

SERIES 4020A NON-IMPACT
FIXED WINDOW

FLORIDA PRODUCT APPROVAL #29700

DESIGN PRESSURE RATING	WATER PRESSURE RATING	IMPACT RATING
SEE SHEETS 4 & 5	15% OF THE (+) DESIGN PRESSURE UNLESS NOTED OTHERWISE	NOT RATED FOR IMPACT RESISTANCE

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING 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 AS PER TABLE 2. 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. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

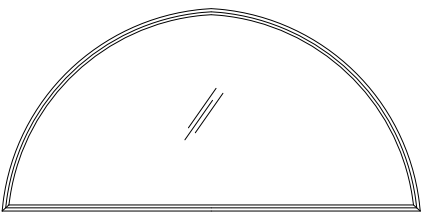
4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH. INSTALLATION ANCHORS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

5) SHIMS ARE REQUIRED AT EACH FLANGE ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW. MAXIMUM SHIM SPACING TO BE 18" WHEN INSTALLING THROUGH THE INTEGRAL FIN.

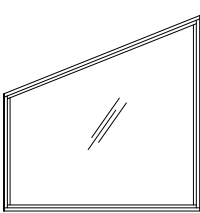
6) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO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

7) DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.

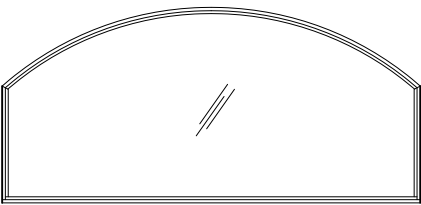
ALL WINDOW SHAPES QUALIFIED, COMMON EXAMPLES SHOWN BELOW:



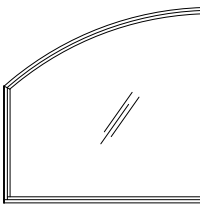
HALF CIRCLE/ARCH



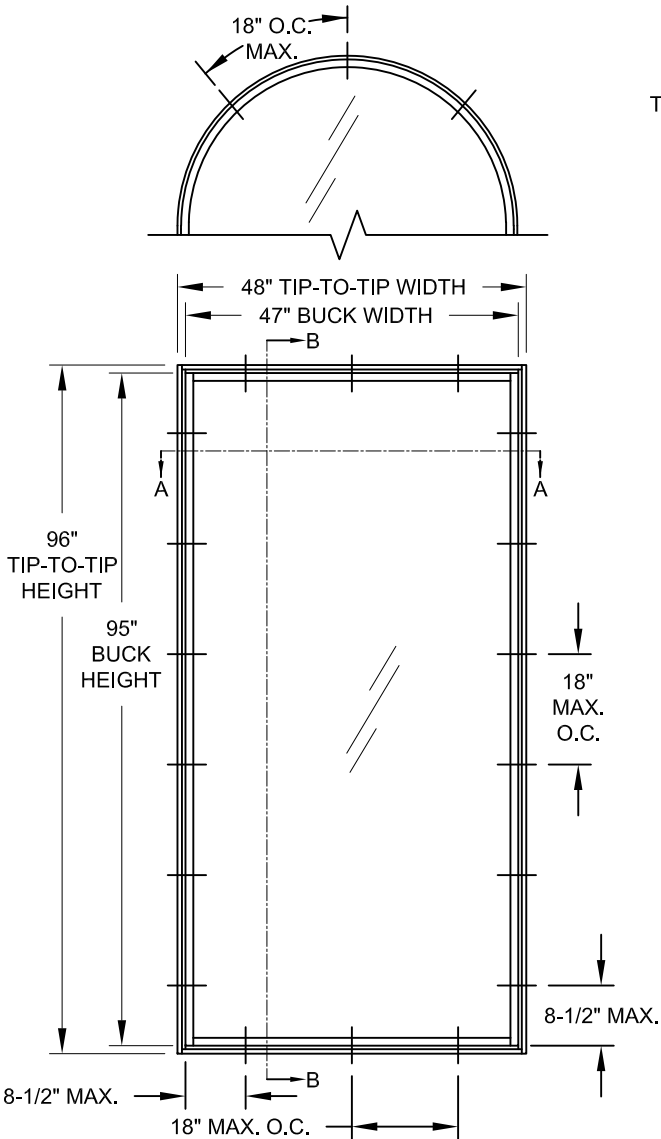
TRAPEZOID



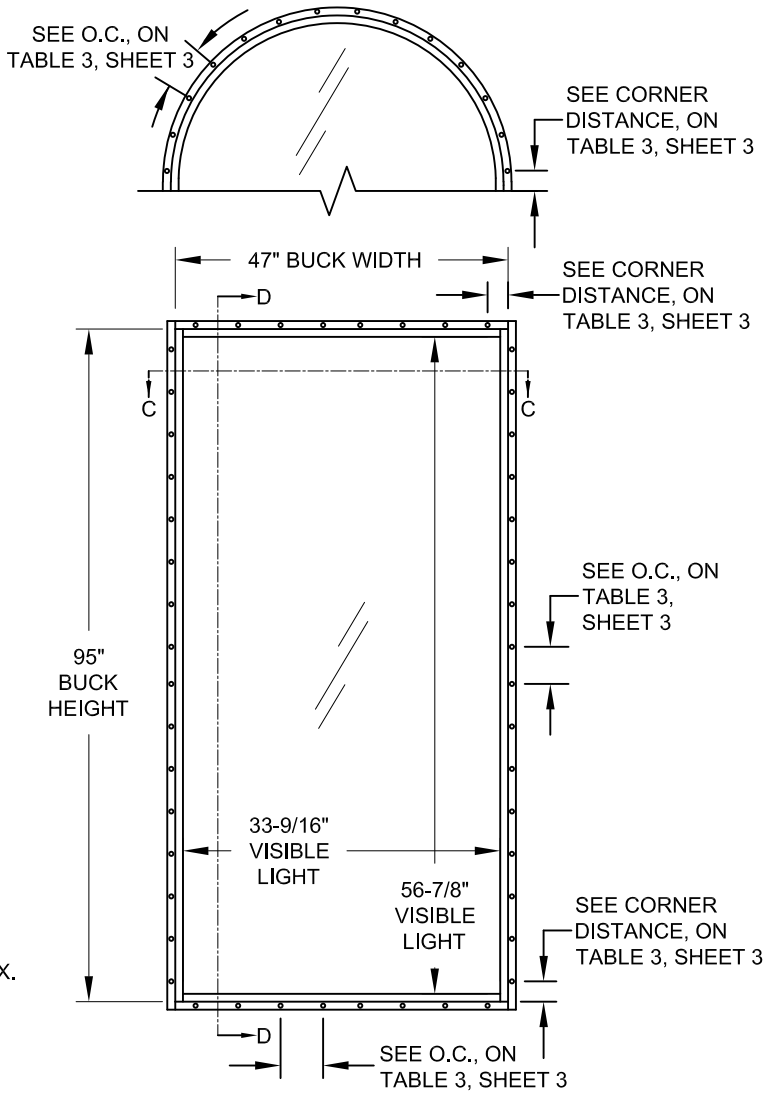
EYEBROW



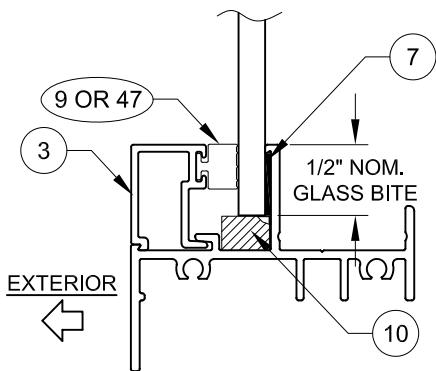
HALF EYEBROW



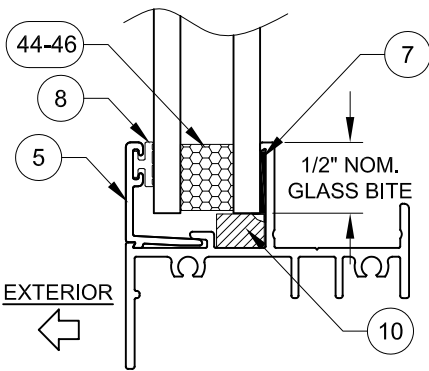
TYP. FLANGE FRAME
ANCHOR LOCATIONS
@ MAX. SIZE



TYP. FIN FRAME
ANCHOR LOCATIONS
@ MAX. SIZE



MONOLITHIC GLAZING DETAIL



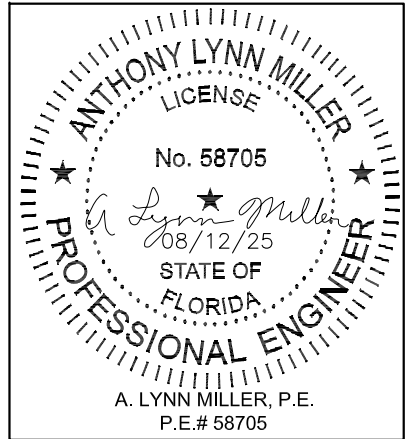
IG GLAZING DETAIL

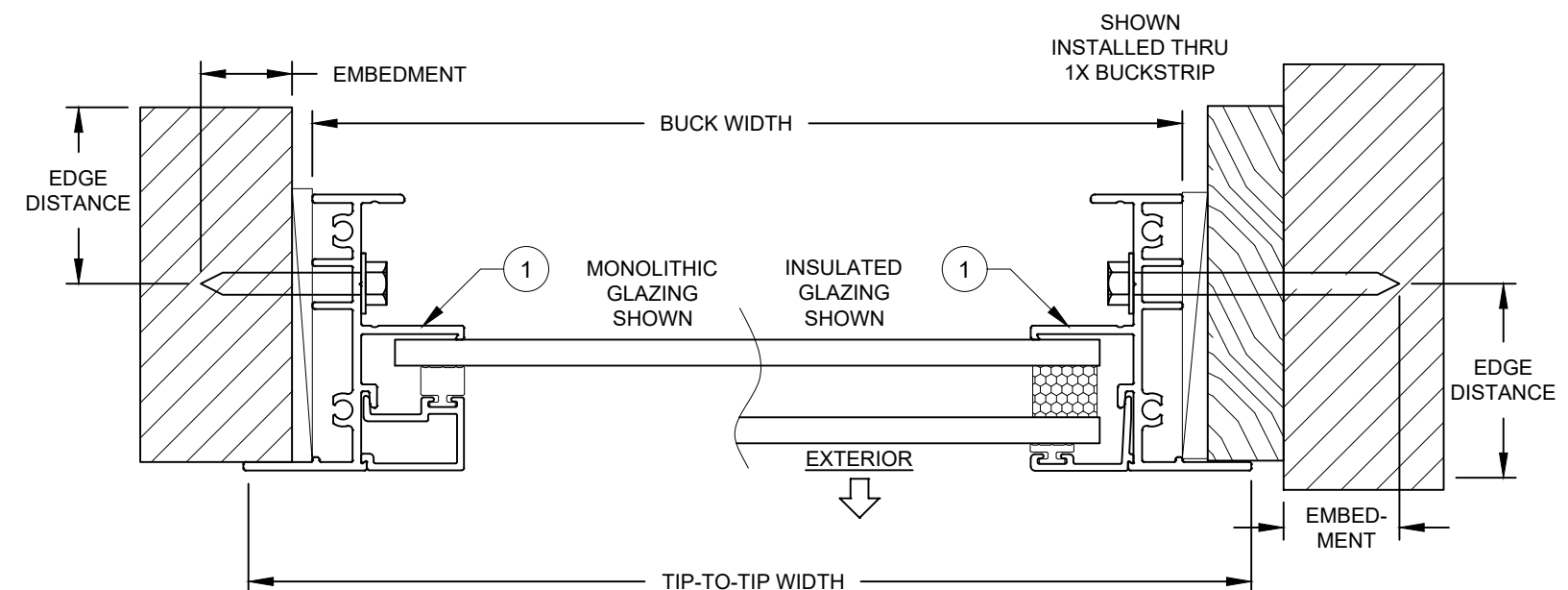
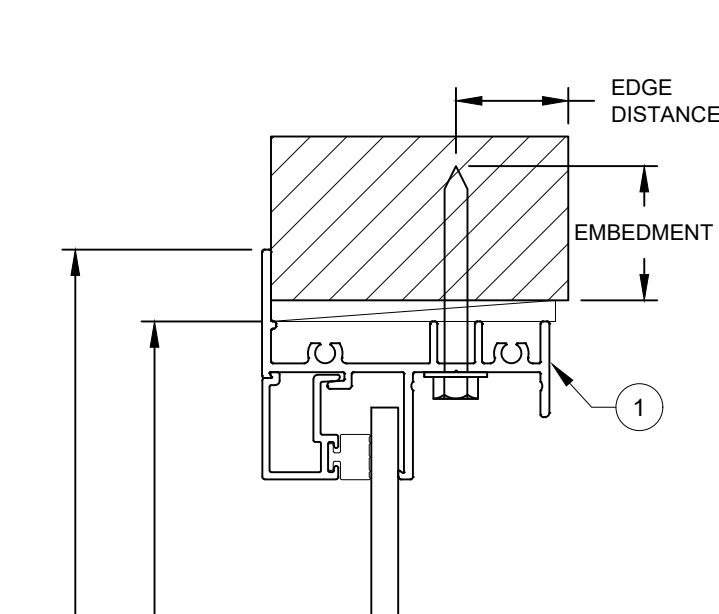
TABLE 1:

Glass Types	
1	3/16" Annealed
2	1/4" Annealed
3	3/16" Tempered
4	1/4" Tempered
5	3/16" Annealed, 3/8" Airspace, 3/16" Annealed
6	3/16" Tempered, 3/8" Airspace, 3/16" Tempered

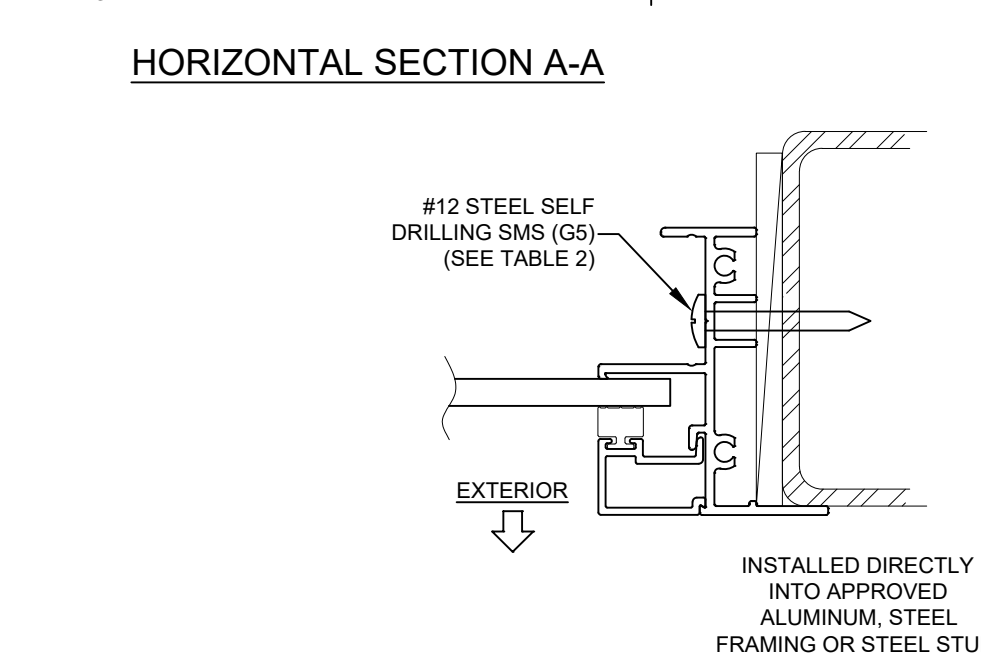
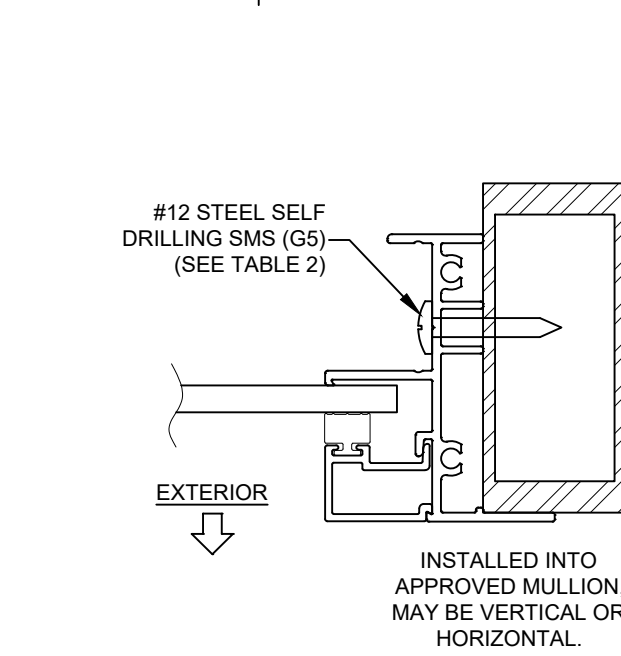
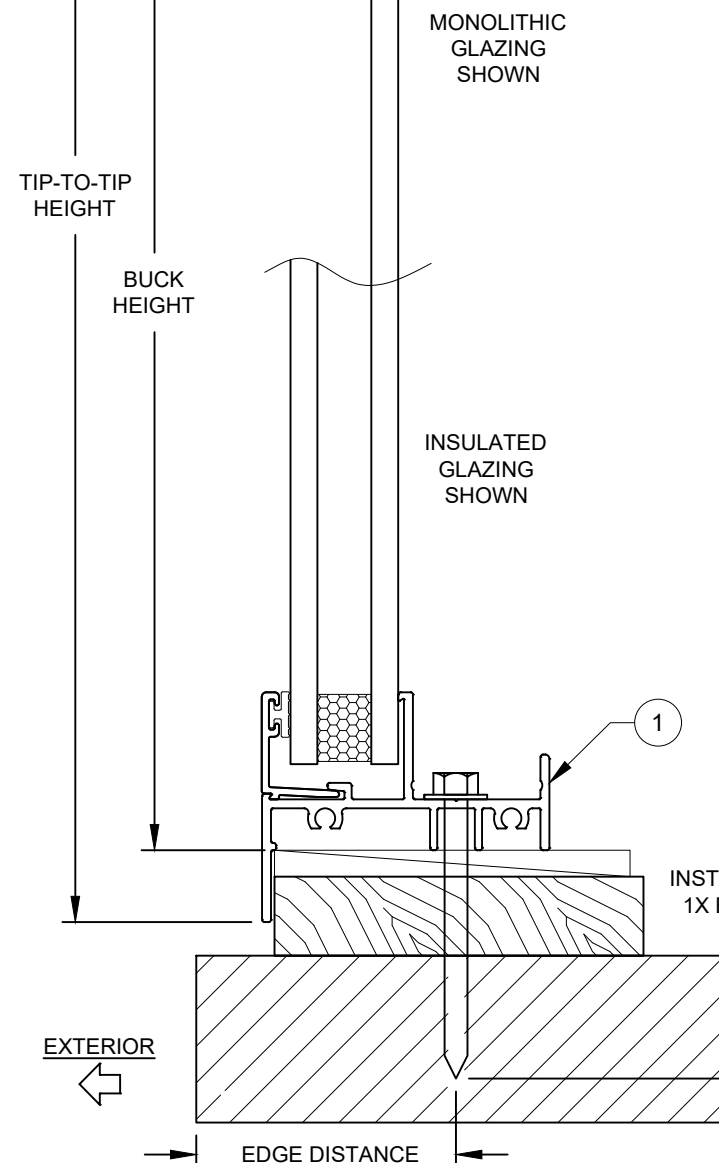
SEE SHEET 4 FOR GLASS DETAILS

PGT Custom Windows and Doors		3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		PREPARED BY A. LYNN MILLER 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600	
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ALUMINUM FIXED WINDOW (NI)		Date		08/12/25			
ELEVATION & GENERAL NOTES				A. MORLESIN			
PW-4020A		Sheet		1 OF 5		DWG No.	
PW4020FPA							
Series Desc.		Title		By		Drawn	





HORIZONTAL SECTION A-A



- NOTES:**
- 1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN TABLE 2. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
 - 2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 2. 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. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
 - 3) SEE SHEET 1 FOR SPACING REQUIREMENTS.
 - 4) MAX. SHIM THICKNESS TO BE 1/4".
 - 5) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.

TABLE 2:

Anchor	Substrate	Minimum Edge Distance	Minimum Embedment
#12 Steel, 18-8 SS or 410 SS Screw	Southern Pine (SG = .55)	9/16"	1-3/8"
	Aluminum, 6063-T5 min.	3/8"	0.062"
	Steel Stud, Gr. 33 min.	3/8"	0.045" (20 Ga)
	A36 Steel	3/8"	0.050"
1/4" Steel Ultracon+	Southern Pine (SG = .55)	1"	1-3/8"
	Concrete (min. 3.0 ksi)	1"	1-3/8"
	UngROUTED CMU, (ASTM C-90)	1"	1-1/4"
1/4" 410 SS CreteFlex	PSouthern Pine (SG = .55)	1"	1-3/8"
	Concrete (min. 3.35 ksi)	1"	1-3/4"
	Concrete (min. 3.35 ksi)	2-1/2"	1"
	UngROUTED CMU, (ASTM C-90)	1-3/4"	1-1/4"

- 1) ANCHOR MUST EXTEND A MINIMUM 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.

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ALUMINUM FIXED WINDOW (NI)

08/12/25
Date

By
A. MORLESIN

DWG No.
PW4020FPA

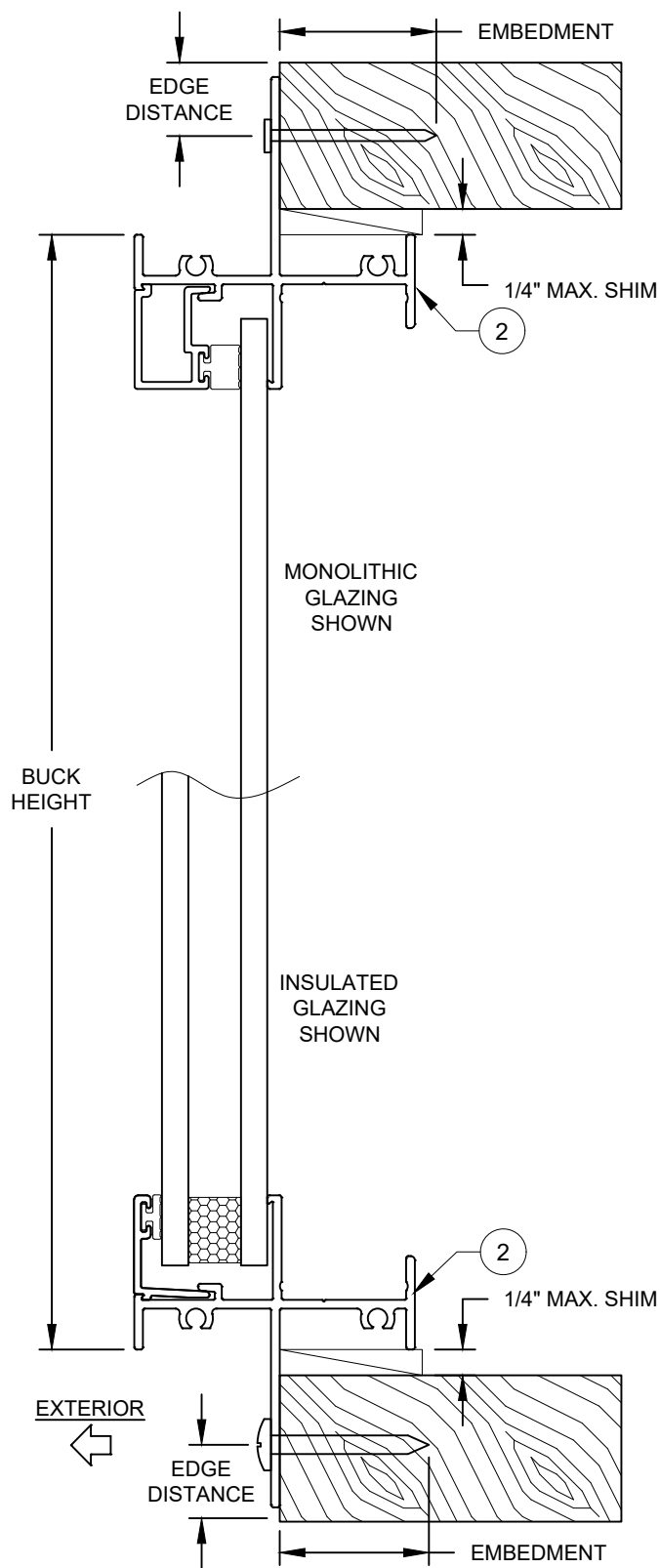
2 OF 5
Sheet

PW-4020A
Series

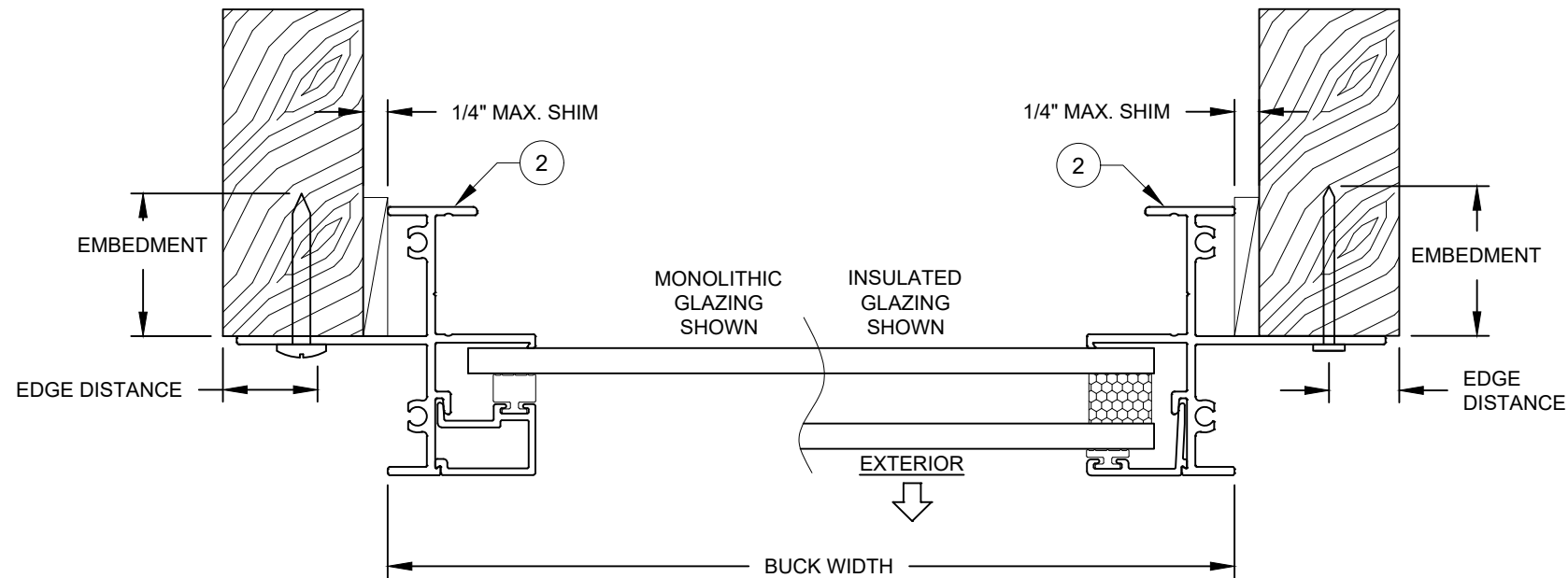
CROSS SECTION & GENERAL NOTES

NOTES

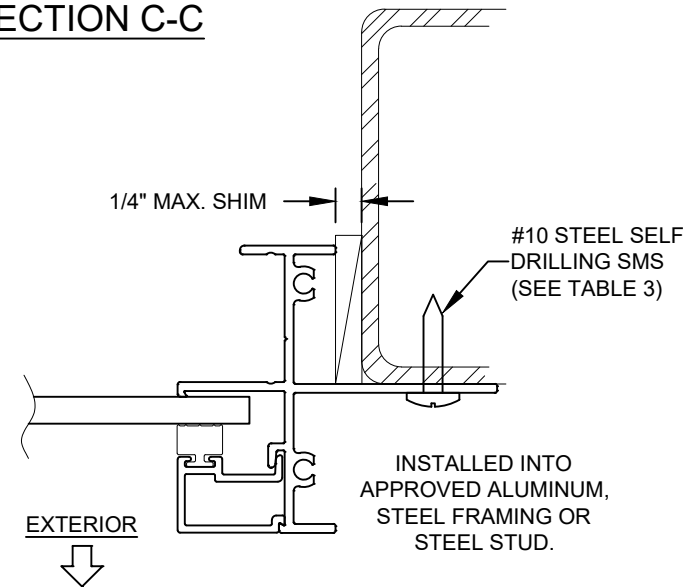
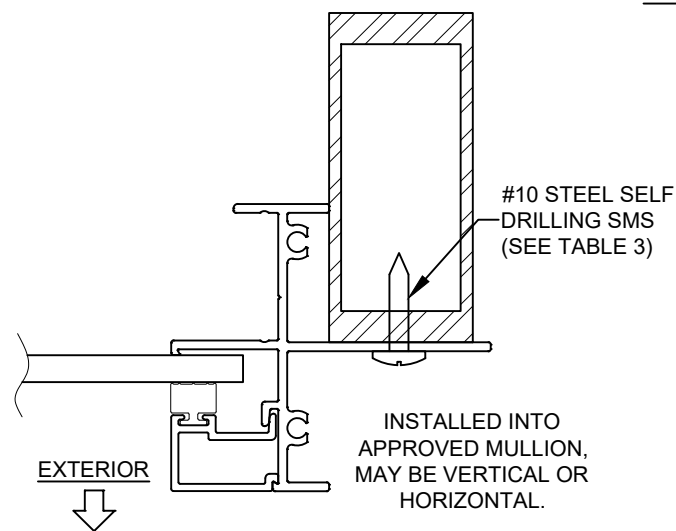
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LICENSE
No. 58705
08/12/25
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



VERTICAL SECTION D-D



HORIZONTAL SECTION C-C



NOTES:

- 1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN TABLE 3. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) 2X WOOD FRAMING OR BUCK, 1-1/2" THICK OR GREATER.
- 3) SEE SHEET 1 FOR SPACING REQUIREMENTS.
- 4) MAX. SHIM THICKNESS TO BE 1/4".
- 5) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.

TABLE 3: TROUGH-FIN ANCHORS

Anchor	Substrate	Min. Embedment or Metal Tickness	Min. Edge Distance	Max. On-center, Distance, OC	Max. Corner Distance
2-1/2" x .113" Box Nail	Southern Pine (SG = .55)	-	3/8"	6"	2-7/8"
2-1/2" x .131" Common Nail	Southern Pine (SG = .55)	-	3/8"		
2-1/2" x .145" Roofing Nail	Southern Pine (SG = .55)	-	3/8"		
#10 or #12 Steel SMS Screw (G5)	Southern Pine (SG = .55)	1-3/8"	9/16"	26"	8-1/2"
	Aluminum, 6063-T5 min	0.125"	7/16"		
	Steel Stud, Gr. 33 min.	0.057"	7/16"		
	A36 Steel	0.050"	7/16"		

- 1) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
- 2) ALL SCREW HEAD TYPES ARE APPLICABLE.

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ALUMINUM FIXED WINDOW (NI)

CROSS SECTION & GENERAL NOTES

PW-4020A

3 OF 5

3 OF 5

3 OF 5

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TABLE 4:

For Glass Types 1 & 2		Window Design Pressure (+/-, psf)													
		Short Side (in)													
		22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	47"
Long Side (in)	52"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	56"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-49.7	+/-48.6	+/-47.9
	60"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-49.5	+/-48.9	+/-48.4	+/-48	+/-47.3	+/-46.3		
	64"	+/-50	+/-50	+/-50	+/-50	+/-48.5	+/-46.7	+/-45.6	+/-45.1	+/-44.6	+/-44.2	+/-43.8			
	68"	+/-50	+/-50	+/-50	+/-49.5	+/-45.6	+/-42.9	+/-41.6	+/-41.2	+/-41.1					
	72"	+/-50	+/-50	+/-50	+/-47.5	+/-42.6	+/-40.4	+/-39.3	+/-38.7						
	75"	+/-50	+/-50	+/-50	+/-46.1	+/-41.3	+/-39	+/-37.5	+/-36.8						
	80"	+/-50	+/-50	+/-50	+/-44.1	+/-39.7	+/-36.8								
	84"	+/-50	+/-50	+/-49.6	+/-42.9	+/-38.6	+/-35.2								
	88"	+/-50	+/-50	+/-48.7	+/-41.8	+/-37.5									
	92"	+/-50	+/-50	+/-47.9	+/-41.1										
	95"	+/-50	+/-50	+/-47.4	+/-40.6										

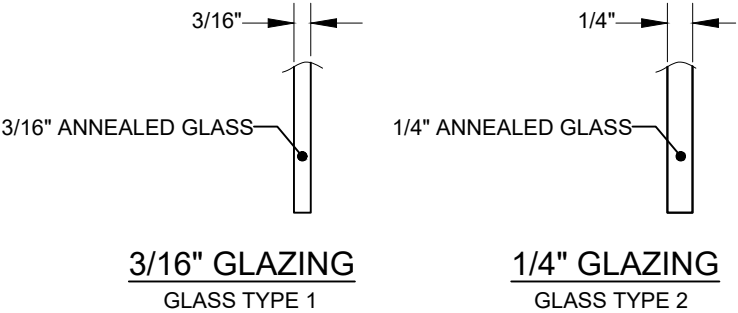
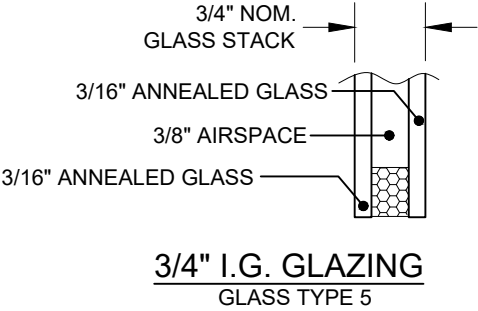


TABLE 5:

For Glass Type 5		Window Design Pressure (+/-, psf)													
		Short Side (in)													
		22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	47"
Long Side (in)	80"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	84"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	88"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	92"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-49	+/-48.6	+/-48.2	+/-48.4	+/-48.6	+/-48.8
	95"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-49.3	+/-47.2	+/-46.3	+/-46.1	+/-46.1	+/-46.3	+/-46.4



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

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ALUMINUM FIXED WINDOW (NI)

DESIGN PRESSURE TABLES AND
GLASS DETAILS

Series

Desc.

Title

PW-4020A

4 OF 5

DWG

PW4020FPA

By

Date

A. MORLESIN

08/12/25

ANTHONY LYNN MILLER

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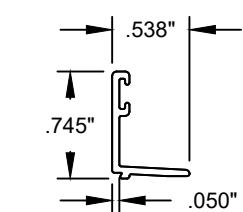
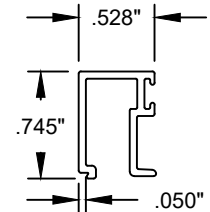
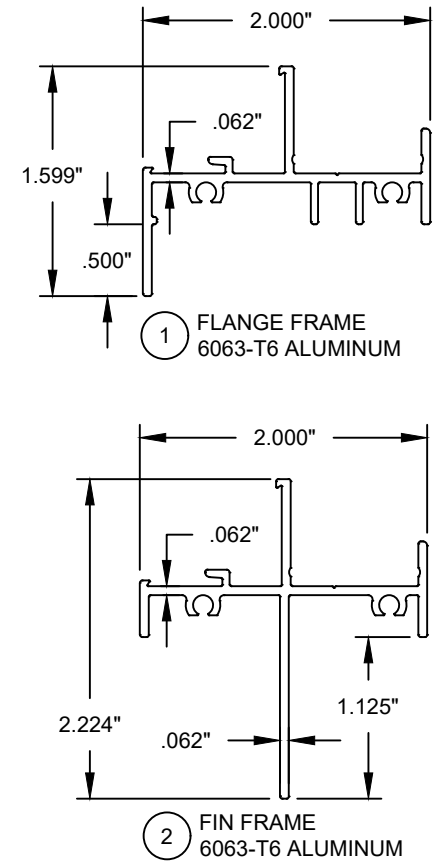
TABLE 6:

For Glass Types 3, 4 & 6		Window Design Pressure (+/-, psf)																			
		Short Side (in)																			
		30"	32"	34"	36"	38"	40"	42"	44"	46"	47"	48"	50"	52"	54"	56"	58"	60"	62"	64"	66-13/16"
Long Side (in)	66-13/16"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	72"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50		
	76"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-49.3				
	80"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-49.4				
	84"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-49.3						
	88"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-49.4								
	92"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-49.9									
	95"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50										
	96"	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50											
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	144"	+/-50																			

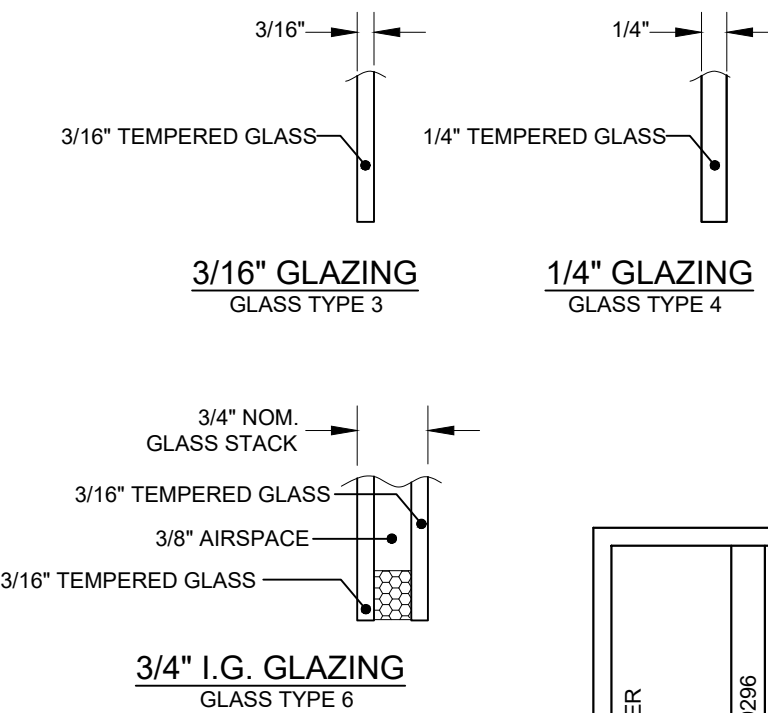
NOTES:
1) BUCK DIMENSIONS SHOWN.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.

TABLE 7:

Item #	Description
1	Flange Frame
2	Integral Fin Frame
3	Glazing Bead, 5/16" Lami, 3/16" & 1/4" Mono
5	Glazing Bead, 3/4" IG
7	Dow 791, 899, 983 or RGS-7700 Silicone
8	Vinyl Bulb Glazing Gasket
9	Vinyl Glazing Gasket
10	Setting Block 3/16" x 5/16" x 1-1/2"
12	#8 X 1" Panhead SMS (Assembly Screw)
44	Kommerling Kodispace 4SG TPS
45	Quanex Super Spacer nXT with Hot Melt Butyl
46	Metal IG Spacer
47	Vinyl Glazing Gasket - 1/4" Mono



MATERIALS



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ALUMINUM FIXED WINDOW (NI)
D.P. TABLES, GLASS DETAILS
AND EXTRUSIONS

08/12/25
A. MORLESIN
PW4020FPA

5 OF 5
PW-4020A

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