MODEL 9650 FIXED WINDOW, IMPACT RESISTANT, FLANGE, EQUAL-LEG & FIN FRAMES

DP RATING	LARGE & SMALL MISSILE IMPACT RESISTANT
SEE TABLES A-H	

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE (IBC) AND THE 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) FOR THE DESIGN PRESSURES LISTED.

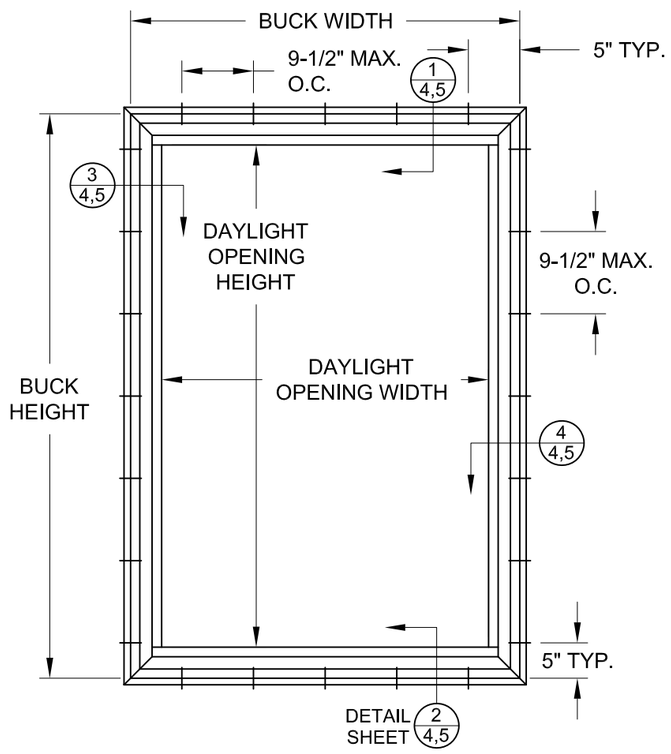
2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

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.

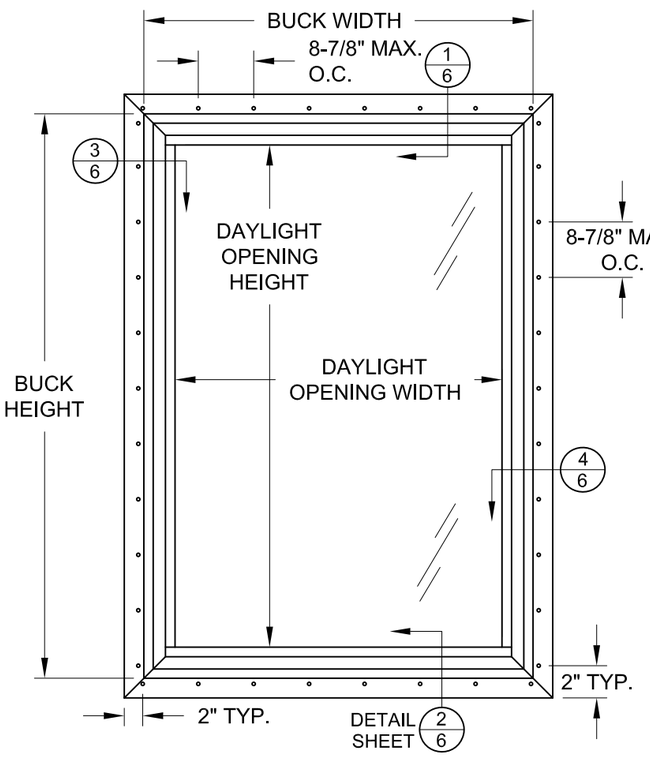
4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH.

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 BUILDING CODE FOR CORROSION RESISTANCE.



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



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

TABLE 1:

Max. Buck Width*	Max. Buck Height*	Design Pressure (+) psf	Design Pressure (-) psf	Frame Type	Glass Types	Design Pressure and Size Limitation Table #	Certification
36	48	85.0	85.0	Flange, Equal-Leg	9 & 10	H	NI014873
36	72	70.0	70.0	All	1, 3, 5 & 6	A, C & E	NI011971.02
60	84	60.0	60.0	All	2, 4, 7 & 8	B, D, F & G	NI011971

* ACTUAL SIZE MAY VARY DEPENDING ON GLASS TYPE CHOSEN, SEE TABLE LISTED.

DAYLITE OPENING WIDTH = BUCK WIDTH - 4.298
DAYLITE OPENING HEIGHT = BUCK HEIGHT - 4.298

STATE OF TEXAS · ANTHONY LYNN MILLER · 106954 · LICENSED PROFESSIONAL ENGINEER
A. Lynn Miller 01/05/22
A. LYNN MILLER, P.E., P.E.# 106954

PREPARED BY: A. LYNN MILLER, P.E.
1070 TECHNOLOGY DR
N. VENICE, FL 34275
(941)-480-1600

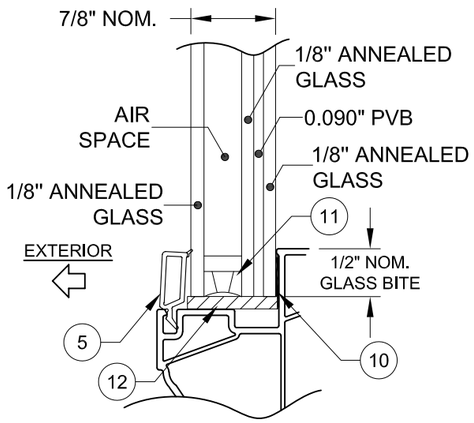
BY: FIXED WINDOW FPA, LM
GEN. NOTES AND ANCHOR ELEVATIONS
NEWSOUTH WINDOW SOLUTIONS
10741 CROSSROADS COMMERCE BLVD.
TAMPA, FL 33610

#:	DATE:	REVISION:	BY:

DATE: 12/12/21
SCALE: NTS
BY: JENS ROSOWSKI
DRAWING # : PW9650-TDI-01
SHEET: 1 OF 8

TABLE A:

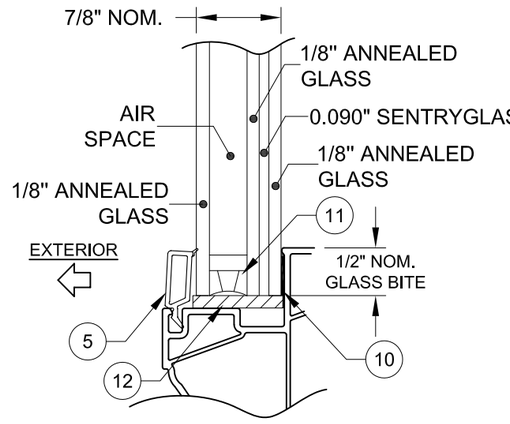
Window Design Pressure (+/- psf)								
Glass Type 1: 7/8" LIG (1/8" A - airspace - 5/16" A/A .090 PVB)								
		Long Side (in)						
		60	62	64	66	68	70	72
Short Side (in)	26	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	28	70.0	70.0	70.0	70.0	70.0	70.0	
	30	70.0	70.0	70.0	70.0			
	32	70.0	70.0	70.0				
	34	70.0	70.0					
	36	70.0						



GLASS TYPE 1

TABLE B:

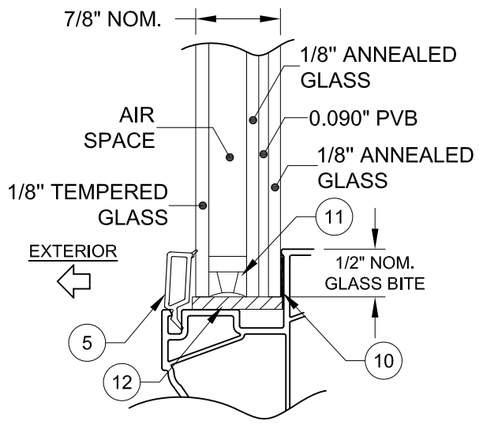
Window Design Pressure (+/- psf)												
Glass Type 2: 7/8" LIG (1/8" A - airspace - 5/16" A/A .090 SG)												
		Long Side (in)										
		62	64	66	68	70	72	74	76	78	80	82	84
Short Side (in)	38	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	40	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	
	42	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0		
	44	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0				
	46	60.0	60.0	60.0	60.0	60.0	60.0	60.0					
	48	60.0	60.0	60.0	60.0	60.0	60.0						
	50	60.0	60.0	60.0	60.0								
	52	60.0	60.0	60.0									
	54	60.0											



GLASS TYPE 2

TABLE C:

Window Design Pressure (+/- psf)								
Glass Type 3: 7/8" LIG (1/8" T - airspace - 5/16" A/A .090 PVB)								
		Long Side (in)						
		58	60	62	64	66	68	70	72
Short Side (in)	26	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	28	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	30	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	32	70.0	70.0	70.0	70.0	70.0	70.0		
	34	70.0	70.0	70.0	70.0	70.0			
	36	70.0	70.0	70.0	70.0				



GLASS TYPE 3

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

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STATE OF TEXAS · ANTHONY LYNN MILLER · 106954 · LICENSED PROFESSIONAL ENGINEER

A. Lynn Miller 01/05/22

A. LYNN MILLER, P.E., P.E.# 106954

FIRM REG. NO.: F-23136

FIXED WINDOW FPA, LM

DP TABLES & GLASS TYPES

NEWSOUTH WINDOW SOLUTIONS
10741 CROSSROADS COMMERCE BLVD.
TAMPA, FL 33610

BY:	REVISION:	DATE:	#:

DATE: 12/12/21

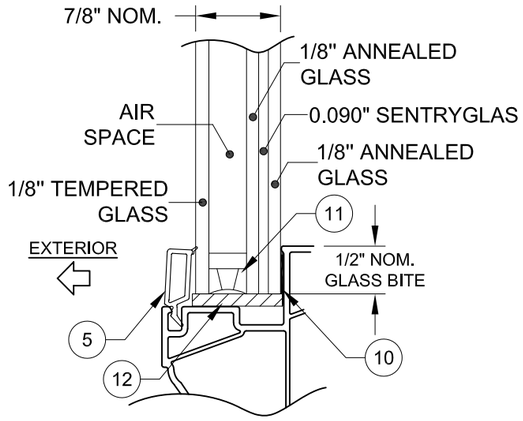
SCALE: NTS

BY: JENS ROSOWSKI

DRAWING # : PW9650-TDI-01

TABLE D:

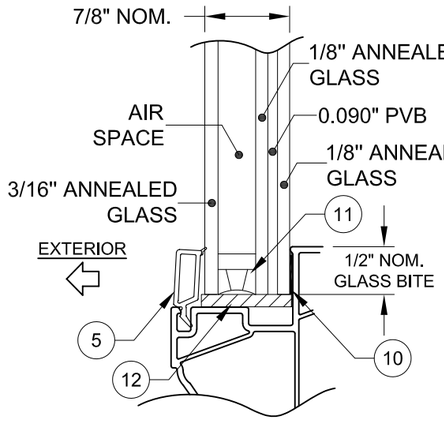
Window Design Pressure (+/- psf)											
Glass Type 4: 7/8" LIG (1/8" T - airspace - 5/16" A/A .090 SG)											
		Long Side (in)									
		64	66	68	70	72	74	76	78	80	82	84
Short Side (in)	44	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	46	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	
	48	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0		
	50	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0			
	52	60.0	60.0	60.0	60.0	60.0	60.0					
	54	60.0	60.0	60.0	60.0	60.0						
	56	60.0	60.0	60.0								
	58	60.0	60.0									
	60	60.0										



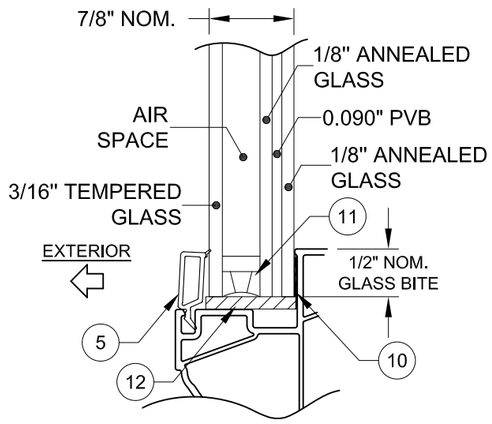
GLASS TYPE 4

TABLE E:

Window Design Pressure (+/- psf)							
Glass Type 5: 7/8" LIG (3/16" A - airspace - 5/16" A/A .090 PVB)							
Glass Type 6: 7/8" LIG (3/16" T - airspace - 5/16" A/A .090 PVB)							
		Long Side (in)					
		62	64	66	68	70	72
Short Side (in)	26	70.0	70.0	70.0	70.0	70.0	70.0
	28	70.0	70.0	70.0	70.0	70.0	70.0
	30	70.0	70.0	70.0	70.0	70.0	70.0
	32	70.0	70.0	70.0	70.0	70.0	70.0
	34	70.0	70.0	70.0	70.0	70.0	70.0
	36	70.0	70.0	70.0	70.0	70.0	70.0



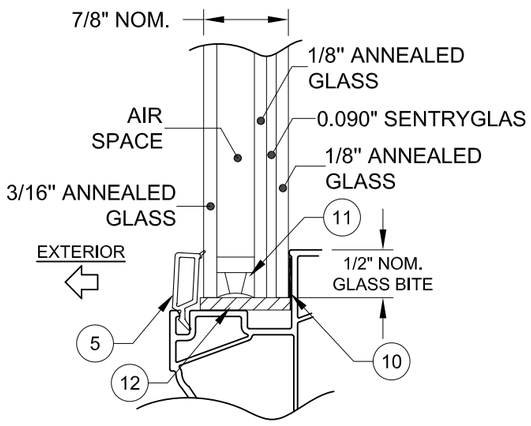
GLASS TYPE 5



GLASS TYPE 6

TABLE F:

Window Design Pressure (+/- psf)											
Glass Type 7: 7/8" LIG (3/16" A - airspace - 5/16" A/A .090 SG)											
		Long Side (in)									
		64	66	68	70	72	74	76	78	80	82	84
Short Side (in)	44	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	46	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	48	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	50	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	52	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	54	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	56	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	58	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	60	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	



GLASS TYPE 7

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

STATE OF TEXAS ANTHONY LYNN MILLER 106954 LICENSED PROFESSIONAL ENGINEER
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01/05/22

FIRM REG. NO.: F-23136

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FIXED WINDOW FPA, LM

DP TABLES & GLASS TYPES

NEWSOUTH WINDOW SOLUTIONS
10741 CROSSROADS COMMERCE BLVD.
TAMPA, FL 33610

BY:					
REVISION:					
DATE:					
#:					

DATE: 12/12/21

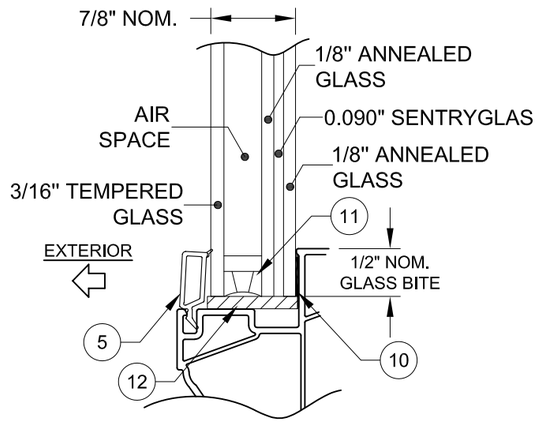
SCALE: NTS

BY: JENS ROSOWSKI

DRAWING # : PW9650-TDI-01

TABLE G:

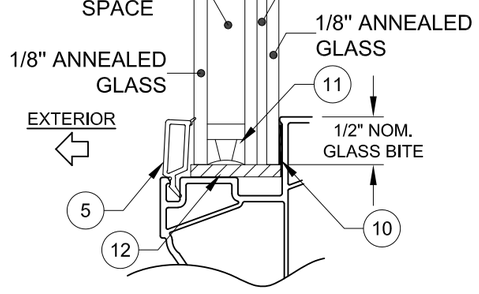
Window Design Pressure (+/- psf)									
Glass Type 8: 7/8" LIG (3/16" T - airspace - 5/16" A/A .090 SG)									
		Long Side (in)							
		68	70	72	74	76	78	80	82	84
Short Side (in)	50	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	52	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	54	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	56	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	58	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
	60	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0



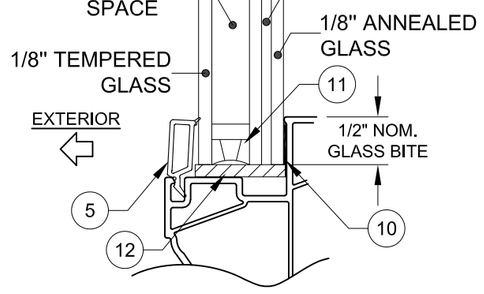
GLASS TYPE 8

TABLE H:

Window Design Pressure (+/- psf) - Flange and E.L. Frames Only							
Glass Type 9: 7/8" LIG (1/8" A - airspace - 5/16" A/A .105 PVB)							
Glass Type 10: 7/8" LIG (1/8" T - airspace - 5/16" A/A .105 PVB)							
	Long Side (in)						
	38	40	41.5	42	44	46	48
Short Side (in) 26	85.0	85.0	85.0	85.0	85.0	85.0	85.0
28	85.0	85.0	85.0	85.0	85.0	85.0	85.0
30	85.0	85.0	85.0	85.0	85.0	85.0	85.0
32	85.0	85.0	85.0	85.0	85.0	85.0	85.0
34	85.0	85.0	85.0	85.0	85.0	85.0	85.0
36	85.0	85.0	85.0	85.0	85.0	85.0	85.0



GLASS TYPE 9



GLASS TYPE 10

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

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A. Lynn Miller 01/05/22

A. LYNN MILLER, P.E., P.E.# 106954

FIRM REG. NO.: F-23136

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FIXED WINDOW FPA, LM

DP TABLES & GLASS TYPES

NEWSOUTH WINDOW SOLUTIONS
10741 CROSSROADS COMMERCE BLVD.
TAMPA, FL 33610

BY:					
REVISION:					
DATE:					
#:					

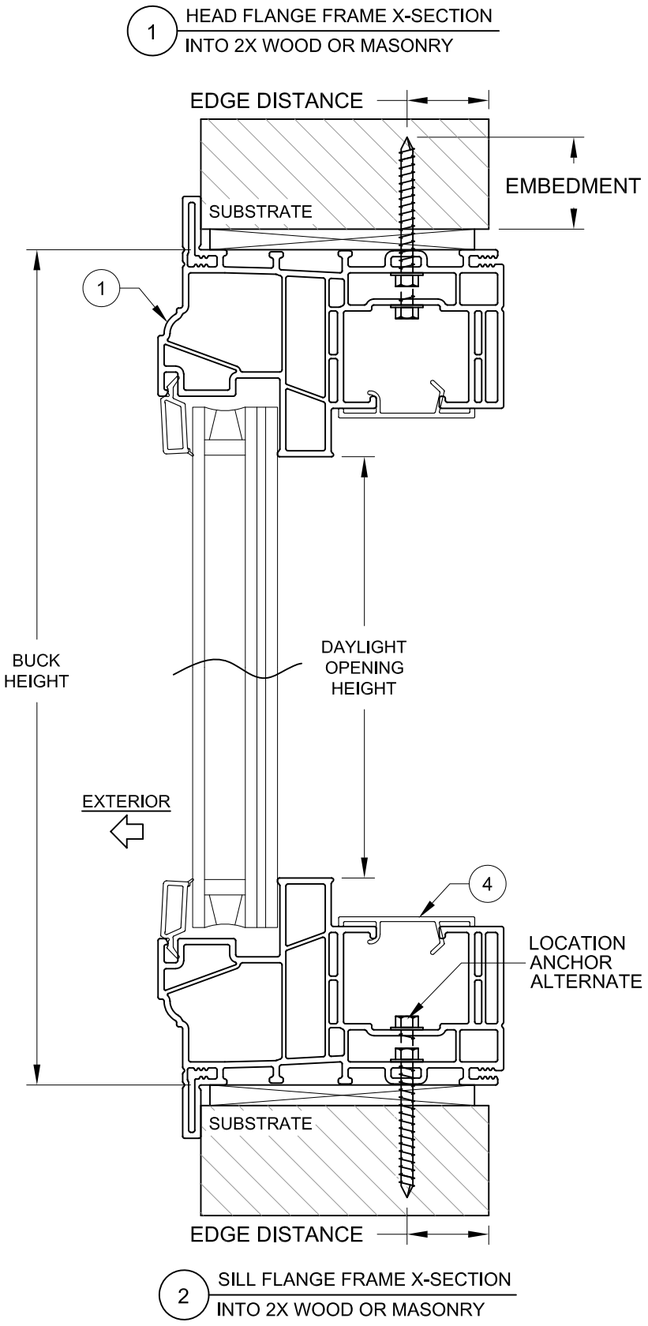
DATE: 12/12/21

SCALE: NTS

BY: JENS ROSOWSKI

DRAWING # : PW9650-TDI-01

SHEET: 4 OF 8



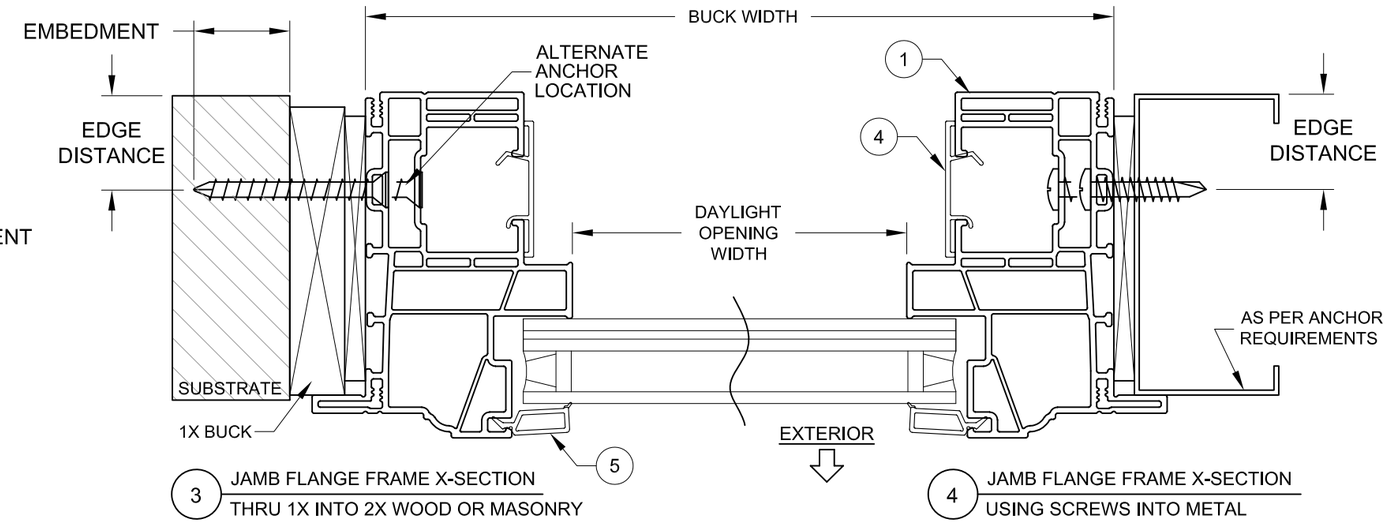


TABLE 2: INSTALLATION ANCHORS

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"	1-3/8"
	Grouted CMU, (ASTM C-90)	2-1/2"	2-1/4"
	Southern Pine (SG = .55)	1"	1-3/8"
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 or 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) CONCRETE ANCHOR LOCATIONS AT THE CORNERS MAY BE LOWERED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTOR JOINTS. SEE SHEET 1 FOR ANCHOR SPACING REQUIREMENTS.

2) CONCRETE ANCHOR LOCATIONS NOTED AS "MAX. ON CENTER" MUST BE ADJUSTED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTOR JOINTS. ADDITIONAL CONCRETE ANCHORS MAY BE REQUIRED TO ENSURE THE "MAX. ON CENTER" DIMENSION IS NOT EXCEEDED.

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

4) 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.

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FIRM REG. NO.: F-23136

FIXED WINDOW FPA, LM

FLANGE INSTALLATION SECTION VIEWS

NEWSOUTH WINDOW SOLUTIONS
10741 CROSSROADS COMMERCE BLVD.
TAMPA, FL 33610

BY:	REVISION:	DATE:	#:

DATE: 12/12/21

SCALE: NTS

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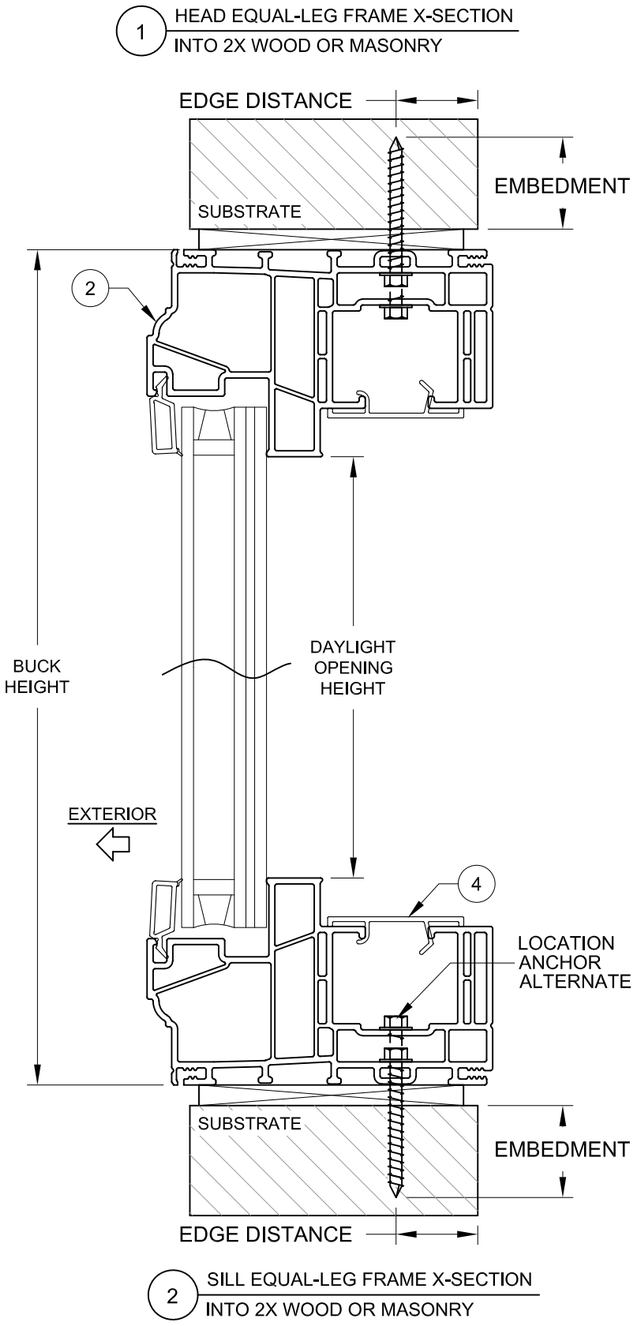

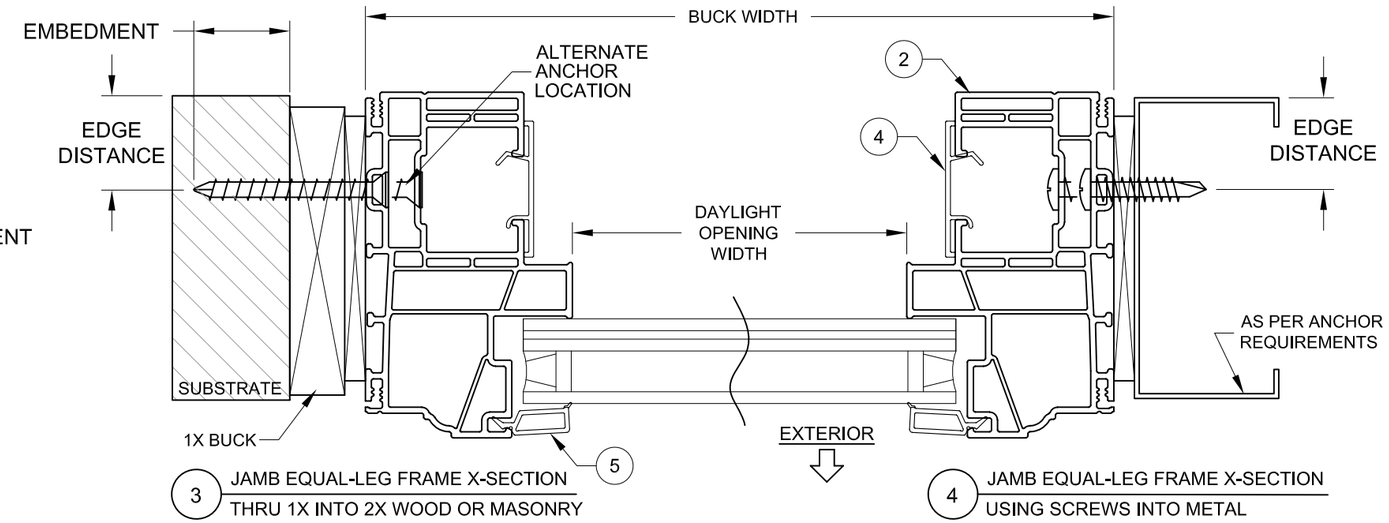

TABLE 3: INSTALLATION ANCHORS

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"	1-3/8"
	Grouted CMU, (ASTM C-90)	2-1/2"	2-1/4"
	Southern Pine (SG = .55)	1"	1-3/8"
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 or 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) CONCRETE ANCHOR LOCATIONS AT THE CORNERS MAY BE LOWERED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTOR JOINTS. SEE SHEET 1 FOR ANCHOR SPACING REQUIREMENTS.

2) CONCRETE ANCHOR LOCATIONS NOTED AS "MAX. ON CENTER" MUST BE ADJUSTED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTOR JOINTS. ADDITIONAL CONCRETE ANCHORS MAY BE REQUIRED TO ENSURE THE "MAX. ON CENTER" DIMENSION IS NOT EXCEEDED.

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

4) 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.

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STATE OF TEXAS · ENGINEER · ANTHONY LYNN MILLER · 106954 · LICENSED PROFESSIONAL ENGINEER

A. Lynn Miller 01/05/22

A. LYNN MILLER, P.E., P.E.# 106954

FIRM REG. NO.: F-23136

FIXED WINDOW FPA, LM

EQUAL-LEG INSTALLATION
SECTION VIEWS

NEWSOUTH WINDOW SOLUTIONS
10741 CROSSROADS COMMERCE BLVD.
TAMPA, FL 33610

BY:	REVISION:	DATE:	#:

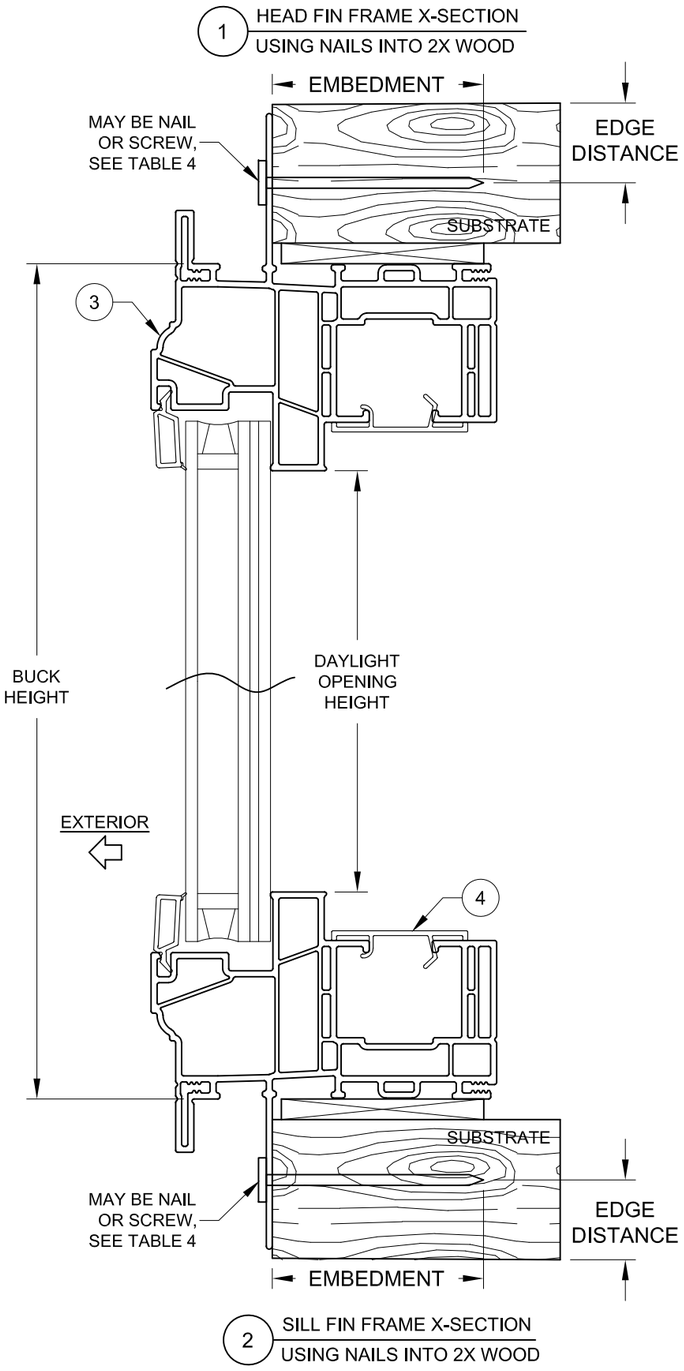
DATE: 12/12/21

SCALE: NTS

BY: JENS ROSOWSKI

DRAWING # : PW9650-TDI-01

SHEET: 6 OF 8



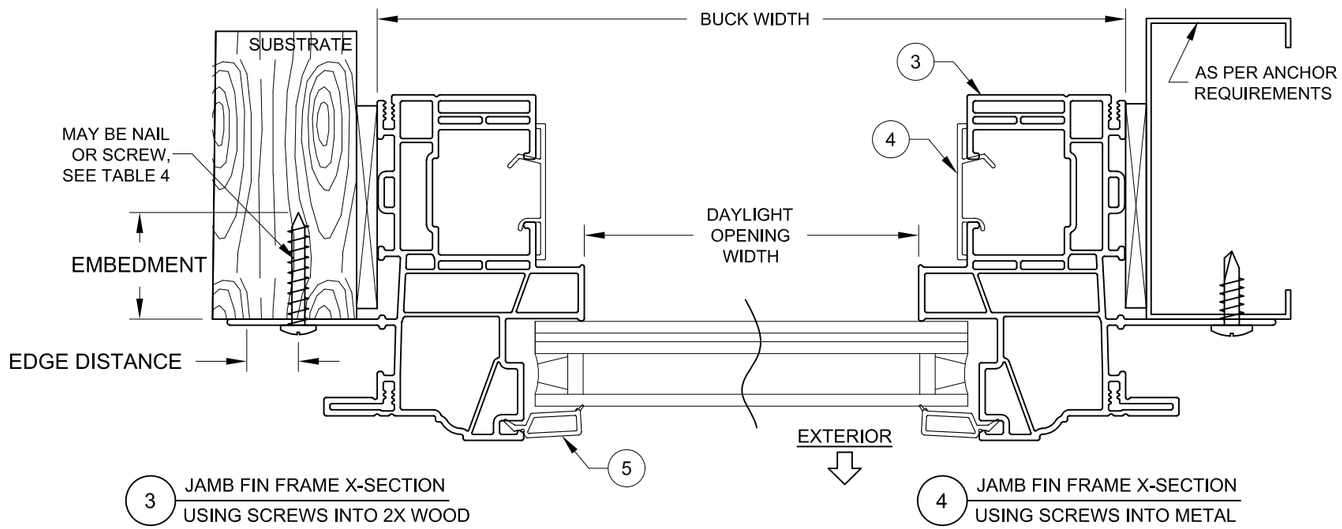


TABLE 4: INSTALLATION ANCHORS

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) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.

3) FLANGE MAY BE REMOVED.

4) 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.

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

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FIN INSTALLATION SECTION VIEWS

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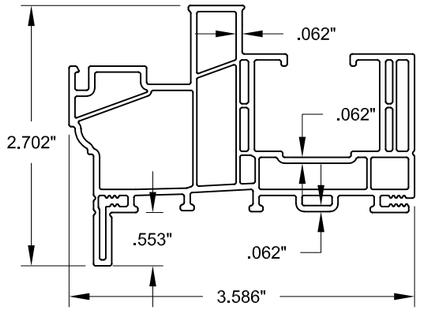
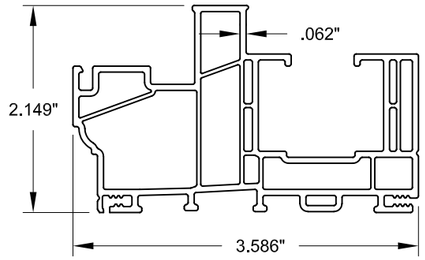
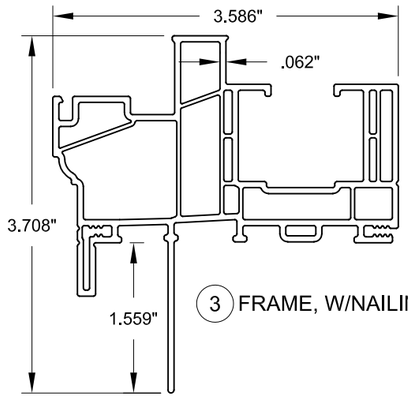


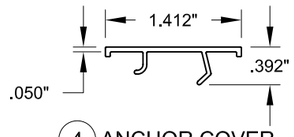
1 FRAME, W/FLANGE



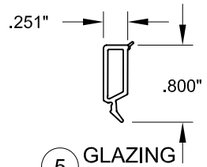
2 FRAME, EQUAL LEG



3 FRAME, W/NAILING FIN



4 ANCHOR COVER

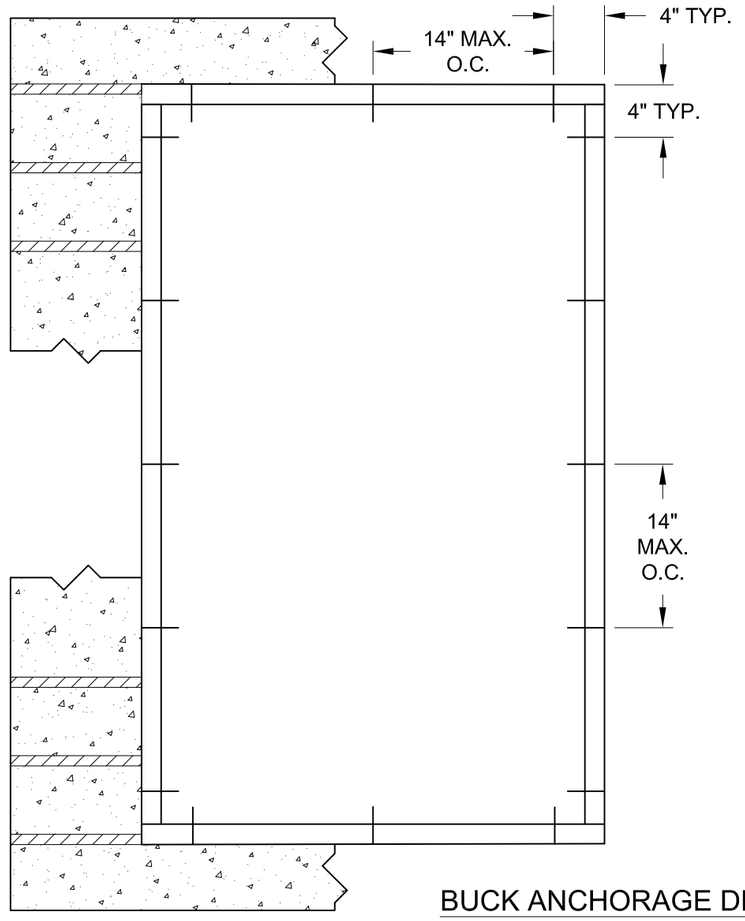


5 GLAZING BEAD

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	RGS 7700, Pecora 895, SikaFlex 552, Dow 791, 983 or 995		
11		Metal-Reinforced Butyl Spacer	Composite
12	7061	Setting Block, 1/8" x 7/8" x 2"	EPDM

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



BUCK ANCHORAGE DETAIL

TABLE 6:

Anchor	Substrate	Minimum Edge Distance	Minimum Embedment
1/4" Steel Ultracon or Ultracon+	Concrete (min. 3.0 ksi)	1"	1-3/8"
	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"

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

2) ALL ANCHOR HEAD TYPES ARE APPLICABLE.

3) MASONRYANCHOR LOCATIONS AT THE CORNERS MAY BE ADJUSTED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTOR JOINTS.

4) MASONRY ANCHOR LOCATIONS NOTED AS "MAX. ON CENTER" MUST BE ADJUSTED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTOR JOINTS, ADDITIONAL MASONRY ANCHORS MAY BE REQUIRED TO ENSURE THE "MAX. ON CENTER" DIMENSION IS NOT EXCEEDED.

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BMATERIALS/EXTRUSIONS/BOM
BUCK INSTALLATION DETAILS

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