Engineering Evaluation Report #238-101524

Prepared by:
A. Lynn Miller, P.E.
1070 Technology Dr.
N. Venice, FL 34275
(941) 480-1600
Registration Number: #29296

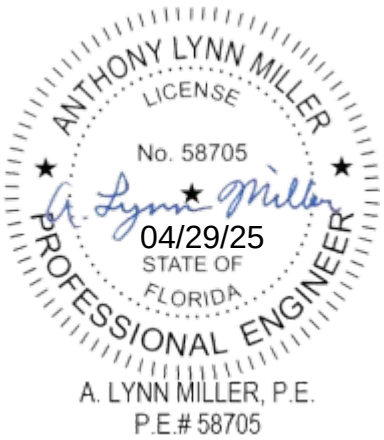
Manufacturer:
WinDoor Incorporated
104 Triple Diamond Blvd.
North Venice, FL 34275
(833) 554-5432

Product Description:
PW 238 Series Aluminum LMI HVHZ Fixed Window – FL15709

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 PW238DLMI-FPA, signed and sealed by A. Lynn Miller, P.E.
2. Test Report CTLA-3056 WA, B and C dated 03/03/15 and 04/16/15, prepared by Certified Test Laboratories, signed and sealed by Ramesh C. Patel. P.E.; Testing Standards: TAS 201-94, TAS 202-94 & TAS 203-94
3. Test Report HETI-08-2143, 08-2144, 07-4287 and 07-4298, dated 06/27/08 and 07/17/08 prepared by Hurricane Test Laboratory, Inc., signed and sealed by Candido F, Font P.E.; Testing Standards: TAS 201-94, TAS 202-94 & TAS 203-94
4. Test Report HTL- 0080-0301-07, 0905-07, 0080-0303-96, 1107-98, 1127-98,0606-99, 1020-99 AMD 0203-99 dated 10/10/06, 08/28/07, 03/06/96, 09/08/96, 11/10/98, 12/23/98, AND 02/05-15/99, 06/07/99 and 10/28/99 prepared by Hurricane Test Laboratory, signed and sealed by Vinu J. Abraham and Timothy S. Marshal P.E.; Testing Standards: TAS 201-94, TAS 202-94 & TAS 203-94
5. Test Report ATL-1209.01-94 dated 02/20/65, prepared by American Test Lab of South Florida, Inc, signed and sealed by Gerard B. Sullivan, P.E.; Testing Standards: TAS 201-94, TAS 202-94 & TAS 203-94
6. Anchor Calculations and Structural Analysis, dated 09/21/17, prepared by Al-Farooq Corporation, and signed and sealed by Javad Ahmad

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.
- Units must be installed in accordance with Approval Document.



FLORIDA PRODUCT APPROVAL #15709

THESE WINDOWS ARE RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

SERIES 238 ALUMINUM FIXED WINDOWS - LARGE MISSILE

1) THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2) 1ST OR 2ND WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

3) 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.

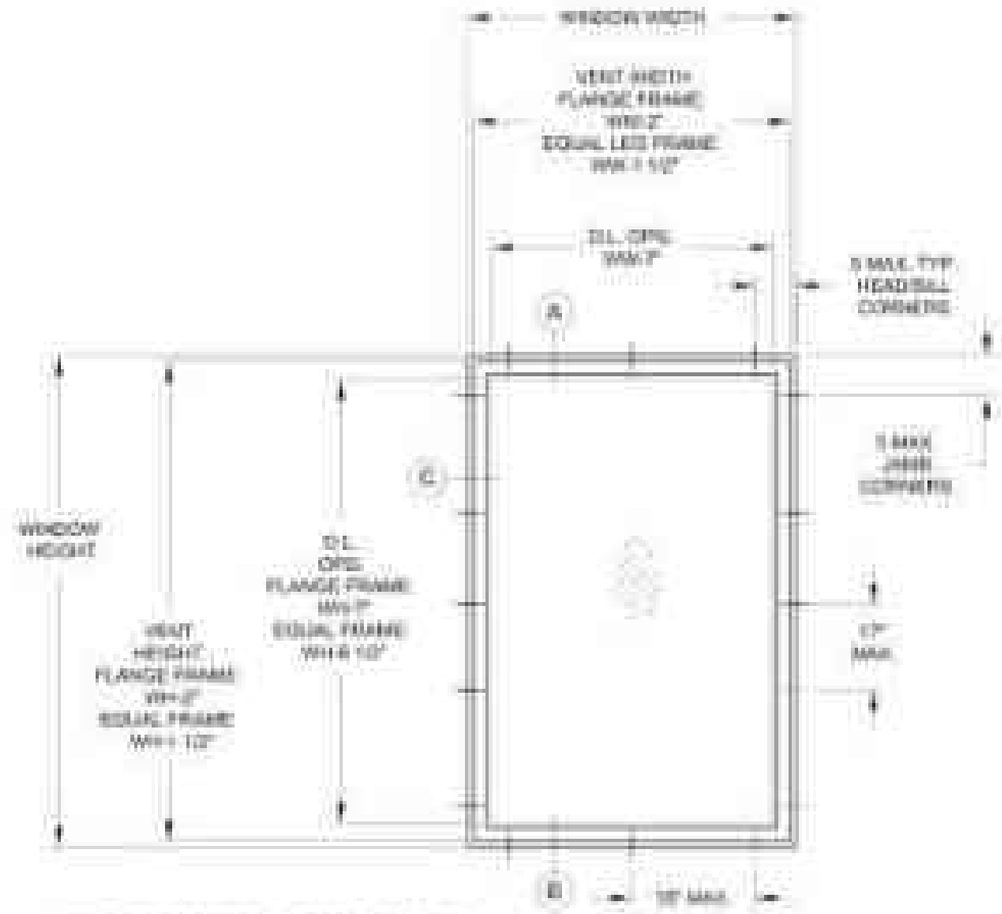
4) A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

5) ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

6) MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

7) THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR THE SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND THE SEALING AROUND THE OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

8) ALL TEMPERED AND LAMINATED GLASS OPTIONS IN THIS APPROVAL HAVE BEEN CERTIFIED BY THE SGCC FOR COMPLIANCE TO ANSI Z97.1, CLASS A AND CPSC 16 CFR 1201, CATEGORY II. THIS INCLUDES LAMINATED GLASS THAT IS MANUFACTURED WITH ANNEALED GLASS PLIES. FOR APPLICATIONS WHERE THE WINDOW IS BEING USED AS A GUARD, WH OR T/T LAMINATED GLASS MUST BE USED.



MAX. ANCHOR SPACING TO BE AS FOLLOWS:
17" O.C. ON LONGER SIDES
9" O.C. ON SHORTER SIDES.

TYPICAL ELEVATION

INSTRUCTIONS:
USE CHARTS AS FOLLOWS:

STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 2: SEE CHARTS ON SHEETS 4 THRU 6 FOR DESIGN LOAD CAPACITY OF GLAZED GLASS SIZE/TYPE.

STEP 3: USING CHART ON SHEETS 8 & 10 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 4: IF ALUMINUM BUCK SYSTEM IS USED USE CHART ON SHEETS 11 & 12 TO DETERMINE CAPACITY.

STEP 5: THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

ADDED SETTING BLOCKS	4/25/25	B
	1/28/23	A

WINDOOR®

SERIES 238 ALUM. FIXED WINDOW - LARGE MISSILE IMPACT

ELEVATION & GENERAL NOTES

PW2238LMFPA

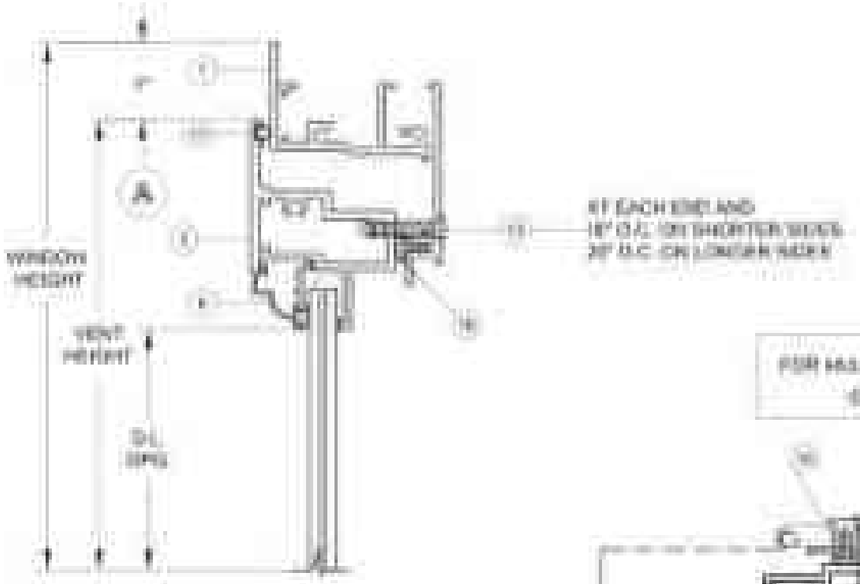
1 OF 12

PAGE

ANTHONY LYNN MILLER
LICENSE
No. 86705
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
4 LYNN MILLER, P.E.
C.A.# 32120

GENERAL WINDOW SECTIONS

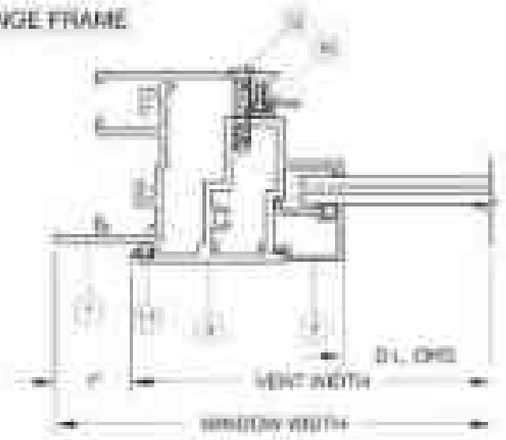
FLANGE FRAME



EXTERIOR

C

FLANGE FRAME

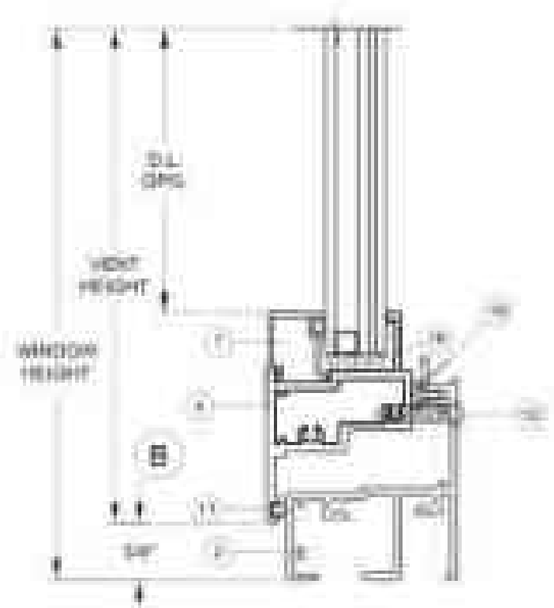


EXTERIOR

FOR MULLION/MULTIPLE UNITS, REFER TO
SEPARATE MULLION S.O.A.



EQUAL LEG FRAME



EQUAL LEG FRAME

ADDED SETTING BLOCKS	4/25/25

WINDOW SHOP ALUM. FIXED WINDOW SERIES

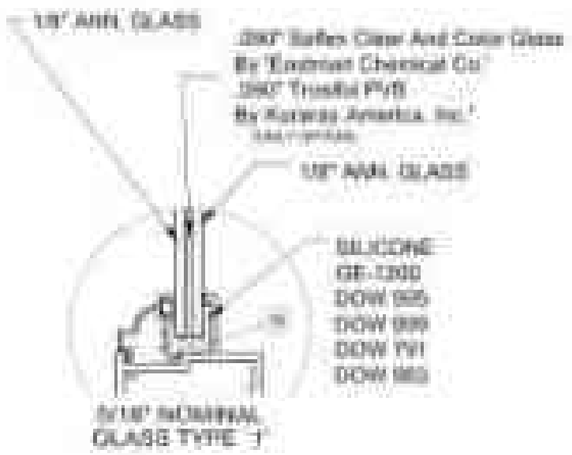
SECTION DETAILS

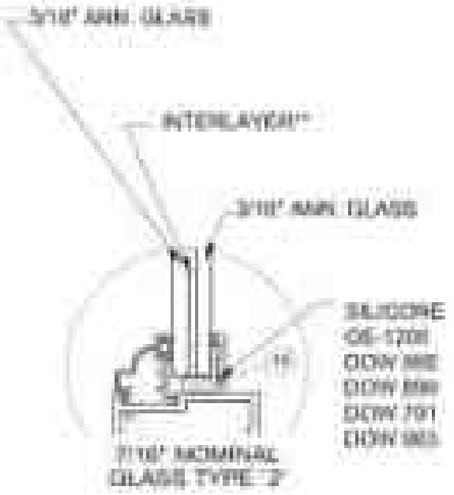
PW2SFW-FPA

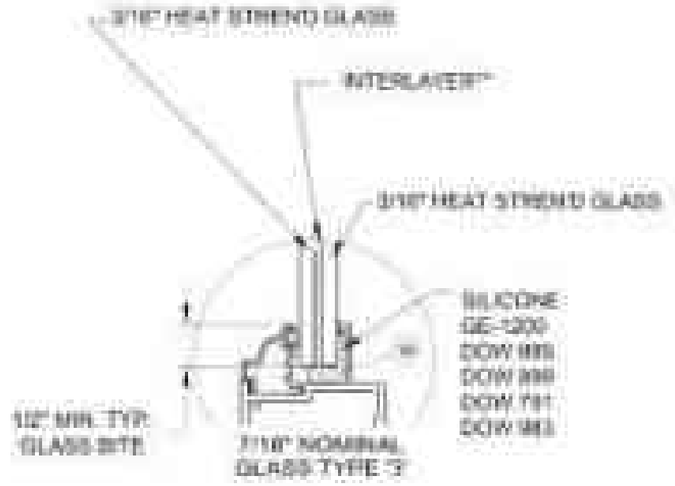
PAGE 2 OF 12

WINDOR

ANTHONY LYNN MILLER
License
No. 66705
STATE OF
FLORIDA
PROFESSIONAL ENGINEER







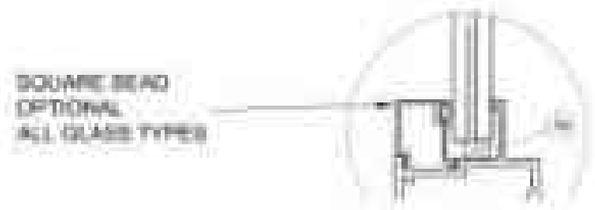
** INTERLAYER OPTIONS

.075" Saflex DT With PET Core
By Eastman Chemical Co.*

.030" Saflex Clear And Color Glass
By Eastman Chemical Co.*

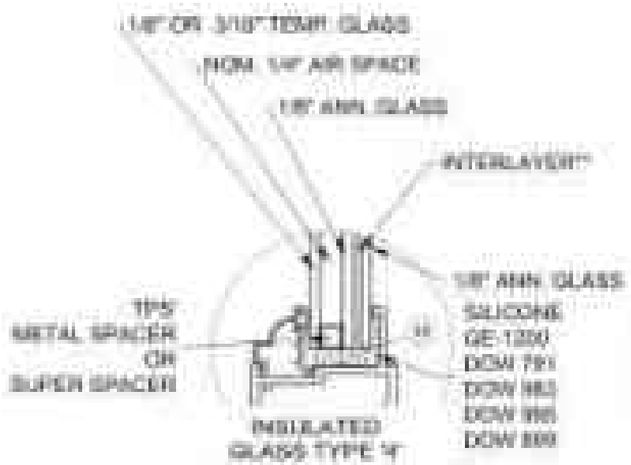
.030" SentryGlas
By Kuraray America, Inc.*

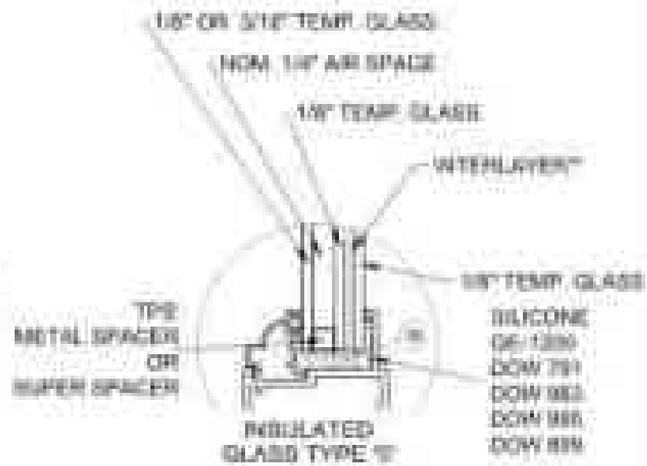
.090" Trosifol PVB
By Kuraray America, Inc.*



PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS

WINDOW SIZES		GLASS TYPE "1"		GLASS TYPE "2"		GLASS TYPE "3"	
WIDTH	HEIGHT	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)
24-1/8" 36-1/2" 37" 53-1/8"	54"	1344	1052	1344	1052	1344	1052
		1344	1052	1344	1052	1344	1052
		1344	1052	1344	1052	1344	1052
		1344	1052	1344	1052	1344	1052
24-1/8" 36-1/2" 37" 53-1/8"	36-3/8"	1344	1052	1344	1052	1344	1052
		1344	1052	1344	1052	1344	1052
		1344	1052	1344	1052	1344	1052
		1344	1052	1344	1052	1344	1052
24-1/8" 36-1/2" 37" 53-1/8"	84-1/8"	1344	1052	1344	1052	1344	1052
		1344	1052	1344	1052	1344	1052
		1344	1052	1344	1052	1344	1052
		1344	1052	1344	1052	1344	1052
24-1/8" 36-1/2" 37" 53-1/8"	97"	1344	1052	1344	1052	1344	1052
		1344	1052	1344	1052	1344	1052
		1344	1052	1344	1052	1344	1052
		1344	1052	1344	1052	1344	1052
24-1/8" 36-1/2" 37" 53-1/8"	78-1/8"	1344	1052	1344	1052	1344	1052
		1344	1052	1344	1052	1344	1052
		1344	1052	1344	1052	1344	1052
		1344	1052	1344	1052	1344	1052



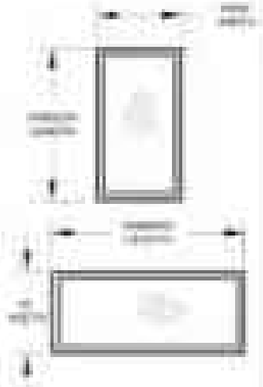


6	ADDED SETTING BLOCKS	M.S.	6/9/23
	SERIES 700 IMPACT RATED WINDOW (I.W.)		
	GLASS TYPES / PERFORMANCE		
	WINDOW	3 OF 12	
	PW2236		

WINDOOR®

ANTHONY LYNN MILLER
License
No. 86705
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN BELOW.



NOTE: LOAD AREA LIMITS
+110, -105 PSF = 10.0 SQ. FT.
+90, -90 PSF = 24.0 SQ. FT.
+65, -50 PSF = 49.0 SQ. FT.
+100, -120 PSF = 16.0 SQ. FT.
+75, -75 PSF = 35.0 SQ. FT.

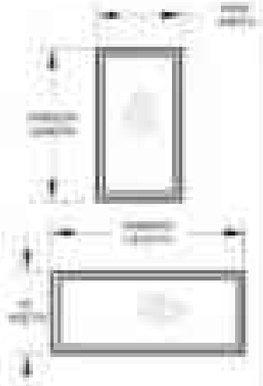
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E 1300-09 (2) DEC. GUESS).
REFER TO SHEET 7 THRU 12 FOR INSTALLATION DETAILS.

WINDOOR
WINDOW & DOOR MFG. CORP.
2311 NW 22nd AVENUE
POMPANO BEACH, FLORIDA 33069
(954) 971-4000

SERIES 3750 FIXED WINDOW WITH ADDED SETTING BLOCKS
GLASS PERFORMANCE VALUES
IMPACT & NON-IMPACT
DRAWING NO. 3750-FW-A
SCALE: NTS
SHEET NO. 6 OF 12
REVISIONS

ANTHONY LYNN MILLER
LICENSE
No. 38705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN BELOW.



NOTE: LOAD AREA LIMITS
+11G -136 PSF = 9.32 SQ. FT.
+11G -120 PSF = 10.2 SQ. FT.
+8L -80 PSF = 24.0 SQ. FT.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E 1300-09 (3 SEC. GUSTS).

ADDED SETTING BLOCKS

NO.	DESCRIPTION	DATE
1	PER ENGINEER	7/19/21
2	ADDED SETTING BLOCKS	8/25/21

WINDOOR
WINDOW & DOOR MFG. CORP.
2311 NW 22nd AVENUE
POMPANO BEACH, FL 33069
(954) 971-4000

SERIES 5700 FIXED WINDOW WITH INSULATED GLASS

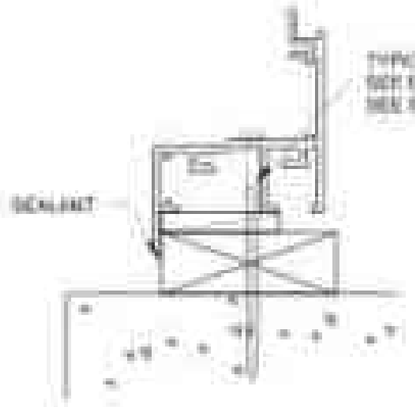
GLASS PERFORMANCE VALUES

SHEET	REVISION
5 OF 12	2

ANTHONY LYNN MILLER
LICENSE
No. 56705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

INSTALLATION CONDITIONS FLANGE FRAME (APPLIES TO ALL FOUR SIDES)

FOR ANCHOR PERFORMANCE VALUES SEE SHEETS 8



INSTALLATION TYPE 'B'

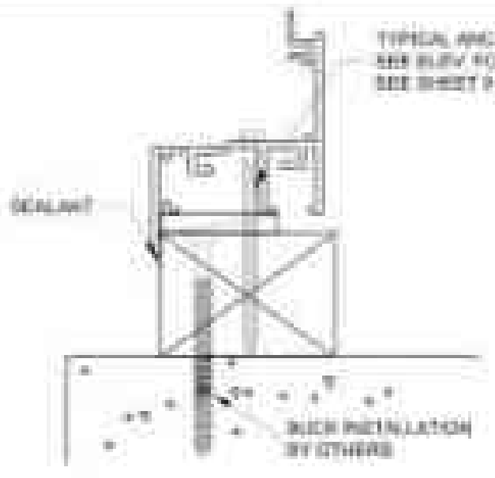


WOOD BUCK TYPE 'B'
MATERIAL PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES USING WOOD



ATTACHMENT TO
METAL STRUCTURES



INSTALLATION TYPE 'A'



WOOD BUCK TYPE 'A'
MATERIAL PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES USING WOOD



ATTACHMENT TO
APPROVED MULLIONS

WOOD BUCKS NOT BY WINDOOR INC. MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE

ADDED SETTING BLOCKS	10/9/23	B
REVISED PER FBC 8TH ED. (2023)	1/26/23	A
PRODUCT APPROVAL		

WINDOOR®

SERIES 750 IMPACT CASEMENT WINDOW

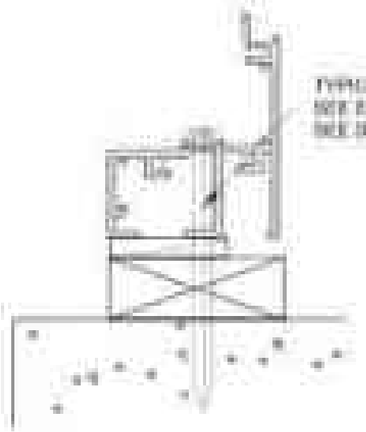
ANCHOR INSTALLATION 2

PAGE 11 OF 12

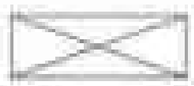
ANTHONY LYNN MILLER
LICENSE
No. 86705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

INSTALLATION CONDITIONS EQUAL LEG FRAME (APPLIES TO ALL FOUR SIDES)

FOR ANCHOR PERFORMANCE VALUES SEE SHEET 5.0



INSTALLATION TYPE 2

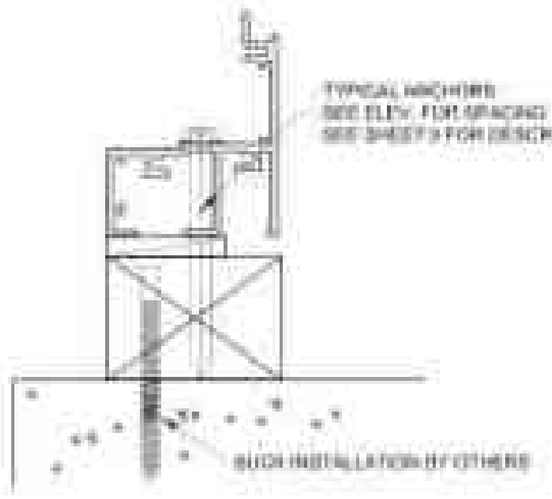


WOOD BUCK TYPE 2
MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES (SYSTEMS WOOD)



ATTACHMENT TO
METAL STRUCTURES

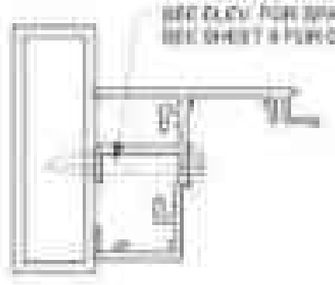


INSTALLATION TYPE 3



WOOD BUCK TYPE 2
MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES (SYSTEMS WOOD)



ATTACHMENT TO
APPROVED BUILDING

WOOD BUCKS NOT BY WINDOOR INC MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE

6	ADDED SETTING BLOCKS	4/29/25

WINDOOR

SERIES CSP ALUM. FIXED WINDOW WITH MOMENT FRAME

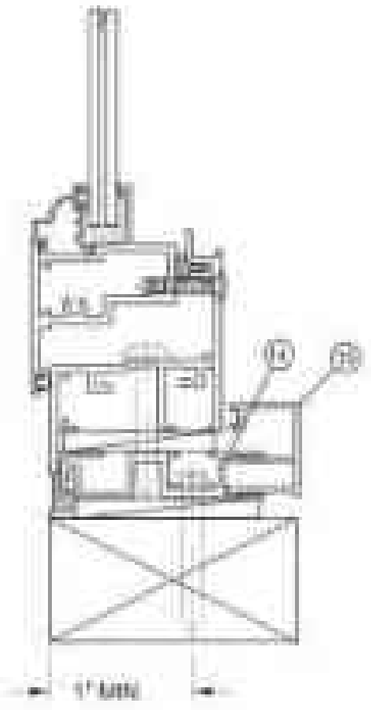
ANCHOR INSTALLATION 3

PW20E | 7 OF 12

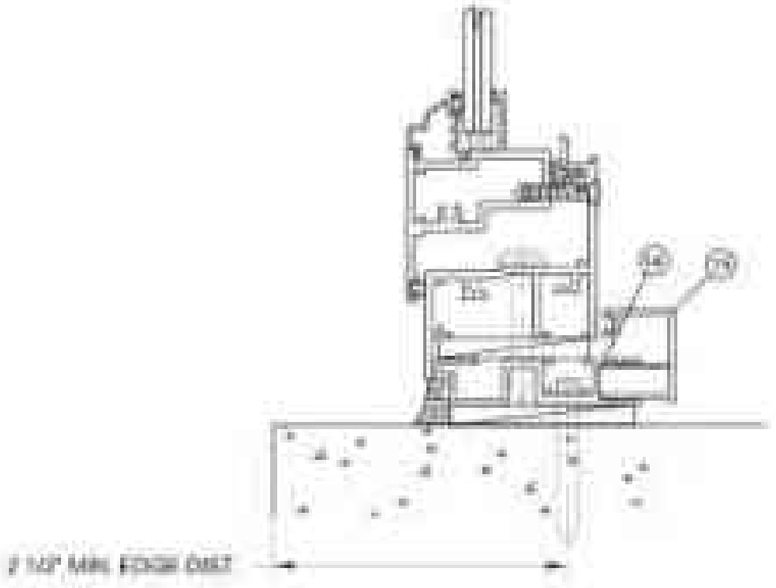
ANTHONY LYNN MILLER
License
No. 86705
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

ALUMINUM BUCK FRAMING DETAIL

REFER TO SHEETS 3 THRU 5 FOR WINDOW OPINGTIOS
USE LOWER APPLICABLE VALUES.



INSTALLATION TYPE 'I'
2BY WOOD BUCK OR WOOD STRUCTURES



INSTALLATION TYPE 'II'
ON ALL FOUR SIDES USING ALUMINUM BUCK SYSTEM

ADDED SETTING BLOCKS | M.S.S.S. | 6

WINDOOR

SERIES 7000 ALUMINUM FIXED WINDOW

ALU-BUCK DETAILS

PW28 | 8 OF 12

J.A. MORENO

DATE

SCALE

PROJECT NO.

ANTHONY LYNN MILLER
LICENSE
No. 39705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

PERFORMANCE VALUES OF INSTALLATION ANCHORS
REFER TO SHEETS 7 & 8 FOR DETAILS

WINDOW / DOOR WIDTH	WINDOW / DOOR HEIGHT	RATING (+) / (-)
24"	36"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0
24"	48"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0
24"	60"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0
24"	72"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0

NOTE:
INTERPOLATION BETWEEN SIZES ALLOWED.

PERFORMANCE VALUES OF INSTALLATION ANCHORS
REFER TO SHEETS 7 & 8 FOR DETAILS

WINDOW / DOOR WIDTH	WINDOW / DOOR HEIGHT	RATING (+) / (-)
24"	36"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0
24"	48"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0
24"	60"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0
24"	72"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0

PERFORMANCE VALUES OF INSTALLATION ANCHORS
REFER TO SHEETS 7 & 8 FOR DETAILS

WINDOW / DOOR WIDTH	WINDOW / DOOR HEIGHT	RATING (+) / (-)
24"	36"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0
24"	48"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0
24"	60"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0
24"	72"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0

PERFORMANCE VALUES OF INSTALLATION ANCHORS
REFER TO SHEETS 7 & 8 FOR DETAILS

WINDOW / DOOR WIDTH	WINDOW / DOOR HEIGHT	RATING (+) / (-)
24"	36"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0
24"	48"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0
24"	60"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0
24"	72"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0

PERFORMANCE VALUES OF INSTALLATION ANCHORS
REFER TO SHEETS 7 & 8 FOR DETAILS

WINDOW / DOOR WIDTH	WINDOW / DOOR HEIGHT	RATING (+) / (-)
24"	36"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0
24"	48"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0
24"	60"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0
24"	72"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
78"		100.0
84"		100.0
90"		100.0
96"		100.0



NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE
INTERPOLATION BETWEEN SIZES ALLOWED

TYPICAL ANCHORS:

Anchor Type	Description	Substrate	Frame Minimum	Min. Edge Distance	Min. Embedment or Metal Thickness
A	1/4" [6A - 18A] Buttress II	Min. 25Y Wood Stud or Wood Structure	All	1"	1-1/2"
		Thru 18Y Block into Concrete or Masonry	All	2-1/2"	1-1/4"
		Directly into Concrete or Filled Block	All	2-1/2"	1-3/4"
B	1/4" [6A] Ultimate	Min. 25Y Wood Stud or Wood Structure	All	1"	1-1/2"
		Thru 18Y Block into Concrete or Masonry	All	2-1/2"	1-1/4"
		Directly into Concrete or Filled Block	All	2-1/2"	1-3/4"
BA	1/4" [6A Ultimate+]	Min. 25Y Wood Stud or Wood Structure	All	1"	1-1/2"
		Thru 18Y Block into Concrete	All	2-1/2"	1-1/4"
		Directly into Concrete or Filled Block	All	2-1/2"	1-1/4"
C	#14 SMS	Min. Steel 12 GA Min.	All	3/4"	(2) Threads min. to extended beyond mated (fin) thread
		Min. Aluminum .125" thk.	All	3/4"	(2) Threads min. to extended beyond mated (fin) thread

WINDOR

ANTHONY LYNN MILLER
License
No. 86705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DRAWN BY:	JA
CHECKED BY:	MS
DATE:	12/9/23
SCALE:	NTS
SHEET:	9 OF 12
PROJECT:	#W23SLHHFPA

SERIES 725 F.P. IMPACT HORIZONTAL SLIDING WINDOW

ANCHOR TABLES

ADDED SETTING BLOCKS | M.S. | 12/9/23

PERFORMANCE VALUES OF ALUMIBUCK INSTALLATION ANCHORS

WINDOW DIMS. WIDTH	WINDOW DIMS. HEIGHT	ANCHORS AT 17" O.C. POS (+) NEG (-)	ANCHORS AT 10" O.C. POS (+) NEG (-)
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]

PERFORMANCE VALUES OF ALUMIBUCK INSTALLATION ANCHORS

WINDOW DIMS. WIDTH	WINDOW DIMS. HEIGHT	ANCHORS AT 17" O.C. POS (+) NEG (-)	ANCHORS AT 10" O.C. POS (+) NEG (-)
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]

PERFORMANCE VALUES OF ALUMIBUCK INSTALLATION ANCHORS

WINDOW DIMS. WIDTH	WINDOW DIMS. HEIGHT	ANCHORS AT 17" O.C. POS (+) NEG (-)	ANCHORS AT 10" O.C. POS (+) NEG (-)
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]

PERFORMANCE VALUES OF ALUMIBUCK INSTALLATION ANCHORS

WINDOW DIMS. WIDTH	WINDOW DIMS. HEIGHT	ANCHORS AT 17" O.C. POS (+) NEG (-)	ANCHORS AT 10" O.C. POS (+) NEG (-)
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]

PERFORMANCE VALUES OF ALUMIBUCK INSTALLATION ANCHORS

WINDOW DIMS. WIDTH	WINDOW DIMS. HEIGHT	ANCHORS AT 17" O.C. POS (+) NEG (-)	ANCHORS AT 10" O.C. POS (+) NEG (-)
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]

NOTE:
INTERPOLATION BETWEEN SIZES ALLOWED.

ADDED SETTING BLOCKS

WinDoor®

SERIES "7??" ALUM. FIXED WINDOW (LMI)

ALUM. BUCK PERFORMANCE

10 OF 12

A. MORLEMN

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

PERFORMANCE VALUES OF ALUM BUCK INSTALLATION ANCHORS

WINDOW DIMS.		ANCHORS AT [illegible] O.C.	ANCHORS AT [illegible] O.C.
WIDTH	HEIGHT	POS (+) NEG (-)	POS (+) NEG (-)
[illegible]	[illegible]	[illegible]	[illegible]

PERFORMANCE VALUES OF ALUM BUCK INSTALLATION ANCHORS

WINDOW DIMS.		ANCHORS AT [illegible] O.C.	ANCHORS AT [illegible] O.C.
WIDTH	HEIGHT	POS (+) NEG (-)	POS (+) NEG (-)
[illegible]	[illegible]	[illegible]	[illegible]

PERFORMANCE VALUES OF ALUM BUCK INSTALLATION ANCHORS

WINDOW DIMS.		ANCHORS AT [illegible] O.C.	ANCHORS AT [illegible] O.C.
WIDTH	HEIGHT	POS (+) NEG (-)	POS (+) NEG (-)
[illegible]	[illegible]	[illegible]	[illegible]

PERFORMANCE VALUES OF ALUM BUCK INSTALLATION ANCHORS

WINDOW DIMS.		ANCHORS AT [illegible] O.C.	ANCHORS AT [illegible] O.C.
WIDTH	HEIGHT	POS (+) NEG (-)	POS (+) NEG (-)
[illegible]	[illegible]	[illegible]	[illegible]

PERFORMANCE VALUES OF ALUM BUCK INSTALLATION ANCHORS

WINDOW DIMS.		ANCHORS AT [illegible] O.C.	ANCHORS AT [illegible] O.C.
WIDTH	HEIGHT	POS (+) NEG (-)	POS (+) NEG (-)
[illegible]	[illegible]	[illegible]	[illegible]

NOTE:
INTERPOLATION BETWEEN SIZES ALLOWED.

ADDED SETTING BLOCKS

WINDOOR®

SERIES "7[illegible]" ALUM. FIXED WINDOW (LMI)

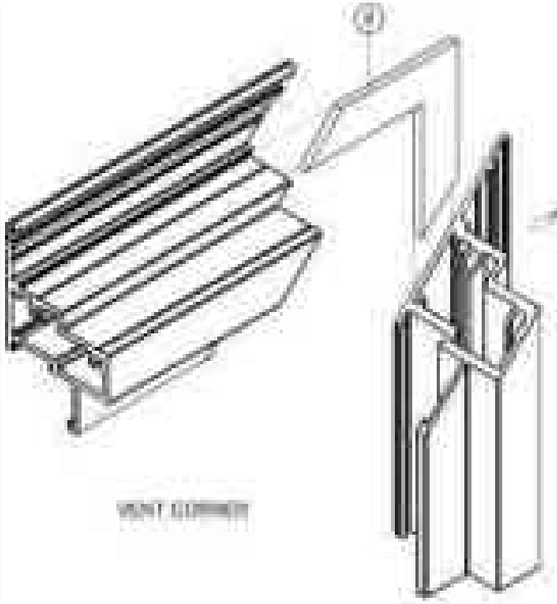
ALUM. BUCK PERFORMANCE 3

A. MORESHI

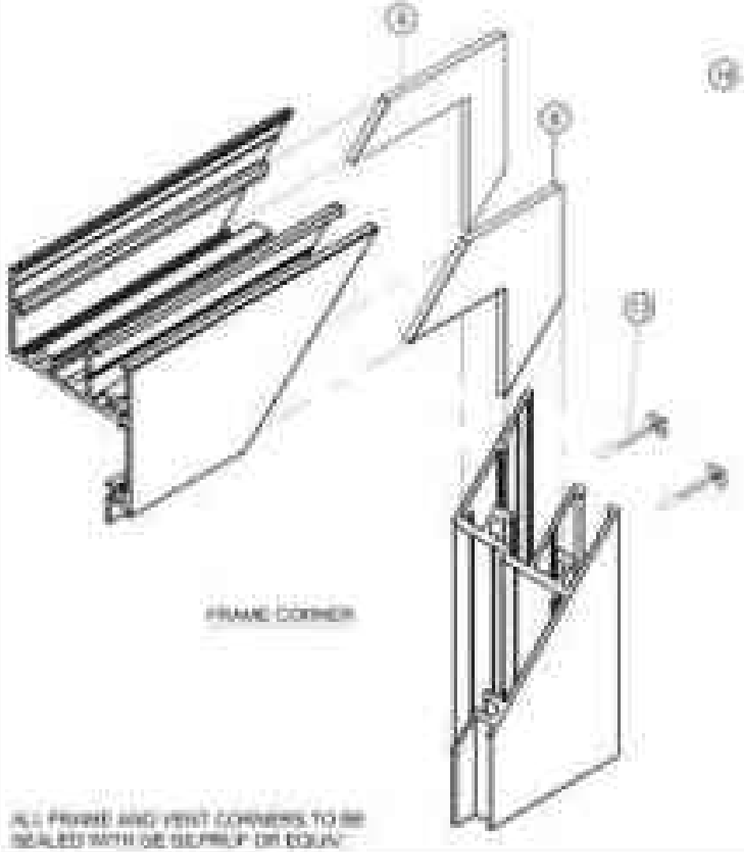
11 OF 12

PW208

ANTHONY LYNN MILLER
No. [illegible]
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.

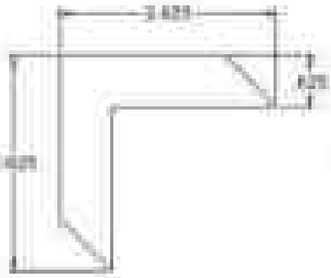


VENT CORNER

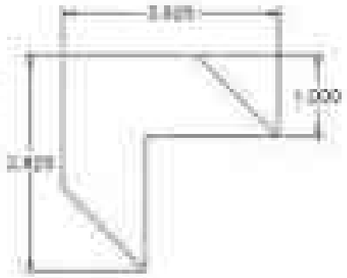


FRAME CORNER

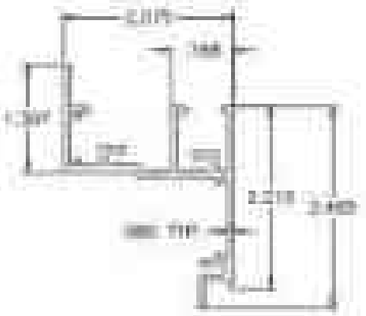
ALL FRAME AND VENT CORNERS TO BE SEALED WITH GE SILPRUF OR EQUIV.



A CORNER KEY



B CORNER KEY



C FLANGE FRAME



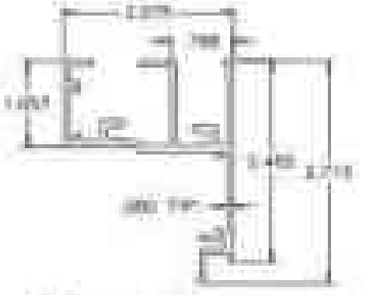
D VENT (2¼" LAM. GLASS)



H ALUMINUM BUCK



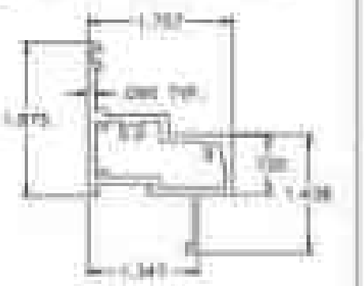
M OPTIONAL COVER



J EQUAL LEG FRAME



E VENT (INSUL. LAM. GLASS)



L VENT (5/16" LAM. GLASS)



G CG-375 EDGE GLAZING STOP



K CG-250 SQUARE GLAZING STOP

ITEM	PART #	DESCRIPTION	MATERIAL
1	CG-373	FLANGE FRAME	6063-T5
2	CG-357	EQUAL LEG FRAME	6063-T5
3	CG-378	VENT (5/16" LAM. GLASS)	6063-T5
4	CG-361	VENT (INSUL. LAM. GLASS)	6063-T5
5	CG-365	VENT (1/4" LAM. GLASS)	6063-T5
6	CG-375	EDGE GLAZING BEAD	6063-T5
7	CG-358	SQUARE GLAZING BEAD	6063-T5
8	–	.080" THICK CORNER KEY	ALUMINUM
9	–	.062 THICK CORNER KEY	6T-T5
10	MP-420	FRAME WEATHERSTRIPPING	–
11	QS50 X190	VENT WEATHERSTRIPPING	Q-LON
12	HD10-11038	MAT SCREWS #10 x 1" PH-SMS @ 10" O.C. LOWER RAIL, 18" O.C. SHIMTER RAIL	SS
13	–	FRAME AND VENT ASSEMBLY SCREWS #10 x 1-1/2" PHP	SS
14	–	ALUMINUM BUCK	6061-T6
15	–	OPTIONAL COVER	6063-T5
16	–	SETTING BLOCK (VARIABLE) 80=.6	EPDM

		ADDED SETTING BLOCKS	8/29/25
			B

WINDOOR®

SERIES 2CP ALUM FIXED WINDOW (AW)

ANCHOR LOAD CAPACITY

PW28

12 OF 12

PW28-UM-FPA

PREPARED BY A.L.T. MILLER, P.E. FOR WINDOOR, INC. 1125 PEDCO DRIVE, CONYERS, GA 30094 PHONE: 770.922.7533 FAX: 770.922.7535

ANTHONY LYNN MILLER — No. 86708 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
C.E.# 86708