Engineering Evaluation Report # 3500-08142026

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

Product Description:
SS-3500 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 SS3500-LM-HVHZ, signed and sealed by A. Lynn Miller, P.E.

2. Test Report No. FTL 7137, 7208 & 8717, signed and sealed by Marlin D. Brinson P.E.
Test Report No. FTL 20-2108.1-5, 20-2203, 20-2273 & 21-1035 signed and sealed by Idalmis Ortega P.E.
Fenestration Testing Laboratories, Medley, FL 33166

TAS 201-94 Large Missile Impact Test
TAS 202-94 Uniform Static Air Pressure Test
TAS 203-94 Cyclic Pressure Loading Test

3. Calculations, signed and sealed by A. Lynn Miller, P.E., dated 08/11/21, 08/16/23 & 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 documents.



SERIES SS-3500
IMPACT-RESISTANT STOREFRONT WINDOW SYSTEM

FLORIDA PRODUCT APPROVAL # 46659

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"
	Sheet Steel, (Gr. 33)*	3/8"	0.0451", 18Ga
	Steel, A36*	3/8"	1/8"
1/4" Steel Tekscrew[3]	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 Agga-Gator	Grout-Filled CMU, (ASTM C-90)	2"	2"
	Concrete, (min. 3.62 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 Titracon	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. 3.62 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 (Listed Exterior to Interior)
A	Lami: 1/4"AN, .090" SG, 1/4"AN
B	Lami: 1/4"HS, .90" PVB, 1/4"HS
C	Lami: 1/4"HS, .090" SG, 1/4"HS
D	Lami IG: 1/4"AN, 1/2" SG, 1/4"AN, AIRSPACE, 1/4"TP CAP
E	Lami IG: 1/4"HS, .090" PVB, 1/4"HS, AIRSPACE, 1/4"TP CAP
E1	Recessed Lami IG: 1/4"TP CAP, AIRSPACE, 1/4" HS, .090" PVB, 1/4"HS
F	Lami IG: 1/4"HS, .090" SG, 1/4"HS, AIRSPACE, 1/4"TP CAP
F1	Recessed Lami IG: 1/4"TP CAP, AIRSPACE, 1/4" HS, .090" SG, 1/4"HS

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

SEE SHEET 9 FOR FULL GLASS DESCRIPTIONS.

GENERAL NOTES, INSTRUCTIONS 1
ANCHOR TYPES 1
ELEVATIONS 2-3
GLASS DP 4
VERTICAL MULLION DP 5
ANCHORLESS JAMB DP 5
HORIZONTAL SECTIONS 6
VERTICAL SECTIONS 7
FTAC & 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 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.

DAYLITE OPENING (DLO) FORMULAS
SEE SHEET 4

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, 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.

DESIGN PRESSURE RATING
SEE TABLES 3-4

WATER TEST PRESSURE
15% OF (+) DP

IMPACT RATING
LARGE AND SMALL MISSILE IMPACT RESISTANT MISSILE LEVEL D

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ALUM. STOREFRONT WINDOW SYSTEM

GENERAL NOTES

07/07/26

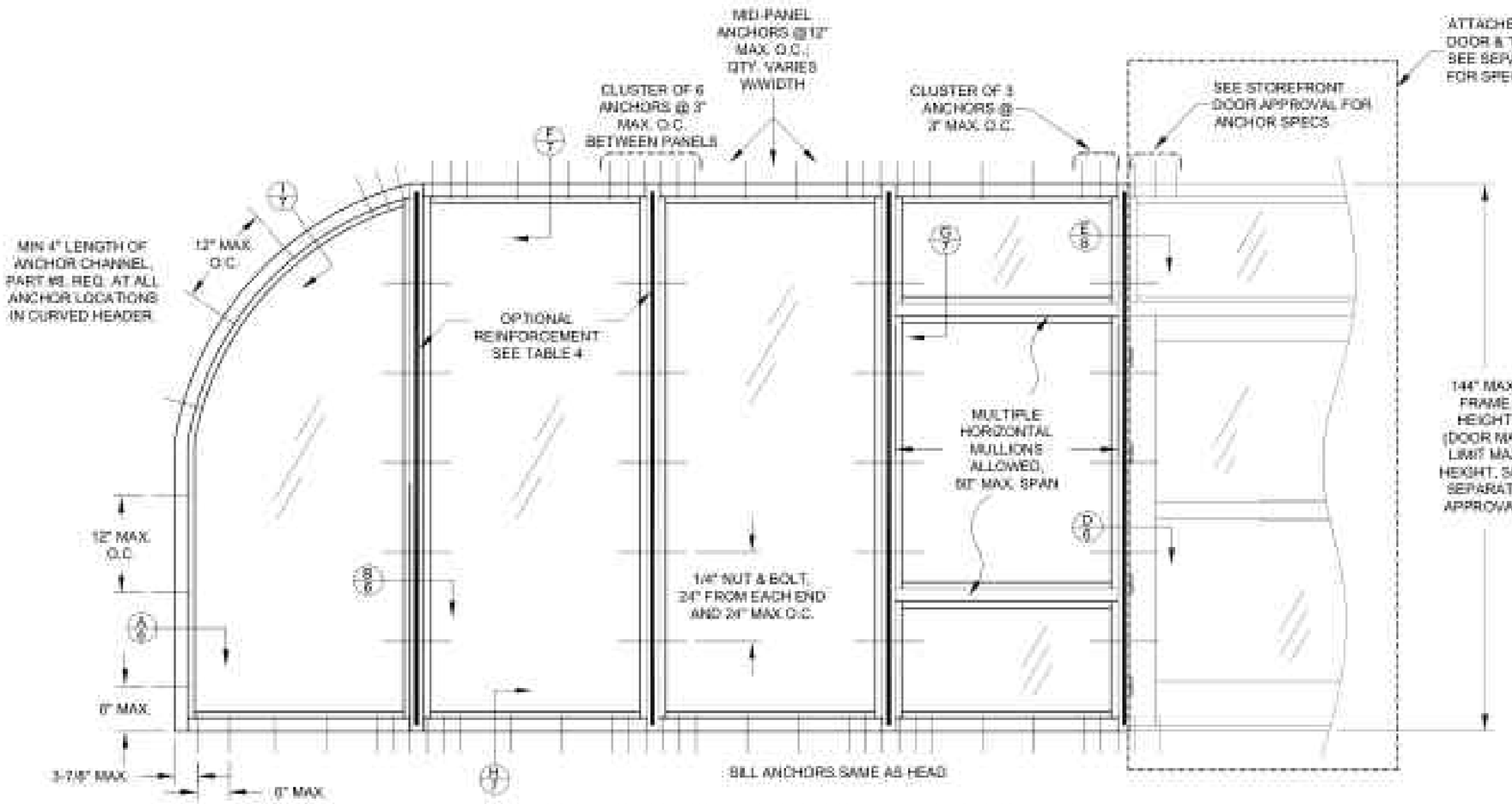
JENS ROSOWSKI

SS3500-LM-HVHZ

SS3500

1 OF 10

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



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

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) SEE TABLES FOR MAXIMUM ALLOWED SIZES.

3) SEE SHEET 4 FOR DAYLIGHT OPENING (DLO) FORMULAS.

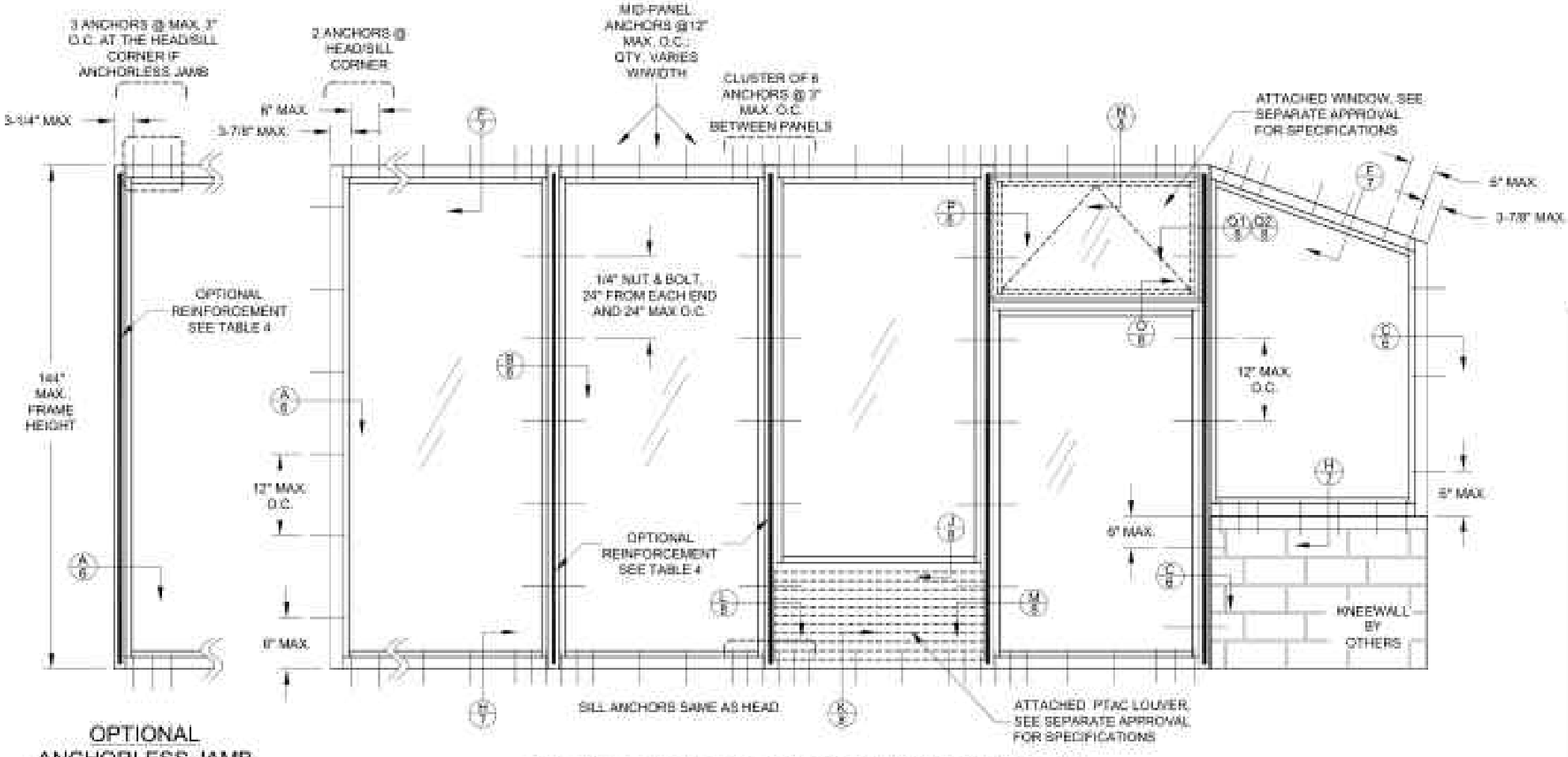
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DRAWN BY	JENS ROSOWSKI
DATE	07/07/26
ALUM. STOREFRONT WINDOW SYSTEM	
ELEVATION A	
SS3500	
SS3500-LM-HWHZ	
SHEET	2 OF 10

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



OPTIONAL ANCHORLESS JAMB

TYP. ELEVATION OF STOREFRONT WINDOW SYSTEM WITH EXAMPLES OF WINDOW INSERT, PTAC INSERT, KNEEWALL, ANGLED HEADER, & ANCHORLESS JAMB

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) SEE TABLES FOR MAXIMUM ALLOWED SIZES.

3) AWNING WINDOW INSERT SHOWN BUT MAY BE ANY APPROVED 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

SS3500-LM-HMHZ

3 OF 10

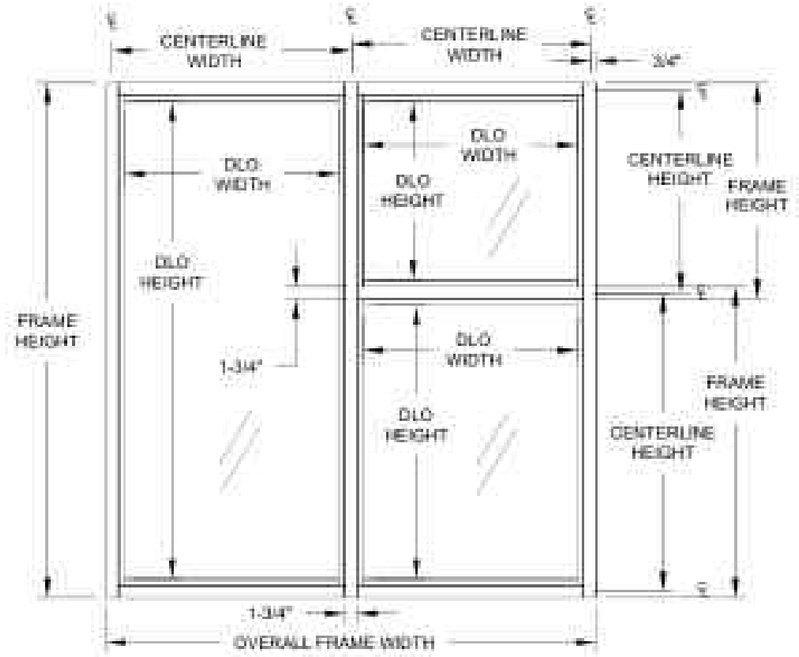
SS3500

ANTHONY LYNN MILLER LICENSE No. 58706 STATE OF FLORIDA PROFESSIONAL ENGINEER
07/07/26
A. LYNN MILLER, P.E.
P.E.# 58706

TABLE 3.

Glass DP, Joint & Maximum Size

Centerline Width	Frame Height	DLO Width	DLO Height	Glass Type A & D	Glass Type B, C & E1	Glass Type C, F & F1
24"	40"	20-1/4"	32-1/4"	+90/-120	+70/-90	+90/-120
30"		26-1/4"		+90/-120	+70/-90	+90/-120
36"		32-1/4"		+90/-120	+70/-90	+90/-120
42"		38-1/4"		+90/-120	+70/-90	+90/-120
48"		44-1/4"	41-1/2"	+90/-120	+70/-90	+90/-120
54"		50-1/4"		+90/-120	+70/-90	+90/-120
60"		56-1/4"		+90/-120	+70/-90	+90/-120
66"		62-1/4"		+90/-120	+70/-90	+90/-120
72"		68-1/4"				+90/-120
78"		74-1/4"				+90/-120
84"		80-1/4"				+90/-120
90"		86-1/4"				+90/-120
96"		92-1/4"				+90/-120
24"	52"	20-1/4"	44-1/2"	+90/-120	+70/-90	+90/-120
30"		26-1/4"		+90/-120	+70/-90	+90/-120
36"		32-1/4"		+90/-120	+70/-90	+90/-120
42"		38-1/4"		+90/-120	+70/-90	+90/-120
48"		44-1/4"		+90/-120	+70/-90	+90/-120
54"		50-1/4"	54-1/2"	+90/-120	+70/-90	+90/-120
60"		56-1/4"		+90/-120	+70/-90	+90/-120
66"		62-1/4"		+90/-120	+70/-90	+90/-120
72"		68-1/4"		+90/-120	+70/-90	+90/-120
78"		74-1/4"		+90/-120	+70/-90	+90/-120
84"		80-1/4"		+90/-120	+70/-90	+90/-120
90"		86-1/4"		+90/-120	+70/-90	+90/-120
96"		92-1/4"		+90/-120	+70/-90	+90/-120
24"	64"	20-1/4"	56-1/2"	+90/-120	+70/-90	+90/-120
30"		26-1/4"		+90/-120	+70/-90	+90/-120
36"		32-1/4"		+90/-120	+70/-90	+90/-120
42"		38-1/4"		+90/-120	+70/-90	+90/-120
48"		44-1/4"		+90/-120	+70/-90	+90/-120
54"		50-1/4"	66-1/2"	+90/-120	+70/-90	+90/-120
60"		56-1/4"		+90/-120	+70/-90	+90/-120
66"		62-1/4"		+90/-120	+70/-90	+90/-120
72"		68-1/4"		+90/-120	+70/-90	+90/-120
78"		74-1/4"		+90/-120	+70/-90	+90/-120
84"		80-1/4"		+90/-120	+70/-90	+90/-120
90"		86-1/4"		+90/-120	+70/-90	+90/-120
96"		92-1/4"		+90/-120	+70/-90	+90/-120
24"	76"	20-1/4"	68-1/2"	+90/-120	+70/-90	+90/-120
30"		26-1/4"		+90/-120	+70/-90	+90/-120
36"		32-1/4"		+90/-120	+70/-90	+90/-120
42"		38-1/4"		+90/-120	+70/-90	+90/-120
48"		44-1/4"		+90/-120	+70/-90	+90/-120
54"		50-1/4"		+90/-120	+70/-90	+90/-120
60"		56-1/4"	78-1/2"	+90/-120	+70/-90	+90/-120
66"		62-1/4"		+90/-120	+70/-90	+90/-120
72"		68-1/4"		+90/-120	+70/-90	+90/-120
78"		74-1/4"		+90/-120	+70/-90	+90/-120
84"		80-1/4"		+90/-120	+70/-90	+90/-120
90"		86-1/4"		+90/-120	+70/-90	+90/-120
96"		92-1/4"		+90/-120	+70/-90	+90/-120
24"	88"	20-1/4"	80-1/2"	+90/-120	+70/-90	+90/-120
30"		26-1/4"		+90/-120	+70/-90	+90/-120
36"		32-1/4"		+90/-120	+70/-90	+90/-120
42"		38-1/4"		+90/-120	+70/-90	+90/-120
48"		44-1/4"		+90/-120	+70/-90	+90/-120
54"		50-1/4"		+90/-120	+70/-90	+90/-120
60"		56-1/4"	90-1/2"	+90/-120	+70/-90	+90/-120
66"		62-1/4"		+90/-120	+70/-90	+90/-120
72"		68-1/4"		+90/-120	+70/-90	+90/-120
78"		74-1/4"		+90/-120	+70/-90	+90/-120
84"		80-1/4"		+90/-120	+70/-90	+90/-120
90"		86-1/4"		+90/-120	+70/-90	+90/-120
96"		92-1/4"		+90/-120	+70/-90	+90/-120
24"	100"	20-1/4"	92-1/2"	+90/-120	+70/-90	+90/-120
30"		26-1/4"		+90/-120	+70/-90	+90/-120
36"		32-1/4"		+90/-120	+70/-90	+90/-120
42"		38-1/4"		+90/-120	+70/-90	+90/-120
48"		44-1/4"		+90/-120	+70/-90	+90/-120
54"		50-1/4"		+90/-120	+70/-90	+90/-120
60"		56-1/4"	102-1/2"	+90/-120	+70/-90	+90/-120
66"		62-1/4"		+90/-120	+70/-90	+90/-120
72"		68-1/4"		+90/-120	+70/-90	+90/-120
78"		74-1/4"		+90/-120	+70/-90	+90/-120
84"		80-1/4"		+90/-120	+70/-90	+90/-120
90"		86-1/4"		+90/-120	+70/-90	+90/-120
96"		92-1/4"		+90/-120	+70/-90	+90/-120
24"	112"	20-1/4"	104-1/2"	+90/-120	+70/-90	+90/-120
30"		26-1/4"		+90/-120	+70/-90	+90/-120
36"		32-1/4"		+90/-120	+70/-90	+90/-120
42"		38-1/4"		+90/-120	+70/-90	+90/-120
48"		44-1/4"		+90/-120	+70/-90	+90/-120
54"		50-1/4"		+90/-120	+70/-90	+90/-120
60"		56-1/4"	114-1/2"	+90/-120	+70/-90	+90/-120
66"		62-1/4"		+90/-120	+70/-90	+90/-120
72"		68-1/4"		+90/-120	+70/-90	+90/-120
78"		74-1/4"		+90/-120	+70/-90	+90/-120
84"		80-1/4"		+90/-120	+70/-90	+90/-120
90"		86-1/4"		+90/-120	+70/-90	+90/-120
96"		92-1/4"		+90/-120	+70/-90	+90/-120



DLO (DAYLIGHT OPENING) FORMULAS

FRAME WIDTH - 5-1/2" = DLO WIDTH
FRAME HEIGHT - 5-1/2" = DLO HEIGHT

CENTERLINE WIDTH - 3-3/4" = DLO WIDTH
CENTERLINE HEIGHT - 3-3/4" = DLO HEIGHT

CENTERLINE WIDTH - 2-1/4" = GLASS WIDTH
CENTERLINE HEIGHT - 2-1/4" = GLASS HEIGHT
FRAME WIDTH - 4" = GLASS WIDTH
FRAME HEIGHT - 4" = 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 9 FOR DESCRIPTIONS OF GLASS TYPES.

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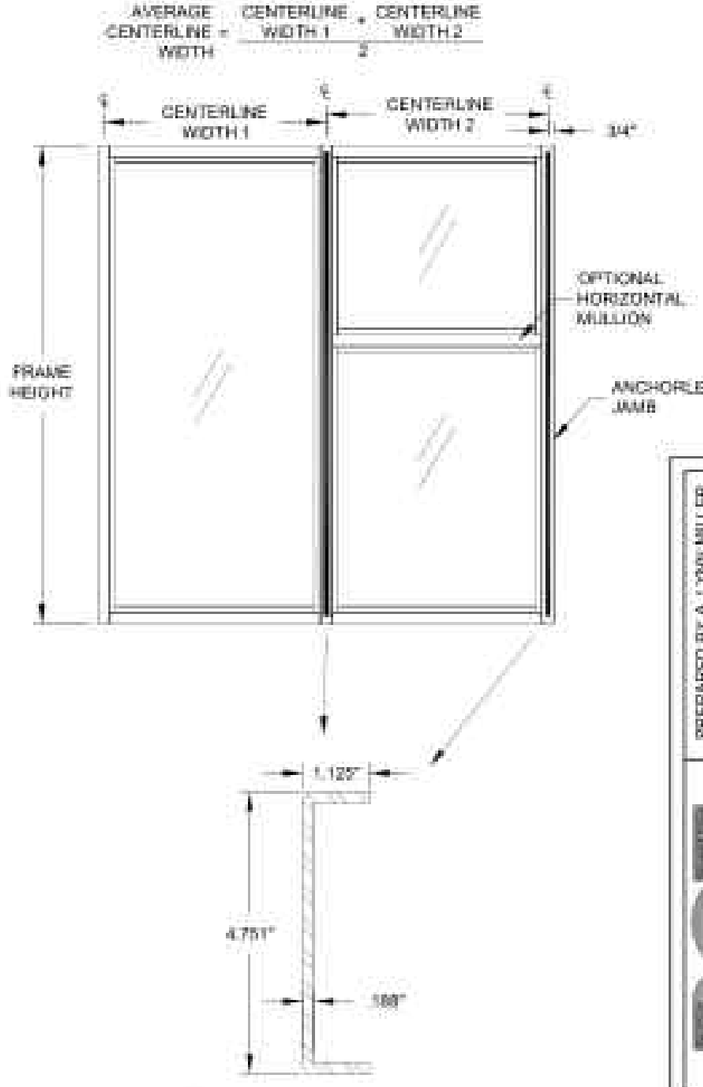
REGISTRATION #23090

ITEM	07/07/26
JENS ROSOWSKI	
ALUM. STOREFRONT WINDOW SYSTEM	SS3500-LM-HMHZ
GLASS DESIGN PRESSURE	4 OF 10
SS3500	

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

TABLE 4

Average Centerline Width	Frame Height	Maximum Vertical Mullion Design Pressure (psf) — No Reinforcement	Maximum Vertical Mullion Design Pressure (psf) — Steel Reinforcement (part #10)	Anchorless Jamb Design Pressure (psf) — No Reinforcement	Anchorless Jamb Design Pressure (psf) — Steel Reinforcement (part #10)
24"	18"	+50/-50	+80/-80	+60/-60	+80/-80
30"		+50/-50	+80/-80	+60/-60	+80/-80
36"		+50/-50	+80/-80	+60/-60	+80/-80
42"		+50/-50	+80/-80	+60/-60	+80/-80
48"		+50/-50	+80/-80	+60/-60	+80/-80
54"		+50/-50	+80/-80	+60/-60	+80/-80
60"		+50/-50	+80/-80	+60/-60	+80/-80
66"			+80/-80		+80/-80
72"			+80/-80		+80/-80
78"			+80/-80		+80/-80
84"			+80/-80		+80/-80
24"	30"	+50/-50	+80/-80	+60/-60	+80/-80
30"		+50/-50	+80/-80	+60/-60	+80/-80
36"		+50/-50	+80/-80	+60/-60	+80/-80
42"		+50/-50	+80/-80	+60/-60	+80/-80
48"		+50/-50	+80/-80	+60/-60	+80/-80
54"		+50/-50	+80/-80	+60/-60	+80/-80
60"		+50/-50	+80/-80	+60/-60	+80/-80
66"		+50/-50	+80/-80	+60/-60	+80/-80
72"		+50/-50	+80/-80	+60/-60	+80/-80
78"			+80/-80		+80/-80
84"			+80/-80		+80/-80
24"	42"	+50/-50	+80/-80	+60/-60	+80/-80
30"		+50/-50	+80/-80	+60/-60	+80/-80
36"		+50/-50	+80/-80	+60/-60	+80/-80
42"		+50/-50	+80/-80	+60/-60	+80/-80
48"		+50/-50	+80/-80	+60/-60	+80/-80
54"		+50/-50	+80/-80	+60/-60	+80/-80
60"		+50/-50	+80/-80	+60/-60	+80/-80
66"		+50/-50	+80/-80	+60/-60	+80/-80
72"		+50/-50	+80/-80	+60/-60	+80/-80
78"			+80/-80		+80/-80
84"			+80/-80		+80/-80
24"	54"	+50/-50	+80/-80	+60/-60	+80/-80
30"		+50/-50	+80/-80	+60/-60	+80/-80
36"		+50/-50	+80/-80	+60/-60	+80/-80
42"		+50/-50	+80/-80	+60/-60	+80/-80
48"		+50/-50	+80/-80	+60/-60	+80/-80
54"		+50/-50	+80/-80	+60/-60	+80/-80
60"		+50/-50	+80/-80	+60/-60	+80/-80
66"		+50/-50	+80/-80	+60/-60	+80/-80
72"		+50/-50	+80/-80	+60/-60	+80/-80
78"			+80/-80		+80/-80
84"			+80/-80		+80/-80
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36"		+50/-50	+80/-80	+60/-60	+80/-80
42"		+50/-50	+80/-80	+60/-60	+80/-80
48"		+50/-50	+80/-80	+60/-60	+80/-80
54"		+50/-50	+80/-80	+60/-60	+80/-80
60"		+50/-50	+80/-80	+60/-60	+80/-80
66"		+50/-50	+80/-80	+60/-60	+80/-80
72"		+50/-50	+80/-80	+60/-60	+80/-80
78"			+80/-80		+80/-80
84"			+80/-80		+80/-80
24"	78"	+50/-50	+80/-80	+60/-60	+80/-80
30"		+50/-50	+80/-80	+60/-60	+80/-80
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66"		+50/-50	+80/-80	+60/-60	+80/-80
72"		+50/-50	+80/-80	+60/-60	+80/-80
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60"		+50/-50	+80/-80	+60/-60	+80/-80
66"		+50/-50	+80/-80	+60/-60	+80/-80
72"		+50/-50	+80/-80	+60/-60	+80/-80
78"			+80/-80		+80/-80
84"			+80/-80		+80/-80



10 STEEL REINFORCEMENT

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 9 FOR DESCRIPTIONS OF GLASS TYPES.

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ALUM. STOREFRONT WINDOW SYSTEM

MULLION DESIGN PRESSURE

SS3500

07/07/26

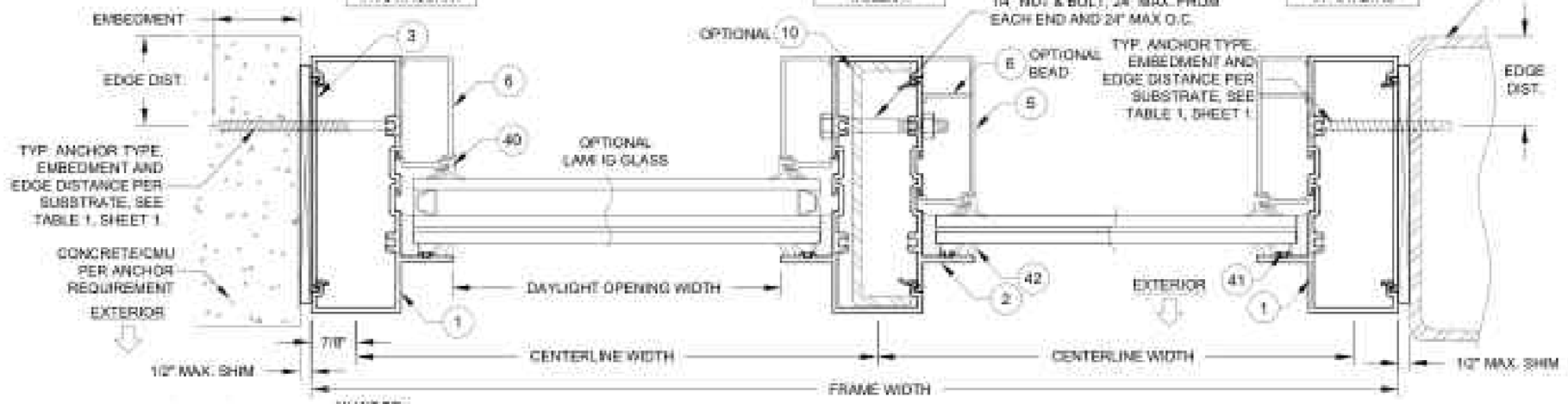
JENS ROSOWSKI

SS3500-LM-HMHZ

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



DETAIL B
MULLION

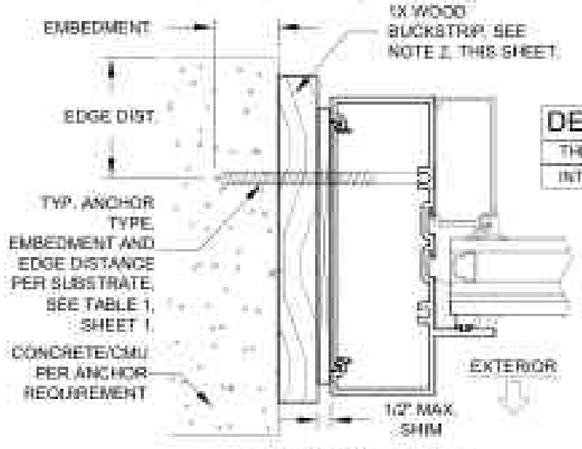
DETAIL C
INTO METAL

INSTALLATION NOTES:

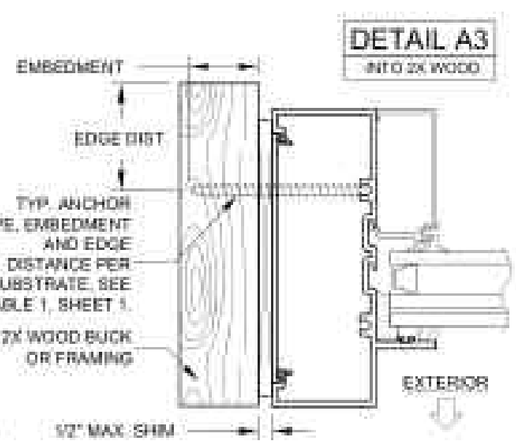
1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS. FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW. ALL ANCHOR HEAD TYPES ARE ALLOWED.

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.

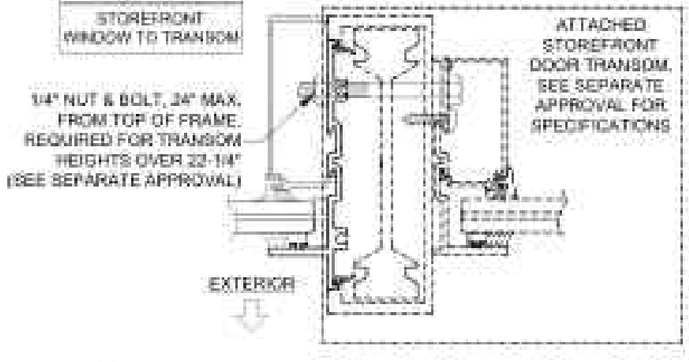
DETAIL A2
THRU 1X WOOD
INTO MASONRY



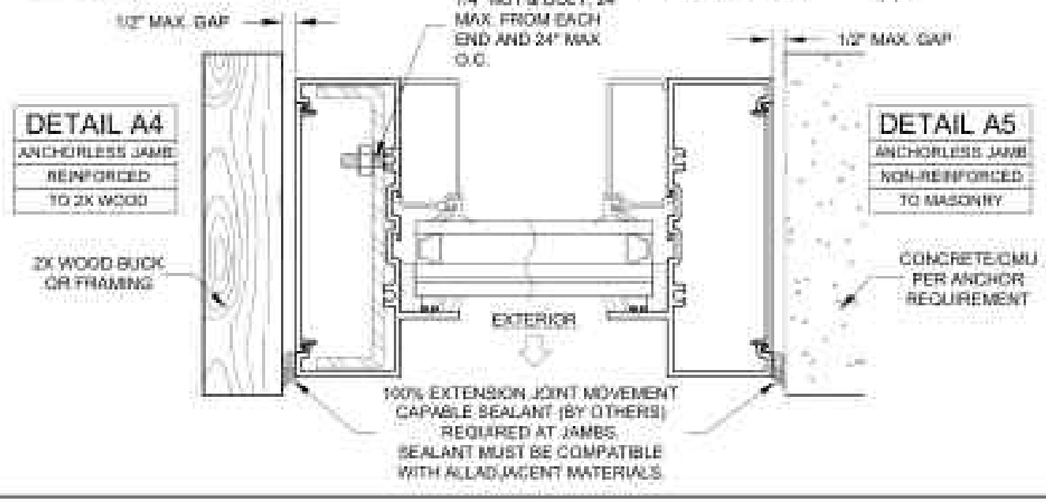
DETAIL A3
INTO 2X WOOD



DETAIL E
STOREFRONT WINDOW TO TRANSOM

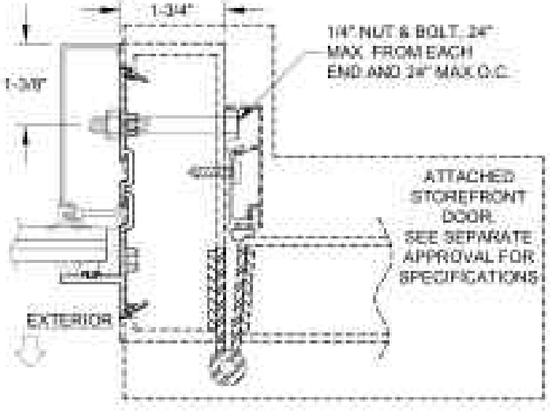


DETAIL A4
ANCHORLESS JAMB
REINFORCED
TO 2X WOOD



DETAIL A5
ANCHORLESS JAMB
NON-REINFORCED
TO MASONRY

DETAIL D
STOREFRONT WINDOW TO DOOR



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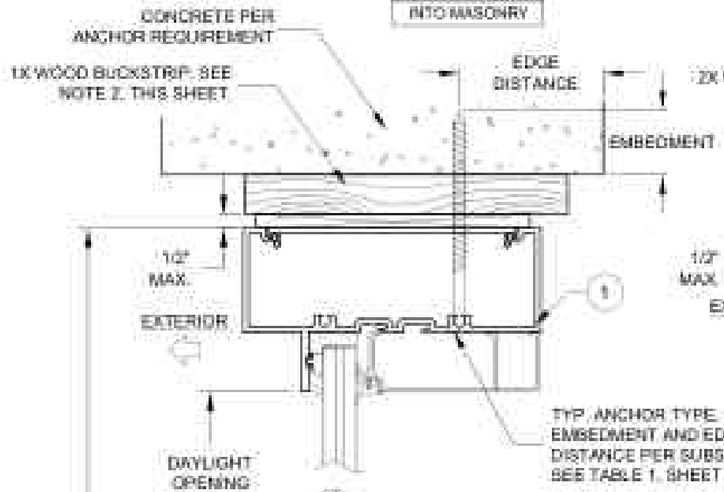
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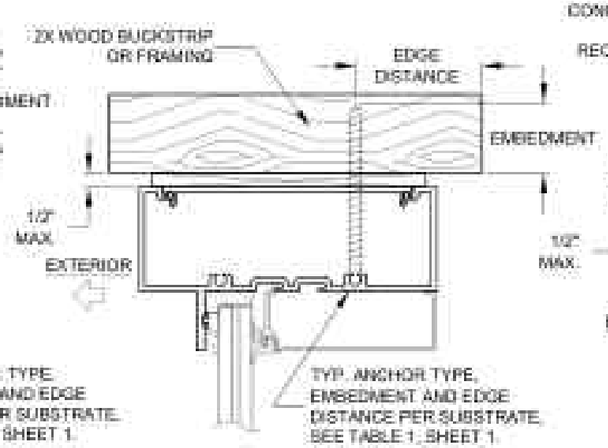
DATE	07/07/26
DRAWN BY	JENS ROSOWSKI
ALUM. STOREFRONT WINDOW SYSTEM	SS3500-LM-HVHZ
HORIZONTAL X-SECTIONS	6 OF 10
SS3500	

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

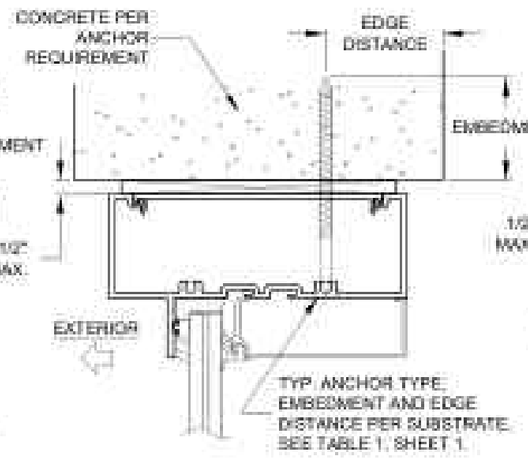
DETAIL F1
THRU 1X WOOD INTO MASONRY



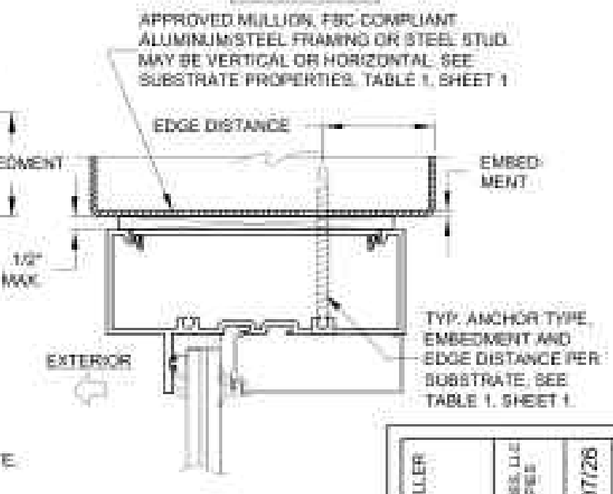
DETAIL F2
INTO WOOD

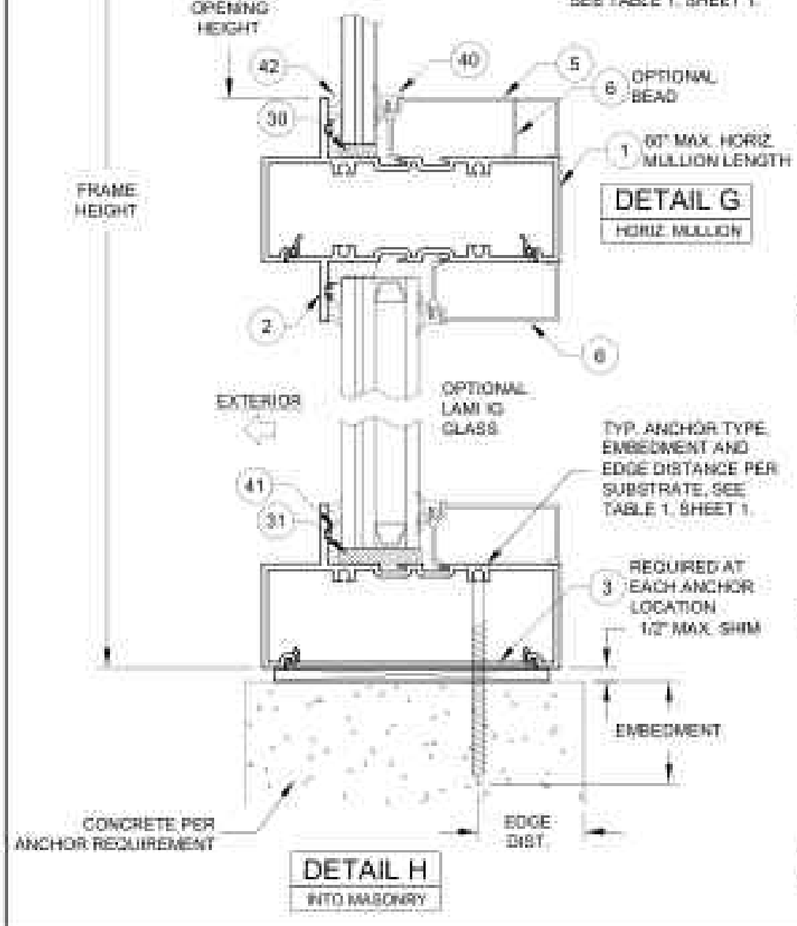


DETAIL F3
INTO MASONRY



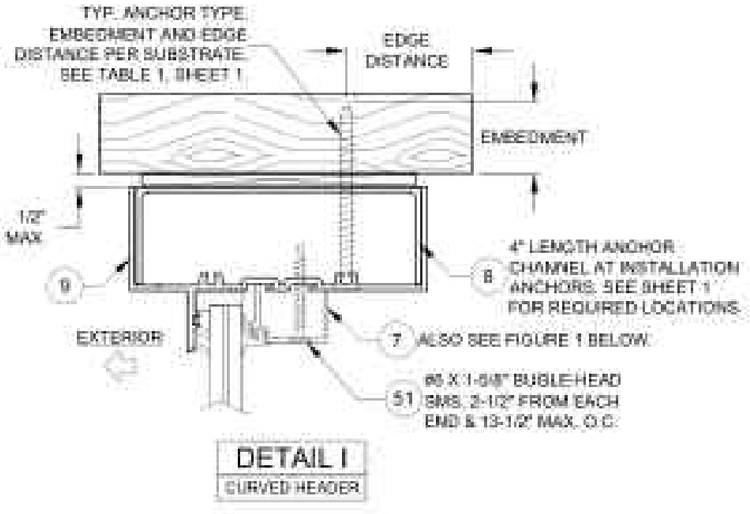
DETAIL F4
INTO METAL





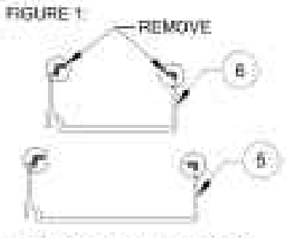
DETAIL G
HORIZ. MULLION

DETAIL H
INTO MASONRY

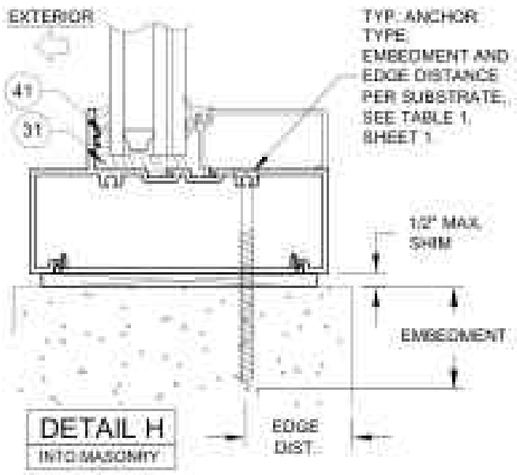


DETAIL I
CURVED HEADER

FIGURE 1



PARTS #5 & #6 MAY ALSO BE USED IF FIELD-MODIFIED AS SHOWN ABOVE.



DETAIL H
INTO MASONRY

NOTE: REVERSED-GLAZING EXAMPLE ABOVE IS APPLICABLE FOR ALL SIDES AND SUBSTRATES SHOWN ON APPROVAL.

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.

PREPARED BY: A. LYNN MILLER
3430 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

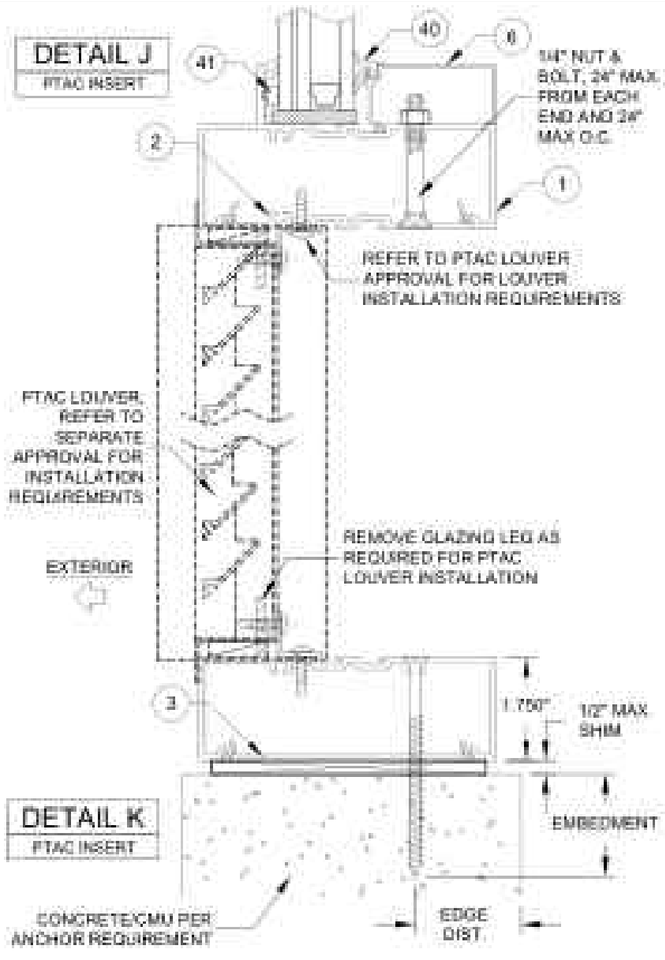
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DRAWN	JENS ROSOWSKI
DATE	07/07/26
ALUM. STOREFRONT WINDOW SYSTEM	
VERTICAL X-SECTIONS	
SCALE	NTS
DRAWING NO.	SS3500
SHEET	7 OF 10
REVISIONS	SS3500-LM-HWHZ

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

DETAIL J
PTAC INSERT



DETAIL K
PTAC INSERT

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.

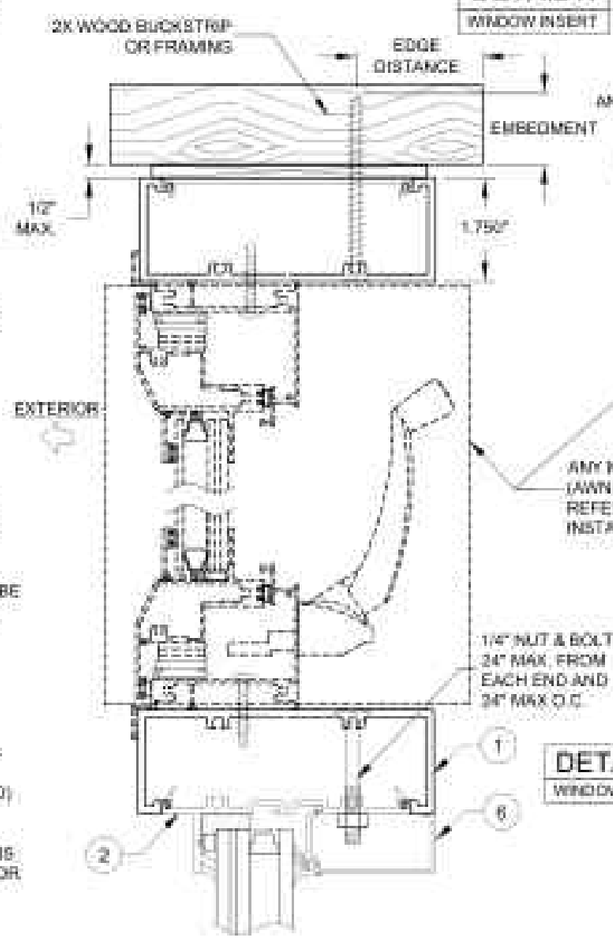
4) IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL (PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.

INSTALLATION NOTES:

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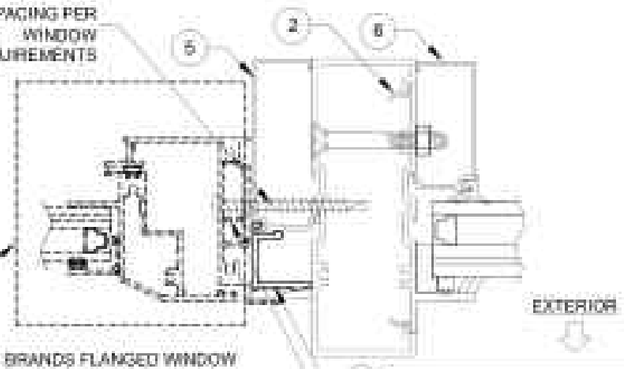
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DETAIL N
WINDOW INSERT

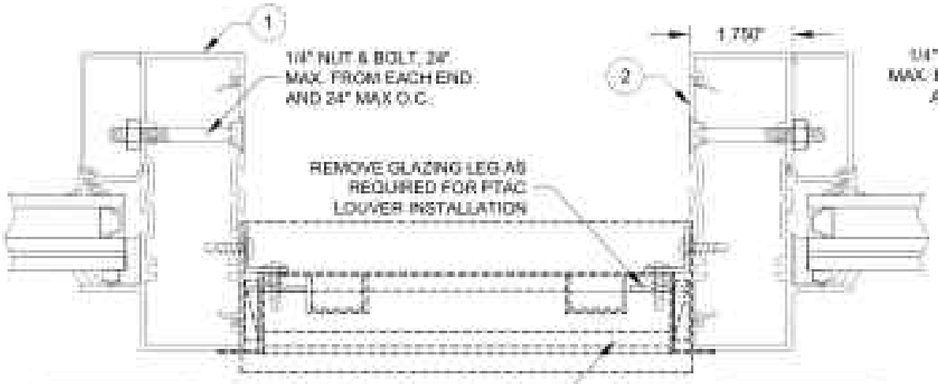


DETAIL O
WINDOW INSERT

DETAIL Q1
WINDOW INSERT
ALL SIDES SIMILAR

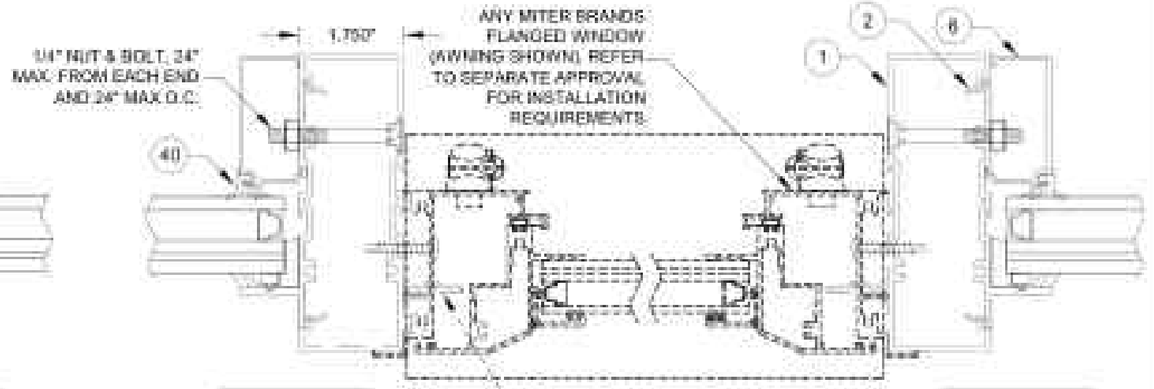


DETAIL L
PTAC INSERT



DETAIL M
PTAC INSERT

DETAIL P
WINDOW INSERT



DETAIL Q2
WINDOW INSERT

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3430 PRECISION DRIVE
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(941) 480-1600

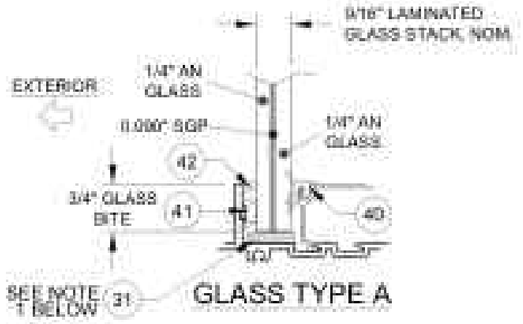
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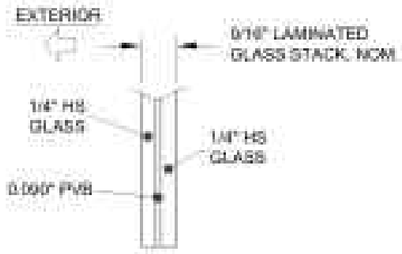
REGISTRATION #23256

DATE	07/07/26
DRAWN BY	JENS ROSOWSKI
JOB #	SS3500-LM-HVHZ
ALUM. STOREFRONT WINDOW SYSTEM	
INSERT DETAILS	
SHEET #	8 OF 10
SERIES	SS3500

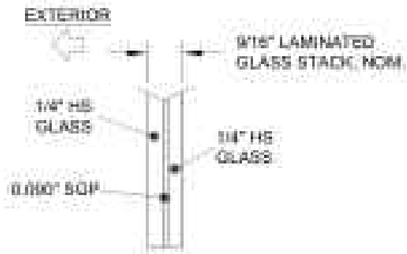
ANTHONY LYNN MILLER
LICENSE
No. 58705
07/07/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



GLASS TYPE A



GLASS TYPE B

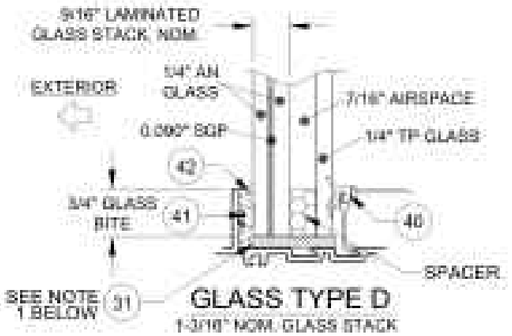


GLASS TYPE C

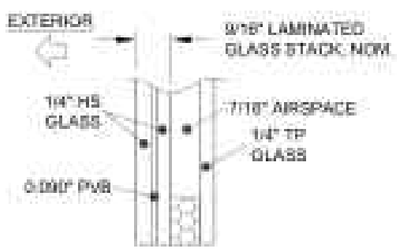
TABLE 3:

Glass Types (Listed Exterior to Interior)	
A	Lam'd: 1/4"AN, .090" SG, 1/4"AN
B	Lam'd: 1/4"HS, .090" PVB, 1/4"HS
C	Lam'd: 1/4"HS, .090" SG, 1/4"HS
D	Lam'd IG: 1/4"AN, .090" SG, 1/4"AN, AIRSPACE, 1/4"TP CAP
E	Lam'd IG: 1/4"HS, .090" PVB, 1/4"HS, AIRSPACE, 1/4"TP CAP
D1	Reversed Lam'd IG: 1/4"TP CAP, AIRSPACE, 1/4" HS, .090" PVB, 1/4"HS
F	Lam'd IG: 1/4"HS, .090" SG, 1/4"HS, AIRSPACE, 1/4"TP CAP
F1	Reversed Lam'd IG: 1/4"TP CAP, AIRSPACE, 1/4" HS, .090" SG, 1/4"AN

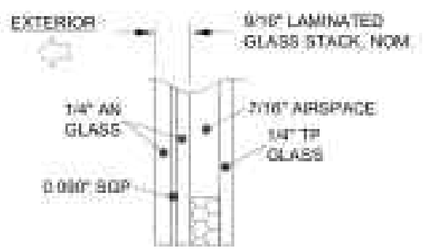
"AN" = ANNEALED
"HS" = HEAT STRENGTHENED
"TP" = TEMPERED
"PVB" = 0.090" TROSIFOL PVB BY KURARAY AMERICA, INC.
"SG" = 0.090" SENTRYGLAS BY KURARAY AMERICA, INC.



GLASS TYPE D
1-3/16" NOM. GLASS STACK



GLASS TYPE E
1-3/16" NOM. GLASS STACK

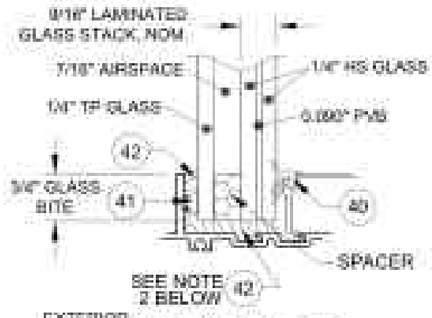


GLASS TYPE F
1-3/16" NOM. GLASS STACK

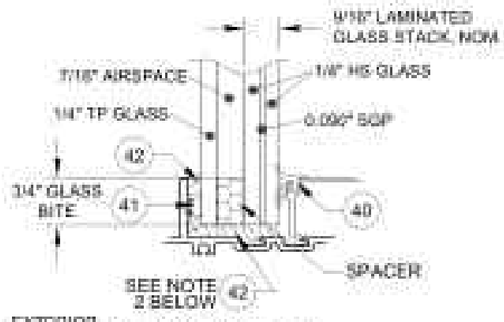
NOTE 1:

FOR GLASS TYPES B & E (PVB): APPLY BACKBEDDING ALONG ENTIRE PERIMETER.

FOR GLASS TYPES A, C, D & F (SG): APPLY BACKBEDDING ALONG 20" FROM EACH CORNER.



GLASS TYPE E1
1-3/16" NOM. GLASS STACK



GLASS TYPE F1
1-3/16" NOM. GLASS STACK

NOTE 2: FOR REVERSED-GLAZING (E1 & F1), ENTIRE PERIMETER OF GLASS EDGE TO HAVE BACKBEDDING. FOR CLARITY, SETTING BLOCKS ARE NOT SHOWN.

PREPARED BY A. LYNN MILLER
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REGISTRATION #32090

07/07/26

JENS ROSOWSKI

SS3500-LM-HMHZ

ALUM. STOREFRONT WINDOW SYSTEM

GLAZING DETAILS

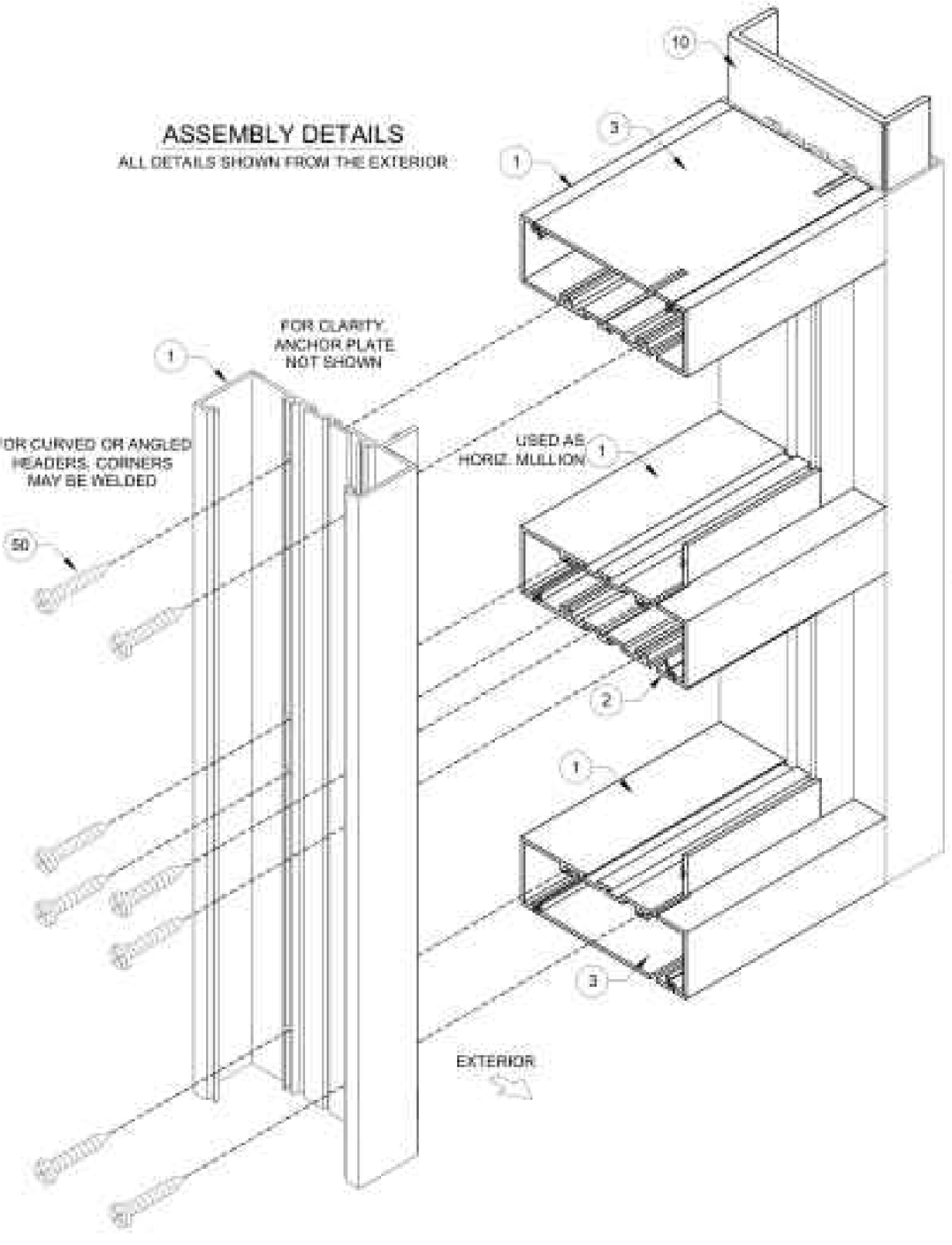
9 OF 10

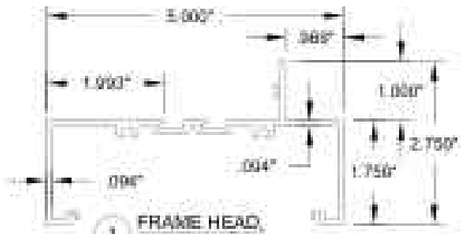
SS3500

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

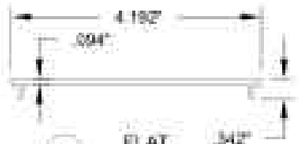




1 FRAME HEAD, SILL & JAMB



2 GLAZING ADAPTER



3 FLAT SNAP COVER



5 BEADING A



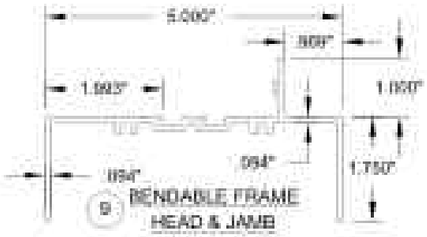
6 BEADING B



7 BENDABLE BEADING



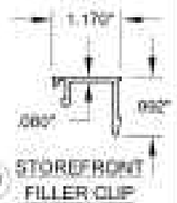
8 ANCHOR CHANNEL



9 BENDABLE FRAME HEAD & JAMB



10 STEEL REINFORCEMENT



11 STOREFRONT FILLER CLIP

TABLE B

Item	Part #	Description	Material
1	001	Frame Head, Jamb & Sill	Alum. (6063-T6)
2	002	Glazing Adapter	Alum. (6063-T6)
3	003	Flat Snap Cover	Alum. (6063-T6)
5	004	Glass Stop "A"	Alum. (6063-T6)
6	005	Glass Stop "B"	Alum. (6063-T6)
7		Bendable Beading	PVC
8	MISC-007	Anchor Channel	Alum. (6063-T6)
9	ARCH-009	Bendable Frame Head & Jamb	Alum. (6063-T6)
10	010	Steel Reinforcement Channel	Steel (A-36)
11	6154170	Storefront Filler Clip	Alum. (6063-T6)
35	MISC-127	Setting Block, 3/16" x 7/16" x 4", Durom 85 ea	EPDM
36	MISC-128	U Setting Block, 3/16" x 1-5/32" x 4", Durom 85 ea	EPDM
40	GSKT-006	Glazing Gasket, Glass Stop, Durom 65 ea	EPDM
41	GSKT-007	Glazing Gasket, Glazing Leg, Durom 60 ea	Santoprene
42	SILC-131-152	Bite/Sealing, Dow-791, 993, 995 or RSS-7700	Silicone
35	SCRW-010	#12 x 1-1/2" Hex Washer Screw (Assembly)	Stainless Steel

PREPARED BY A. LYNN MILLER
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07/07/26

JENS ROSOWSKI

SS3500-LM-HWHZ

PGT® Commercial
REGISTRATION #25286

ALUM. STOREFRONT WINDOW SYSTEM

BOM'S & EXTRUSIONS

SS3500

10 OF 10

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