GENERAL NOTES: SS-3500 IMPACT-RESISTANT STOREFRONT WINDOW SYSTEM

FLORIDA PRODUCT APPROVAL # 25574

IMPACT RATING
RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FBC, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
2. SHUTTERS ARE NOT REQUIRED PER FBC REQUIREMENTS, WHEN USED IN WIND-BORNE DEBRIS REGIONS.
3. GLAZING TYPE: SEE GLAZING DETAILS ON SHEET 15.
4. DESIGN PRESSURES:
   A) NEGATIVE DESIGN LOADS BASED ON STRUCTURAL & CYCLE TESTING AND GLASS PER ASTM E1300
   B) POSITIVE DESIGN LOADS BASED ON WATER INFILTRATION, STRUCTURAL & CYCLE TESTING AND GLASS PER ASTM E1300
   C) DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.
5. 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.
6. INSTALLATION SCREWS & FRAME CORNERS TO BE SEALED WITH NARROW JOINT SEALANT.
7. DISSIMILAR MATERIALS THAT COME INTO CONTACT, INCLUDING PRODUCT FRAMING, ANCHORAGE AND OPENING SUBSTRATES, SHALL BE COATED OR PROTECTED TO PREVENT CORROSIVE REACTIONS AS REQUIRED BY THE FLORIDA BUILDING CODE.
8. REFERENCES: ELCO ULTRACON & CRETEFLEX NOA'S, ITW TAPCON NOA; TEST REPORTS FTL-7137, 7208, 8717 & 17-7007

ANCHOR NOTES:

1. FOR CONCRETE/CMU SUBSTRATE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO ANCHORS. SEE TABLE 1 ON THIS SHEET FOR EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS.
2. FOR SUBSTRATE APPLICATIONS SEE TABLE 1 ON THIS SHEET.
3. WOOD BUCKS DEPICTED AS 1X ARE LESS THAN 1-1/2" THICK. PROPERLY SECURED, 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE OR CMU. 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. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD & TO BE REVIEWED BY THE BUILDING OFFICIAL.
4. SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.
5. METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER THE FBC AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
6. 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.

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, SHEET 1.
3. DETERMINE THE GLASS DESIGN PRESSURE FROM TABLE 2, SHEET 4.
4. JAMB ANCHOR SPACING IS GIVEN IN TABLES 5 & 6, SHEETS 7 & 8 AND HAVE BEEN CALCULATED FOR THE PRODUCT'S MAXIMUM DP.
5. MID-PANEL ANCHOR QUANTITIES ARE GIVEN IN TABLES 7 & 8, SHEETS 9 & 10 AND HAVE BEEN CALCULATED FOR THE PRODUCT'S MAXIMUM DP.
6. IF THE STOREFRONT WINDOW IS ATTACHED TO ANOTHER WINDOW THROUGH A COMMON MULLION:
   A) DETERMINE THE MULLION DESIGN PRESSURE FROM TABLE 9, SHEET 11.
   B) DETERMINE THE MAXIMUM DESIGN PRESSURE DUE TO MULLION CLUSTER ANCHORAGE FROM TABLES 3 OR 4, SHEETS 5-6 BASED ON YOUR SHIM SPACE, ANCHOR TYPE AND THE QUANTITY OF ANCHORS REQUIRED TO ATTAIN THE REQUIRED DESIGN PRESSURE.
7. THE LOWEST DESIGN PRESSURE FROM 3 & 6 ABOVE, SHALL BE USED FOR THE ENTIRE ASSEMBLY.
8. 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.

TABLE 1:

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment	Min. O.C. Distance
A	#14 Steel or 410 SS SMS (G5)	P.T. Southern Pine (SG=0.55)	1"	1-3/8"	1"
B	#14 Steel or 410 SS SMS (G5)	Aluminum, 6063-T5* (0.125" min. thickness)	3/8"	1/8"	5/8"
		Steel, A36* (0.125" min. thickness)	3/8"	1/8"	5/8"
C	1/4" Elco Ultracon	Concrete (min. 2.85 ksi)	2-1/2"	1-3/8"	3"
		Grout-Filled CMU, (ASTM C-90)	2-1/2"	1-3/4"	4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"	6"
	1/4" DeWalt Ultracon+	Concrete (min. 3.00 ksi)	2-1/2"	1-3/4"	3"
		Concrete (min. 3.00 ksi)	2-1/2"	1-3/8"	4"
		Grout-Filled CMU, (ASTM C-90)	2-1/2"	1-3/4"	4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"	3"
	1/4" Elco 410 S.S. CreteFlex	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"	6"
	5/16" Elco Ultracon	Ungrouted CMU, (ASTM C-90)	3-1/8"	1-1/4"	6"
D	1/4" Elco 410 S.S. CreteFlex	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"	3"
	5/16" Elco Ultracon	Concrete (min. 3.52 ksi)	3-1/8"	2"	3"
		Grout-Filled CMU, (ASTM C-90)	2-1/2"	2-1/4"	5"
E	3/8" Large Diameter ITW Tapcon	Concrete (min. 3 ksi)	3"	1-1/2"	4"
		Ungrouted CMU, (ASTM C-90)	3"	1-1/2"	6"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE. METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

FOR STEEL STUDS,
MIN. FU=45 KSI &
MIN. FY=33 KSI.

"UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

ALL ANCHOR HEAD TYPES ARE ALLOWED.

THIS SYSYTEM HAS BEEN TESTED TO MEET THE 400 FT-LB KINETIC ENERGY IMPACT LOADING REQUIREMENTS OF ANSI Z97.1.

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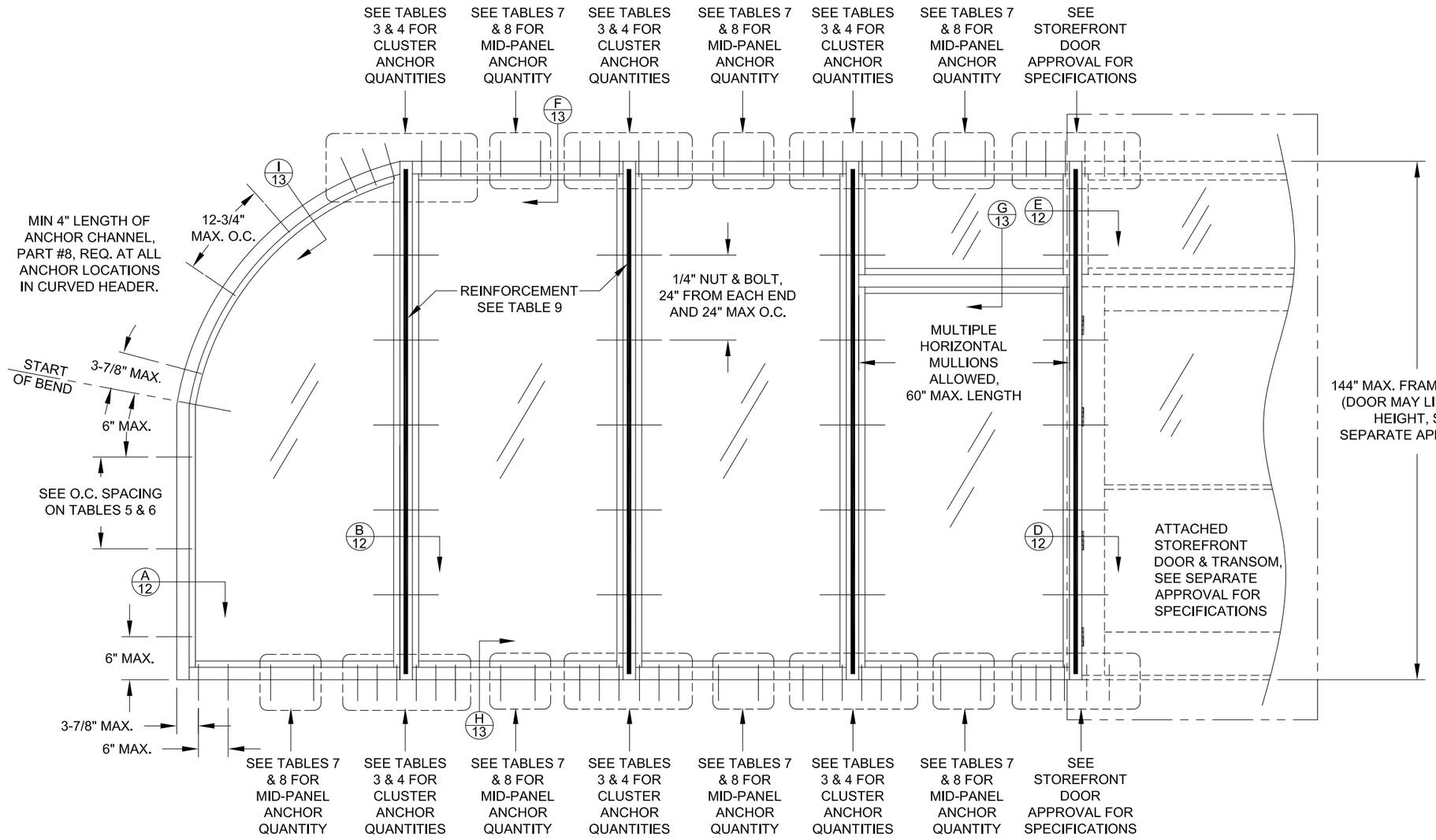
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Revised By:	Date:	Revision:
JR	09/15/20	ADDED ULTRACON+ ANCHORS AND REVERSED GLAZING.
Revised By:	Date:	Revision:

Description:	Drawn By:
GENERAL NOTES	J ROSOWSKI

Title:	Date:
STOREFRONT WINDOW SYSTEM DETAILS - LM	03/23/16

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SS-3500	NTS	1 OF 16	MD-3500-2-LM	A



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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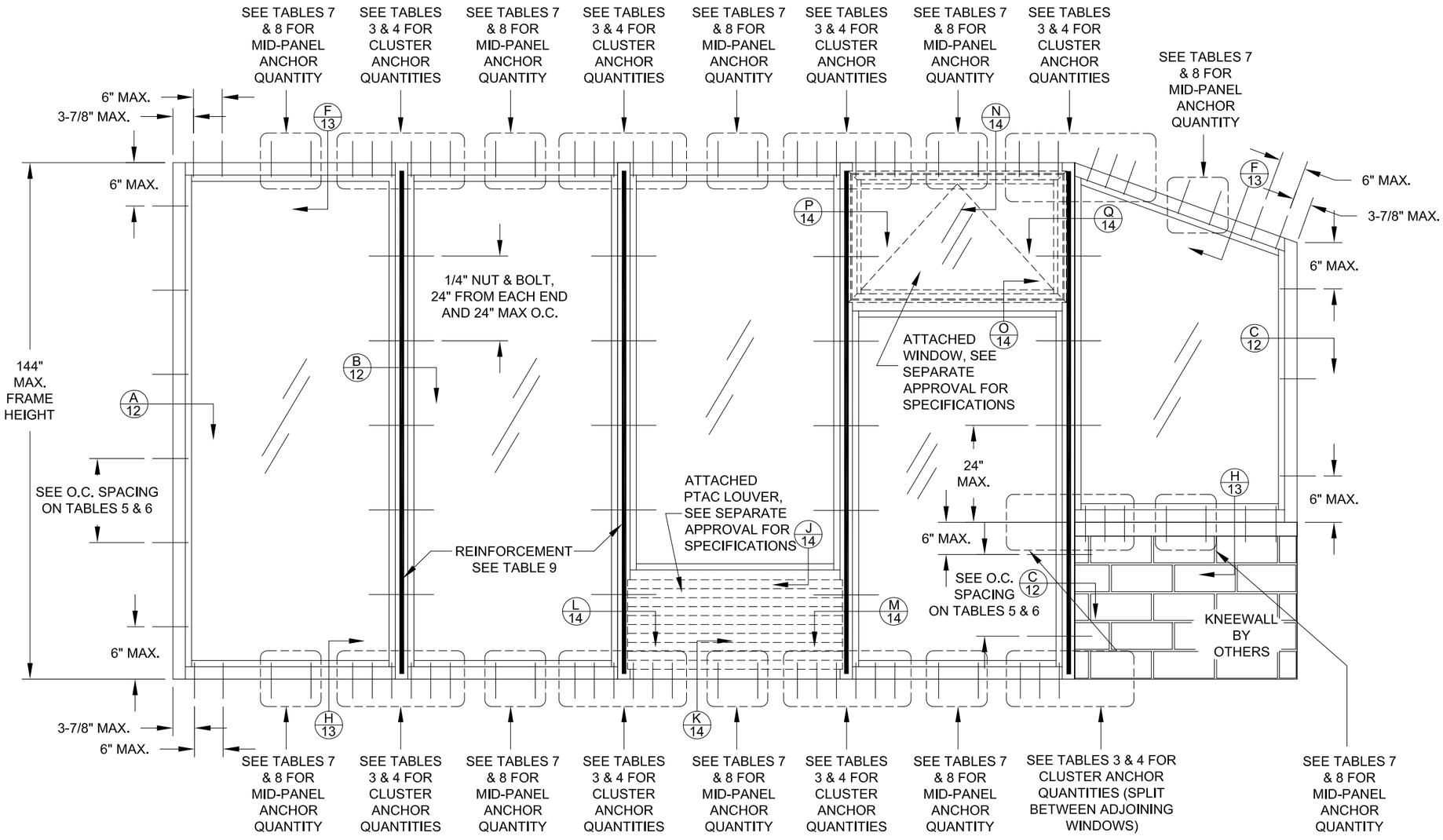
Rev.	Description	Drawn By	Date
A		J ROSOWSKI	03/23/16

Series	Desc.	Scale	Sheet	DWG No.
SS-3500	STOREFRONT WINDOW SYSTEM DETAILS - LM	NTS	2 OF 16	MD-3500-2-LM

Title: ELEVATION A

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

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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Title: ELEVATION B

Series: SS-3500 | Scale: NTS | Sheet: 3 OF 16 | DWG No.: MD-3500-2-LM | Date: 03/23/16 | Drawn By: J ROSOWSKI | Rev. Description | Rev.: A

STOREFRONT WINDOW SYSTEM DETAILS - LM

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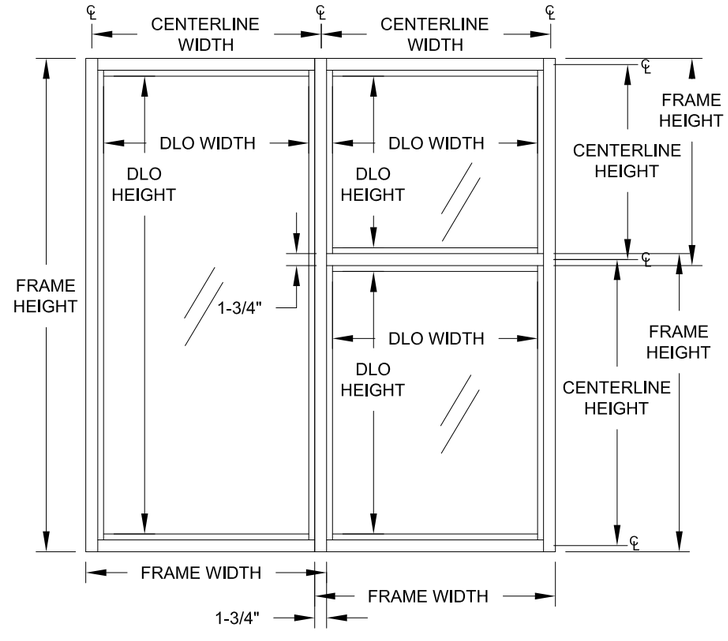
TABLE 2:

Centerline Width	Frame Height	DLO Width	DLO Height	Glass Type A & C	Glass Type B, E & E1	Glass Type C, F & F1
24"	48"	20-1/4"	42-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"		+90/-90	+70/-80	+90/-120
48"		44-1/4"		+90/-90	+70/-80	+90/-120
54"		50-1/4"		+90/-90	+70/-80	+90/-120
60"		56-1/4"		+90/-90	+70/-80	+90/-120
70"		66-1/4"		+90/-90	+70/-80	+90/-120
72"		68-1/4"		+90/-90	+70/-80	+90/-120
84"		80-1/4"		+84.5/-84.5	+70/-80	+90/-120
90"		86-1/4"		+82.3/-82.3	+70/-80	+90/-120
92"		88-1/4"		+81.7/-81.7	+70/-80	+90/-120
96"		92-1/4"		+80.5/-80.5	+70/-80	+90/-120
102"		98-1/4"				+90/-120
108"		104-1/4"				+90/-120
120"		116-1/4"				+90/-120
132"		128-1/4"				+90/-100
144"		140-1/4"				+90/-100
24"	60"	20-1/4"	54-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"		+90/-90	+70/-80	+90/-120
48"		44-1/4"		+90/-90	+70/-80	+90/-120
54"		50-1/4"		+90/-90	+70/-80	+90/-120
60"		56-1/4"		+90/-90	+70/-80	+90/-120
70"		66-1/4"		+84.5/-84.5	+70/-80	+90/-120
72"		68-1/4"		+82.8/-82.8	+70/-80	+90/-120
84"		80-1/4"				+90/-119.5
90"		86-1/4"				+90/-115.2
92"		88-1/4"				+90/-114
96"		92-1/4"				+90/-111.7
102"		98-1/4"				+90/-100
108"		104-1/4"				+90/-100
120"		116-1/4"				+90/-100
24"	72"	20-1/4"	66-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"		+90/-90	+70/-80	+90/-120
48"		44-1/4"		+90/-90	+70/-80	+90/-120
54"		50-1/4"		+85.8/-85.8	+70/-80	+90/-120
60"		56-1/4"		+82.8/-82.8	+70/-80	+90/-120
70"		66-1/4"				+90/-120
72"		68-1/4"				+90/-120
84"		80-1/4"				+90/-100
90"		86-1/4"				+90/-100
92"		88-1/4"				+90/-100
96"		92-1/4"				+90/-100
24"	78"	20-1/4"	72-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"		+90/-90	+70/-80	+90/-120
48"		44-1/4"		+87.2/-87.2	+70/-80	+90/-120
54"		50-1/4"		+82.1/-82.1	+70/-80	+90/-120
60"		56-1/4"		+78.5/-78.5	+70/-78.5	+90/-120
70"		66-1/4"				+90/-119.4
72"		68-1/4"				+90/-118.9
84"		80-1/4"				+90/-100
90"		86-1/4"				+90/-100
92"		88-1/4"				+90/-100
24"	84"	20-1/4"	78-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"		+90/-90	+70/-80	+90/-120
48"		44-1/4"		+84.5/-84.5	+70/-80	+90/-120
54"		50-1/4"		+79.1/-79.1	+70/-79.1	+90/-120
60"		56-1/4"				+90/-119.5
70"		66-1/4"				+90/-100
72"		68-1/4"				+90/-100
84"		80-1/4"				+90/-100

Centerline Width	Frame Height	DLO Width	DLO Height	Glass Type A & C	Glass Type B, E & E1	Glass Type C, F & F1
24"	90"	20-1/4"	84-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"		+90/-90	+70/-80	+90/-120
48"		44-1/4"		+82.3/-82.3	+70/-80	+90/-120
54"		50-1/4"				+90/-120
60"		56-1/4"				+90/-115.2
70"		66-1/4"				+90/-100
72"		68-1/4"				+90/-100
24"	97-3/4"	20-1/4"	92-1/4"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"		+87.9/-87.9	+70/-80	+90/-120
48"		44-1/4"		+80/-80	+70/-80	+90/-120
54"		50-1/4"				+90/-117.9
60"		56-1/4"				+90/-100
70"		66-1/4"				+90/-100
72"		68-1/4"				+90/-98.9
24"	102"	20-1/4"	96-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"		+86.9/-86.9	+70/-80	+90/-120
48"		44-1/4"				+90/-120
54"		50-1/4"				+90/-116.1
60"		56-1/4"				+90/-100
70"		66-1/4"				+90/-97.9
24"	108"	20-1/4"	102-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"		+85.6/-85.6	+70/-80	+90/-120
48"		44-1/4"				+90/-120
54"		50-1/4"				+90/-100
60"		56-1/4"				+90/-100
24"	114"	20-1/4"	108-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"				+90/-120
48"		44-1/4"				+90/-120
54"		50-1/4"				+90/-100
60"		56-1/4"				+90/-100
24"	120"	20-1/4"	114-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"				+90/-120
48"		44-1/4"				+90/-120
54"		50-1/4"				+90/-100
60"		56-1/4"				+90/-100
24"	126"	20-1/4"	120-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"		+90/-90	+70/-80	+90/-120
42"		38-1/4"				+90/-120
48"		44-1/4"				+90/-100
54"		50-1/4"				+90/-100
24"	132"	20-1/4"	126-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"				+90/-120
42"		38-1/4"				+90/-120
48"		44-1/4"				+90/-100
54"		50-1/4"				+90/-100
24"	138"	20-1/4"	132-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"				+90/-120
42"		38-1/4"				+90/-100
48"		44-1/4"				+90/-100
24"	144"	20-1/4"	138-1/2"	+90/-90	+70/-80	+90/-120
30"		26-1/4"		+90/-90	+70/-80	+90/-120
36"		32-1/4"				+90/-120
42"		38-1/4"				+90/-100
48"		44-1/4"				+90/-100

Glass Types	
A	Lami: 1/4"A, .090" SG, 1/4"A
B	Lami: 1/4"HS, .090" PVB, 1/4"HS
C	Lami: 1/4"HS, .090" SG, 1/4"HS
D	Lami IG: 1/4"A, .090" SG, 1/4"A, AIRSPACE, 1/4"T CAP
E	Lami IG: 1/4"HS, .090" PVB, 1/4"HS, AIRSPACE, 1/4"T CAP
E1	Reversed Lami IG: 1/4"HS, .090" PVB, 1/4"HS, AIRSPACE, 1/4"T CAP
F	Lami IG: 1/4"HS, .090" SG, 1/4"HS, AIRSPACE, 1/4"T CAP
F1	Reversed Lami IG: 1/4"HS, .090" SG, 1/4"HS, AIRSPACE, 1/4"T CAP

SEE SHEET 15 FOR FULL GLASS DESCRIPTIONS.



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. DLO = DAYLIGHT OPENING
3. SEE SHEET 15 FOR DESCRIPTIONS OF GLASS TYPES.

Rev. A — ADDED REVESED GLZ.

Drawn By: J ROSOWSKI
Date: 03/23/16
DWG No.: MD-3500-2-LM
Scale: NTS
Sheet: 4 OF 16

Series: SS-3500
Desc.: STOREFRONT WINDOW SYSTEM DETAILS - LM
Title: TABLE 2

Commercial
Architectural Products
CGI WINDOWS AND DOORS, INC.
10100 NW 25TH STREET
MIAMI, FL 33172
(305) 593-6590

PREPARED BY: A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275; (941) 480-1600

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CERT. OF AUTH. #29296

ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
9/22/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

TABLE 3:

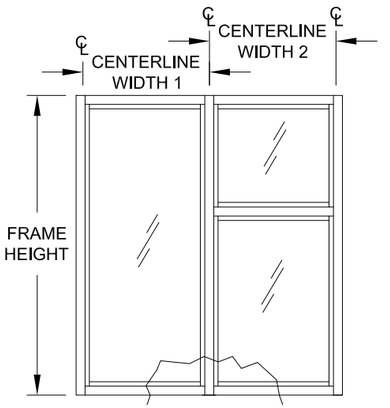
Mullion Anchor Cluster Design Pressure at Head/Sill, (+/- psf) — Shim Thickness: 1/4"

Average Centerline Width	Frame Height	Group "A" Anchor Quantity			Group "B" Anchor Quantity			Group "C" Anchor Quantity			Group "D" Anchor Quantity			Group "E" Anchor Quantity	
		4	6	8	4	6	8	4	6	8	4	6	8	4	6
24"	48"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
72"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
84"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
90"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
92"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
96"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
102"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
108"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
120"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
132"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
144"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
24"	60"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
72"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
84"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
90"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
92"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
96"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
102"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
108"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
120"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
24"	72"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
72"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
84"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
90"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
92"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
96"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
24"	78"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		118.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		113.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
72"		112.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
84"		111.8	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
90"		111.8	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
92"		111.8	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
24"	84"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		118.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		110.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		105.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		99.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
72"		98.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
84"		96.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0

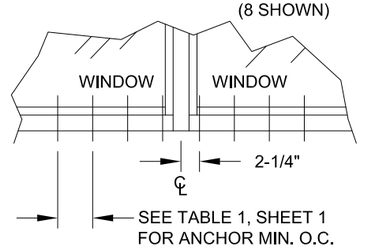
Mullion Anchor Cluster Design Pressure at Head/Sill, (+/- psf) — Shim Thickness: 1/4"

Average Centerline Width	Frame Height	Group "A" Anchor Quantity			Group "B" Anchor Quantity			Group "C" Anchor Quantity			Group "D" Anchor Quantity			Group "E" Anchor Quantity	
		4	6	8	4	6	8	4	6	8	4	6	8	4	6
24"	90"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		117.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		107.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		100.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		94.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		88.4	120.0	120.0	120.0	120.0	120.0	118.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0
72"		87.5	120.0	120.0	120.0	120.0	120.0	117.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
24"	97-3/4"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		118.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		105.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		96.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		89.0	120.0	120.0	120.0	120.0	120.0	119.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		83.7	120.0	120.0	115.9	120.0	120.0	111.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		77.4	116.2	120.0	107.2	120.0	120.0	103.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
72"		76.5	114.8	120.0	105.9	120.0	120.0	102.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
24"	102"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		112.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		100.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		90.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		84.0	120.0	120.0	116.3	120.0	120.0	112.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		78.7	118.1	120.0	109.0	120.0	120.0	105.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		72.5	108.8	120.0	100.4	120.0	120.0	97.0	120.0	120.0	114.7	120.0	120.0	120.0	120.0
24"	108"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		105.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		93.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		84.4	120.0	120.0	116.8	120.0	120.0	112.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		77.8	116.7	120.0	107.7	120.0	120.0	104.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		72.7	109.0	120.0	100.7	120.0	120.0	97.2	120.0	120.0	115.0	120.0	120.0	120.0	120.0
24"	114"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		114.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		98.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		87.1	120.0	120.0	120.0	120.0	120.0	116.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		78.7	118.1	120.0	109.0	120.0	120.0	105.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		72.4	108.6	120.0	100.3	120.0	120.0	96.9	120.0	120.0	114.5	120.0	120.0	120.0	120.0
60"		67.5	101.2	120.0	93.5	120.0	120.0	90.3	120.0	120.0	106.7	120.0	120.0	112.7	120.0
24"	120"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		108.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		92.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		81.8	120.0	120.0	113.3	120.0	120.0	109.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		73.8	110.7	120.0	102.2	120.0	120.0	98.8	120.0	120.0	116.8	120.0	120.0	120.0	120.0
54"		67.7	101.6	120.0	93.8	120.0	120.0	90.6	120.0	120.0	107.1	120.0	120.0	113.1	120.0
60"		63.0	94.5	120.0	87.2	120.0	120.0	84.3	120.0	120.0	99.6	120.0	120.0	105.2	120.0
24"	126"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		102.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		87.5	120.0	120.0	120.0	120.0	120.0	117.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		77.1	115.7	120.0	106.8	120.0	120.0	103.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		69.5	104.2	120.0	96.2	120.0	120.0	92.9	120.0	120.0	109.9	120.0	120.0	116.0	120.0
54"		63.6	95.5	120.0	88.1	120.0	120.0	85.1	120.0	120.0	100.6	120.0	120.0	106.2	120.0
24"	132"	118.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		96.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		82.9	120.0	120.0	114.8	120.0	120.0	110.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		73.0	109.5	120.0	101.0	120.0	120.0	97.6	120.0	120.0	115.4	120.0	120.0	120.0	120.0
48"		65.6	98.4	120.0	90.9	120.0	120.0	87.8	120.0	120.0	103.8	120.0	120.0	109.6	120.0
54"		60.0	90.0	120.0	83.1	120.0	120.0	80.3	120.0	120.0	94.9	120.0	120.0	100.2	120.0
24"	138"	112.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		92.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		78.7	118.1	120.0	109.0	120.0	120.0	105.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		69.2	103.8	120.0	95.9	120.0	120.0	92.6	120.0	120.0	109.5	120.0	120.0	115.6	120.0
48"		62.2	93.3	120.0	86.1	120.0	120.0	83.2	120.0	120.0	98.3	120.0	120.0	103.8	120.0
24"	144"	107.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		87.9	120.0	120.0	120.0	120.0	120.0	117.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		75.0	112.5	120.0	103.8	120.0	120.0	100.3	120.0	120.0	118.6	120.0	120.0	120.0	120.0
42"		65.9	98.8	120.0	91.2	120.0	120.0	88.1	120.0	120.0	104.1	120.0	120.0	109.9	120.0
48"		59.1	88.6	118.1	81.8	120.0	120.0	79.0	118.5	120.0	93.4	120.0	120.0	98.6	120.0

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



SILL SHOWN, HEAD SIMILAR, ANCHOR QUANTITY MAY VARY (8 SHOWN)



SEE TABLE 1, SHEET 1 FOR ANCHOR MIN. O.C. SPACING, 4" MAX.

HEAD & SILL ANCHOR PATTERN

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.

Commercial Architectural Products
CGI WINDOWS AND DOORS, INC.
10100 NW 25TH STREET
MIAMI, FL 33172
(305) 593-6590

PREPARED BY: A. LYNN MILLER
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CERT. OF AUTH. #29296

Title: TABLE 3

Desc.: STOREFRONT WINDOW SYSTEM DETAILS - LM

Series: SS-3500 | Scale: NTS | Sheet: 5 OF 16 | DWG No.: MD-3500-2-LM | Date: 03/23/16 | Drown By: J ROSOWSKI | Rev. Description | Rev.: A

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
9/22/20

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

TABLE 4:

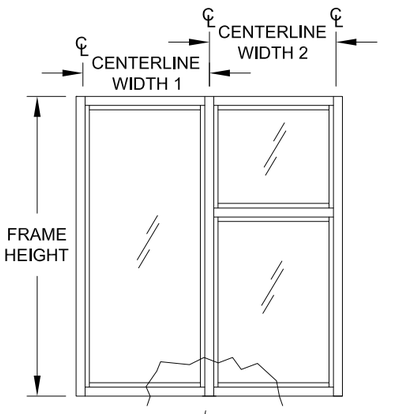
Mullion Anchor Cluster Design Pressure at Head/Sill, (+/- psf) — Shim Thickness: 1/2"

Average Centerline Width	Frame Height	Group "A" Anchor Quantity			Group "B" Anchor Quantity			Group "C" Anchor Quantity			Group "D" Anchor Quantity			Group "E" Anchor Quantity	
		4	6	8	4	6	8	4	6	8	4	6	8	4	6
24"	48"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
72"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
84"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
90"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
92"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
96"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
102"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
108"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
120"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
132"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
144"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
24"	60"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
72"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
84"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
90"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
92"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
96"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
102"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
108"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
120"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
24"	72"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		112.9	120.0	120.0	112.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		102.5	120.0	120.0	102.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		95.3	120.0	120.0	95.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		90.4	120.0	120.0	90.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		87.1	120.0	120.0	87.1	120.0	120.0	119.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		84.8	120.0	120.0	84.8	120.0	120.0	115.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
72"		84.7	120.0	120.0	84.7	120.0	120.0	115.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
84"		84.7	120.0	120.0	84.7	120.0	120.0	115.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
90"		84.7	120.0	120.0	84.7	120.0	120.0	115.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
92"		84.7	120.0	120.0	84.7	120.0	120.0	115.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
96"		84.7	120.0	120.0	84.7	120.0	120.0	115.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
24"	78"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		116.2	120.0	120.0	116.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		101.7	120.0	120.0	101.7	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		91.7	120.0	120.0	91.7	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		84.7	120.0	120.0	84.7	120.0	120.0	115.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		79.7	119.6	120.0	79.7	119.6	120.0	109.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		76.2	114.4	120.0	76.2	114.4	120.0	104.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		72.9	109.4	120.0	72.9	109.4	120.0	99.8	120.0	120.0	120.0	120.0	120.0	120.0	120.0
72"		72.6	108.9	120.0	72.6	108.9	120.0	99.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
84"		72.2	108.3	120.0	72.2	108.3	120.0	98.7	120.0	120.0	120.0	120.0	120.0	120.0	120.0
90"		72.2	108.3	120.0	72.2	108.3	120.0	98.7	120.0	120.0	120.0	120.0	120.0	120.0	120.0
92"		72.2	108.3	120.0	72.2	108.3	120.0	98.7	120.0	120.0	120.0	120.0	120.0	120.0	120.0
24"	84"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		106.1	120.0	120.0	106.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		92.4	120.0	120.0	92.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		83.0	120.0	120.0	83.0	120.0	120.0	113.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		76.2	114.4	120.0	76.2	114.4	120.0	104.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		71.3	107.0	120.0	71.3	107.0	120.0	97.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		67.8	101.7	120.0	67.8	101.7	120.0	92.7	120.0	120.0	118.1	120.0	120.0	120.0	120.0
70"		64.0	96.0	120.0	64.0	96.0	120.0	87.5	120.0	120.0	111.6	120.0	120.0	120.0	120.0
72"		63.5	95.3	120.0	63.5	95.3	120.0	86.9	120.0	120.0	110.7	120.0	120.0	120.0	120.0
84"		62.2	93.4	120.0	62.2	93.4	120.0	85.1	120.0	120.0	108.5	120.0	120.0	120.0	120.0

Mullion Anchor Cluster Design Pressure at Head/Sill, (+/- psf) — Shim Thickness: 1/2"

Average Centerline Width	Frame Height	Group "A" Anchor Quantity			Group "B" Anchor Quantity			Group "C" Anchor Quantity			Group "D" Anchor Quantity			Group "E" Anchor Quantity	
		4	6	8	4	6	8	4	6	8	4	6	8	4	6
24"	90"	117.3	120.0	120.0	117.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		97.6	120.0	120.0	97.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		84.7	120.0	120.0	84.7	120.0	120.0	115.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		75.8	113.6	120.0	75.8	113.6	120.0	103.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		69.3	104.0	120.0	69.3	104.0	120.0	94.8	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		64.5	96.8	120.0	64.5	96.8	120.0	88.3	120.0	120.0	112.5	120.0	120.0	120.0	120.0
60"		61.0	91.5	120.0	61.0	91.5	120.0	83.4	120.0	120.0	106.3	120.0	120.0	120.0	120.0
70"		57.0	85.5	114.1	57.0	85.5	114.1	78.0	117.0	120.0	99.4	120.0	120.0	120.0	120.0
72"		56.5	84.7	112.9	56.5	84.7	112.9	77.2	115.9	120.0	98.4	120.0	120.0	120.0	120.0
24"	97-3/4"	106.7	120.0	120.0	106.7	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		88.4	120.0	120.0	88.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		76.5	114.7	120.0	76.5	114.7	120.0	104.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		68.1	102.2	120.0	68.1	102.2	120.0	93.2	120.0	120.0	118.7	120.0	120.0	120.0	120.0
48"		62.0	93.0	120.0	62.0	93.0	120.0	84.8	120.0	120.0	108.1	120.0	120.0	120.0	120.0
54"		57.5	86.2	114.9	57.5	86.2	114.9	78.6	117.9	120.0	100.2	120.0	120.0	120.0	120.0
60"		54.0	81.0	108.0	54.0	81.0	108.0	73.9	110.8	120.0	94.1	120.0	120.0	120.0	120.0
70"		50.0	75.0	100.0	50.0	75.0	100.0	68.4	102.5	120.0	87.1	120.0	120.0	120.0	120.0
72"		49.4	74.1	98.8	49.4	74.1	98.8	67.5	101.3	120.0	86.1	120.0	120.0	120.0	120.0
24"	102"	101.7	120.0	120.0	101.7	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		84.1	120.0	120.0	84.1	120.0	120.0	115.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		72.6	108.9	120.0	72.6	108.9	120.0	99.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		64.5	96.8	120.0	64.5	96.8	120.0	88.3	120.0	120.0	112.5	120.0	120.0	120.0	120.0
48"		58.6	88.0	117.3	58.6	88.0	117.3	80.2	120.0	120.0	102.2	120.0	120.0	120.0	120.0
54"		54.2	81.3	108.4	54.2	81.3	108.4	74.1	111.2	120.0	94.5	120.0	120.0	120.0	120.0
60"		50.8	76.2	101.7	50.8	76.2	101.7	69.5	104.3	120.0	88.6	120.0	120.0	120.0	120.0
70"		46.8	70.2	93.6	46.8	70.2	93.6	64.0	96.0	120.0	81.6	120.0	120.0	120.0	120.0
24"	108"	95.3	120.0	120.0	95.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		78.7	118.0	120.0	78.7	118.0	120.0	107.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		67.8	101.7	120.0	67.8	101.7	120.0	92.7	120.0	120.0	118.1	120.0	120.0	120.0	120.0
42"		60.1	90.1	120.0	60.1	90.1	120.0	82.2	120.0	120.0	104.7	120.0	120.0	120.0	120.0
48"		54.5	81.7	108.9	54.5	81.7	108.9	74.5	111.7	120.0	94.9	120.0	120.0	120.0	120.0
54"		50.2	75.3	100.4	50.2	75.3	100.4	68.7	103.0	120.0	87.5	120.0	120.0	120.0	120.0
60"		46.9	70.4	93.8	46.9	70.4	93.8	64.2	96.2	120.0	81.8	120.0	120.0	120.0	120.0
24"	114"	89.7	120.0	120.0	89.7	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		73.9	110.9	120.0	73.9	110.9	120.0	101.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		63.5	95.3	120.0	63.5	95.3	120.0	86.9	120.0	120.0	110.7	120.0	120.0	120.0	120.0
42"		56.2	84.3	112.4	56.2	84.3	112.4	76.9	115.3	120.0	98.0	120.0	120.0	120.0	120.0
48"		50.8	76.2	101.7	50.8	76.2	101.7	69.5	104.3	120.0	88.6	120.0	120.0	120.0	120.0
54"		46.7	70.1	93.5	46.7	70.1	93.5	63.9	95.9	120.0	81.5	120.0	120.0	120.0	120.0
60"		43.6	65.3	87.1	43.6	65.3	87.1	59.6	89.4	119.2	75.9	113.9	120.0	112.7	120.0
24"	120"	84.7	120.0	120.0	84.7	120.0	120.0	115.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		69.7	104.6	120.0	69.7	104.6	120.0	95.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		59.8	89.7	119.6	59.8	89.7	119.6	81.8	120.0	120.0	104.2	120.0	120.0	120.0	120.0
42"		52.8	79.2	105.6	52.8	79.2	105.6	72.2	108.3	120.0	92.0	120.0	120.0	120.0	120.0
48"		47.7	71.5	95.3	47.7	71.5	95.3	65.2	97.8	120.0	83.1	120.0	120.0	120.0	120.0
54"		43.7	65.6	87.4	43.7	65.6	87.4	59.8	89.7	119.6	76.2	114.3	120.0	113.1	120.0
60"		40.7	61.0	81.3	40.7	61.0	81.3	55.6	83.4	111.2	70.9	106.3	120.0	105.2	120.0
24"	126"	80.3	120.0	120.0	80.3	120.0	120.0	109.8	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		65.9	98.9	120.0	65.9	98.9	120.0	90.2	120.0	120.0	114.9	120.0	120.0	120.0	120.0
36"		56.5	84.7	112.9	56.5	84.7	112.9	77.2	115.9	120.0	98.4	120.0	120.0	120.0	120.0
42"		49.8	74.7	99.6	49.8	74.7	99.6	68.1	102.1	120.0	86.8	120.0	120.0	120.0	120.0
48"		44.8	67.3	89.7	44.8	67.3	89.7	61.3	92.0	120.0	78.2	117.2	120.0	116.0	120.0
54"		41.1	61.6	82.1	41.1	61.6	82.1	56.2	84.3	112.3	71.6	107.4	120.0	106.2	120.0
24"	132"	76.2	114.4	120.0	76.2	114.4	120.0	104.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		62.6	93.8	120.0	62.6	93.8	120.0	85.6	120.0	120.0	109.0	120.0	120.0	120.0	120.0
36"		53.5	80.3	107.0	53.5	80.3	107.0	73.2	109.8	120.0	93.2	120.0	120.0	120.0	120.0
42"		47.1	70.6	94.2	47.1	70.6	94.2	64.4	96.6	120.0	82.1	120.0	120.0	120.0	120.0
48"		42.4	63.5	84.7	42.4	63.5	84.7	57.9	86.9	115.9	73.8	110.7	120.0	109.6	120.0
54"		38.7	58.1	77.5	38.7	58.1	77.5	53.0	79.4	105.9	67.5	101.2	120.0	100.2	120.0
24"	138"	72.6	108.9	120.0	72.6	108.9	120.0	99.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		59.5	89.3	119.0	59.5	89.3	119.0	81.4	120.0	120.0	103.7	120.0	120.0	120.0	120.0
36"		50.8	76.2	101.7	50.8	76.2	101.7	69.5	104.3	120.0	88.6	120.0	120.0	120.0	120.0
42"		44.7	67.0	89.4	44.7	67.0	89.4	61.1	91.7	120.0	77.9	116.8	120.0	115.6	120.0
48"		40.1	60.2	80.3	40.1	60.2	80.3	54.9	82.3	109.8	69.9	104.9	120.0	103.8	120.0
24"	144"	69.3	104.0	120.0	69.3	104.0	120.0	94.8	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		56.7	85.1	113.5	56.7	85.1	113.5	77.6	116.4	120.0	98.9	120.0	120.0	120.0	120.0
36"		48.4	72.6	96.8	48.4	72.6	96.8	66.2	99.3	120.0	84.4	120.0	120.0	120.0	120.0
42"		42.5	63.8	85.0	42.5	63.8	85.0	58.1	87.2	116.3	74.1	111.1	120.0	109.9	120.0
48"		38.1	57.2	76.2	38.1	57.2	76.2	52.1	78.2	104.3	66.4	99.7	120.0	98.6	120.0

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



HEAD & SILL ANCHOR PATTERN

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.

Commercial
Architectural Products
CGI WINDOWS AND DOORS, INC.
10100 NW 25TH STREET
MIAMI, FL 33172
(305) 593-6590

PREPARED BY: A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275; (941) 480-1600

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CERT. OF AUTH. #29296

Title: TABLE 4

Series: SS-3500 | Scale: NTS | Sheet: 6 OF 16 | DWG No.: MD-3500-2-LM | Date: 03/23/16 | Drawn By: J ROSOWSKI

Desc: STOREFRONT WINDOW SYSTEM DETAILS - LM

Rev. Description | Rev.
A

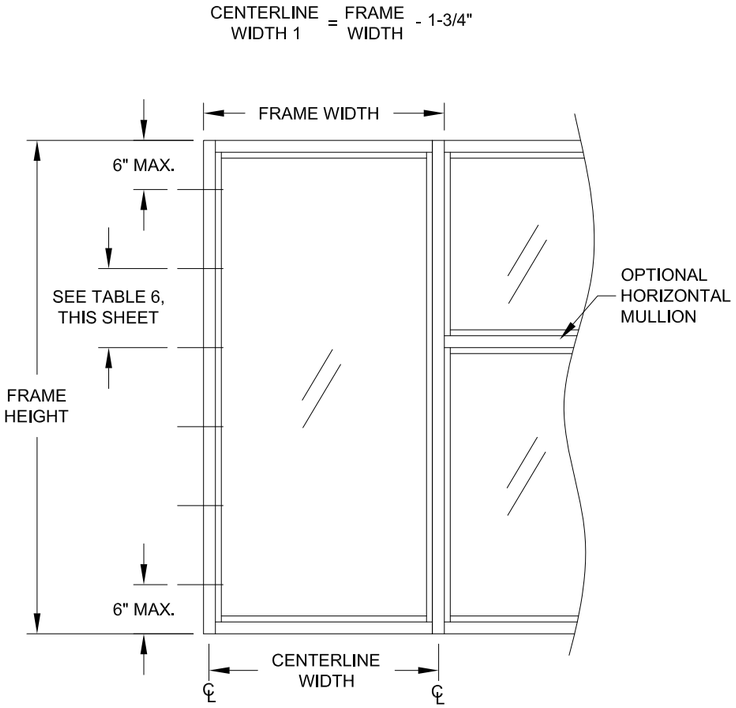
ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
9/22/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

TABLE 5:

Jamb Anchor Spacing						Shim Thickness = 1/4"
Nominal Dim.		Installed with Group "A" Anchors	Installed with Group "B" Anchors	Installed with Group "C" Anchors	Installed with Group "D" Anchors	Installed with Group "E" Anchors
Centerline Width	Frame Height					
24"	48"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		18"	18"	18"	18"	18"
42"		18"	18"	18"	18"	18"
48"		18"	18"	18"	18"	18"
54"		18"	18"	18"	18"	18"
60"		18"	18"	18"	18"	18"
70"		18"	18"	18"	18"	18"
72"		18"	18"	18"	18"	18"
84"		18"	18"	18"	18"	18"
90"		18"	18"	18"	18"	18"
92"		18"	18"	18"	18"	18"
96"		18"	18"	18"	18"	18"
102"		18"	18"	18"	18"	18"
108"		18"	18"	18"	18"	18"
120"		18"	18"	18"	18"	18"
24"	60"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		18"	18"	18"	18"	18"
42"		18"	18"	18"	18"	18"
48"		18"	18"	18"	18"	18"
54"		18"	18"	18"	18"	18"
60"		18"	18"	18"	18"	18"
70"		18"	18"	18"	18"	18"
72"		18"	18"	18"	18"	18"
84"		18"	18"	18"	18"	18"
90"		18"	18"	18"	18"	18"
92"		18"	18"	18"	18"	18"
96"		18"	18"	18"	18"	18"
102"		18"	18"	18"	18"	18"
108"		18"	18"	18"	18"	18"
120"		18"	18"	18"	18"	18"
24"	72"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		18"	18"	18"	18"	18"
42"		18"	18"	18"	18"	18"
48"		18"	18"	18"	18"	18"
54"		18"	18"	15"	18"	18"
60"		18"	18"	15"	18"	18"
70"		18"	18"	15"	18"	18"
72"		18"	18"	15"	18"	18"
84"		18"	18"	15"	18"	18"
90"		18"	18"	15"	18"	18"
92"		18"	18"	15"	18"	18"
96"		18"	18"	15"	18"	18"
24"	78"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		18"	18"	18"	18"	18"
42"		18"	18"	18"	18"	18"
48"		18"	18"	16-1/2"	18"	18"
54"		18"	18"	16-1/2"	18"	18"
60"		16-1/2"	18"	16-1/2"	18"	18"
70"		16-1/2"	18"	13-3/16"	18"	18"
72"		16-1/2"	18"	13-3/16"	18"	18"
84"		16-1/2"	18"	13-3/16"	18"	18"
90"		16-1/2"	18"	13-3/16"	18"	18"
92"		16-1/2"	18"	13-3/16"	18"	18"
24"	84"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		18"	18"	18"	18"	18"
42"		18"	18"	18"	18"	18"
48"		18"	18"	18"	18"	18"
54"		18"	18"	14-3/8"	18"	18"
60"		18"	18"	14-3/8"	18"	18"
70"		18"	18"	14-3/8"	18"	18"
72"		18"	18"	14-3/8"	18"	18"
84"		18"	18"	14-3/8"	18"	18"

Jamb Anchor Spacing						Shim Thickness = 1/4"
Nominal Dim.		Installed with Group "A" Anchors	Installed with Group "B" Anchors	Installed with Group "C" Anchors	Installed with Group "D" Anchors	Installed with Group "E" Anchors
Centerline Width	Frame Height					
24"	90"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		18"	18"	18"	18"	18"
42"		18"	18"	18"	18"	18"
48"		18"	18"	15-5/8"	18"	18"
54"		18"	18"	15-5/8"	18"	18"
60"		15-5/8"	18"	15-5/8"	18"	18"
70"		15-5/8"	18"	13"	18"	18"
72"		15-5/8"	18"	13"	18"	18"
24"	97-3/4"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		18"	18"	18"	18"	18"
42"		18"	18"	17-1/8"	18"	18"
48"		18"	18"	17-1/8"	18"	18"
54"		17-1/8"	18"	14-5/16"	18"	18"
60"		17-1/8"	18"	14-5/16"	18"	18"
70"		14-5/16"	18"	12-1/4"	18"	18"
72"		14-5/16"	18"	12-1/4"	18"	18"
24"	102"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		18"	18"	18"	18"	18"
42"		18"	18"	18"	18"	18"
48"		18"	18"	15"	18"	18"
54"		18"	18"	15"	18"	18"
60"		15"	18"	12-7/8"	18"	18"
70"		15"	18"	12-7/8"	18"	18"
24"	108"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		18"	18"	18"	18"	18"
42"		18"	18"	16"	18"	18"
48"		18"	18"	16"	18"	18"
54"		16"	18"	13-11/16"	18"	18"
60"		16"	18"	13-11/16"	18"	18"
24"	114"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		18"	18"	18"	18"	18"
42"		18"	18"	17"	18"	18"
48"		17"	18"	14-9/16"	18"	18"
54"		17"	18"	14-9/16"	18"	18"
60"		14-9/16"	18"	12-3/4"	18"	18"
24"	120"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		18"	18"	18"	18"	18"
42"		18"	18"	18"	18"	18"
48"		18"	18"	15-7/16"	18"	18"
54"		15-7/16"	18"	13-1/2"	18"	18"
60"		15-7/16"	18"	13-1/2"	18"	18"
24"	126"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		18"	18"	18"	18"	18"
42"		18"	18"	16-5/16"	18"	18"
48"		18"	18"	14-1/4"	18"	18"
54"		16-5/16"	18"	14-1/4"	18"	18"
24"	132"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		18"	18"	18"	18"	18"
42"		18"	18"	17-1/8"	18"	18"
48"		17-1/8"	18"	15"	18"	18"
54"		15"	18"	13-5/16"	18"	18"
24"	138"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		18"	18"	18"	18"	18"
42"		18"	18"	15-3/4"	18"	18"
48"		18"	18"	14"	18"	18"
24"	144"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		18"	18"	18"	18"	18"
42"		18"	18"	16-1/2"	18"	18"
48"		16-1/2"	18"	14-11/16"	18"	18"



JAMB ANCHOR SPACING

Commercial
Architectural Products
CGI WINDOWS AND DOORS, INC.
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PREPARED BY: A. LYNN MILLER
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CERT. OF AUTH. #29296

Title: TABLE 5

Desc.: STOREFRONT WINDOW SYSTEM DETAILS - LM

Series: SS-3500 | Scale: NTS | Sheet: 7 OF 16 | DWG No.: MD-3500-2-LM | Date: 03/23/16 | Drawn By: J ROSOWSKI

Rev. Description: A

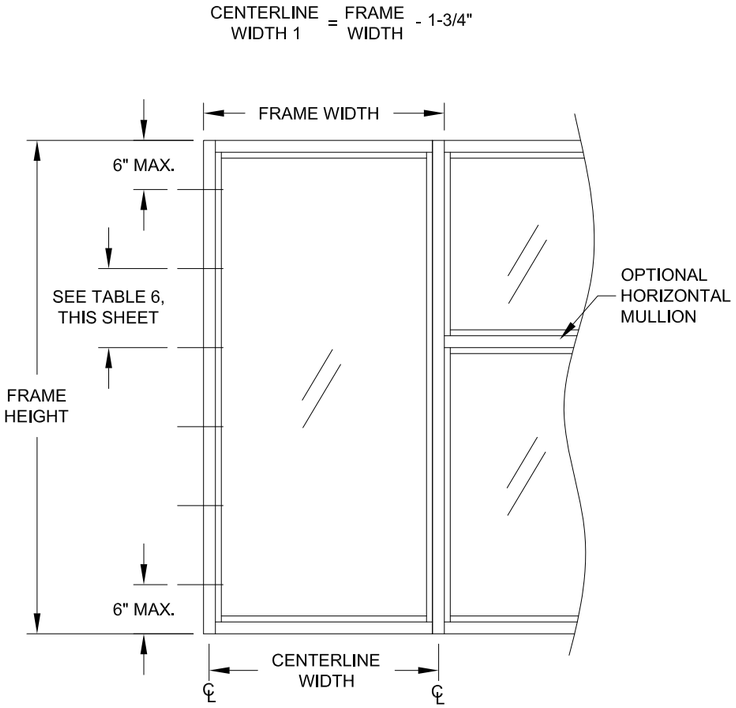
ANTHONY LYNN MILLER LICENSE No. 58705 A. Lynn Miller 9/22/20 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

TABLE 6:

Jamb Anchor Spacing						Shim Thickness = 1/2"
Nominal Dim.		Installed with Group "A" Anchors	Installed with Group "B" Anchors	Installed with Group "C" Anchors	Installed with Group "D" Anchors	Installed with Group "E" Anchors
Centerline Width	Frame Height					
24"	48"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		18"	18"	18"	18"	18"
42"		18"	18"	18"	18"	18"
48"		18"	18"	18"	18"	18"
54"		18"	18"	18"	18"	18"
60"		18"	18"	18"	18"	18"
70"		18"	18"	18"	18"	18"
72"		18"	18"	18"	18"	18"
84"		18"	18"	18"	18"	18"
90"		18"	18"	18"	18"	18"
92"		18"	18"	18"	18"	18"
96"		18"	18"	18"	18"	18"
102"		18"	18"	18"	18"	18"
108"		18"	18"	18"	18"	18"
120"		18"	18"	18"	18"	18"
132"		18"	18"	18"	18"	18"
144"		18"	18"	18"	18"	18"
24"	60"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		16"	16"	18"	18"	18"
42"		16"	16"	18"	18"	18"
48"		16"	16"	18"	18"	18"
54"		16"	16"	18"	18"	18"
60"		16"	16"	18"	18"	18"
70"		16"	16"	18"	18"	18"
72"		16"	16"	18"	18"	18"
84"		16"	16"	18"	18"	18"
90"		16"	16"	18"	18"	18"
92"		16"	16"	18"	18"	18"
96"		16"	16"	18"	18"	18"
102"		16"	16"	18"	18"	18"
108"		16"	16"	18"	18"	18"
120"		16"	16"	18"	18"	18"
24"	72"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		15"	15"	18"	18"	18"
42"		15"	15"	18"	18"	18"
48"		12"	12"	18"	18"	18"
54"		12"	12"	15"	18"	18"
60"		12"	12"	15"	18"	18"
70"		12"	12"	15"	18"	18"
72"		12"	12"	15"	18"	18"
84"		12"	12"	15"	18"	18"
90"		12"	12"	15"	18"	18"
92"		12"	12"	15"	18"	18"
96"		12"	12"	15"	18"	18"
24"	78"	18"	18"	18"	18"	18"
30"		16-1/2"	16-1/2"	18"	18"	18"
36"		16-1/2"	16-1/2"	18"	18"	18"
42"		13-3/16"	13-3/16"	18"	18"	18"
48"		13-3/16"	13-3/16"	16-1/2"	18"	18"
54"		11"	11"	16-1/2"	18"	18"
60"		11"	11"	16-1/2"	18"	18"
70"		11"	11"	13-3/16"	18"	18"
72"		11"	11"	13-3/16"	18"	18"
84"		11"	11"	13-3/16"	18"	18"
90"		11"	11"	13-3/16"	18"	18"
92"		11"	11"	13-3/16"	18"	18"
24"	84"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		14-3/8"	14-3/8"	18"	18"	18"
42"		14-3/8"	14-3/8"	18"	18"	18"
48"		12"	12"	18"	18"	18"
54"		12"	12"	14-3/8"	18"	18"
60"		10-5/16"	10-5/16"	14-3/8"	18"	18"
70"		10-5/16"	10-5/16"	14-3/8"	18"	18"
72"		10-5/16"	10-5/16"	14-3/8"	18"	18"
84"		10-5/16"	10-5/16"	14-3/8"	18"	18"

Jamb Anchor Spacing						Shim Thickness = 1/2"
Nominal Dim.		Installed with Group "A" Anchors	Installed with Group "B" Anchors	Installed with Group "C" Anchors	Installed with Group "D" Anchors	Installed with Group "E" Anchors
Centerline Width	Frame Height					
24"	90"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		15-5/8"	15-5/8"	18"	18"	18"
42"		13"	13"	18"	18"	18"
48"		13"	13"	15-5/8"	18"	18"
54"		11-1/8"	11-1/8"	15-5/8"	18"	18"
60"		11-1/8"	11-1/8"	15-5/8"	18"	18"
70"		9-3/4"	9-3/4"	13"	18"	18"
72"		9-3/4"	9-3/4"	13"	18"	18"
24"	97-3/4"	18"	18"	18"	18"	18"
30"		17-1/8"	17-1/8"	18"	18"	18"
36"		14-5/16"	14-5/16"	18"	18"	18"
42"		12-1/4"	12-1/4"	17-1/8"	18"	18"
48"		12-1/4"	12-1/4"	17-1/8"	18"	18"
54"		10-3/4"	10-3/4"	14-5/16"	18"	18"
60"		10-3/4"	10-3/4"	14-5/16"	17-1/8"	18"
70"		9-1/2"	9-1/2"	12-1/4"	17-1/8"	18"
72"		9-1/2"	9-1/2"	12-1/4"	17-1/8"	18"
24"	102"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		15"	15"	18"	18"	18"
42"		12-7/8"	12-7/8"	18"	18"	18"
48"		11-1/4"	11-1/4"	15"	18"	18"
54"		11-1/4"	11-1/4"	15"	18"	18"
60"		10"	10"	12-7/8"	18"	18"
70"		9"	9"	12-7/8"	18"	18"
24"	108"	18"	18"	18"	18"	18"
30"		16"	16"	18"	18"	18"
36"		13-11/16"	13-11/16"	18"	18"	18"
42"		13-11/16"	13-11/16"	16"	18"	18"
48"		12"	12"	16"	18"	18"
54"		10-11/16"	10-11/16"	13-11/16"	18"	18"
60"		9-5/8"	9-5/8"	13-11/16"	18"	18"
24"	114"	18"	18"	18"	18"	18"
30"		17"	17"	18"	18"	18"
36"		14-9/16"	14-9/16"	18"	18"	18"
42"		12-3/4"	12-3/4"	17"	18"	18"
48"		11-5/16"	11-5/16"	14-9/16"	18"	18"
54"		10-3/16"	10-3/16"	14-9/16"	18"	18"
60"		9-1/4"	9-1/4"	12-3/4"	17"	18"
24"	120"	18"	18"	18"	18"	18"
30"		18"	18"	18"	18"	18"
36"		13-1/2"	13-1/2"	18"	18"	18"
42"		12"	12"	18"	18"	18"
48"		10-13/16"	10-13/16"	15-7/16"	18"	18"
54"		10-13/16"	10-13/16"	13-1/2"	18"	18"
60"		9-13/16"	9-13/16"	13-1/2"	18"	18"
24"	126"	18"	18"	18"	18"	18"
30"		16-5/16"	16-5/16"	18"	18"	18"
36"		14-1/4"	14-1/4"	18"	18"	18"
42"		12-11/16"	12-11/16"	16-5/16"	18"	18"
48"		11-3/8"	11-3/8"	14-1/4"	18"	18"
54"		10-3/8"	10-3/8"	14-1/4"	18"	18"
24"	132"	18"	18"	18"	18"	18"
30"		17-1/8"	17-1/8"	18"	18"	18"
36"		15"	15"	18"	18"	18"
42"		12"	12"	17-1/8"	18"	18"
48"		10-15/16"	10-15/16"	15"	18"	18"
54"		10"	10"	13-5/16"	17-1/8"	18"
24"	138"	18"	18"	18"	18"	18"
30"		15-3/4"	15-3/4"	18"	18"	18"
36"		14"	14"	18"	18"	18"
42"		12-5/8"	12-5/8"	15-3/4"	18"	18"
48"		11-7/16"	11-7/16"	14"	18"	18"
24"	144"	18"	18"	18"	18"	18"
30"		16-1/2"	16-1/2"	18"	18"	18"
36"		14-11/16"	14-11/16"	18"	18"	18"
42"		12"	12"	16-1/2"	18"	18"
48"		11"	11"	14-11/16"	18"	18"



JAMB ANCHOR SPACING

Commercial
Architectural Products
CGI WINDOWS AND DOORS, INC.
10100 NW 25TH STREET
MIAMI, FL 33172
(305) 593-6590

PREPARED BY: A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275; (941) 480-1600

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CERT. OF AUTH. #29296

Title: TABLE 6

Desc.: STOREFRONT WINDOW SYSTEM DETAILS - LM

Series: SS-3500 | Scale: NTS | Sheet: 8 OF 16 | DWG No.: MD-3500-2-LM | Date: 03/23/16 | Drawn By: J ROSOWSKI

Rev. Description: A

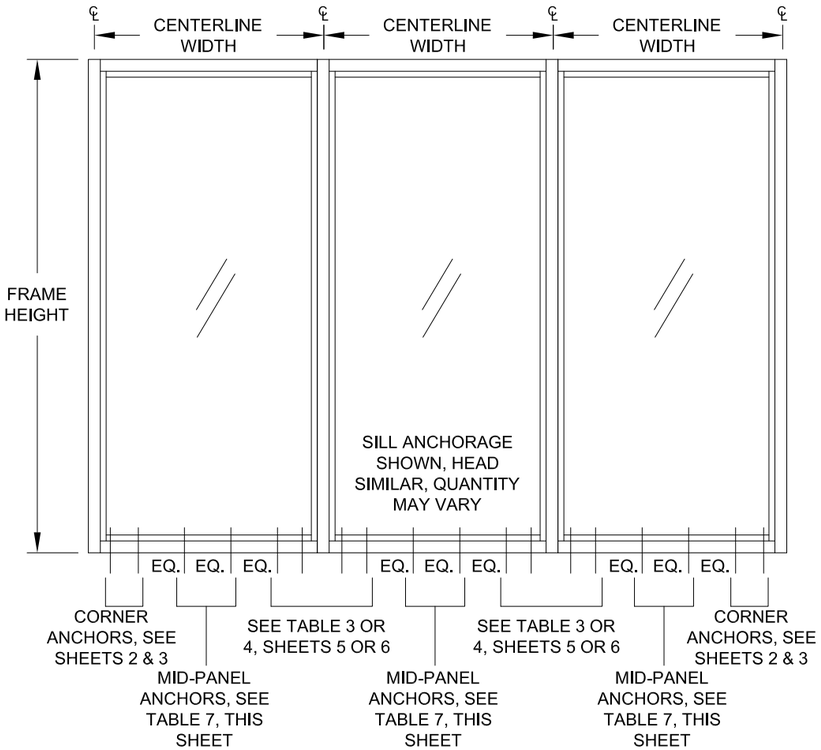
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
9/22/20

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

TABLE 7:

Mid-Panel Anchor Quantity						Shim Thickness = 1/4"
Nominal Dim.		Installed with Group "A" Anchors	Installed with Group "B" Anchors	Installed with Group "C" Anchors	Installed with Group "D" Anchors	Installed with Group "E" Anchors
Centerline Width	Frame Height					
24"	48"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
70"		4	3	3	3	3
72"		4	3	3	3	3
84"		5	4	4	4	4
90"		5	4	4	4	4
92"		5	5	5	5	5
96"		5	5	5	5	5
102"		6	5	5	5	5
108"		6	6	6	6	6
120"		7	6	6	6	6
132"		8	7	7	7	7
144"		9	8	8	8	8
24"	60"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
70"		4	3	3	3	3
72"		4	3	3	3	3
84"		5	4	4	4	4
90"		6	4	4	4	4
92"		6	5	5	5	5
96"		6	5	5	5	5
102"		7	5	5	5	5
108"		7	6	6	6	6
120"		8	6	6	6	6
24"	72"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
70"		4	3	3	3	3
72"		4	3	3	3	3
84"		5	4	4	4	4
90"		6	4	5	4	4
92"		6	5	5	5	5
96"		7	5	5	5	5
24"	78"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
70"		4	3	3	3	3
72"		4	3	3	3	3
84"		5	4	4	4	4
90"		6	5	5	4	4
92"		6	5	5	5	5
24"	84"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
70"		4	3	3	3	3
72"		4	3	3	3	3
84"		5	4	4	4	4

Mid-Panel Anchor Quantity						Shim Thickness = 1/4"
Nominal Dim.		Installed with Group "A" Anchors	Installed with Group "B" Anchors	Installed with Group "C" Anchors	Installed with Group "D" Anchors	Installed with Group "E" Anchors
Centerline Width	Frame Height					
24"	90"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
70"		4	3	3	3	3
72"		4	3	3	3	3
24"	97-3/4"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
70"		4	3	3	3	3
72"		4	3	3	3	3
24"	102"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
70"		4	3	3	3	3
24"	108"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
24"	114"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
24"	120"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
60"		3	2	2	2	2
24"	126"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
24"	132"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
54"		3	2	2	2	2
24"	138"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1
24"	144"	1	1	1	1	1
30"		1	1	1	1	1
36"		1	1	1	1	1
42"		2	1	1	1	1
48"		2	2	2	2	1



MID-PANEL ANCHOR PATTERN

NOTES:

1. MID-PANEL ANCHORS TO BE EQUALLY SPACED, +/- 1/2".

Commercial
Architectural Products
CGI WINDOWS AND DOORS, INC.
10100 NW 25TH STREET
MIAMI, FL 33172
(305) 593-6590

PREPARED BY: A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275: (941) 480-1600

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CERT. OF AUTH: #29296

Rev.	Description	Drawn By	Date
A		J ROSOWSKI	03/23/16

Series	Desc.	Scale	Sheet	DWG No.	Rev.
SS-3500	STOREFRONT WINDOW SYSTEM DETAILS - LM	NTS	9 OF 16	MD-3500-2-LM	A

Title: TABLE 7

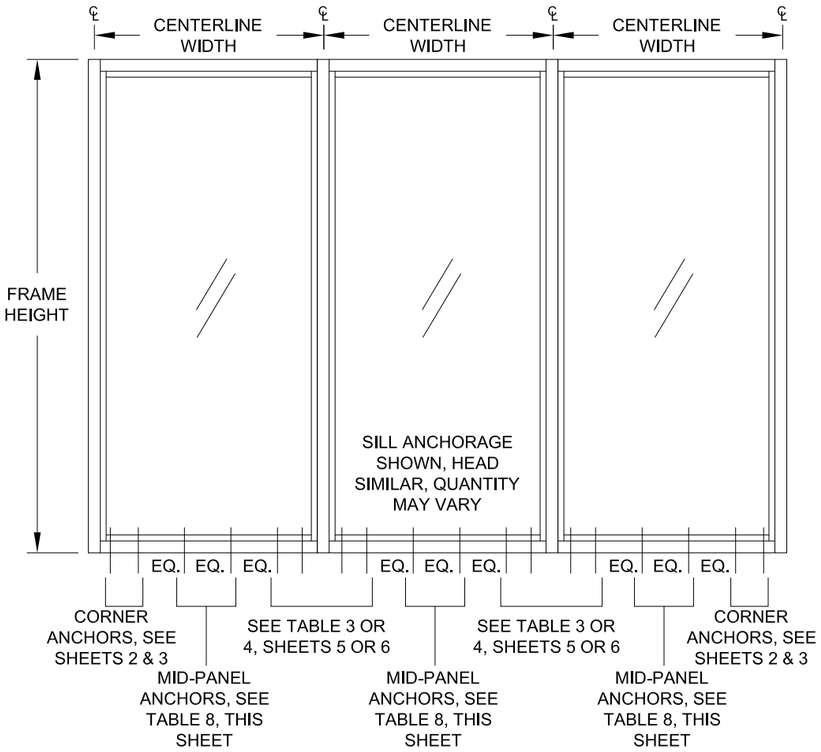
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
9/22/20

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

TABLE 8:

Mid-Panel Anchor Quantity						Shim Thickness = 1/2"
Nominal Dim.		Installed with Group "A" Anchors	Installed with Group "B" Anchors	Installed with Group "C" Anchors	Installed with Group "D" Anchors	Installed with Group "E" Anchors
Centerline Width	Frame Height					
24"	48"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
70"		5	5	4	3	3
72"		6	6	4	3	3
84"		7	7	5	4	4
90"		7	7	6	4	4
92"		8	8	6	5	5
96"		8	8	6	5	5
102"		9	9	6	5	5
108"		9	9	7	6	6
120"		11	11	8	6	6
132"		12	12	9	7	7
144"		13	13	10	8	8
24"	60"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
70"		6	6	4	4	3
72"		6	6	5	4	3
84"		8	8	6	5	4
90"		8	8	6	5	4
92"		9	9	6	5	5
96"		9	9	7	5	5
102"		10	10	7	6	5
108"		11	11	8	6	6
120"		12	12	9	7	6
24"	72"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
70"		6	6	4	4	3
72"		6	6	5	4	3
84"		8	8	6	5	4
90"		9	9	7	5	4
92"		9	9	7	6	5
96"		10	10	7	6	5
24"	78"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
70"		6	6	4	4	3
72"		6	6	5	4	3
84"		8	8	6	5	4
90"		9	9	7	5	4
92"		10	10	7	6	5
24"	84"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
70"		6	6	4	4	3
72"		6	6	5	4	3
84"		8	8	6	5	4

Mid-Panel Anchor Quantity						Shim Thickness = 1/2"
Nominal Dim.		Installed with Group "A" Anchors	Installed with Group "B" Anchors	Installed with Group "C" Anchors	Installed with Group "D" Anchors	Installed with Group "E" Anchors
Centerline Width	Frame Height					
24"	90"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
70"		6	6	4	4	3
72"		6	6	5	4	3
24"	97-3/4"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
70"		6	6	4	4	3
72"		6	6	5	4	3
24"	102"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
70"		6	6	4	4	3
24"	108"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
24"	114"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
24"	120"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
60"		4	4	3	3	2
24"	126"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
24"	132"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
54"		4	4	3	2	2
24"	138"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1
24"	144"	1	1	1	1	1
30"		1	1	1	1	1
36"		2	2	2	1	1
42"		2	2	2	2	1
48"		3	3	2	2	1



MID-PANEL ANCHOR PATTERN

NOTES:

1. MID-PANEL ANCHORS TO BE EQUALLY SPACED, +/- 1/2".

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CERT. OF AUTH: #29296

Rev.	Description	Drawn By	Date
A		J ROSOWSKI	03/23/16

Series	Desc.	Title	Scale	Sheet	DWG No.	Rev.
SS-3500	STOREFRONT WINDOW SYSTEM DETAILS - LM	TABLE 8	NTS	10 OF 16	MD-3500-2-LM	A

ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
9/22/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER

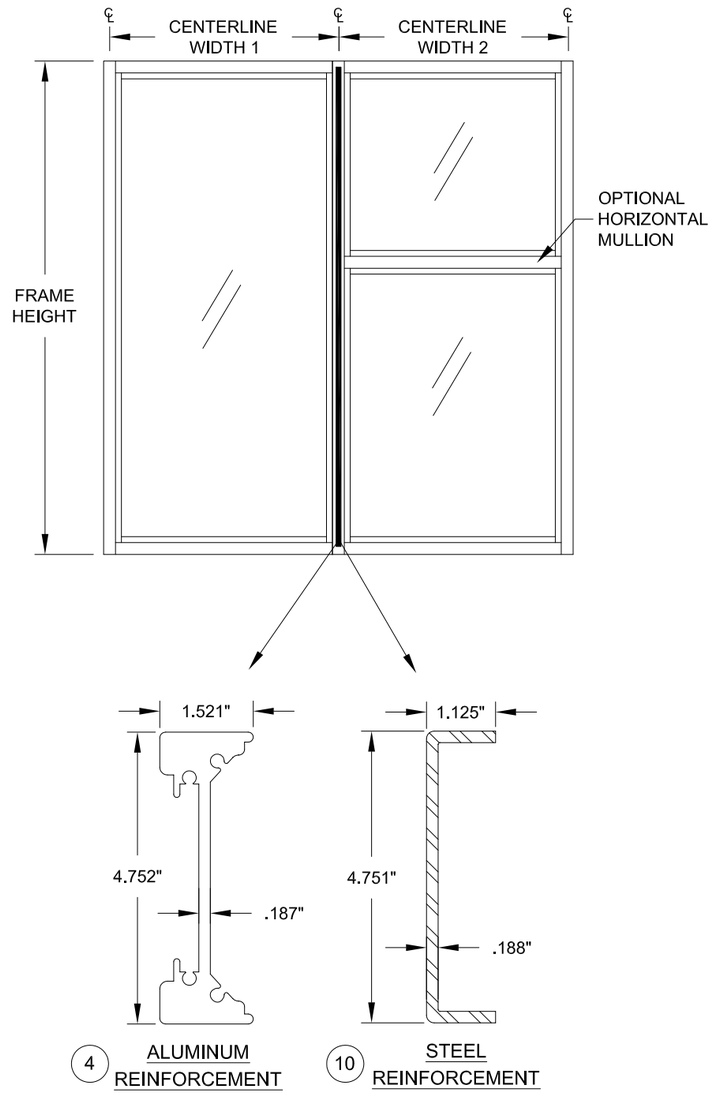
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 9:

Maximum Vertical Mullion Design Pressure, (psf)				
Average Centerline Width	Frame Height	No Reinforcement	Alum. Reinforcement (part #4)	Steel Reinforcement (part #10)
24"	48"	+90/-90	+90/-100	+90/-120
30"		+90/-90	+90/-100	+90/-120
36"		+90/-90	+90/-100	+90/-120
42"		+90/-90	+90/-100	+90/-120
48"		+90/-90	+90/-100	+90/-120
54"		+90/-90	+90/-100	+90/-120
60"		+90/-90	+90/-100	+90/-120
70"		+90/-90	+90/-100	+90/-120
72"		+90/-90	+90/-100	+90/-120
84"		+90/-90	+90/-100	+90/-120
90"		+90/-90	+90/-100	+90/-120
92"		+90/-90	+90/-100	+90/-120
96"		+90/-90	+90/-100	+90/-120
102"			+90/-100	+90/-120
108"			+90/-100	+90/-120
120"			+90/-100	+90/-120
132"				+90/-100
144"				+90/-100
24"	60"	+90/-90	+90/-100	+90/-120
30"		+90/-90	+90/-100	+90/-120
36"		+90/-90	+90/-100	+90/-120
42"		+90/-90	+90/-100	+90/-120
48"		+90/-90	+90/-100	+90/-120
54"		+90/-90	+90/-100	+90/-120
60"		+90/-90	+90/-100	+90/-120
70"		+90/-90	+90/-100	+90/-120
72"		+90/-90	+90/-100	+90/-120
84"			+90/-100	+90/-120
90"			+90/-100	+90/-120
92"			+90/-100	+90/-120
96"			+90/-100	+90/-120
102"				+90/-100
108"				+90/-100
120"				+90/-100
24"	72"	+90/-90	+90/-100	+90/-120
30"		+90/-90	+90/-100	+90/-120
36"		+90/-90	+90/-100	+90/-120
42"		+90/-90	+90/-100	+90/-120
48"		+90/-90	+90/-100	+90/-120
54"		+90/-90	+90/-100	+90/-120
60"		+90/-90	+90/-100	+90/-120
70"			+90/-100	+90/-120
72"			+90/-100	+90/-120
84"			+90/-100	+90/-120
90"			+90/-100	+90/-120
92"			+90/-100	+90/-120
96"			+90/-100	+90/-120
24"	78"	+90/-90	+90/-100	+90/-120
30"		+90/-90	+90/-100	+90/-120
36"		+90/-90	+90/-100	+90/-120
42"		+90/-90	+90/-100	+90/-120
48"		+90/-90	+90/-100	+90/-120
54"		+90/-90	+90/-100	+90/-120
60"		+90/-90	+90/-100	+90/-120
70"			+90/-100	+90/-120
72"			+90/-100	+90/-120
84"			+90/-100	+90/-120
90"			+90/-100	+90/-120
92"			+90/-100	+90/-120
96"			+90/-100	+90/-120
24"	84"	+90/-90	+90/-100	+90/-120
30"		+90/-90	+90/-100	+90/-120
36"		+90/-90	+90/-100	+90/-120
42"		+90/-90	+90/-100	+90/-120
48"		+90/-90	+90/-100	+90/-120
54"		+90/-90	+90/-100	+90/-120
60"			+90/-100	+90/-120
70"			+90/-100	+90/-120
72"			+90/-100	+90/-120
84"			+90/-100	+90/-120

Maximum Vertical Mullion Design Pressure, (psf)				
Average Centerline Width	Frame Height	No Reinforcement	Alum. Reinforcement (part #4)	Steel Reinforcement (part #10)
24"	90"	+90/-90	+90/-100	+90/-120
30"		+90/-90	+90/-100	+90/-120
36"		+90/-90	+90/-100	+90/-120
42"		+90/-90	+90/-100	+90/-120
48"		+89.4/-89.4	+90/-100	+90/-120
54"			+90/-100	+90/-120
60"			+90/-100	+90/-120
70"				+90/-100
72"				+90/-100
24"	97-3/4	+90/-90	+90/-100	+90/-120
30"		+90/-90	+90/-100	+90/-120
36"		+90/-90	+90/-100	+90/-120
42"		+87.9/-87.9	+90/-100	+90/-120
48"		+80/-80	+90/-100	+90/-120
54"			+90/-100	+90/-120
60"				+90/-100
70"				+90/-100
72"				+90/-100
24"	102"	+90/-90	+90/-100	+90/-120
30"		+90/-90	+90/-100	+90/-120
36"		+88.3/-88.3	+90/-100	+90/-120
42"		+77.1/-77.1	+90/-100	+90/-120
48"			+90/-100	+90/-120
54"			+90/-100	+90/-120
60"				+90/-100
70"				+90/-100
24"	108"	+90/-90	+90/-100	+90/-120
30"		+87.5/-87.5	+90/-100	+90/-120
36"		+74/-74	+90/-100	+90/-120
42"		+64.5/-64.5	+90/-100	+90/-120
48"			+90/-100	+90/-120
54"				+90/-100
60"				+90/-100
24"	114"	+90/-90	+90/-100	+90/-120
30"		+74.2/-74.2	+90/-100	+90/-120
36"		+62.6/-62.6	+90/-100	+90/-120
42"			+90/-100	+90/-120
48"			+90/-100	+90/-120
54"				+90/-100
60"				+90/-100
24"	120"	+78.5/-78.5	+90/-100	+90/-120
30"		+63.4/-63.4	+90/-100	+90/-120
36"		+53.5/-53.5	+90/-100	+90/-120
42"			+90/-100	+90/-120
48"			+90/-100	+90/-120
54"				+90/-100
60"				+90/-100
24"	126"	+67.7/-67.7	+90/-100	+90/-120
30"		+54.6/-54.6	+90/-100	+90/-120
36"		+46/-46	+90/-100	+90/-120
42"			+87.1/-96.8	+90/-116.5
48"				+90/-100
54"				+84/-93.4
24"	132"	+58.8/-58.8	+90/-100	+90/-120
30"		+47.4/-47.4	+90/-100	+90/-120
36"			+87.1/-96.7	+90/-116.4
42"			+75.4/-83.8	+90/-100.9
48"				+80.5/-89.4
54"				+72.6/-80.6
24"	138"	+51.4/-51.4	+90/-100	+90/-120
30"		+41.4/-41.4	+90/-100	+90/-120
36"			+76/-84.4	+90/-101.6
42"				+79.2/-88
48"				+70.1/-77.9
24"	144"	+45.2/-45.2	+90/-100	+90/-120
30"		+36.4/-36.4	+79.5/-88.3	+90/-106.3
36"			+66.7/-74.1	+80.3/-89.3
42"				+69.5/-77.2
48"				+61.5/-68.3

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



4 ALUMINUM REINFORCEMENT

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.

Rev. A

Rev. Description

Drawn By: J ROSOWSKI

Date: 03/23/16

DWG No.: MD-3500-2-LM

Scale: NTS

Sheet: 11 OF 16

Series: SS-3500

Desc.: STOREFRONT WINDOW SYSTEM DETAILS - LM

Title: TABLE 9

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1070 TECHNOLOGY DRIVE
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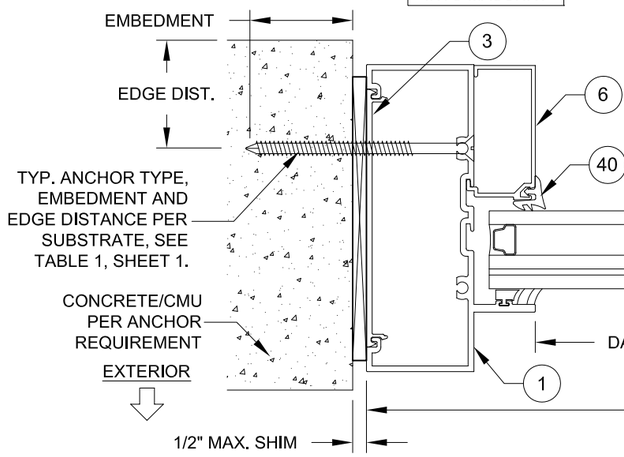
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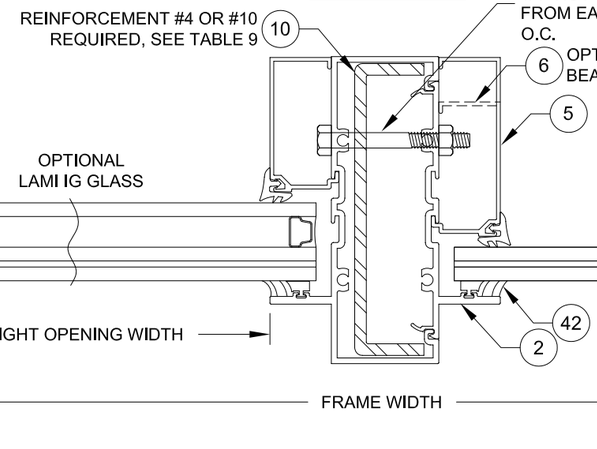
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LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
9/22/20

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

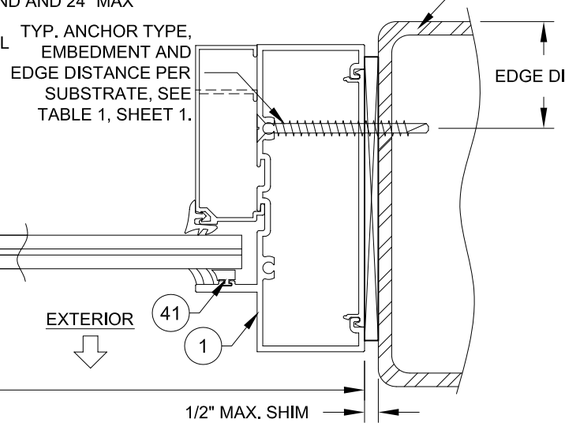
DETAIL A1
INTO MASONRY



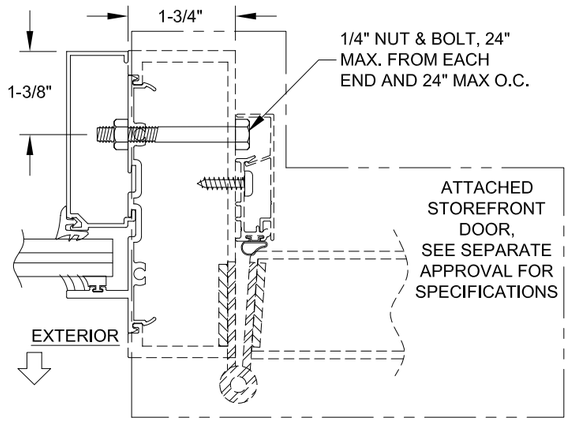
DETAIL B
MULLION



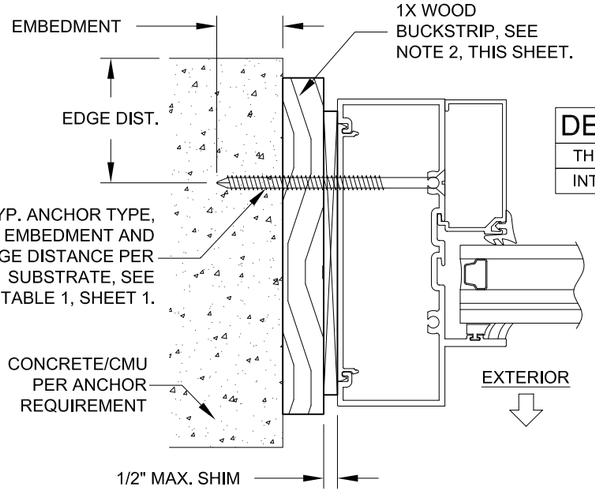
DETAIL C
INTO METAL



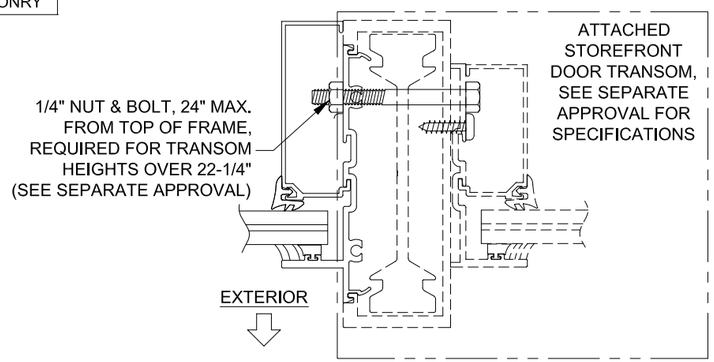
DETAIL D
STOREFRONT WINDOW TO DOOR



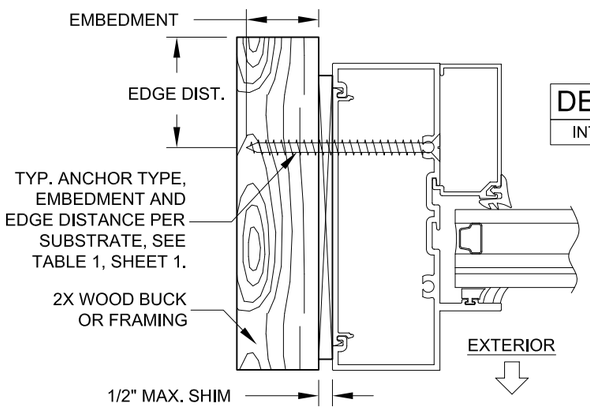
DETAIL A2
THRU 1X WOOD
INTO MASONRY



DETAIL E
STOREFRONT WINDOW TO TRANSOM



DETAIL A3
INTO 2X WOOD



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 AS REQUIRED BY TABLES 3-8, SHEETS 5-10.



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

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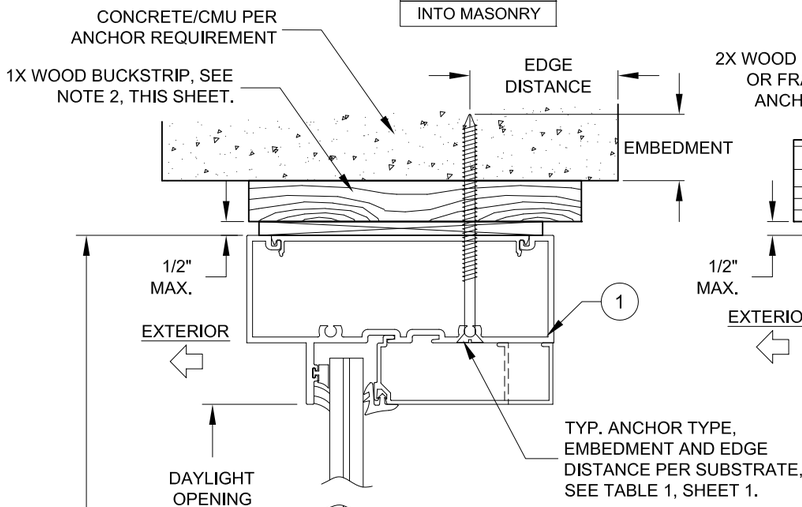
Revised By:	Date:	Revision:
Revised By:	Date:	Revision:

Description:	Drawn By:
HORIZONTAL X-SECTION	J ROSOWSKI

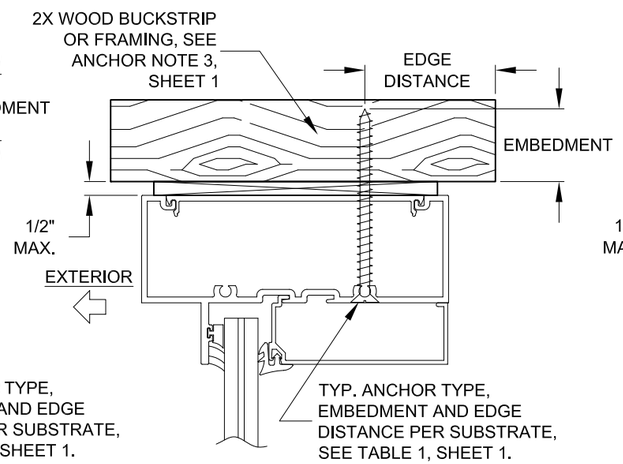
Title:	Date:
STOREFRONT WINDOW SYSTEM DETAILS - LM	03/23/16

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SS-3500	NTS	12 OF 16	MD-3500-2-LM	A

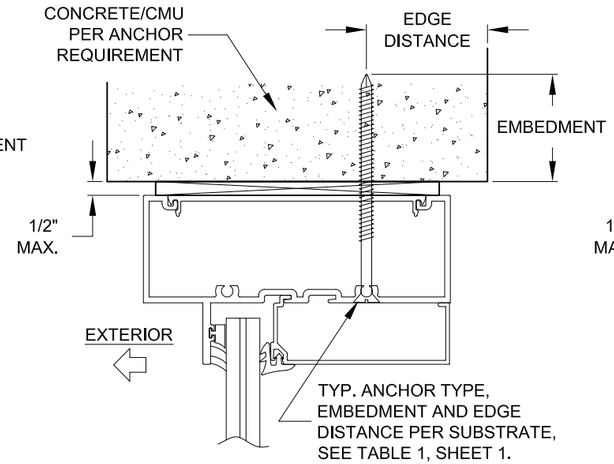
DETAIL F1
THRU 1X WOOD
INTO MASONRY



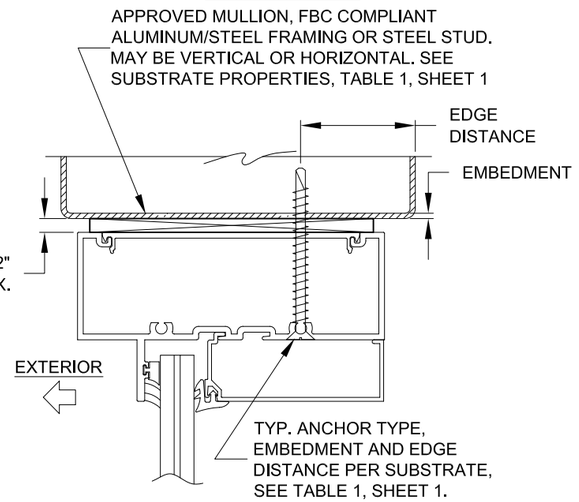
DETAIL F2
INTO WOOD

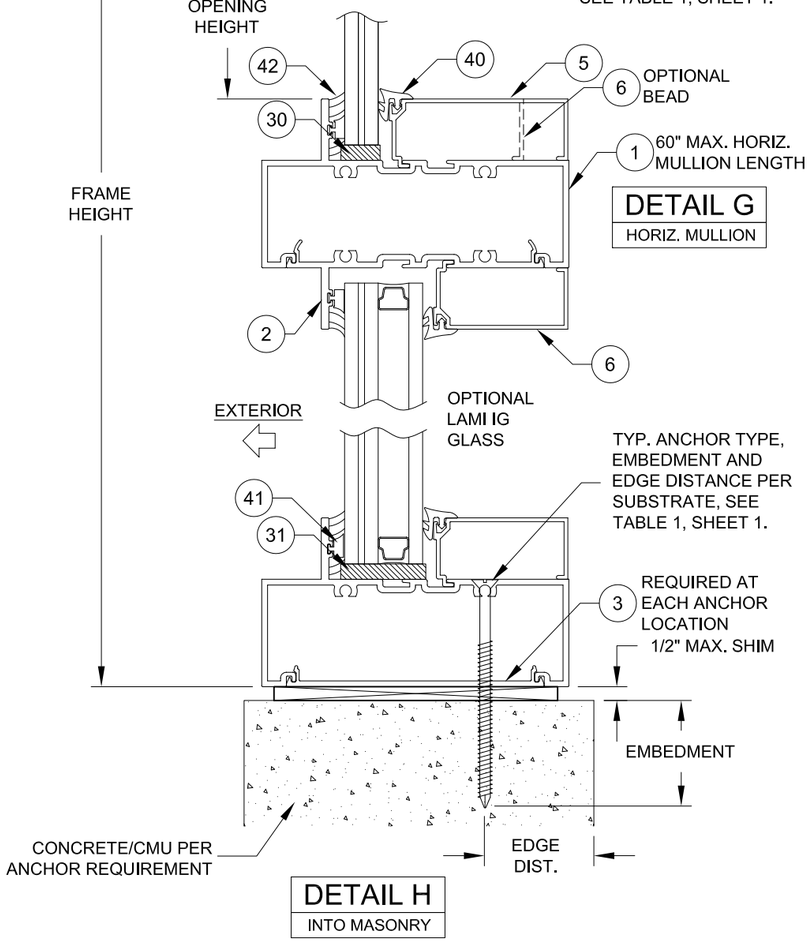


DETAIL F3
INTO MASONRY



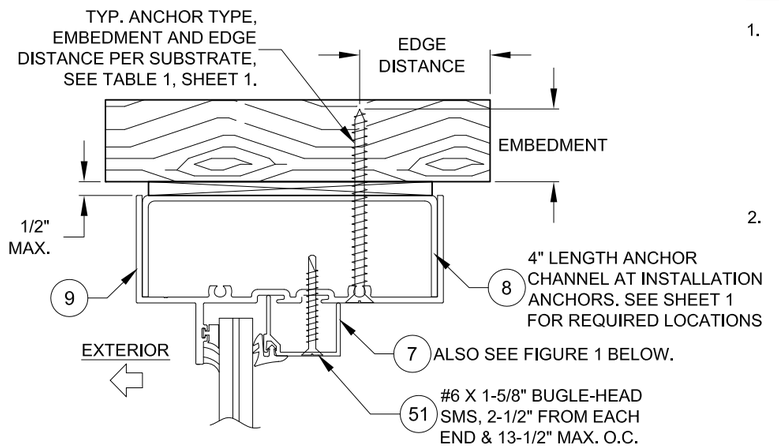
DETAIL F4
INTO METAL





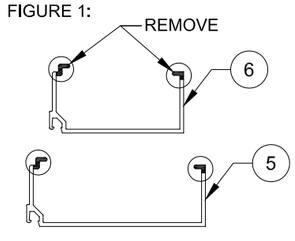
DETAIL G
HORIZ. MULLION

DETAIL H
INTO MASONRY



DETAIL I
CURVED HEADER

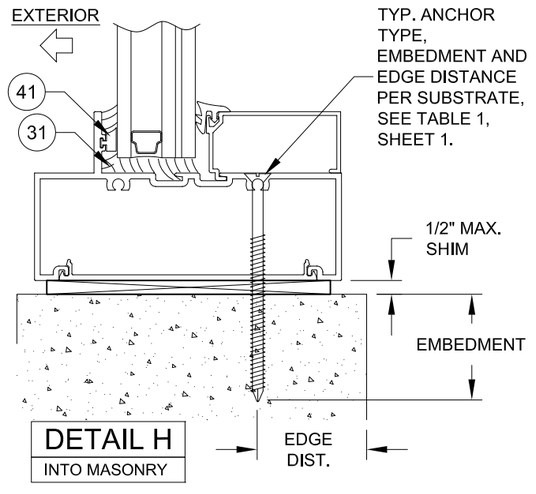
FIGURE 1:



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

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 AS REQUIRED BY TABLES 3-8, SHEETS 5-10.



DETAIL H
INTO MASONRY

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

ANTHONY LYNN MILLER LICENSE No. 58705 A. Lynn Miller 9/22/20 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

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PREPARED BY: A. LYNN MILLER
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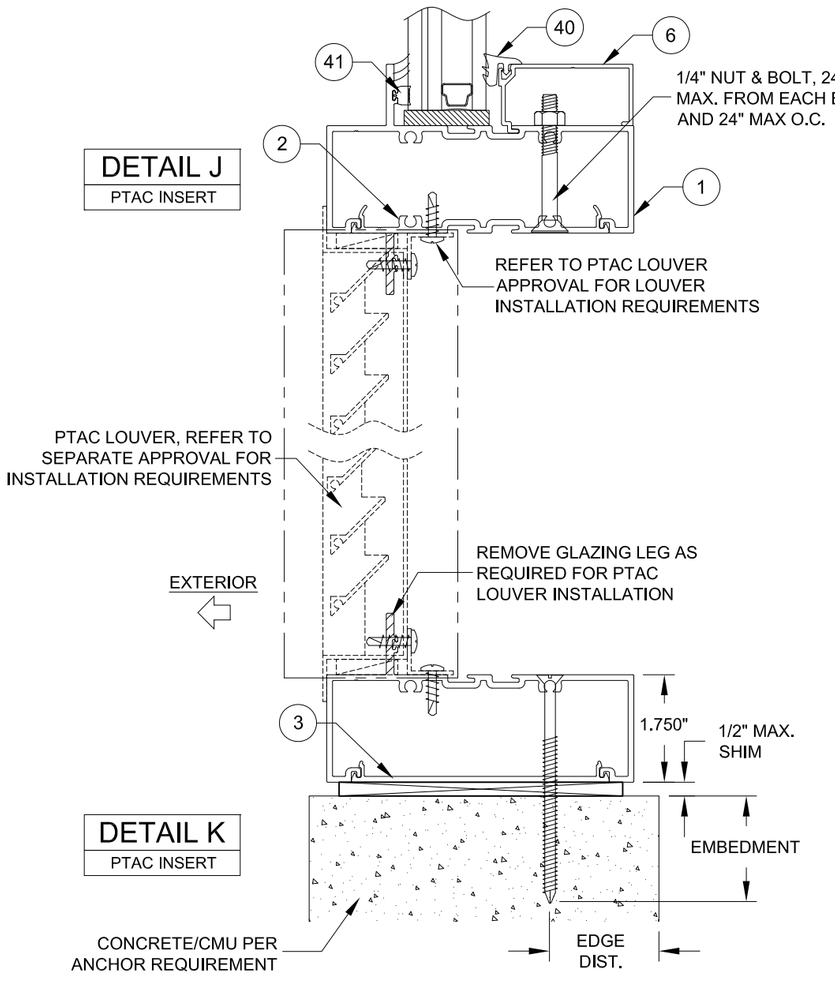
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Revised By:	Date:	Revision:
JR	09/15/20	ADDED REVERSED GLAZING DETAIL.
Revised By:	Date:	Revision:

Description:	Drawn By:
VERTICAL X-SECTION	J ROSOWSKI

Title:	Date:
STOREFRONT WINDOW SYSTEM DETAILS - LM	03/23/16

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
SS-3500	NTS	13 OF 16	MD-3500-2-LM	A



DETAIL J
PTAC INSERT

DETAIL K
PTAC INSERT

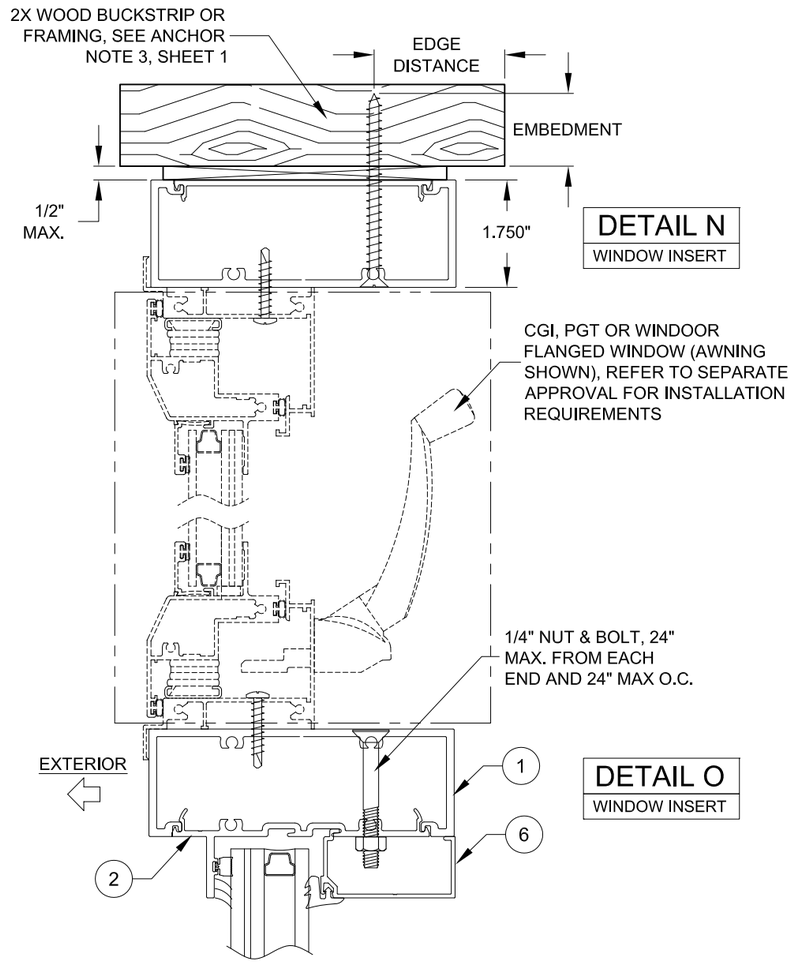
PTAC LOUVER & WINDOW INSERT NOTES:

1. REFER TO SEPARATE WINDOW APPROVAL FOR ALL WINDOW INSERT REQUIREMENTS AND INSTALLATION.
2. AWNING WINDOW INSERT SHOWN BUT MAY BE ANY APPROVED PGT 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:

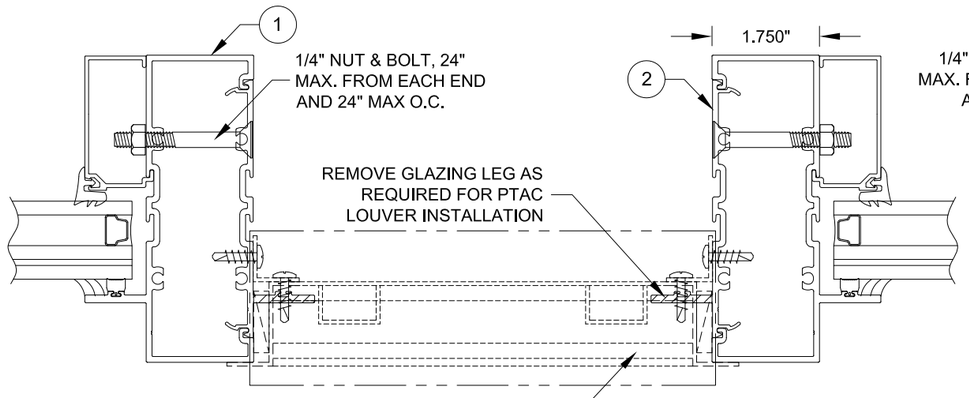
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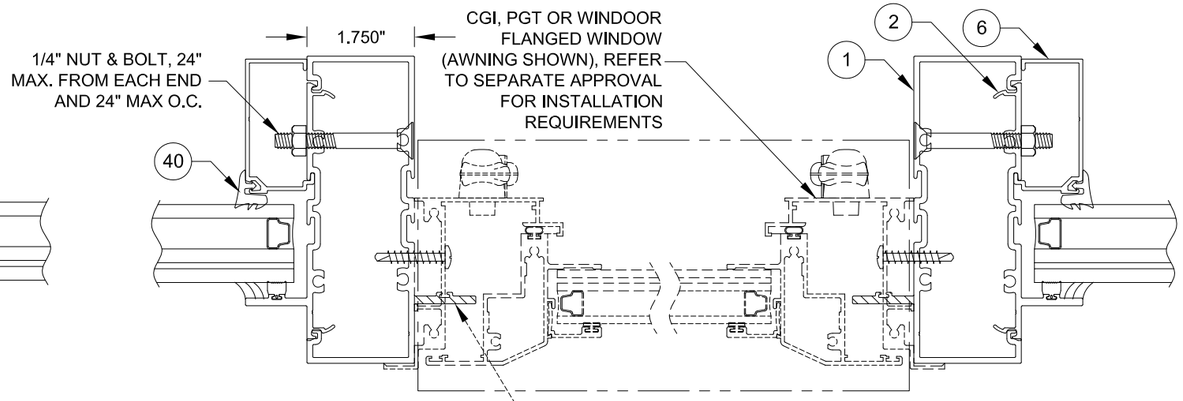
DETAIL N
WINDOW INSERT

DETAIL O
WINDOW INSERT



DETAIL L
PTAC INSERT

DETAIL M
PTAC INSERT



DETAIL P
WINDOW INSERT

DETAIL Q
WINDOW INSERT

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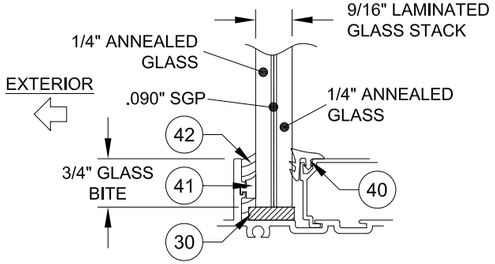
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A		J ROSOWSKI	03/23/16

Series	Desc.	Scale	Sheet	DWG No.	Rev.
SS-3500	STOREFRONT WINDOW SYSTEM DETAILS - LM	NTS	14 OF 16	MD-3500-2-LM	A

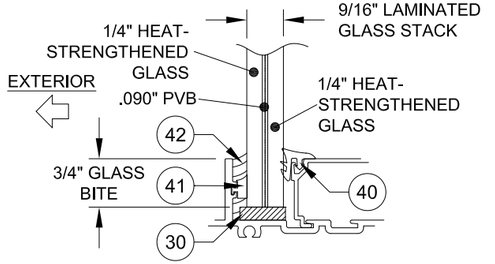
Title: INSERT DETAILS

ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
9/22/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER

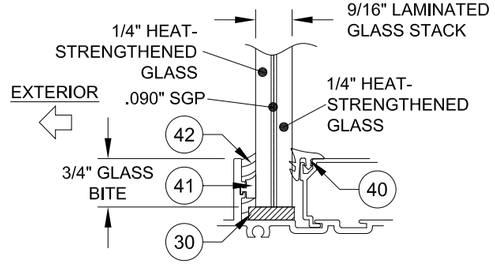
A. LYNN MILLER, P.E.
P.E.# 58705



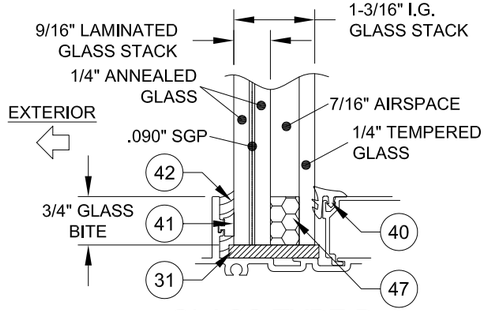
GLASS TYPE A



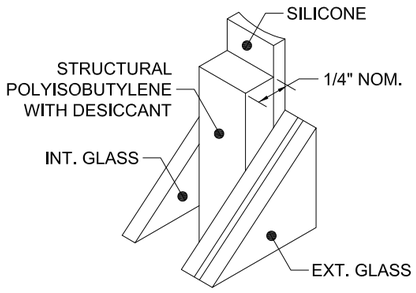
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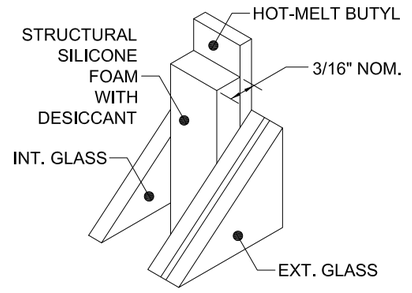
GLASS TYPE C



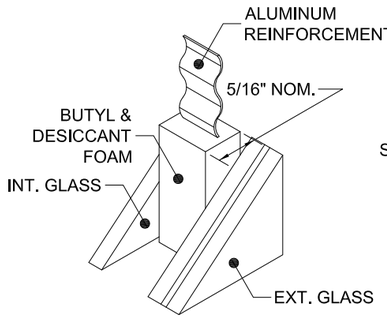
GLASS TYPE D



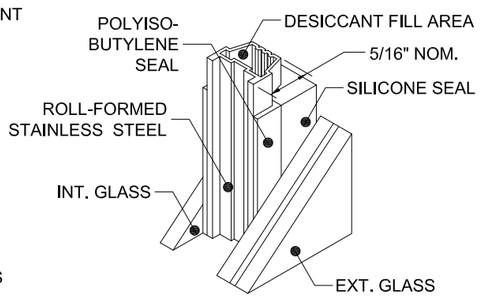
36 KODISPACE® 4SG TPS



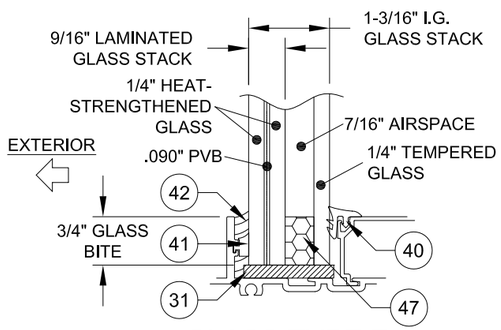
37 SUPER SPACER® NXT™



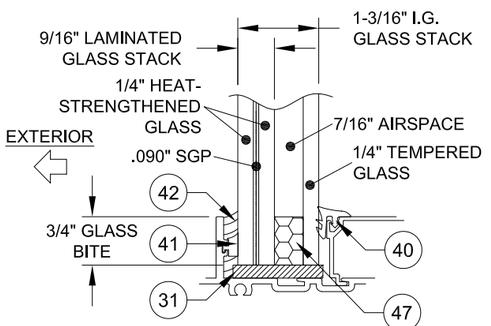
38 DURASEAL® SPACER



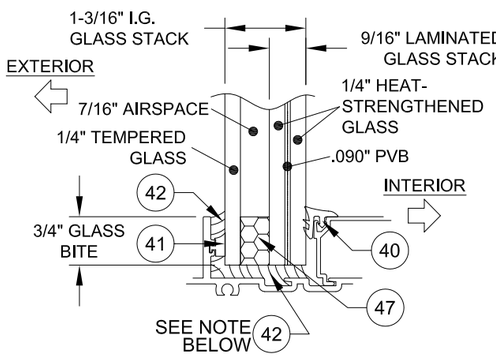
39 XL EDGE™ SPACER



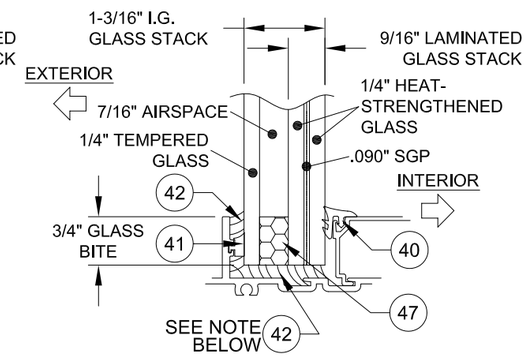
GLASS TYPE E



GLASS TYPE F



GLASS TYPE E1



GLASS TYPE F1

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

NOTES:
1. GLAZING FOR ALL GLASS TYPES MEETS ASTM E1300 FOR ALL APPROVED SIZES.

"PVB" = .090" TROSIFOL® PVB INTERLAYER BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.

Rev.	Description	Drawn By	Date
A	ADDED REVESE GLZ.	J ROSOWSKI	03/23/16

Commercial Architectural Products

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Title	Desc.	Series	Scale	Sheet
GLAZING DETAILS	STOREFRONT WINDOW SYSTEM DETAILS - LM	SS-3500	NTS	15 OF 16

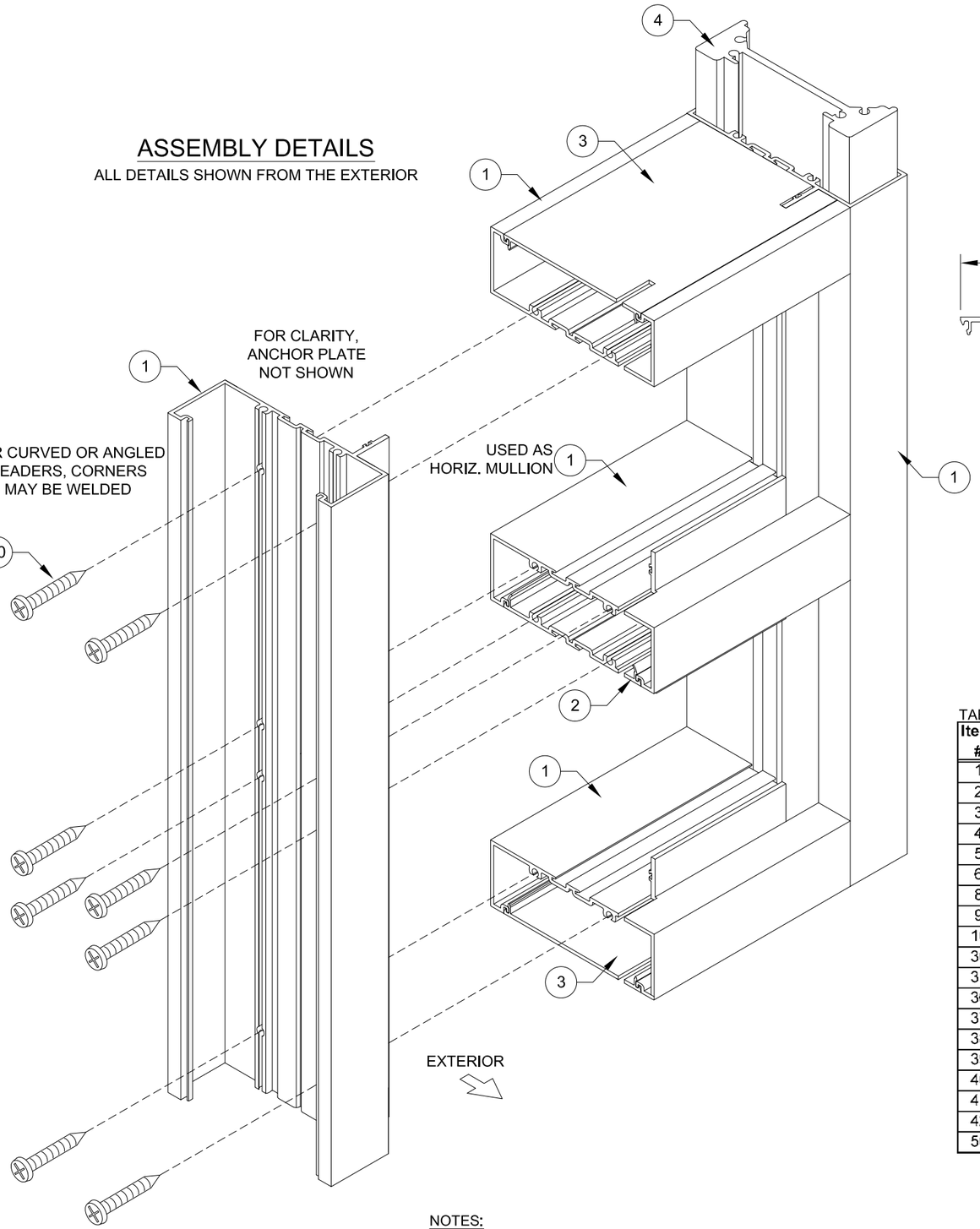
DWG No. MD-3500-2-LM

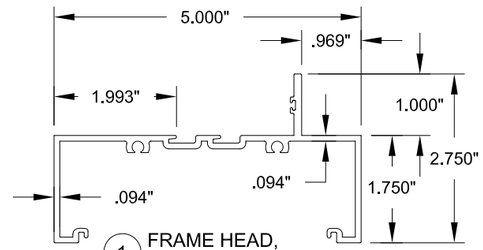
ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
9/22/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

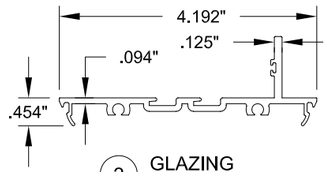
ASSEMBLY DETAILS

ALL DETAILS SHOWN FROM THE EXTERIOR

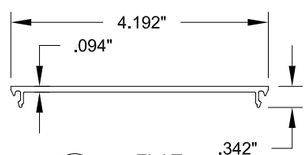




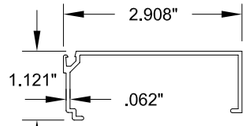
1 FRAME HEAD, SILL & JAMB



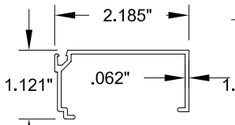
2 GLAZING ADAPTER



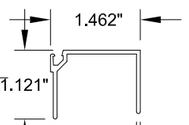
3 FLAT SNAP COVER



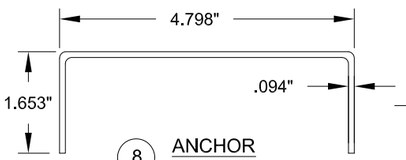
5 BEADING A



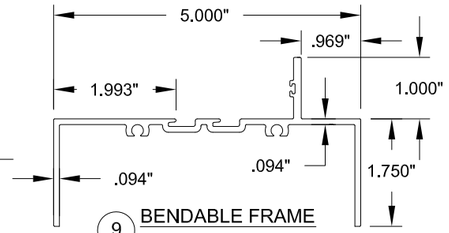
6 BEADING B



7 BENDABLE BEADING



8 ANCHOR CHANNEL



9 BENDABLE FRAME HEAD & JAMB

TABLE 10:

Item #	CGI Part #	Description	Material
1	CGIC-001	FRAME HEAD, JAMB & SILL	ALUM. (6063-T6)
2	CGIC-002	POCKET FILLER	ALUM. (6063-T6)
3	CGIC-003	FLAT SNAP COVER	ALUM. (6063-T6)
4	CGIC-008	ALUMINUM REINFORCEMENT	ALUM. (6063-T6)
5	CGIC-004	GLASS STOP "A"	ALUM. (6063-T6)
6	CGIC-005	GLASS STOP "B"	ALUM. (6063-T6)
8	MISC-087	ANCHOR CHANNEL	ALUM. (6063-T6)
9	ARCH-079	FRAME HEAD & JAMB (BENDABLE)	ALUM. (6063-T6)
10	CGIC-009	STEEL REINFORCEMENT	C. STEEL (A-36)
30	MISC-127	SETTING BLOCK 3/16" X 7/16"X 4", DURO=85 ±5	EPDM
31	MISC-128	IG SETTING BLOCK 3/16" X 1-3/32" X 4", DURO=85 ±5	EPDM
36		KOMMERLING KODISPACE 4SG TPS SPACER SYSTEM	SEE SHEET 15 FOR MATERIALS
37		QUANEX SUPER SPACER NXT WITH HOT MELT BUTYL	
38		QUANEX DURASEAL	
39		CARDINAL XL EDGE SPACER	
40	GSKT-006	GLAZING GASKET, GLASS STOP, DURO=65 ±5	EPDM
41	GSKT-007	GLAZING GASKET, GLAZING LEG, DURO=80 ±5	SANTOPRENE
42	SILC-131/132	SILICONE BACKBEADING: DOW791,983,995, GE7700	
50	SCRW-010	#12X1-1/2" HEX WASHER SCREW (ASSEMBLY)	STAINLESS STEEL

NOTES:
1. PARTS 11-29, 32-35, & 43-49 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.
2. SEE SHEET 11 FOR PARTS 4 & 10.

Rev.	Description	Drawn By	Date
A		J ROSOWSKI	03/23/16

Commercial Architectural Products

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Title: BOM & EXTRUSIONS

Desc.: STOREFRONT WINDOW SYSTEM DETAILS - LM

Series	Scale	Sheet	DWG No.
SS-3500	NTS	16 OF 16	MD-3500-2-LM

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