Engineering Evaluation Report #560-02102023.01

Prepared by:
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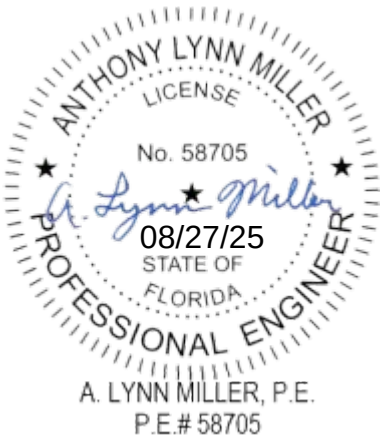
Manufacturer:
WinDoor Incorporated
104 Triple Diamond Blvd.
North Venice, FL 34275
(833) 554-5432

Product Description:
SGD560A Series Aluminum LMI HVHZ Sliding Glass Door – FL16755

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

Supporting Technical Documentation:
1. Approval Document: drawing number SGD560-LMI-FPA – REV A, signed and sealed by A. Lynn Miller, P.E.
2. Test Report FTL 20-2108.3 dated 08/24/2020, prepared by Fenestration Testing Lab, signed and sealed by Idalmis Ortega, P.E.; TAS 201, 202 & 203
3. Test Report HTL-0080-0707-09 dated 11/10/09, prepared by Hurricane Test Laboratory, signed and sealed by Vinu J. Abraham, P.E.; TAS 201, 202 & 203
4. Test Report FTL-9547 dated 06/19/17, prepared by Fenestration Testing Lab, signed and sealed by Idalmis Ortega, P.E.; TAS 201, 202 & 203
5. Test Report FTL 19-936 dated 04/15/19, prepared by Fenestration Testing Lab, signed and sealed by Idalmis Ortega, P.E.; TAS 201, 202 & 203
6. Anchor Calculations and Structural Analysis, dated 07/20/20 prepared by manufacturer, and signed and sealed by Anthony Lynn Miller, P.E.

Limitations and Conditions of use:
- Units must be glazed per ASTM E1300-04/09, refer to approval document for glazing details.
- This product is rated to be used in the HVHZ.
- This product is impact resistant and does not require impact protection in wind borne debris regions.
- Frame material to be extruded aluminum 6063-T6.
- Units must be installed in accordance with Approval Document.



SERIES SGD560A IMPACT RESISTANT SLIDING GLASS DOOR, 2 OR 3 TRACK, W/W/O POCKETS

FLORIDA PRODUCT APPROVAL #(N/A)

IMPACT RATING	DESIGN PRESSURE RATING
RATED FOR LARGER & SMALL MISSILE IMPACT RESISTANCE	SEE TABLE A, T-14

1) THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
2) SHUTTERS ARE NOT REQUIRED PER FBC REQUIREMENTS, AS APPLICABLE.
3) 1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.
4) ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
5) A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
6) ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.
7) MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE & ADOPTED STANDARDS.
8) THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT. I.E. LIFE SAFETY OF THE PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.
9) EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

ANCHOR NOTES:

1) SEE TABLE A, THIS SHEET, FOR EMBEDMENT, EDGE DISTANCE, AND SUBSTRATE REQUIREMENTS.
2) WOOD BUCKS DEPICTED AS 1BY ARE LESS THAN 1-1/2" THICK, PROPERLY SECURED 1BY WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE OR CMU. WOOD BUCKS DEPICTED AS 2BY ARE 1-1/2" THICK OR GREATER. 1BY AND 2BY 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.
3) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER THE FBC AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
4) 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 THE SUBSTRATE. IF THE SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

TABLE A:

Anchor Group	Anchor Type	Substrate	Max. Shim Space	Min. Edge Distance	Min. Embedment or Metal Thickness
A	#14 SS SMS or SDS (Min. 2 CSK)	6063-T5 Aluminum	1/2"	1/2"	0.125"
		Steel	1/2"	1/2"	0.105" (12 Ga)
	#14 Steel SMS	Southern Pine (SG = 0.55)	1/2"	0.75"	1-3/8"
B	1/4" HBS Kwik-Con II	Southern Pine (SG = 0.55)	1/2"	1"	2"
		Through Block Into Conc. Of Block	1/2"	2-1/2"	1-1/4"
C	1/4" HBS Kwik-Con II	Concrete (min. 3 ksi)	1/2"	2-1/2"	2"
		Blocks (min. 2 ksi)	1/2"	2-1/2"	2"
	1/4" Ultracon+	Concrete (min. 3 ksi)	1/4"	2-1/2"	1-3/4"
		Hollow CMU (min. 2 ksi)	1/4"	2-1/2"	1-1/4"
D	5/16" Ultracon	Southern Pine (SG = 0.55)	1/2"	1-1/4"	2"
		Through Block Into Concrete	1/2"	2-1/8"	1-1/4"
		Through Block Into Hollow CMU	1/2"	2-1/8"	1-3/4"
E	5/16" Ultracon	Concrete (min. 3 ksi)	1/2"	2-1/8"	1-3/4"
		Grout Filled CMU (min. 2 ksi)	1/2"	2-1/8"	1-3/4"

1) MINIMUM OF 3 THREADS MUST EXTEND BEYOND ANY METAL SUBSTRATE.

2) HOLLOW CMU VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

3) ALL ANCHOR HEAD TYPES ARE APPLICABLE.

4) 1/4" ULTRACON+ ANCHORS ARE LIMITED TO A MAXIMUM OF 1/4" SHIM SPACE. ALL OTHER ANCHORS MAY USE A MAXIMUM OF 1/2" SHIM SPACE.

INSTRUCTIONS:

1) DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
2) DETERMINE DOOR CAPACITY FROM TABLES ON SHEETS 7-10 FOR THE GLASS TYPE AND REINFORCING TO USE.
3) USING CHARTS ON SHEET 11-14 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
4) FOR SIDE BY SIDE DOORS WITH VERTICAL MULLION SELECT 2X6, 2X8 OR 2X10 TUBE FROM CHART ON SHEET 16 WITH LOAD RATING HIGHER THAN REQUIRED. SELECT ANCHORS AS PER STEP 3.
5) THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

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NO CHANGES THIS SHEET

WINDOOR

SERIES SGD560A IMPACT SLIDING GLASS DOOR, 2 TRACK, W/W/O POCKETS

GENERAL NOTES, INSTRUCTIONS

T-01

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SCALE: NTS

DATE: 2/12/2019

DRAWN BY: [illegible]

CHECKED BY: [illegible]

REVISIONS

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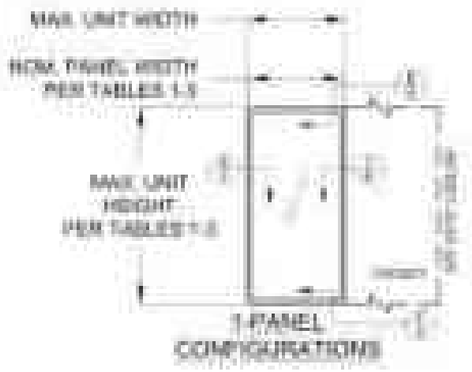
ANTHONY LYNN MILLER

No. 59705

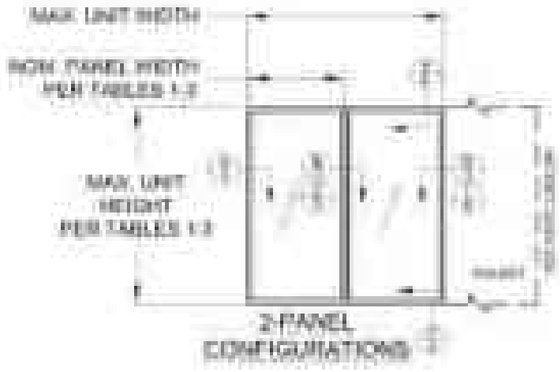
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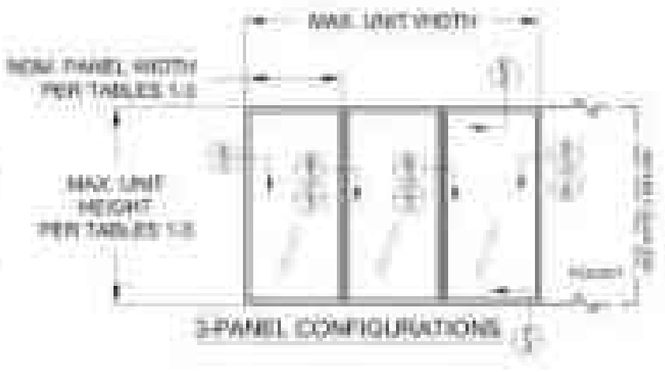
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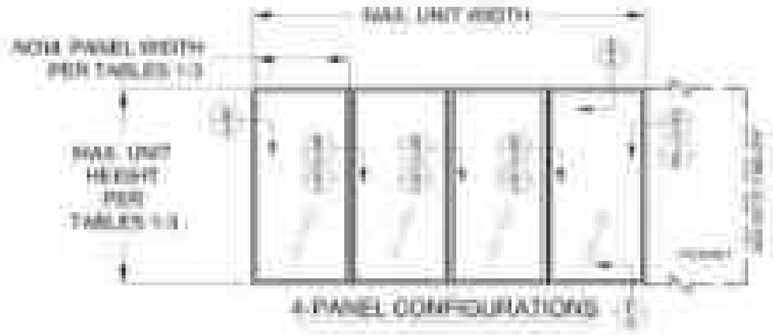
1-PANEL CONFIGURATIONS



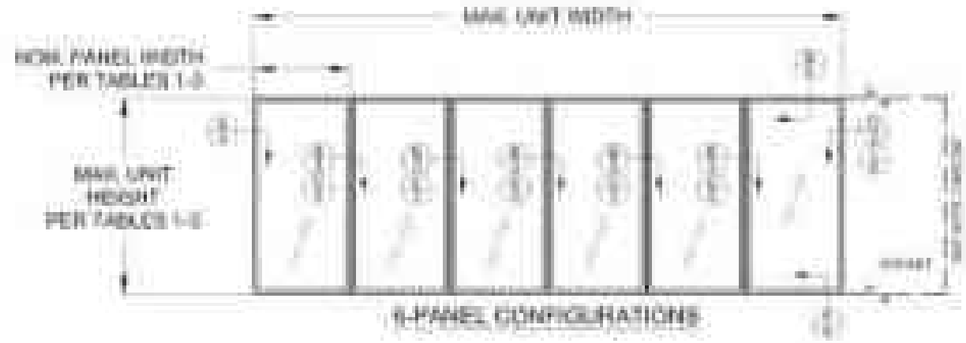
2-PANEL CONFIGURATIONS



3-PANEL CONFIGURATIONS



4-PANEL CONFIGURATIONS



6-PANEL CONFIGURATIONS

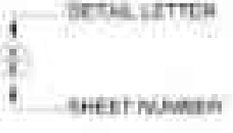


TABLE 1

Frame Width Based on Panel Width 2 Track Configurations				
Panel Width	2 Panel	3 Panel	4 Panel	1 Fixed Panel
24 1/4"	48"	71 1/2"	94 3/4"	24 3/8"
30 1/4"	60"	89 1/2"	118 3/4"	30 3/8"
36 1/4"	72"	107 1/2"	142 3/4"	36 3/8"
42 1/4"	84"	125 1/2"	166 3/4"	42 3/8"
48 1/4"	96"	143 1/2"	190 3/4"	50 3/4"
54 1/4"	108"	161 1/2"	214 3/4"	56 3/8"
60 1/4"	120"	181 1/2"	238 3/8"	62 3/8"

TABLE 2

Frame Width Based on Panel Width 3 Track Configurations		
Panel Width	5 Panel	6 Panel
24 1/4"	165 1/8"	197 1/2"
30 1/4"	87 1/8"	173 1/2"
36 1/4"	205 1/4"	269 1/2"
42 1/4"	229 1/4"	245 1/2"
48 1/4"	141 1/4"	285 1/2"
54 1/4"	209 1/4"	317 1/2"
60 1/4"	177 1/4"	353 1/2"

TABLE 3

Frame Width Based on Panel Width 2 Track Pocket Configurations					
Panel Width	pX, Xp	pXX, XXp	pXXp	pXXXXp	pXXXX
24 1/4"	22 9/16"	43 11/16"	44 1/16"	86 5/8"	80 1/8"
30 1/4"	28 9/16"	55 11/16"	56 1/16"	110 5/8"	114 1/8"
36 1/4"	34 9/16"	67 11/16"	68 1/16"	134 5/8"	138 1/8"
42 1/4"	40 9/16"	79 11/16"	80 1/16"	158 5/8"	162 1/8"
48 1/4"	46 9/16"	91 11/16"	92 1/16"	182 5/8"	186 1/8"
54 1/4"	52 9/16"	103 11/16"	104 1/16"	206 5/8"	210 1/8"
60 1/4"	58 9/16"	115 11/16"	116 1/16"	230 5/8"	234 1/8"

TABLE 4

Frame Width Based on Panel Width 3 Track Pocket Configurations			
Panel Width	pXXX, XXXp	pXXXXXXp	pXXXXXX
24 1/4"	65 1/4"	128 1/8"	116 7/16"
30 1/4"	81 1/4"	160 1/8"	164 7/16"
36 1/4"	97 1/4"	202 1/8"	205 7/16"
42 1/4"	113 1/4"	237 1/8"	241 7/16"
48 1/4"	137 1/4"	273 1/8"	277 7/16"
54 1/4"	155 1/4"	309 1/8"	313 7/16"
60 1/4"	173 1/4"	345 1/8"	349 7/16"

CONFIGURATIONS NOTES:

1) ALL CONFIGURATIONS SHOWN ARE ALSO AVAILABLE AS POCKET CONFIGURATIONS AT EITHER OR BOTH JAMB LOCATIONS. EXAMPLE: 4-PANEL XOXX IN POCKET (p) CONFIGURATION CAN BE pXOXXp, pXOXX OR XOOOp. OXXX IN POCKET CONFIGURATION CAN BE OXXXp.

2) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

3) FOR FRAME AND PANEL WIDTHS, SEE TABLES 1-4.

4) FOR FRAME AND PANEL WIDTH FORMULAS, SEE SHEET 2.

"O" = OPERABLE PANEL
"X" = INOPERABLE PANEL
"p" = POCKET

OLD WIDTH = PANEL WIDTH - 6"
OLD HEIGHT = DOOR HEIGHT - 13-5/16"
PANEL HEIGHT = DOOR HEIGHT - 3-9/16"

MAX. 3-TRACK FRAME DOOR AREA NOT TO EXCEED 79.0 SQ. FT. (EXCLUDING ANY POCKETS)

MAX. 2-TRACK FRAME DOOR AREA NOT TO EXCEED 44.1 25 SQ. FT FOR LOADS UP TO 135 PSF 39.1 56 SQ. FT FOR LOADS ABOVE 135 PSF

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THIS DRAWING IS NOT VALID UNLESS SIGNED AND SEALED

A	10/29/20	ADDED PRODUCT
	11/4/20	ADDED
	11/5/20	ADDED

PREPARED BY: A. LYNN MILLER
WINDOOR TECHNOLOGY, INC.
TAMPA, FL 33619
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WINDOOR

PROJECT: 2020 FBC 8TH EDITION
HURRICANE IMPACT DOORS
ALUMINUM SWING DOOR SYSTEMS
SINGLE DOOR - FIXED PANEL CONFIGURATIONS

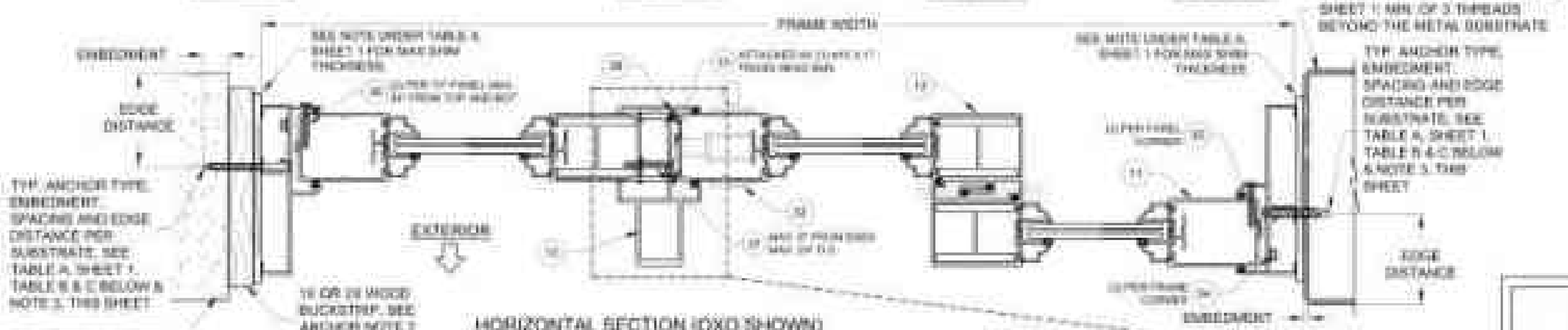
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DETAIL A1

DETAIL B1

DETAIL C1

DETAIL D1

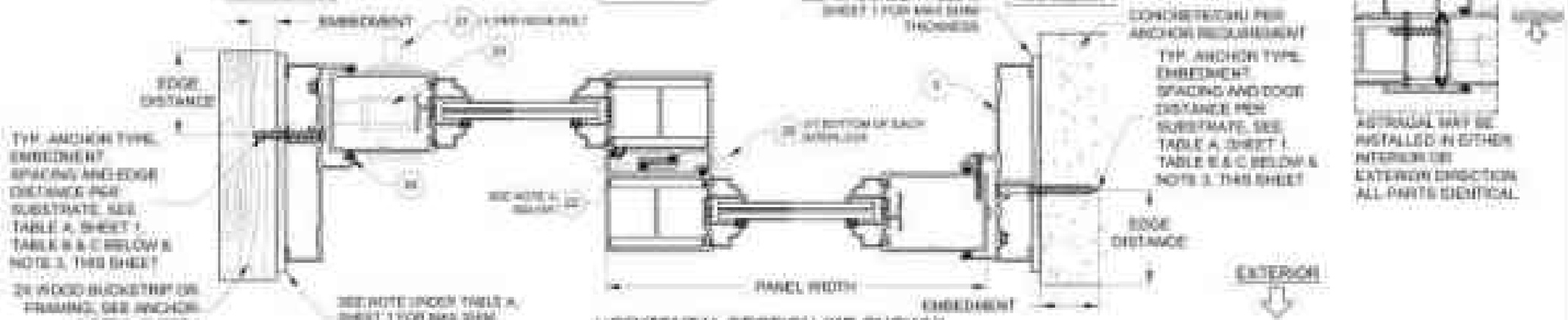


HORIZONTAL SECTION (OXO SHOWN)

DETAIL A2

DETAIL C2

DETAIL D2



HORIZONTAL SECTION (XO SHOWN)

ASTRAGAL MAY BE INSTALLED IN EITHER INTERIOR OR EXTERIOR DIRECTION ALL PARTS IDENTICAL

NOTES:
1) DETAILS APPLY TO 2 AND 3 TRACK CONFIGURATIONS.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) SEE TABLES B & C, THIS SHEET, FOR MAXIMUM JAMB ANCHOR SPACING. FOR ANCHOR QUANTITIES, SEE SHEETS 15 & 16.
4) SEE SHEETS 7-10 FOR REINFORCEMENT REQUIREMENTS. REINFORCEMENT LENGTH IS EQUAL TO THE FRAME HEIGHT - 1/4".
5) 2 TRACK ANCHORAGE SHOWN - SEE SHEET 16 FOR 3 TRACK ANCHORAGE

TABLE B

Maximum Jamb Anchor Spacing - 2 Track			
Shim Space	Anchor Group A	Anchor Group B & C	Anchor Group D & E
1/8"	18-1/2"	18-1/2"	18-3/4"
3/8"	-	18-1/2"	18-1/2"
1/2"	-	9-1/4"	9-1/4"

TABLE C

Maximum Jamb Anchor Spacing - 3 Track			
Shim Space	Anchor Group A	Anchor Group B & C	Anchor Group D & E
1/4"	18-1/2"	18-1/2"	18-1/2"
3/8"	-	18-1/2"	18-1/2"
1/2"	-	9-1/4"	9-1/4"

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DETAIL E1

CONCRETE/CMU PER ANCHOR REQUIREMENT

EDGE DISTANCE

EMBEDMENT

TYP. ANCHOR TYPE, EMBEDMENT & EDGE DISTANCE PER SUBSTRATE. SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET

SEE NOTE UNDER TABLE A, SHEET 1 FOR MAX SHIM THICKNESS

SEE NOTE UNDER TABLE A, SHEET 1 FOR MAX SHIM THICKNESS

14 OR 20 WOOD BUCKSTRIP, SEE ANCHOR NOTE 3, SHEET 1

DAYLIGHT OPENING HEIGHT

FRAME HEIGHT

EXTERIOR

SILL WITH RISER APPROVED FOR WATER RESISTANCE. SEE SHEET 8 FOR CAPACITY

DETAIL F1

3/8" MAX

POURED & HANDMIXED HIGH STRENGTH GROUT: f'c = 5000 PSI MIN (NON-METALLIC) WITH BONDING AGENT NOT BY WINDOOR. MUST TRANSFER SHEAR LOADS TO STRUCTURE

TYP. ANCHOR TYPE, EMBEDMENT & EDGE DISTANCE PER SUBSTRATE. SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET

EMBEDMENT

EDGE DISTANCE

CONCRETE/CMU PER ANCHOR REQUIREMENT

DETAIL E2

(2) WOOD BUCKSTRIP OR FRAMING. SEE ANCHOR NOTE 3, SHEET 1

EDGE DISTANCE

EMBEDMENT

EXTERIOR

EMBEDMENT

EDGE DISTANCE

DETAIL F2

DETAIL E3

CONCRETE/CMU PER ANCHOR REQUIREMENT

EDGE DISTANCE

EMBEDMENT

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE. SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET

SEE NOTE UNDER TABLE A, SHEET 1 FOR MAX SHIM THICKNESS

DETAIL E4

APPROVED MULLION, FBC COMPLIANT ALUMINUM/STEEL FRAMING OR STEEL STUD, MAY BE VERTICAL OR HORIZONTAL. SEE SUBSTRATE PROPERTIES TABLES A AND B, SHEET 1

EDGE DISTANCE

EMBEDMENT

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE. SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET

SEE NOTE UNDER TABLE A, SHEET 1 FOR MAX SHIM THICKNESS

NOTES:
1) DETAILS APPLY TO 2 AND 3 TRACK CONFIGURATIONS
2) REFER TO ANCHOR NOTES, SHEET 1
3) SEE SHEETS 10 & 10 FOR ANCHOR LOCATION & SPACING. FOR ANCHOR CLUSTER QUANTITIES, SEE SHEETS 11-14.
4) 2 TRACK ANCHORAGE SHOWN - SEE SHEET 10 FOR 3 TRACK ANCHORAGE

NO CHANGES THIS SHEET

WINDOOR

3000SSA ALUM. SLIDING GLASS DOOR

INSTALLATION - VERTICAL & HORIZONTAL

LOGAN POOPA

ISSUED

SHEET 9 OF 14

WINDOOR

ANTHONY LYNN MILLER

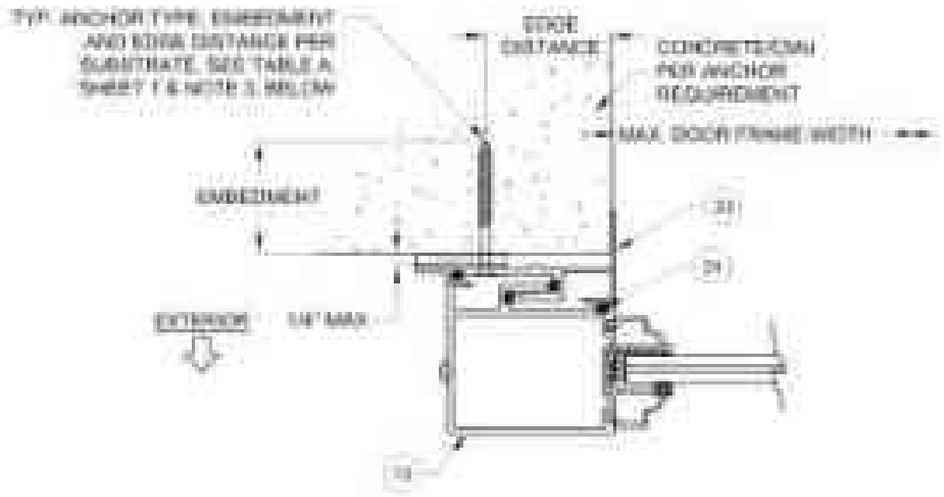
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DETAIL I1



DETAIL I2

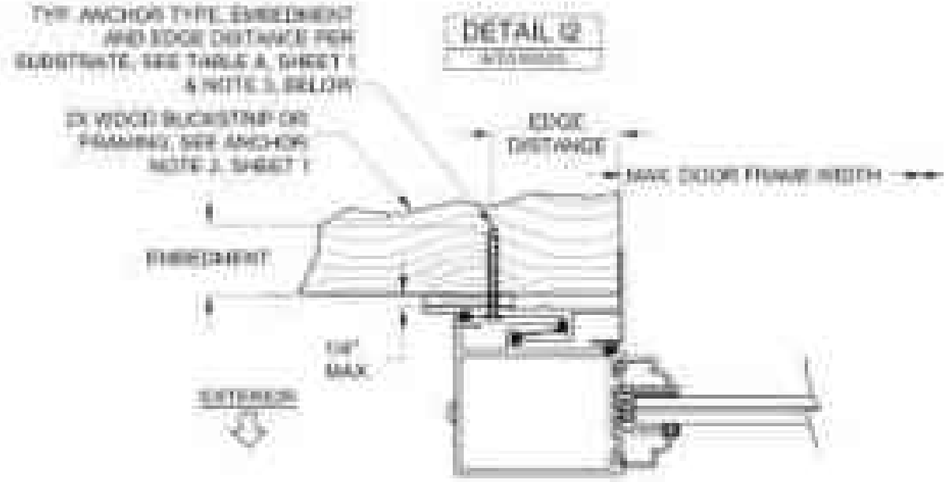


TABLE I1

2 Track Pocket Hook Anchor Capacity - PSF [1] [2]												
Anchor Type	Substrate	Min. Embedment	Min. Edge Dist.	Panel Widths								
				30-1/8"		42-1/8"		48-1/4"		54-1/2"		60-1/4"
				Ext. [3]	Int. [3]	Ext. [3]	Int. [3]	Ext. [3]	Int. [3]	Ext. [3]	Int. [3]	Ext. [3]	Int. [3]
1/4" Ultrascrew	Masonry	2-1/4"	3"	93.8	93.8	80.0	80.0	67.5	67.5	57.5	57.5	50.6	39.6
	Concrete	2-1/4"	3"	180.0	180.0	107.5	180.0	135.0	135.0	135.0	107.5	107.5	107.5
#14 SMS (Gr. 2 or Gr. 5 DR)	Wood	1-1/2"	3/8"	120.0	140.0	120.0	140.0	120.0	122.5	116.5	116.5	104.5	104.5

TABLE I2

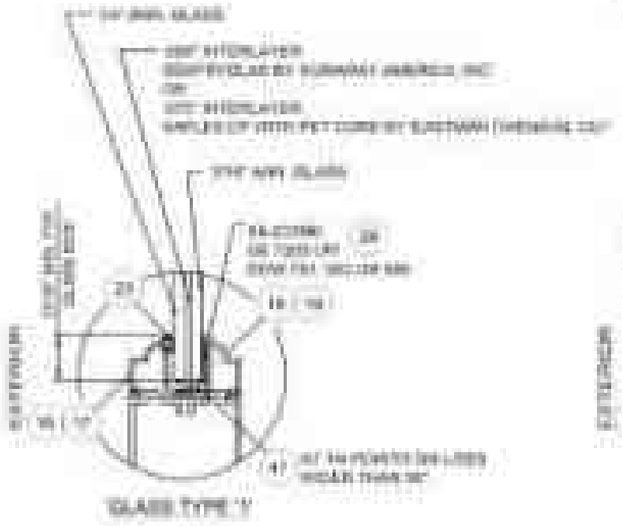
2 Track Pocket Hook Anchor Capacity - PSF [1] [2]								
Anchor Type	Substrate	Min. Embedment	Min. Edge Dist.	Panel Widths				
				30-1/8"	42-1/8"	48-1/4"	54-1/4"	60-1/4"
1/4" Ultrascrew	Masonry	2-1/4"	3"	93.8	67.5	67.5	57.5	39.6
	Concrete	2-1/4"	3"	180.0	180.0	107.5	222.5	107.5
#14 SMS (Gr. 2 or Gr. 5 DR)	Wood	1-1/4"	3/4"	140.0	140.0	131.0	116.5	104.5

NOTES:
1) DETAILS APPLY TO 2 AND 3 TRACK CONFIGURATIONS.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) SEE SHEETS 15 & 16 FOR ANCHOR LOCATION & SPACING.
4) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
5) POCKET HOOK ANCHOR CAPACITY VALUES IN TABLES 5 & 6, THIS SHEET, ARE FOR 12" TYP. ANCHOR SPACING. MULTIPLY CAPACITY BY 2 FOR 8" TYP. ANCHOR SPACING.

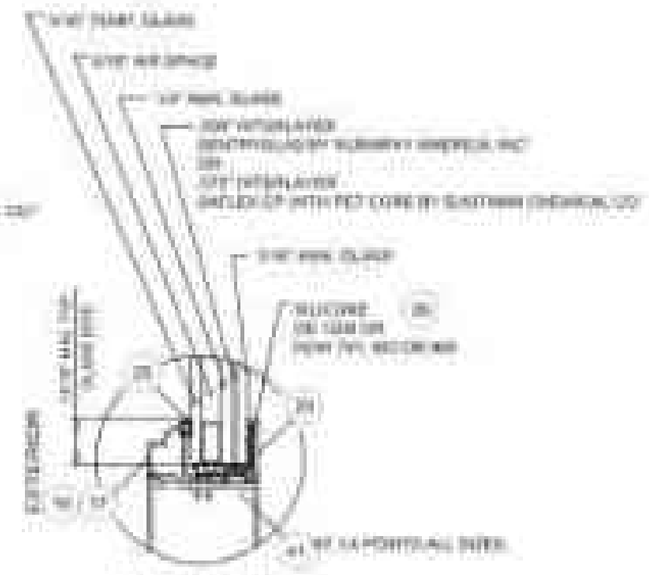
WINDOOR



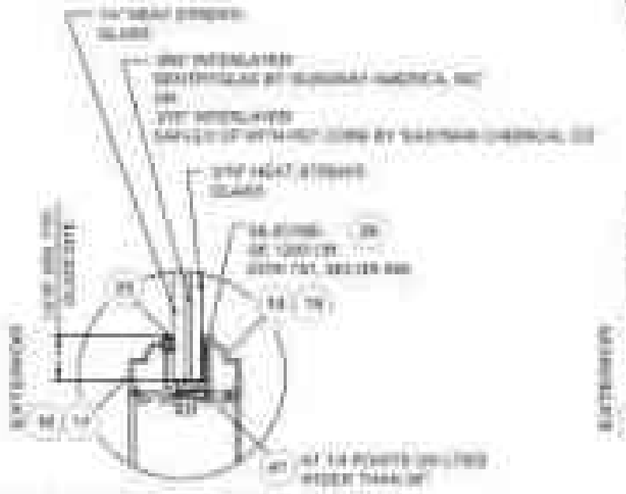
GLAZING OPTIONS



GLASS TYPE 'I'

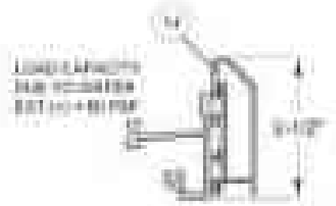


GLASS TYPE 'IX'



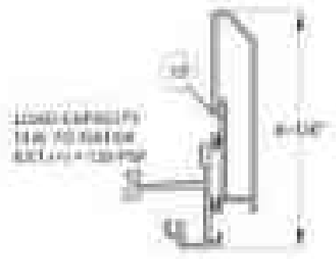
GLASS TYPE 'J' (W/ENTRYGLAS INTERLAYER)
GLASS TYPE 'S' (NO/GLASS OF INTERLAYER)

GLASS TYPE 'JX'

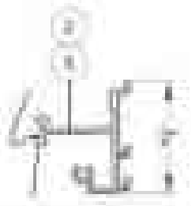








POSITIVE DESIGN PRESSURES SHOWN IN CHARTS ON SHEETS [ ] MAY BE USED FOR DOORS THAT ARE NOT REQUIRED TO MEET WATER INFILTRATION RESISTANCE ON WHERE THE DOOR IS PROTECTED WITH AN OVERHANG PER FIG. 1 BELOW. OTHERWISE, THE POSITIVE DESIGN PRESSURE SHALL BE LIMITED TO THE POSITIVE DP RATING FOR EACH SILL RISER ABOVE.



SILL WITH ETT RISER IS NOT APPROVED FOR WATER INFILTRATION RESISTANCE AND MAY ONLY BE USED WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR IF THE DOOR IS PROTECTED WITH AN OVERHANG PER FIG. 1 BELOW. MAX. POSITIVE DESIGN PRESSURE FOR THIS SILL IS THE SAME AS SHOWN IN TABLES [ ] IN



FIG. 1
OH LENGTH
DOOR ASSEMBLIES INSTALLED WHERE THE OVERHANG LENGTH IS EQUAL TO OR GREATER THAN THE OVERHANG HEIGHT ARE EXEMPTED FROM WATER INFILTRATION RESISTANCE

NOTE:
5/16" AND 1/4" PIECES OF GLASS ON THE 1/2" LAMINATED UNIT ARE INTERCHANGEABLE.
(EX: 3/16" + 1/4" SB 1/4" + 5/16") LIMIT DOOR PANEL AREA TO 43.2 SQ. FT.

FOR PANEL AREAS > 43.2 SQ. FT. LAMINATED PLIES MUST BE 1/4" + 3/16" (AS SHOWN IN DETAILS)

NO CHANGES THIS SHEET

4	10/20/23	JLM

WINDOOR

PREPARED BY: ANTHONY LYNN MILLER
CITY: TECHNOLOGY | STATE:
ADDRESS:
PHONE:

SLIDING ALUM. BUILDING GLASS DOOR SYSTEM

LOGAN FOREST

1	1/16/23	

GLASS & SILL RISER DETAILS

SCALE:	6" = 1'-0"
DRAWN:	
SHEET:	6 OF 24

ANTHONY LYNN MILLER
LICENSED
No. 68700
STATE OF
PROFESSIONAL ENGINEER

ANTHONY LYNN MILLER, P.E.
P.E. # 68700

TABLE 7

Glass Types 1 & 1A	Design Load Capacity - PSF (Glass)														
	Panel Width / Panel (NO) Width														
2 Track Configuration (NO) Reinforcement	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Glass Height	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80"	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-75.5	+/-75.5	+/-73	+/-60.5	+/-52.5	+/-60.5	+/-60.5
84"	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-75.5	+/-75.5	+/-73	+/-60.5	+/-57.5	+/-60.5	+/-60.5
90"	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-75.5	+/-75.5	+/-73	+/-60.5	+/-57.5	+/-60.5	+/-60.5
96"	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-75.5	+/-75.5	+/-73	+/-60.5	+/-57.5	+/-60.5	
102"	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-75.5	+/-75.5	+/-73	+/-60.5	+/-57.5		
108"	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-75.5	+/-75.5	+/-73	+/-60.5			
114"	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-75.5	+/-75.5	+/-73				
120"	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-75.5	+/-75.5					
126"	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-75.5						
132"	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-60	+/-75.5						

TABLE 8

Glass Type - 2	Design Load Capacity - PSF (Glass)														
	Panel Width / Panel (NO) Width														
2 Track Configuration (NO) Reinforcement	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Glass Height	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
80"	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]
84"	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]
90"	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]
96"	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]
102"	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]
108"	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]
114"	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]
120"	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]
126"	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]
132"	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]

| TRACK GLASS CAPACITY CHARTS

NOTES:
CAPACITIES SHOWN IN CHART ARE FOR DOORS USING 6-1/4" SILL. [illegible]

OBTAIN ANCHOR TYPE FROM SHEET 1 AND CONFIGURATION TO USE FROM ANCHOR CHARTS ON SHEETS 11-14

MULLION SIZE AND CAPACITY TO BE OBTAINED FROM CHARTS ON SHEET 15

LOWEST APPLICABLE VALUE FROM THE ABOVE WILL APPLY TO CONDITION REVIEWED.

GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-04 STANDARD.

WINDOOR
[illegible]
[illegible]
[illegible]

TABLE 9

Glass Type: S1	Design Load Capacity - PSF (Short)															
	Panel Width / Panel Ht Guide															
2 Track Configuration w/ Rods/Interlock																
Panel Heights	80"															
	84"															
	88"															
	92"															
	96"															
	100"															
	104"															
	108"															
	112"															
	116"															
	120"															

TABLE 10

Glass Type: S2	Design Load Capacity - PSF (Short)															
	Panel Width / Panel Ht Guide															
2 Track Configuration w/ Rods/Interlock																
Panel Heights	80"															
	84"															
	88"															
	92"															
	96"															
	100"															
	104"															
	108"															
	112"															
	116"															
	120"															

2 TRACK GLASS CAPACITY CHARTS

NOTES:
CAPACITIES SHOWN IN CHART ARE FOR DOORS USING A 1/4" TILL WIDER. APPROPRIATE GLASS THICKNESS TO BE SELECTED PER MAX POSITIVE DESIGN PRESSURE. SEE DETAILS ON SHEET 9.

OBTAIN ANCHOR TYPE FROM SHEET 1 AND CONFIGURATION TO USE FROM ANCHOR CHARTS ON SHEETS 11-14.

MULLION SIZE AND CAPACITY TO BE OBTAINED FROM CHARTS ON SHEET 16.

LOWEST APPLICABLE VALUE FROM THE ABOVE TABLES APPLY TO CONFIGURATION REQUIRED.

GLASS CAPACITIES ON THIS SHEET ARE BASED ON METAL STRENGTH ONLY. SEE DETAILS.

COMPLIANCE TO MATERIAL CODES

DESIGNED BY	
DRAWN BY	
CHECKED BY	
DATE	
SCALE	
JOB NO.	
SHEET NO.	8 OF 8
REVISIONS	

WINDOOR

HURRICANE ALUM. SLIDING GLASS DOOR, IMPACT RESISTANT

2 TRACK GLASS CAPACITY - 6'-0" - 8'-0" HIGH

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF
PROFESSIONAL ENGINEER

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

TABLE 11

Glass Types: L, M, F & R	Design Load Capacity - PSF (Glass)														
	Panel Width / Panel Stiff Width														
# Track Configuration and Glass Arrangement															
Frame Heights															

TABLE 12

Glass Type: SR	Design Load Capacity - PSF (Glass)														
	Panel Width / Panel Stiff Width														
# Track Configuration and Glass Arrangement															
Frame Heights															

5-TRACK GLASS CAPACITY CHARTS

NOTES:

WINDOOR
ARCHITECTURAL LYNN MILLER
LICENSE
No. 28700
STATE OF
PROFESSIONAL ENGINEER

TABLE 13

Glass Type: 2	Design Load Capacity - PSF (Sloped)															
	Panel Width / Panel Height															
Pitch Configuration / Roof Angle																
Flat																
1/2:12																
2:12																
3:12																
4:12																
5:12																
6:12																
7:12																
8:12																
9:12																
10:12																
11:12																
12:12																
13:12																
14:12																
15:12																
16:12																
17:12																
18:12																
19:12																
20:12																
21:12																
22:12																
23:12																
24:12																

TABLE 14

Glass Type: 2.1	Design Load Capacity - PSF (Sloped)															
	Panel Width / Panel Height															
Pitch Configuration / Roof Angle																
Flat																
1/2:12																
2:12																
3:12																
4:12																
5:12																
6:12																
7:12																
8:12																
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21:12																
22:12																
23:12																
24:12																

5 TRACK GLASS CAPACITY CHARTS

W/ REINFORCEMENTS: GLASS TYPES 2 & 2.1
SEE GLASS DETAILS IN SHEET 6

NOTES:
APPROPRIATE SILL TRACK TO BE SELECTED FOR 6AM. POSITIVE SEISMIC PRESSURE. SEE DETAILS ON SHEET 6.

OBTAIN ANCHOR TYPE FROM SHEET 7 AND CONFIGURATION TO USE FROM ANCHOR CHARTS ON SHEETS 10-13.

MULLION SIZE AND CAPACITY TO BE OBTAINED FROM CHARTS ON SHEET 7A

LOWEST APPLICABLE VALUE FROM THE ABOVE MILL APPLIED CORRECTION INCREASED

GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1996-09 (I) SEC. 6.3.4(1).

COMPLIANCE TO MULTIPLE CODES

DESIGNED BY	
DRAWN BY	
CHECKED BY	
DATE	
SCALE	
JOB NO.	
SHEET NO.	

WINDOOR

ANTHONY LYNN MILLER
LICENSED
No. 54705
STATE OF
ILLINOIS
PROFESSIONAL ENGINEER
ANTHONY LYNN MILLER, P.E.
P.E. LICENSE

TABLE 15

PANEL WIDTH (inches)	HOLE HEIGHT (inches)	ANCHOR TYPE 'A' 1/2" HIGH GRADE (SCREW #)			ANCHOR TYPE 'B' (SCREW #)		ANCHOR TYPE 'A' & 'B' 5/8" HIGH GRADE (SCREW #)			ANCHOR TYPE 'A' & 'B' 1/2" HIGH GRADE (SCREW #)				ANCHOR TYPE 'A' 1/2" HIGH GRADE (SCREW #)		
		A	B	B	A	B	A	B	B	A	B	B	B	A	B	B
24–1/4	84	140.0	–	–	140.0	–	140.0	–	–	140.0	–	–	–	140.0	–	–
30–1/4		140.0	140.0	–	140.0	140.0	140.0	140.0	–	133.3	140.0	–	–	140.0	140.0	–
36–1/4		140.0	140.0	–	140.0	140.0	140.0	140.0	–	122.2	140.0	–	–	140.0	140.0	–
42–1/4		140.0	140.0	–	140.0	140.0	139.8	140.0	–	109.1	140.0	–	–	140.0	140.0	–
48–1/4		140.0	140.0	140.0	140.0	140.0	114.8	140.0	140.0	95.0	131.7	138.0	138.0	140.0	140.0	138.0
54–1/4		138.0	138.0	138.0	138.0	134.0	104.3	134.0	134.0	81.8	104.7	124.0	124.0	138.0	134.0	124.0
60–1/4		118.1	118.1	118.1	118.1	118.1	93.4	118.1	118.1	73.7	93.7	118.1	118.1	118.1	118.1	118.1
24–1/4	84	140.0	–	–	140.0	–	140.0	–	–	140.0	–	–	–	140.0	–	–
30–1/4		140.0	140.0	–	140.0	140.0	140.0	140.0	–	116.8	140.0	–	–	140.0	140.0	–
36–1/4		140.0	140.0	–	140.0	140.0	140.0	140.0	–	116.7	140.0	–	–	140.0	140.0	–
42–1/4		140.0	140.0	–	140.0	140.0	137.1	140.0	–	100.1	133.8	–	–	140.0	140.0	–
48–1/4		138.7	140.0	140.0	140.0	140.0	111.8	140.0	140.0	87.7	114.8	140.0	140.0	138.2	140.0	140.0
54–1/4		130.0	134.8	134.8	134.8	134.8	98.8	134.8	134.8	78.8	104.8	134.8	134.8	131.8	134.8	134.8
60–1/4		118.4	118.1	118.1	118.1	118.1	88.1	118.1	118.1	70.8	93.8	118.1	118.1	118.1	118.1	118.1
24–1/4	84	140.0	–	–	140.0	–	140.0	–	–	139.7	–	–	–	140.0	–	–
30–1/4		140.0	140.0	–	140.0	140.0	138.1	140.0	–	128.7	140.0	–	–	140.0	140.0	–
36–1/4		140.0	140.0	–	140.0	140.0	138.2	140.0	–	108.9	140.0	–	–	140.0	140.0	–
42–1/4		134.0	140.0	–	138.0	140.0	116.7	140.0	–	93.4	124.8	–	–	140.0	140.0	–
48–1/4		116.8	140.0	140.0	138.0	140.0	114.8	138.0	140.0	81.8	109.1	138.0	138.0	137.1	140.0	140.0
54–1/4		104.8	108.0	108.0	108.0	108.0	91.8	108.0	108.0	72.8	97.0	108.0	108.0	111.1	108.0	108.0
60–1/4		92.7	118.1	118.1	118.1	118.1	85.0	118.1	118.1	65.5	87.4	109.0	118.1	101.8	118.1	118.1
24–1/4	84	140.0	–	–	140.0	–	140.0	–	–	137.0	–	–	–	140.0	–	–
30–1/4		140.0	140.0	–	140.0	140.0	139.5	140.0	–	133.3	140.0	–	–	140.0	140.0	–
36–1/4		140.0	140.0	–	140.0	140.0	139.6	140.0	–	122.1	138.1	–	–	140.0	140.0	–
42–1/4		139.0	140.0	–	139.0	140.0	111.5	140.0	–	97.8	113.8	–	–	139.1	140.0	–
48–1/4		126.8	140.0	140.0	132.1	140.0	97.4	139.4	140.0	76.7	102.3	127.8	138.0	118.0	140.0	138.0
54–1/4		99.8	129.0	129.0	111.0	129.0	86.8	115.5	129.0	68.2	91.0	113.7	124.8	106.0	129.0	124.8
60–1/4		88.5	112.1	112.1	103.8	112.1	78.0	104.0	112.1	61.4	81.8	102.4	112.1	95.0	112.1	112.1
24–1/4	102	140.0	–	–	140.0	–	140.0	–	–	119.7	–	–	–	140.0	–	–
30–1/4		139.8	140.0	–	140.0	140.0	131.8	140.0	–	98.0	119.3	–	–	140.0	140.0	–
36–1/4		138.0	140.0	–	138.0	140.0	112.0	140.0	–	88.1	108.1	–	–	140.0	140.0	–
42–1/4		119.7	140.0	–	119.0	140.0	104.7	139.6	–	83.4	109.8	–	–	139.1	140.0	–
48–1/4		108.0	138.0	140.0	108.0	140.0	91.7	103.0	140.0	73.0	98.7	122.0	140.0	113.0	140.0	140.0
54–1/4		96.0	121.0	124.8	116.0	124.8	80.5	108.7	124.8	65.0	86.8	107.0	124.8	99.8	124.8	124.8
60–1/4		86.0	108.0	108.0	86.9	108.0	72.6	87.6	108.0	57.8	77.1	96.4	108.0	88.6	108.0	108.0
24–1/4	102	140.0	–	–	138.0	–	140.0	–	–	134.0	–	–	–	140.0	–	–
30–1/4		138.0	140.0	–	138.0	140.0	119.1	140.0	–	95.9	119.8	–	–	140.0	140.0	–
36–1/4		138.4	140.0	–	140.0	140.0	119.2	140.0	–	80.7	101.0	–	–	140.0	140.0	–
42–1/4		119.2	140.0	–	134.1	140.0	98.6	121.8	–	77.8	102.8	–	–	121.0	140.0	–
48–1/4		98.5	138.7	140.0	117.4	140.0	86.8	115.4	140.0	68.2	90.9	113.6	136.4	100.9	140.0	140.0
54–1/4		85.8	108.0	108.0	104.4	108.0	77.8	103.7	108.0	60.8	80.9	101.2	108.0	84.2	108.0	108.0
60–1/4		77.3	103.6	108.0	86.0	108.0	69.5	82.5	108.0	54.6	72.8	91.0	108.0	84.8	108.0	108.0
24–1/4	114	140.0	–	–	140.0	–	139.5	–	–	137.1	–	–	–	140.0	–	–
30–1/4		131.5	140.0	–	140.0	140.0	139.5	140.0	–	95.6	120.5	–	–	133.5	140.0	–
36–1/4		121.7	140.0	–	140.0	140.0	139.2	140	–	86.2	114.8	–	–	133.8	140.0	–
42–1/4		109.4	138.0	–	127.0	140.0	93.7	133.9	–	72.8	96.2	–	–	114.0	140.0	–
48–1/4		97.8	127.8	140.0	117.2	140.0	80.8	109.4	139.7	64.8	86.1	107.6	129.2	100.9	132.8	140.0
54–1/4		87.3	108.0	116.0	98.8	116.0	72.0	87.0	116.0	57.6	76.8	96.0	116.0	84.3	116.0	116.0
60–1/4		73.0	97.8	116.0	86.1	116.0	65.1	87.6	116.0	51.7	69.0	86.2	110.0	86.4	116.0	116.0
24–1/4	120	140.0	–	–	140.0	–	139.5	–	–	134.7	–	–	–	140.0	–	–
30–1/4		135.8	140.0	–	140.0	140.0	133.8	140.0	–	94.8	114.3	–	–	134.7	140.0	–
36–1/4		130.8	140.0	–	140.0	140.0	133.7	139.8	–	84.7	108.8	–	–	126.8	140.0	–
42–1/4		98.8	134.8	–	124.7	140.0	88.8	116.7	–	70.1	93.4	–	–	108.8	140.0	–
48–1/4		88.8	118.8	140.0	105.8	140.0	77.8	103.8	138.8	61.8	81.8	103.2	123.7	90.8	127.1	140.0
54–1/4		77.3	103.8	120.0	94.0	120.0	69.8	82.4	120.0	54.8	73.0	97.0	120.0	84.8	120.0	120.0
60–1/4		69.8	93.7	120.0	86.8	120.0	62.8	82.8	120.0	49.1	65.5	87.4	98.3	76.4	101.8	120.0

NOTE:
SEE SHEET 1 FOR ANCHOR TYPES.
ANCHOR CAPACITIES LISTED ON THIS SHEET TO BE USED IN CONJUNCTION WITH CLADDING PRESSURE AND FALLOFF CHARTS IN THIS DOCUMENT.
LOWER APPLICABLE VALUES GOVERN.

2 TRACK HEADSILL ANCHORAGE CAPACITY CHARTS

WINDOOR
WINDOOR INC.
2311 WEST 22ND STREET
SUITE 1000
OAK BROOK, IL 60523
(630) 586-8100

PROJECT
ENGINEERING REPORT
2 TRACK HEADSILL ANCHORAGE TABLES

NO.	DESCRIPTION	DATE
1	ENGINEERING REPORT	12-07-11
2	ENGINEERING REPORT	03/05/20
3	ENGINEERING REPORT	04/15/20

ARTHUR LYNN MILLER
No. 062-060...
STATE OF ILLINOIS
PROFESSIONAL ENGINEER
ARTHUR MILLER P.E.
P.E. # 062-060...

TABLE 1b

PANEL WIDTH (INCHES)	SASH HEIGHT (INCHES)	ANCHOR TYPE 'B' 1/4" SCREW SPACE			ANCH. TYPE 'C' ANCH. TYPE 'D' & 'C' 1/4" SCREW		ANCH. TYPE 'D' & 'C' 1/8" SCREW SPACE			ANCHORS TYPE 'D' & 'C' 1/20" SCREW SPACE			
		CLEAR OF			CLEAR OF		CLEAR OF			CLEAR OF			
		A	F	B	A	F	A	F	B	A	F	B	J1
24"=1'-0"	60"	140.0	-	-	140.0	-	140.0	-	-	140.0	-	-	-
30"=1'-0"		140.0	140.0	-	140.0	140.0	140.0	140.0	-	117.0	140.0	-	-
36"=1'-0"		140.0	140.0	-	140.0	140.0	140.0	140.0	-	117.6	140.0	-	-
42"=1'-0"		140.0	140.0	-	140.0	140.0	138.8	140.0	-	116.8	134.8	-	-
48"=1'-0"		127.8	140.0	140.0	140.0	140.0	112.8	140.0	140.0	88.8	117.8	140.0	140.0
54"=1'-0"		113.5	134.5	134.5	134.5	134.5	100.2	134.5	134.5	78.5	104.8	134.5	134.5
60"=1'-0"		103.3	112.1	112.1	112.1	112.1	90.3	112.1	112.1	70.7	94.0	112.1	112.1
24"=1'-0"	80"	140.0	-	-	140.0	-	140.0	-	-	138.2	-	-	-
30"=1'-0"		140.0	140.0	-	140.0	140.0	140.0	140.0	-	111.2	140.0	-	-
36"=1'-0"		140.0	140.0	-	140.0	140.0	140.0	140.0	-	111.8	140.0	-	-
42"=1'-0"		138.8	140.0	-	140.0	140.0	122.7	140.0	-	98.8	131.8	-	-
48"=1'-0"		121.8	140.0	140.0	140.0	140.0	107.4	140.0	140.0	84.8	113.8	140.0	140.0
54"=1'-0"		108.1	134.5	134.5	134.5	134.5	95.5	134.5	134.5	74.7	99.7	134.5	134.5
60"=1'-0"		97.3	112.1	112.1	112.1	112.1	85.9	112.1	112.1	67.2	89.7	112.1	112.1
24"=1'-0"	96"	140.0	-	-	140.0	-	140.0	-	-	138.2	-	-	-
30"=1'-0"		140.0	140.0	-	140.0	140.0	133.3	140.0	-	106.2	140.0	-	-
36"=1'-0"		140.0	140.0	-	140.0	140.0	122.8	140.0	-	103.4	130.0	-	-
42"=1'-0"		128.9	140.0	-	140.0	140.0	114.8	140.0	-	98.8	118.4	-	-
48"=1'-0"		112.8	140.0	140.0	140.0	140.0	100.3	140.0	140.0	78.8	104.8	134.7	140.0
54"=1'-0"		100.2	124.8	124.8	124.8	124.8	89.2	124.8	124.8	69.8	93.0	119.3	124.8
60"=1'-0"		90.6	112.1	112.1	112.1	112.1	80.5	107.1	112.1	62.8	83.7	104.7	112.1
24"=1'-0"	112"	140.0	-	-	140.0	-	140.0	-	-	131.8	-	-	-
30"=1'-0"		140.0	140.0	-	140.0	140.0	128.8	140.0	-	97.7	138.8	-	-
36"=1'-0"		140.0	140.0	-	140.0	140.0	118.7	102.8	-	87.8	130.0	-	-
42"=1'-0"		121.8	140.0	-	140.0	140.0	107.8	140.0	-	84.8	112.8	-	-
48"=1'-0"		106.7	140.0	140.0	140.0	140.0	94.4	122.7	140.0	73.8	98.4	126.1	140.0
54"=1'-0"		94.8	118.8	118.8	111.8	118.8	83.4	111.0	118.8	65.4	87.2	116.2	118.8
60"=1'-0"		85.1	112.1	112.1	100.6	112.1	75.3	100.4	112.1	58.8	78.5	105.1	112.1
24"=1'-0"	120"	140.0	-	-	140.0	-	140.0	-	-	114.7	-	-	-
30"=1'-0"		140.0	140.0	-	140.0	140.0	117.8	140.0	-	90.0	120.8	-	-
36"=1'-0"		140.0	140.0	-	140.0	140.0	117.8	104.0	-	84.1	112.8	-	-
42"=1'-0"		114.8	140.0	-	139.7	140.0	101.8	139.7	-	76.0	105.8	-	-
48"=1'-0"		100.1	133.4	140.0	118.0	140.0	88.8	118.0	140.0	66.2	88.3	118.3	136.4
54"=1'-0"		88.8	118.7	134.8	105.8	134.5	78.7	104.8	134.5	61.8	82.7	110.4	134.1
60"=1'-0"		80.1	107.0	107.0	94.3	107.0	70.8	84.5	107.0	55.4	73.8	82.4	105.0
24"=1'-0"	144"	140.0	-	-	140.0	-	138.8	-	-	108.4	-	-	-
30"=1'-0"		125.8	140.0	-	140.0	140.0	111.7	140.0	-	88.8	121.8	-	-
36"=1'-0"		125.8	140.0	-	140.0	140.0	111.8	140.0	-	87.0	116.0	-	-
42"=1'-0"		107.8	140.0	-	137.8	140.0	95.8	137.8	-	74.8	99.8	-	-
48"=1'-0"		94.8	126.0	140.0	111.8	140.0	83.8	111.8	139.8	65.4	87.1	116.8	132.7
54"=1'-0"		84.7	112.8	126.0	99.1	126.0	74.8	99.7	126.0	58.1	77.5	88.8	126.0
60"=1'-0"		76.7	100.8	100.8	89.2	100.0	68.0	89.8	100.8	52.3	69.8	87.3	104.7
24"=1'-0"	168"	140.0	-	-	140.0	-	137.8	-	-	108.7	-	-	-
30"=1'-0"		118.0	140.0	-	140.0	140.0	105.8	140.0	-	88.8	118.8	-	-
36"=1'-0"		118.0	140.0	-	140.0	140.0	105.8	140.0	-	82.8	109.8	-	-
42"=1'-0"		102.2	136.2	-	132.8	140.0	90.4	132.8	-	70.7	94.2	-	-
48"=1'-0"		89.5	118.4	140.0	105.8	140.0	79.2	105.8	131.8	61.8	82.4	110.2	125.8
54"=1'-0"		79.8	105.8	105.8	93.8	105.0	70.4	93.8	105.0	55.1	73.4	97.8	105.0
60"=1'-0"		71.7	95.8	95.8	84.3	105.0	63.4	84.2	105.0	49.8	66.4	83.8	99.2
24"=1'-0"	192"	140.0	-	-	140.0	-	134.7	-	-	97.8	-	-	-
30"=1'-0"		113.1	140.0	-	133.7	140.0	100.8	140.0	-	79.2	109.8	-	-
36"=1'-0"		113.0	140.0	-	133.8	140.0	100.7	133.8	-	78.5	104.8	-	-
42"=1'-0"		97.1	129.5	-	114.2	140.0	85.8	114.2	-	67.2	89.8	-	-
48"=1'-0"		85.1	113.8	140.0	100.2	133.3	75.2	100.2	125.2	58.8	78.4	99.8	117.8
54"=1'-0"		75.6	100.8	126.0	89.2	126.0	66.8	89.0	126.0	52.3	69.8	87.2	104.8
60"=1'-0"		68.1	90.8	126.0	80.3	105.0	60.2	80.1	105.0	47.1	62.8	78.5	94.2

3 TRACK HEAD/SILL ANCHORAGE CAPACITY CHARTS

NOTE:
SEE SHEET 1 FOR INSERT TYPES.
ANCHOR CAPACITIES LISTED ON THIS SHEET TO BE USED IN CONJUNCTION WITH REINFORCED INSTALLATION CHARTS IN THIS DOCUMENT.
LOWER APPLICABLE VALUES CONTROL.

NO CHANGES THIS SHEET

DRAWN BY:	
CHECKED BY:	
DATE:	
SCALE:	
SHEET:	4

WINDOOR

TABLE 17

SHEAR LOAD CAPACITY – PSF (LBS/SQ FT WALL/ROOF)

PANEL WIDTH INCHES	DOOR HEIGHT INCHES	ANCHOR TYPE 'A' 1/4" HIGH SPACE CENTERS OF			ANCHOR TYPE 'B' 1/4" HIGH SPACE CENTERS OF			ANCHOR TYPE 'C' 1/4" HIGH SPACE CENTERS OF			ANCHORS TYPE 'B' & 'C' 3/8" HIGH SPACE CENTERS OF				ANCHORS TYPE 'B' & 'C' 1/2" HIGH SPACE CENTERS OF			
		A	B	D	A	B	D	A	B	D	A	B	B	dB	B	B	AB	dB
24	80	170.0	170.0	170.0	167.5	170.0	170.0	170.0	170.0	170.0	158.5	170.0	170.0	170.0	170.0	170.0	170.0	--
30					149.2	170.0	170.0	156.8	170.0	170.0	139.7	170.0	170.0	170.0	141.2	170.0	170.0	--
36					134.0	170.0	170.0	170.0	170.0	170.0	121.1	170.0	170.0	170.0	127.6	170.0	170.0	170.0
42					144.0	170.0	170.0	160.0	170.0	170.0	128.0	170.0	170.0	170.0	132.0	170.0	170.0	170.0
48					126.0	140.0	140.0	140.0	140.0	140.0	113.0	140.0	140.0	140.0	119.4	140.0	140.0	140.0
54					112.0	124.0	124.0	124.0	124.0	124.0	100.0	124.0	124.0	124.0	106.2	124.0	124.0	124.0
60					101.1	112.1	112.1	112.1	112.1	112.1	90.5	112.1	112.1	112.1	84.8	112.1	112.1	112.1
24	84				170.0	170.0	170.0	170.0	170.0	170.0	153.0	170.0	170.0	170.0	157.1	170.0	170.0	--
30					114.1	170.0	170.0	140.0	170.0	170.0	127.3	140.0	170.0	170.0	123.4	147.4	170.0	--
36					144.0	170.0	170.0	170.0	170.0	170.0	134.3	170.0	170.0	170.0	143.1	170.0	170.0	170.0
42					128.1	159.9	159.9	152.7	159.9	159.9	117.0	133.9	159.9	159.9	124.0	132.1	159.9	159.9
48					113.0	140.0	140.0	133.7	140.0	140.0	103.9	119.0	140.0	140.0	110.3	131.6	140.0	140.0
54					99.9	124.9	124.9	118.4	124.9	124.9	89.7	116.6	124.9	124.9	95.6	117.6	124.9	124.9
60					89.8	112.1	112.1	107.1	112.1	112.1	80.8	107.7	112.1	112.1	84.5	108.9	112.1	112.1
24	96				156.0	170.0	170.0	166.3	170.0	170.0	133.4	170.0	170.0	170.0	147.3	170.0	170.0	--
30					111.9	167.9	170.0	133.3	170.0	170.0	120.8	130.8	170.0	170.0	116.1	137.9	170.0	--
36					140.0	170.0	170.0	166.9	170.0	170.0	123.0	147.8	170.0	170.0	131.9	144.2	170.0	170.0
42					123.1	156.8	156.8	146.1	156.8	156.8	108.0	144.0	156.8	156.8	113.7	140.8	156.8	156.8
48					109.3	140.0	140.0	129.7	140.0	140.0	94.0	128.1	140.0	140.0	98.1	123.9	140.0	140.0
54					97.6	124.9	124.9	115.8	124.9	124.9	84.1	115.1	124.9	124.9	87.8	118.7	124.9	124.9
60					87.8	112.1	112.1	104.2	112.1	112.1	75.7	103.2	112.1	112.1	79.0	84.8	112.1	112.1
24	108				151.3	165.0	165.0	165.0	165.0	165.0	139.1	165.0	165.0	165.0	139.8	165.0	165.0	--
30					108.3	162.6	165.0	129.1	165.0	165.0	118.0	140.0	165.0	165.0	124.9	140.0	165.0	--
36					135.7	165.0	165.0	161.6	165.0	165.0	118.0	140.0	165.0	165.0	122.4	140.0	165.0	165.0
42					119.1	152.0	152.0	141.9	152.0	152.0	103.6	138.4	152.0	152.0	107.9	140.0	152.0	152.0
48					105.9	135.6	135.6	126.1	135.6	135.6	90.2	123.0	135.6	135.6	94.2	119.0	135.6	135.6
54					94.5	121.0	121.0	112.6	121.0	121.0	80.8	110.6	121.0	121.0	84.3	114.0	121.0	121.0
60					85.1	108.6	108.6	101.3	108.6	108.6	72.7	99.2	108.6	108.6	75.9	102.6	108.6	108.6
24	120				147.0	165.0	165.0	165.0	165.0	165.0	134.9	165.0	165.0	165.0	135.6	165.0	165.0	--
30					105.1	157.6	165.0	125.2	165.0	165.0	114.4	135.8	165.0	165.0	121.1	135.8	165.0	--
36					131.6	165.0	165.0	156.7	165.0	165.0	114.4	135.8	165.0	165.0	118.7	135.8	165.0	165.0
42					115.5	147.4	147.4	137.6	147.4	147.4	100.4	134.1	147.4	147.4	104.6	135.8	147.4	147.4
48					102.7	131.5	131.5	122.3	131.5	131.5	87.5	119.2	131.5	131.5	91.3	115.3	131.5	131.5
54					92.0	117.3	117.3	109.1	117.3	117.3	78.3	107.2	117.3	117.3	81.7	110.9	117.3	117.3
60					82.8	105.6	105.6	98.2	105.6	105.6	70.5	96.1	105.6	105.6	73.6	99.4	105.6	105.6
24	132				143.5	165.0	165.0	165.0	165.0	165.0	131.7	165.0	165.0	165.0	132.4	165.0	165.0	--
30					102.6	153.8	165.0	122.2	165.0	165.0	111.7	132.6	165.0	165.0	118.2	132.6	165.0	--
36					128.4	165.0	165.0	152.9	165.0	165.0	111.7	132.6	165.0	165.0	115.9	132.6	165.0	165.0
42					112.7	143.9	143.9	134.3	143.9	143.9	98.0	130.9	143.9	143.9	102.1	132.6	143.9	143.9
48					100.2	128.4	128.4	119.4	128.4	128.4	85.4	116.4	128.4	128.4	89.1	112.6	128.4	128.4
54					89.8	114.5	114.5	106.5	114.5	114.5	76.4	104.6	114.5	114.5	79.8	108.3	114.5	114.5
60					80.8	103.1	103.1	95.9	103.1	103.1	68.8	93.8	103.1	103.1	71.8	97.1	103.1	103.1
24	144				139.9	165.0	165.0	165.0	165.0	165.0	128.4	165.0	165.0	165.0	129.1	165.0	165.0	--
30					100.0	149.9	165.0	119.1	165.0	165.0	108.9	129.2	165.0	165.0	115.2	129.2	165.0	--
36					125.1	165.0	165.0	149.0	165.0	165.0	108.9	129.2	165.0	165.0	113.0	129.2	165.0	165.0
42					109.8	140.2	140.2	130.9	140.2	140.2	95.5	127.6	140.2	140.2	99.5	129.2	140.2	140.2
48					97.6	125.1	125.1	116.3	125.1	125.1	83.2	113.4	125.1	125.1	86.8	109.7	125.1	125.1
54					87.5	111.6	111.6	103.8	111.6	111.6	74.4	101.9	111.6	111.6	77.8	105.5	111.6	111.6
60					78.8	100.5	100.5	93.4	100.5	100.5	67.0	91.4	100.5	100.5	69.9	94.6	100.5	100.5

3 TRACK HEADSILL ANCHORAGE CAPACITY CHARTS

NOTE:
SEE SHEET 1 FOR MAXIMUM PANEL
ANCHOR CAPACITIES LISTED ON THIS
SHEET TO BE USED IN CONJUNCTION
WITH ALLOWABLE WIDTHS AND WALL/DR
CHARTS IN THIS DOCUMENT.
LOWER APPLICABLE VALUES CONTROL

NO.	DESCRIPTION	DATE
1	ADDED 'A' ANCHOR	4/1/2011
2	ADDED 'C' ANCHOR	4/1/2011
3	ADDED 'B' ANCHOR	4/1/2011
4	ADDED 'B' & 'C' ANCHOR	4/1/2011
5	ADDED 'B' & 'C' ANCHOR	4/1/2011
6	ADDED 'B' & 'C' ANCHOR	4/1/2011
7	ADDED 'B' & 'C' ANCHOR	4/1/2011
8	ADDED 'B' & 'C' ANCHOR	4/1/2011
9	ADDED 'B' & 'C' ANCHOR	4/1/2011
10	ADDED 'B' & 'C' ANCHOR	4/1/2011
11	ADDED 'B' & 'C' ANCHOR	4/1/2011
12	ADDED 'B' & 'C' ANCHOR	4/1/2011
13	ADDED 'B' & 'C' ANCHOR	4/1/2011
14	ADDED 'B' & 'C' ANCHOR	4/1/2011
15	ADDED 'B' & 'C' ANCHOR	4/1/2011
16	ADDED 'B' & 'C' ANCHOR	4/1/2011
17	ADDED 'B' & 'C' ANCHOR	4/1/2011
18	ADDED 'B' & 'C' ANCHOR	4/1/2011
19	ADDED 'B' & 'C' ANCHOR	4/1/2011
20	ADDED 'B' & 'C' ANCHOR	4/1/2011
21	ADDED 'B' & 'C' ANCHOR	4/1/2011
22	ADDED 'B' & 'C' ANCHOR	4/1/2011
23	ADDED 'B' & 'C' ANCHOR	4/1/2011
24	ADDED 'B' & 'C' ANCHOR	4/1/2011
25	ADDED 'B' & 'C' ANCHOR	4/1/2011
26	ADDED 'B' & 'C' ANCHOR	4/1/2011
27	ADDED 'B' & 'C' ANCHOR	4/1/2011
28	ADDED 'B' & 'C' ANCHOR	4/1/2011
29	ADDED 'B' & 'C' ANCHOR	4/1/2011
30	ADDED 'B' & 'C' ANCHOR	4/1/2011
31	ADDED 'B' & 'C' ANCHOR	4/1/2011
32	ADDED 'B' & 'C' ANCHOR	4/1/2011
33	ADDED 'B' & 'C' ANCHOR	4/1/2011
34	ADDED 'B' & 'C' ANCHOR	4/1/2011
35	ADDED 'B' & 'C' ANCHOR	4/1/2011
36	ADDED 'B' & 'C' ANCHOR	4/1/2011
37	ADDED 'B' & 'C' ANCHOR	4/1/2011
38	ADDED 'B' & 'C' ANCHOR	4/1/2011
39	ADDED 'B' & 'C' ANCHOR	4/1/2011
40	ADDED 'B' & 'C' ANCHOR	4/1/2011
41	ADDED 'B' & 'C' ANCHOR	4/1/2011
42	ADDED 'B' & 'C' ANCHOR	4/1/2011
43	ADDED 'B' & 'C' ANCHOR	4/1/2011
44	ADDED 'B' & 'C' ANCHOR	4/1/2011
45	ADDED 'B' & 'C' ANCHOR	4/1/2011
46	ADDED 'B' & 'C' ANCHOR	4/1/2011
47	ADDED 'B' & 'C' ANCHOR	4/1/2011
48	ADDED 'B' & 'C' ANCHOR	4/1/2011
49	ADDED 'B' & 'C' ANCHOR	4/1/2011
50	ADDED 'B' & 'C' ANCHOR	4/1/2011
51	ADDED 'B' & 'C' ANCHOR	4/1/2011
52	ADDED 'B' & 'C' ANCHOR	4/1/2011
53	ADDED 'B' & 'C' ANCHOR	4/1/2011
54	ADDED 'B' & 'C' ANCHOR	4/1/2011
55	ADDED 'B' & 'C' ANCHOR	4/1/2011
56	ADDED 'B' & 'C' ANCHOR	4/1/2011
57	ADDED 'B' & 'C' ANCHOR	4/1/2011
58	ADDED 'B' & 'C' ANCHOR	4/1/2011
59	ADDED 'B' & 'C' ANCHOR	4/1/2011
60	ADDED 'B' & 'C' ANCHOR	4/1/2011

WINDOOR®

DESIGNED BY: A. LYNN MILLER
TECHNOLOGY DRIVE
PHONE: 111 (1234)
APP. NAME

PROJECT: [illegible]

DRAWN BY: [illegible]
CHECKED BY: [illegible]
DATE: [illegible]

SIERRA ALUM. SLIDING DOOR SYSTEM

SHEET TITLE: SHEAR CAPACITY WORKSHEET

SCALE: NONE

SHEET NO. 11 OF 11

REVISION: [illegible]

ANTHONY LYNN MILLER
LICENSED
No. 29705
STATE OF
PROFESSIONAL ENGINEER

A LYNN MILLER PE
PE29705

TABLE 10

PANEL WIDTH (INCHES)	DOOR HEIGHT (INCHES)	ANCH. TYPE D 1/4" SIDE CLEARANCE (LBS/SQ. IN.)		ANCH. TYPE E 1/4" SIDE CLEARANCE (LBS/SQ. IN.)		ANCH. TYPE D + E 3/8" SIDE SPACER (LBS/SQ. IN.)			ANCHORS TYPE D + E 1/2" SIDE SPACER (LBS/SQ. IN.)			
		A	B	A	B	A	B	B	A	B	10	12
24	80	170.0	170.0	170.0	170.0	65.0	170.0	170.0	170.0	170.0	170.0	–
30		163.3	170.0	170.0	170.0	124.3	170.0	170.0	146.8	170.0	170.0	–
36		170.0	170.0	170.0	170.0	68.8	170.0	170.0	140.3	170.0	170.0	170.0
42		158.6	158.6	158.6	158.6	133.5	158.6	158.6	140.1	158.6	158.6	158.6
48		140.0	140.0	140.0	140.0	114.8	140.0	140.0	120.7	140.0	140.0	140.0
54		134.3	134.3	134.3	134.3	104.6	134.3	134.3	108.1	134.3	134.3	134.3
60		113.1	113.1	113.1	113.1	53.8	113.1	113.1	68.3	113.1	113.1	113.1
24	84	170.0	170.0	170.0	170.0	147.1	170.0	170.0	170.0	170.0	170.0	–
30		168.3	170.0	170.0	170.0	118.4	170.0	170.0	134.8	170.0	170.0	–
36		170.0	170.0	170.0	170.0	148.3	170.0	170.0	166.8	170.0	170.0	170.0
42		158.6	158.6	158.6	158.6	127.1	158.6	158.6	133.5	158.6	158.6	158.6
48		140.0	140.0	140.0	140.0	111.8	140.0	140.0	119.8	140.0	140.0	140.0
54		134.3	134.3	134.3	134.3	98.0	134.3	134.3	104.0	134.3	134.3	134.3
60		113.1	113.1	113.1	113.1	60.1	113.1	113.1	63.8	113.1	113.1	113.1
24	96	170.0	170.0	170.0	170.0	137.8	170.0	170.0	162.8	170.0	170.0	–
30		165.1	170.0	170.0	170.0	112.5	168.7	170.0	130.0	170.0	170.0	–
36		170.0	170.0	170.0	170.0	98.2	170.0	170.0	141.2	170.0	170.0	170.0
42		158.6	158.6	158.6	158.6	136.7	158.6	158.6	133.6	158.6	158.6	158.6
48		140.0	140.0	140.0	140.0	113.8	140.0	140.0	108.1	140.0	140.0	140.0
54		134.3	134.3	134.3	134.3	102.6	134.3	134.3	91.5	134.3	134.3	134.3
60		113.1	113.1	113.1	113.1	63.3	113.1	113.1	67.4	113.1	113.1	113.1
24	108	170.0	170.0	170.0	170.0	128.2	170.0	170.0	150.8	170.0	170.0	–
30		158.1	170.0	168.5	170.0	103.6	159.4	170.0	122.3	165.1	170.0	–
36		170.0	170.0	170.0	170.0	129.6	170.0	170.0	136.1	170.0	170.0	170.0
42		158.6	158.6	158.6	158.6	111.6	158.6	158.6	119.4	158.6	158.6	158.6
48		140.0	140.0	140.0	140.0	91.7	140.0	140.0	98.1	140.0	140.0	140.0
54		134.3	134.3	134.3	134.3	84.4	134.3	134.3	90.3	134.3	134.3	134.3
60		113.1	113.1	113.1	113.1	53.3	113.1	113.1	57.0	113.1	113.1	113.1
24	120	160.7	170.0	170.0	170.0	109.2	170.0	170.0	130.8	170.0	170.0	–
30		138.1	170.0	168.5	170.0	103.6	159.4	170.0	122.3	165.1	170.0	–
36		170.0	170.0	170.0	170.0	129.6	170.0	170.0	136.1	170.0	170.0	170.0
42		158.6	158.6	158.6	158.6	111.6	158.6	158.6	119.4	158.6	158.6	158.6
48		140.0	140.0	140.0	140.0	91.7	140.0	140.0	98.1	140.0	140.0	140.0
54		134.3	134.3	134.3	134.3	84.4	134.3	134.3	90.3	134.3	134.3	134.3
60		113.1	113.1	113.1	113.1	53.3	113.1	113.1	57.0	113.1	113.1	113.1
24	132	160.0	160.0	160.0	160.0	121.8	160.0	160.0	130.7	160.0	160.0	–
30		138.1	160.0	160.0	160.0	97.8	160.0	160.0	115.1	160.0	160.0	–
36		160.0	160.0	160.0	160.0	122.0	160.0	160.0	128.1	160.0	160.0	160.0
42		158.6	160.0	160.0	160.0	104.7	158.6	160.0	112.0	160.0	160.0	160.0
48		140.0	140.0	140.0	140.0	91.7	140.0	140.0	98.1	140.0	140.0	140.0
54		134.3	134.3	134.3	134.3	84.4	134.3	134.3	90.3	134.3	134.3	134.3
60		113.1	113.1	113.1	113.1	53.3	113.1	113.1	57.0	113.1	113.1	113.1
24	144	160.0	160.0	160.0	160.0	114.8	160.0	160.0	130.7	160.0	160.0	–
30		138.1	160.0	160.0	160.0	92.1	139.1	160.0	108.7	160.0	160.0	–
36		160.0	160.0	160.0	160.0	115.0	160.0	160.0	121.0	160.0	160.0	160.0
42		158.6	160.0	160.0	160.0	98.6	121.6	160.0	105.8	160.0	160.0	160.0
48		140.0	140.0	140.0	140.0	86.5	113.4	140.0	90.8	113.5	138.4	140.0
54		134.3	134.3	134.3	134.3	77.0	102.7	134.3	80.9	80.0	126.0	134.3
60		113.1	113.1	113.1	113.1	60.3	80.5	113.1	72.9	80.0	113.1	113.1
24	156	160.0	160.0	160.0	160.0	108.8	160.0	160.0	129.5	160.0	160.0	–
30		118.6	160.0	154.3	160.0	87.2	103.8	140.0	103.0	117.9	160.0	–
36		160.0	160.0	160.0	160.0	109.3	160.0	160.0	114.9	160.0	160.0	160.0
42		158.1	160.0	140.0	160.0	93.7	129.6	160.0	98.3	122.9	160.0	160.0
48		122.8	140.0	126.3	140.0	80.0	108.4	134.7	85.1	107.4	126.3	140.0
54		84.8	120.2	108.2	108.2	71.0	87.2	108.0	74.4	80.0	108.0	108.0
60		80.3	108.0	101.1	108.0	66.7	87.6	108.0	69.9	80.0	103.5	108.0
24	168	135.8	140.0	140.0	140.0	103.4	140.0	140.0	110.1	95.0	140.0	–
30		108.8	140.0	127.4	140.0	80.9	134.3	140.0	87.9	120.3	140.0	–
36		136.3	140.0	140.0	140.0	103.7	138.3	140.0	108.6	108.1	140.0	140.0
42		118.6	140.0	127.0	140.0	88.0	114.7	140.0	93.9	114.8	140.0	140.0
48		102.4	108.0	108.0	140.0	77.0	110.8	128.8	81.8	108.0	131.7	140.0
54		87.0	108.0	108.0	108.0	66.3	84.4	108.0	70.8	80.0	108.0	108.0
60		80.0	108.0	96.1	108.0	60.4	87.0	108.0	64.0	81.8	96.3	108.0

3 TRACK HEADSILL ANCHORAGE CAPACITY CHARTS

NOTE:
SEE SHEET 2 FOR ANCHOR TYPES.
ANCHOR CAPACITIES LISTED ON THIS SHEET TO BE USED IN CONJUNCTION WITH GLAZING MANUFACTURING AND SAFETY GLASS INSTITUTE GUIDELINES.
LOWER PANEL ENABLE VALVES CONTROL

WINDOOR

REVISED TO MEET FLORIDA BUILDING CODE 2010

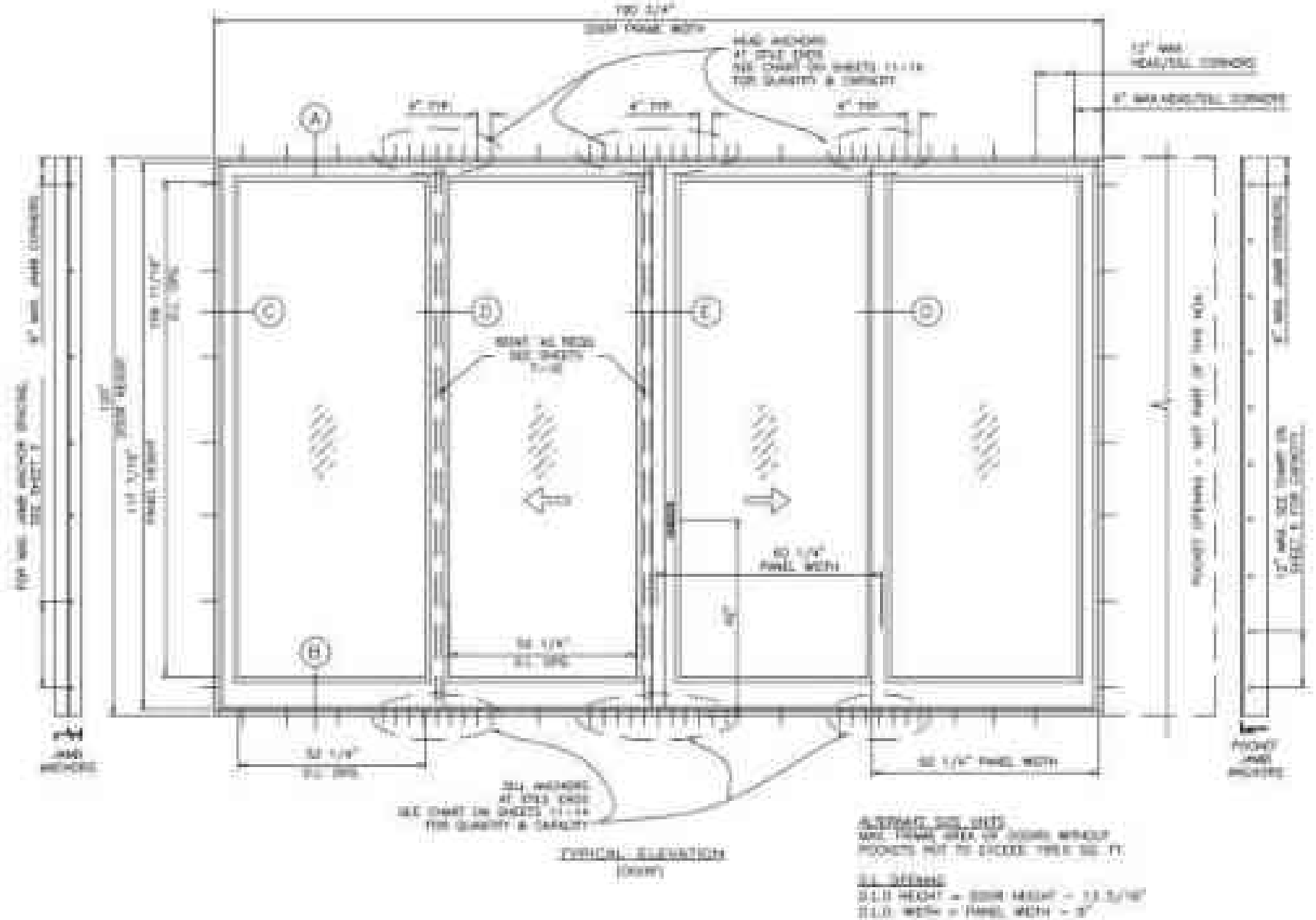
NO.	DATE	BY
1	11/15/13	
2	4/1/14	
3	5/22/15	

HEADSILL ANCHORAGE CAPACITY CHARTS

DRAWN BY: [illegible]
CHECKED BY: [illegible]
DATE: 11/15/13
SCALE: AS NOTED
JOB NO.: [illegible]
SHEET NO.: 4

ANTHONY LYNN MILLER
No. 38556
STATE OF FLORIDA
PROFESSIONAL ENGINEER

2 TRACK ELEVATION AND ANCHORAGE



ALTERNATE SIZE UNITS
MAX THREE SIDES OF DOORS WHOLLY
POCKETS NOT TO EXCEED 1950 SQ. FT.

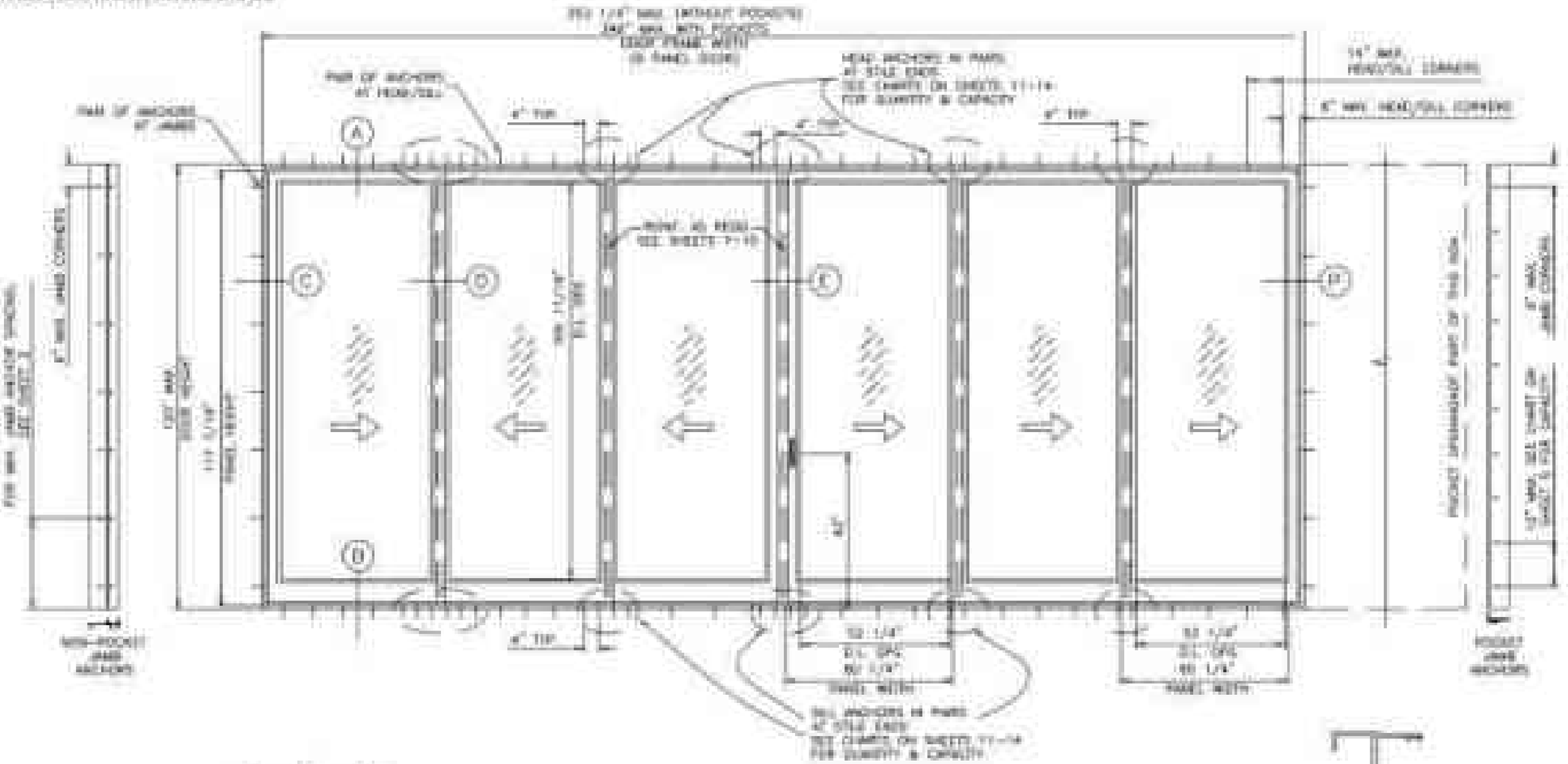
ALL DOORS
O.A.D. HEIGHT = DOOR HEIGHT – 13 5/16"
O.A.D. WIDTH = PANEL WIDTH – 3"

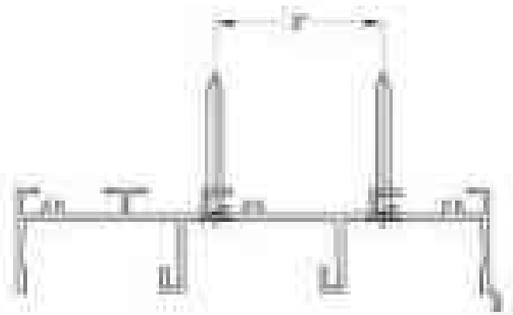
NO CHANGES THIS SHEET

WINDOOR

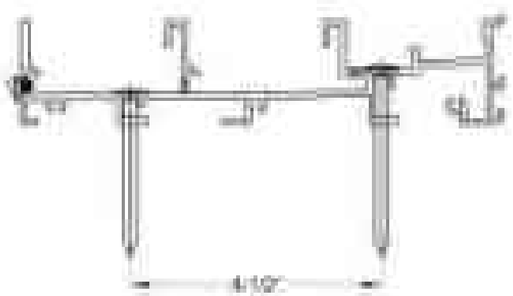
ANTHONY LYNN MILLER
LICENSE
No. 59332
STATE OF FLORIDA
PROFESSIONAL ENGINEER

3 TRACK ELEVATION AND ANCHORAGE

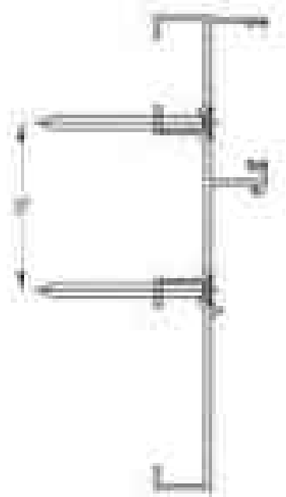




3 TRACK HEAD ANCHOR PAIRS



3 TRACK SILL ANCHOR PAIRS



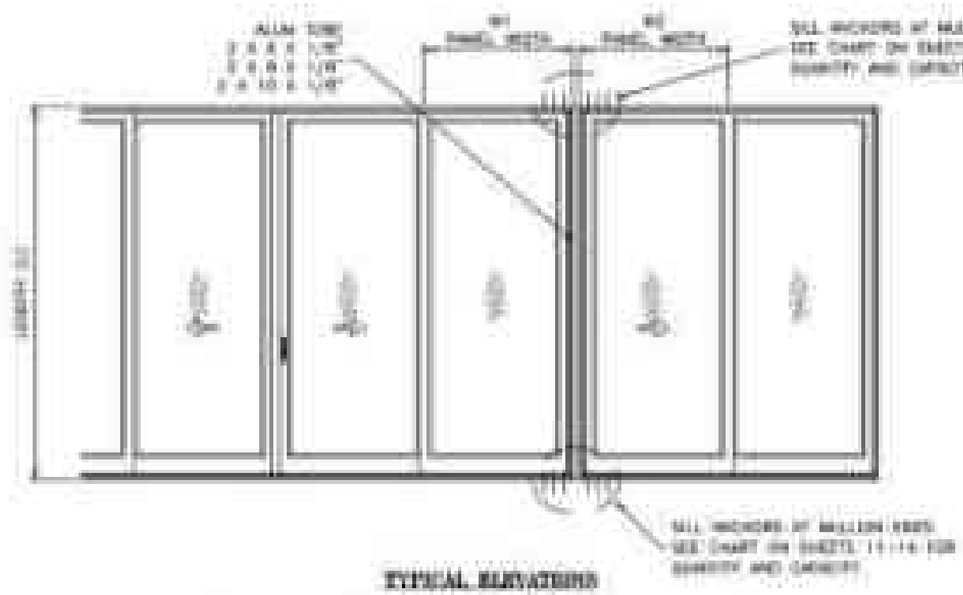
3 TRACK JAMB ANCHOR PAIRS

WINDOOR

SIERRA ALUM SLIDING GLASS DOOR

ANTHONY LYNN MILLER
LICENSED
No. 28705
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

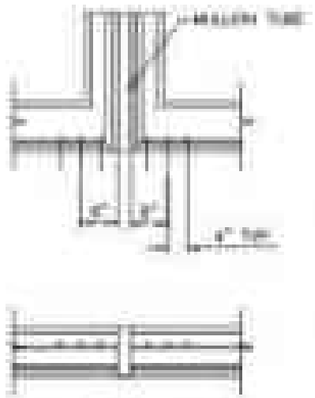
A. LYNN MILLER, P.E.
P.E. # 28705



TYPICAL ELEVATIONS
SIDE BY SIDE S.L. DOOR
SIDE BY SIDE APPLIES TO TWO OR MORE DOORS

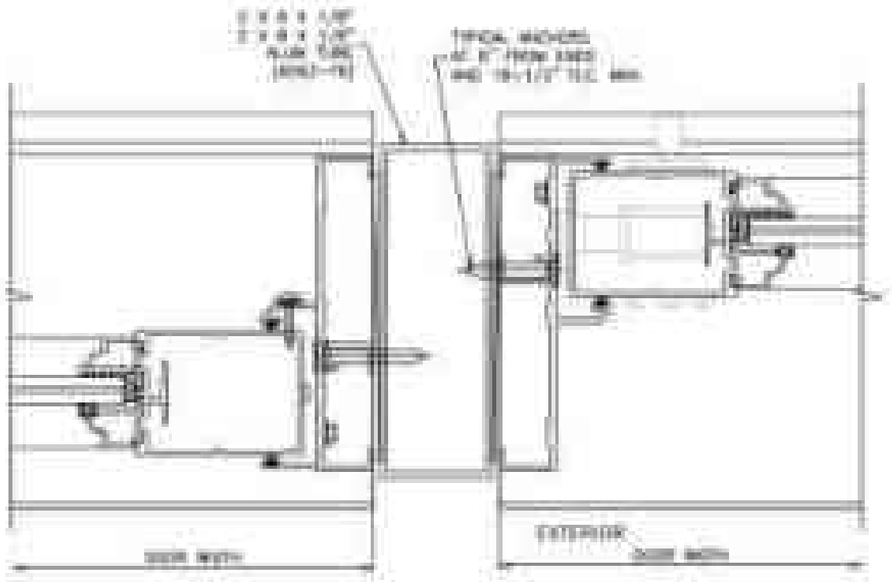
$$\text{WIDTH (W)} = \frac{W1 + W2}{2} + 2$$

W1 = SLD. PANEL WIDTH
W2 = SIDE PANEL WIDTH

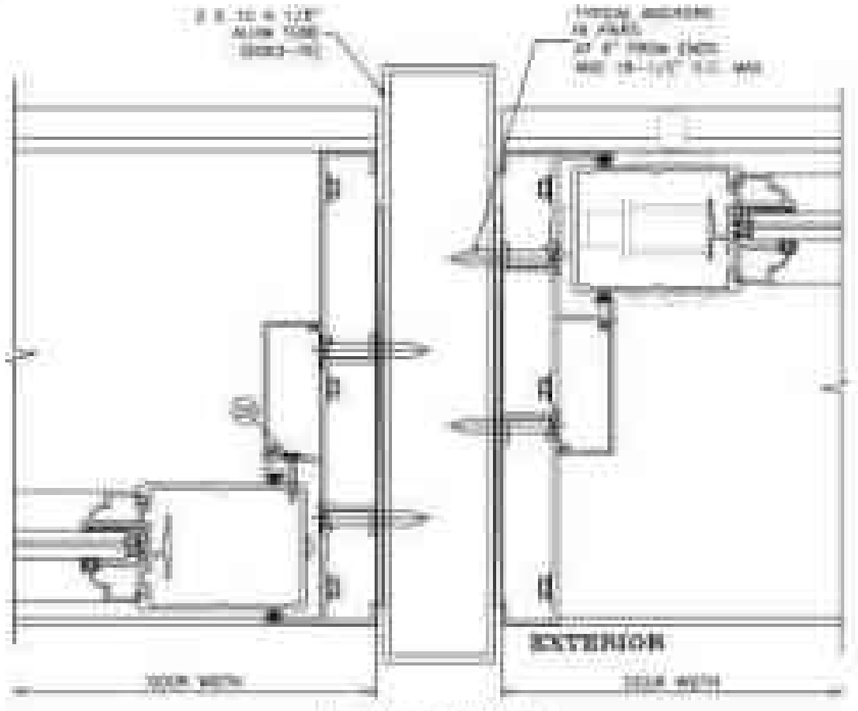


CENTER OF ANCHORS
HEAD/SILL

NOTES:
1. USE CHART ON SHEET 18 FOR SIZE OF SIDE CONNECTION CAPACITY OF DOOR MULLIONS.
2. FOR SLIDING GLASS DOOR CAPACITY SEE SHEETS 7-10.
3. USE CHARTS ON SHEETS 11-14 TO SELECT ANCHOR ARRANGEMENT AT MULLION END(S).
4. LOWER VALUES FROM SYSTEMS 1, 2 OR 3 WILL APPLY TO SLIDING SYSTEMS.



ENCLOSED MULLION



ENCLOSED MULLION

NO.	DESCRIPTION	DATE
1	ADDED ALUM. SLIDING GLASS DOOR SYSTEMS	11-01-11
2	ADDED NOTES	12-20-11
3	REVISED NOTES	1-17-12
4	ADDED SIDE BY SIDE	2-1-12
5	ADDED SIDE BY SIDE	2-1-12
6	ADDED SIDE BY SIDE	2-1-12
7	ADDED SIDE BY SIDE	2-1-12
8	ADDED SIDE BY SIDE	2-1-12
9	ADDED SIDE BY SIDE	2-1-12
10	ADDED SIDE BY SIDE	2-1-12
11	ADDED SIDE BY SIDE	2-1-12
12	ADDED SIDE BY SIDE	2-1-12
13	ADDED SIDE BY SIDE	2-1-12
14	ADDED SIDE BY SIDE	2-1-12
15	ADDED SIDE BY SIDE	2-1-12
16	ADDED SIDE BY SIDE	2-1-12
17	ADDED SIDE BY SIDE	2-1-12
18	ADDED SIDE BY SIDE	2-1-12
19	ADDED SIDE BY SIDE	2-1-12
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89	ADDED SIDE BY SIDE	2-1-12
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91	ADDED SIDE BY SIDE	2-1-12
92	ADDED SIDE BY SIDE	2-1-12
93	ADDED SIDE BY SIDE	2-1-12
94	ADDED SIDE BY SIDE	2-1-12
95	ADDED SIDE BY SIDE	2-1-12
96	ADDED SIDE BY SIDE	2-1-12
97	ADDED SIDE BY SIDE	2-1-12
98	ADDED SIDE BY SIDE	2-1-12
99	ADDED SIDE BY SIDE	2-1-12
100	ADDED SIDE BY SIDE	2-1-12

WINDOOR®

SIERRA ALUM. SLIDING GLASS DOOR SYSTEMS

SHEET 17 OF 17

ANTHONY LYNN MILLER
LICENSED
No. 28705
STATE OF
ILLINOIS
PROFESSIONAL ENGINEER

A. LYNN MILLER P.E.
P.E.#28705

TABLE 11:

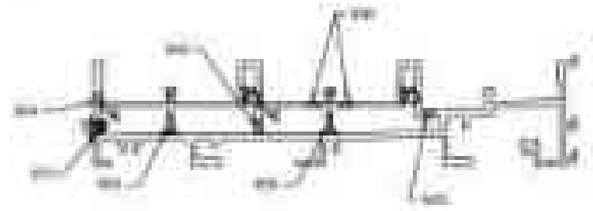
WEIGHT LOAD CAPACITY - PSF				
FRAME		2 1/2 X 6 1/4"	2 1/2 X 8 1/4"	2 1/2 X 10 1/4"
WIDTH (W) INCHES	LENGTH (L) INCHES	PSF(+) PSF(-)	PSF(+) PSF(-)	PSF(+) PSF(-)
26-1/4	84	140.0	140.0	140.0
32-1/4		140.0	140.0	140.0
38-1/4		140.0	140.0	140.0
44-1/4		140.0	140.0	140.0
50-1/4		140.0	140.0	140.0
56-1/4		140.0	140.0	140.0
62-1/4		140.0	140.0	140.0
26-1/4	96	140.0	140.0	140.0
32-1/4		140.0	140.0	140.0
38-1/4		140.0	140.0	140.0
44-1/4		140.0	140.0	140.0
50-1/4		140.0	140.0	140.0
56-1/4		140.0	140.0	140.0
62-1/4		140.0	140.0	140.0
26-1/4	108	140.0	140.0	140.0
32-1/4		140.0	140.0	140.0
38-1/4		140.0	140.0	140.0
44-1/4		140.0	140.0	140.0
50-1/4		140.0	140.0	140.0
56-1/4		140.0	140.0	140.0
62-1/4		140.0	140.0	140.0
26-1/4	114	140.0	140.0	140.0
32-1/4		140.0	140.0	140.0
38-1/4		140.0	140.0	140.0
44-1/4		140.0	140.0	140.0
50-1/4		140.0	140.0	140.0
56-1/4		140.0	140.0	140.0
62-1/4		140.0	140.0	140.0
26-1/4	120	140.0	140.0	140.0
32-1/4		140.0	140.0	140.0
38-1/4		140.0	140.0	140.0
44-1/4		140.0	140.0	140.0
50-1/4		140.0	140.0	140.0
56-1/4		140.0	140.0	140.0

3 TRACK WEEP HOLES

W1 = .28" X 1.00" WEEP SLOTS WITH PLASTIC COVER
AT 6" FROM EACH END AND 48" O.C.

W2 = 1/4" X 2" WEEP SLOTS
AT 6" FROM EACH END AND 48" O.C.

W3 = 1/4" X 3/8" WEEP HOLES
AT 6" FROM EACH END AND 48" O.C.

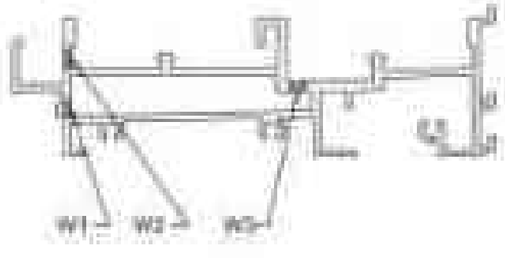


3 TRACK WEEP HOLES

W1 = .28" X 1.00" WEEP SLOTS WITH PLASTIC COVER
AT 6" FROM EACH END AND 48" O.C.

W2 = 1/4" X 2" WEEP SLOTS
AT 6" FROM EACH END AND 48" O.C.

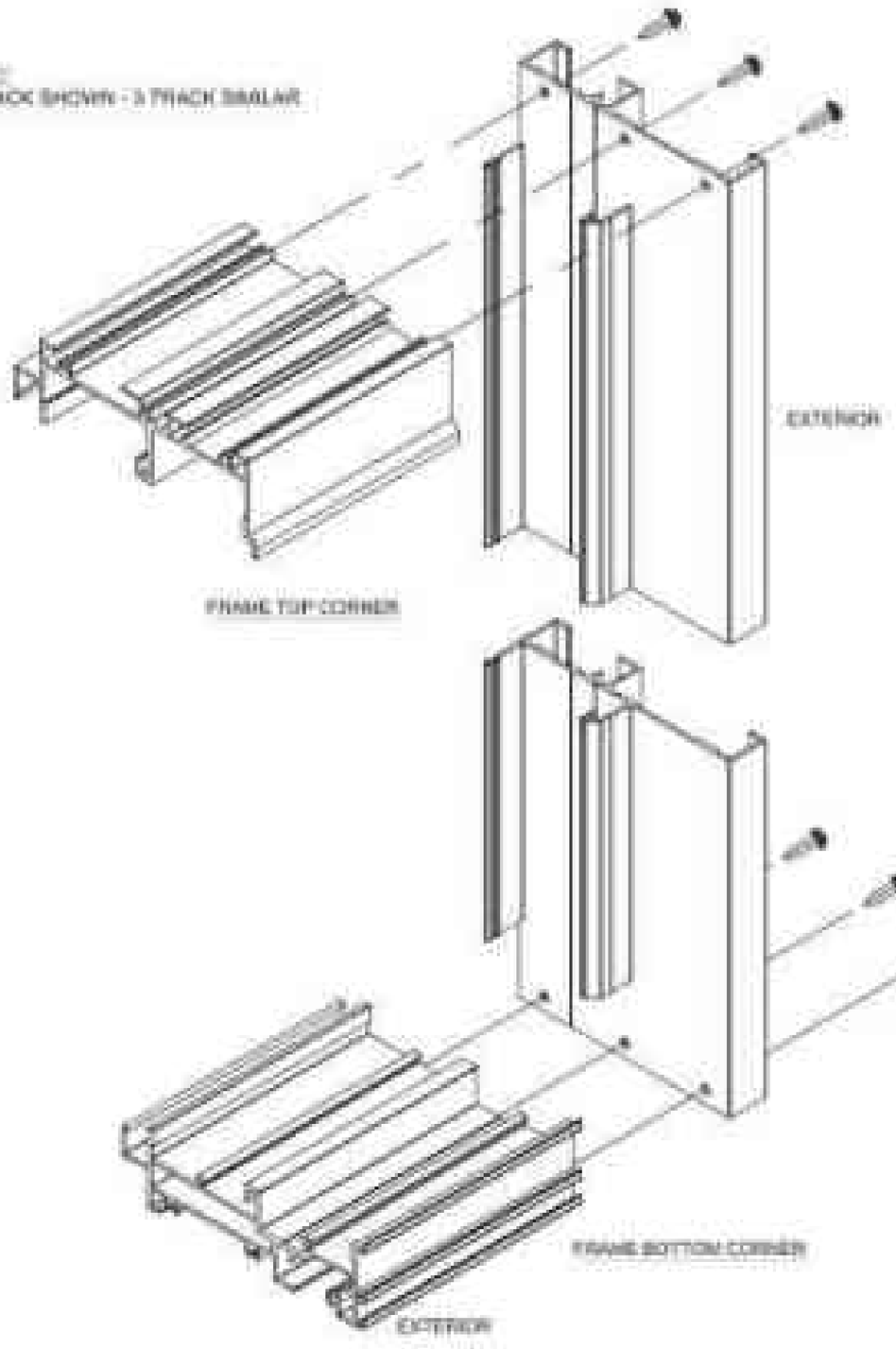
W3 = 1/4" X 3/8" WEEP HOLES
AT 6" FROM EACH END AND 48" O.C.



WINDOOR

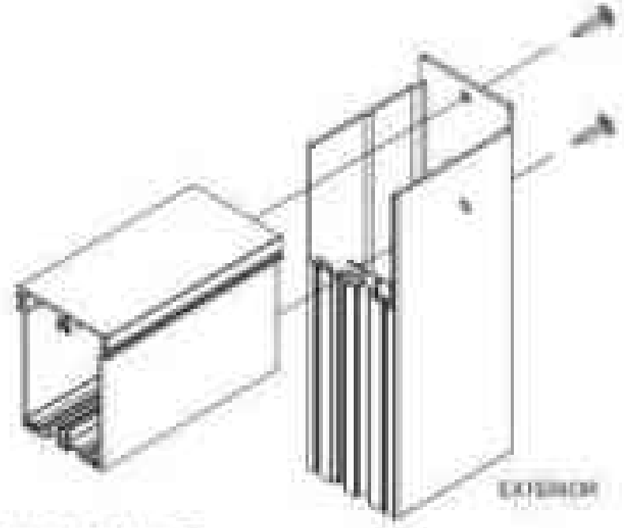
ANTHONY LYNN MILLER
LICENSED
No. 68132
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

NOTE:
2 TRACK SHOWN - 3 TRACK SIMILAR

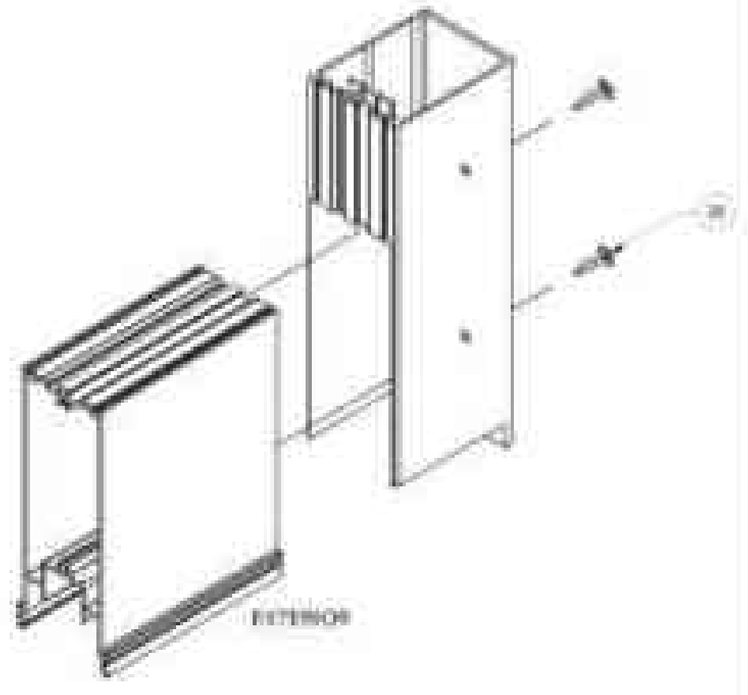


FRAME TOP CORNER

FRAME BOTTOM CORNER



PANEL TOP CORNER



PANEL BOTTOM CORNER

WINDOOR

NO.	DESCRIPTION	DATE
	NO CHANGES THIS SHEET	
1		
2		
3		
4		

SLIDING ALUM. SLIDING GLASS DOOR - PUSH LEVER

ARCHITECTURAL CORNER DETAILS

LOGAN HOMES

SCALE: 1 1/2" = 1'-0"

SHEET 14 OF 21

ANTHONY LYNN MILLER
LICENSED
No. 28705
STATE OF
PROFESSIONAL ENGINEER

A. LYNN MILLER P.E.
P.E.#28705

1 2-TRACK FRAME HEAD

2 2-TRACK FRAME SILL

3 3-TRACK FRAME JAMB

4 3-TRACK FRAME HEAD

5 3-TRACK FRAME SILL

6 JAMB COVER

7 TRACK INSERT

8 3-TRACK FRAME JAMB

9 SILL RISER (HI-RISE)

10 GLASS ADAPTER (COLONIAL)

11 JAMB LOCK STILE

12 BOTTOM RAIL

13 SILL RISER (STANDARD)

14 INTERLOCK STILE

15 MITERING STILE

16 TOP RAIL

17 GLAZING BEAD (COLONIAL)

18 GLAZING BEAD (SQUARE)

19 GLASS ADAPTER (SQUARE)

20 GLASS ADAPTER (LIG GLASS)

21 FIX PANEL SHOE

22 STILE REINFORCING

23 POCKET DOOR HOOK

NO.	DESCRIPTION
1	ISSUED FOR PERMIT
2	ISSUED FOR PERMIT
3	ISSUED FOR PERMIT
4	NO CHANGES THIS SHEET

WINDOOR

DESIGNED BY: A. LYNN MILLER
DRAWN BY: TECHNOLOGY DRIVE
CHECKED BY: SPACE, FL (HOT)
DATE: (000) 0000

SIERRA ALUM. SLIDING GLASS DOORS

ELEVATIONS

SCALE: 3" = 1'-0"

DATE: 00-00-21

SHEET NO.

ANTHONY LYNN MILLER
No. 00000
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E. # 00000

TABLE 19:

Bill of Materials			
Item #	Part #	Description	Material
1	CGI-550	2 Track Frame Head	6063-T6
2	CGI-554	2 Track Frame Sill	6063-T6
3	CGI-552	2 Track Frame Jamb	6063-T6
4	CGI-572	3 Track Frame Head	6063-T6
5	CGI-573	3 Track Frame Sill	6063-T6
6	CGI-574	3 Track Frame Jamb	6063-T6
7	CGI-575	Track Insert	6063-T5
8	CGI-576	Lamb Cover	6063-T6
9	CGI-555	Top Rail	6063-T6
10	CGI-556	Bottom Rail	6063-T6
11	CGI-557	Lamb/Lock Stile	6063-T6
12	CGI-558	Interlock Stile	6063-T6
13	CGI-559	Astragal Stile	6063-T6
14	CGI-555	5/8 Muntin (Standard)	6063-T6
15	CGI-554	5/8 Muntin (Hi-Rise)	6063-T6
16	CGI-562	Glazing Bead (Colonial)	6063-T6
17	CGI-563	Glazing Bead (Square)	6063-T6
18	CGI-562	Glass Adapter (Colonial)	6063-T6
19	CGI-564	Glass Adapter (Square)	6063-T6
20	CGI-565	Glass Adapter (Impal. Lam. Sim.)	6063-T6
21	CGI-580	Fin, Panel Rain, 2" Long	6063-T6
22	CGI-560	Stile Reinforcing	6063-T6
23	CGI-577	Pocket Door Hook	6063-T6
24	Varies	Wool Pile Weatherstripping With Fin	Pile
25	CGI-3827	Glazing Bead Bulb	Vinyl
26	Silicone	Structural Silicone	Rubber
27	CGI-584	Anti-Lift Block	UL 94 Nylon
28	CGI-585	Adhesive Backed Pile Pad (.394" High)	Pile
29	TA-51 or TA-84	Tandem 5/8 Roller	S/S
30	CH-200	M.S. Commercial Hook Bolt Lock	S/S Mech.
31	CH-307	Brass Thumbturn	Brass/Zinc
32	CH-308	Brass Keyed Exterior Cylinder	Brass/Zinc
33	CGI-581	.850" X .5-7/8" S/S Keeper	S/S
34	Screw (Frame)	#12 X 2-1/4" Hex Head S/S SMS	S/S
35	Screw (Panel)	#10 X 1-1/4" Pan Head S/S SMS	S/S
36	Screw	#8 X 1-1/2" Flat Head TEKS S/S	S/S
37	Screw	#10 X 1-1/2" Pan Head TEKS S/S	S/S
38	CGI-586	Rubber Seal	Rubber/Foam
39	Interlight Lamb Clip	8" Long Clip (W/ "U" Configuration)	Alum.
40	Hi-Flo Weeper	Weep Hole and Cover	Nylon
41	-	Setting Block	EPDM
42	WS-128	Adhesive Backed Pile Pad (2.75" X .3" X .08")	Pile
43	WS-597	Adhesive Backed Pile Pad (1.1" X .34" X .32")	Pile

2 TRACK FRAME WIDTH TO PANEL WIDTH FORMULAS:
FOR 1 PANEL DOORS: DOOR WIDTH - 2-1/2" = PANEL WIDTH
FOR 2 PANEL DOORS: DOOR WIDTH/2 + 1/4" = PANEL WIDTH
FOR 3 PANEL DOORS: DOOR WIDTH/3 -1/4" = PANEL WIDTH
FOR 4 PANEL DOORS: DOOR WIDTH/4 + 9/16" = PANEL WIDTH

2 TRACK PANEL WIDTH TO FRAME WIDTH FORMULAS:
FOR 1 PANEL DOORS: PANEL WIDTH + 2-1/2" = FRAME WIDTH
FOR 2 PANEL DOORS: PANEL WIDTH x 2 - 1/2" = FRAME WIDTH
FOR 3 PANEL DOORS: PANEL WIDTH X 3 + 3/4" = FRAME WIDTH
FOR 4 PANEL DOORS: PANEL WIDTH X 4 - 2-1/2" = FRAME WIDTH

3 TRACK FRAME WIDTH TO PANEL WIDTH FORMULAS:
FOR 3 PANEL DOORS: [DOOR WIDTH + 3-1/2"]/3 = PANEL WIDTH
FOR 6 PANEL DOORS: [DOOR WIDTH + 6"]/6 = PANEL WIDTH

3 TRACK PANEL WIDTH TO FRAME WIDTH FORMULAS:
FOR 3 PANEL DOORS: PANEL WIDTH x 3 - 3-1/2" = FRAME WIDTH
FOR 6 PANEL DOORS: PANEL WIDTH x 6 - 6" = FRAME WIDTH

2 TRACK FRAME WIDTH TO PANEL WIDTH FORMULAS - POCKET CONFIGURATIONS:
FOR PX: FRAME WIDTH + 1-11/16" = PANEL WIDTH
FOR PXX: [FRAME WIDTH + 4-11/16"]/2 = PANEL WIDTH
FOR PXXX: [FRAME WIDTH + 4-7/16"]/2 = PANEL WIDTH
FOR PXXXX: [FRAME WIDTH + 10-3/8"]/4 = PANEL WIDTH
FOR PXXXX: [FRAME WIDTH + 8-1/4"]/4 = PANEL WIDTH

2 TRACK PANEL WIDTH TO FRAME WIDTH FORMULAS - POCKET CONFIGURATIONS:
FOR PX: PANEL WIDTH + 1-11/16" = FRAME WIDTH
FOR PXX: PANEL WIDTH x 2 - 4-11/16" = FRAME WIDTH
FOR PXXX: PANEL WIDTH x 2 - 4-7/16" = FRAME WIDTH
FOR PXXXX: PANEL WIDTH x 4 - 10-3/8" = FRAME WIDTH
FOR PXXXX: PANEL WIDTH x 4 -8-1/4" = FRAME WIDTH

3 TRACK FRAME WIDTH TO PANEL WIDTH FORMULAS - POCKET CONFIGURATIONS:
FOR PXXX: [FRAME WIDTH + 7-1/2"]/3 = PANEL WIDTH
FOR PXXXXX: [FRAME WIDTH + 19-1/8"]/6 = PANEL WIDTH
FOR PXXXXX: [FRAME WIDTH + 12-1/16"]/6 = PANEL WIDTH

3 TRACK PANEL WIDTH TO FRAME WIDTH FORMULAS - POCKET CONFIGURATIONS:
FOR PXXX: PANEL WIDTH x 3 - 7-1/2" = FRAME WIDTH
FOR PXXXXX: PANEL WIDTH x 6 - 19-1/8" = FRAME WIDTH
FOR PXXXXX: PANEL WIDTH x 6 - 12-1/16" = FRAME WIDTH

NO.	DESCRIPTION	DATE
1	ADDED PANEL WIDTH TO FRAME WIDTH FORMULAS	10/29/19

WINDOOR