

SERIES "238 DESIGNER" ALUMINUM FIXED WINDOWS - LARGE MISSILE

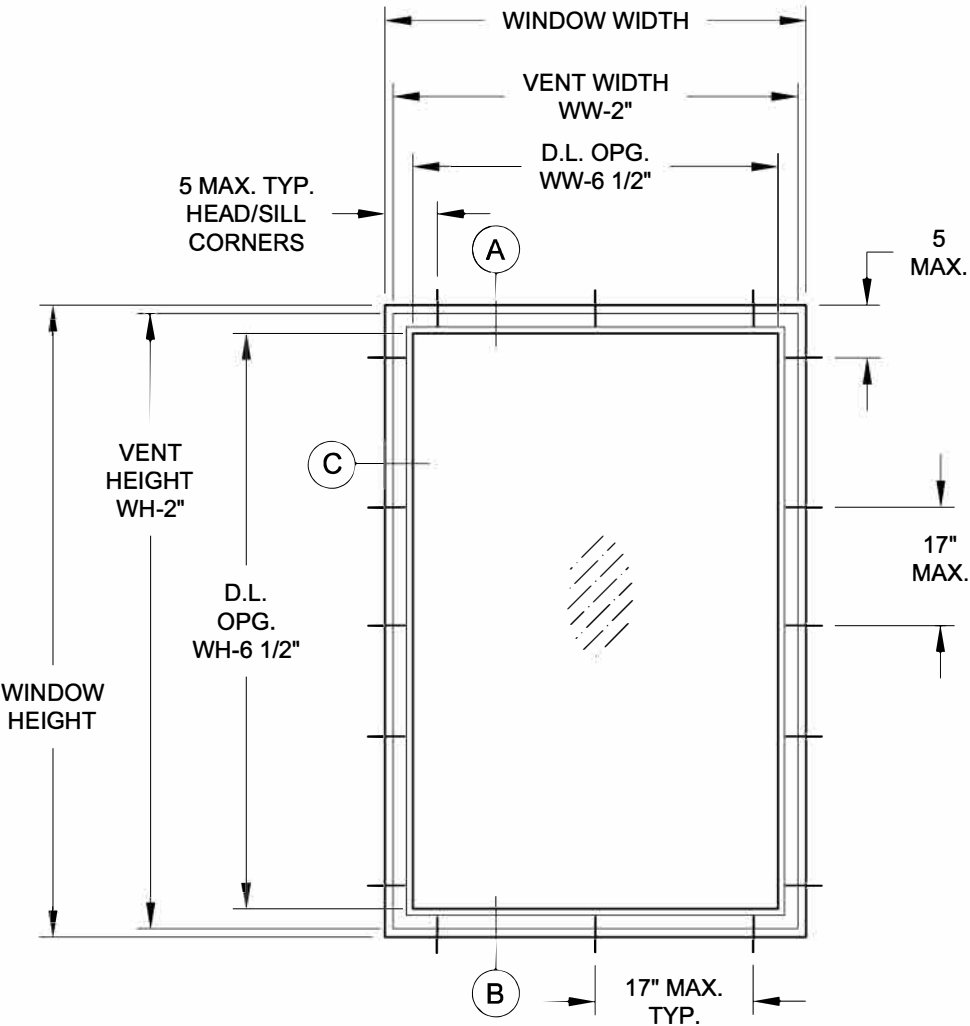
NOTES:

- 1). THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2). 1BY OR 2BY 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 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, H/H OR T/T LAMINATED GLASS MUST BE USED"

INSTRUCTIONS:

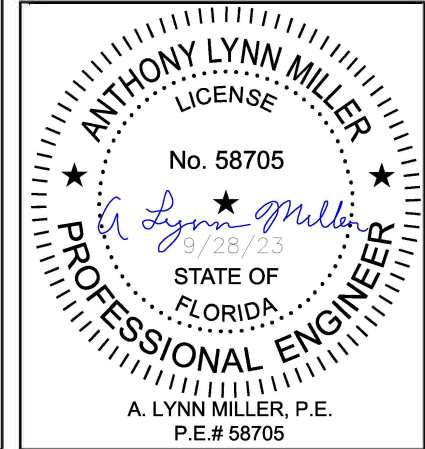
USE CHARTS AS FOLLOWS.

- 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 DESIRED GLASS SIZE/TYPE.
- STEP 3** USING CHART ON SHEETS 9 & 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.



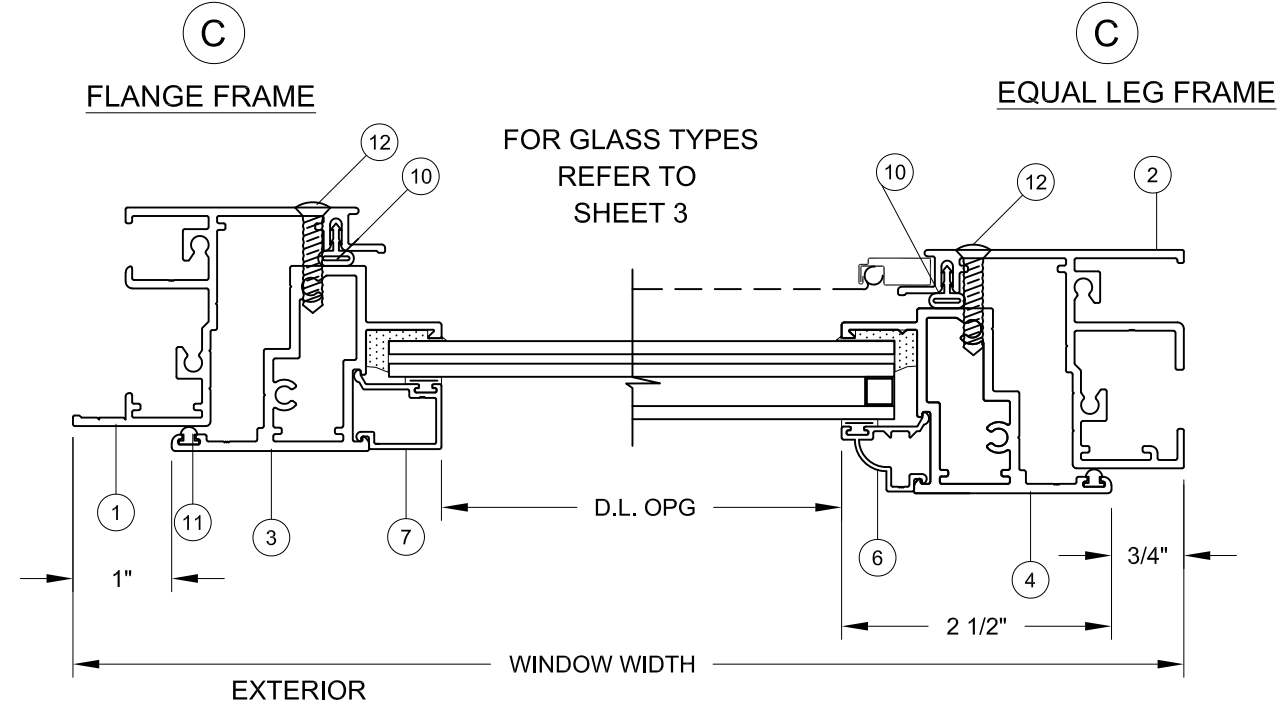
THESE WINDOWS ARE RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296 COPYRIGHT © 2023 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.		1/26/23	
WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		ALUM. FIXED WINDOW, SHAPES (LMI)		A. MORLESIN	
PW238D		1 OF 10		PW238DLMI-FPA	
ELEVATION & GENERAL NOTES		DWC		No.	
Sheet		1 OF 10		PW238D	
Series		Desc.		Title	

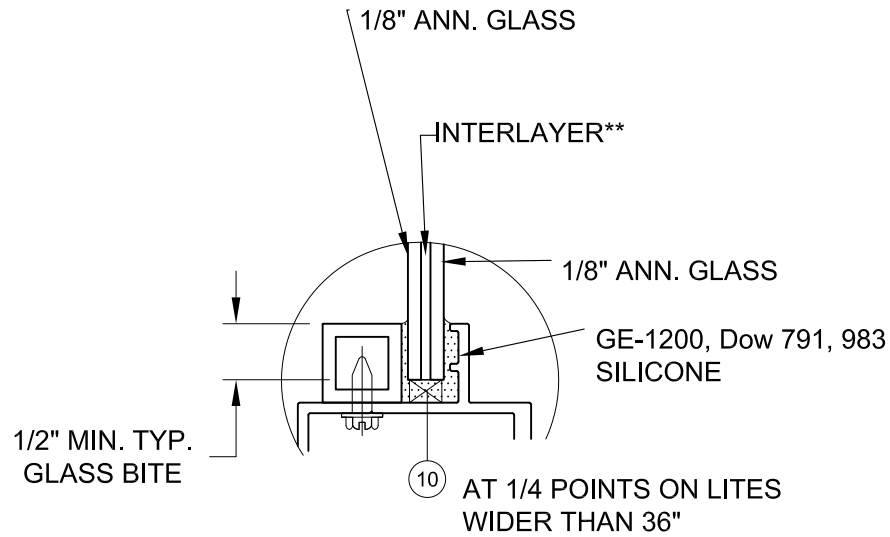


Rev.		NO CHANGES ON THIS SHEET	
Date		9/27/23	
Rev. #		A	

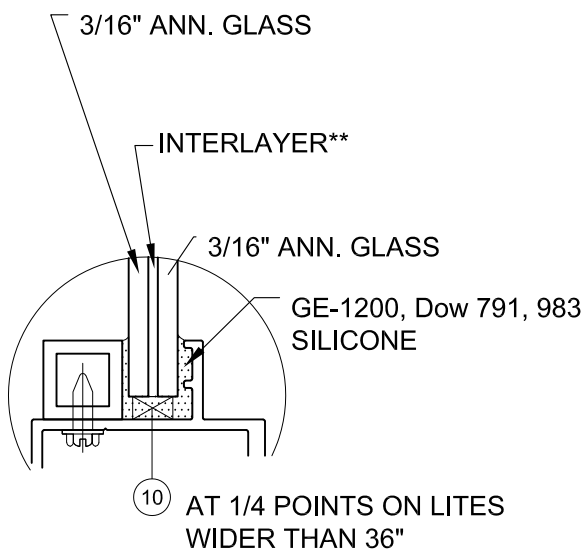
Rev.	NO CHANGES ON THIS SHEET	Date	9/27/23	Rev.#	A
------	--------------------------	------	---------	-------	---



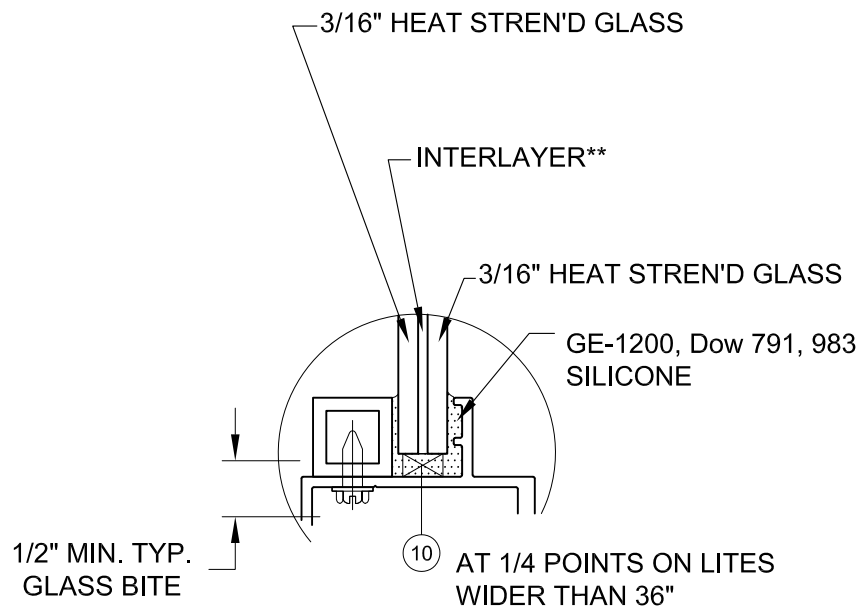
WINDOOR® INCORPORATED		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		REGISTRATION #29296 COPYRIGHT © 2023 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	
Title	ALUM. FIXED WINDOW, SHAPES (LMI)		Date 1/26/23
Desc.	SECTION DETAILS		Drawn By A. MORLESIN
Series	PW238D	Sheet 2 OF 10	DWG No. PW238DLMI-FPA



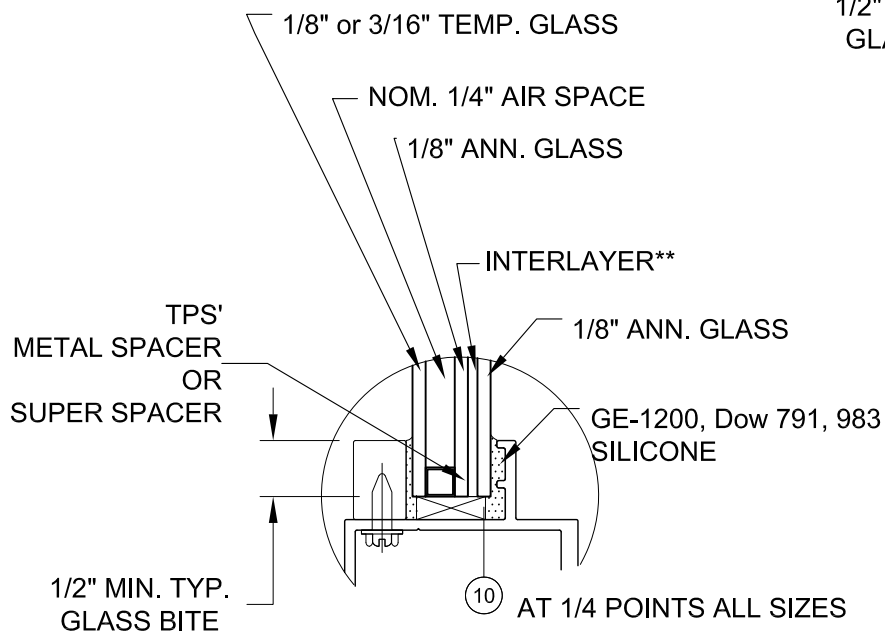
5/16" NOMINAL
GLASS TYPE '1'



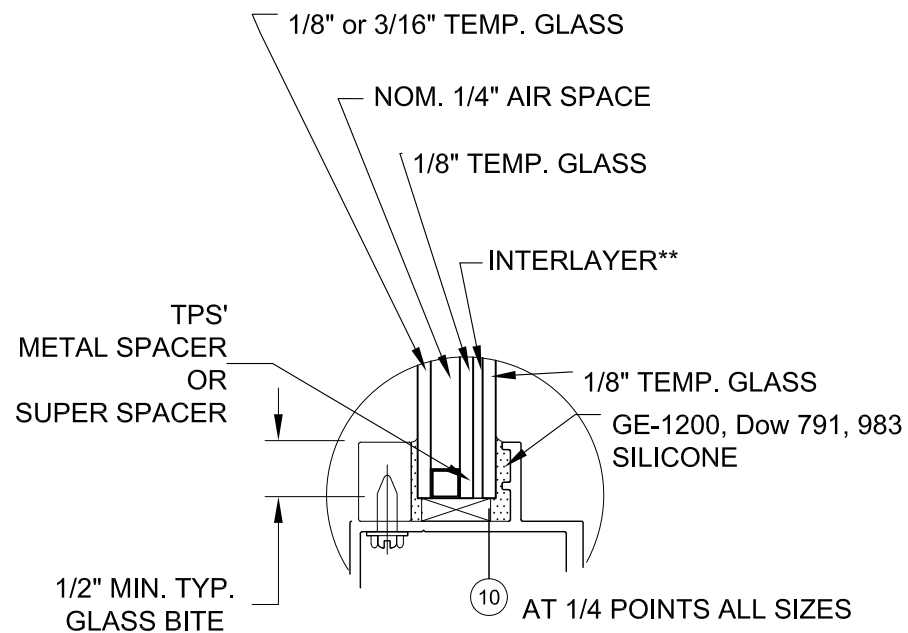
7/16" NOMINAL
GLASS TYPE '2'



7/16" NOMINAL
GLASS TYPE '3'



INSULATED
GLASS TYPE '4'



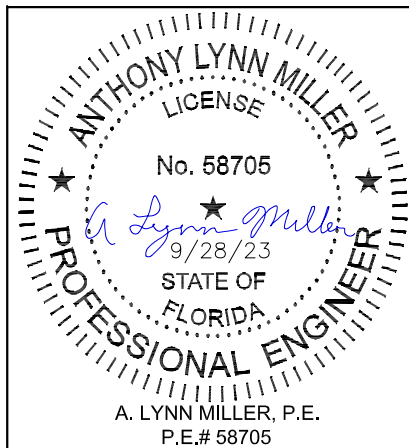
INSULATED
GLASS TYPE '5'

**** INTERLAYER OPTIONS:**

.090" Saflex Clear And Color Glass
By 'Eastman Chemical Co.'

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

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296 COPYRIGHT © 2023 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.		1/26/23	A. MORLESIN	PW238DLMI-FPA
WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		ALUM. FIXED WINDOW, SHAPES (LMI)				
WINDOOR® INCORPORATED		GLASS TYPES			PW238D	3 OF 10
WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		Series Desc.				



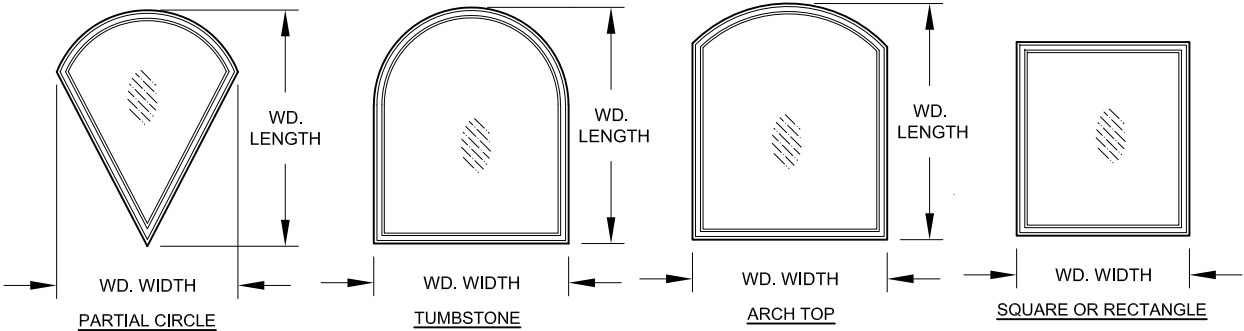
Rev.	9/27/23	Date	NO CHANGES ON THIS SHEET
A			

	Glass Type: 1	Design Load Capacity (lbs/ft ²)																					
		Window Buck Width (in)																					
		19-1/8	24	26-1/2	30	36	37	42	48	53-1/8	54	60											
Window Buck Height (in)	26	+110.0	-210.0	+110.0	-180.0	+110.0	-166.2	+110.0	-166.2	+110.0	-166.2	+110.0	-166.2	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+84.8	-84.8	+74.7	-74.7
	36	+110.0	-200.6	+110.0	-180.0	+110.0	-163.0	+110.0	-144.0	-110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+101.4	-101.4	+84.8	-84.8	+84.8	-84.8	+74.7	-74.7
	38-3/8	+110.0	-200.6	+110.0	-166.4	+110.0	-163.0	+110.0	-142.5	+110.0	-120.0	-110.0	-116.8	+102.9	-102.9	+85.0	-85.0	+81.9	-81.9	+75.1	-75.1	+66.4	-66.4
	42	+110.0	-185.7	+110.0	-166.4	+110.0	-142.5	+110.0	-142.5	+110.0	-120.0	+102.9	-102.9	+102.9	-102.9	+85.0	-85.0	+75.1	-75.1	+75.1	-75.1	+66.4	-66.4
	48	+110.0	-185.7	+110.0	-153.1	+110.0	-125.2	+110.0	-117.6	+101.4	-101.4	+92.1	-92.1	+85.0	-85.0	+75.5	-75.5	+68.4	-68.4	+68.4	-68.4	+63.6	-63.6
	50-5/8	+110.0	-185.7	+110.0	-134.8	+110.0	-125.2	+99.4	-99.4	+92.1	-92.1	+92.1	-92.1	+75.1	-75.1	+68.4	-68.4	+66.6	-66.6	+65.8	-65.8	+59.0	-59.0
	54	+110.0	-177.5	+110.0	-134.8	+99.4	-99.4	+99.4	-99.4	+84.8	-84.4	+75.1	-75.1	+75.1	-75.1	+68.4	-68.4	+65.8	-65.8	+65.8	-65.8	+59.0	-59.0
	60	+110.0	-177.5	+110.0	-119.4	+98.1	-98.1	+87.8	-87.8	+74.7	-74.7	+68.6	-68.6	+66.4	-66.4	+63.6	-63.6	+59.0	-59.0	+59.0	-59.0		
	63	+110.0	-177.5	+110.0	-112.5	+98.1	-98.1	+82.1	-82.1	+68.6	-68.6	+68.6	-68.6	+58.1	-58.1	+56.6	-56.6	+56.6	-56.6				
	66	+110.0	-120.0	+110.0	-112.5	+85.2	-85.2	+82.1	-82.1	+66.6	-66.6	+58.1	-58.1	+58.1	-58.1	+56.1	-56.1						
	72	+110.0	-120.0	+105.4	-105.4	+85.2	-85.2	+74.0	-74.0	+59.2	-59.2	+55.4	-55.4	+51.2	-51.2	+49.8	-49.8						
	74-1/4	+110.0	-120.0	+103.0	-103.0	+85.2	-85.2	+67.2	-67.2	+55.4	-55.4	+55.4	-55.4	+46.1	-46.1								
	78	+103.0	-103.0	+103.0	-103.0	+67.2	-67.2	+67.2	-67.2	+50.8	-50.8	+46.1	-46.1	+46.1	-46.1								
	84	+103.0	-103.0	+103.0	-103.0	+63.0	-63.0	+63.0	-63.0	+47.3	-47.3												
	96	+87.5	-87.5	+87.5	-87.5	+56.3	-56.3	+56.3	-56.3	+41.6	-41.6												
	108	+69.6	-69.6	+69.6	-69.6	+53.5	-53.5	+53.5	-53.5														
	120	+58.8	-58.8	+58.8	-58.8																		

	Glass Type: 2	Design Load Capacity (lbs/ft ²)																					
		Window Buck Width (in)																					
		19-1/8		24		26-1/2		30		36		37		42		48		53-1/8		54		60	
Window Buck Height (in)	26	+110.0	-210.0	+110.0	-180.0	+110.0	-166.2	+110.0	-166.2	+110.0	-166.2	+110.0	-166.2	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+101.4	-101.4	+74.7	-74.7
	36	+110.0	-200.6	+110.0	-180.0	+110.0	-163.0	+110.0	-144.0	-110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-112.6	+101.4	-101.4	+74.7	-74.7
	38-3/8	+110.0	-200.6	+110.0	-168.0	+110.0	-163.0	+110.0	-144.0	+110.0	-120.0	-110.0	-116.8	+110.0	-112.6	+110.0	-112.6	+110.0	-112.6	+102.9	-102.9	+90.0	-90.0
	42	+110.0	-185.7	+110.0	-168.0	+110.0	-147.2	+110.0	-144.0	+110.0	-120.0	+110.0	-116.8	+102.9	-102.9	+102.9	-102.9	+102.9	-102.9	+102.9	-102.9	+90.0	-90.0
	48	+110.0	-185.7	+110.0	-160.0	+110.0	-147.2	+110.0	-120.0	+110.0	-120.0	+110.0	-116.8	+102.9	-102.9	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0
	50-5/8	+110.0	-185.7	+110.0	-154.3	+110.0	-147.2	+110.0	-120.0	+110.0	-120.0	+110.0	-116.8	+102.9	-102.9	+90.0	-90.0	+85.3	-85.3	+80.0	-80.0	+80.0	-80.0
	54	+110.0	-177.5	+110.0	-154.3	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-110.2	+102.9	-102.9	+90.0	-90.0	+81.3	-81.3	+80.0	-80.0	+80.0	-80.0
	60	+110.0	-177.5	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-114.3	+110.0	-110.2	+90.0	-90.0	+90.0	-90.0	+81.3	-81.3	+80.0	-80.0		
	63	+110.0	-177.5	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-110.2	+110.0	-110.2	+90.0	-90.0	+90.0	-90.0	+81.3	-81.3				
	66	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0						
	72	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+83.9	-83.9						
	74-1/4	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+86.1	-86.1								
	78	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+86.1	-86.1	+86.1	-86.1								
	84	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0												
96	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0													
108	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0															
120	+90.0	-90.0	+90.0	-90.0																			

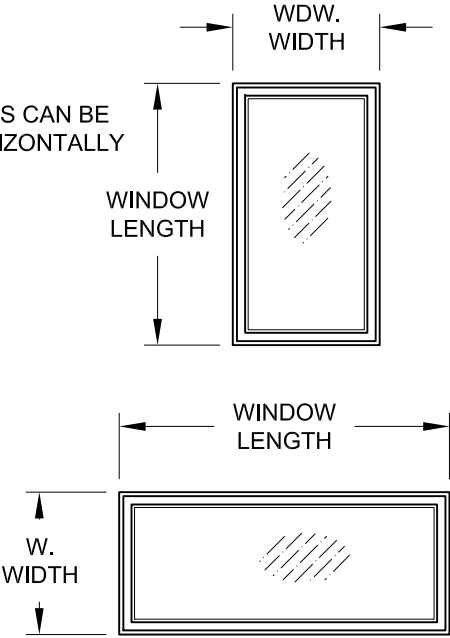
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS).

NOTE:
NO SHUTTERS REQUIRE.
REFER TO SHEETS 6 AND 7 FOR
INSTALLATION DETAILS.



NOTE:
VERIFY LOAD CAPACITY OF WINDOW BY
INSCRIBING SHAPE OF WINDOW WITHIN A
RECTANGULAR OR SQUARE SHAPE AND
USING THOSE DIMENSIONS TO CONSULT
CHARTS ON SHEET 4, 5, & 6 FOR GLASS AND
SHEET 8 FOR ANCHORS AS ON THIS
SAMPLES.

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



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

REGISTRATION #29296
COPYRIGHT © 2023 WINDOOR, INC., LIMITED
LICENSE TO MAKE COPIES FOR PERMITTING.

WindoOR®
INCORPORATED
WINDOOR INCORPORATED
104 TRIPLE DIAMOND BLVD
N VENICE, FL 34275
(833) 554-5432

ALUM. FIXED WINDOW, SHAPES (LMI)

1/26/23

By A. MORLESIN

DP VALUES

4 OF 10

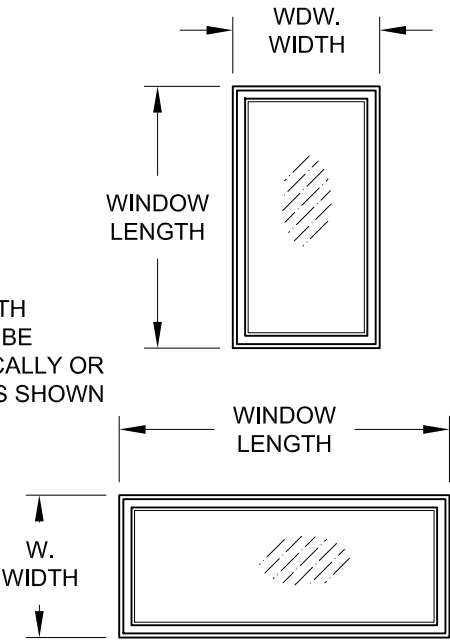
PW238D

PW238DLMI-FPA

Anthony Lynn Miller
Professional Engineer
No. 58705
9/28/23
STATE OF FLORIDA
A. LYNN MILLER, P.E.
P.E.# 58705

	Glass Type: 3	Design Load Capacity (lbs/ft ²)																							
		Window Buck Width (in)																							
		19-1/8		24		26-1/2		30		33		36		37		39		42		45		48		51	
Window Buck Height (in)	26	+110.0	-210.0	+110.0	-195.8	+110.0	-180.7	+110.0	-180.7	+110.0	-180.7	+110.0	-180.7	+110.0	-180.7	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	-110.0	-120.0
	36	+110.0	-210.0	+110.0	-195.8	+110.0	-177.3	+110.0	-156.6	+110.0	-130.5	+110.0	-130.5	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	-110.0	-120.0
	38-3/8	+110.0	-210.0	+110.0	-193.6	+110.0	-177.3	+110.0	-156.6	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	-110.0	-120.0
	42	+110.0	-210.0	+110.0	-193.6	+110.0	-169.7	+110.0	-156.6	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+96.9	-111.9	+96.9	-111.9	+96.9	-111.9	+96.9	-111.9	-96.9	-111.9
	48	+110.0	-210.0	+110.0	-184.4	+110.0	-169.7	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+96.9	-111.9	+96.9	-111.9	+96.9	-111.9	+90.0	-97.9	-90.0	-90.0
	50-5/8	+110.0	-210.0	+110.0	-177.8	+110.0	-169.7	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+96.9	-111.9	+96.9	-111.9	+90.0	-90.0	+90.0	-90.0	-85.3	-85.3
	54	+110.0	-204.6	+110.0	-177.8	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+96.9	-111.9	+96.9	-111.9	+90.0	-90.0	+90.0	-90.0	-81.3	-81.3
	60	+110.0	-204.6	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	-81.3	-81.3
	63	+110.0	-204.6	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	-81.3	-81.3
	66	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	-70.0	-70.0
	72	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	-70.0	-70.0
	74-1/4	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+70.0	-70.0	+70.0	-70.0	-70.0	-70.0
	78	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+70.0	-70.0	+70.0	-70.0	-70.0	-70.0
	84	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	-70.0	-70.0
	96	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	-70.0	-70.0
	108	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+50.0	-50.0	-50.0	-50.0
	120	+90.0	-90.0	+90.0	-90.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	-50.0	-50.0
	132	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0		
	144	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0				
	156	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0								

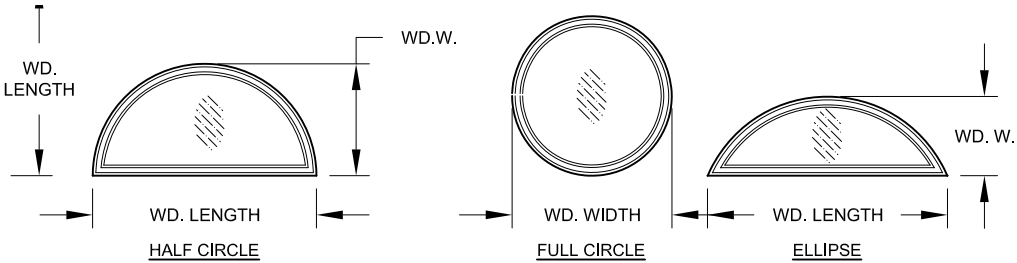
NOTE:
WIDTH AND LENGTH
DIMENSIONS CAN BE
ORIENTED VERTICALLY OR
HORIZONTALLY AS SHOWN
ABOVE.



	Glass Type: 3	Design Load Capacity (lbs/ft ²)																									
		Window Buck Width (in)																									
		53-1/8		54		57		60		63		66		69		72		75		78		81		84		87	
Window Buck Height (in)	26	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+50.0	-50.0	+50.0	-50.0
	36	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+50.0	-50.0	+50.0	-50.0
	38-3/8	+110.0	-120.0	+96.9	-111.9	+90.0	-90.0	+90.0	-90.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+50.0	-50.0	+50.0	-50.0
	42	+96.9	-111.9	+96.9	-111.9	+90.0	-90.0	+90.0	-90.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+50.0	-50.0	+50.0	-50.0
	48	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+50.0	-50.0	+50.0	-50.0
	50-5/8	+85.3	-85.3	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+50.0	-50.0	+50.0	-50.0
	54	+81.3	-81.3	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+50.0	-50.0	+50.0	-50.0
	60	+81.3	-81.3	+80.0	-80.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+50.0	-50.0	+50.0	-50.0
	63	+81.3	-81.3	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+68.6	-68.6	+65.5	-65.5	+65.5	-65.5	+65.5	-65.5	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
	66	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+68.6	-68.6	+65.5	-65.5	+65.5	-65.5	+65.5	-65.5	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
	72	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+68.6	-68.6	+65.5	-65.5	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
	74-1/4	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0		
	78	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0		
	84	+70.0	-70.0	+70.0	-70.0	+70.0	-70.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0								
	96	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0														
108	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0																			
120	+50.0	-50.0	+50.0	-50.0																							

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS).

NOTE:
NO SHUTTERS REQUIRE.
REFER TO SHEETS 6 AND 7 FOR
INSTALLATION DETAILS.



NOTE:
VERIFY LOAD CAPACITY OF WINDOW BY
INSCRIBING SHAPE OF WINDOW WITHIN A
RECTANGULAR OR SQUARE SHAPE AND
USING THOSE DIMENSIONS TO CONSULT
CHARTS ON SHEET 4, 5, & 6 FOR GLASS AND
SHEET 8 FOR ANCHORS AS ON THIS
SAMPLES.

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

REGISTRATION #29296
COPYRIGHT © 2023 WINDOOR, INC., LIMITED
LICENSE TO MAKE COPIES FOR PERMITTING.

WINDOOR[®]
INCORPORATED
WINDOOR INCORPORATED
104 TRIPLE DIAMOND BLVD
N VENICE, FL 34275
(833) 554-5432

ALUM. FIXED WINDOW, SHAPES (LMI)

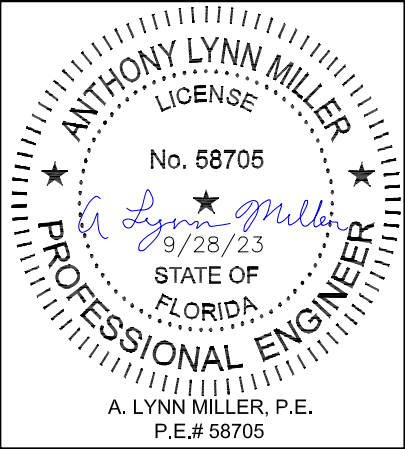
1/26/23

A. MORLESIN

5 OF 10

PW238D

PW238DLMI-FPA

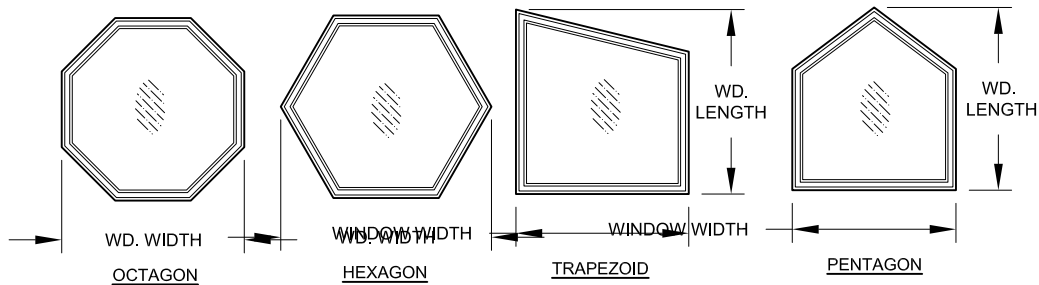


	Glass Type: 4	Design Load Capacity (lbs/ft ²)																						
		Window Buck Width (in)																						
		19-1/8		24		26-1/2		30		36		37		42		48		53-1/8		54		60		
Window Buck Height (in)	26	+110.0	-210.0	+110.0	-180.0	+110.0	-166.2	+110.0	-166.2	+110.0	-166.2	+110.0	-166.2	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+90.1	-90.1	+79.3	-79.3	
	36	+110.0	-200.6	+110.0	-180.0	+110.0	-163.0	+110.0	-144.0	-110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+107.7	-107.7	+90.1	-90.1	+90.1	-90.1	+79.3	-79.3	
	38-3/8	+110.0	-200.6	+110.0	-168.0	+110.0	-163.0	+110.0	-144.0	+110.0	-120.0	-110.0	-116.8	+102.9	-102.9	+90.3	-90.3	+87.0	-87.0	+79.8	-79.8	+70.5	-70.5	
	42	+110.0	-185.7	+110.0	-168.0	+110.0	-144.0	+110.0	-144.0	+110.0	-120.0	+102.9	-102.9	+102.9	-102.9	+90.3	-90.3	+79.8	-79.8	+79.8	-79.8	+70.5	-70.5	
	48	+110.0	-185.7	+110.0	-160.0	+110.0	-133.0	+110.0	-120.0	+107.7	-107.7	+97.9	-97.9	+90.3	-90.3	+80.2	-80.2	+72.7	-72.7	+72.7	-72.7	+67.6	-67.6	
	50-5/8	+110.0	-185.7	+110.0	-143.3	+110.0	-133.0	+105.0	-105.6	+97.9	-97.9	+97.9	-97.9	+79.8	-79.8	+72.7	-72.7	+70.8	-70.8	+69.9	-69.9	+62.7	-62.7	
	54	+110.0	-177.5	+110.0	-143.3	+105.6	-105.6	+105.0	-105.6	+90.1	-90.1	+79.8	-79.8	+79.8	-79.8	+72.7	-72.7	+69.9	-69.9	+69.9	-69.9	+62.7	-62.7	
	60	+110.0	-177.5	+110.0	-120.0	+104.3	-104.3	+93.3	-93.3	+79.3	-79.3	+72.9	-72.9	+70.5	-70.5	+67.6	-67.6	+62.7	-62.7	+62.7	-62.7			
	63	+110.0	-177.5	+110.0	-119.5	+104.3	-104.3	+87.2	-87.2	+72.9	-72.9	+72.9	-72.9	+61.7	-61.7	+60.1	-60.1	+60.1	-60.1					
	66	+110.0	-120.0	+110.0	-119.5	+90.5	-90.5	+87.2	-87.2	+70.7	-70.7	+61.7	-61.7	+61.7	-61.7	+59.6	-59.6							
	72	+110.0	-120.0	+110.0	-111.9	+90.5	-90.5	+78.6	-78.6	+62.9	-62.9	+58.8	-58.8	+54.4	-54.4	+52.9	-52.9							
	74-1/4	+109.4	-109.4	+109.4	-109.4	+90.5	-90.5	+71.4	-71.4	+58.8	-58.8	+58.8	-58.8	+48.9	-48.9									
	78	+109.4	-109.4	+109.4	-109.4	+71.4	-71.4	+71.4	-71.4	+54.0	-54.0	+48.9	-48.9	+48.9	-48.9									
	84	+109.4	-109.4	+109.4	-109.4	+67.0	-67.0	+67.0	-67.0	+50.2	-50.2													
96	+92.9	-92.9	+92.9	-92.9	+59.8	-59.8	+59.8	-59.8	+44.2	-44.2														
108	+74.0	-74.0	+74.0	-74.0	+56.8	-56.8	+56.8	-56.8																
120	+62.5	+62.5	+62.5	-62.5																				

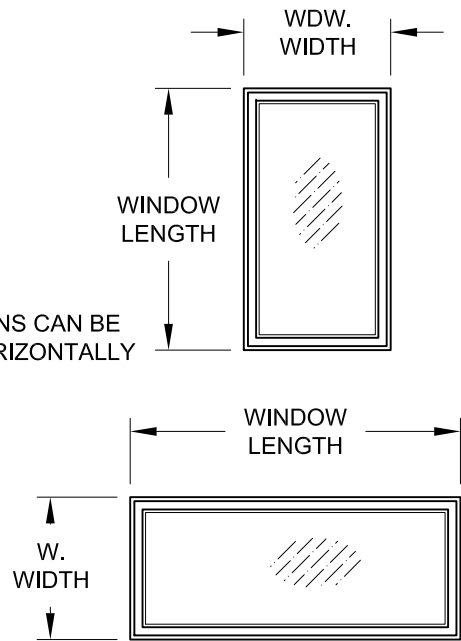
	Glass Type: 5	Design Load Capacity (lbs/ft ²)																					
		Window Buck Width (in)																					
		19-1/8		24		26-1/2		30		36		37		42		48		53-1/8		54		60	
Window Buck Height (in)	26	+110.0	-210.0	+110.0	-195.8	+110.0	-180.7	+110.0	-180.7	+110.0	-180.7	+110.0	-180.7	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0
	36	+110.0	-210.0	+110.0	-195.8	+110.0	-177.3	+110.0	-156.6	-110.0	-130.5	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0
	38-3/8	+110.0	-210.0	+110.0	-193.6	+110.0	-177.3	+110.0	-156.6	+110.0	-120.0	-110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+96.9	-111.9	+90.0	-90.0
	42	+110.0	-210.0	+110.0	-193.6	+110.0	-169.7	+110.0	-156.6	+110.0	-120.0	+110.0	-120.0	+96.9	-111.9	+96.9	-111.9	+96.9	-111.9	+96.9	-111.9	+90.0	-90.0
	48	+110.0	-210.0	+110.0	-184.4	+110.0	-169.7	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+96.9	-111.9	+90.0	-97.9	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0
	50-5/8	+110.0	-210.0	+110.0	-177.8	+110.0	-169.7	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+96.9	-111.9	+90.0	-90.0	+85.3	-85.3	+80.0	-80.0	+80.0	-80.0
	54	+110.0	-204.6	+110.0	-177.8	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+96.9	-111.9	+90.0	-90.0	+81.3	-81.3	+80.0	-80.0	+80.0	-80.0
	60	+110.0	-204.6	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+81.3	-81.3	+80.0	-80.0		
	63	+110.0	-204.6	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+81.3	-81.3				
	66	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0						
	72	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0						
	74-1/4	+110.0	-120.0	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0								
	78	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0								
	84	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0												
96	+110.0	-120.0	+110.0	-120.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0													
108	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0															
120	+90.0	+90.0	+90.0	-90.0																			

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS).

NOTE:
NO SHUTTERS REQUIRE.
REFER TO SHEETS 6 AND 7 FOR
INSTALLATION DETAILS.



NOTE:
VERIFY LOAD CAPACITY OF WINDOW BY
INSCRIBING SHAPE OF WINDOW WITHIN A
RECTANGULAR OR SQUARE SHAPE AND
USING THOSE DIMENSIONS TO CONSULT
CHARTS ON SHEET 4, 5, & 6 FOR GLASS AND
SHEET 8 FOR ANCHORS AS ON THIS
SAMPLES.



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

REGISTRATION #29296
COPYRIGHT © 2023 WINDOOR, INC., LIMITED
LICENSE TO MAKE COPIES FOR PERMITTING.

WinDoor®
INCORPORATED
WINDOOR INCORPORATED
104 TRIPLE DIAMOND BLVD
N VENICE, FL 34275
(833) 554-5432

ALUM. FIXED WINDOW, SHAPES (LMI)

1/26/23

By A. MORLESIN

DP VALUES

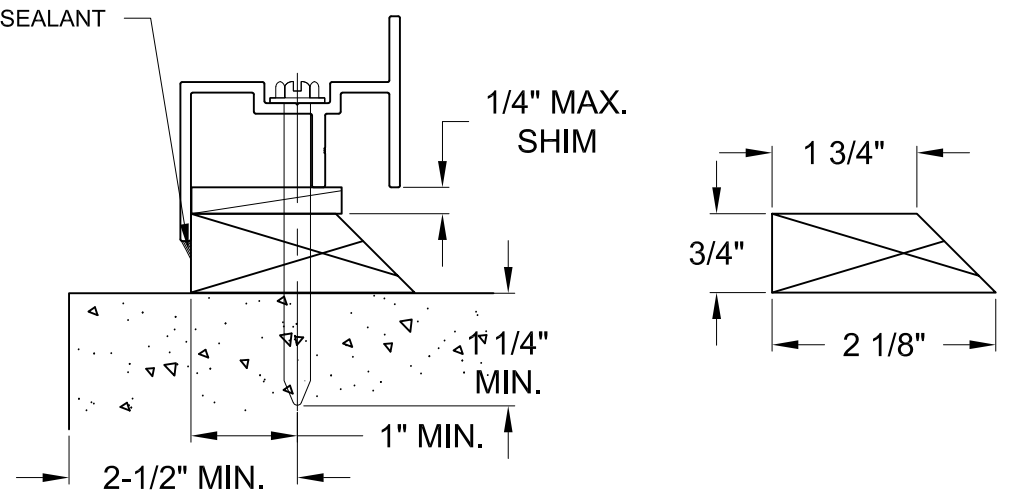
6 OF 10

PW238D

PW238DLMI-FPA

ANTHONY LYNN MILLER
LICENSE
No. 58705
9/28/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

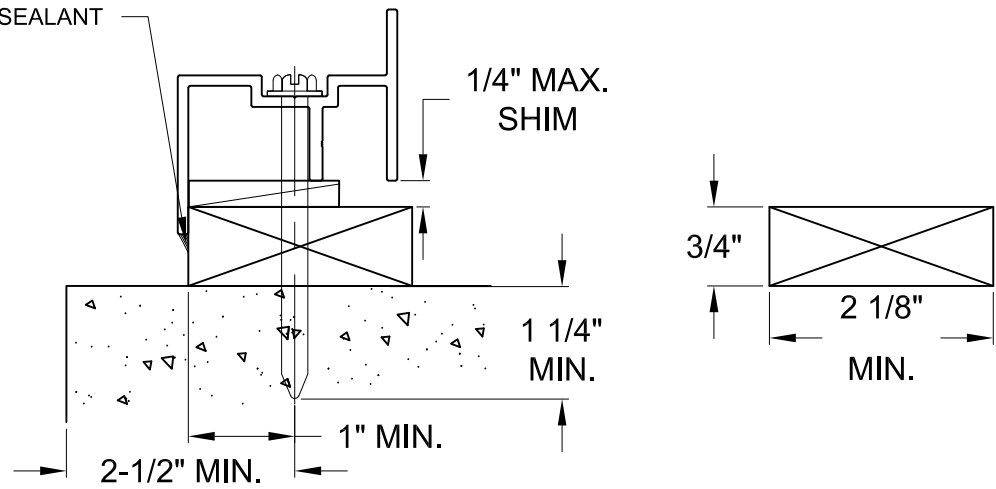
INSTALLATION CONDITIONS (APPLIES TO ALL FOUR SIDES)
FOR ANCHOR PERFORMANCE VALUES SEE SHEET 6



INSTALLATION TYPE '1'

WOOD BUCK TYPE '1'
MATERIAL: PRESSURE TREATED

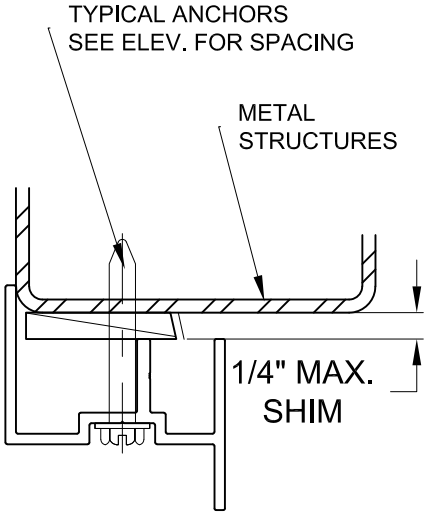
TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



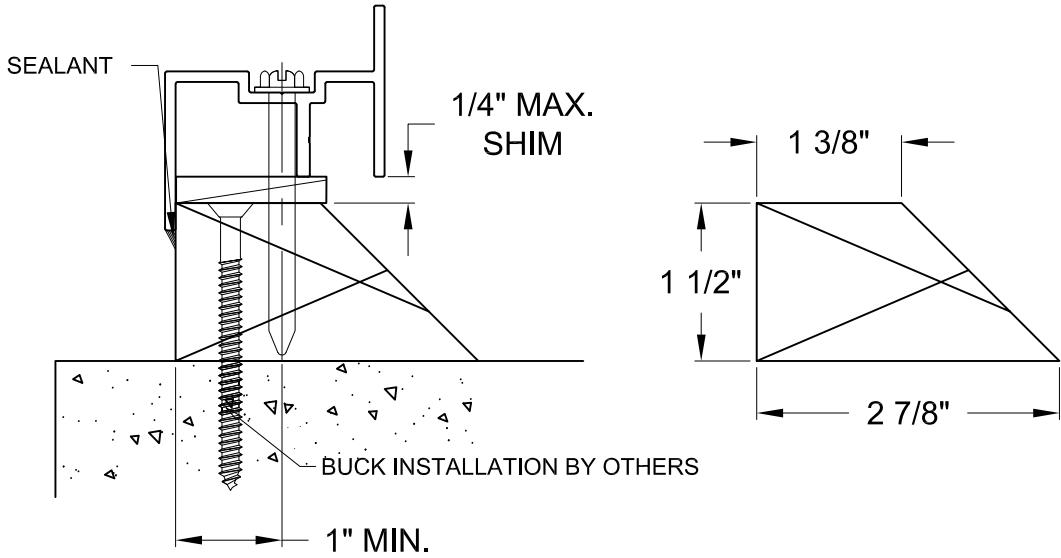
INSTALLATION TYPE '2'

WOOD BUCK TYPE '2'
MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



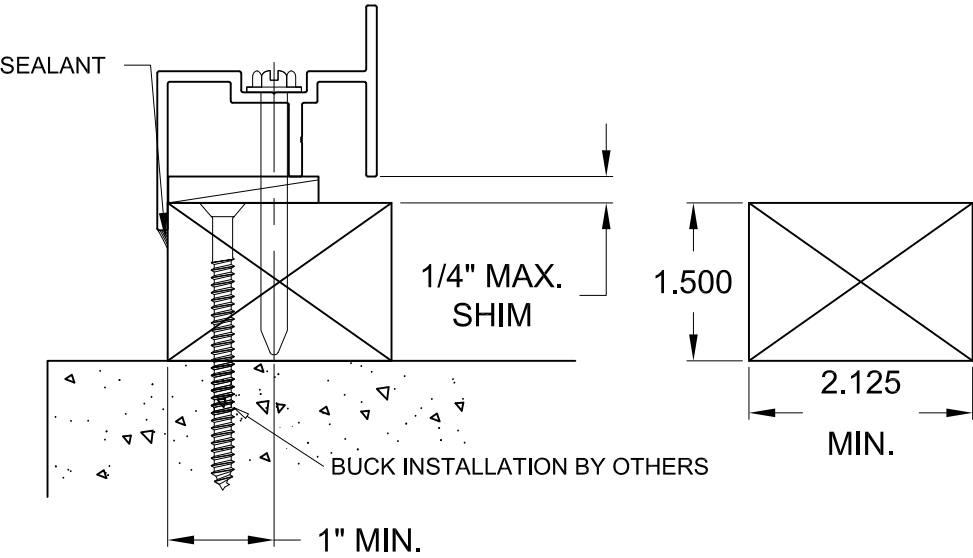
ATTACHMENT TO
METAL STRUCTURES



INSTALLATION TYPE '3'

WOOD BUCK TYPE '3'
MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

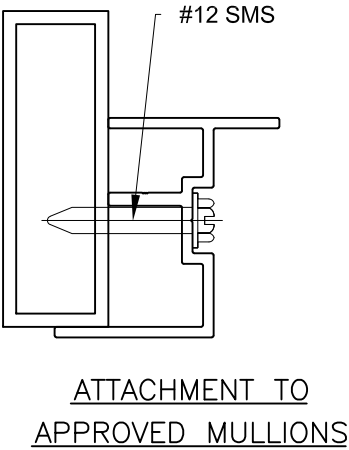


INSTALLATION TYPE '4'

WOOD BUCK TYPE '4'
MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

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



ATTACHMENT TO
APPROVED MULLIONS

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296 COPYRIGHT © 2023 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.		1/26/23	
WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		ALUM. FIXED WINDOW, SHAPES (LMI)		A. MORLESIN	
ANCHOR INSTALLATION		PW238D		PW238DLMI-FPA	
7 OF 10		Sheet		Date	
Series		Desc.		Title	

WINDOOR®
INCORPORATED

ANTHONY LYNN MILLER
LICENSE
No. 58705
9/28/23
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

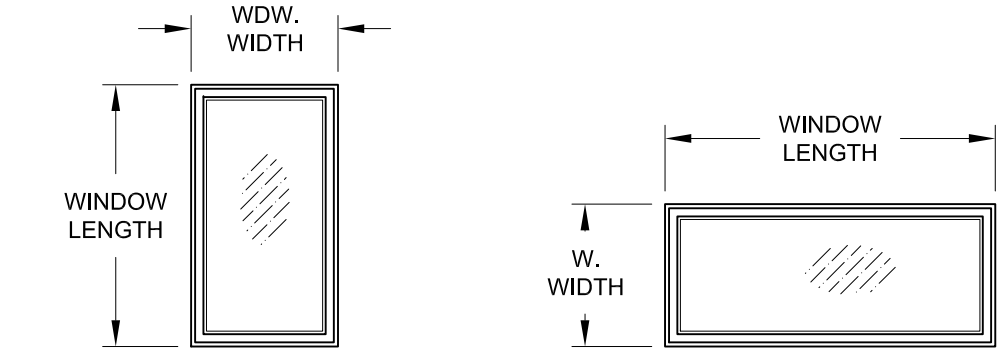
PERFORMANCE VALUES OF INSTALLATION ANCHORS REFER TO SHEET 7 FOR DETAILS		
WINDOW DIMS.		POS. (+) NEG. (-)
WIDTH	HEIGHT	
24"	36"	210.0
30"		210.0
36"		210.0
42"		210.0
48"		210.0
54"		210.0
60"		190.5
63"		177.8
66"		208.3
69"		196.1
72"		185.2
75"		175.4
78"		166.7
81"		190.5
84"		181.8
87"		173.9
90"		166.7
24"	42"	210.0
30"		210.0
36"		210.0
42"		210.0
48"		210.0
54"		207.8
60"		175.8
63"		163.3
66"		190.5
69"		178.6
72"		168.1
75"		158.7
78"		150.4
81"		171.4
84"		163.3
87"		155.8
90"		149.1
24"	48"	210.0
30"		210.0
36"		210.0
42"		210.0
48"		210.0
54"		200.0
60"		166.7
63"		153.8
66"		178.6
69"		166.7
72"		156.3
75"		147.1
78"		138.9
81"		157.9
84"		150.0
87"		142.9
90"		136.4

PERFORMANCE VALUES OF INSTALLATION ANCHORS REFER TO SHEET 7 FOR DETAILS		
WINDOW DIMS.		POS. (+) NEG. (-)
WIDTH	HEIGHT	
24"	54"	210.0
30"		210.0
36"		210.0
42"		207.8
48"		200.0
54"		197.5
60"		161.6
63"		148.1
66"		170.9
69"		158.7
72"		148.1
75"		138.9
78"		130.7
81"		148.1
84"		140.4
87"		133.3
90"		127.0
24"	60"	210.0
30"		210.0
36"		190.5
42"		175.8
48"		166.7
54"		161.6
60"		160.0
63"		145.5
66"		160.0
69"		153.8
72"		142.9
75"		133.3
78"		125.0
81"		141.2
84"		133.3
87"		126.3
90"		120.0
24"	66"	210.0
30"		210.0
36"		208.3
42"		190.5
48"		178.6
54"		170.9
60"		160.0
63"		145.1
66"		165.3
69"		151.5
72"		139.9
75"		129.9
78"		121.2
81"		136.4
84"		128.3
87"		121.2
90"		114.8

PERFORMANCE VALUES OF INSTALLATION ANCHORS REFER TO SHEET 7 FOR DETAILS		
WINDOW DIMS.		POS. (+) NEG. (-)
WIDTH	HEIGHT	
24"	72"	210.0
30"		210.0
36"		185.2
42"		168.1
48"		156.3
54"		148.1
60"		142.9
63"		141.1
66"		139.9
69"		139.1
72"		138.9
75"		128.2
78"		119.0
81"		133.3
84"		125.0
87"		117.6
90"		111.1
24"	78"	210.0
30"		190.5
36"		166.7
42"		150.4
48"		138.9
54"		130.7
60"		125.0
63"		122.9
66"		121.2
69"		119.9
72"		119.0
75"		118.5
78"		118.3
81"		118.3
84"		118.3
87"		115.4
24"	84"	210.0
30"		208.7
36"		181.8
42"		163.3
48"		150.0
54"		140.4
60"		133.3
63"		130.6
66"		128.3
69"		126.5
72"		125.0
75"		123.9
78"		118.3
81"		122.6
24"	96"	210.0
30"		177.8
36"		153.8
42"		137.1
48"		125.0
54"		115.9
60"		109.1
63"		106.3
66"		103.9
69"		101.8
72"		100.0

PERFORMANCE VALUES OF INSTALLATION ANCHORS REFER TO SHEET 7 FOR DETAILS		
WINDOW DIMS.		POS. (+) NEG. (-)
WIDTH	HEIGHT	
24"	108"	210.0
30"		180.6
36"		155.6
42"		137.9
48"		125.0
54"		115.2
60"		107.7
63"		104.6
24"	120"	210.0
30"		182.9
36"		156.9
42"		138.5
48"		125.0
54"		114.7
24"	132"	210.0
30"		184.6
36"		157.9
42"		139.0
48"		125.0
24"	144"	204.5
30"		167.4
36"		142.9
42"		125.4
48"		112.5
24"	156"	208.3
30"		170.2
36"		144.9
42"		127.0

PERFORMANCE VALUES OF INSTALLATION ANCHORS REFER TO SHEET 6 FOR DETAILS		
WINDOW DIMS.		POS. (+) NEG. (-)
WIDTH	HEIGHT	
19-1/8"	26"	210.0
26-1/2"		210.0
37"		210.0
53-1/8"		210.0
19-1/8"	38-3/8"	210.0
26-1/2"		210.0
37"		210.0
53-1/8"		210.0
19-1/8"	50-5/8"	210.0
26-1/2"		210.0
37"		210.0
53-1/8"		204.5
19-1/8"	63"	210.0
26-1/2"		210.0
37"		174.9
53-1/8"		148.8
19-1/8"	74-1/4"	210.0
26-1/2"		210.0
37"		174.5
53-1/8"		142.1



NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS).

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

Anchor Type	Description	Substrate	Frame Members	Min. Edge Distance	Min. Embedment or Metal Thickness
A	1/4" Ultracon	Into 2BY Wood Buck or Wood Structure	All	1"	1-1/2"
		Thru 1BY Buck into Concrete or Masonry	All	2-1/2"	1-1/4"
		Directly into Concrete or Masonry	All	2-1/2"	1-1/4"
A+	1/4" Ultracon+	Into 2BY Wood Buck or Wood Structure	All	1"	1-1/2"
		Thru 1BY Buck into Concrete	All	2-1/2"	1-1/4"
		Directly into Concrete or Masonry	All	2-1/2"	1-1/4"
B	#14 SMS	Into Steel 12 GA Min.	All	3/4"	(3) Threads min. to extend beyond metal thickness
		Into Aluminum 1/8" thk.	All	3/4"	(3) Threads min. to extend beyond metal thickness
C	#12 SMS	Into Steel 12 GA Min.	All	3/4"	(3) Threads min. to extend beyond metal thickness
		Into Aluminum 1/8" thk.	All	3/4"	(3) Threads min. to extend beyond metal thickness

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f_c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f_m = 2000 PSI MIN.

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

REGISTRATION #29296
COPYRIGHT © 2023 WINDOOR, INC., LIMITED
LICENSE TO MAKE COPIES FOR PERMITTING.

Windo[®]oor
INCORPORATED
WINDOOR INCORPORATED
104 TRIPLE DIAMOND BLVD
N VENICE, FL 34275
(833) 554-5432

ALUM. FIXED WINDOW, SHAPES (LMI)

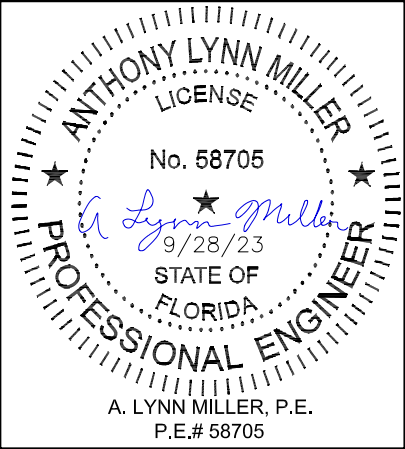
By **A. MORLESIN**
Date **1/26/23**

ANCHORS INFORMATION

DWG No. **8 OF 10**

Sheet **PW238D**

Series **PW238DLMI-FPA**



PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS			
WINDOW DIMS.		ANCHORS AT 17" O.C.	ANCHORS AT 10" O.C.
WIDTH	HEIGHT	POS. (+) NEG. (-)	POS. (+) NEG. (-)
24"	36"	207.8	210.0
30"		189.9	210.0
36"		184.7	210.0
42"		138.5	184.7
48"		147.7	184.7
54"		123.1	184.7
60"		105.5	158.3
63"		98.5	172.4
66"		115.4	161.6
69"		108.6	152.1
72"		102.6	143.6
75"		97.2	155.5
78"		92.3	147.7
81"		105.5	140.7
84"		100.7	151.1
87"		96.3	144.5
90"		92.3	138.5
24"	42"	166.2	210.0
30"		147.7	197.0
36"		138.5	184.7
42"		135.7	180.9
48"		135.7	175.9
54"		115.1	172.7
60"		97.4	146.1
63"		90.4	158.3
66"		105.5	147.7
69"		98.9	138.5
72"		93.1	130.4
75"		87.9	140.7
78"		83.3	133.3
81"		95.0	126.6
84"		90.4	135.7
87"		86.3	129.5
90"		82.6	123.9
24"	48"	184.7	210.0
30"		161.2	201.5
36"		147.7	184.7
42"		135.7	175.9
48"		138.5	173.1
54"		110.8	166.2
60"		92.3	138.5
63"		85.2	149.2
66"		98.9	138.5
69"		92.3	129.3
72"		86.6	121.2
75"		81.5	130.4
78"		76.9	123.1
81"		87.5	116.6
84"		83.1	124.7
87"		79.1	118.7
90"		75.5	113.3

PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS			
WINDOW DIMS.		ANCHORS AT 17" O.C.	ANCHORS AT 10" O.C.
WIDTH	HEIGHT	POS. (+) NEG. (-)	POS. (+) NEG. (-)
24"	54"	158.3	210.0
30"		136.4	204.6
36"		123.1	184.7
42"		115.1	172.7
48"		110.8	166.2
54"		109.4	164.1
60"		89.5	134.3
63"		82.1	143.6
66"		94.7	132.6
69"		87.9	123.1
72"		82.1	114.9
75"		76.9	123.1
78"		72.4	115.9
81"		82.1	109.4
84"		77.8	116.6
87"		73.9	110.8
90"		70.3	105.5
24"	60"	138.5	207.8
30"		118.2	177.3
36"		105.5	158.3
42"		97.4	146.1
48"		92.3	138.5
54"		89.5	134.3
60"		88.6	133.0
63"		80.6	133.0
66"		88.6	129.3
69"		85.2	119.3
72"		79.1	110.8
75"		73.9	118.2
78"		69.3	110.8
81"		78.2	104.3
84"		73.9	110.8
87"		70.0	105.0
90"		66.5	99.7
24"	66"	153.9	210.0
30"		130.4	182.5
36"		115.4	161.6
42"		105.5	147.7
48"		98.9	138.5
54"		94.7	132.6
60"		88.6	129.3
63"		80.4	128.5
66"		91.6	128.2
69"		83.9	117.5
72"		77.5	108.5
75"		71.9	115.1
78"		67.2	107.4
81"		75.5	100.7
84"		71.1	106.7
87"		67.2	100.7
90"		63.6	95.4

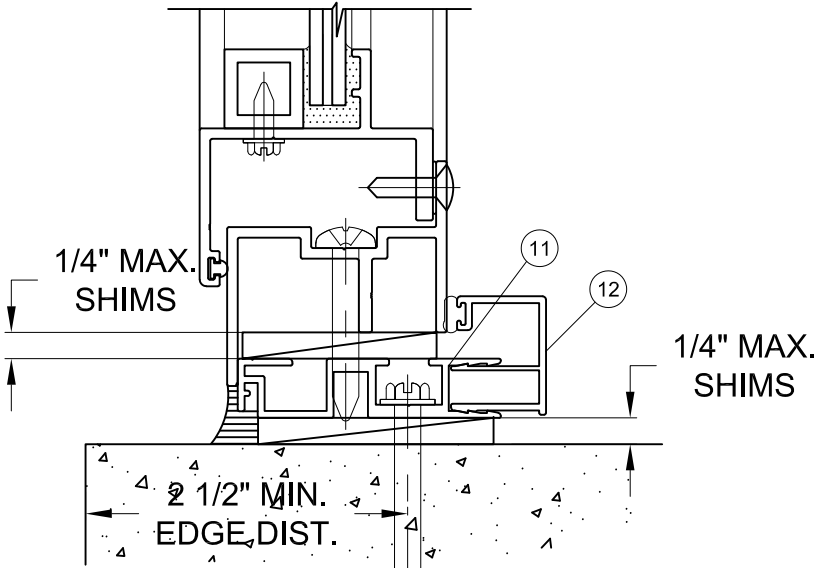
PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS			
WINDOW DIMS.		ANCHORS AT 17" O.C.	ANCHORS AT 10" O.C.
WIDTH	HEIGHT	POS. (+) NEG. (-)	POS. (+) NEG. (-)
24"	72"	138.5	193.9
30"		116.6	163.3
36"		102.6	143.6
42"		93.1	130.4
48"		86.6	121.2
54"		82.1	114.9
60"		79.1	110.8
63"		78.2	109.4
66"		77.5	108.5
69"		77.1	107.9
72"		76.9	107.7
75"		71.0	107.7
78"		66.0	105.5
81"		73.9	98.5
84"		69.3	103.9
87"		65.2	97.8
90"		61.6	92.3
24"	78"	125.9	201.5
30"		105.5	168.8
36"		92.3	147.7
42"		83.3	133.3
48"		76.9	123.1
54"		72.4	115.9
60"		69.3	110.8
63"		68.1	108.9
66"		67.2	107.4
69"		66.4	106.3
72"		66.0	105.5
75"		65.7	105.1
78"		65.6	104.9
81"		65.6	97.4
84"		65.6	102.3
87"		63.9	95.9
24"	84"	138.5	207.8
30"		115.6	173.4
36"		100.7	151.1
42"		90.4	135.7
48"		83.1	124.7
54"		77.8	116.6
60"		73.9	110.8
63"		72.4	108.5
66"		71.1	106.7
69"		70.1	105.1
72"		69.3	103.9
75"		68.6	102.9
78"		65.6	102.3
81"		67.9	97.3
24"	96"	118.7	197.9
30"		98.5	164.1
36"		85.2	142.1
42"		76.0	126.6
48"		69.3	115.4
54"		64.2	107.1
60"		60.4	100.7
63"		58.9	98.2
66"		57.6	95.9
69"		56.4	94.0
72"		55.4	92.3

PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS			
WINDOW DIMS.		ANCHORS AT 17" O.C.	ANCHORS AT 10" O.C.
WIDTH	HEIGHT	POS. (+) NEG. (-)	POS. (+) NEG. (-)
24"	108"	121.2	190.4
30"		100.1	157.3
36"		86.2	135.4
42"		76.4	120.1
48"		69.3	108.8
54"		63.8	100.3
60"	120"	59.7	93.8
63"		57.9	91.0
24"		123.1	184.7
30"		101.3	152.0
36"		86.9	130.4
42"		76.7	115.1
48"	132"	69.3	103.9
54"		63.5	95.3
24"		124.7	180.1
30"		102.3	147.7
36"		87.5	126.4
42"		77.0	111.2
48"	144"	69.3	100.0
24"		113.3	188.9
30"		92.8	154.6
36"		79.1	131.9
42"		69.5	115.8
48"		62.3	103.9
24"	156"	115.4	184.7
30"		94.3	150.9
36"		80.3	128.5
42"		70.3	112.6

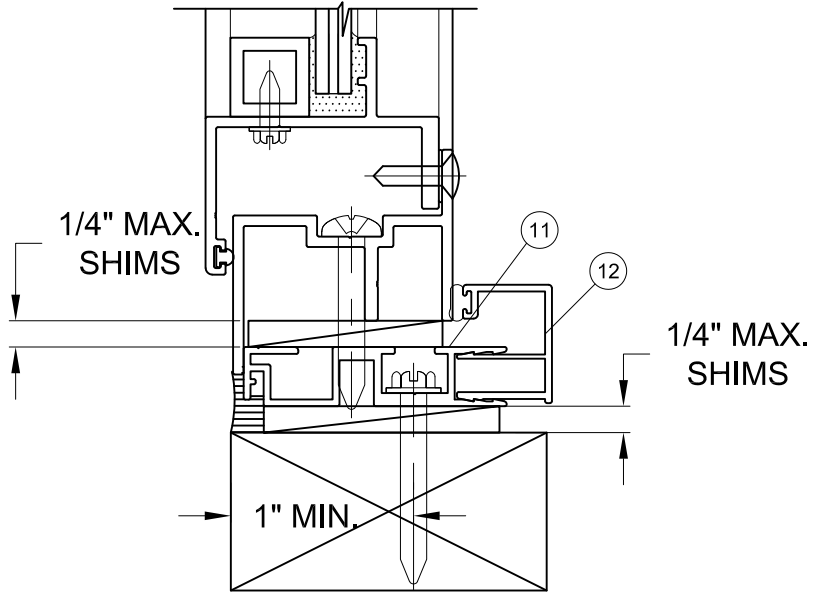
PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS			
WINDOW DIMS.		ANCHORS AT 17" O.C.	ANCHORS AT 10" O.C.
WIDTH	HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)
19-1/8"	26"	210.0	210.0
26-1/2"		210.0	210.0
37"		191.8	210.0
53-1/8"	38-3/8"	152.9	210.0
19-1/8"		210.0	210.0
26-1/2"		179.7	210.0
37"	50-5/8"	162.7	210.0
53-1/8"		122.5	183.8
19-1/8"		203.2	210.0
26-1/2"	63"	161.1	201.4
37"		134.2	167.8
53-1/8"		113.3	155.6
19-1/8"	74-1/4"	156.1	210.0
26-1/2"		121.0	210.0
37"		96.9	169.6
53-1/8"		82.4	144.2
19-1/8"		161.2	210.0
26-1/2"		123.4	197.4
37"		96.7	154.7
53-1/8"		78.7	126.0

ALUMINUM BUCK FRAMING DETAILS

REFER TO SHEETS 3 THRU 6 FOR WINDOW CAPACITIES
USE LOWER APPLICABLE VALUES.



INSTALLATION TYPE '5'



INSTALLATION TYPE '6'
2BY WOOD BUCK OR WOOD STRUCTURES

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING ALUMINUM BUCK SYSTEM

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

REGISTRATION #29296
COPYRIGHT © 2023 WINDOOR, INC., LIMITED
LICENSE TO MAKE COPIES FOR PERMITTING.

WinDoor®
INCORPORATED

WINDOOR INCORPORATED
104 TRIPLE DIAMOND BLVD
N VENICE, FL 34275
(833) 554-5432

ALUM. FIXED WINDOW, SHAPES (LMI)

ANCHOR INFORMATION

1/26/23

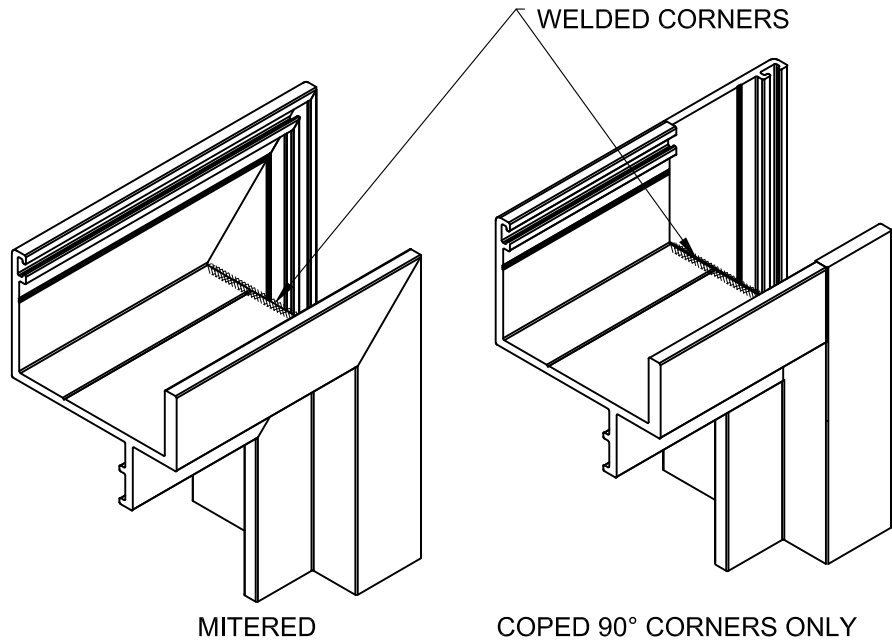
By A. MORLESIN

9 OF 10

PW238D

PW238DLMI-FPA

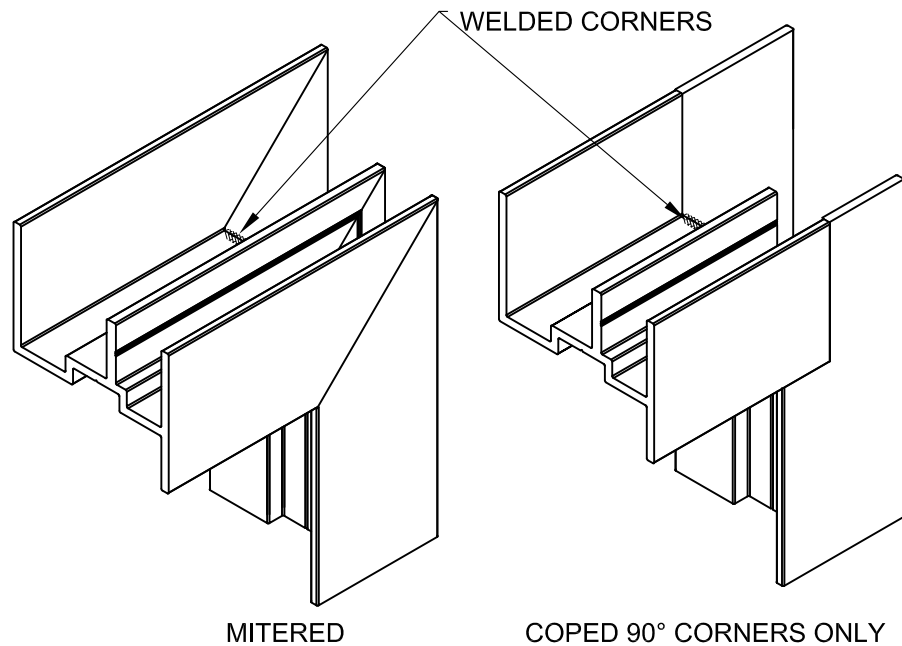
ANTHONY LYNN MILLER
LICENSE
No. 58705
9/28/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



MITERED COPED 90° CORNERS ONLY

VENT CORNER

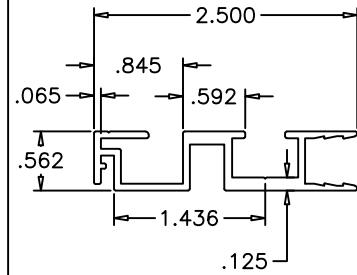
ALL FRAME AND VENT CORNERS TO BE
SEALED WITH GE SILPRUF OR EQUIV.



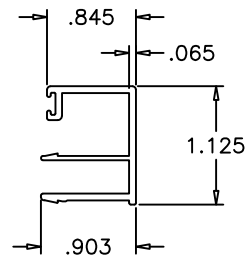
MITERED COPED 90° CORNERS ONLY

FRAME CORNER

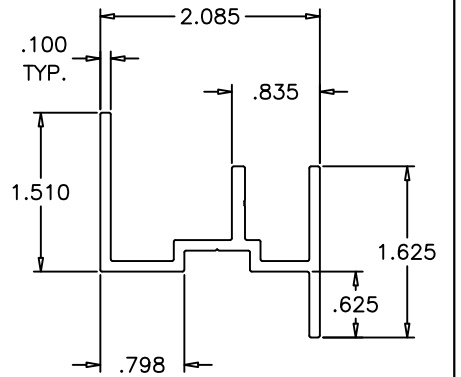
ITEM	PART #	DESCRIPTION	MATERIAL
1	CGI-386	FRAME	6063-T6
2	CGI-387	VENT	6063-T6
3	CGI-418	GLAZING BEAD IG	6063-T6
3A	CGI-408	GLAZING BEAD LAMI	6063-T5
4	-	GLAZING BEAD SCREWS #12 X 5/8: SMS. @ 6" FROM ENDS & 20" O.C. MAX.	SS
5	-	GLAZING COMPOUND GE-1200 , DOW 791. DOW 983	SILICONE
6	-	SINGLE FACED GLAZING TAPE 1/2" X .090"	FOAM
7	Q200 X190	VENT WEATHERSTRIPPING	Q-LON
8	-	VENT SCREWS #10 X 1" SMS @ 17" O.C. TYP.	SS
9	-	FRAME AND VENT ASSEMBLY SCREWS #10 X 1-1/4" SMS	SS
10	-	SETTING BLOCK DUROMETER 80+-5	EPDM
11	-	ALUMINUM BLOCK	6063-T6
12	-	OPTIONAL COVER	6063-T6



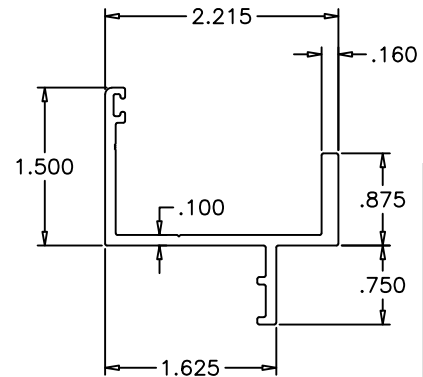
⑪ ALUMINUM BUCK



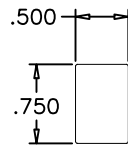
⑫ OPTIONAL COVER



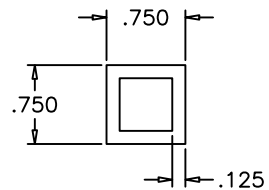
① FRAME



② VENT

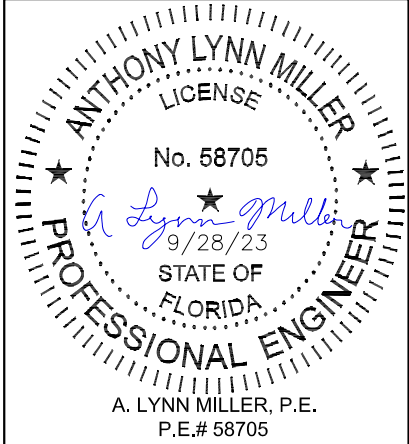


③ GLAZING BEAD IG



③A GLAZING BEAD

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296 COPYRIGHT © 2023 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.		1/26/23	
WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		ALUM. FIXED WINDOW, SHAPES (LMI)		A. MORLESIN	
BOM & EXTRUSIONS		PW238D		PW238DLMI-FPA	
10 OF 10		Sheet		No.	
PW238D		Desc.		Title	



Rev.	9/27/23	Date	NO CHANGES ON THIS SHEET
Rev.	A		