Engineering Evaluation Report #560-02102023.02

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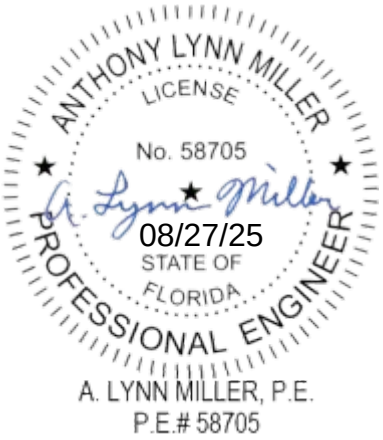
Manufacturer:
WinDoor Incorporated
104 Triple Diamond Blvd.
North Venice, FL 34275
(833) 554-5432

Product Description:
SGD560A Series Aluminum SMI 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-SMI-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 small missile impact resistant and does not require impact protection in wind borne debris regions when installed above 30’ height.
- 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/WO POCKETS

FLORIDA PRODUCT APPROVAL #XXXX

IMPACT RATING	DESIGN PRESSURE RATING
RATED FOR SMALL MISSILE IMPACT RESISTANCE	XXX THRU XXX PSF

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 REQUIRED UP TO 30 FT. ABOVE GRADE. SHUTTERS ARE NOT REQUIRED ABOVE 30 FT. ABOVE GRADE, PER FBC REQUIREMENTS.
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 THIS 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.

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 & 8 FOR THE GLASS TYPE AND REINFORCING TO USE.
3) USING CHARTS ON SHEET 9-12 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.

TABLE A

Anchor Group	Anchor Type	Substrate	Max. Shim Space	Min. Edge Distance	Min. Embedment or Metal Thickness
A	#14 SS SMS or SDS (Gr. 2 CR5)	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"	9/16"	1-3/8"
B	1/4" #Mb Kwik Con II	Southern Pine (SG = 0.55)	1/2"	1"	2"
		Through Stud into Conc. Or Block	1/2"	2-1/2"	1-1/4"
C	1/4" #Mb 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 Buck into Concrete	1/2"	2-1/2"	1-1/4"
		Through Buck into Hollow CMU	1/2"	2-1/2"	1-3/8"
E	5/16" Ultracon	Concrete (min. 3 ksi)	1/2"	2-1/2"	1-3/4"
		Grout Filled CMU (min. 2 ksi)	1/2"	2-1/2"	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.

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WINDOOR

GENERAL NOTES - ANCHORING TYPES

SGD560A

1 OF 19

NO CHANGES THIS SHEET

LMH

REVISED

4

DATE

SCALE

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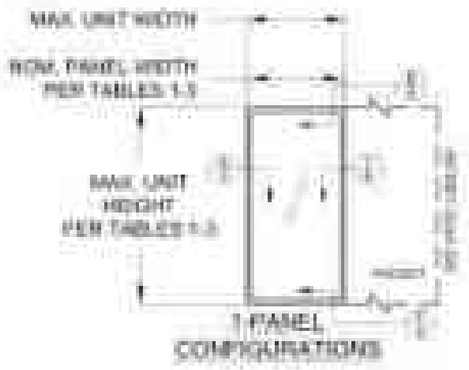
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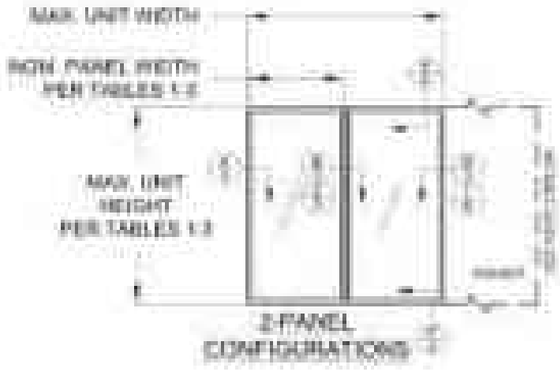
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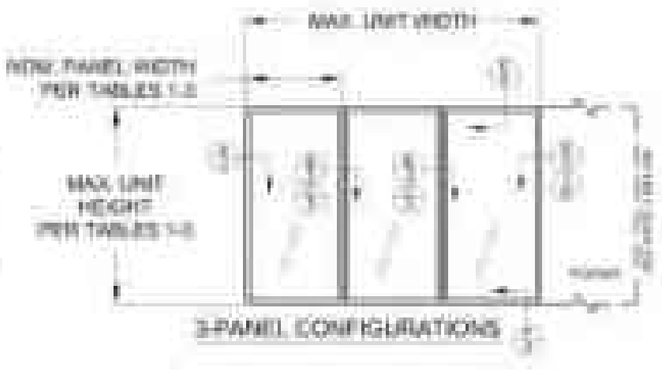
ROBERT LYNN MILLER
LICENSE
No. 54705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
ROBERT LYNN MILLER P.E.
P.E. # 54705



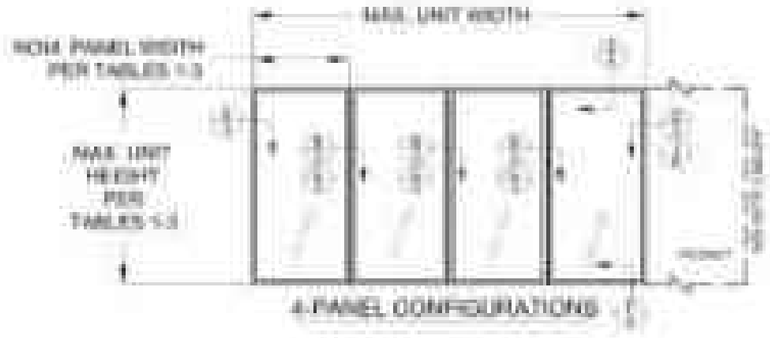
1-PANEL CONFIGURATIONS



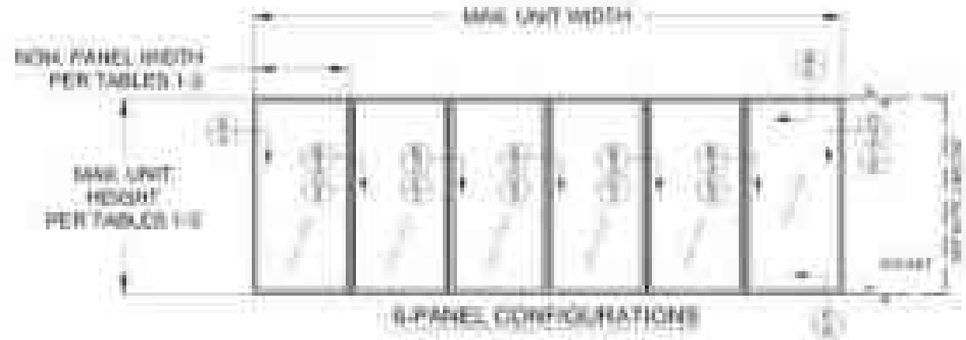
2-PANEL CONFIGURATIONS



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	3 Fixed Panel
24-1/4"	48"	71-1/2"	94-3/8"	25-3/4"
30-1/4"	60"	91-3/8"	120-3/4"	31-3/4"
36-1/4"	72"	109-1/2"	142-1/4"	38-3/8"
42-1/4"	84"	127-3/8"	165-3/4"	44-3/4"
48-1/4"	96"	145-1/2"	189-3/4"	50-3/4"
54-1/4"	108"	163-1/2"	214-3/4"	56-3/4"
60-1/4"	120"	181-1/2"	238-3/8"	62-3/4"

TABLE 2

Frame Width Based on Panel Width 3 Track Configurations		
Panel Width	5 Panel	6 Panel
24-1/4"	69-1/8"	117-1/2"
30-1/4"	87-1/8"	173-1/2"
36-1/4"	105-1/4"	229-1/2"
42-1/4"	123-1/8"	285-1/2"
48-1/4"	141-1/4"	281-1/2"
54-1/4"	229-1/4"	337-1/2"
60-1/4"	177-1/4"	853-1/2"

TABLE 3

Frame Width Based on Panel Width 2 Track Pocket Configurations					
Panel Width	pR, Rp	pRX, XRp	pXXp	pXXXRp	pXXXR
24-1/4"	33-9/16"	43-13/16"	44-1/16"	86-5/8"	95-4/8"
30-1/4"	39-9/16"	55-13/16"	56-1/16"	110-5/8"	134-5/8"
36-1/4"	34-9/16"	67-13/16"	68-1/16"	134-5/8"	186-3/4"
42-1/4"	45-9/16"	79-13/16"	80-1/16"	158-5/8"	162-3/8"
48-1/4"	45-9/16"	91-13/16"	92-1/16"	182-5/8"	186-3/4"
54-1/4"	52-9/16"	103-13/16"	104-1/16"	206-5/8"	210-3/8"
60-1/4"	58-9/16"	115-13/16"	116-1/16"	230-5/8"	234-3/8"

TABLE 4

Frame Width Based on Panel Width 3 Track Pocket Configurations			
Panel Width	pXXX, XXXp	pXXXXXXp	pXXXXXX
24-1/4"	69-1/4"	129-1/8"	133-7/16"
30-1/4"	89-1/8"	165-3/8"	169-7/16"
36-1/4"	101-1/4"	201-5/8"	205-7/16"
42-1/4"	119-1/4"	237-1/8"	241-7/16"
48-1/4"	137-1/8"	274-3/8"	277-7/16"
54-1/4"	155-1/4"	309-1/8"	313-7/16"
60-1/4"	173-1/4"	345-3/8"	349-7/16"

CONFIGURATIONS NOTES:

1) ALL CONFIGURATIONS SHOWN ARE ALSO AVAILABLE AS POCKET CONFIGURATIONS AT EITHER OR BOTH JAMB LOCATIONS. EXAMPLE: 4-PANEL XXXX IN POCKET (p) CONFIGURATION CAN BE pXXXp, pXXXR OR RXXXp. GXXX IN POCKET CONFIGURATION CAN BE GXXXp

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 18

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

MAX. 3-TRACK FRAME DOOR AREA NOT TO EXCEED 194.0 SQ. FT (EXCLUDING ANY POCKETS)

D.L.O WIDTH = PANEL WIDTH - 6"
D.L.O HEIGHT = DOOR HEIGHT - 15-5/16"
PANEL HEIGHT = DOOR HEIGHT - 3-9/16"

MAX. 2-TRACK FRAME DOOR AREA NOT TO EXCEED:
441.25 SQ. FT FOR LOADS UP TO 100 PSF
351.56 SQ. FT FOR LOADS ABOVE 100 PSF

NO CHANGES THIS SHEET

NO.	REVISIONS	BY
1	ADDED SHEETS	LMH
2	ADDED SHEETS 19-21	LMH
3	ADDED SHEETS 22-24	LMH
4	ADDED SHEETS 25-27	LMH

WINDOOR®
WINDOOR TECHNOLOGY, INC.
SEATTLE, WA
(206) 285-1000

PREPARED BY: A. LYNN MILLER
WINDOOR TECHNOLOGY, INC.
SEATTLE, WA
(206) 285-1000

REVISIONS (SEE SHEET 1)

DOOR SYSTEMS
SLIDING DOOR, 2 FIXED PANEL
3 TRACK, 6 PANEL MAXIMUM
ALUMINUM FRAMED
GLAZED WITH 1" INSULATING GLASS

DRAWING NO. 3-6SDFP-1
SCALE: NTS
SHEET NO. 2 OF 27

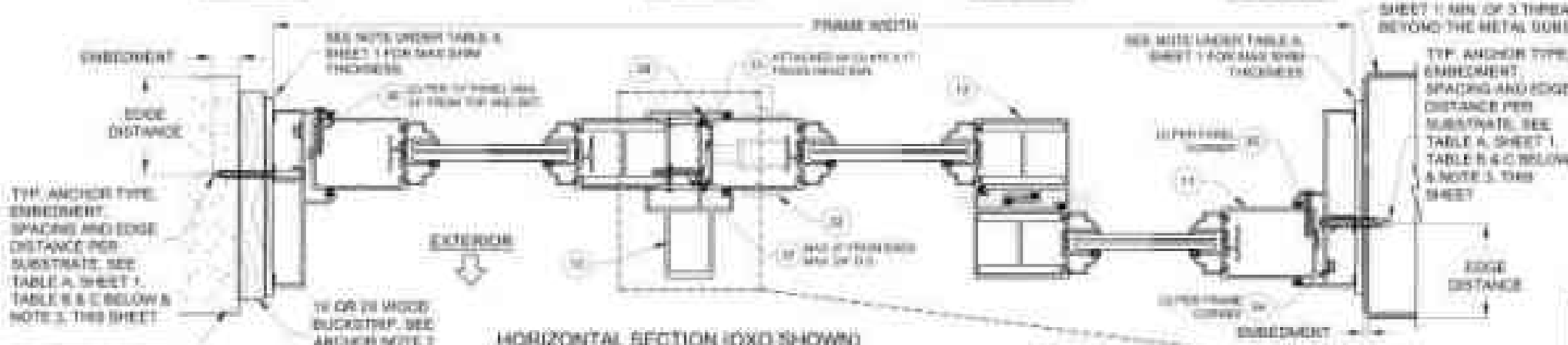
STATE OF WASHINGTON
ANTHONY LYNN MILLER
No. 34705
REGISTERED PROFESSIONAL ENGINEER

DETAIL A1

DETAIL B1

DETAIL C1

DETAIL D1

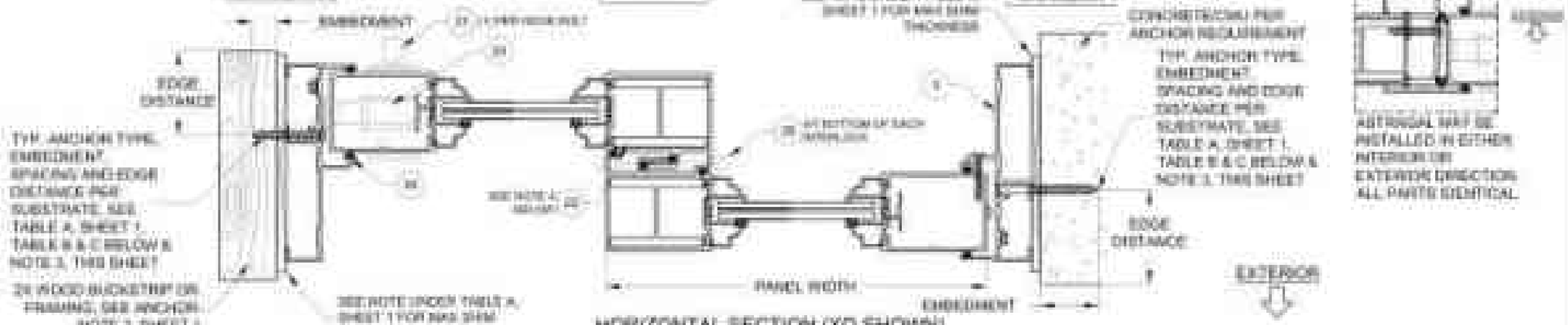


HORIZONTAL SECTION (OXO SHOWN)

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 13 & 14.
4) SEE SHEETS 7 & 9 FOR REINFORCEMENT REQUIREMENTS. REINFORCEMENT LENGTH IS EQUAL TO THE FRAME HEIGHT - 1/4".
5) 2 TRACK ANCHORAGE SHOWN - SEE SHEET 14 FOR 3 TRACK ANCHORAGE

TABLE B

Maximum Jamb Anchor Spacing - 2 Track			
Wind Span	Anchor Group		
	A	B & C	D & E
1/4"	36-1/2"	36-1/2"	18-1/2"
3/8"	-	24-1/2"	18-1/2"
1/2"	-	18-1/2"	9-1/4"

TABLE C

Maximum Jamb Anchor Spacing - 3 Track			
Wind Span	Anchor Group		
	A	B & C	D & E
1/4"	36-1/2"	18-1/2"	12-1/2"
3/8"	-	18-1/2"	12-1/2"
1/2"	-	9-1/4"	6-1/4"

WINDOOR

NO CHANGES THIS SHEET

DRAWN BY: A. LYNN MILLER
CHECKED BY: A. LYNN MILLER
APPROVED BY: A. LYNN MILLER

DATE	REVISION	BY
1/2/2013	INITIAL RELEASE	ALM
1/2/2013	ADDED 3 TRACK DETAILS	ALM
1/2/2013	ADDED ASTRAGAL INFORMATION	ALM
1/2/2013	ADDED ASTRAGAL DETAILS	ALM
1/2/2013	ADDED ASTRAGAL DETAILS	ALM
1/2/2013	ADDED ASTRAGAL DETAILS	ALM
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1/2/2013	ADDED ASTRAGAL DETAILS	ALM
1/2/2013	ADDED ASTRAGAL DETAILS	ALM

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No. 34705
REGISTERED PROFESSIONAL ENGINEER
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P.E. # 34705

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

1/4" OR 2X WOOD BUCKSTRIP, SEE ANCHOR NOTE 3, SHEET 1

DAYLIGHT OPENING HEIGHT

FRAME HEIGHT

EXTERIOR

SILL WITH RISER APPROVED FOR WATER RESISTANCE. SEE SHEET 6 FOR CAPACITY

DETAIL F1

3/8" MAX

POURED & HARDENED 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, PBC 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 13 & 14 FOR ANCHOR LOCATION & SPACING. FOR ANCHOR CLUSTER QUANTITIES, SEE SHEETS 9-12.
4) 2 TRACK ANCHORAGE SHOWN - SEE SHEET 14 FOR 3 TRACK ANCHORAGE

WINDOOR

3000SBA ALUM. SLIDING GLASS DOOR

INSTALLATION - VERTICAL SECTIONS

SCALE: 3" = 1'-0"

SHEET 10 OF 16

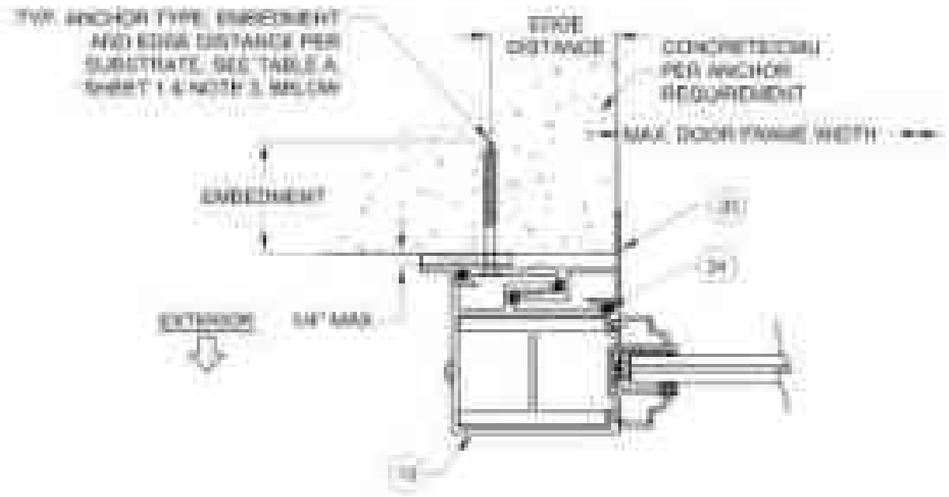
3000SBA

NEW PRODUCT APPROVAL

STATE OF FLORIDA

PROFESSIONAL ENGINEER

DETAIL H1



DETAIL H2

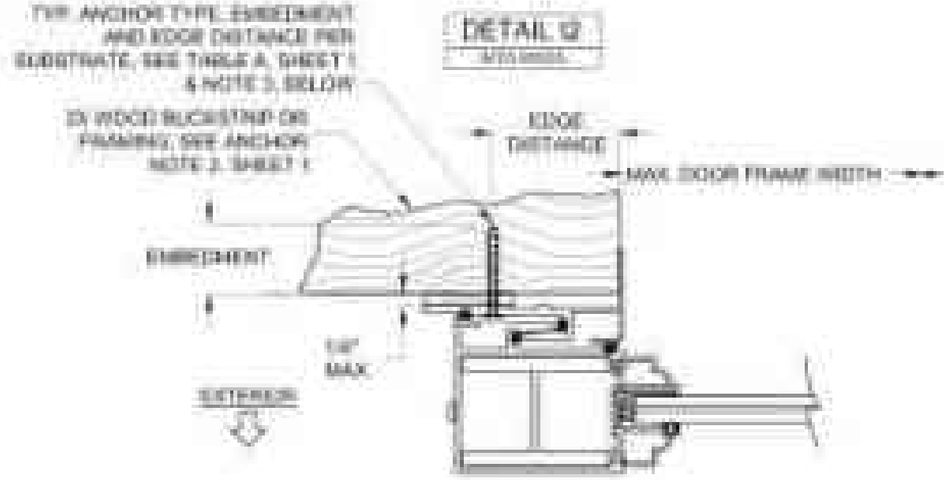


TABLE H:

3 - Track Pocket Hook Anchor Capacity - PSF [+/-]												
Anchor Type	Substrate	Min. Embedment	Min. Edge Dist.	Panel Widths								
				30-1/8"		42-1/8"		48-1/4"		54-1/8"		60-1/4"
				Est. [+]	Est. [-]	Est. [+]	Est. [-]	Est. [+]	Est. [-]	Est. [+]	Est. [-]	Est. [+]
1/4" Ultrascrew	Masonry	1-1/4"	3"	55.8	55.8	48.0	48.0	47.9	48.0	37.3	37.3	33.6
	Concrete	1-1/4"	3"	180.0	180.0	180.0	180.0	137.8	137.8	112.5	112.5	110.3
#14 SMS (Gr. 2 or Gr. 5 CRS)	Wood	1-1/4"	3/4"	120.0	120.0	120.0	120.0	92.0	92.0	75.0	75.0	73.5

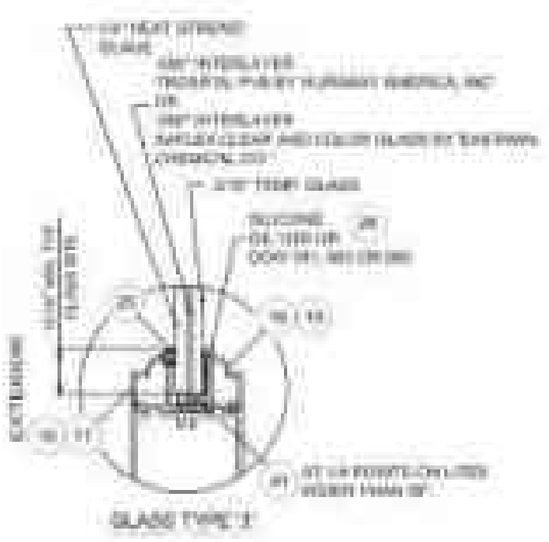
TABLE I:

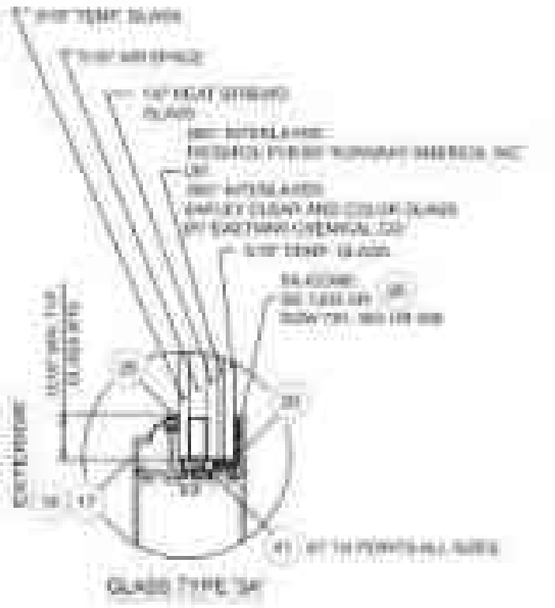
2 - Track Pocket Hook Anchor Capacity - PSF [+/-]									
Anchor Type	Substrate	Min. Embedment	Min. Edge Dist.	Panel Widths					
				30-1/8"	42-1/8"	48-1/4"	54-1/8"	60-1/4"	
1/4" Ultrascrew	Masonry	1-1/4"	3"	55.8	47.9	47.9	37.3	33.6	
	Concrete	1-1/4"	3"	180.0	180.0	137.8	112.5	110.3	
#14 SMS (Gr. 2 or Gr. 5 CRS)	Wood	1-1/4"	3/4"	180.0	180.0	131.0	106.5	104.9	

NOTES:
1) DETAILS APPLY TO 2 AND 3 TRACK CONFIGURATIONS.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) SEE SHEETS 13 & 14 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 I & H, THIS SHEET, ARE FOR 12" TYP. ANCHOR SPACING. MULTIPLY CAPACITY BY 2 FOR 6" TYP. ANCHOR SPACING.

LMH	10/27/23	ADDED EDGE DIST.	
LMH	10/27/23	ADDED DETAIL H2	
LMH	10/27/23	ADDED TABLE I	
LMH	10/27/23	ADDED TABLE H	
LMH	10/27/23	ADDED DETAIL H1	
LMH	10/27/23	ADDED NOTES	
LMH	10/27/23	ADDED EDGE DIST.	
LMH	10/27/23	ADDED EDGE DIST.	
LMH	10/27/23	ADDED EDGE DIST.

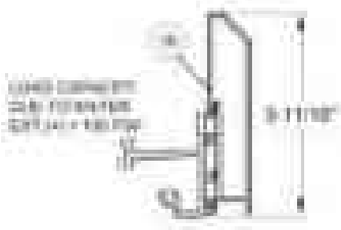
GLAZING OPTIONS

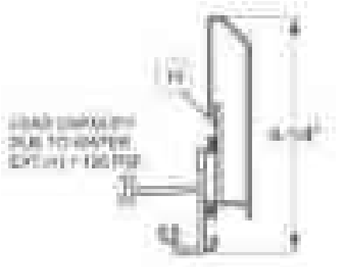




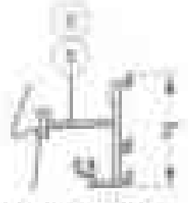








POSITIVE DESIGN PRESSURES SHOWN IN CHARTS ON SHEETS 7 MAY BE USED FOR DOORS THAT ARE NOT DESIGNED TO MEET WATER INFILTRATION RESISTANCE OR WHERE THE DOOR IS PROTECTED WITH AN OVERHANG PER NOTE 1 BELOW. OTHERWISE, THE TEMPORARY DESIGN PRESSURE WILL BE LIMITED TO THE POSITIVE DP SHOWN FOR EACH SILL RISER HEIGHT.



SILL WITHOUT 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 NOTE 1. THIS SHEET HAS POSITIVE DESIGN PRESSURE FOR THIS SILL IS THE SAME AS SHOWN IN TABLES 1-12.



NOTE:
3/16" AND 1/4" PANELS OF GLASS ON THE 1/2" LAMINATED UNIT ARE INTERCHANGEABLE.
(EX: 5'-0" × 1/4" OR 1/4" × 5'-0") LIMIT MAX PANEL AREA TO 40 SQ.FT.

FOR PANEL AREAS > 40 SQ. FT. LAMINATED PLIES MUST BE 1/4" + 3/16" (AS SHOWN IN DETAILS).

WINDOOR

DRAWN BY	LMH
CHECKED	KDTDS
NO CHANGES THIS SHEET	
SCALE	1:1
DATE	2/1/07 (MM)
10 SEE	
GLASS & SILL RISER DETAILS	
SHEET	6 OF 16
REVISION	

WINDOOR



TABLE 7

Glass Type: 7/8 in	Design Load Capacity - PSF (Glass)
	Glass Width / Panel Ht Width

Load Configuration (Ref. Manufacturer)																		
Design Loads																		

TABLE 8

Glass Type: 1	Design Load Capacity - PSF (Glass)
	Glass Width / Panel Ht Width

Load Configuration (Ref. Manufacturer)																		
Design Loads																		

TABLE 9

Glass Type: 1in	Design Load Capacity - PSF (Glass)
	Glass Width / Panel Ht Width

Load Configuration (Ref. Manufacturer)																		
Design Loads																		

2 TRACK GLASS CAPACITY CHARTS

GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 STD. SIZE(S)

NOTES:
CAPACITIES SHOWN IN CHARTS ARE FOR ZOOMED GLASS & CAP SILL RODS APPROPRIATE SILL RODS TO BE SELECTED FOR MAX POSITIVE DESIGN PRESSURE. SEE DETAILS ON SHEET 9

OBTAIN ANCHOR TYPE FROM SHEET 1 AND CONFIGURATION TO USE FROM ANCHOR CHARTS ON SHEETS 5-12.

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

CORRECT APPLICABLE VALUE FROM THE ABOVE WILL APPLY TO CORRECTION REQUIRED.

CONVERTED TO WINDOOR FORMAT

WINDOOR

ANCHOR ALUM. SLIDING GLASS DOOR - 2 TRACK

DESIGN CAPACITY CHARTS

SHEET 4

REVISIONS

DATE

BY

NO.

DESIGNED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA PURSUANT TO CHAPTER 471 FLORIDA STATUTES

ROBERT LYNN MILLER
LICENSE
No. 54705
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

4 LYNN MILLER P.E.
P.O. BOX 5772

TABLE 10

Glass Types 2 & 3A	Design Load Capacity - PSF (Glass)															
	Fixed Width / Fixed Unit Width															
Glass Height																
60"																
66"																
72"																
78"																
84"																
90"																
96"																
102"																
108"																
114"																
120"																

TABLE 11

Glass Types 1	Design Load Capacity - PSF (Glass)															
	Fixed Width / Fixed Unit Width															
Glass Height																
60"																
66"																
72"																
78"																
84"																
90"																
96"																
102"																
108"																
114"																
120"																

TABLE 12

Glass Type 3B	Design Load Capacity - PSF (Glass)															
	Fixed Width / Fixed Unit Width															
Glass Height																
60"																
66"																
72"																
78"																
84"																
90"																
96"																
102"																
108"																
114"																
120"																

3 TRACK GLASS CAPACITY CHARTS

GLASS CAPACITIES ON THIS SHEET ARE BASED ON AUTO
A156.10 (Sec. 3.6.3.1)b.

NOTE:
CAPACITIES SHOWN IN CHARTS ARE FOR 2GGRE (5MM) & 1/4" (6.4) INCH WIDE APPROPRIATE SILL RAISER TO BE SELECTED FOR MAX POSITIVE DESIGN PRESSURE. SEE DETAILS ON SHEET 9

OBTAIN ANCHOR TYPE FROM SHEET 1 AND CONFIGURATION TO USE FROM ANCHOR CHARTS ON SHEETS 5-12.

INSTALLATION SIDE AND CAPACITY TO BE OBTAINED FROM CHARTS ON SHEET 13.

CORNER APPLICABLE VALUE FROM THE ABOVE SHALL APPLY TO CORNER REGIONS.

WINDOOR	
3 TRACK GLASS CAPACITY - SERIES 3T	
SIERRA ALUM. SLIDING GLASS DOOR SYSTEM	
CONVERTED TO IMPERIAL FORMAT	

ARCHITECTURAL & STRUCTURAL ENGINEERING
[illegible]

REGISTERED PROFESSIONAL ENGINEER
No. 34705
STATE OF TEXAS
A. LYNN MILLER, P.E.

TABLE 11

DESIGN LOAD CAPACITY - PSF (ANCHORED AT REAR/HEAD)

PANEL WIDTH (INCHES)	DOOR HEIGHT (INCHES)	ANCHOR TYPE 'D' 1/4" SWIM SPACE CUTOUTS OF			ANCH. TYPE 'E' ANCH. TYPE 'F' & 'G' 1/4" SWIM CUTOUTS OF			ANCH. TYPE 'F' & 'G' 5/8" SWIM SPACE CUTOUTS OF			ANCHORS TYPE 'C' & 'D' 1/2" SWIM SPACE CUTOUTS OF				ANCHORS TYPE 'A' 1/4" SWIM SPACE CUTOUTS OF		
		A	T	B	A	T	A	T	B	A	T	B	LL	A	T	B
24"=1/2	80	150.0	—	—	190.0	—	190.0	—	—	190.0	—	—	—	190.0	—	—
30"=1/2		140.0	140.0	—	140.0	140.0	140.0	140.0	—	132.5	140.0	—	—	140.0	140.0	—
36"=1/2		140.0	140.0	—	140.0	140.0	140.0	140.0	—	132.5	140.0	—	—	140.0	140.0	—
42"=1/2		140.0	140.0	—	140.0	140.0	132.5	140.0	—	125.1	140.0	—	—	140.0	140.0	—
48"=1/2		130.2	140.0	140.0	140.0	140.0	118.8	140.0	140.0	92.0	132.7	140.0	140.0	140.0	140.0	140.0
54"=1/2		115.6	124.0	124.0	124.0	124.0	104.0	124.0	124.0	81.8	108.1	124.0	124.0	124.0	124.0	124.0
60"=1/2		104.0	112.1	112.1	112.1	112.1	93.6	112.1	112.1	73.7	98.3	112.1	112.1	112.1	112.1	112.1
24"=1/2	84	140.0	—	—	140.0	—	140.0	—	—	139.0	—	—	—	140.0	—	—
30"=1/2		140.0	140.0	—	140.0	140.0	140.0	140.0	—	118.0	140.0	—	—	140.0	140.0	—
36"=1/2		140.0	140.0	—	140.0	140.0	140.0	140.0	—	118.0	140.0	—	—	140.0	140.0	—
42"=1/2		140.0	140.0	—	140.0	140.0	127.1	140.0	—	108.1	133.5	—	—	140.0	140.0	—
48"=1/2		124.1	140.0	140.0	140.0	140.0	111.3	140.0	140.0	97.7	119.8	140.0	140.0	138.0	140.0	140.0
54"=1/2		110.3	124.0	124.0	124.0	124.0	99.0	124.0	124.0	86.0	104.0	124.0	124.0	122.0	124.0	124.0
60"=1/2		99.4	112.1	112.1	112.1	112.1	89.1	112.1	112.1	76.0	93.6	112.1	112.1	109.1	112.1	112.1
24"=1/2	96	140.0	—	—	140.0	—	140.0	—	—	139.7	—	—	—	140.0	—	—
30"=1/2		140.0	140.0	—	140.0	140.0	139.1	140.0	—	118.7	140.0	—	—	140.0	140.0	—
36"=1/2		140.0	140.0	—	140.0	140.0	139.3	140.0	—	118.0	140.0	—	—	140.0	140.0	—
42"=1/2		132.2	140.0	—	140.0	140.0	119.7	140.0	—	93.4	129.8	—	—	140.0	140.0	—
48"=1/2		115.8	140.0	140.0	140.0	140.0	102.9	139.0	140.0	81.4	109.1	139.8	140.0	137.1	140.0	140.0
54"=1/2		103.0	124.0	124.0	124.0	124.0	91.9	123.0	124.0	72.8	97.0	121.3	121.3	119.1	124.0	124.0
60"=1/2		92.7	112.1	112.1	112.1	112.1	82.3	112.0	112.1	65.0	87.4	109.8	112.1	107.8	112.1	112.1
24"=1/2	102	140.0	—	—	140.0	—	140.0	—	—	137.5	—	—	—	140.0	—	—
30"=1/2		140.0	140.0	—	140.0	140.0	138.5	140.0	—	117.5	140.0	—	—	140.0	140.0	—
36"=1/2		140.0	140.0	—	140.0	140.0	138.8	140.0	—	116.1	138.1	—	—	140.0	140.0	—
42"=1/2		124.0	140.0	—	140.0	140.0	111.3	140.0	—	87.6	116.8	—	—	139.1	140.0	—
48"=1/2		108.6	140.0	140.0	132.1	140.0	97.4	126.8	140.0	76.7	102.3	127.8	140.0	119.2	140.0	140.0
54"=1/2		96.6	124.0	124.0	117.5	124.0	86.6	115.9	124.0	68.2	91.0	113.7	124.0	106.0	124.0	124.0
60"=1/2		86.9	112.1	112.1	105.8	112.1	78.0	104.3	112.1	61.4	81.9	102.4	112.1	95.5	112.1	112.1
24"=1/2	108	140.0	—	—	140.0	—	140.0	—	—	114.7	—	—	—	140.0	—	—
30"=1/2		139.7	140.0	—	140.0	140.0	139.1	140.0	—	93.9	139.8	—	—	140.0	140.0	—
36"=1/2		139.8	140.0	—	140.0	140.0	139.3	140.0	—	93.7	121.8	—	—	140.0	140.0	—
42"=1/2		119.8	140.0	—	139.1	140.0	88.8	139.8	—	77.8	103.8	—	—	137.0	140.0	—
48"=1/2		98.5	139.7	140.0	117.4	140.0	89.8	113.9	140.0	68.2	90.9	113.6	139.4	125.0	140.0	140.0
54"=1/2		85.8	108.0	108.0	104.4	108.0	77.0	102.7	108.0	60.6	80.9	101.0	108.0	94.2	108.0	108.0
60"=1/2		77.2	103.0	108.0	94.0	108.0	68.3	92.5	108.0	54.6	72.8	91.0	108.0	84.8	108.0	108.0
24"=1/2	114	140.0	—	—	140.0	—	139.9	—	—	137.1	—	—	—	140.0	—	—
30"=1/2		131.3	139.8	—	140.0	139.8	139.0	140.0	—	89.9	133.0	—	—	133.4	139.8	—
36"=1/2		131.3	139.8	—	139.8	139.8	139.2	140	—	89.8	116.8	—	—	133.6	139.8	—
42"=1/2		104.9	139.8	—	127.8	139.8	93.7	129.9	—	72.8	98.3	—	—	114.8	139.8	—
48"=1/2		91.9	131.8	140.0	111.3	140.0	81.0	108.4	138.7	64.8	86.1	107.8	129.6	106.9	132.8	140.0
54"=1/2		81.7	103.0	108.0	98.9	108.0	72.0	97.3	108.0	57.4	76.5	95.7	105.0	89.3	108.0	108.0
60"=1/2		73.3	97.6	108.0	88.7	108.0	65.7	87.9	108.0	51.7	68.9	86.2	103.3	80.4	108.0	108.0
24"=1/2	120	140.0	—	—	140.0	—	139.9	—	—	137.1	—	—	—	140.0	—	—
30"=1/2		115.4	140.0	—	140.0	140.0	103.9	140.0	—	84.6	112.2	—	—	134.1	140.0	—
36"=1/2		115.4	140.0	—	140.0	140.0	103.7	139.8	—	83.7	108.0	—	—	129.9	140.0	—
42"=1/2		98.2	132.2	—	120.7	140.0	88.0	118.7	—	72.1	97.4	—	—	108.6	140.0	—
48"=1/2		86.8	115.8	140.0	103.8	140.0	77.6	103.9	139.8	63.4	84.4	103.3	130.7	98.4	127.1	140.0
54"=1/2		77.2	102.0	108.0	94.0	108.0	68.7	92.4	108.0	56.6	72.8	91.0	108.0	84.8	108.0	108.0
60"=1/2		69.8	92.7	108.0	84.8	108.0	62.2	83.5	108.0	48.1	65.5	81.9	98.3	76.4	102.8	108.0

2 TRACK HEADSILL ANCHORAGE CAPACITY CHARTS

NOTE:
SEE SHEET 1 FOR ANCHOR TYPES
ANCHOR CAPACITIES LISTED ARE PER
SHEET TO BE USED IN CONJUNCTION
WITH GLASS/DESIGN LOAD AND SIZE CHA
CHARTS IN THIS DOCUMENT
LOWER RATE/LOAD VALUES CONTROL

WINDOOR	
2 TRACK CAPACITY CHARTS	
SCREEN	
11 OF 11	
NO CHANGES THIS SHEET	
4	

TABLE 16

DESIGN LOAD CAPACITY – PSF (ANCHORS AT PERIMETER)

PANEL WIDTH / HEIGHT	DOOR WIDTH / HEIGHT	ANCHOR TYPE 'A' 1/4" VIEW SPACE COVERED BY			ANCH. TYPE 'C' 1/4" VIEW COVERED BY		ANCH. TYPE 'B' & 'C' 5/8" VIEW SPACE COVERED BY			ANCHORS TYPE 'A' & 'C' 1/8" VIEW SPACE COVERED BY			
		A	T	B	A	T	A	T	B	A	T	B	BJ
24×1/24	80	180.0	–	–	180.0	–	180.0	–	–	180.0	–	–	–
30×1/24		180.0	140.0	–	148.0	140.0	180.0	140.0	–	117.3	140.0	–	–
36×1/24		180.0	140.0	–	148.0	140.0	180.0	140.0	–	117.3	140.0	–	–
42×1/24		180.0	140.0	–	148.0	140.0	128.6	140.0	–	100.6	134.4	–	–
48×1/24		127.8	140.0	140.0	130.0	140.0	112.5	140.0	140.0	88.2	117.6	140.0	140.0
54×1/24		113.6	124.5	124.5	124.5	124.5	100.0	124.5	124.5	78.5	104.6	124.5	124.5
60×1/24		102.2	112.1	112.1	112.1	112.1	90.0	112.1	112.1	70.7	94.3	112.1	112.1
24×1/29	81	180.0	–	–	180.0	–	180.0	–	–	150.0	–	–	–
30×1/29		180.0	140.0	–	148.0	140.0	180.0	140.0	–	117.7	140.0	–	–
36×1/29		180.0	140.0	–	148.0	140.0	180.0	140.0	–	117.8	140.0	–	–
42×1/29		128.6	140.0	–	148.0	140.0	128.6	140.0	–	100.6	134.0	–	–
48×1/29		127.8	140.0	140.0	130.0	140.0	112.5	140.0	140.0	88.2	117.6	140.0	140.0
54×1/29		113.6	124.5	124.5	124.5	124.5	100.0	124.5	124.5	78.5	104.6	124.5	124.5
60×1/29		102.2	112.1	112.1	112.1	112.1	90.0	112.1	112.1	70.7	94.3	112.1	112.1
24×1/34	96	180.0	–	–	180.0	–	180.0	–	–	150.0	–	–	–
30×1/34		180.0	140.0	–	148.0	140.0	180.0	140.0	–	117.7	140.0	–	–
36×1/34		180.0	140.0	–	148.0	140.0	180.0	140.0	–	117.8	140.0	–	–
42×1/34		128.6	140.0	–	148.0	140.0	128.6	140.0	–	100.6	134.0	–	–
48×1/34		127.8	140.0	140.0	130.0	140.0	112.5	140.0	140.0	88.2	117.6	140.0	140.0
54×1/34		113.6	124.5	124.5	124.5	124.5	100.0	124.5	124.5	78.5	104.6	124.5	124.5
60×1/34		102.2	112.1	112.1	112.1	112.1	90.0	112.1	112.1	70.7	94.3	112.1	112.1
24×1/39	102	180.0	–	–	180.0	–	180.0	–	–	150.0	–	–	–
30×1/39		180.0	140.0	–	148.0	140.0	180.0	140.0	–	117.7	140.0	–	–
36×1/39		180.0	140.0	–	148.0	140.0	180.0	140.0	–	117.8	140.0	–	–
42×1/39		128.6	140.0	–	148.0	140.0	128.6	140.0	–	100.6	134.0	–	–
48×1/39		127.8	140.0	140.0	130.0	140.0	112.5	140.0	140.0	88.2	117.6	140.0	140.0
54×1/39		113.6	124.5	124.5	124.5	124.5	100.0	124.5	124.5	78.5	104.6	124.5	124.5
60×1/39		102.2	112.1	112.1	112.1	112.1	90.0	112.1	112.1	70.7	94.3	112.1	112.1
24×1/49	114	180.0	–	–	180.0	–	180.0	–	–	150.0	–	–	–
30×1/49		180.0	140.0	–	148.0	140.0	180.0	140.0	–	117.7	140.0	–	–
36×1/49		180.0	140.0	–	148.0	140.0	180.0	140.0	–	117.8	140.0	–	–
42×1/49		128.6	140.0	–	148.0	140.0	128.6	140.0	–	100.6	134.0	–	–
48×1/49		127.8	140.0	140.0	130.0	140.0	112.5	140.0	140.0	88.2	117.6	140.0	140.0
54×1/49		113.6	124.5	124.5	124.5	124.5	100.0	124.5	124.5	78.5	104.6	124.5	124.5
60×1/49		102.2	112.1	112.1	112.1	112.1	90.0	112.1	112.1	70.7	94.3	112.1	112.1
24×1/59	120	180.0	–	–	180.0	–	180.0	–	–	150.0	–	–	–
30×1/59		180.0	140.0	–	148.0	140.0	180.0	140.0	–	117.7	140.0	–	–
36×1/59		180.0	140.0	–	148.0	140.0	180.0	140.0	–	117.8	140.0	–	–
42×1/59		128.6	140.0	–	148.0	140.0	128.6	140.0	–	100.6	134.0	–	–
48×1/59		127.8	140.0	140.0	130.0	140.0	112.5	140.0	140.0	88.2	117.6	140.0	140.0
54×1/59		113.6	124.5	124.5	124.5	124.5	100.0	124.5	124.5	78.5	104.6	124.5	124.5
60×1/59		102.2	112.1	112.1	112.1	112.1	90.0	112.1	112.1	70.7	94.3	112.1	112.1

2 TRACK HEADSILL ANCHORAGE CAPACITY CHARTS

NOTE:
SEE SHEET 1 FOR ANCHOR TYPES
ANCHOR CAPACITIES LISTED FOR ONE
SHEET TO BE USED IN CONJUNCTION
WITH GLAZING INFORMATION AND NOTES
CHART IS FOR OCCUPANT
LOADS APPLICABLE UNLESS CONTROL

WINDOOR



TABLE 15

3 TRACK HEAD/SILL ANCHORAGE CAPACITY CHARTS

NOTE:
SEE SHEET 1 FOR ANCHOR TYPES
ANCHOR CAPACITIES LISTED OK PER
SHEET TO BE USED IN CONJUNCTION
WITH GLASS REINFORCING AND INSULION
CHARTS IN THIS DOCUMENT
LOWER APPLICABLE VALUES CONTROL

PANEL WIDTH (INCHES)	DOOR HEIGHT (INCHES)	ANCHORS TYPE 'B' 1/4" MIN SPACE (LB/SQ FT)			ANCHORS TYPE 'C' 1/4" MIN SPACE (LB/SQ FT)			ANCHORS TYPE 'B' & 'C' 1/8" MIN SPACE (LB/SQ FT)				ANCHORS TYPE 'D' & 'C' 1/2" MIN SPACE (LB/SQ FT)				ANCHORS TYPE 'A' 1/4" MIN SPACE (LB/SQ FT)		
		A	B	B	A	B	B	A	B	B	BB	B	B	BB	BB	A	B	B
24+1/8	80	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	--	140.0	140.0	140.0
28+1/8		134.2	140.0	140.0	140.0	140.0	140.0	120.7	140.0	140.0	140.0	147.0	140.0	140.0	--	140.0	140.0	140.0
36+1/8		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42+1/8		140.0	140.0	140.0	140.0	140.0	140.0	129.6	140.0	140.0	140.0	137.2	140.0	140.0	140.0	140.0	140.0	140.0
48+1/8		128.5	140.0	140.0	140.0	140.0	140.0	113.5	140.0	140.0	140.0	119.4	140.0	140.0	140.0	140.0	140.0	140.0
54+1/8		113.0	134.5	134.5	134.5	134.5	134.5	100.8	134.5	134.5	134.5	105.3	134.5	134.5	134.5	134.5	134.5	134.5
60+1/8		101.1	113.1	113.1	113.1	113.1	113.1	90.9	113.1	113.1	113.1	94.8	113.1	113.1	113.1	113.1	113.1	113.1
24+1/8	84	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	--	140.0	140.0	140.0
28+1/8		127.9	140.0	140.0	140.0	140.0	140.0	114.6	140.0	140.0	140.0	119.5	140.0	140.0	--	140.0	140.0	140.0
36+1/8		140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42+1/8		127.2	140.0	140.0	140.0	140.0	140.0	123.9	140.0	140.0	140.0	128.8	140.0	140.0	140.0	140.0	140.0	140.0
48+1/8		109.0	136.5	136.5	140.0	140.0	140.0	108.1	140.0	140.0	140.0	113.8	140.0	140.0	140.0	136.5	140.0	136.5
54+1/8		108.8	124.2	124.8	135.5	134.8	124.8	98.1	124.8	124.8	124.8	102.3	134.8	124.8	124.8	121.7	124.8	124.8
60+1/8		98.7	112.1	112.1	112.1	112.1	112.1	88.8	112.1	112.1	112.1	92.3	112.1	112.1	112.1	108.8	112.1	112.1
24+1/8	87	140.0	140.0	140.0	140.0	140.0	140.0	133.8	140.0	140.0	140.0	140.0	140.0	140.0	--	140.0	140.0	140.0
28+1/8		118.0	140.0	140.0	140.0	140.0	140.0	107.2	140.0	140.0	140.0	105.9	140.0	140.0	--	136.8	140.0	140.0
36+1/8		140.0	140.0	140.0	140.0	140.0	140.0	134.1	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42+1/8		128.2	140.0	140.0	140.0	140.0	140.0	115.2	140.0	140.0	140.0	122.6	140.0	140.0	140.0	140.0	140.0	140.0
48+1/8		113.2	140.0	140.0	135.7	140.0	140.0	100.8	134.5	140.0	140.0	105.8	131.8	140.0	140.0	137.7	140.0	140.0
54+1/8		98.8	124.8	124.8	118.8	124.8	124.8	88.1	118.8	124.8	124.8	93.8	111.8	124.8	124.8	115.8	124.8	124.8
60+1/8		88.8	112.1	112.1	107.1	112.1	112.1	80.6	107.1	112.1	112.1	84.3	100.8	112.1	112.1	103.3	112.1	112.1
24+1/8	91	139.0	139.0	140.0	140.0	140.0	140.0	125.9	140.0	140.0	140.0	140.0	140.0	140.0	--	140.0	140.0	140.0
28+1/8		111.9	140.0	140.0	140.0	140.0	140.0	100.8	140.0	140.0	140.0	100.1	140.0	140.0	--	127.5	140.0	140.0
36+1/8		140.0	140.0	140.0	140.0	140.0	140.0	120.4	140.0	140.0	140.0	121.9	140.0	140.0	140.0	140.0	140.0	140.0
42+1/8		120.1	140.0	140.0	140.0	140.0	140.0	108.0	140.0	140.0	140.0	112.7	140.0	140.0	140.0	136.8	140.0	140.0
48+1/8		107.2	140.0	140.0	125.3	140.0	140.0	94.8	128.1	140.0	140.0	98.7	123.9	140.0	140.0	118.8	140.0	140.0
54+1/8		93.6	124.8	124.8	111.5	124.8	124.8	84.1	111.5	124.8	124.8	87.8	106.7	124.8	124.8	106.0	124.8	124.8
60+1/8		84.5	112.1	112.1	100.4	112.1	112.1	75.7	100.4	112.1	112.1	79.3	96.6	112.1	112.1	93.8	112.1	112.1
24+1/8	102	134.1	140.0	140.0	140.0	140.0	140.0	120.4	140.0	140.0	140.0	126.8	140.0	140.0	--	140.0	140.0	140.0
28+1/8		105.3	140.0	140.0	140.0	140.0	140.0	94.8	140.0	140.0	140.0	111.1	140.0	140.0	--	119.8	140.0	140.0
36+1/8		121.8	140.0	140.0	140.0	140.0	140.0	109.6	140.0	140.0	140.0	114.8	140.0	140.0	140.0	140.0	140.0	140.0
42+1/8		112.1	140.0	140.0	134.1	140.0	140.0	101.8	135.5	140.0	140.0	106.0	130.1	133.8	140.0	136.7	140.0	140.0
48+1/8		99.0	132.0	140.0	118.5	140.0	140.0	89.0	118.7	140.0	140.0	92.9	114.1	136.3	140.0	112.7	140.0	140.0
54+1/8		88.1	117.4	134.5	134.8	134.5	134.5	79.2	105.6	134.5	134.5	84.0	103.3	123.8	134.5	100.2	134.5	134.5
60+1/8		79.3	105.3	105.3	94.8	105.3	105.3	71.3	95.0	105.3	105.3	74.4	90.0	107.0	105.3	90.3	105.3	105.3
24+1/8	108	134.5	140.0	140.0	140.0	140.0	140.0	111.8	140.0	140.0	140.0	133.8	140.0	140.0	--	140.0	140.0	140.0
28+1/8		95.4	140.0	140.0	138.5	140.0	140.0	85.4	114.1	140.0	140.0	89.4	134.8	138.4	140.0	--	113.2	140.0	140.0
36+1/8		109.6	140.0	140.0	140.0	140.0	140.0	111.8	140.0	140.0	140.0	116.8	140.0	140.0	140.0	140.0	140.0	140.0
42+1/8		98.8	140.0	140.0	127.3	140.0	140.0	98.9	128.3	140.0	140.0	105.3	128.5	140.0	140.0	121.8	140.0	140.0
48+1/8		88.5	124.7	140.0	111.5	140.0	140.0	88.1	111.0	140.0	140.0	87.7	109.7	131.6	140.0	109.9	140.0	140.0
54+1/8		83.0	105.0	105.0	99.1	105.0	105.0	74.8	99.7	105.0	105.0	78.8	98.5	105.0	105.0	94.7	105.0	105.0
60+1/8		74.8	99.8	105.0	88.8	105.0	105.0	67.5	89.8	105.0	105.0	70.3	87.8	105.0	105.0	83.8	105.0	105.0
24+1/8	114	117.0	140.0	140.0	140.0	140.0	140.0	105.8	140.0	140.0	140.0	126.8	140.0	140.0	--	133.8	140.0	140.0
28+1/8		88.2	140.0	140.0	132.2	140.0	140.0	88.7	121.0	140.0	140.0	89.3	133.8	140.0	--	107.2	140.0	140.0
36+1/8		117.6	140.0	140.0	140.0	140.0	140.0	105.8	140.0	140.0	140.0	110.9	136.5	140.0	140.0	134.3	140.0	140.0
42+1/8		101.2	134.9	140.0	120.5	140.0	140.0	88.9	121.3	140.0	140.0	95.8	118.8	140.0	140.0	115.2	140.0	140.0
48+1/8		88.8	118.1	140.0	105.8	140.0	140.0	79.6	106.2	132.7	140.0	85.1	103.8	124.7	140.0	100.8	134.5	140.0
54+1/8		79.6	105.0	105.0	94.8	105.0	105.0	71.5	94.4	105.0	105.0	73.9	90.0	105.0	105.0	94.7	105.0	105.0
60+1/8		70.9	94.5	105.0	84.5	105.0	105.0	63.8	85.0	105.0	105.0	66.9	82.2	99.8	105.0	89.8	105.0	105.0
24+1/8	120	111.9	140.0	140.0	132.0	140.0	140.0	100.8	140.0	140.0	140.0	144.0	117.8	140.0	140.0	127.1	140.0	140.0
28+1/8		95.2	119.2	140.0	108.9	140.0	140.0	85.3	107.1	140.0	140.0	89.4	115.8	140.0	--	121.9	140.0	140.0
36+1/8		112.0	140.0	140.0	132.5	140.0	140.0	100.7	126.0	140.0	140.0	105.1	131.4	140.0	140.0	127.5	140.0	140.0
42+1/8		96.1	128.2	140.0	114.5	140.0	140.0	86.4	115.2	140.0	140.0	95.2	112.7	135.2	140.0	109.4	140.0	140.0
48+1/8		86.2	112.0	140.0	105.3	133.7	140.0	75.7	100.9	126.1	140.0	79.9	98.7	118.4	138.2	95.8	127.7	140.0
54+1/8		74.4	99.8	105.0	89.2	105.0	105.0	67.5	89.7	105.0	105.0	70.2	83.9	105.0	105.0	89.9	105.0	105.0
60+1/8		67.4	89.8	105.0	80.3	105.0	105.0	60.8	80.8	101.0	105.0	63.2	79.0	94.8	105.0	76.7	102.3	105.0

WINDOOR
NO CHANGES TO THIS SHEET
ISSUED
SCALE
SHEET

TABLE 16

DESIGN SHEAR CAPACITY – PSF (ANCHORED AT HEAD / SILL)

PANEL WIDTH (INCHES)	DOOR HEIGHT (INCHES)	ANCHOR TYPE 'B' & ANCHOR TYPE 'C' 1/4" THICK CLEVIS PIN		ANCHOR TYPE 'B' & ANCHOR TYPE 'C' 1/4" THICK CLEVIS PIN		ANCHOR TYPE 'D' & 'E' 3/8" THICK MTG. PLATE CLEVIS PIN			ANCHOR TYPE 'D' & 'E' 1/2" THICK MTG. PLATE CLEVIS PIN			
		A	B	A	B	A	B	C	A	B	J6	J8
24	60	160.0	160.0	140.0	140.0	140.0	160.0	140.0	140.0	140.0	140.0	--
36	60	140.0	140.0	140.0	140.0	124.3	140.0	140.0	140.0	140.0	140.0	--
38	60	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42	60	140.0	140.0	140.0	140.0	126.5	140.0	140.0	140.0	140.0	140.0	140.0
48	60	140.0	140.0	140.0	140.0	110.9	140.0	140.0	122.7	140.0	140.0	140.0
54	60	124.9	124.9	124.9	124.9	99.6	124.9	124.9	108.1	124.9	124.9	124.9
60	60	112.1	112.1	112.1	112.1	87.6	112.1	112.1	88.3	112.1	112.1	112.1
24	72	160.0	160.0	160.0	160.0	160.0	160.0	140.0	160.0	160.0	140.0	--
36	72	140.0	140.0	140.0	140.0	118.6	140.0	140.0	138.8	140.0	140.0	--
38	72	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
42	72	140.0	140.0	140.0	140.0	127.1	140.0	140.0	133.5	140.0	140.0	140.0
48	72	140.0	140.0	140.0	140.0	111.2	140.0	140.0	116.9	140.0	140.0	140.0
54	72	124.9	124.9	124.9	124.9	99.0	124.9	124.9	104.0	124.9	124.9	124.9
60	72	112.1	112.1	112.1	112.1	89.1	112.1	112.1	93.8	112.1	112.1	112.1
24	84	160.0	160.0	160.0	160.0	137.8	160.0	140.0	160.0	160.0	140.0	--
36	84	140.0	140.0	140.0	140.0	118.8	140.0	140.0	138.8	140.0	140.0	--
38	84	140.0	140.0	140.0	140.0	139.0	140.0	140.0	140.0	140.0	140.0	140.0
42	84	140.0	140.0	140.0	140.0	126.7	140.0	140.0	134.6	140.0	140.0	140.0
48	84	126.0	140.0	140.0	140.0	110.9	138.5	140.0	118.1	126.9	140.0	140.0
54	84	121.4	124.9	124.9	124.9	98.6	123.2	124.9	97.0	121.1	124.9	124.9
60	84	108.0	112.1	112.1	112.1	88.3	110.6	112.1	87.4	108.2	112.1	112.1
24	96	160.0	160.0	160.0	160.0	128.2	160.0	140.0	160.0	160.0	140.0	--
36	96	136.1	140.0	140.0	140.0	123.6	140.0	140.0	133.3	140.0	140.0	--
38	96	140.0	140.0	140.0	140.0	129.6	140.0	140.0	138.1	140.0	140.0	140.0
42	96	140.0	140.0	140.0	140.0	117.3	140.0	140.0	118.8	140.0	140.0	140.0
48	96	126.0	140.0	140.0	140.0	97.4	126.9	140.0	104.1	117.8	140.0	140.0
54	96	113.8	124.9	124.9	124.9	86.8	115.5	124.9	91.0	113.7	124.9	124.9
60	96	102.5	112.1	112.1	112.1	78.5	104.0	112.1	81.8	102.4	112.1	112.1
24	108	160.0	160.0	140.0	140.0	112.8	149.0	140.0	149.0	149.0	140.0	--
36	108	136.1	140.0	140.0	140.0	97.9	140.0	140.0	116.1	140.0	140.0	--
38	108	140.0	140.0	140.0	140.0	102.0	140.0	140.0	138.1	140.0	140.0	140.0
42	108	140.0	140.0	140.0	140.0	104.1	138.5	140.0	139.9	137.4	140.0	140.0
48	108	120.4	140.0	140.0	140.0	87.7	122.2	140.0	99.3	100.3	140.0	140.0
54	108	107.1	124.9	124.9	124.9	81.2	108.7	124.9	82.6	107.0	124.9	124.9
60	108	96.4	102.0	102.0	102.0	72.4	97.8	102.0	77.1	96.0	102.0	102.0
24	114	160.0	160.0	160.0	160.0	114.8	160.0	140.0	135.7	144.0	140.0	--
36	114	128.8	140.0	140.0	140.0	97.1	138.1	140.0	108.7	140.0	140.0	--
38	114	140.0	140.0	140.0	140.0	115.0	140.0	140.0	127.5	140.0	140.0	140.0
42	114	126.9	140.0	140.0	140.0	98.9	131.8	140.0	103.8	126.8	140.0	140.0
48	114	113.7	140.0	133.7	140.0	86.9	115.4	140.0	90.9	113.6	136.4	140.0
54	114	101.2	112.9	112.9	112.9	77.2	102.7	112.9	80.9	99.0	112.9	112.9
60	114	91.1	102.0	102.0	102.0	69.1	92.5	102.0	72.8	89.0	102.0	102.0
24	120	160.0	160.0	140.0	140.0	108.8	160.0	140.0	128.5	140.0	140.0	--
36	120	114.6	140.0	136.1	140.0	97.3	130.9	140.0	103.0	127.4	140.0	--
38	120	140.0	140.0	140.0	140.0	108.3	140.0	140.0	114.8	140.0	140.0	140.0
42	120	126.1	140.0	140.0	140.0	93.7	124.9	140.0	98.5	120.0	140.0	140.0
48	120	107.8	140.0	126.7	140.0	82.5	109.4	138.7	86.1	107.5	128.2	140.0
54	120	95.9	107.0	106.9	126.0	73.5	97.2	126.0	76.6	95.5	106.9	126.0
60	120	86.3	102.0	101.1	126.0	66.2	87.5	105.4	68.0	86.0	102.0	126.0
24	126	160.0	160.0	140.0	140.0	102.4	160.0	140.0	122.1	140.0	140.0	--
36	126	108.8	140.0	131.9	140.0	92.8	124.3	140.0	97.9	121.0	140.0	--
38	126	126.3	140.0	140.0	140.0	102.7	126.3	140.0	109.0	126.1	140.0	140.0
42	126	119.4	140.0	127.8	140.0	88.8	118.7	140.0	93.4	113.8	140.0	140.0
48	126	102.4	136.5	122.6	140.0	77.5	103.9	128.9	81.8	102.3	121.7	140.0
54	126	91.0	108.0	108.9	126.0	69.3	92.4	108.0	72.8	90.8	108.0	126.0
60	126	82.0	102.0	96.1	126.0	62.4	83.2	104.1	65.5	81.8	96.3	126.0

5 TRACK HEADSILL ANCHORAGE CAPACITY CHARTS

NOTE:
SEE SHEET 11 FOR ANCHOR TYPES AND ANCHOR CAPACITIES LISTED ON THIS SHEET TO BE USED IN CONJUNCTION WITH GUARDRAIL OR GROUND ANCHORAGE CHARTS IN THIS DOCUMENT.
LOWER ALLOWABLE VALUES CONTROL.

THIS DRAWING IS THE PROPERTY OF WINDOOR INC. AND IS NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF WINDOOR INC.

WINDOOR®

5 TRACK HEADSILL ANCHORAGE CAPACITY CHARTS

SCALE: NONE

SHEET 16

DATE: 10/2015

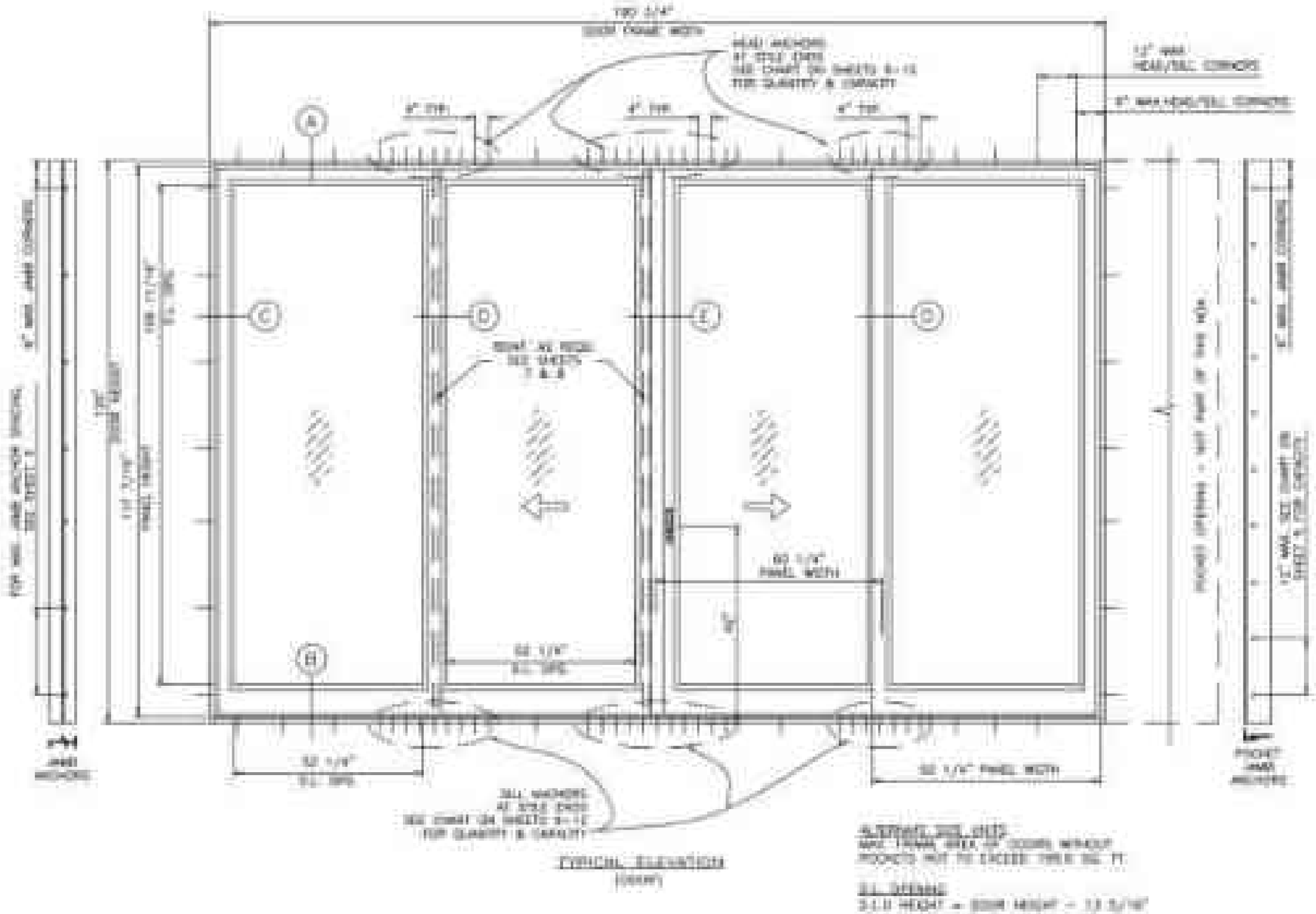
DRAWING NO.

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDED ANCHOR TYPE 'E'	10/15

ROBERT LYNN MILLER
LICENSE
No. 34775
STATE OF
TEXAS
PROFESSIONAL ENGINEER
R. LYNN MILLER, P.E.
P.E. # 34775

2 TRACK ELEVATION AND ANCHORAGE



NO CHANGES THIS SHEET

NO.	REVISIONS	BY
1	ADDENDUM #1	

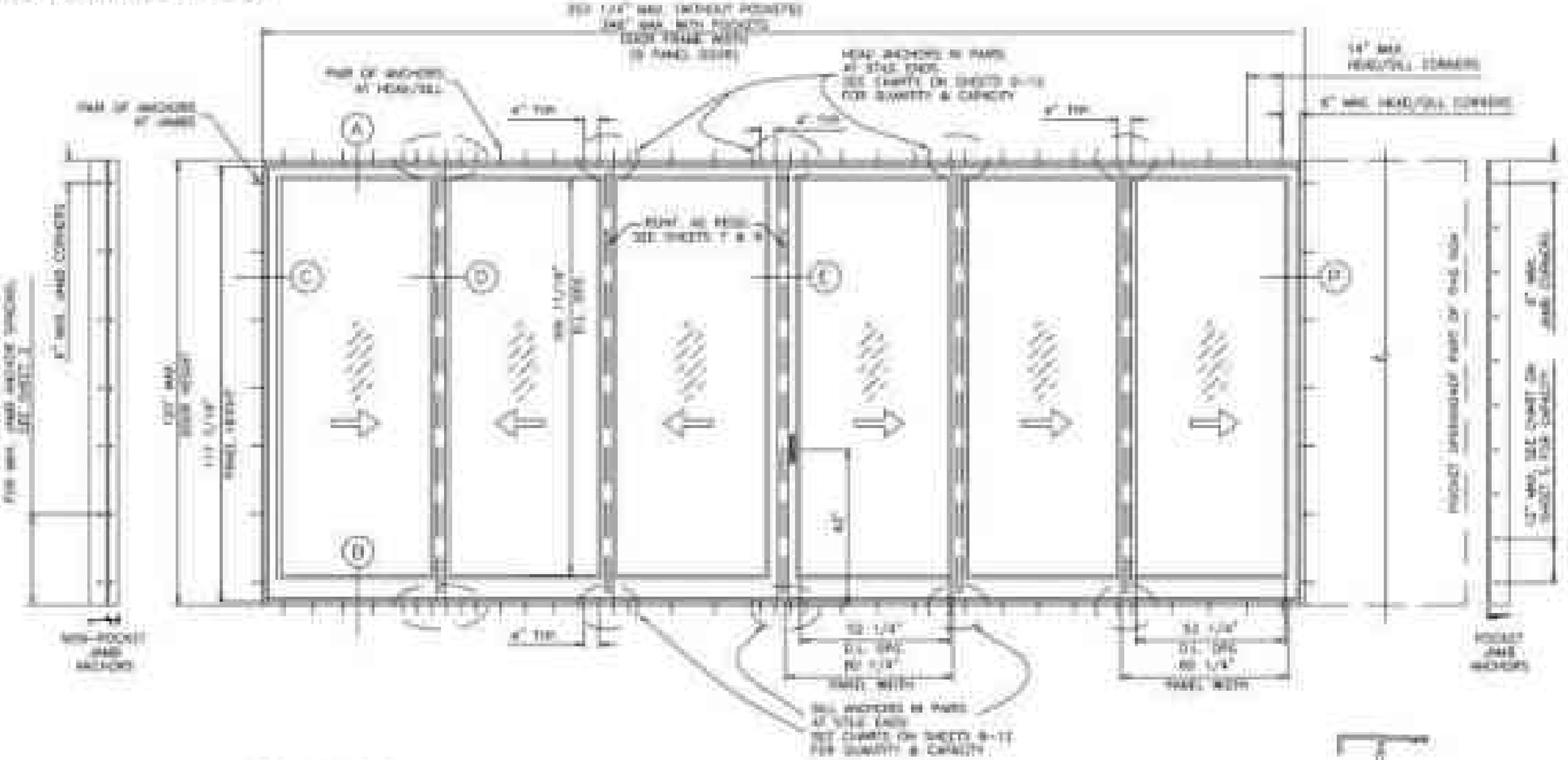
WINDOOR

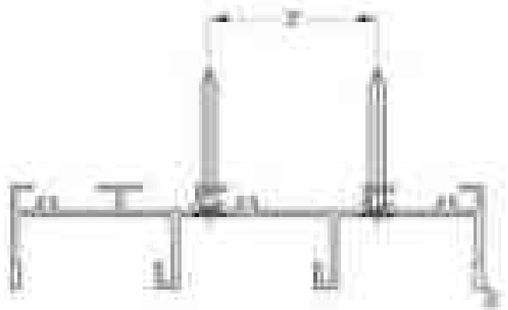
PROJECT NAME AND ADDRESS
HOUSE OF WORSHIP
SHEET TITLE
ELEVATIONS

SHEET NO.
A-5

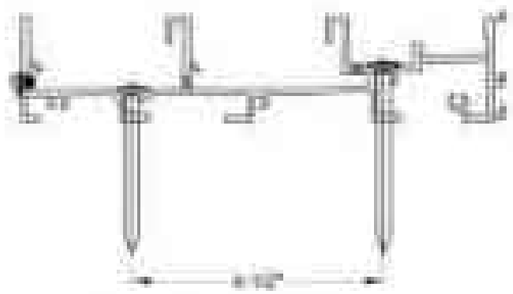
ARCHITECT
ROBERT LYNN MILLER
LICENSE
No. 24702
REGISTERED PROFESSIONAL ENGINEER
R. LYNN MILLER P.E.
P.O. BOX 0000

3 TRACK ELEVATION AND ANCHORAGE

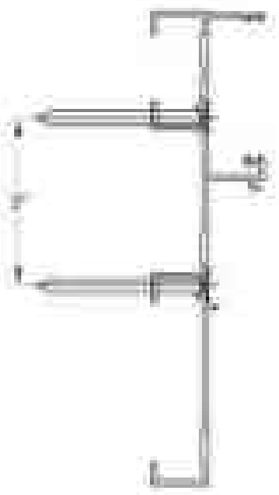




3 TRACK HEAD ANCHOR PAIRS



3 TRACK SILL ANCHOR PAIRS

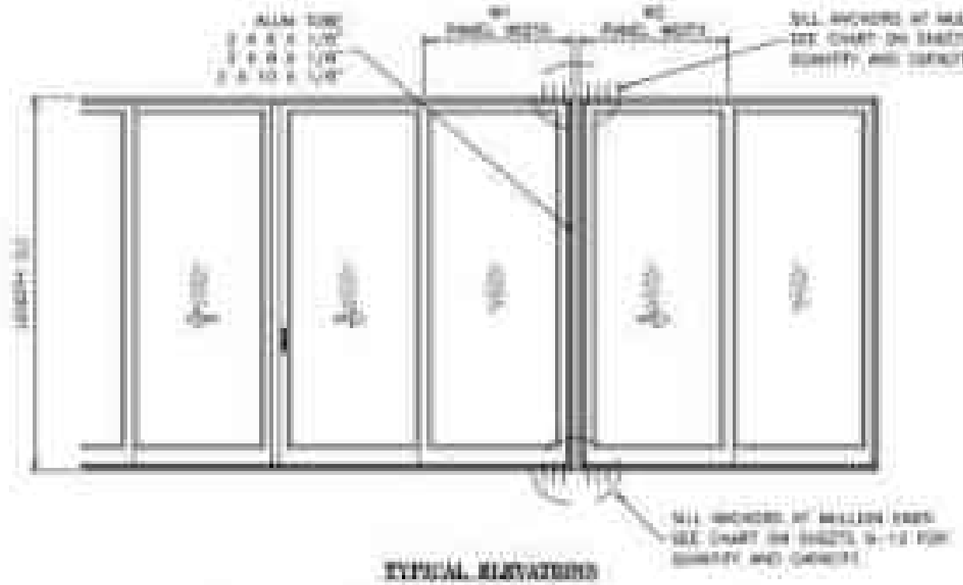


3 TRACK JAMB ANCHOR PAIRS

WINDOOR

ARCHIVED LYNN MILLER
LICENSE
No. 24705
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

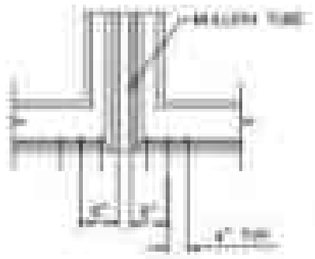
LYNN MILLER P.E.
P.E. # 24705



TYPICAL ELEVATIONS
SIDE BY SIDE SILL ANCHOR
SIDE BY SIDE APPLIES TO TWO OR MORE DOORS

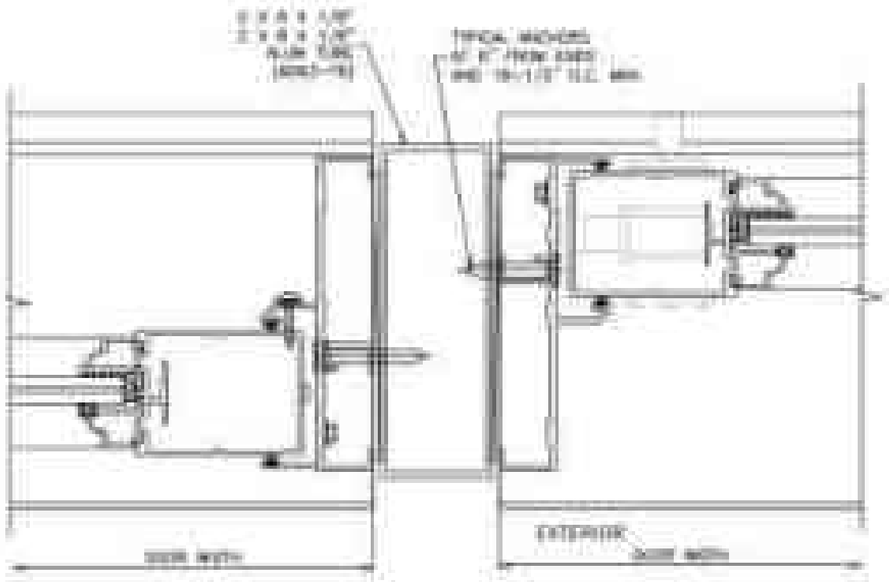
$$\text{WIDTH (W)} = \frac{W1 + W2}{2} + 2$$

W1 = SIZE PANEL WIDTH
W2 = SIZE PANEL WIDTH

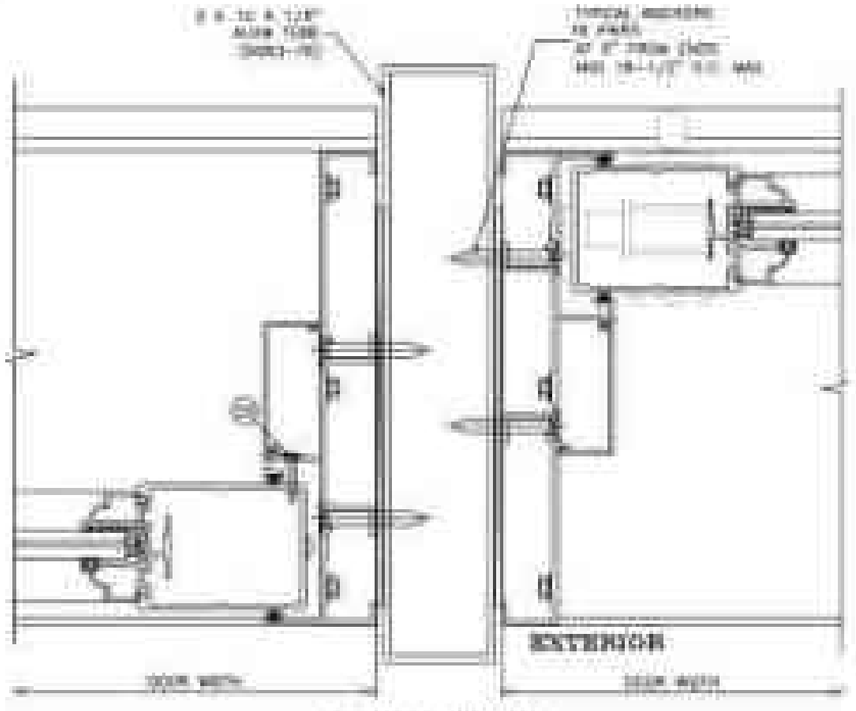


CENTER OF ANCHOR
HEAD/SILL

NOTES:
1. USE CHART ON SHEET 14 FOR SIDE BY SIDE CONNECTION CAPACITY OF DOOR MULLION.
2. FOR SLIDING GLASS DOOR CAPACITY SEE SHEETS 7 & 8.
3. USE CHARTS ON SHEETS 9-12 TO SELECT ANCHOR ARRANGEMENT AT MULLION ENDS.
4. LOWER VALUES FROM STEPS 1, 2 OR 3 WILL APPLY TO ENTIRE SYSTEM.



ENCLOSED MULLION



ENCLOSED MULLION

WINDOOR®

NORMA ALUM SLIDING GLASS DOOR SYSTEMS

NO CHANGES THIS SHEET

REGISTERED PROFESSIONAL ENGINEER

TABLE 17

DESIGN LOAD CAPACITY - PSF				
DESIGN		2 X 6 X 1.08"	2 X 6 X 1.08"	2 X 10 X 1.08"
WIDTH (W) INCHES	LENGTH (L) INCHES	POS.(+) NEG.(-)	POS.(+) NEG.(-)	POS.(+) NEG.(-)
28-1/8	84	140.0	140.0	140.0
30-1/8		140.0	140.0	140.0
36-1/8		140.0	140.0	140.0
44-1/8		140.0	140.0	140.0
50-1/8		140.0	140.0	140.0
58-1/8		140.0	140.0	140.0
62-1/8		140.0	140.0	140.0
28-1/8	96	140.0	140.0	140.0
32-1/8		140.0	140.0	140.0
36-1/8		140.0	140.0	140.0
44-1/8		140.0	140.0	140.0
50-1/8		138.0	140.0	140.0
58-1/8		140.0	140.0	140.0
62-1/8		136.0	140.0	140.0
28-1/8	108	140.0	140.0	140.0
32-1/8		140.0	140.0	140.0
36-1/8		140.0	140.0	140.0
44-1/8		140.0	140.0	140.0
50-1/8		138.8	140.0	140.0
58-1/8		129.0	140.0	140.0
62-1/8		113.1	140.0	140.0
28-1/8	120	140.0	140.0	140.0
32-1/8		140.0	140.0	140.0
36-1/8		140.0	140.0	140.0
44-1/8		135.4	140.0	140.0
50-1/8		116.7	140.0	140.0
58-1/8		100.4	140.0	140.0
62-1/8		93.4	130.8	140.0
28-1/8	144	140.0	140.0	140.0
32-1/8		140.0	140.0	140.0
36-1/8		138.1	140.0	140.0
44-1/8		115.7	140.0	140.0
50-1/8		97.6	140.0	140.0
58-1/8		85.1	126.5	140.0
62-1/8		79.7	120.1	140.0
28-1/8	114	140.0	140.0	140.0
32-1/8		139.3	140.0	140.0
36-1/8		108.8	140.0	140.0
44-1/8		88.1	140.0	140.0
50-1/8		82.8	139.8	140.0
58-1/8		74.1	124.8	140.0
28-1/8	120	136.1	140.0	140.0
32-1/8		110.7	140.0	140.0
36-1/8		93.9	140.0	140.0
44-1/8		84.7	140.0	140.0
50-1/8		77.1	129.8	140.0
58-1/8		69.0	116.9	140.0

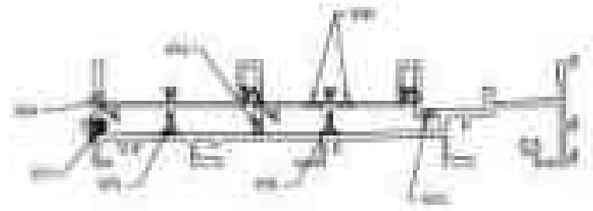
3 TRACK WEEP HOLES

W1 = 28" X 1-3/8" WEEP SLOTS WITH PLASTIC COVER
AT 8" FROM EACH END AND 4-0" O.C.

W2 = 1/4" X 2" WEEP SLOTS
AT 8" FROM EACH END AND 4-0" O.C.

W3 = 1/2" X 3/4" WEEP HOLES
AT 8" FROM EACH END AND 4-0" O.C.

W4 = 1/2" X 3/4" WEEP HOLES
AT 4-0" O.C.

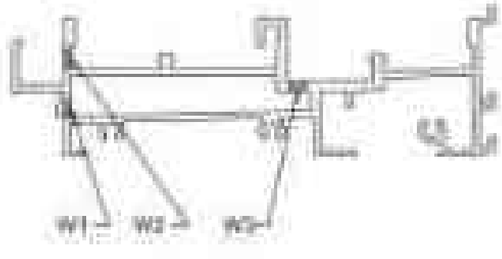


2 TRACK WEEP HOLES

W1 = 28" X 1-3/8" WEEP SLOTS WITH PLASTIC COVER
AT 8" FROM EACH END AND 4-0" O.C.

W2 = 1/4" X 2" WEEP SLOTS
AT 8" FROM EACH END AND 4-0" O.C.

W3 = 1/2" X 3/4" WEEP HOLES
AT 8" FROM EACH END AND 4-0" O.C.



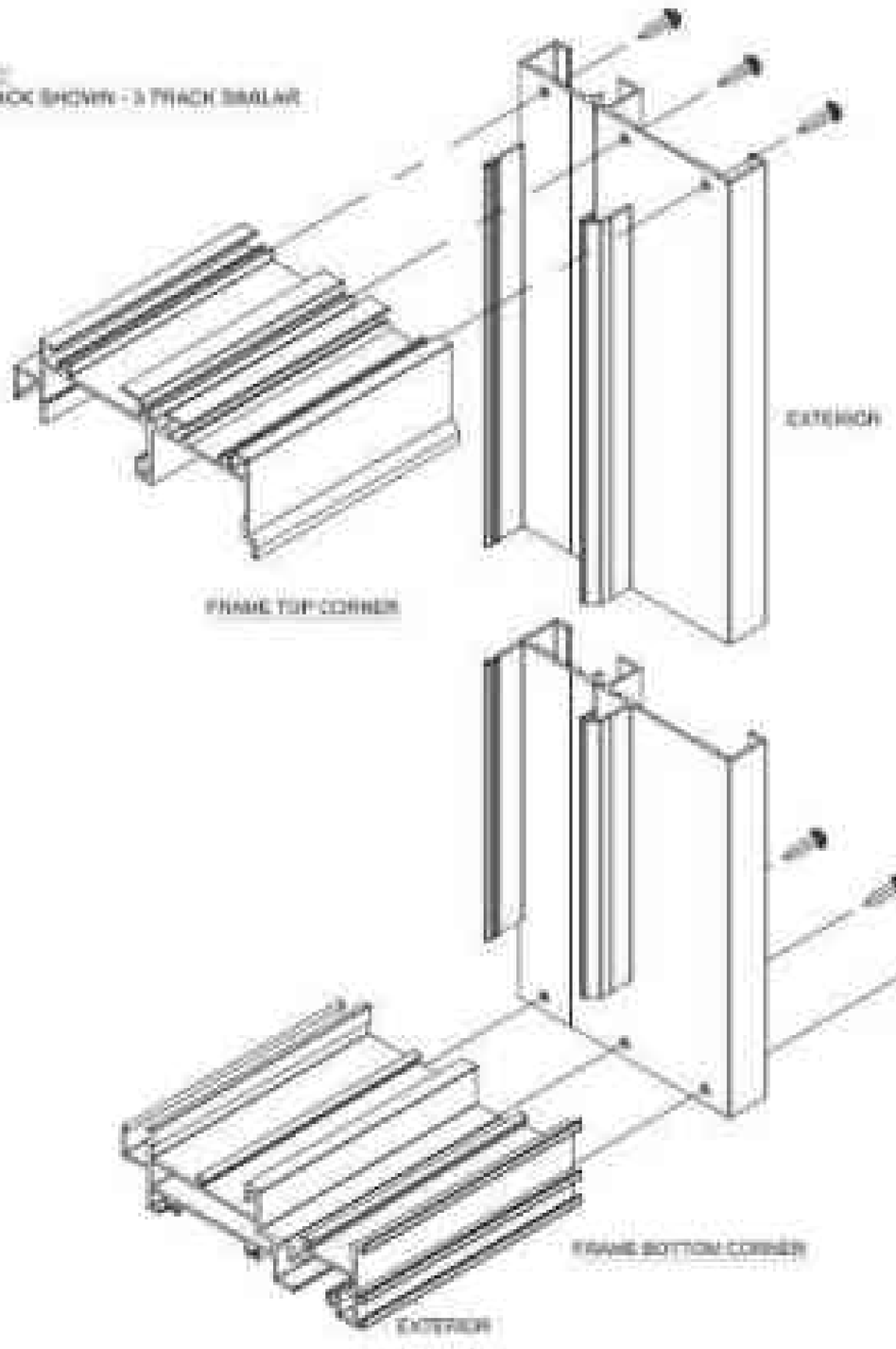
WINDOOR

NO CHANGES TO THIS SHEET

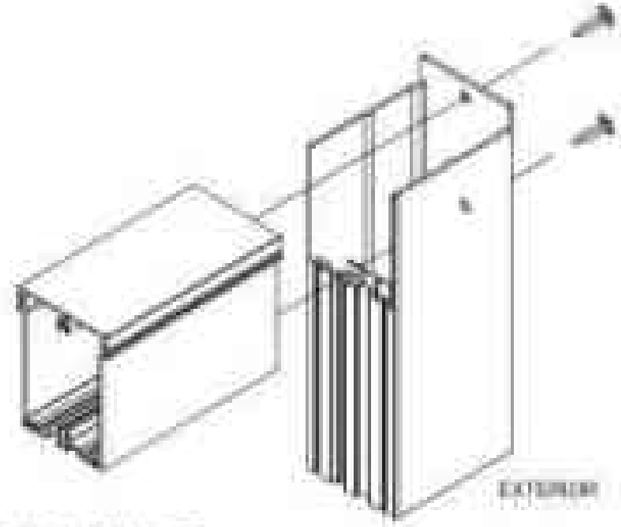
NO.	DESCRIPTION	DATE
1	ADDENDUM	10/15/2015
2	ADDENDUM	11/19/2015
3	ADDENDUM	12/18/2015
4	ADDENDUM	1/15/2016

DONALD LYNN MILLER
No. 24702
PROFESSIONAL ENGINEER

NOTE:
2 TRACK SHOWN - 3 TRACK SIMILAR

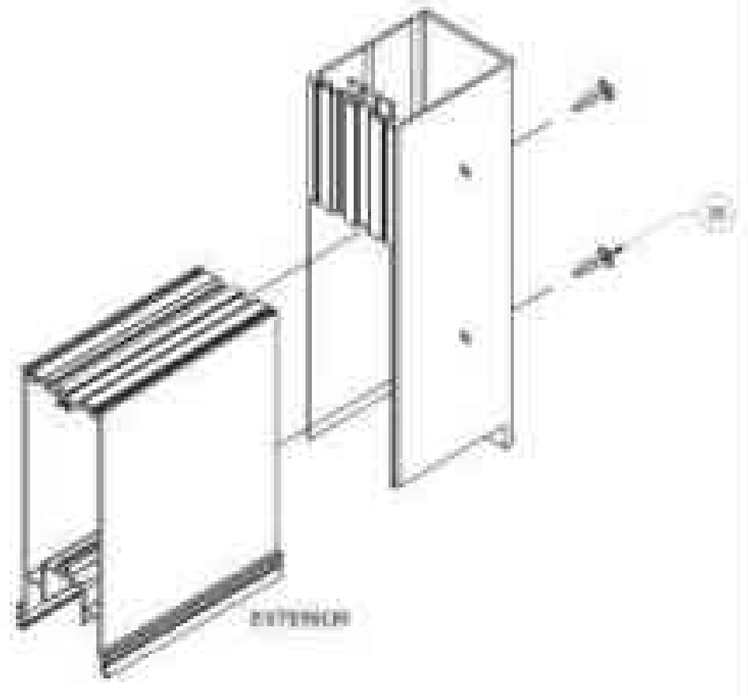


FRAME TOP CORNER



PANEL TOP CORNER

FRAME BOTTOM CORNER



PANEL BOTTOM CORNER

WINDOOR

NO CHANGES THIS SHEET

4		
3		
2		
1		
NO.	DESCRIPTION	DATE

ALUMINUM SLIDING GLASS DOOR, FIXED PANEL

INTERIOR FINISH

EXTERIOR FINISH

ROUGH OPENING

OVERALL SIZE

DRAWING NO.

SCALE: NONE

DRAWN BY:

CHECKED BY:

DATE:

ANTHONY LYNN MILLER
LICENSE
No. 34705
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.O. BOX 00000

1 2-TRACK FRAME HEAD

2 2-TRACK FRAME SILL

3 3-TRACK FRAME JAMB

4 3-TRACK FRAME JAMB

5 3-TRACK FRAME HEAD

6 3-TRACK FRAME SILL

7 TRACK INSERT

8 JAMB COVER

9 SILL RISER (HI-RISE)

10 GLASS ADAPTER (COLONIAL)

11 FIX. PANEL SASE

12 INTERLOCK STILE

13 ASTRAGAL STILE

14 TOP RAIL

15 GLAZING BEAD (COLONIAL)

16 GLASS ADAPTER (SQUARE)

17 STEEL REINFORCING

18 BOTTOM RAIL

19 JAMB LOCK STILE

20 SILL RISER (STANDARD)

21 GLASS ADAPTER (LIG GLASS)

22 GLAZING BEAD (SQUARE)

23 POCKET DOOR HOOK

NO CHANGES THIS SHEET

WINDOOR



TABLE 10

Bill of Materials			
Item #	Part #	Description	Material
1	CGI-550	2 Track Frame Head	6063-T6
2	CGI-551	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-T6
8	CGI-576	Jamb 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-553	Sill Riser (Standard)	6063-T6
15	CGI-554	Sill Riser (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 (Insul. Lam. Glass)	6063-T6
21	CGI-580	Fin Panel Rake, 2" Long	6063-T6
22	CGI-560	Stile Reinforcing	6063-T6
23	CGI-577	Pocket Door Hook	6063-T6
24	Varies	Wood Pile Weatherstripping With Fin	Pile
25	CGI-3827	Glazing Bead Bulb	Vinyl
26	Silicone	Structural Silicone	Rubber
27	CGI-584	Anti-Lift Block	UL #4 Nylon
28	CGI-585	Adhesive Backed Pile Pad (.394" High)	Pile
29	TA-5JL or TA-84	Tandem 5/8 Roller	5/8
30	CR-200	M.S. Commercial Hook Bolt Lock	1/2 Mech.
31	CR-107	Brass Thumbturn	Brass/Zinc
32	CR-109	Brass Keyed Extension Cylinder	Brass/Zinc
33	CGI-561	.650" X 3 1/8" S/S Keeper	S/S
34	Screw (Frame)	#12 X 1 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 TRIO S/S	S/S
37	Screw	#10 X 1 1/2" Pan Head TORX S/S	S/S
38	CGI-586	Rubber Seal	Rubber/Foam
39	Sidelight Jamb Clip	3" Long (3 x (W) "U" Configuration)	Alum.
40	Hi-Tie Wedge®	Wedge Body and Cover	Nylon
41	-	Setting Block	EPDM
42	WS-128	Adhesive Backed Pile Pad (2.75" X .3" X .68")	Pile
43	WS-597	Adhesive Backed Pile Pad (1.1" X .54" X .42")	Pile

3 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

3 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 PXXP: [FRAME WIDTH + 4-7/16"]/2 = PANEL WIDTH
FOR PXXXP: [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 PXXP: PANEL WIDTH x 2 - 4-7/16" = FRAME WIDTH
FOR PXXXP: 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 PXXXXP: [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 PXXXXP: PANEL WIDTH x 6 - 19-1/8" = FRAME WIDTH
FOR PXXXXX: PANEL WIDTH x 6 - 12-1/16" = FRAME WIDTH

WINDOOR

