GENERAL NOTES: SS-3520 IMPACT-RESISTANT STOREFRONT WINDOW SYSTEM

FLORIDA PRODUCT APPROVAL # 26048

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: SEE GLAZING DETAILS ON SHEET 6 & GLAZING TYPES ON SHEET 8.
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

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.

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.
4. MID-PANEL ANCHOR QUANTITIES ARE GIVEN IN TABLES 7 & 8 AND HAVE BEEN CALCULATED FOR THE PRODUCT'S MAXIMUM DP.
5. IF THE STOREFRONT WINDOW IS ATTACHED TO ANOTHER WINDOW THROUGH A COMMON MULLION:
   A) DETERMINE THE MULLION DESIGN PRESSURE FROM TABLE 9.
   B) DETERMINE THE MAXIMUM DESIGN PRESSURE DUE TO MULLION CLUSTER ANCHORAGE FROM TABLES 3 OR 4 BASED ON YOUR SHIM SPACE, ANCHOR TYPE AND THE QUANTITY OF ANCHORS.
6. IF THE JAMBS ARE ANCHORED TO THE SUBSTRATE:
   A) THE SPACING IS GIVEN IN TABLES 5 & 6 AND HAVE BEEN CALCULATED FOR THE PRODUCT'S MAXIMUM DP.
   IF THE JAMBS ARE ANCHORLESS:
   A) DETERMINE THE MAXIMUM DESIGN PRESSURE DUE TO CLUSTER ANCHORAGE FROM TABLES 3 OR 4 BASED ON YOUR SHIM SPACE, ANCHOR TYPE AND THE QUANTITY OF ANCHORS.
   B) DETERMINE THE JAMB DESIGN PRESSURE FROM TABLE 9.
7. THE LOWEST DESIGN PRESSURE FROM ALL TABLES REFERENCED ABOVE, SHALL BE USED FOR THE ENTIRE ASSEMBLY.
8. IF COMBINED WITH A COMPATIBLE STOREFRONT ENTRANCE DOOR, THE LESSER DESIGN PRESSURE OF THE DOOR 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"
		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"
		Steel Stud, A653 (0.045" min. thickness)	3/8"	.045"	5/8"
B	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"
C	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"
D	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.

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

ALL ANCHOR HEAD TYPES ARE ALLOWED.

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

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Rev.	Description	Drawn By	Date
A	ADDED ULTRACON+ ANCHORS - JR, 09/15/20	JENS ROSOWSKI	01/02/18

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Title	Desc.	Series
NOTES & ANCHOR GROUPS	STOREFRONT WINDOW SYSTEM DETAILS - LM	SS-3520

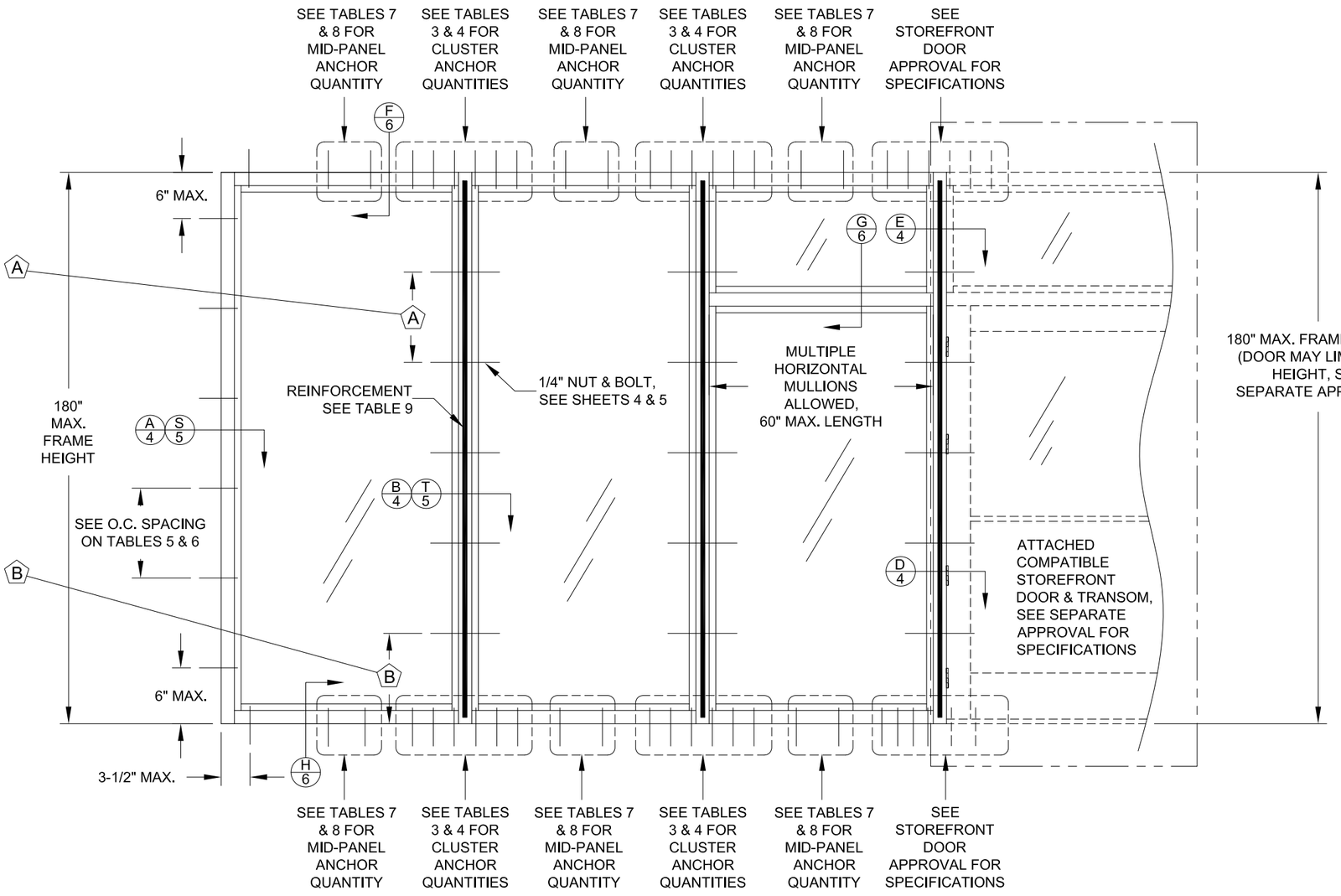
Scale	Sheet	DWG No.
NTS	1 OF 16	SS3520FPA-A

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

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

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



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

NOTES:
1. IF COMBINED WITH A COMPATIBLE STOREFRONT ENTRANCE DOOR, THE LESSER DESIGN PRESSURE VALUE OF THE DOOR OR THE WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.
2. SEE TABLES FOR MAXIMUM ALLOWED SIZES.
3. SEE SHEET 8 FOR DAYLIGHT OPENING (DLO) FORMULAS.

Rev. A

Rev. Description

Drawn By: JENS ROSOWSKI

Date: 01/02/18

DWG No.: SS3520FPA-A

Sheet: 2 OF 16

Scale: NTS

Series: SS-3520

Desc: STOREFRONT WINDOW SYSTEM DETAILS - LM

Title: ELEVATION A

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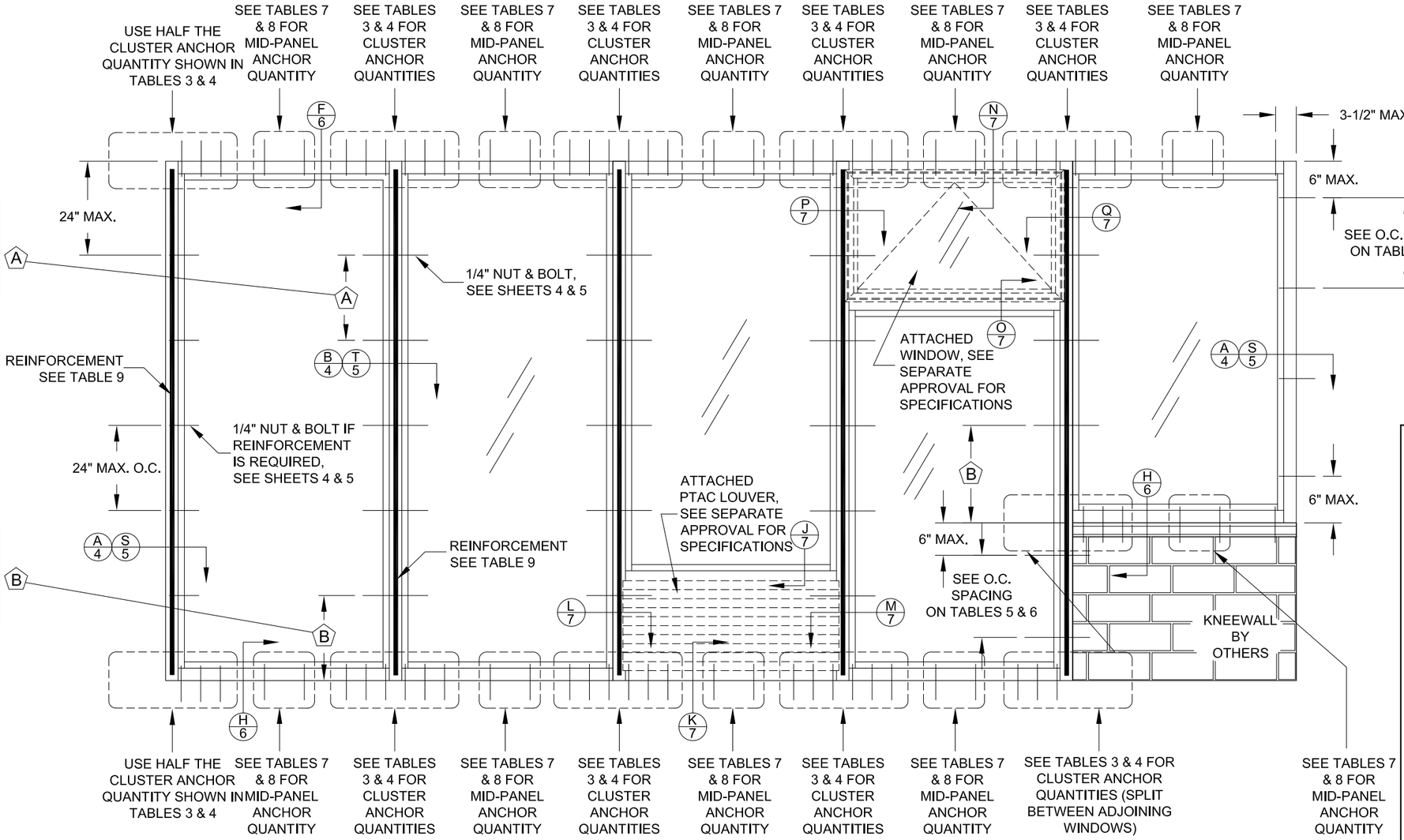
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24"	14-3/8"	24"

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



TYP. ELEVATION OF ANCHORLESS JAMB

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

NOTES:

1. IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (COMPATIBLE STOREFRONT ENTRANCE DOOR, PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.
2. SEE TABLES FOR MAXIMUM ALLOWED SIZES.
3. AWNING WINDOW INSERT SHOWN BUT MAY BE ANY APPROVED PGT, CGI OR WINDOOR WINDOW WITH A FLANGED FRAME.
4. SEE SHEET 8 FOR DAYLIGHT OPENING (DLO) FORMULAS.
5. MULTIPLE INSERTS WITHIN THE SAME STOREFRONT WINDOW ALLOWED.

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Title: ELEVATION B

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Series: SS-3520

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Sheet: 3 OF 16

DWG No.: SS3520FPA-A

Date: 03/23/16

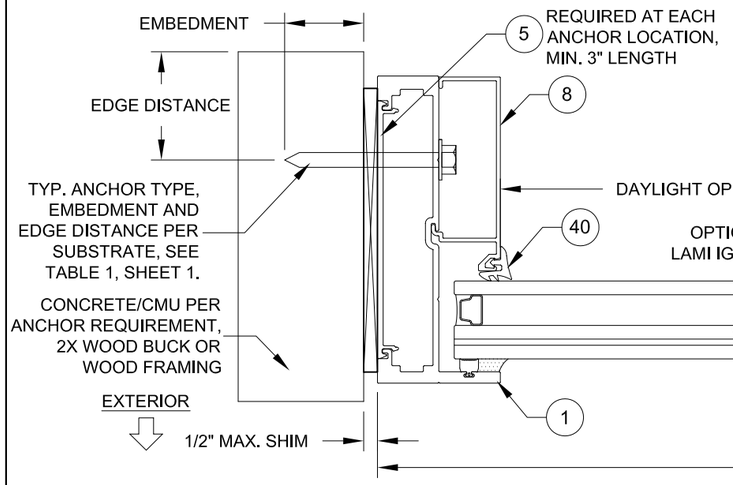
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Rev.	Description
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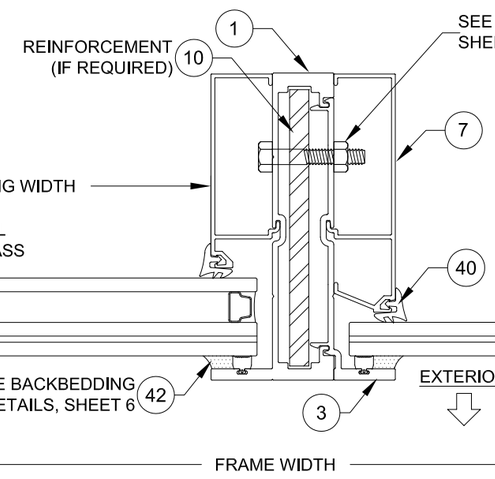
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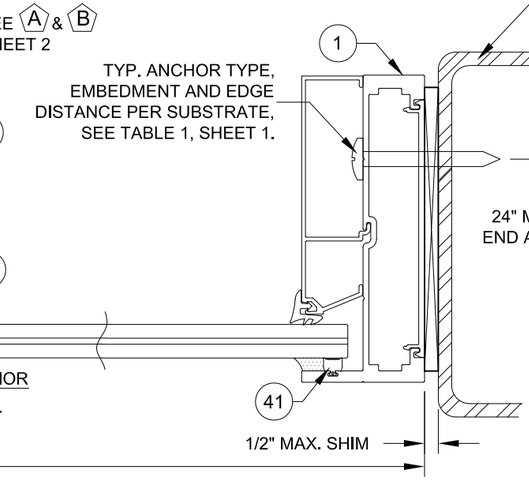
DETAIL A1
INTO MASONRY OR WOOD



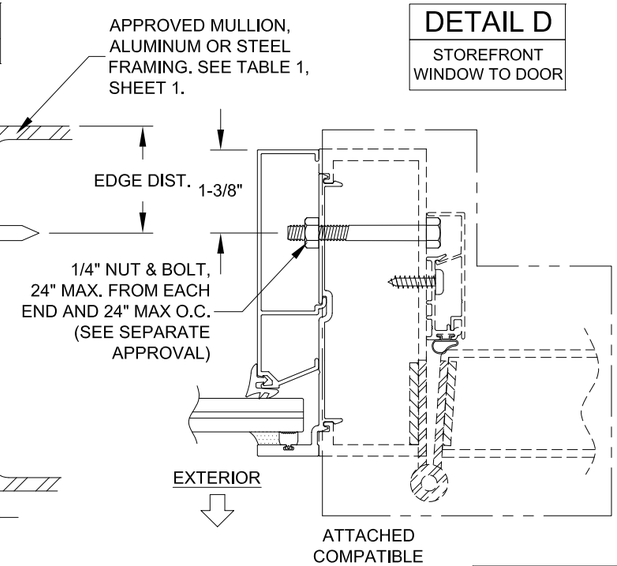
DETAIL B
MULLION



DETAIL A4
INTO METAL

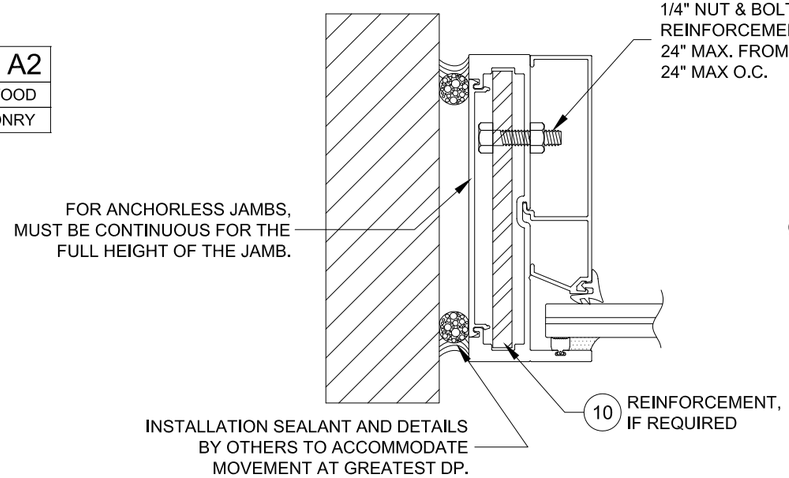


DETAIL D
STOREFRONT WINDOW TO DOOR

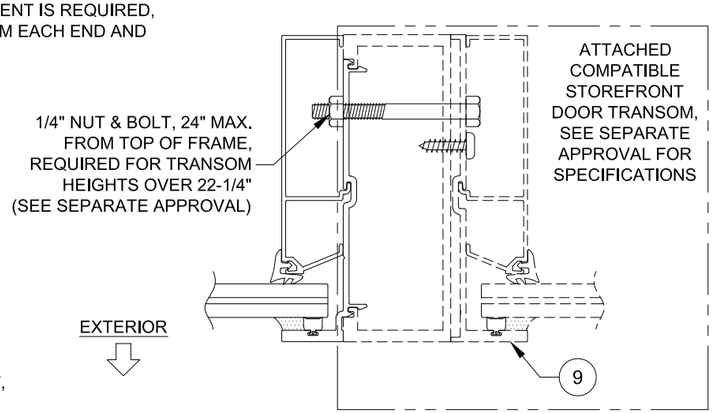


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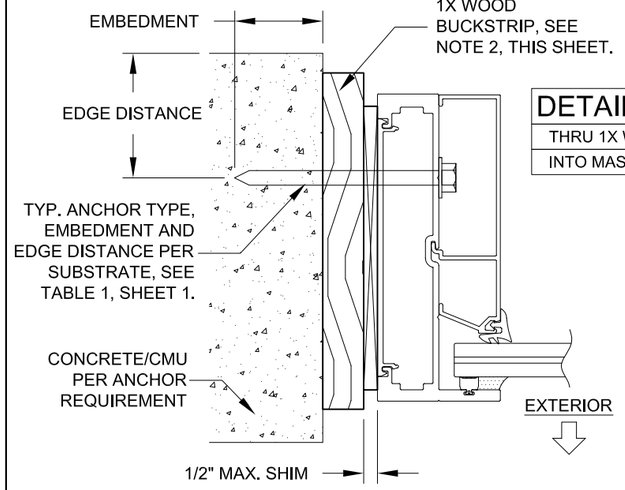
DETAIL A3
ANCHORLESS JAMB



DETAIL E
STOREFRONT WINDOW TO TRANSOM



DETAIL A2
THRU 1X WOOD INTO MASONRY



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.

Rev. A

Rev. Description

Drawn By: J ROSOWSKI

Date: 03/23/16

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Title: 5" HORIZ. CROSS SECTION

Desc.: STOREFRONT WINDOW SYSTEM DETAILS - LM

Series: SS-3520

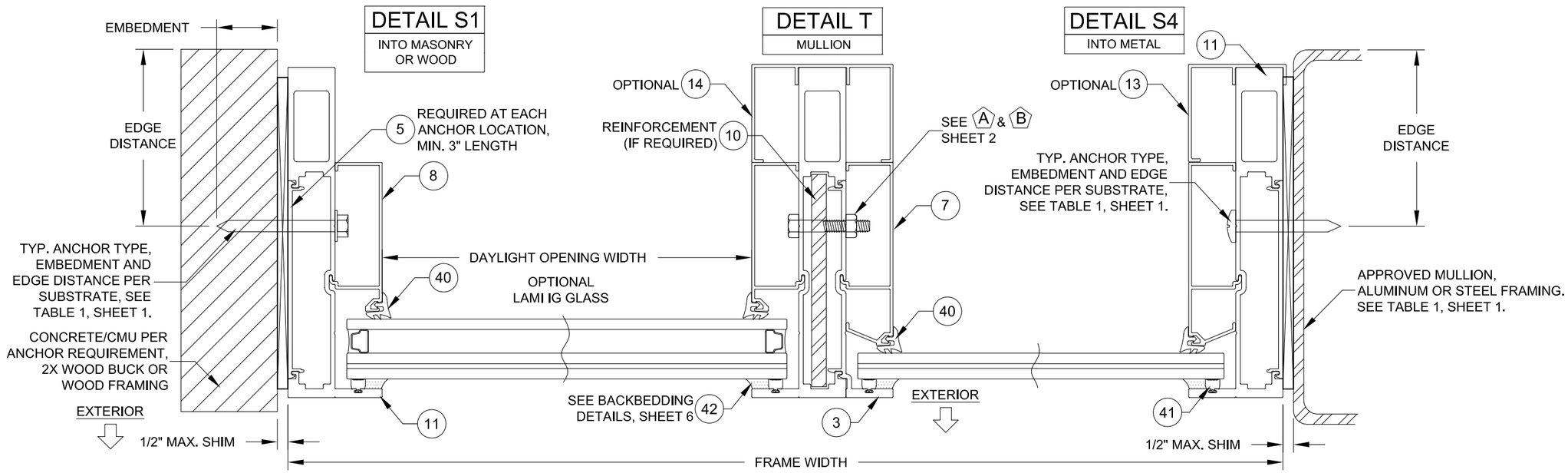
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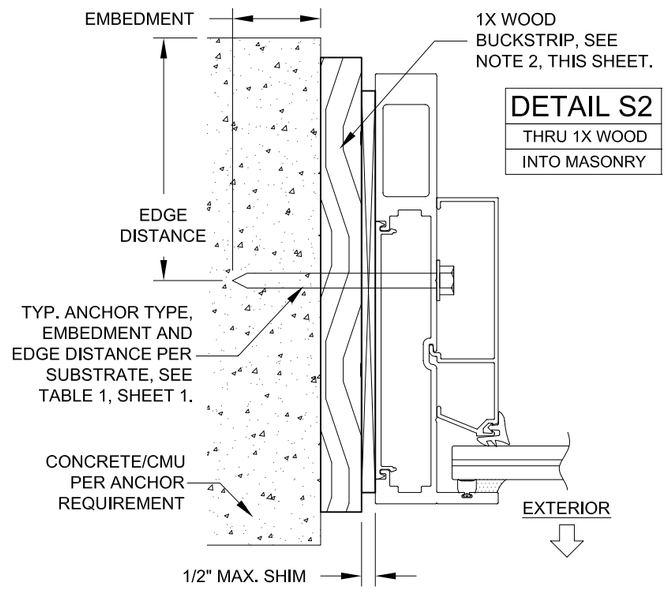
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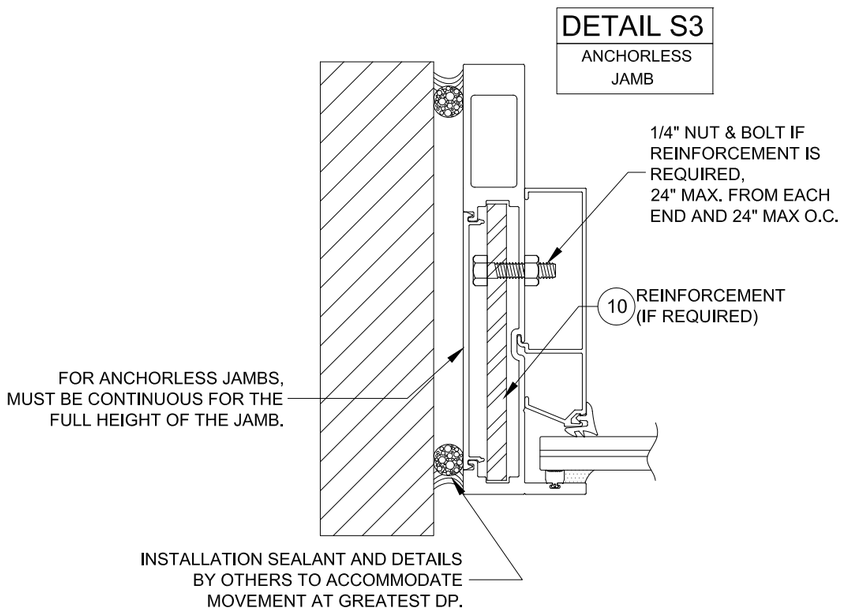
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2. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL. UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED 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.

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Series	Desc.	Scale	Sheet	DWG No.	Rev.
SS-3520	NTS	5 OF 16	SS3520FPA-A		A

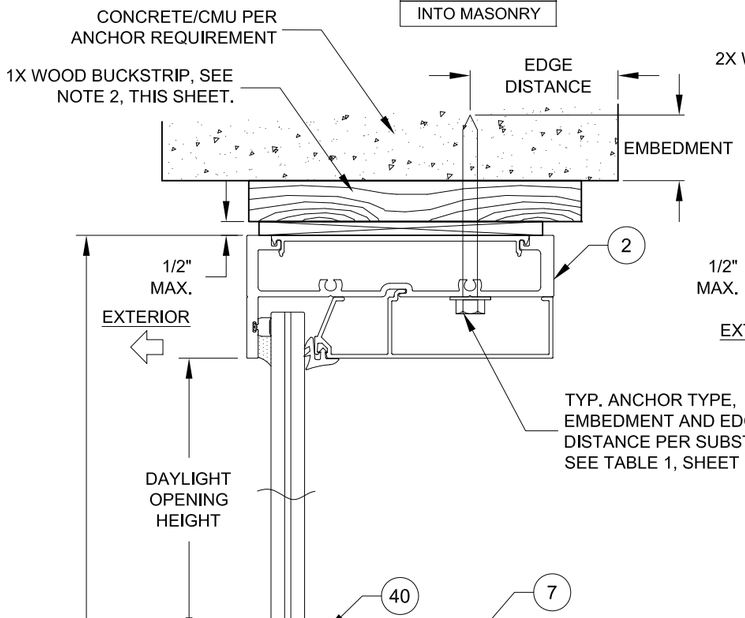
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STOREFRONT WINDOW SYSTEM DETAILS - LM

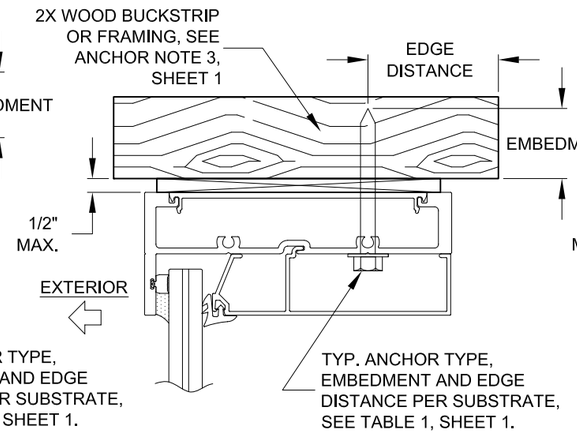
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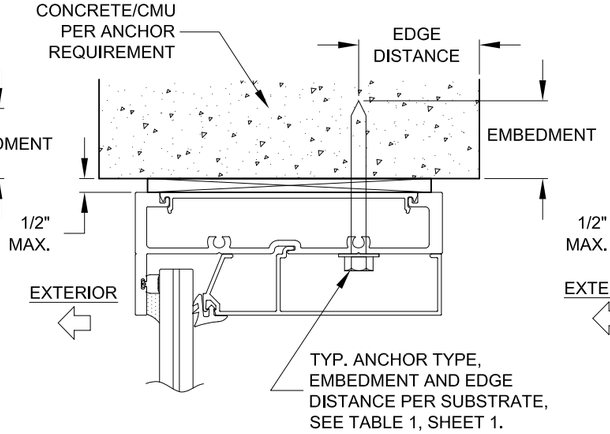
DETAIL F1
THRU 1X WOOD
INTO MASONRY



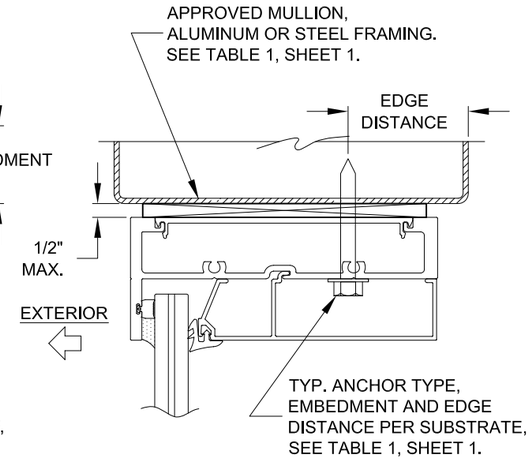
DETAIL F2
INTO WOOD



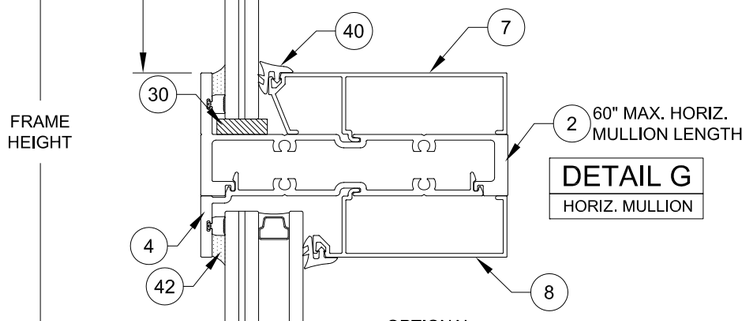
DETAIL F3
INTO MASONRY



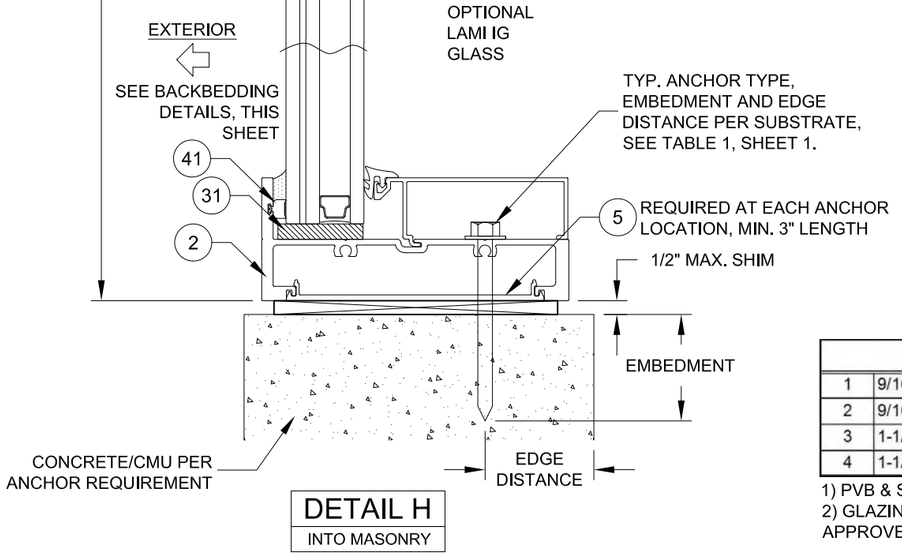
DETAIL F4
INTO METAL



DETAIL G
HORIZ. MULLION



DETAIL H
INTO MASONRY



INSTALLATION NOTES:

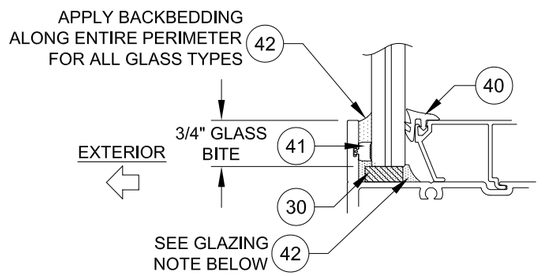
1. USE ONLY SUBSTRATE APPROPRIATE ANCHORS, FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW. ALL ANCHOR HEAD TYPES ARE ALLOWED.

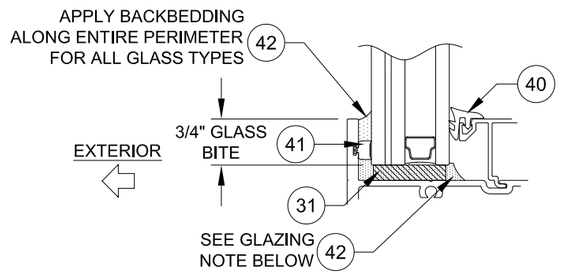
2. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL. UNIT MAY BE INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD 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.

Glass Types	
1	9/16" Lami.: 1/4" HS, .090" PVB, 1/4" HS
2	9/16" Lami.: 1/4" HS, .090" SG, 1/4" HS
3	1-1/4" Lami. IG: 1/4" HS, .090" PVB, 1/4" HS, 7/16" Airspace, 1/4" Temp.
4	1-1/4" Lami. IG: 1/4" HS, .090" SG, 1/4" HS, 7/16" Airspace, 1/4" Temp.

1) PVB & SG INTERLAYERS BY KURARAY AMERICA, INC.
2) GLAZING FOR ALL GLASS TYPES MEETS ASTM E1300 FOR ALL APPROVED SIZES.

GLAZING DETAILS





GLAZING NOTE:
FOR GLASS TYPES 1 & 3:
APPLY BACKBEDDING ALONG ENTIRE PERIMETER
FOR GLASS TYPES 2 & 4:
APPLY BACKBEDDING ALONG 20" FROM EACH CORNER

Commercial
Architectural Products
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

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

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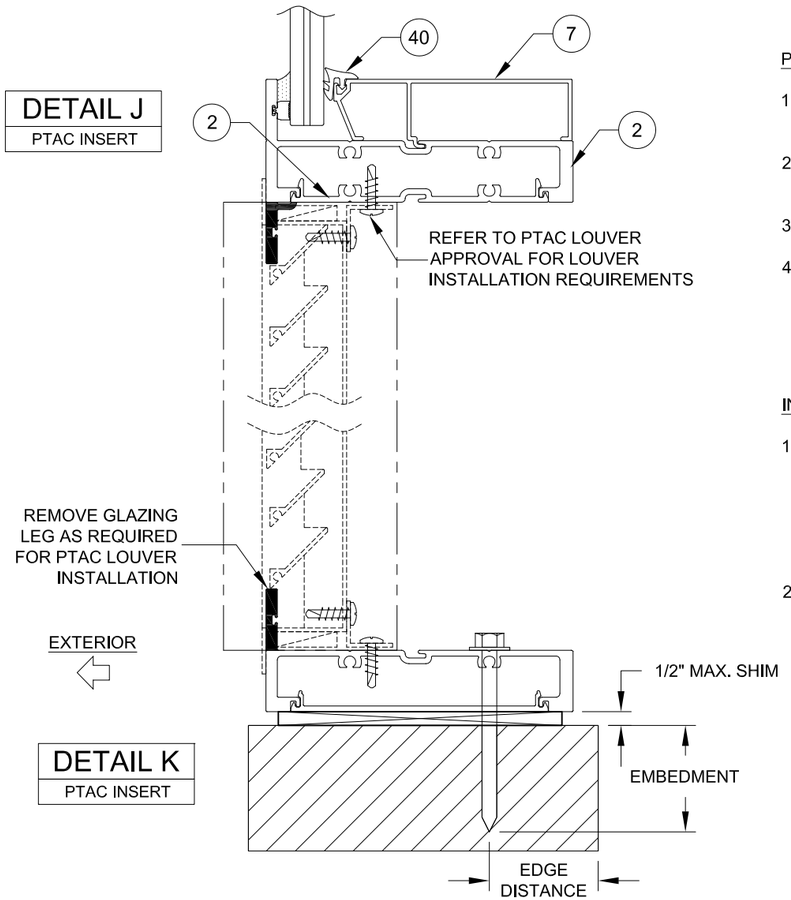
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
9/22/20

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

Rev.	Description	Drawn By	Date
A		JENS ROSOWSKI	01/02/18

Series	Desc.	Scale	Sheet	DWG No.
SS-3520	STOREFRONT WINDOW SYSTEM DETAILS - LM	NTS	6 OF 16	SS3520FPA-A

Title: VERTICAL CROSS SECTION



DETAIL J
PTAC INSERT

DETAIL K
PTAC INSERT

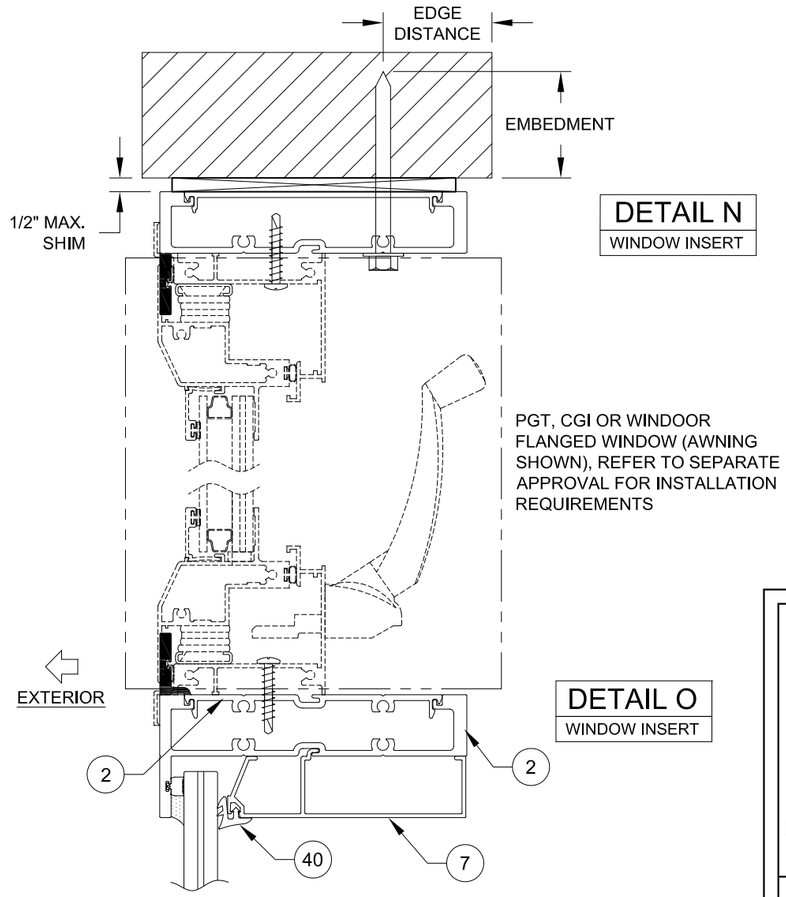
PTAC LOUVER & WINDOW INSERT NOTES:

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

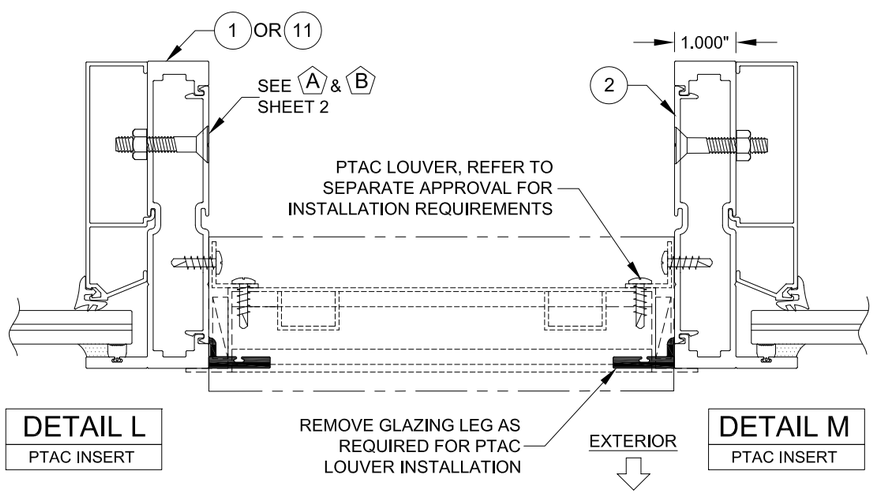
1. USE ONLY SUBSTRATE APPROPRIATE ANCHORS, FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW. ALL ANCHOR HEAD TYPES ARE ALLOWED.

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.



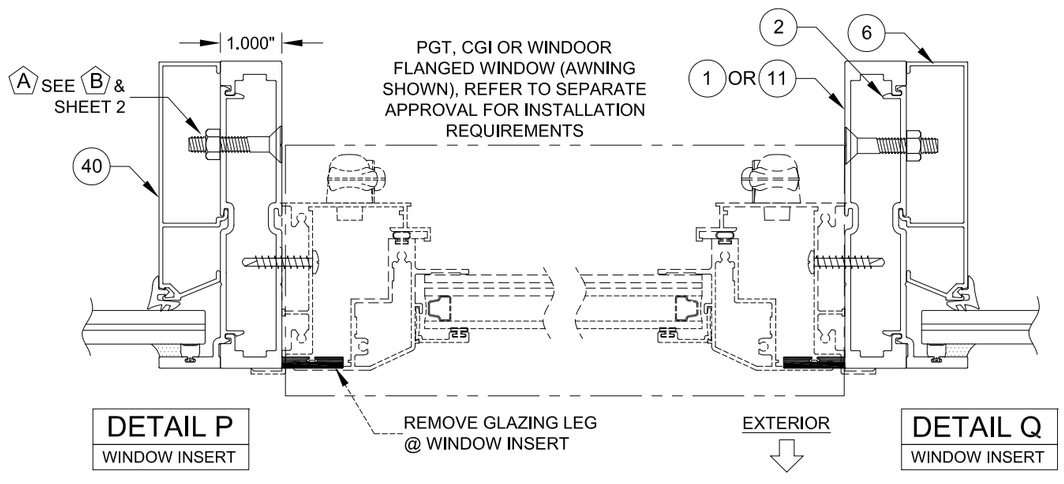
DETAIL N
WINDOW INSERT

DETAIL O
WINDOW INSERT



DETAIL L
PTAC INSERT

DETAIL M
PTAC INSERT



DETAIL P
WINDOW INSERT

DETAIL Q
WINDOW INSERT

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

SYSTEM DETAILS - LM

DWG No. SS3520FPA-A

Sheet 7 OF 16

Scale NTS

Series SS-3520

Desc. STOREFRONT WINDOW SYSTEM

Title INSERT DETAILS

CGI Commercial
Architectural Products

CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

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

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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

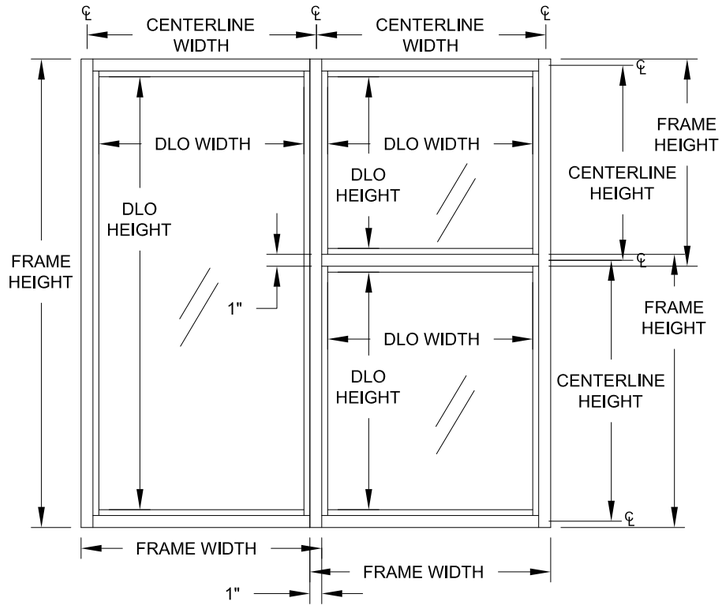
TABLE 2:

Max. DP due to Glass Limitations, psf			
Centerline Width	Frame Height	Glass Types 1 & 3	Glass Types 2 & 4
24"	48"	+70/-80	+90/-120
30"		+70/-80	+90/-120
36"		+70/-80	+90/-120
42"		+70/-80	+90/-120
48"		+70/-80	+90/-120
54"		+70/-80	+90/-120
60"		+70/-80	+90/-120
70"		+70/-80	+90/-120
72"		+70/-80	+90/-120
84"		+70/-80	+90/-120
90"		+70/-80	+90/-120
92"		+70/-80	+90/-120
96"		+70/-80	+90/-120
102"			+90/-120
108"			+90/-120
120"			+90/-120
132"			+90/-100
144"			+90/-100
168"			+60/-60.7
180"			+60/-60
24"	60"	+70/-80	+90/-120
30"		+70/-80	+90/-120
36"		+70/-80	+90/-120
42"		+70/-80	+90/-120
48"		+70/-80	+90/-120
54"		+70/-80	+90/-120
60"		+70/-80	+90/-120
70"		+70/-80	+90/-120
72"		+70/-80	+90/-120
84"			+90/-119.5
90"			+90/-115.2
92"			+90/-114
96"			+90/-111.7
102"			+90/-100
108"			+90/-100
120"			+90/-100
132"			+70/-70
144"			+70/-70
24"	72"	+70/-80	+90/-120
30"		+70/-80	+90/-120
36"		+70/-80	+90/-120
42"		+70/-80	+90/-120
48"		+70/-80	+90/-120
54"		+70/-80	+90/-120
60"		+70/-80	+90/-120
70"			+90/-120
72"			+90/-120
84"			+90/-100
90"			+90/-100
92"			+90/-100
96"			+90/-100
102"			+70/-70
108"			+69.3/-69.3
120"			+66/-66

Max. DP due to Glass Limitations, psf			
Centerline Width	Frame Height	Glass Types 1 & 3	Glass Types 2 & 4
24"	78"	+70/-80	+90/-120
30"		+70/-80	+90/-120
36"		+70/-80	+90/-120
42"		+70/-80	+90/-120
48"		+70/-80	+90/-120
54"		+70/-80	+90/-120
60"		+68.6/-78.5	+90/-120
70"			+90/-119.4
72"			+90/-118.9
84"			+90/-100
90"			+90/-100
92"			+90/-100
96"			+70/-70
102"			+69/-69
108"			+66.8/-66.8
24"	84"	+70/-80	+90/-120
30"		+70/-80	+90/-120
36"		+70/-80	+90/-120
42"		+70/-80	+90/-120
48"		+70/-80	+90/-120
54"		+69.2/-79.1	+90/-120
60"			+90/-119.5
70"			+90/-100
72"			+90/-100
84"			+90/-100
90"			+70/-70
92"			+70/-70
96"			+70/-70
102"			+67.3/-67.3
24"	90"	+70/-80	+90/-120
30"		+70/-80	+90/-120
36"		+70/-80	+90/-120
42"		+70/-80	+90/-120
48"		+70/-80	+90/-120
54"			+90/-120
60"			+90/-115.2
70"			+90/-100
72"			+90/-100
84"			+70/-70
90"			+70/-70
92"			+70/-70
96"			+69.6/-69.6
24"	97-3/4"	+70/-80	+90/-120
30"		+70/-80	+90/-120
36"		+70/-80	+90/-120
42"		+70/-80	+90/-120
48"		+70/-80	+90/-120
54"			+90/-117.9
60"			+90/-100
70"			+90/-100
72"			+89/-99
84"			+69.4/-69.4
24"	102"	+70/-80	+90/-120
30"		+70/-80	+90/-120
36"		+70/-80	+90/-120
42"		+70/-80	+90/-120
48"			+90/-120
54"			+90/-116.1
60"			+90/-100
70"			+88.1/-97.9
72"			+70/-70
84"			+67.3/-67.3

Max. DP due to Glass Limitations, psf			
Centerline Width	Frame Height	Glass Types 1 & 3	Glass Types 2 & 4
24"	108"	+70/-80	+90/-120
30"		+70/-80	+90/-120
36"		+70/-80	+90/-120
42"		+70/-80	+90/-120
48"			+90/-120
54"			+90/-100
60"			+90/-100
70"			+70/-70
72"			+69.3/-69.3
24"	114"	+70/-80	+90/-120
30"		+70/-80	+90/-120
36"		+70/-80	+90/-120
42"			+90/-120
48"			+90/-120
54"			+90/-100
60"			+90/-100
70"			+68.6/-68.6
72"			+67.5/-67.5
24"	120"	+70/-80	+90/-120
30"		+70/-80	+90/-120
36"		+70/-80	+90/-120
42"			+90/-120
48"			+90/-120
54"			+90/-100
60"			+90/-100
70"			+67.1/-67.1
72"			+66/-66
24"	126"	+70/-80	+90/-120
30"		+70/-80	+90/-120
36"		+70/-80	+90/-120
42"			+90/-120
48"			+90/-100
54"			+90/-100
60"			+70/-70
24"	132"	+70/-80	+90/-120
30"		+70/-80	+90/-120
36"			+90/-120
42"			+90/-120
48"			+90/-100
54"			+90/-100
60"			+70/-70
24"	138"	+70/-80	+90/-120
30"		+70/-80	+90/-120
36"			+90/-120
42"			+90/-100
48"			+90/-100
54"			+65.6/-65.6
60"			+70/-70
24"	144"	+70/-80	+90/-120
30"		+70/-80	+90/-120
36"			+90/-120
42"			+90/-100
48"			+90/-100
54"			+70/-70
60"			+70/-70
24"	168"		+60/-75
30"			+60/-75
36"			+60/-75
42"			+60/-67.9
48"			+60/-60.7
24"	180"		+60/-75
30"			+60/-75
36"			+60/-75
42"			+60/-67.3
48"			+60/-60

1. IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (COMPATIBLE STOREFRONT ENTRANCE DOOR, PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.
2. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.

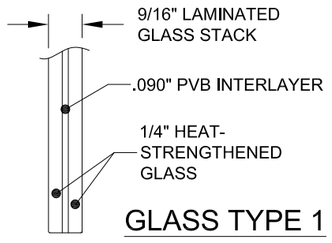


DLO (DAYLIGHT OPENING) FORMULAS:

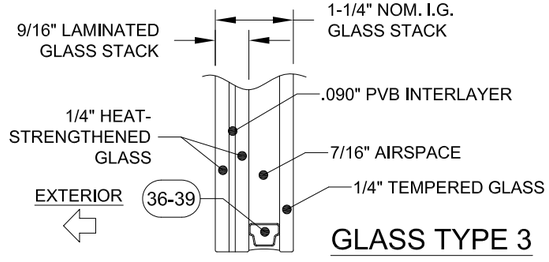
FRAME WIDTH - 4" = DLO WIDTH
FRAME HEIGHT - 4" = DLO HEIGHT

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

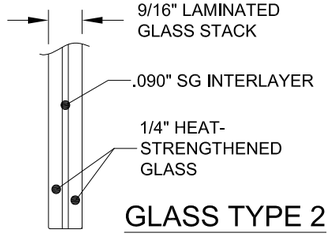
CENTERLINE WIDTH - 1-1/2" = GLASS WIDTH
CENTERLINE HEIGHT - 1-1/2" = GLASS HEIGHT
FRAME WIDTH - 2-1/2" = GLASS WIDTH
FRAME HEIGHT - 2-1/2" = GLASS HEIGHT



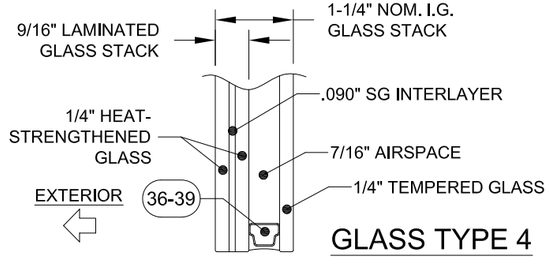
GLASS TYPE 1



GLASS TYPE 3



GLASS TYPE 2



GLASS TYPE 4

Glass Types	
1	9/16" Lami.: 1/4" HS, .090" PVB, 1/4" HS
2	9/16" Lami.: 1/4" HS, .090" SG, 1/4" HS
3	1-1/4" Lami. IG: 1/4" HS, .090" PVB, 1/4" HS, 7/16" Airspace, 1/4" Temp.
4	1-1/4" Lami. IG: 1/4" HS, .090" SG, 1/4" HS, 7/16" Airspace, 1/4" Temp.

1) PVB & SG INTERLAYERS BY KURARAY AMERICA, INC.
2) GLAZING FOR ALL GLASS TYPES MEETS ASTM E1300 FOR ALL APPROVED SIZES.

Rev.	Rev. Description	Drawn By	Date
A		JENS ROSOWSKI	01/02/18

Commercial Architectural Products
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
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(305) 593-6590

PREPARED BY: A. LYNN MILLER
1070 TECHNOLOGY DRIVE
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Series	Desc:	Scale	Sheet	DWG No.
SS-3520	NTS	8 OF 16	SS3520FPA-A	

Title: TABLE 2 & GLASS TYPES

STOREFRONT WINDOW SYSTEM DETAILS - 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

TABLE 3:

Mullion Anchor Cluster DP at Heac/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	
		4	6	4	6	4	6	4	6
24"	48"	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
36"		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
48"		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
60"		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
72"		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
90"		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
96"		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
108"		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
132"		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
168"		75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
180"		75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
24"	60"	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
36"		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
48"		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
60"		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
72"		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
90"		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
96"		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
108"		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
132"		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
24"	72"	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
36"		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
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		120.0	120.0	118.5	120.0	120.0	120.0	120.0	120.0
60"		120.0	120.0	114.3	120.0	120.0	120.0	120.0	120.0
70"		120.0	120.0	111.2	120.0	120.0	120.0	120.0	120.0
72"		120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0
84"		120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0
90"		120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0
92"		120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0
96"		120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0
102"		120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0
108"		120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0
120"		120.0	120.0	111.1	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
30"		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
42"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0
54"		120.0	120.0	104.6	120.0	120.0	120.0	120.0	120.0
60"		118.1	120.0	100.0	120.0	120.0	120.0	120.0	120.0
70"		113.0	120.0	95.7	120.0	120.0	120.0	120.0	120.0
72"		112.5	120.0	95.2	120.0	120.0	120.0	120.0	120.0
84"		111.8	120.0	94.7	120.0	120.0	120.0	120.0	120.0
90"		111.8	120.0	94.7	120.0	120.0	120.0	120.0	120.0
92"		111.8	120.0	94.7	120.0	120.0	120.0	120.0	120.0
96"		111.8	120.0	94.7	120.0	120.0	120.0	120.0	120.0
102"		111.8	120.0	94.7	120.0	120.0	120.0	120.0	120.0
108"		111.8	120.0	94.7	120.0	120.0	120.0	120.0	120.0

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

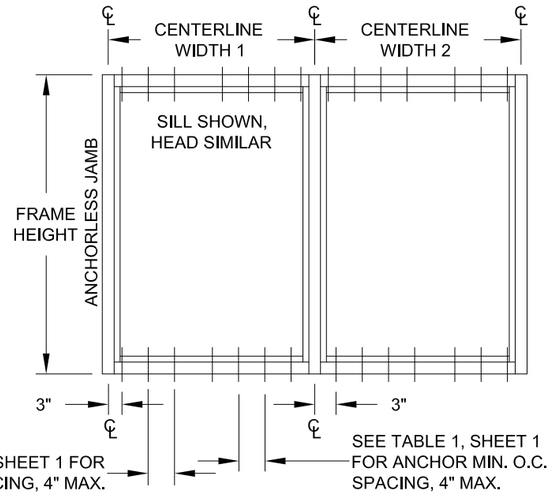
Average Centerline Width	Frame Height	Group "A" Anchor Quantity			Group "B" Anchor Quantity			Group "C" Anchor Quantity			Group "D" Anchor Quantity	
		4	6	8	4	6	8	4	6	8	4	6
24"	84"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		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	108.8	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		118.1	120.0	120.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		110.5	120.0	120.0	93.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		105.0	120.0	120.0	88.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		99.2	120.0	120.0	84.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
72"		98.4	120.0	120.0	83.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
84"		96.4	120.0	120.0	81.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
90"		96.4	120.0	120.0	81.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
92"		96.4	120.0	120.0	81.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
96"		96.4	120.0	120.0	81.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
102"		96.4	120.0	120.0	81.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
24"	90"	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
36"		120.0	120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		117.4	120.0	120.0	99.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		107.4	120.0	120.0	90.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		100.0	120.0	120.0	84.7	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		94.5	120.0	120.0	80.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		88.4	120.0	120.0	74.8	112.2	120.0	112.2	120.0	120.0	120.0	120.0
72"		87.5	120.0	120.0	74.1	111.1	120.0	111.1	120.0	120.0	120.0	120.0
84"		84.4	120.0	120.0	71.4	107.1	120.0	107.1	120.0	120.0	120.0	120.0
90"		84.0	120.0	120.0	71.1	106.7	120.0	106.7	120.0	120.0	120.0	120.0
92"		84.0	120.0	120.0	71.1	106.7	120.0	106.7	120.0	120.0	120.0	120.0
96"		84.0	120.0	120.0	71.1	106.7	120.0	106.7	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
30"		120.0	120.0	120.0	116.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		118.5	120.0	120.0	100.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		105.5	120.0	120.0	89.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		96.1	120.0	120.0	81.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		89.0	120.0	120.0	75.4	113.1	120.0	113.1	120.0	120.0	120.0	120.0
60"		83.7	120.0	120.0	70.8	106.3	120.0	106.3	120.0	120.0	120.0	120.0
70"		77.4	116.2	120.0	65.6	98.3	120.0	98.3	120.0	120.0	120.0	120.0
72"		76.5	114.8	120.0	64.8	97.2	120.0	97.2	120.0	120.0	120.0	120.0
84"		72.6	109.0	120.0	61.5	92.2	120.0	92.2	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
30"		120.0	120.0	120.0	110.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		112.5	120.0	120.0	95.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		100.0	120.0	120.0	84.7	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		90.9	120.0	120.0	76.9	115.4	120.0	115.4	120.0	120.0	120.0	120.0
54"		84.0	120.0	120.0	71.1	106.7	120.0	106.7	120.0	120.0	120.0	120.0
60"		78.7	118.1	120.0	66.7	100.0	120.0	100.0	120.0	120.0	120.0	120.0
70"		72.5	108.8	120.0	61.4	92.1	120.0	92.1	120.0	120.0	120.0	120.0
72"		71.6	107.4	120.0	60.6	90.9	120.0	90.9	120.0	120.0	120.0	120.0
84"		67.5	101.2	120.0	57.1	85.7	114.3	85.7	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
30"		120.0	120.0	120.0	103.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		105.0	120.0	120.0	88.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		93.1	120.0	120.0	78.8	118.2	120.0	118.2	120.0	120.0	120.0	120.0
48"		84.4	120.0	120.0	71.4	107.1	120.0	107.1	120.0	120.0	120.0	120.0
54"		77.8	116.7	120.0	65.8	98.8	120.0	98.8	120.0	120.0	120.0	120.0
60"		72.7	109.0	120.0	61.5	92.3	120.0	92.3	120.0	120.0	120.0	120.0
70"		66.6	99.9	120.0	56.4	84.5	112.7	84.5	120.0	120.0	120.0	120.0
72"		65.6	98.4	120.0	55.6	83.3	111.1	83.3	120.0	120.0	120.0	120.0
24"	114"	120.0	120.0	120.0	117.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		114.5	120.0	120.0	97.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		98.4	120.0	120.0	83.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		87.1	120.0	120.0	73.7	110.6	120.0	110.6	120.0	120.0	120.0	120.0
48"		78.7	118.1	120.0	66.7	100.0	120.0	100.0	120.0	120.0	120.0	120.0
54"		72.4	108.6	120.0	61.3	92.0	120.0	92.0	120.0	120.0	120.0	120.0
60"		67.5	101.2	120.0	57.1	85.7	114.3	85.7	120.0	120.0	120.0	120.0
70"		61.5	92.3	120.0	52.1	78.1	104.2	78.1	117.2	120.0	120.0	120.0
72"		60.6	90.9	120.0	51.3	76.9	102.6	76.9	115.4	120.0	120.0	120.0

FOR ANCHORLESS JAMBS
USE ONLY HALF OF THE ANCHORS SPECIFIED IN TABLE 3, AND:

$$\text{AVERAGE CENTERLINE WIDTH} = \text{CENTERLINE WIDTH 1}$$

FOR INTERIOR MULLION CLUSTERS
USE THE QUANTITY OF ANCHORS SPECIFIED IN TABLE 3, AND:

$$\text{AVERAGE CENTERLINE WIDTH} = \frac{\text{CENTERLINE WIDTH 1} + \text{CENTERLINE WIDTH 2}}{2}$$



Mullion Anchor Cluster DP 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	
		4	6	8	4	6	8	4	6	8	4	6
24"	120"	120.0	120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		108.0	120.0	120.0	91.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		92.6	120.0	120.0	78.4	117.6	120.0	117.6	120.0	120.0	120.0	120.0
42"		81.8	120.0	120.0	69.3	103.9	120.0	103.9	120.0	120.0	120.0	120.0
48"		73.8	110.7	120.0	62.5	93.8	120.0	93.8	120.0	120.0	120.0	120.0
54"		67.7	101.6	120.0	57.3	86.0	114.7	86.0	120.0	120.0	120.0	120.0
60"		63.0	94.5	120.0	53.3	80.0	106.7	80.0	120.0	120.0	120.0	120.0
70"		57.2	85.8	114.3	48.4	72.6	96.8	72.6	108.9	120.0	120.0	120.0
72"		56.2	84.4	112.5	47.6	71.4	95.2	71.4	107.1	120.0	120.0	120.0
24"	126"	120.0	120.0	120.0	105.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		102.2	120.0	120.0	86.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		87.5	120.0	120.0	74.1	111.1	120.0	111.1	120.0	120.0	120.0	120.0
42"		77.1	115.7	120.0	65.3	98.0	120.0	98.0	120.0	120.0	120.0	120.0
48"		69.5	104.2	120.0	58.8	88.2	117.6	88.2	120.0	120.0	120.0	120.0
54"		63.6	95.5	120.0	53.9	80.8	107.7	80.8	120.0	120.0	120.0	120.0
60"		59.1	88.6	118.1	50.0	75.0	100.0	75.0	112.5	120.0	120.0	120.0
24"	132"	118.1	120.0	120.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		96.9	120.0	120.0	82.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		82.9	120.0	120.0	70.2	105.3	120.0	105.3	120.0	120.0	120.0	120.0
42"		73.0	109.5	120.0	61.8	92.7	120.0	92.7	120.0	120.0	120.0	120.0
48"		65.6	98.4	120.0	55.6	83.3	111.1	83.3	120.0	120.0	120.0	120.0
54"		60.0	90.0	120.0	50.8	76.2	101.6	76.2	114.3	120.0	120.0	120.0
60"		55.6	83.4	111.2	47.1	70.6	94.1	70.6	105.9	120.0	120.0	120.0
24"	138"	112.5	120.0	120.0	95.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		92.2	120.0	120.0	78.0	117.1	120.0	117.1	120.0	120.0	120.0	120.0
36"		78.7	118.1	120.0	66.7	100.0	120.0	100.0	120.0	120.0	120.0	120.0
42"		69.2	103.8	120.0	58.6	87.9	117.2	87.9	120.0	120.0	120.0	120.0
48"		62.2	93.3	120.0	52.6	78.9	105.3	78.9	118.4	120.0	120.0	120.0
54"		56.8	85.1	113.5	48.0	72.1	96.1	72.1	108.1	120.0	120.0	120.0
60"		52.5	78.7	105.0	44.4	66.7	88.9	66.7	100.0	120.0	120.0	120.0
24"	144"	107.4	120.0	120.0	90.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		87.9	120.0	120.0	74.4	111.6	120.0	111.6	120.0	120.0	120.0	120.0
36"		75.0	112.5	120.0	63.5	95.2	120.0	95.2	120.0	120.0	120.0	120.0
42"		65.9	98.8	120.0	55.7	83.6	111.5	83.6	120.0	120.0	120.0	120.0
48"		59.1	88.6	118.1	50.0	75.0	100.0	75.0	112.5	120.0	120.0	120.0
54"		53.8	80.8	107.7	45.6	68.4	91.2	68.4	102.6	120.0	120.0	120.0
60"		49.7	74.6	99.5	42.1	63.2	84.2	63.2	94.7	120.0	116.4	120.0
24"	168"	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
30"		74.1	75.0	75.0	62.7	75.0	75.0	75.0	75.0	75.0	75.0	75.0
36"		63.0	75.0	75.0	53.3	75.0	75.0	75.0	75.0	75.0	75.0	75.0
42"		55.1	75.0	75.0	46.6	70.0	75.0	70.0	75.0	75.0	75.0	75.0
48"		49.2	73.8	75.0	41.7	62.5	75.0	62.5	75.0	75.0	75.0	75.0
24"	180"	75.0	75.0	75.0	71.4	75.0	75.0	75.0	75.0	75.0	75.0	75.0
30"		68.7	75.0	75.0	58.2	75.0	75.0	75.0	75.0	75.0	75.0	75.0
36"		58.3	75.0	75.0	49.4	74.1	75.0	74.1	75.0	75.0	75.0	75.0
42"		50.9	75.0	75.0	43.1	64.7	75.0	64.7	75.0	75.0	75.0	75.0
48"		45.4	68.1	75.0	38.5	57.7	75.0	57.7	75.0	75.0	75.0	75.0

1. IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (COMPATIBLE STOREFRONT ENTRANCE DOOR, PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.
2. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.

Rev.	Description	Date	Drawn By
A	TABLE - JR, 09/15/20		
	CORRECTED SIZES IN	01/02/18	JENS ROSOWSKI

Commercial
Architectural Products

CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
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PREPARED BY: A. LYNN MILLER
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Series	Desc.	Title	Scale	Sheet	DWG No.	Rev.
SS-3520	STOREFRONT WINDOW SYSTEM DETAILS - LM	TABLE 3	NTS	9 OF 16	SS3520FPA-A	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 4:

Mullion Anchor Cluster DP 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	
		4	6	4	6	4	6	4	6
24"	48"	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
36"		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
48"		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
60"		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
72"		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
90"		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
96"		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
108"		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
132"		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
168"		75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
180"		75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
24"	60"	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
36"		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
48"		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
60"		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
72"		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
90"		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
102"		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"		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
144"		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
30"		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
42"		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
54"		120.0	120.0	118.5	120.0	120.0	120.0	120.0	120.0
60"		120.0	120.0	114.3	120.0	120.0	120.0	120.0	120.0
70"		120.0	120.0	111.2	120.0	120.0	120.0	120.0	120.0
72"		120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0
84"		120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0
90"		120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0
92"		120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0
96"		120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0
102"		120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0
108"		120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0
120"		120.0	120.0	111.1	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
30"		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
42"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0
54"		120.0	120.0	104.6	120.0	120.0	120.0	120.0	120.0
60"		118.1	120.0	100.0	120.0	120.0	120.0	120.0	120.0
70"		113.0	120.0	95.7	120.0	120.0	120.0	120.0	120.0
72"		112.5	120.0	95.2	120.0	120.0	120.0	120.0	120.0
84"		111.8	120.0	94.7	120.0	120.0	120.0	120.0	120.0
90"		111.8	120.0	94.7	120.0	120.0	120.0	120.0	120.0
92"		111.8	120.0	94.7	120.0	120.0	120.0	120.0	120.0
96"		111.8	120.0	94.7	120.0	120.0	120.0	120.0	120.0
102"		111.8	120.0	94.7	120.0	120.0	120.0	120.0	120.0
108"		111.8	120.0	94.7	120.0	120.0	120.0	120.0	120.0

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

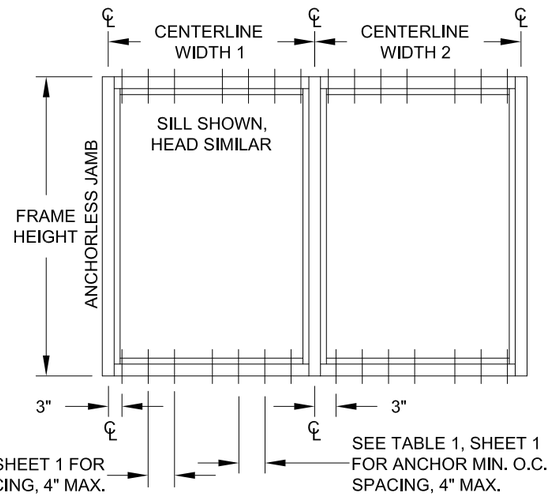
Average Centerline Width	Frame Height	Group "A" Anchor Quantity			Group "B" Anchor Quantity			Group "C" Anchor Quantity			Group "D" Anchor Quantity	
		4	6	8	4	6	8	4	6	8	4	6
24"	84"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		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	108.8	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		118.1	120.0	120.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		110.5	120.0	120.0	93.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		105.0	120.0	120.0	88.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		99.2	120.0	120.0	84.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
72"		98.4	120.0	120.0	83.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
84"		96.4	120.0	120.0	81.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
90"		96.4	120.0	120.0	81.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
92"		96.4	120.0	120.0	81.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
96"		96.4	120.0	120.0	81.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
102"		96.4	120.0	120.0	81.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
24"	90"	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
36"		120.0	120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		117.4	120.0	120.0	99.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		107.4	120.0	120.0	90.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		100.0	120.0	120.0	84.7	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		94.5	120.0	120.0	80.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
70"		88.4	120.0	120.0	74.8	112.2	120.0	112.2	120.0	120.0	120.0	120.0
72"		87.5	120.0	120.0	74.1	111.1	120.0	111.1	120.0	120.0	120.0	120.0
84"		84.4	120.0	120.0	71.4	107.1	120.0	107.1	120.0	120.0	120.0	120.0
90"		84.0	120.0	120.0	71.1	106.7	120.0	106.7	120.0	120.0	120.0	120.0
92"		84.0	120.0	120.0	71.1	106.7	120.0	106.7	120.0	120.0	120.0	120.0
96"		84.0	120.0	120.0	71.1	106.7	120.0	106.7	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
30"		120.0	120.0	120.0	116.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		118.5	120.0	120.0	100.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		105.5	120.0	120.0	89.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		96.1	120.0	120.0	81.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0
54"		89.0	120.0	120.0	75.4	113.1	120.0	113.1	120.0	120.0	120.0	120.0
60"		83.7	120.0	120.0	70.8	106.3	120.0	106.3	120.0	120.0	120.0	120.0
70"		77.4	116.2	120.0	65.6	98.3	120.0	98.3	120.0	120.0	120.0	120.0
72"		76.5	114.8	120.0	64.8	97.2	120.0	97.2	120.0	120.0	120.0	120.0
84"		72.6	109.0	120.0	61.5	92.2	120.0	92.2	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
30"		120.0	120.0	120.0	110.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		112.5	120.0	120.0	95.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		100.0	120.0	120.0	84.7	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		90.9	120.0	120.0	76.9	115.4	120.0	115.4	120.0	120.0	120.0	120.0
54"		84.0	120.0	120.0	71.1	106.7	120.0	106.7	120.0	120.0	120.0	120.0
60"		78.7	118.1	120.0	66.7	100.0	120.0	100.0	120.0	120.0	120.0	120.0
70"		72.5	108.8	120.0	61.4	92.1	120.0	92.1	120.0	120.0	120.0	120.0
72"		71.6	107.4	120.0	60.6	90.9	120.0	90.9	120.0	120.0	120.0	120.0
84"		67.5	101.2	120.0	57.1	85.7	114.3	85.7	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
30"		120.0	120.0	120.0	103.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		105.0	120.0	120.0	88.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		93.1	120.0	120.0	78.8	118.2	120.0	118.2	120.0	120.0	120.0	120.0
48"		84.4	120.0	120.0	71.4	107.1	120.0	107.1	120.0	120.0	120.0	120.0
54"		77.8	116.7	120.0	65.8	98.8	120.0	98.8	120.0	120.0	120.0	120.0
60"		72.7	109.0	120.0	61.5	92.3	120.0	92.3	120.0	120.0	120.0	120.0
70"		66.6	99.9	120.0	56.4	84.5	112.7	84.5	120.0	120.0	120.0	120.0
72"		65.6	98.4	120.0	55.6	83.3	111.1	83.3	120.0	120.0	120.0	120.0
24"	114"	120.0	120.0	120.0	117.6	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		114.5	120.0	120.0	97.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		98.4	120.0	120.0	83.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42"		87.1	120.0	120.0	73.7	110.6	120.0	110.6	120.0	120.0	120.0	120.0
48"		78.7	118.1	120.0	66.7	100.0	120.0	100.0	120.0	120.0	120.0	120.0
54"		72.4	108.6	120.0	61.3	92.0	120.0	92.0	120.0	120.0	120.0	120.0
60"		67.5	101.2	120.0	57.1	85.7	114.3	85.7	120.0	120.0	120.0	120.0
70"		61.5	92.3	120.0	52.1	78.1	104.2	78.1	117.2	120.0	120.0	120.0
72"		60.6	90.9	120.0	51.3	76.9	102.6	76.9	115.4	120.0	120.0	120.0

FOR ANCHORLESS JAMBS
USE ONLY HALF OF THE ANCHORS SPECIFIED IN TABLE 3, AND:

$$\text{AVERAGE CENTERLINE WIDTH} = \text{CENTERLINE WIDTH 1}$$

FOR INTERIOR MULLION CLUSTERS
USE THE QUANTITY OF ANCHORS SPECIFIED IN TABLE 3, AND:

$$\text{AVERAGE CENTERLINE WIDTH} = \frac{\text{CENTERLINE WIDTH 1} + \text{CENTERLINE WIDTH 2}}{2}$$



Mullion Anchor Cluster DP 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	
		4	6	8	4	6	8	4	6	8	4	6
24"	120"	120.0	120.0	120.0	111.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		108.0	120.0	120.0	91.4	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		92.6	120.0	120.0	78.4	117.6	120.0	117.6	120.0	120.0	120.0	120.0
42"		81.8	120.0	120.0	69.3	103.9	120.0	103.9	120.0	120.0	120.0	120.0
48"		73.8	110.7	120.0	62.5	93.8	120.0	93.8	120.0	120.0	120.0	120.0
54"		67.7	101.6	120.0	57.3	86.0	114.7	86.0	120.0	120.0	120.0	120.0
60"		63.0	94.5	120.0	53.3	80.0	106.7	80.0	120.0	120.0	120.0	120.0
70"		57.2	85.8	114.3	48.4	72.6	96.8	72.6	108.9	120.0	120.0	120.0
72"		56.2	84.4	112.5	47.6	71.4	95.2	71.4	107.1	120.0	120.0	120.0
24"	126"	120.0	120.0	120.0	105.3	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		102.2	120.0	120.0	86.5	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		87.5	120.0	120.0	74.1	111.1	120.0	111.1	120.0	120.0	120.0	120.0
42"		77.1	115.7	120.0	65.3	98.0	120.0	98.0	120.0	120.0	120.0	120.0
48"		69.5	104.2	120.0	58.8	88.2	117.6	88.2	120.0	120.0	120.0	120.0
54"		63.6	95.5	120.0	53.9	80.8	107.7	80.8	120.0	120.0	120.0	120.0
60"		59.1	88.6	118.1	50.0	75.0	100.0	75.0	112.5	120.0	120.0	120.0
24"	132"	118.1	120.0	120.0	100.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		96.9	120.0	120.0	82.1	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"		82.9	120.0	120.0	70.2	105.3	120.0	105.3	120.0	120.0	120.0	120.0
42"		73.0	109.5	120.0	61.8	92.7	120.0	92.7	120.0	120.0	120.0	120.0
48"		65.6	98.4	120.0	55.6	83.3	111.1	83.3	120.0	120.0	120.0	120.0
54"		60.0	90.0	120.0	50.8	76.2	101.6	76.2	114.3	120.0	120.0	120.0
60"		55.6	83.4	111.2	47.1	70.6	94.1	70.6	105.9	120.0	120.0	120.0
24"	138"	112.5	120.0	120.0	95.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		92.2	120.0	120.0	78.0	117.1	120.0	117.1	120.0	120.0	120.0	120.0
36"		78.7	118.1	120.0	66.7	100.0	120.0	100.0	120.0	120.0	120.0	120.0
42"		69.2	103.8	120.0	58.6	87.9	117.2	87.9	120.0	120.0	120.0	120.0
48"		62.2	93.3	120.0	52.6	78.9	105.3	78.9	118.4	120.0	120.0	120.0
54"		56.8	85.1	113.5	48.0	72.1	96.1	72.1	108.1	120.0	120.0	120.0
60"		52.5	78.7	105.0	44.4	66.7	88.9	66.7	100.0	120.0	120.0	120.0
24"	144"	107.4	120.0	120.0	90.9	120.0	120.0	120.0	120.0	120.0	120.0	120.0
30"		87.9	120.0	120.0	74.4	111.6	120.0	111.6	120.0	120.0	120.0	120.0
36"		75.0	112.5	120.0	63.5	95.2	120.0	95.2	120.0	120.0	120.0	120.0
42"		65.9	98.8	120.0	55.7	83.6	111.5	83.6	120.0	120.0	120.0	120.0
48"		59.1	88.6	118.1	50.0	75.0	100.0	75.0	112.5	120.0	120.0	120.0
54"		53.8	80.8	107.7	45.6	68.4	91.2	68.4	102.6	120.0	120.0	120.0
60"		49.7	74.6	99.5	42.1	63.2	84.2	63.2	94.7	120.0	116.4	120.0
24"	168"	68.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
30"		55.5	75.0	75.0	62.7	75.0	75.0	75.0	75.0	75.0	75.0	75.0
36"		47.2	70.8	75.0	53.3	75.0	75.0	75.0	75.0	75.0	75.0	75.0
42"		41.3	61.9	75.0	46.6	70.0	75.0	70.0	75.0	75.0	75.0	75.0
48"		36.9	55.3	73.7	41.7	62.5	75.0	62.5	75.0	75.0	75.0	75.0
24"	180"	63.2	75.0	75.0	71.4	75.0	75.0	75.0	75.0	75.0	75.0	75.0
30"		51.5	75.0	75.0	58.2	75.0	75.0	75.0	75.0	75.0	75.0	75.0
36"		43.7	65.5	75.0	49.4	74.1	75.0	74.1	75.0	75.0	75.0	75.0
42"		38.1	57.2	75.0	43.1	64.7	75.0	64.7	75.0	75.0	75.0	75.0
48"		34.0	51.0	68.0	38.5	57.7	75.0	57.7	75.0	75.0	75.0	75.0

1. IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (COMPATIBLE STOREFRONT ENTRANCE DOOR, PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.
2. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.

Rev.	Description	Date	Drawn By
A	TABLE - JR, 09/15/20		
	CORRECTED SIZES IN	01/02/18	JENS ROSOWSKI

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CERT. OF AUTH. #29296

Title	Desc.	Series	Scale	Sheet	DWG No.	Rev.
TABLE 4	STOREFRONT WINDOW SYSTEM DETAILS - LM	SS-3520	NTS	10 OF 16	SS3520FPA-A	A

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

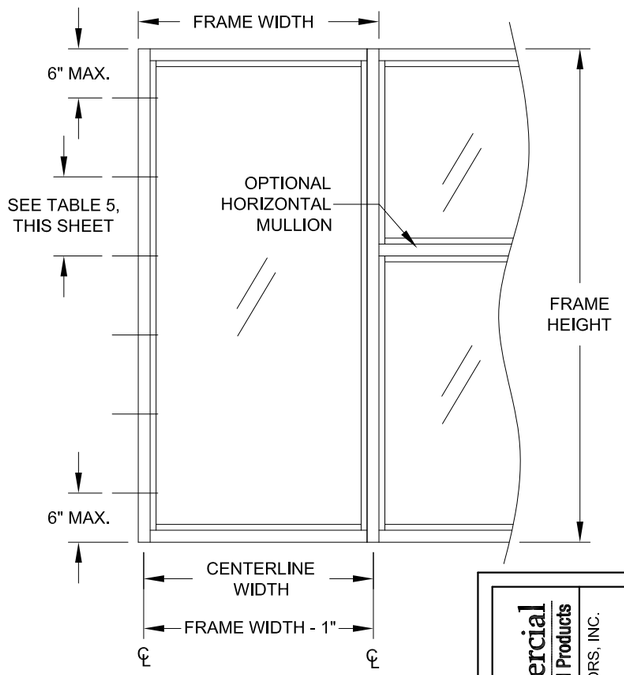
A. LYNN MILLER, P.E.
P.E.# 58705

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	
Centerline Wicth	Frame Height					
24"	48"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	
36"		18"	18"	18"	18"	
42"		18"	18"	18"	18"	
48"		18"	18"	18"	18"	
54"		18"	18"	18"	18"	
60"		18"	18"	18"	18"	
70"		18"	18"	18"	18"	
72"		18"	18"	18"	18"	
84"		18"	18"	18"	18"	
90"		18"	18"	18"	18"	
92"		18"	18"	18"	18"	
96"		18"	18"	18"	18"	
102"		18"	18"	18"	18"	
108"		18"	18"	18"	18"	
120"		18"	18"	18"	18"	
132"		18"	18"	18"	18"	
144"		18"	18"	18"	18"	
168"		18"	18"	18"	18"	
180"		18"	18"	18"	18"	
24"	60"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	
36"		18"	18"	18"	18"	
42"		18"	18"	18"	18"	
48"		18"	18"	18"	18"	
54"		18"	18"	18"	18"	
60"		18"	18"	18"	18"	
70"		18"	18"	18"	18"	
72"		18"	18"	18"	18"	
84"		18"	18"	18"	18"	
90"		18"	18"	18"	18"	
92"		18"	18"	18"	18"	
96"		18"	18"	18"	18"	
102"		18"	18"	18"	18"	
108"		18"	18"	18"	18"	
120"		18"	18"	18"	18"	
132"		18"	18"	18"	18"	
144"		18"	18"	18"	18"	
24"	72"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	
36"		18"	18"	18"	18"	
42"		18"	18"	18"	18"	
48"		18"	18"	18"	18"	
54"		18"	15"	18"	18"	
60"		18"	15"	18"	18"	
70"		18"	15"	18"	18"	
72"		18"	15"	18"	18"	
84"		18"	15"	18"	18"	
90"		18"	15"	18"	18"	
92"		18"	15"	18"	18"	
96"		18"	15"	18"	18"	
102"		18"	15"	18"	18"	
108"		18"	15"	18"	18"	
120"		18"	15"	18"	18"	

Jamb Anchor Spacing						Shim Thickness = 1/4"
Nominal Dim.		Installed with Group "A" Anchors	Installec with Group "B" Anchors	Installed with Group "C" Anchors	Installed with Group "D" Anchors	
Centerline Width	Frame Height					
24"	78"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	
36"		18"	18"	18"	18"	
42"		18"	18"	18"	18"	
48"		18"	16-1/2"	18"	18"	
54"		18"	16-1/2"	18"	18"	
60"		16-1/2"	16-1/2"	18"	18"	
70"		16-1/2"	13-3/16"	18"	18"	
72"		16-1/2"	13-3/16"	18"	18"	
84"		16-1/2"	13-3/16"	18"	18"	
90"		16-1/2"	13-3/16"	18"	18"	
92"		16-1/2"	13-3/16"	18"	18"	
96"		16-1/2"	13-3/16"	18"	18"	
102"		16-1/2"	13-3/16"	18"	18"	
108"		16-1/2"	13-3/16"	18"	18"	
24"	84"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	
36"		18"	18"	18"	18"	
42"		18"	18"	18"	18"	
48"		18"	18"	18"	18"	
54"		18"	14-3/8"	18"	18"	
60"		18"	14-3/8"	18"	18"	
70"		18"	14-3/8"	18"	18"	
72"		18"	14-3/8"	18"	18"	
84"		18"	14-3/8"	18"	18"	
90"		18"	14-3/8"	18"	18"	
92"		18"	14-3/8"	18"	18"	
96"		18"	14-3/8"	18"	18"	
102"		18"	14-3/8"	18"	18"	
24"	90"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	
36"		18"	18"	18"	18"	
42"		18"	18"	18"	18"	
48"		18"	15-5/8"	18"	18"	
54"		18"	15-5/8"	18"	18"	
60"		15-5/8"	15-5/8"	18"	18"	
70"		15-5/8"	13"	18"	18"	
72"		15-5/8"	13"	18"	18"	
84"		15-5/8"	13"	18"	18"	
90"		15-5/8"	13"	18"	18"	
92"		15-5/8"	13"	18"	18"	
96"		15-5/8"	13"	18"	18"	
24"	97-3/4"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	
36"		18"	18"	18"	18"	
42"		18"	17-1/8"	18"	18"	
48"		18"	17-1/8"	18"	18"	
54"		17-1/8"	14-5/16"	18"	18"	
60"		17-1/8"	14-5/16"	18"	18"	
70"		14-5/16"	12-1/4"	18"	18"	
72"		14-5/16"	12-1/4"	18"	18"	
84"		14-5/16"	12-1/4"	17-1/8"	18"	
24"	102"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	
36"		18"	18"	18"	18"	
42"		18"	18"	18"	18"	
48"		18"	15"	18"	18"	
54"		18"	15"	18"	18"	
60"		15"	12-7/8"	18"	18"	
70"		15"	12-7/8"	18"	18"	
72"		15"	12-7/8"	18"	18"	
84"		12-7/8"	11-1/4"	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	
Centerline Width	Frame Height					
24"	108"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	
36"		18"	18"	18"	18"	
42"		18"	16"	18"	18"	
48"		18"	16"	18"	18"	
54"		16"	13-11/16"	18"	18"	
60"		16"	13-11/16"	18"	18"	
70"		13-11/16"	12"	18"	18"	
72"		13-11/16"	12"	18"	18"	
24"	114"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	
36"		18"	18"	18"	18"	
42"		18"	17"	18"	18"	
48"		17"	14-9/16"	18"	18"	
54"		17"	14-9/16"	18"	18"	
60"		14-9/16"	12-3/4"	18"	18"	
70"		14-9/16"	11-5/16"	17"	18"	
72"		14-9/16"	11-5/16"	17"	18"	
24"	120"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	
36"		18"	18"	18"	18"	
42"		18"	18"	18"	18"	
48"		18"	15-7/16"	18"	18"	
54"		15-7/16"	13-1/2"	18"	18"	
60"		15-7/16"	13-1/2"	18"	18"	
70"		13-1/2'	12'	18"	18"	
72"		13-1/2'	10-13/16"	18"	18"	
24"	126"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	
36"		18"	18"	18"	18"	
42"		18"	16-5/16"	18"	18"	
48"		18"	14-1/4"	18"	18"	
54"		16-5/16"	14-1/4"	18"	18"	
60"		14-1/4'	12-11/16"	18"	18"	
24"	132"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	
36"		18"	18"	18"	18"	
42"		18"	17-1/8"	18"	18"	
48"		17-1/8'	15'	18"	18"	
54"		15"	13-5/16"	18"	18"	
60"		15"	12'	18"	18"	
24"	138"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	
36"		18"	18"	18"	18"	
42"		18"	15-3/4"	18"	18"	
48"		18"	14'	18"	18"	
54"		15-3/4'	14'	18"	18"	
60"		14"	12-5/8"	18"	18"	
24"	144"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	
36"		18"	18"	18"	18"	
42"		18"	16-1/2"	18"	18"	
48"		16-1/2'	14-11/16"	18"	18"	
54"		16-1/2'	13-3/16"	18"	18"	
60"		14-11/15"	12'	18"	18"	
24"	168"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	
36"		18"	18"	18"	18"	
42"		18"	18"	18"	18"	
48"		18"	18"	18"	18"	
24"	180"	18"	18"	18"	18"	
30"		18"	18"	18"	18"	
36"		18"	18"	18"	18"	
42"		18"	18"	18"	18"	
48"		18"	18"	18"	18"	



1. IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (COMPATIBLE STOREFRONT ENTRANCE DOOR, PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.
2. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.

Rev.	Description	Date	Drawn By
A	TABLE - JR, 09/15/20 CORRECTED SIZES IN	01/02/18	JENS ROSOWSKI

CGI Commercial Architectural Products

CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(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

Series	Desc.	Title	DWG No.	Scale	Sheet
SS-3520	STOREFRONT WINDOW SYSTEM DETAILS - LM	TABLE 5	SS3520FPA-A	NTS	11 OF 16

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

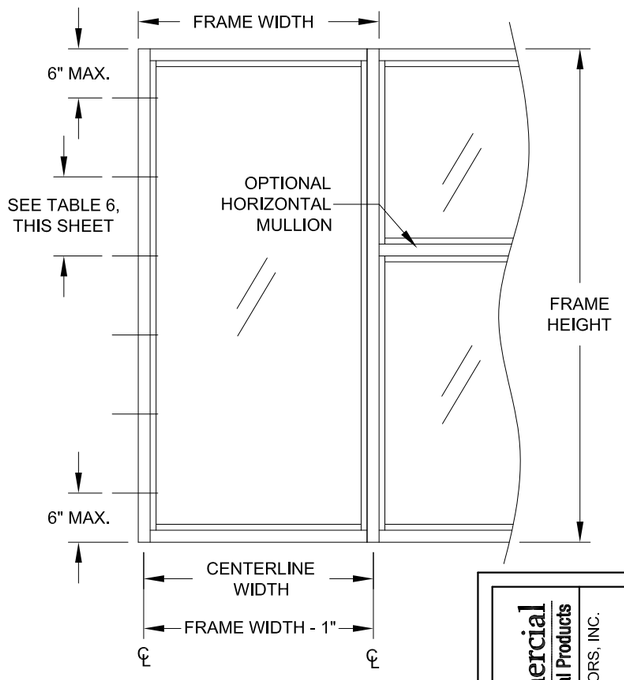
A. LYNN MILLER, P.E.
P.E.# 58705

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
Centerline Width	Frame Height				
24"	48"	18"	18"	18"	18"
30"		18"	18"	18"	18"
36"		18"	18"	18"	18"
42"		18"	18"	18"	18"
48"		18"	18"	18"	18"
54"		18"	18"	18"	18"
60"		18"	18"	18"	18"
70"		18"	18"	18"	18"
72"		18"	18"	18"	18"
84"		18"	18"	18"	18"
90"		18"	18"	18"	18"
92"		18"	18"	18"	18"
96"		18"	18"	18"	18"
102"		18"	18"	18"	18"
108"		18"	18"	18"	18"
120"		18"	18"	18"	18"
132"		18"	18"	18"	18"
144"		18"	18"	18"	18"
168"		18"	18"	18"	18"
180"		18"	18"	18"	18"
24"	60"	18"	18"	18"	18"
30"		18"	18"	18"	18"
36"		18"	18"	18"	18"
42"		16"	18"	18"	18"
48"		16"	18"	18"	18"
54"		16"	18"	18"	18"
60"		16"	18"	18"	18"
70"		16"	18"	18"	18"
72"		16"	18"	18"	18"
84"		16"	18"	18"	18"
90"		16"	18"	18"	18"
92"		16"	18"	18"	18"
96"		16"	18"	18"	18"
102"		16"	18"	18"	18"
108"		16"	18"	18"	18"
120"		16"	18"	18"	18"
132"		16"	18"	18"	18"
144"		16"	18"	18"	18"
24"	72"	18"	18"	18"	18"
30"		18"	18"	18"	18"
36"		18"	18"	18"	18"
42"		15"	18"	18"	18"
48"		15"	18"	18"	18"
54"		15"	15"	18"	18"
60"		15"	15"	18"	18"
70"		15"	15"	18"	18"
72"		15"	15"	18"	18"
84"		15"	15"	18"	18"
90"		15"	15"	18"	18"
92"		15"	15"	18"	18"
96"		15"	15"	18"	18"
102"		15"	15"	18"	18"
108"		15"	15"	18"	18"
120"		15"	15"	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
Centerline Width	Frame Height				
24"	78"	18"	18"	18"	18"
30"		18"	18"	18"	18"
36"		16-1/2"	18"	18"	18"
42"		16-1/2"	18"	18"	18"
48"		16-1/2"	16-1/2"	18"	18"
54"		13-3/16"	16-1/2"	18"	18"
60"		13-3/16"	16-1/2"	18"	18"
70"		13-3/16"	13-3/16"	18"	18"
72"		13-3/16"	13-3/16"	18"	18"
84"		13-3/16"	13-3/16"	18"	18"
90"		13-3/16"	13-3/16"	18"	18"
92"		13-3/16"	13-3/16"	18"	18"
96"		13-3/16"	13-3/16"	18"	18"
102"		13-3/16"	13-3/16"	18"	18"
108"		13-3/16"	13-3/16"	18"	18"
24"	84"	18"	18"	18"	18"
30"		18"	18"	18"	18"
36"		18"	18"	18"	18"
42"		18"	18"	18"	18"
48"		14-3/8"	18"	18"	18"
54"		14-3/8"	14-3/8"	18"	18"
60"		12"	14-3/8"	18"	18"
70"		12"	14-3/8"	18"	18"
72"		12"	14-3/8"	18"	18"
84"		12"	14-3/8"	18"	18"
90"		12"	14-3/8"	18"	18"
92"		12"	14-3/8"	18"	18"
96"		12"	14-3/8"	18"	18"
102"		12"	14-3/8"	18"	18"
24"	90"	18"	18"	18"	18"
30"		18"	18"	18"	18"
36"		18"	18"	18"	18"
42"		15-5/8"	18"	18"	18"
48"		15-5/8"	15-5/8"	18"	18"
54"		13"	15-5/8"	18"	18"
60"		13"	15-5/8"	18"	18"
70"		11-1/8"	13"	18"	18"
72"		11-1/8"	13"	18"	18"
84"		11-1/8"	13"	18"	18"
90"		11-1/8"	13"	18"	18"
92"		11-1/8"	13"	18"	18"
96"		11-1/8"	13"	18"	18"
24"	97.75"	18"	18"	18"	18"
30"		18"	18"	18"	18"
36"		17-1/8"	18"	18"	18"
42"		14-5/16"	17-1/8"	18"	18"
48"		14-5/16"	17-1/8"	18"	18"
54"		12-1/4"	14-5/16"	18"	18"
60"		12-1/4"	14-5/16"	18"	18"
70"		10-3/4"	12-1/4"	18"	18"
72"		10-3/4"	12-1/4"	18"	18"
84"		10-3/4"	12-1/4"	17-1/8"	18"
24"	102"	18"	18"	18"	18"
30"		18"	18"	18"	18"
36"		18"	18"	18"	18"
42"		15"	18"	18"	18"
48"		12-7/8"	15"	18"	18"
54"		12-7/8"	15"	18"	18"
60"		11-1/4"	12-7/8"	18"	18"
70"		11-1/4"	12-7/8"	18"	18"
72"		11-1/4"	12-7/8"	18"	18"
84"		10"	11-1/4"	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
Centerline Width	Frame Height				
24"	108"	18"	18"	18"	18"
30"		18"	18"	18"	18"
36"		16"	18"	18"	18"
42"		16"	16"	18"	18"
48"		13-11/16"	16"	18"	18"
54"		12"	13-11/16"	18"	18"
60"		12"	13-11/16"	18"	18"
70"		10-11/16"	12"	18"	18"
72"		10-11/16"	12"	18"	18"
24"	114"	18"	18"	18"	18"
30"		18"	18"	18"	18"
36"		17"	18"	18"	18"
42"		14-9/16"	17"	18"	18"
48"		12-3/4"	14-9/16"	18"	18"
54"		12-3/4"	14-9/16"	18"	18"
60"		11-5/16"	12-3/4"	18"	18"
70"		10-3/16"	11-5/16"	17"	18"
72"		10-3/16"	11-5/16"	17"	18"
24"	120"	18"	18"	18"	18"
30"		18"	18"	18"	18"
36"		18"	18"	18"	18"
42"		15-7/16"	18"	18"	18"
48"		13-1/2"	15-7/16"	18"	18"
54"		12"	13-1/2"	18"	18"
60"		10-13/16"	13-1/2"	18"	18"
70"		9-13/16"	12"	18"	18"
72"		9-13/16"	10-13/16"	18"	18"
24"	126"	18"	18"	18"	18"
30"		18"	18"	18"	18"
36"		16-5/16"	18"	18"	18"
42"		14-1/4"	16-5/16"	18"	18"
48"		12-11/16"	14-1/4"	18"	18"
54"		11-3/8"	14-1/4"	18"	18"
60"		11-3/8"	12-11/16"	18"	18"
24"	132"	18"	18"	18"	18"
30"		18"	18"	18"	18"
36"		17-1/8"	18"	18"	18"
42"		15"	17-1/8"	18"	18"
48"		13-5/16"	15"	18"	18"
54"		12"	13-5/16"	18"	18"
60"		10-15/16"	12"	18"	18"
24"	138"	18"	18"	18"	18"
30"		18"	18"	18"	18"
36"		15-3/4"	18"	18"	18"
42"		14"	15-3/4"	18"	18"
48"		12-5/8"	14"	18"	18"
54"		11-7/16"	14"	18"	18"
60"		10-1/2"	12-5/8"	18"	18"
24"	144"	18"	18"	18"	18"
30"		18"	18"	18"	18"
36"		16-1/2"	18"	18"	18"
42"		14-11/16"	16-1/2"	18"	18"
48"		13-3/16"	14-11/16"	18"	18"
54"		12"	13-3/16"	18"	18"
60"		11"	12"	18"	18"
24"	168"	18"	18"	18"	18"
30"		18"	18"	18"	18"
36"		18"	18"	18"	18"
42"		18"	18"	18"	18"
48"		18"	18"	18"	18"
24"	180"	18"	18"	18"	18"
30"		18"	18"	18"	18"
36"		18"	18"	18"	18"
42"		18"	18"	18"	18"
48"		18"	18"	18"	18"



1. IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (COMPATIBLE STOREFRONT ENTRANCE DOOR, PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.
2. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.

Rev. A — CORRECTED SIZES IN
Rev. Description — TABLE - JR, 09/15/20
Drawn By — JENS ROSOWSKI
Date — 01/02/18

Commercial Architectural Products
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(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-3520
Scale — NTS
Sheet — 12 OF 16
DWG No. — SS3520FPA-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 7:

Mid-Panel Anchor Quantity — Shim Thickness = 1/4"

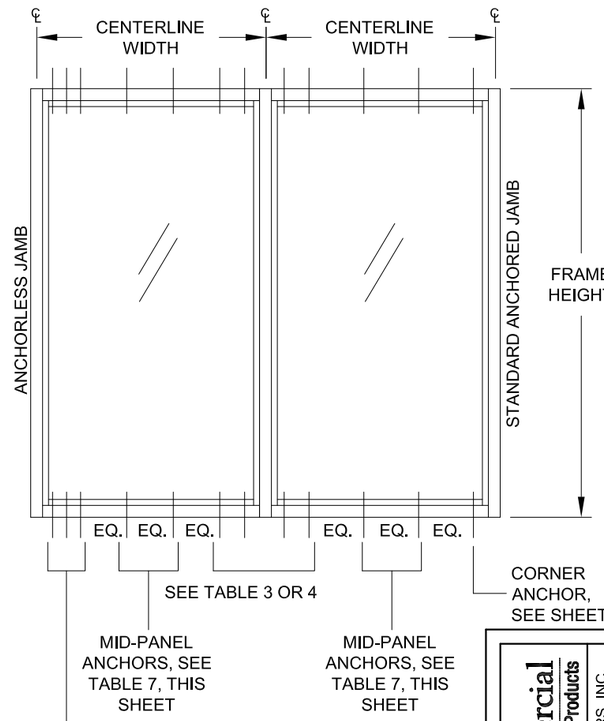
Nominal Dim.		Installed with Group "A" Anchors	Installed with Group "B" Anchors	Installed with Group "C" Anchors	Installed with Group "D" Anchors
Centerline Width	Frame Height				
24"	48"	1	1	1	1
30"		1	1	1	1
36"		1	2	1	1
42"		2	2	1	1
48"		2	2	2	1
54"		3	3	2	2
60"		3	3	2	2
70"		4	4	3	3
72"		4	4	3	3
84"		5	5	4	4
90"		5	6	4	4
92"		5	6	5	5
96"		5	6	5	5
102"		6	7	5	5
108"		6	7	6	6
120"		7	8	6	6
132"		8	9	7	7
144"		9	10	8	8
168"		7	8	5	5
180"		7	8	6	6
24"	60"	1	1	1	1
30"		1	1	1	1
36"		1	2	1	1
42"		2	2	1	1
48"		2	2	2	1
54"		3	3	2	2
60"		3	3	2	2
70"		4	4	3	3
72"		4	5	3	3
84"		5	6	4	4
90"		6	6	4	4
92"		6	7	5	5
96"		6	7	5	5
102"		7	8	5	5
108"		7	8	6	6
120"		8	9	6	6
132"		9	11	7	7
144"		10	12	8	8
24"	72"	1	1	1	1
30"		1	1	1	1
36"		1	2	1	1
42"		2	2	1	1
48"		2	2	2	1
54"		3	3	2	2
60"		3	3	2	2
70"		4	5	3	3
72"		4	5	3	3
84"		5	6	4	4
90"		6	7	5	4
92"		6	7	5	5
96"		7	8	5	5
102"		7	8	6	5
108"		8	9	6	6
120"		9	11	7	6

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
Centerline Width	Frame Height				
24"	78"	1	1	1	1
30"		1	1	1	1
36"		1	2	1	1
42"		2	2	1	1
48"		2	2	2	1
54"		3	3	2	2
60"		3	3	2	2
70"		4	5	3	3
72"		4	5	3	3
84"		5	6	4	4
90"		6	7	5	4
92"		6	7	5	5
96"		7	8	5	5
102"		7	9	6	5
108"		8	9	6	6
24"	84"	1	1	1	1
30"		1	1	1	1
36"		1	2	1	1
42"		2	2	1	1
48"		2	2	2	1
54"		3	3	2	2
60"		3	3	2	2
70"		4	5	3	3
72"		4	5	3	3
84"		5	6	4	4
90"		6	7	5	4
92"		6	7	5	5
96"		7	8	6	5
102"		7	9	6	5
108"		8	9	6	6
24"	90"	1	1	1	1
30"		1	1	1	1
36"		1	2	1	1
42"		2	2	1	1
48"		2	2	2	1
54"		3	3	2	2
60"		3	3	2	2
70"		4	5	3	3
72"		4	5	3	3
84"		5	6	4	4
90"		6	7	5	4
92"		6	8	5	5
96"		7	8	6	5
24"	97-3/4"	1	1	1	1
30"		1	1	1	1
36"		1	2	1	1
42"		2	2	1	1
48"		2	2	2	1
54"		3	3	2	2
60"		3	3	2	2
70"		4	5	3	3
72"		4	5	3	3
84"		5	6	4	4
24"	102"	1	1	1	1
30"		1	1	1	1
36"		1	2	1	1
42"		2	2	1	1
48"		2	2	2	1
54"		3	3	2	2
60"		3	3	2	2
70"		4	5	3	3
72"		4	5	3	3
84"		5	6	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
Centerline Width	Frame Height				
24"	108"	1	1	1	1
30"		1	1	1	1
36"		1	2	1	1
42"		2	2	1	1
48"		2	2	2	1
54"		3	3	2	2
60"		3	3	2	2
70"		4	5	3	3
72"		4	5	3	3
24"	114"	1	1	1	1
30"		1	1	1	1
36"		1	2	1	1
42"		2	2	1	1
48"		2	2	2	1
54"		3	3	2	2
60"		3	3	2	2
70"		4	5	3	3
72"		4	5	3	3
24"	120"	1	1	1	1
30"		1	1	1	1
36"		1	2	1	1
42"		2	2	1	1
48"		2	2	2	1
54"		3	3	2	2
60"		3	3	2	2
70"		4	5	3	3
72"		4	5	3	3
24"	126"	1	1	1	1
30"		1	1	1	1
36"		1	2	1	1
42"		2	2	1	1
48"		2	2	2	1
54"		3	3	2	2
60"		3	3	2	2
24"	132"	1	1	1	1
30"		1	1	1	1
36"		1	2	1	1
42"		2	2	1	1
48"		2	2	2	1
54"		3	3	2	2
60"		3	3	2	2
24"	138"	1	1	1	1
30"		1	1	1	1
36"		1	2	1	1
42"		2	2	1	1
48"		2	2	2	1
54"		3	3	2	2
60"		3	3	2	2
24"	144"	1	1	1	1
30"		1	1	1	1
36"		1	2	1	1
42"		2	2	1	1
48"		2	2	2	1
54"		3	3	2	2
60"		3	3	2	2
24"	168"	1	1	1	1
30"		1	1	1	1
36"		1	1	1	1
42"		1	1	1	1
48"		2	1	1	1
24"	180"	1	1	1	1
30"		1	1	1	1
36"		1	1	1	1
42"		1	1	1	1
48"		2	1	1	1



SILL SHOWN, HEAD SIMILAR, ANCHOR QUANTITY MAY VARY PER TABLE, THIS SHEET.

1. IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (COMPATIBLE STOREFRONT ENTRANCE DOOR, PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.
2. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.
3. MID-PANEL ANCHORS TO BE EQUALLY SPACED, +/- 1/2".

Rev. A — TABLE - JR, 09/15/20
Rev. Description — CORRECTED SIZES IN
Drawn By — JENS ROSOWSKI
Date — 01/02/18
No. — SS3520FPA-A
Scale — NTS
Sheet — 13 OF 16
DWG No. —
Series — SS-3520
Desc. — STOREFRONT WINDOW SYSTEM DETAILS - LM
Title — TABLE 7

Commercial
Architectural Products
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

PREPARED BY: A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275; (941) 480-1600
CERT. OF AUTH. #29296

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

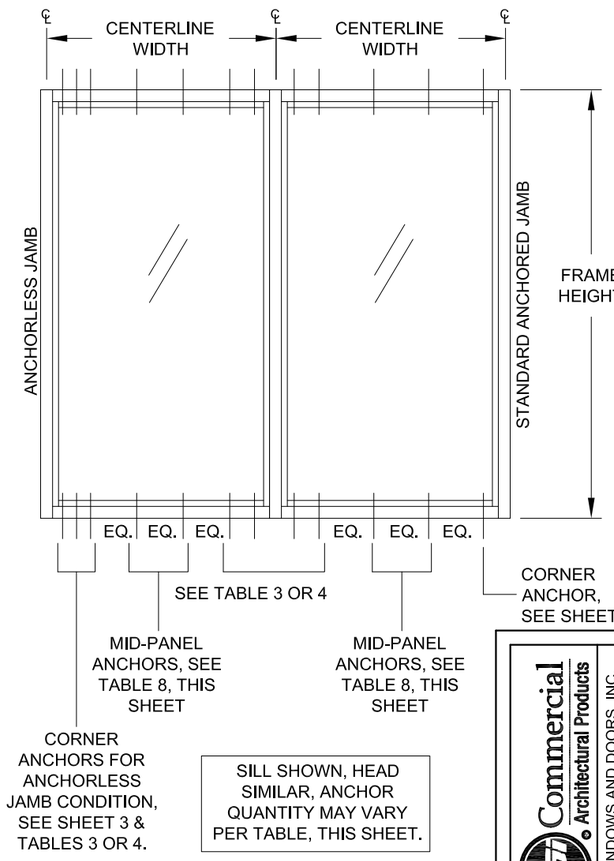
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 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
Centerline Width	Frame Height				
24"	48"	1	1	1	1
30"		1	1	1	1
36"		2	2	1	1
42"		2	2	1	1
48"		3	2	2	1
54"		3	3	2	2
60"		4	3	2	2
70"		5	4	3	3
72"		5	4	3	3
84"		6	5	4	4
90"		6	6	4	4
92"		7	6	5	5
96"		7	6	5	5
102"		8	7	5	5
108"		8	7	6	6
120"		9	8	6	6
132"		10	9	7	7
144"		11	10	8	8
168"		9	8	5	5
180"		9	8	6	6
24"	60"	1	1	1	1
30"		1	1	1	1
36"		2	2	1	1
42"		2	2	1	1
48"		3	2	2	1
54"		3	3	2	2
60"		4	3	2	2
70"		5	4	3	3
72"		5	5	3	3
84"		7	6	4	4
90"		7	6	4	4
92"		8	7	5	5
96"		8	7	5	5
102"		9	8	5	5
108"		9	8	6	6
120"		11	9	6	6
132"		12	11	7	7
144"		13	12	8	8
24"	72"	1	1	1	1
30"		1	1	1	1
36"		2	2	1	1
42"		2	2	1	1
48"		3	2	2	1
54"		3	3	2	2
60"		4	3	2	2
70"		5	5	3	3
72"		5	5	3	3
84"		7	6	4	4
90"		8	7	5	4
92"		8	7	5	5
96"		9	8	5	5
102"		9	8	6	5
108"		10	9	6	6
120"		12	11	7	6

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
Centerline Width	Frame Height				
24"	78"	1	1	1	1
30"		1	1	1	1
36"		2	2	1	1
42"		2	2	1	1
48"		3	2	2	1
54"		3	3	2	2
60"		4	3	2	2
70"		5	5	3	3
72"		5	5	3	3
84"		7	6	4	4
90"		8	7	5	4
92"		8	7	5	5
96"		9	8	5	5
102"		10	9	6	5
108"		11	9	6	6
24"	84"	1	1	1	1
30"		1	1	1	1
36"		2	2	1	1
42"		2	2	1	1
48"		3	2	2	1
54"		3	3	2	2
60"		4	3	2	2
70"		5	5	3	3
72"		5	5	3	3
84"		7	6	4	4
90"		8	7	5	4
92"		8	7	5	5
96"		9	8	6	5
102"		10	9	6	5
24"	90"	1	1	1	1
30"		1	1	1	1
36"		2	2	1	1
42"		2	2	1	1
48"		3	2	2	1
54"		3	3	2	2
60"		4	3	2	2
70"		5	5	3	3
72"		5	5	3	3
84"		7	6	4	4
90"		8	7	5	4
92"		8	8	5	5
96"		9	8	6	5
24"	97-3/4"	1	1	1	1
30"		1	1	1	1
36"		2	2	1	1
42"		2	2	1	1
48"		3	2	2	1
54"		3	3	2	2
60"		4	3	2	2
70"		5	5	3	3
72"		5	5	3	3
84"		7	6	4	4
24"	102"	1	1	1	1
30"		1	1	1	1
36"		2	2	1	1
42"		2	2	1	1
48"		3	2	2	1
54"		3	3	2	2
60"		4	3	2	2
70"		5	5	3	3
72"		5	5	3	3
84"		7	6	4	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
Centerline Width	Frame Height				
24"	108"	1	1	1	1
30"		1	1	1	1
36"		2	2	1	1
42"		2	2	1	1
48"		3	2	2	1
54"		3	3	2	2
60"		4	3	2	2
70"		5	5	3	3
72"		5	5	3	3
24"	114"	1	1	1	1
30"		1	1	1	1
36"		2	2	1	1
42"		2	2	1	1
48"		3	2	2	1
54"		3	3	2	2
60"		4	3	2	2
70"		5	5	3	3
72"		5	5	3	3
24"	120"	1	1	1	1
30"		1	1	1	1
36"		2	2	1	1
42"		2	2	1	1
48"		3	2	2	1
54"		3	3	2	2
60"		4	3	2	2
70"		5	5	3	3
72"		5	5	3	3
24"	126"	1	1	1	1
30"		1	1	1	1
36"		2	2	1	1
42"		2	2	1	1
48"		3	2	2	1
54"		3	3	2	2
60"		4	3	2	2
24"	132"	1	1	1	1
30"		1	1	1	1
36"		2	2	1	1
42"		2	2	1	1
48"		3	2	2	1
54"		3	3	2	2
60"		4	3	2	2
24"	138"	1	1	1	1
30"		1	1	1	1
36"		2	2	1	1
42"		2	2	1	1
48"		3	2	2	1
54"		3	3	2	2
60"		4	3	2	2
24"	144"	1	1	1	1
30"		1	1	1	1
36"		2	2	1	1
42"		2	2	1	1
48"		3	2	2	1
54"		3	3	2	2
60"		4	3	2	2
24"	144"	1	1	1	1
30"		1	1	1	1
36"		1	1	1	1
42"		2	1	1	1
48"		2	2	1	1
24"	144"	1	1	1	1
30"		1	1	1	1
36"		1	1	1	1
42"		2	1	1	1
48"		2	2	1	1



SILL SHOWN, HEAD SIMILAR, ANCHOR QUANTITY MAY VARY PER TABLE, THIS SHEET.

1. IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (COMPATIBLE STOREFRONT ENTRANCE DOOR, PTAC LOUVER OR WINDOW INSERT) THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.
2. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.
3. MID-PANEL ANCHORS TO BE EQUALLY SPACED, +/- 1/2".

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

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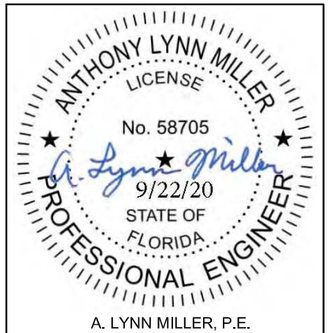
CGI WINDOWS AND DOORS, INC.
3780 W 104TH STREET
HIALEAH, FL 33018
(305) 593-6590

Rev.	Description	Drawn By	Date
A	CORRECTED SIZES IN TABLE - JR, 09/15/20	JENS ROSOWSKI	01/02/18

Series	Desc.	Scale	Sheet
SS-3520	STOREFRONT WINDOW SYSTEM DETAILS - LM	NTS	14 OF 16

Title: TABLE 8

DWG No.: SS3520FPA-A



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

TABLE 9:

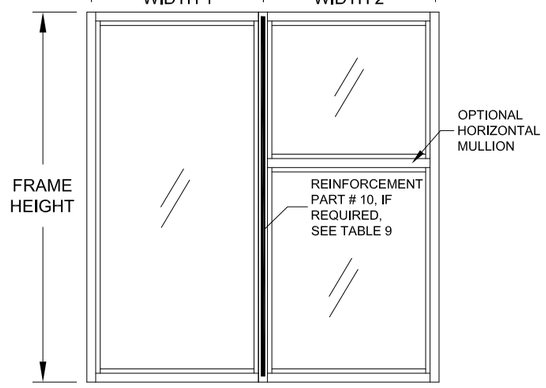
Average Centerline Width	Frame Height	Mullion DP, psf: 5" Unreinforced Mullion	5" Reinforced Mullion	7" Unreinforced HD Mullion	7" Reinforced HD Mullion
24"	48"	+70/-80	+90/-120	+70/-70	+60/-75
30"		+70/-80	+90/-120	+70/-70	+60/-75
36"		+70/-80	+90/-120	+70/-70	+60/-75
42"		+70/-80	+90/-120	+70/-70	+60/-75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

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

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

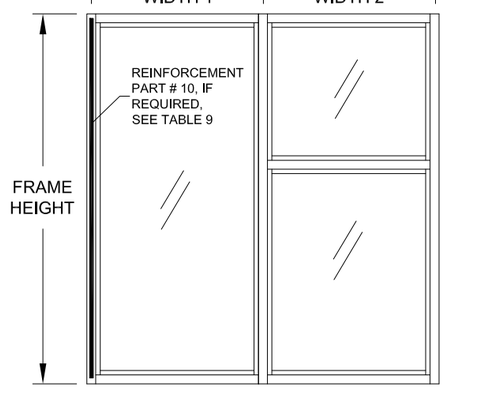
1. IF COMBINED WITH ANOTHER ASSEMBLY WITH A SEPARATE APPROVAL, (COMPATIBLE STOREFRONT ENTRANCE DOOR, PTAC LOUVER OR WINDOW INSERT). THE LESSER DESIGN PRESSURE VALUE OF ANY ASSEMBLY OR THE STOREFRONT WINDOW SHALL BE THE DESIGN PRESSURE FOR THE ENTIRE SYSTEM.
2. FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.

$$\text{AVERAGE CENTERLINE WIDTH} = \frac{\text{CENTERLINE WIDTH 1} + \text{CENTERLINE WIDTH 2}}{2}$$



INTERIOR MULLIONS

$$\text{AVERAGE CENTERLINE WIDTH} = \frac{\text{CENTERLINE WIDTH 1}}{2}$$



ANCHORLESS JAMB/MULLION

Commercial
Architectural Products

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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 9
Desc.: STOREFRONT WINDOW SYSTEM
Series: SS-3520 | Scale: NTS | Sheet: 15 OF 16 | DWG No.: SS3520FPA-A | Date: 01/02/18 | Drawn By: JENS ROSOWSKI

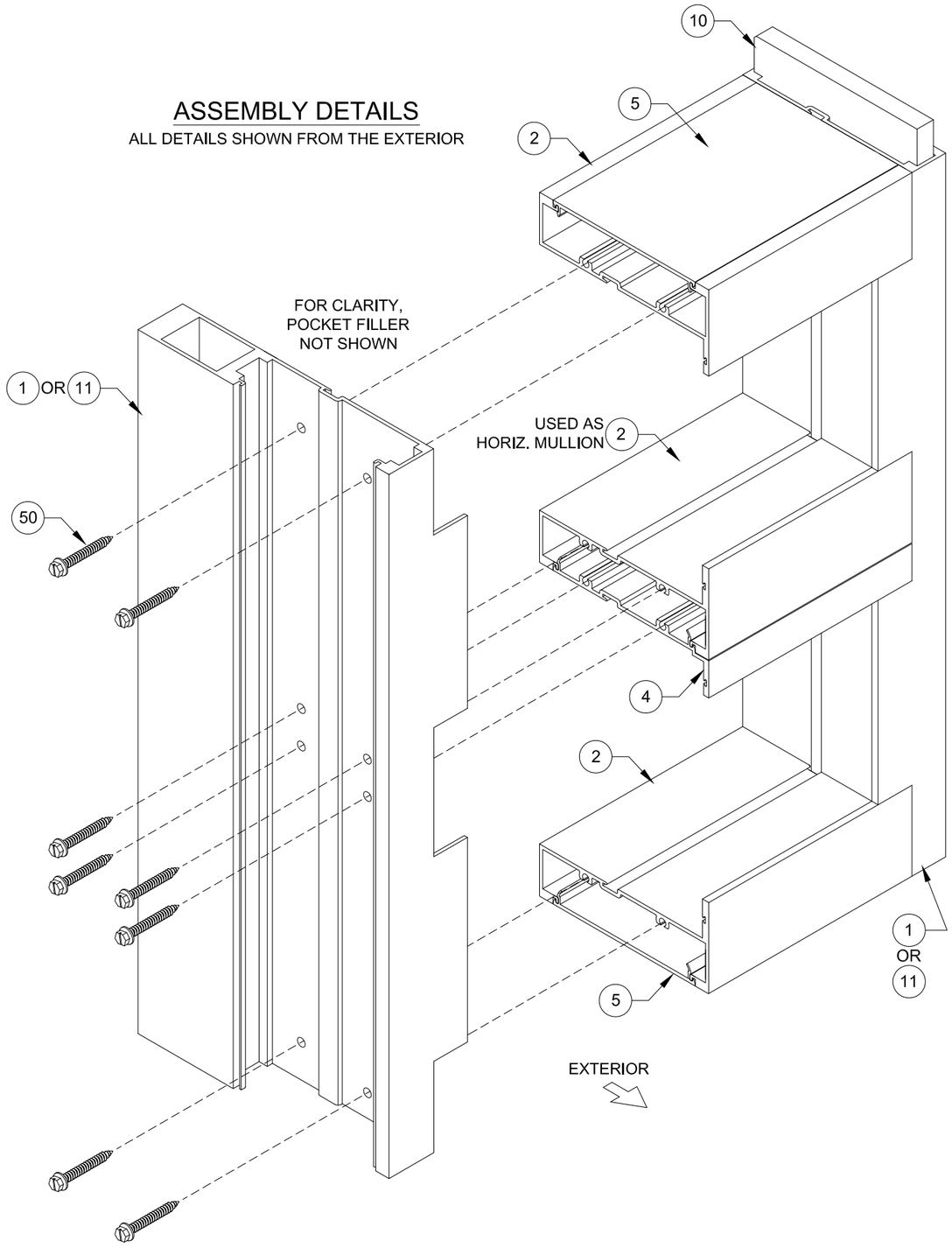
Rev. | Description | Rev.
A | CORRECTED SIZES IN TABLE - JR, 09/15/20 |

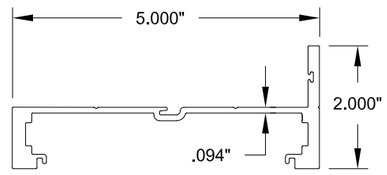
ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
9/22/20
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

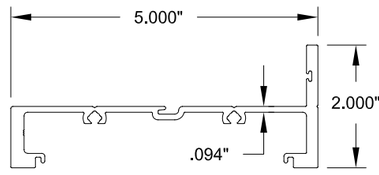
ASSEMBLY DETAILS

ALL DETAILS SHOWN FROM THE EXTERIOR

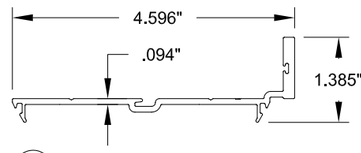




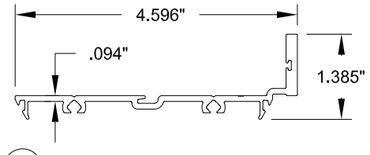
1 JAMB/MULLION



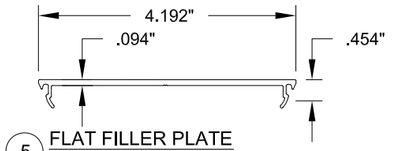
2 HEAD/SILL/HORIZONTAL



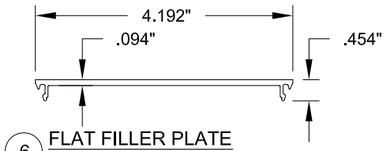
3 VERTICAL POCKET FILLER



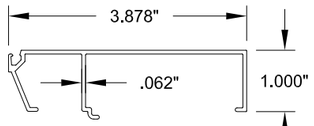
4 HORIZONTAL POCKET FILLER



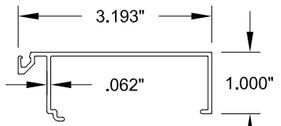
5 FLAT FILLER PLATE
(USED WITH NON-REINF. MULLION)



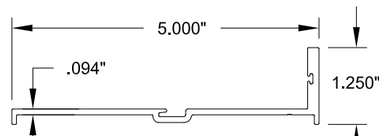
6 FLAT FILLER PLATE
(USED WITH REINFORCED MULLION)



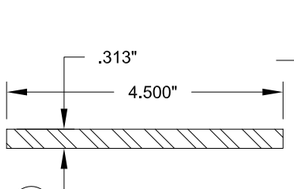
7 9/16" LAMI GLASS STOP



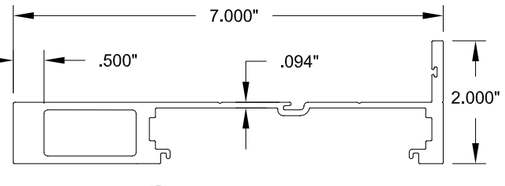
8 1-1/4" IG GLASS STOP



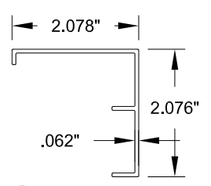
9 DOOR TRANSOM
ADAPTER



10 STEEL REINFORCEMENT



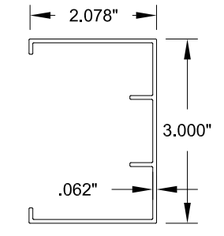
11 HD JAMB/MULLION



13 HD JAMB COVER

TABLE 10:

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



14 HD MULLION COVER

Rev.	Description	Drawn By	Date
A		JENS ROSOWSKI	01/02/18

Commercial Architectural Products

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Title: BOM & EXTRUSIONS

Desc: STOREFRONT WINDOW SYSTEM DETAILS - LM

Series	Scale	Sheet
SS-3520	NTS	16 OF 16

DWG No.: SS3520FPA-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