DP RATING	NOT RATED FOR IMPACT RESISTANCE
SEE TABLES A-E	

PW820V FIXED WINDOW, NON-IMPACT RESISTANT, FLANGE, EQUAL-LEG, & FIN FRAMES

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

2) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

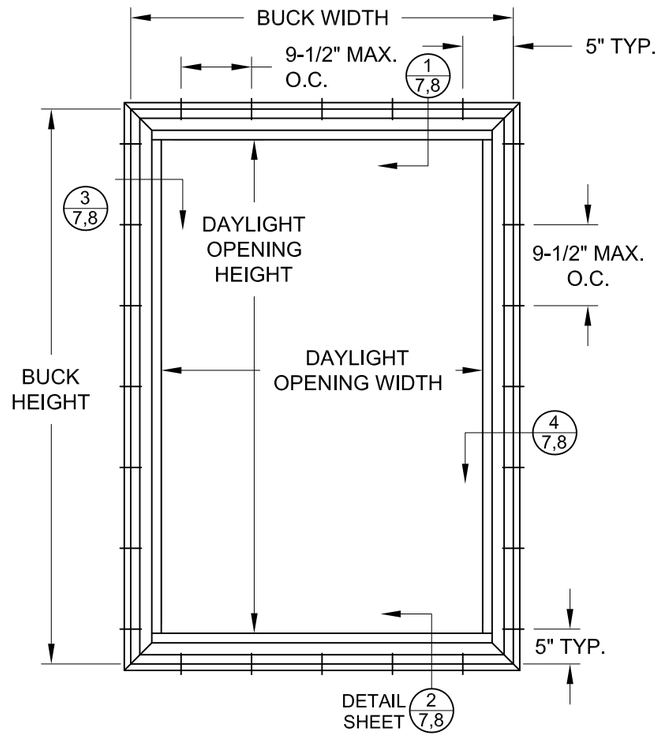
3) MASONRY ANCHORS MAY BE USED INTO WOOD. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER.

4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH.

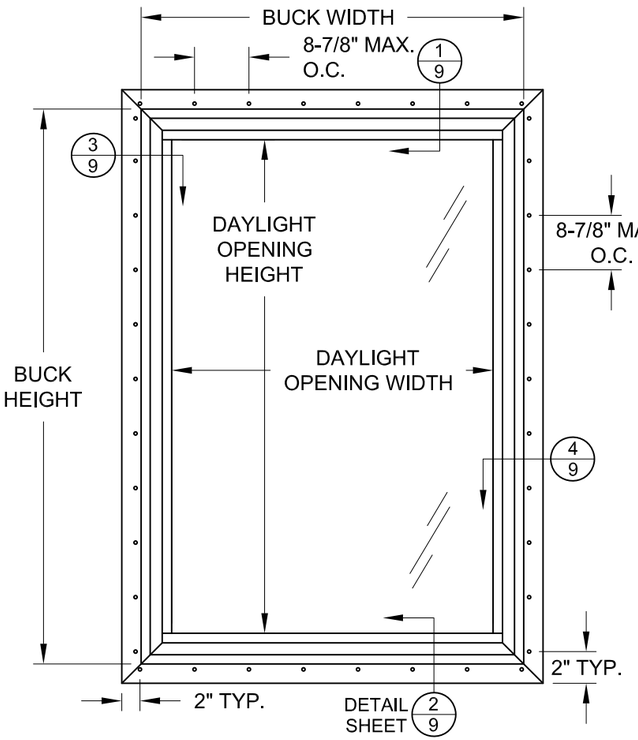
5) MAX. 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.

6) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

7) FRAME FLANGES OR INTEGRAL FINS MAY TRIMMED IN-FIELD TO CREATE AN EQUAL-LEG FRAME.

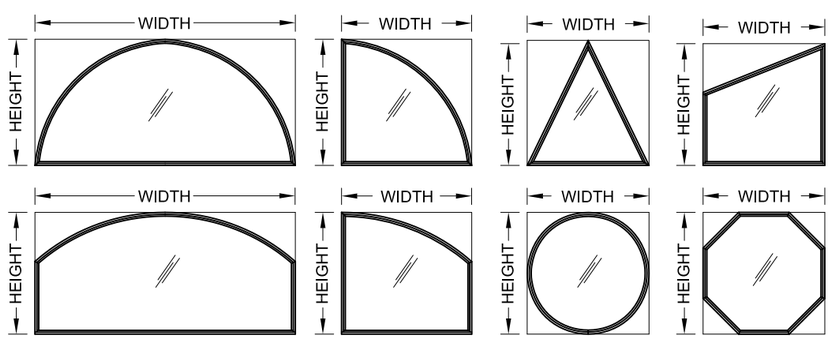


TYP. ANCHOR LOCATIONS
(FLANGED FRAME, EQUAL-LEG SIM.)
SEE TABLES A-E FOR SIZES



TYP. ANCHOR LOCATIONS
(INTEGRAL FIN FRAME)
SEE TABLES A-E FOR SIZES

SHAPES AS SHOWN BELOW, OR SIMILAR, MAY BE USED BY INSCRIBING THE SHAPE IN A BLOCK AND OBTAINING DESIGN PRESSURES FOR THAT BLOCK SIZE FROM THE TABLES ON SHEETS 2-6.



ALL TEMPERED AND/OR 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, HEAT STRENGTHENED OR TEMPERED LAMINATED GLASS MUST BE USED.

DAYLIGHT OPENING WIDTH = BUCK WIDTH - 4.25
DAYLIGHT OPENING HEIGHT = BUCK HEIGHT - 4.25

Rev.#	Date	Rev.
A	08/17/23	MINOR EDITORIAL UPDATES

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

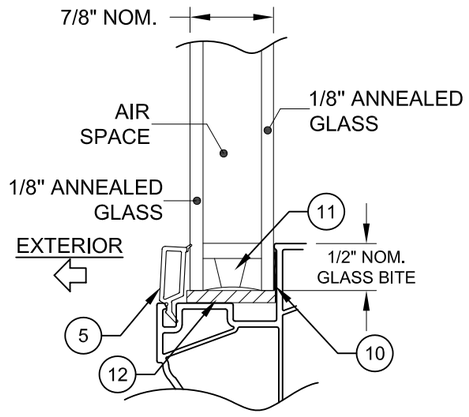
Impact Resistant Windows & Doors
CGI WINDOWS AND DOORS
3780 W. 104TH STREET
HIALEAH, FL 33018

Series	Desc. / Title	Date	Drawn By	DWG No.	Sheet
PW820V	VINYL FIXED WINDOW (NI) ELEVATION & GENERAL NOTES	04/17/23	LOGAN YODER	PW820V-FPA-NI	1 OF 10

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
08/18/23
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE A:

Window Design Pressure (+/- psf)																			
Glass Type 1: 7/8" IG (1/8"A - AIRSPACE - 1/8"A)																			
Window Dimensions		Long Side (in.)																	
		48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84
Short Side (in.)	18	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.3	98.4	97.7	97.2	96.6	96.2
	20	96.9	94.0	91.6	89.6	87.5	85.8	84.5	83.1	81.8	80.7	79.6	78.7	77.9	77.1	76.5	76.0	75.5	75.0	74.6
	22	87.8	83.8	80.2	77.0	74.8	72.9	71.2	69.8	68.4	67.2	66.0	65.0	64.1	63.2	62.4	61.7	61.0	60.4	59.8
	24	84.5	79.2	74.9	72.0	69.1	66.6	64.1	61.8	59.7	57.8	56.4	55.3	54.1	53.2	52.2	51.5	50.8	50.1	49.4
	26	83.7	78.6	74.0	70.7	67.4	64.1	60.7	57.5	55.2	53.4	51.6	50.1	48.5	47.2	46.2	45.3	44.4	43.7	43.1
	28	83.5	78.4	74.0	70.8	67.5	63.9	60.4	56.7	54.3	52.0	49.9	47.6	45.9	44.6	43.3	42.0	40.8	39.8	38.6
	30	82.3	78.2	74.1	70.8	67.7	64.5	61.0	57.3	54.6	52.3	49.9	47.3	45.6	44.1	42.4	40.7	39.2	37.7	
	32	80.6	76.4	73.3	70.4	67.3	64.2	61.4	58.1	55.2	52.8	50.5	48.1	46.0	44.3	42.7				
	34	77.8	74.4	71.5	68.8	66.3	63.6	60.6	57.7	55.4	53.3	51.0	48.6	46.6						
	36	74.3	71.8	69.5	66.8	64.1	61.8	59.5	56.8	54.7	52.7	51.1								
	38	71.6	68.9	66.5	64.2	61.9	59.4	57.1	55.3	53.6										
	40	68.6	66.2	63.7	61.2	59.0	56.8	55.0												
	42	65.6	63.2	60.8	58.3	56.0	54.3													
	44	62.6	60.1	57.6	55.6															
	46	59.9	57.2	55.0																
	48	57.2	54.9																	



GLASS TYPE 1

NOTES: 1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.

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(941) 480-1600

REGISTRATION #29296

Impact Resistant Windows & Doors

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

Date	Drawn By	DWG No.	Sheet
04/17/23	LOGAN YODER	PW820V-FPA-NI	2 OF 10

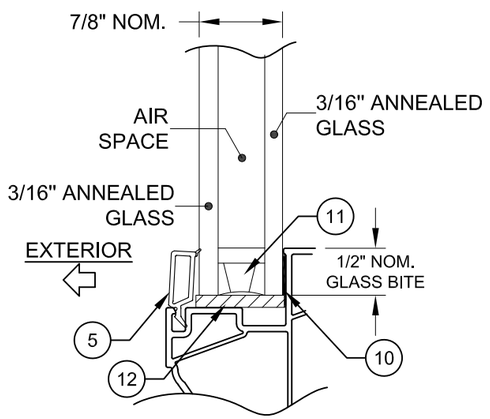
Title	Desc.	Series
VINYL FIXED WINDOW (NI)	DP TABLES & GLASS TYPES	PW820V

ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
08/18/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

TABLE B:

Window Design Pressure (+/- psf)																									
Glass Type 2: 7/8" IG (3/16"A - AIRSPACE - 3/16"A)																									
Window Dimensions		Long Side (in.)																							
		72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120
Short Side (in.)	42	70.5	68.1	65.7	63.3	60.8	58.3	56.0	54.4	52.7	51.0	49.4	47.8	46.4	45.2	44.0	43.0	42.0	41.0	39.9	38.7	37.9	37.3	36.7	36.3	35.7
	44	69.8	67.8	65.6	63.3	60.8	58.3	56.0	54.4	52.8	51.1	49.4	47.6	46.2	45.1	43.9	42.8	41.4	40.2	39.1	38.0	37.2	36.5	35.8		
	46	69.3	67.1	65.1	63.1	60.8	58.3	56.1	54.4	52.8	51.3	49.5	47.9	46.4	45.2	43.9	42.8	41.6	40.3	39.0	37.7	37.0				
	48	68.6	66.4	64.3	62.3	60.3	58.4	56.1	54.4	52.8	51.3	49.7	48.1	46.5	45.3	44.2	42.9	41.7	40.5	39.2						
	50	67.5	65.7	63.5	61.4	59.4	57.5	55.9	54.4	52.8	51.2	49.7	48.1	46.7	45.5	44.4	43.2									
	52	65.9	64.2	62.6	60.5	58.5	56.5	55.1	53.9	52.6	51.2	49.5	48.0	46.6	45.5											
	54	64.3	62.5	60.9	59.3	57.6	55.7	54.3	53.0	51.8	50.6	49.4	47.9	46.5												
	56	62.7	60.9	59.1	57.5	56.0	54.8	53.6	52.1	50.9	49.6	48.5														
	58	61.0	59.1	57.3	55.8	54.7	53.6	52.4	51.3	49.9																
	60	59.0	57.4	55.8	54.5	53.3	52.2	51.1	50.0																	
	62	57.0	55.6	54.5	53.3	52.0	50.7																			
	64	55.4	54.2	53.1	51.8	50.7																				
	66	54.0	52.7	51.6	50.4																					
	68	52.7	51.4	50.2																						
	70	51.4	50.0																							
	72	50.1																								



GLASS TYPE 2

NOTES: 1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.

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REGISTRATION #29296

Impact Resistant Windows & Doors

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

Date	Drawn By	DWG No.	Sheet
04/17/23	LOGAN YODER	PW820V-FPA-NI	3 OF 10

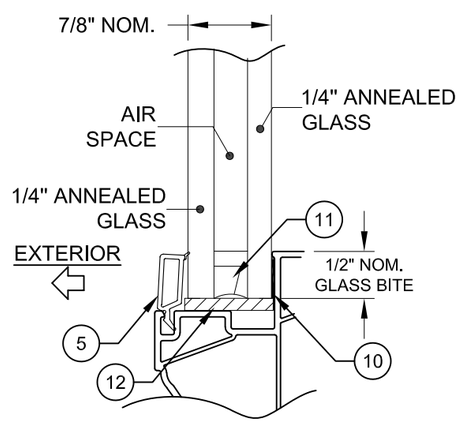
Series	Desc.	Title
PW820V	DP TABLES & GLASS TYPES	VINYL FIXED WINDOW (NI)

ANTHONY LYNN MILLER
LICENSE
No. 58705
A. Lynn Miller
08/18/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

TABLE C:

Window Design Pressure (+/- psf)																								
Glass Type 3: 7/8" IG (1/4"A - AIRSPACE - 1/4"A)																								
Window Dimensions		Long Side (in.)																						
		74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120
Short Side (in.)	44	80.0	78.1	75.2	73.2	71.2	69.2	67.3	65.3	63.3	61.1	58.8	56.7	55.6	54.5	53.4	52.3	51.2	50.3	49.4	48.4	47.5	46.8	46.2	45.6
	46	80.0	77.1	74.5	72.6	70.7	68.7	66.7	64.6	62.6	60.5	58.3	56.1	54.6	53.2	52.1	50.9	49.8	48.4	47.2	46.4	45.6	45.0	44.4	43.6
	48	79.4	76.3	74.0	72.1	70.3	68.3	66.2	64.2	62.1	60.1	57.9	55.8	54.4	53.0	51.5	50.0	48.7	47.5	46.4	45.5	44.5	43.6	42.9	42.2
	50	78.6	75.6	73.5	71.6	69.8	67.8	65.9	63.9	61.9	59.7	57.6	55.8	54.4	52.9	51.5	49.9	48.4	46.9	46.0	45.1	44.2			
	52	77.4	74.9	73.0	71.1	69.2	67.3	65.4	63.5	61.5	59.5	57.4	55.6	54.2	52.9	51.5	49.9	48.4	47.0	45.9					
	54	75.9	74.0	72.3	70.7	68.7	66.8	64.9	63.0	61.1	59.3	57.2	55.6	54.2	52.7	51.4	50.0	48.4							
	56	74.7	72.9	71.3	69.7	68.1	66.3	64.4	62.4	60.6	58.7	56.8	55.4	54.1	52.7	51.3									
	58	73.8	72.0	70.2	68.5	67.0	65.5	63.9	61.9	60.0	58.1	56.4	55.1	54.0											
	60	72.7	70.9	69.1	67.5	65.8	64.2	62.8	61.3	59.5	57.6	56.0	54.6												
	62	71.3	69.8	68.1	66.4	64.6	63.0	61.5	60.1	58.7	57.1														
	64	69.7	68.2	66.8	65.2	63.5	61.9	60.3	58.7	57.2															
	66	68.1	66.6	65.2	63.8	62.2	60.6	59.0																	
	68	66.6	65.1	63.6	62.1	60.7	59.3																		
	70	65.2	63.6	62.0	60.5	59.1																			
	72	63.8	62.1	60.5	59.0																				
	74	62.3	60.7																						



GLASS TYPE 3

NOTES:
1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.

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N. VENICE, FL 34275
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REGISTRATION #29296

Impact Resistant Windows & Doors

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

Date	Drawn By	Title	Desc.	Series
04/17/23	LOGAN YODER	VINYL FIXED WINDOW (NI)	DP TABLES & GLASS TYPES	PW820V-FPA-NI

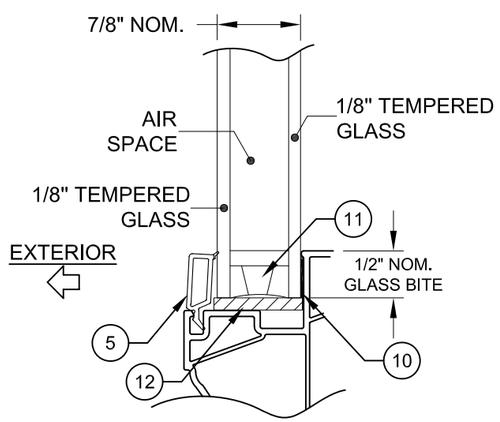
DWG No.	Sheet	
PW820V	4 OF 10	

ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
08/18/23

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

TABLE D:

Window Design Pressure (+/- psf)																				
Glass Type 4: 7/8" IG (1/8"T - AIRSPACE - 1/8"T)																				
Window Dimensions		Long Side (in.)																		
		48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84
Short Side (in.)	18	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	20	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	22	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	24	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	26	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	28	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	30	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
	32	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
	34	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0						
	36	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0								
	38	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0										
	40	100.0	100.0	100.0	100.0	100.0	100.0	100.0												
	42	100.0	100.0	100.0	100.0	100.0	100.0													
	44	100.0	100.0	100.0	100.0															
	46	100.0	100.0	100.0																
	48	100.0	100.0																	



GLASS TYPE 4

NOTES:
1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.

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1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
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REGISTRATION #29296

Impact Resistant Windows & Doors

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

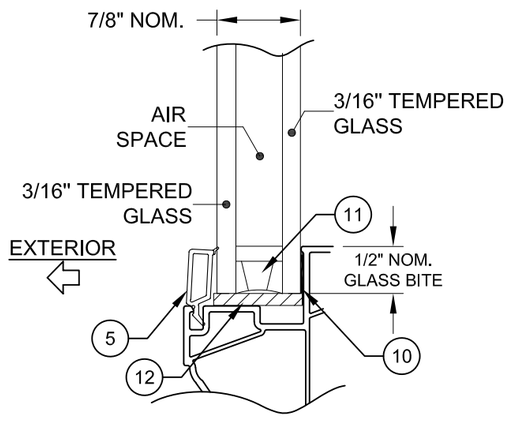
Title	Desc.	Series
VINYL FIXED WINDOW (NI)	DP TABLES & GLASS TYPES	PW820V

Date: 04/17/23
Drawn By: LOGAN YODER
DWG No.: PW820V-FPA-NI
Sheet: 5 OF 10

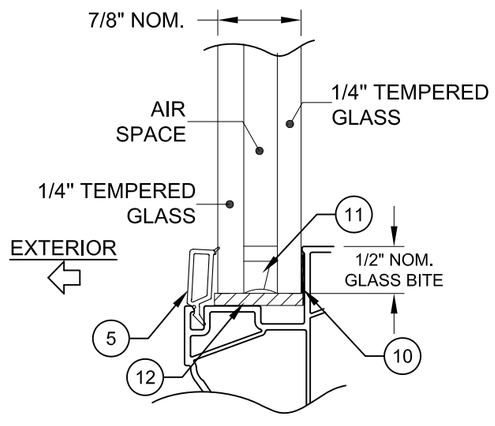
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
08/18/23
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE E:

Window Dimensions	Window Design Pressure (+/- psf) Glass Type 5: 7/8" IG (3/16"T - AIRSPACE - 3/16"T) Glass Type 6: 7/8" IG (1/4"T - AIRSPACE - 1/4"T) Long Side (in.)																							
	75.875	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120
46	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	84.5	84.1	83.7	80.0	80.0	80.0	80.0
48	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	84.4	83.9	83.4	82.9	82.4	82.0	80.0	80.0	80.0	80.0	80.0	80.0
50	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	84.7	84.0	83.4	82.7	82.2	81.6	81.1	80.0	80.0	80.0	80.0	80.0	80.0			
52	85.0	85.0	85.0	85.0	85.0	85.0	84.3	83.5	82.8	82.0	81.3	80.7	80.1	80.0	80.0	80.0	80.0	80.0	80.0					
54	85.0	85.0	85.0	85.0	84.5	83.5	82.6	81.7	81.0	80.2	80.0	80.0	80.0	80.0	80.0	80.0	80.0							
56	85.0	85.0	85.0	84.1	83.0	82.0	81.0	80.1	80.0	80.0	80.0	80.0	80.0	80.0	80.0									
58	85.0	85.0	84.0	82.8	81.6	80.6	80.0	80.0	80.0	80.0	80.0	80.0	80.0											
60	84.4	84.3	82.9	81.6	80.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0												
62	83.4	83.4	81.9	80.6	80.0	80.0	80.0	80.0	80.0	80.0														
64	82.7	82.6	81.1	80.0	80.0	80.0	80.0	80.0	80.0															
66	82.0	81.9	80.4	80.0	80.0	80.0	80.0																	
68	81.5	81.4	80.0	80.0	80.0	80.0																		
70	80.0	80.0	80.0	80.0	80.0																			
72	80.0	80.0	80.0	80.0																				
74	80.0	80.0																						
75.875	80.0																							



GLASS TYPE 5



GLASS TYPE 6

NOTES:
1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.

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PREPARED BY A. LYNN MILLER
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REGISTRATION #29296

Impact Resistant Windows & Doors

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

Date: 04/17/23
Drawn By: LOGAN YODER
DWG No.: PW820V-FPA-NI
Title: VINYL FIXED WINDOW (NI)
Desc.: DP TABLES & GLASS TYPES
Sheet: 6 OF 10
Series: PW820V

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08/18/23
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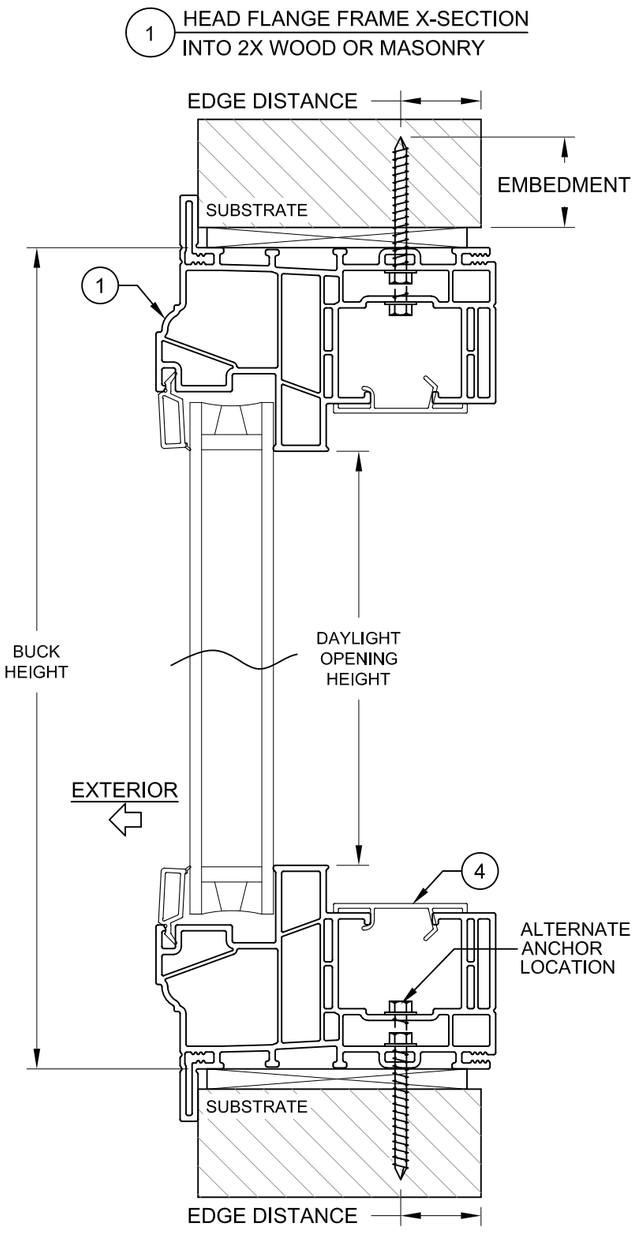
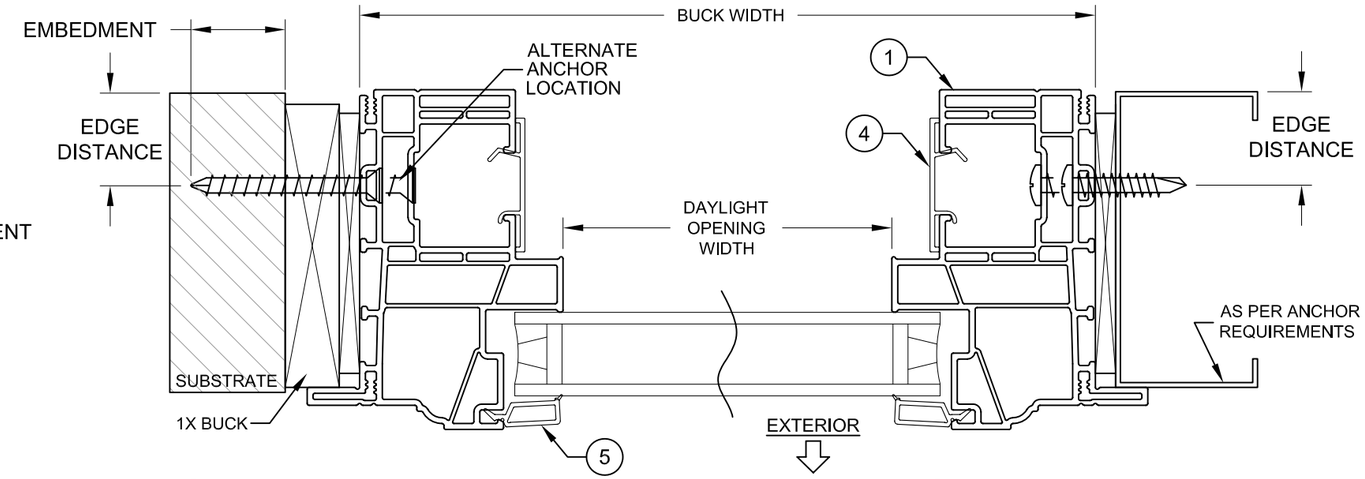
P.E.# 58705



1 HEAD FLANGE FRAME X-SECTION
INTO 2X WOOD OR MASONRY

2 SILL FLANGE FRAME X-SECTION
INTO 2X WOOD OR MASONRY



3 JAMB FLANGE FRAME X-SECTION
THRU 1X INTO 2X WOOD OR MASONRY

4 JAMB FLANGE FRAME X-SECTION
USING SCREWS INTO METAL

TABLE 2: INSTALLATION ANCHORS

Anchor	Substrate	Minimum Edge Distance	Minimum Embedment
#10 or #12 Steel or 410 SS Screw	Southern Pine (SG = .55)	9/16"	1-3/8"
	Aluminum, 6063-T5 min.	3/8"	0.050"
	Steel Stud, Gr. 33 min.	3/8"	0.045" (20 Ga)
	A36 Steel	3/8"	0.050"
3/16" Steel Ultracon+	Concrete (min. 2.9 ksi)	1"	1-3/4"
	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
	Southern Pine (SG = .55)	1"	1-3/8"
1/4" Steel Ultracon+	Concrete (min. 3.0 ksi)	1"	1-3/8"
	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
	Southern Pine (SG = .55)	1"	1-3/8"

1) ANCHOR MUST EXTEND A MIMIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.

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

3) ALL ANCHOR HEAD TYPES ARE APPLICABLE.

INSTALLATION NOTES:

1) SEE SHEET 1 FOR ANCHOR SPACING REQUIREMENTS.

2) ANY INSTALLATION OPTION SHOWN (2X BUCK, 1X BUCK, DIRECT TO MASONRY, STEEL STUD) MAY BE USED ON ANY SIDE OF THE WINDOW.

3) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN ANCHOR TABLE. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. MAX. SHIM THICKNESS TO BE 1/4". ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY OR ALL SIDES OF THE WINDOW.

Rev.	Rev.#	Date
MINOR EDITORIAL UPDATES	A	08/17/23

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Impact Resistant Windows & Doors

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

Date	Drawn By	No.	DWG No.	Sheet
04/17/23	LOGAN YODER	PW820V-FPA-NI	7 OF 10	PW820V

Title	Desc.	Series
VINYL FIXED WINDOW (NI)	FLANGE INSTALL SECTION VIEWS	

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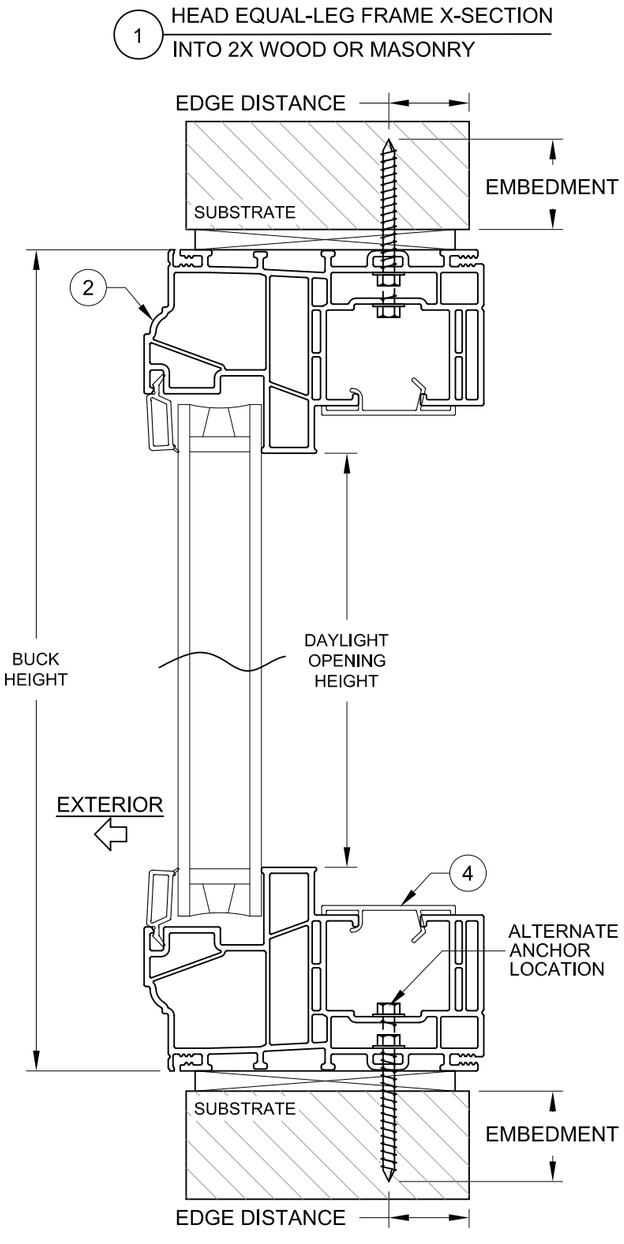
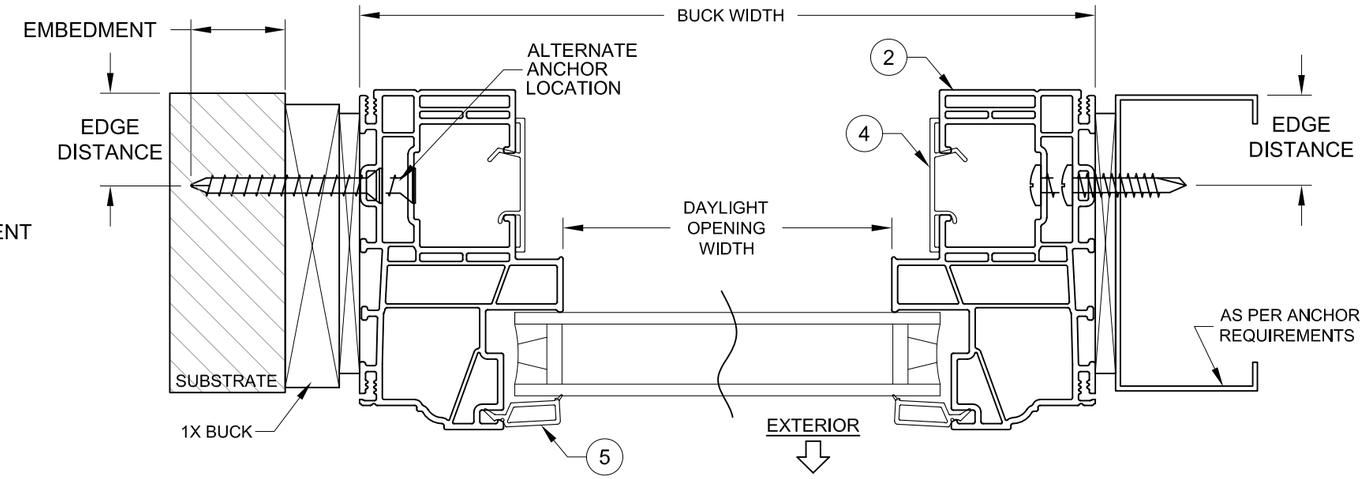


1 HEAD EQUAL-LEG FRAME X-SECTION
INTO 2X WOOD OR MASONRY

2 SILL EQUAL-LEG FRAME X-SECTION
INTO 2X WOOD OR MASONRY



3 JAMB EQUAL-LEG FRAME X-SECTION
THRU 1X INTO 2X WOOD OR MASONRY

4 JAMB EQUAL-LEG FRAME X-SECTION
USING SCREWS INTO METAL

TABLE 3: INSTALLATION ANCHORS

Anchor	Substrate	Minimum Edge Distance	Minimum Embedment
#10 or #12 Steel or 410 SS Screw	Southern Pine (SG = .55)	9/16"	1-3/8"
	Aluminum, 6063-T5 min.	3/8"	0.050"
	Steel Stud, Gr. 33 min.	3/8"	0.045" (20 Ga)
	A36 Steel	3/8"	0.050"
3/16" Steel Ultracon+	Concrete (min. 2.9 ksi)	1"	1-3/4"
	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
	Southern Pine (SG = .55)	1"	1-3/8"
1/4" Steel Ultracon+	Concrete (min. 3.0 ksi)	1"	1-3/8"
	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
	Southern Pine (SG = .55)	1"	1-3/8"

1) ANCHOR MUST EXTEND A MIMIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.

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

3) ALL ANCHOR HEAD TYPES ARE APPLICABLE.

INSTALLATION NOTES:

1) SEE SHEET 1 FOR ANCHOR SPACING REQUIREMENTS.

2) ANY INSTALLATION OPTION SHOWN (2X BUCK, 1X BUCK, DIRECT TO MASONRY, STEEL STUD) MAY BE USED ON ANY SIDE OF THE WINDOW.

3) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN ANCHOR TABLE. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. MAX. SHIM THICKNESS TO BE 1/4". ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY OR ALL SIDES OF THE WINDOW.

Rev.	Rev.#	Date
MINOR EDITORIAL UPDATES	A	08/17/23

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Date	Drawn By	DWG No.	Sheet
04/17/23	LOGAN YODER	PW820V-FPA-NI	8 OF 10

Title	Desc.	Series
VINYL FIXED WINDOW (NI)	EQUAL-LEG INSTALLATION SECTION VIEWS	PW820V

Impact Resistant Windows & Doors

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

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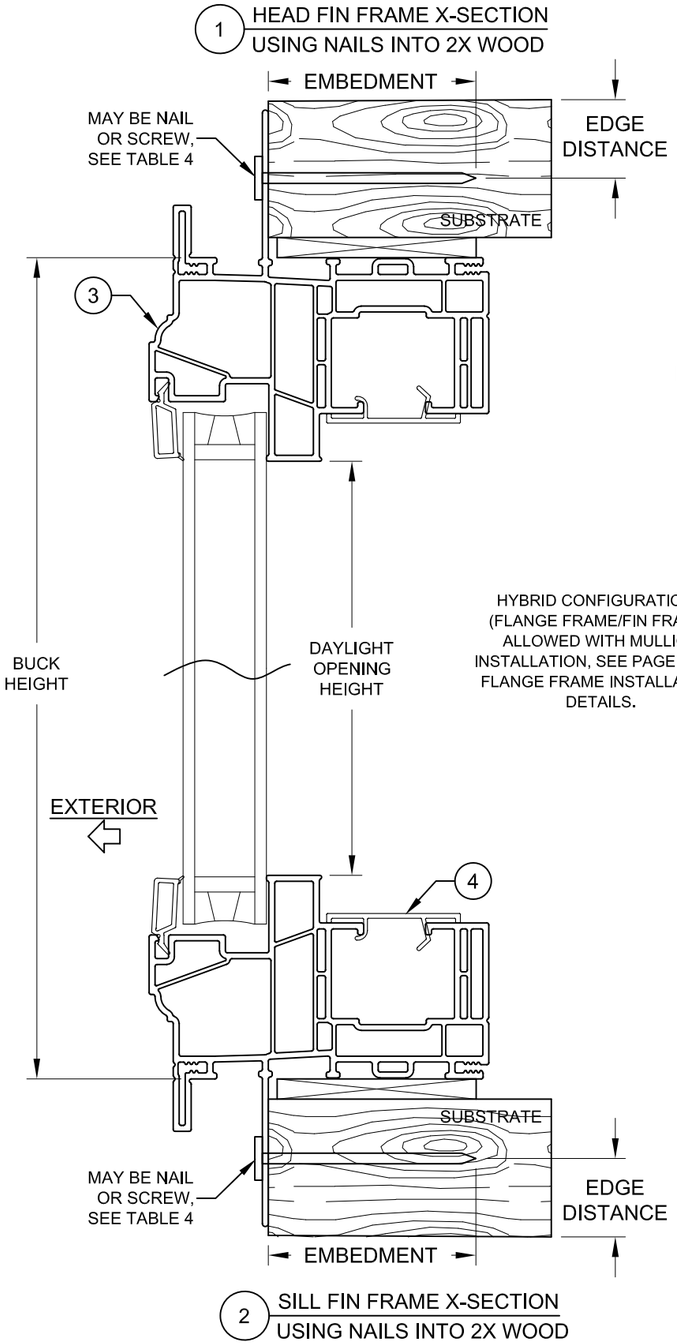
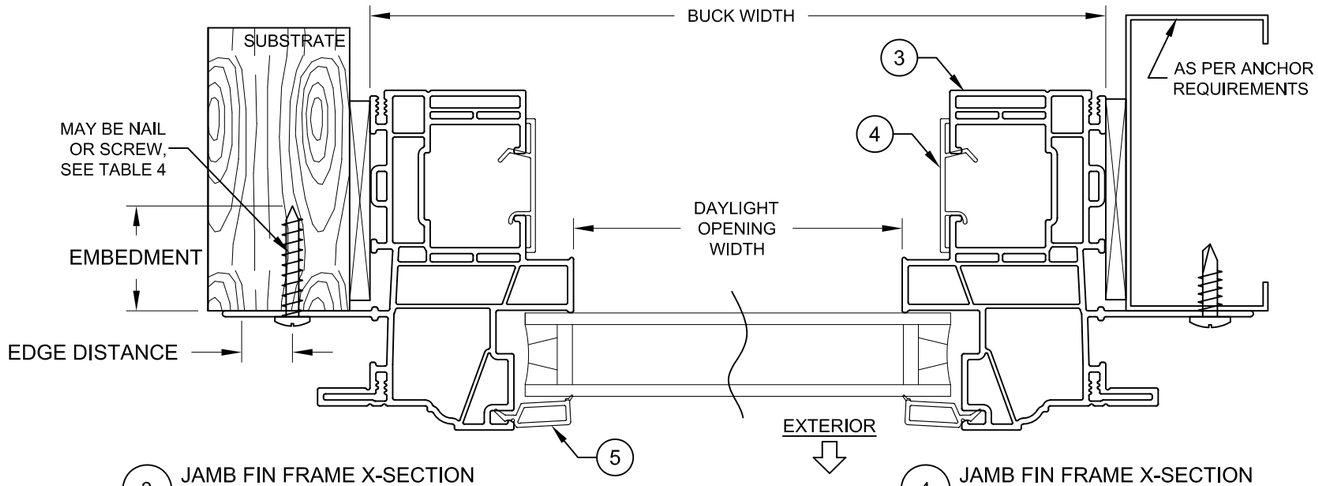


1 HEAD FIN FRAME X-SECTION
USING NAILS INTO 2X WOOD

2 SILL FIN FRAME X-SECTION
USING NAILS INTO 2X WOOD

HYBRID CONFIGURATIONS (FLANGE FRAME/FIN FRAME) ALLOWED WITH MULLION INSTALLATION, SEE PAGE 7 FOR FLANGE FRAME INSTALLATION DETAILS.



3 JAMB FIN FRAME X-SECTION
USING SCREWS INTO 2X WOOD

4 JAMB FIN FRAME X-SECTION
USING SCREWS INTO METAL

TABLE 4: INSTALLATION ANCHORS

Anchor	Substrate	Min. Edge Distance	Min. Embedment
2-1/2" x .113" Box Nail	P.T. Southern Pine (SG = .55)	5/16"	2-7/16"
2-1/2" x .131" Common Nail	P.T. Southern Pine (SG = .55)	3/8"	2-7/16"
2-1/2" x .145" Roofing Nail	P.T. Southern Pine (SG = .55)	3/8"	2-7/16"
#10 Steel SMS	P.T. Southern Pine (SG = .55)	1/2"	1-3/8"
	Aluminum, 6063-T5 min.	3/8"	1/8"
	Steel Stud, Gr. 33 min.	3/8"	0.036
	A36 Steel	3/8"	1/8"

1) ANCHOR MUST EXTEND A MIMIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.

2) ALL ANCHOR HEAD TYPES ARE APPLICABLE.

INSTALLATION NOTES:

1) SEE SHEET 1 FOR SPACING REQUIREMENTS.

2) FLANGE AND/OR FIN MAY BE REMOVED TO CREATE OTHER APPROVED FRAME TYPES.

3) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN ANCHOR TABLE. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY OR ALL SIDES OF THE WINDOW.

4) MAX. SHIM THICKNESS TO BE 1/4". MAX. SHIM SPACING TO BE 18".

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Impact Resistant Windows & Doors

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

Series	Desc.	Title	Sheet	DWG No.	Drawn By	Date
PW820V	VINYL FIXED WINDOW (NI)	FIN INSTALLATION SECTION VIEWS	9 OF 10	PW820V-FPA-NI	LOGAN YODER	04/17/23

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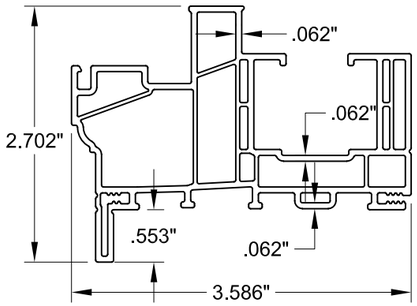
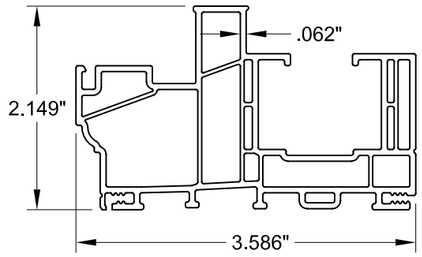
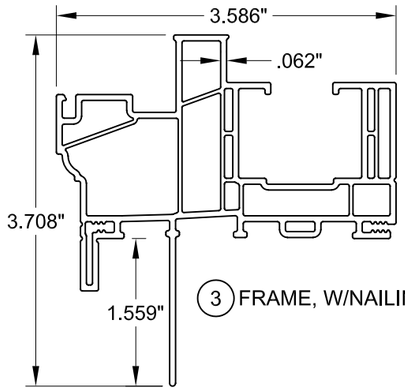


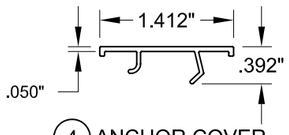
1 FRAME, W/FLANGE



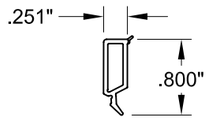
2 FRAME, EQUAL LEG



3 FRAME, W/NAILING FIN



4 ANCHOR COVER



5 GLAZING BEAD

TABLE 5:

#	Part #	Description	Material
1	9465	Frame, w/Flange	PVC
2	9465	Frame, Equal Leg	PVC
3	9455	Frame, w/Nailing Fin	PVC
4	9473	Anchor Cover	PVC
5	9736	Glazing Bead	PVC
10		Backbedding: RGS7700, Dow 791/983/995	SILICONE
11		Metal or TPS Spacer	VARIES
12	7061	Setting Block, 1/8" x 7/8" x 2"	EPDM

THE APPROVED WHITE, RIGID PVC EXTERIOR EXTRUSIONS ARE TO BE PRODUCED BY EXTRUDERS' LICENSEES UNDER "AAMA CERTIFICATION PROGRAMS FOR RIGID PVC EXTRUSIONS".

Rev.	Date	
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Impact Resistant Windows & Doors

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

Title	Desc.	Series
VINYL FIXED WINDOW (NI)	EXTRUSIONS/BOM	PW820V

Date 04/17/23
Drawn By LOGAN YODER
DWG No. PW820V-FPA-NI
Sheet 10 OF 10

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