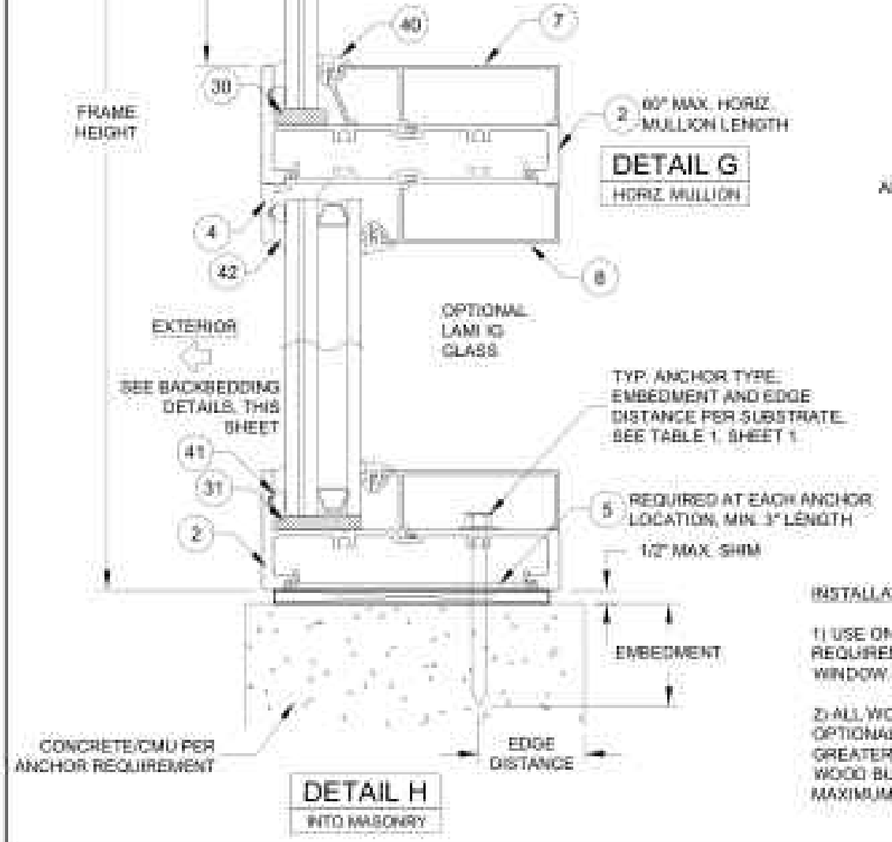


DETAIL F3
INTO MASONRY



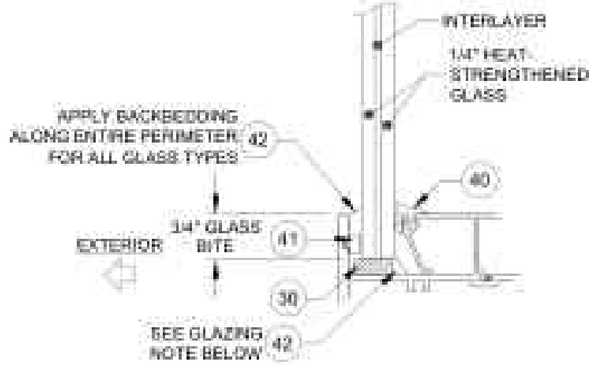
DETAIL F4
INTO METAL



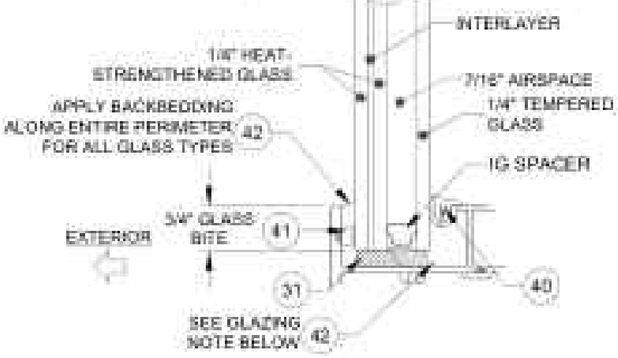


DETAIL G
HORIZ. MULLION

DETAIL H
INTO MASONRY



GLASS TYPE 1 (PVB INTERLAYER)
GLASS TYPE 2 (SG INTERLAYER)



GLASS TYPE 3 (PVB INTERLAYER)
GLASS TYPE 4 (SG INTERLAYER)
1-1/4" NOM. GLASS STACK

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".

GLAZING NOTE:

FOR GLASS TYPES 1 & 3: APPLY BACKBEDDING ALONG ENTIRE PERIMETER.

FOR GLASS TYPES 2, 4: APPLY BACKBEDDING ALONG 20" FROM EACH CORNER.

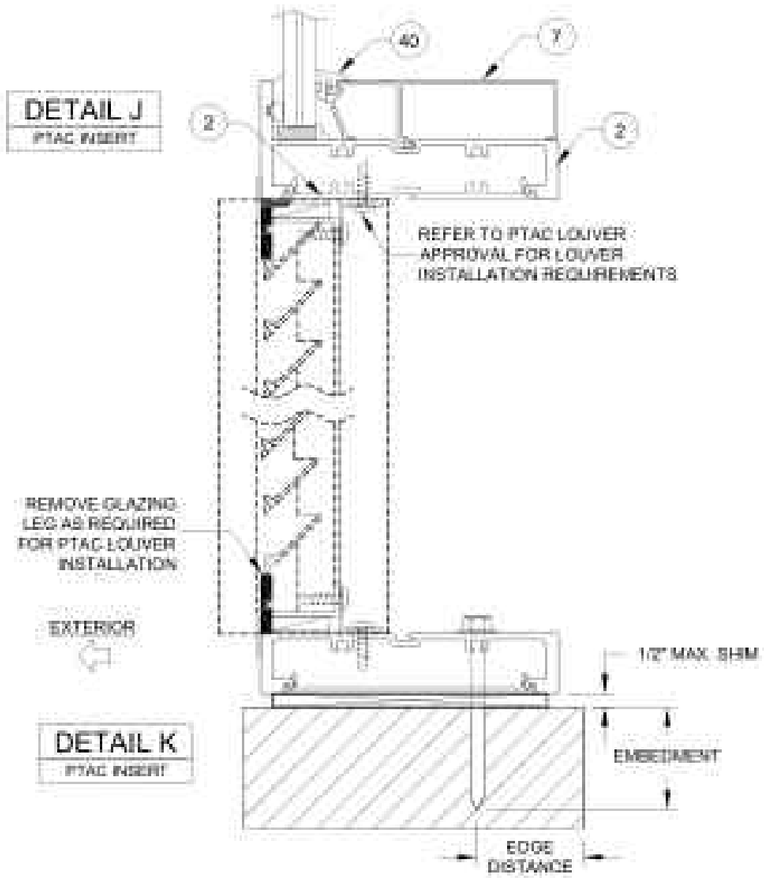
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DATE	07/07/26
DRAWN	JENS ROSOWSKI
ALUM. STOREFRONT WINDOW SYSTEM	SS3520-LM-HVHZ
VERTICAL X-SECTIONS	8 OF 10
	SS3520

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LICENSE
No. 56705
07/07/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 56705



PTAC LOUVER & WINDOW INSERT NOTES:

1) REFER TO SEPARATE WINDOW APPROVAL FOR ALL WINDOW INSERT REQUIREMENTS AND INSTALLATION.

2) AWNING WINDOW INSERT SHOWN BUT MAY BE ANY APPROVED MITER BRANDS WINDOW WITH A FLANGED FRAME.

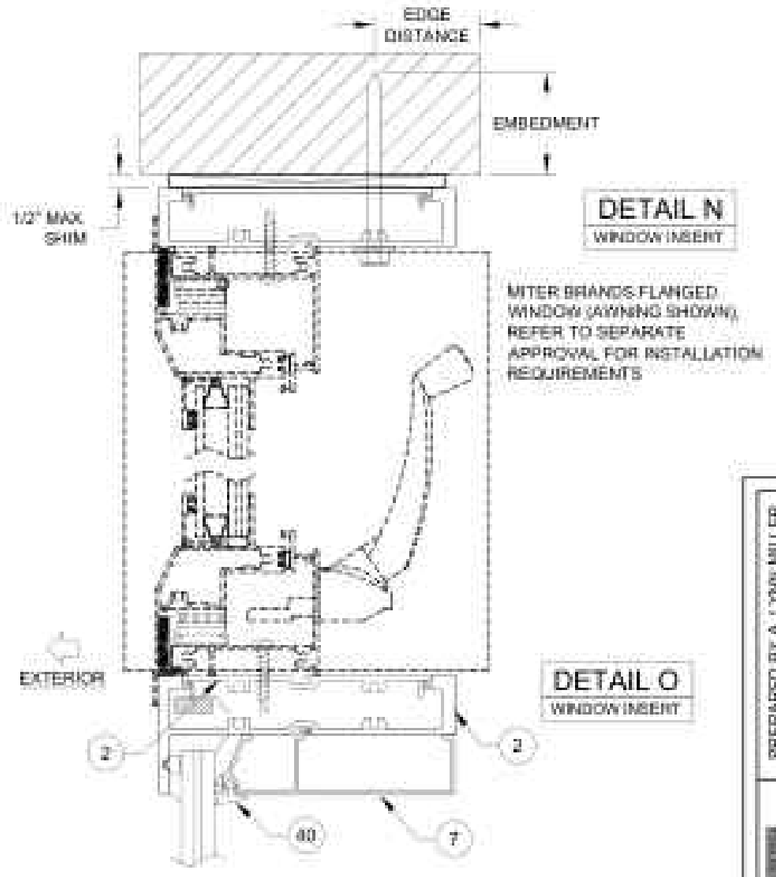
3) REFER TO PTAC LOUVER APPROVAL FOR ALL PTAC LOUVER REQUIREMENTS AND INSTALLATION.

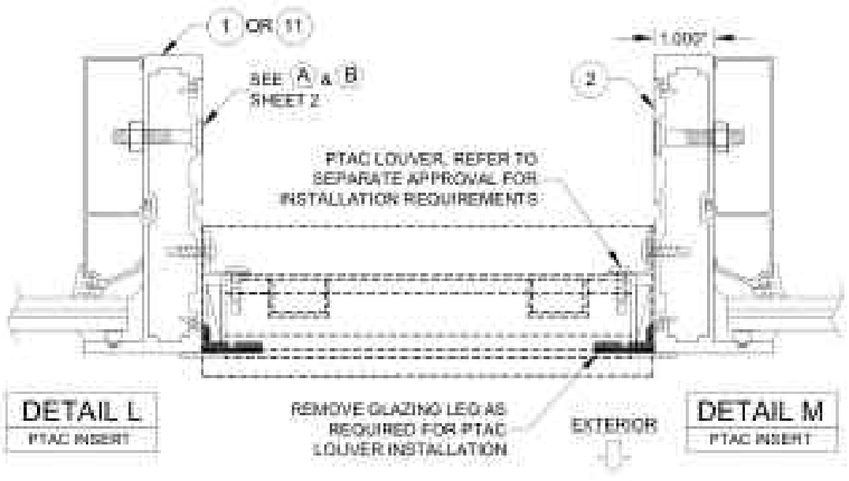
4) IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.

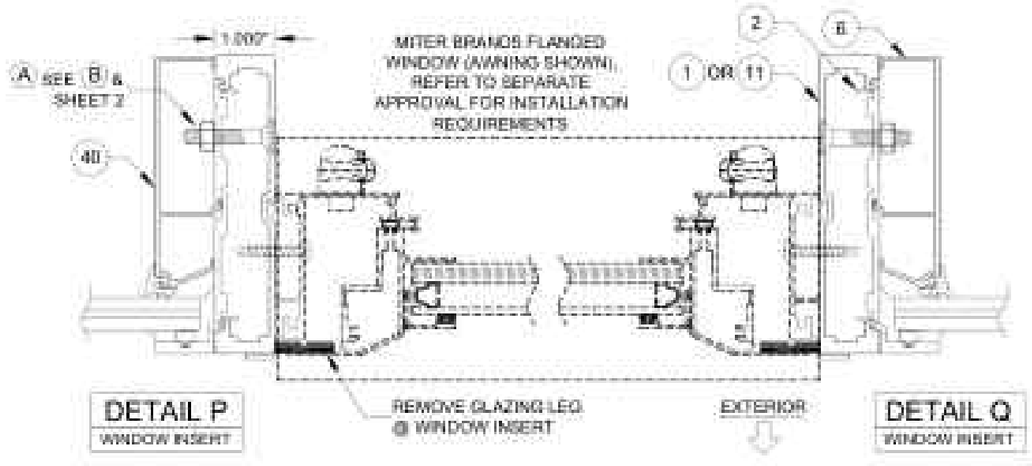
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N. VENICE, FL 34275
(941) 480-1600

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07/07/26

JENS ROSOWSKI

SS3520-LM-HMHZ

PGT® Commercial

REGISTRATION #23290

ALUM. STOREFRONT WINDOW SYSTEM

INSERT X-SECTIONS

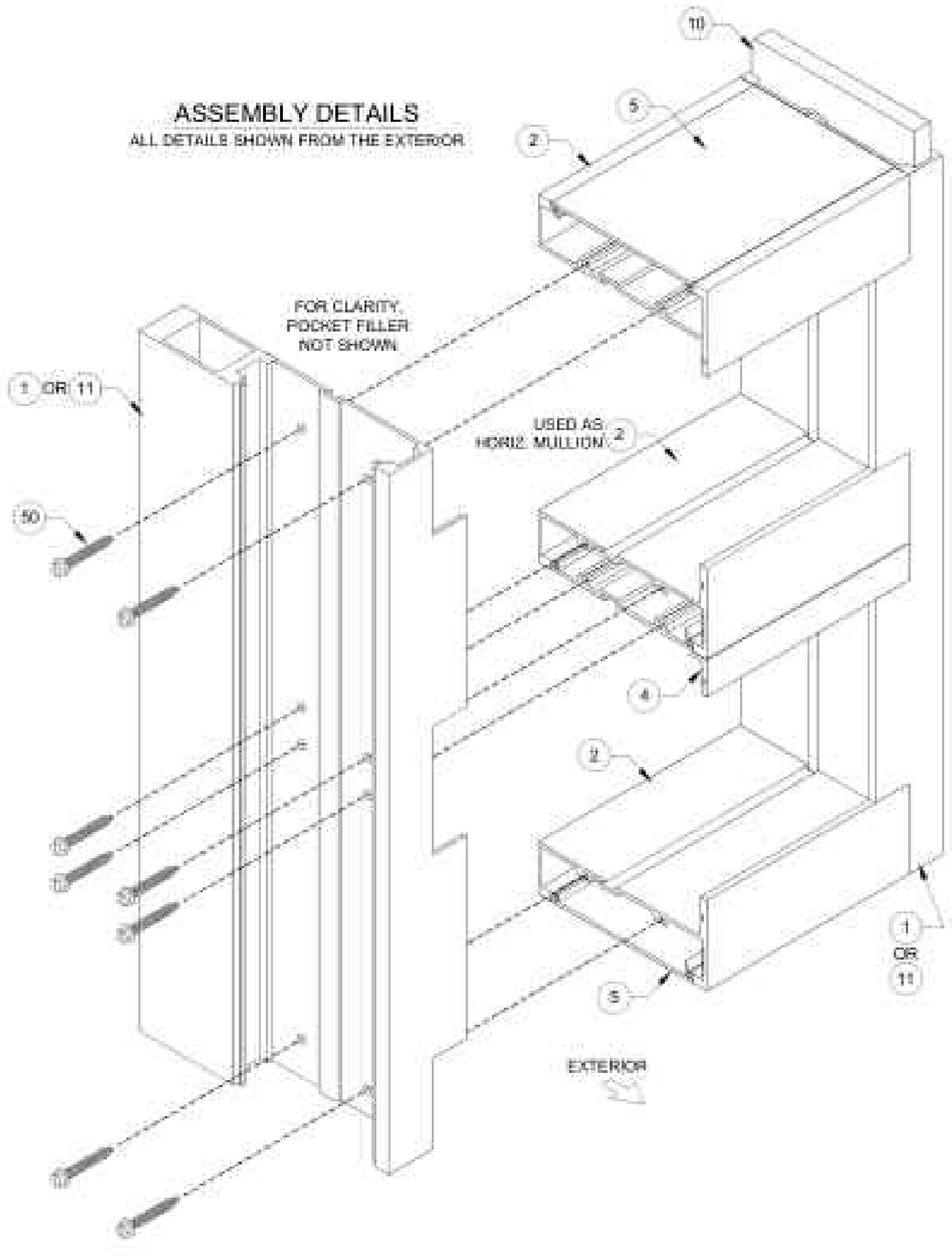
SS3520

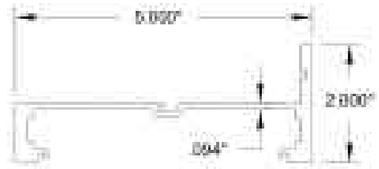
9 OF 10

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





1 JAMB/MULLION



2 HEAD/SILL/HORIZONTAL



3 VERTICAL POCKET FILLER



4 HORIZONTAL POCKET FILLER



5 FLAT FILLER PLATE (USED WITH NON-REINF. MULLION)



6 FLAT FILLER PLATE (USED WITH REINFORCED MULLION)



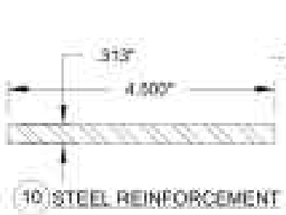
7 9/16" LAMI GLASS STOP



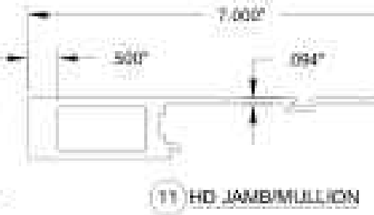
8 1-1/4" IG GLASS STOP



9 DOOR TRANSOM ADAPTER



10 STEEL REINFORCEMENT



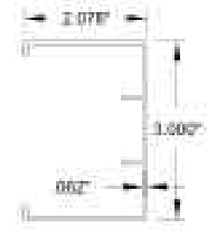
11 HD JAMB/MULLION



13 HD JAMB COVER

TABLE 10

Item	Part #	Description	Material
1	208	Jamb/Mullion	6063-T6 Alum.
2	201	Head/Sill/Horizontal	6063-T6 Alum.
3	2079	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	213	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	210	HD Mullion Cover	6063-T6 Alum.
30	1662	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 Kastenpace 4SG TPS	varies
38	varies	Quanex Super Spacer	varies
39	varies	IG Spacer System	varies
40	006	Glass Stop Gasket (@ beading, dum. = 65 +/-5)	EPDM
41	007	Spacer Gasket (@ glazing leg, dum. = 80 +/-5)	Santoprene
42		Silicone Backbedding: Dow 795, Mil. 995, GE7700	
50	010	Frame Assembly Screw (#12 x 1-1/2" Hex Washer)	Stainless Steel



14 HD MULLION COVER

PREPARED BY A. LYNN MILLER
3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

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JENS ROSOWSKI

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REGISTRATION #5290

ALUM. STOREFRONT WINDOW SYSTEM

BOM'S & EXTRUSIONS

SS3520-LM-HWHZ

SS3520

10 OF 10

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