



MODEL 1865 FIXED PICTURE WINDOW,  
LARGE & SMALL MISSILE IMPACT RESISTANT,  
EQUAL-LEG, INTEGRAL FIN AND FIN/FLANGE FRAMES

DP RATING SEE TABLES A-D	LARGE & SMALL MISSILE IMPACT RESISTANT
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A. LYNN MILLER, P.E., P.E.# 106954

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

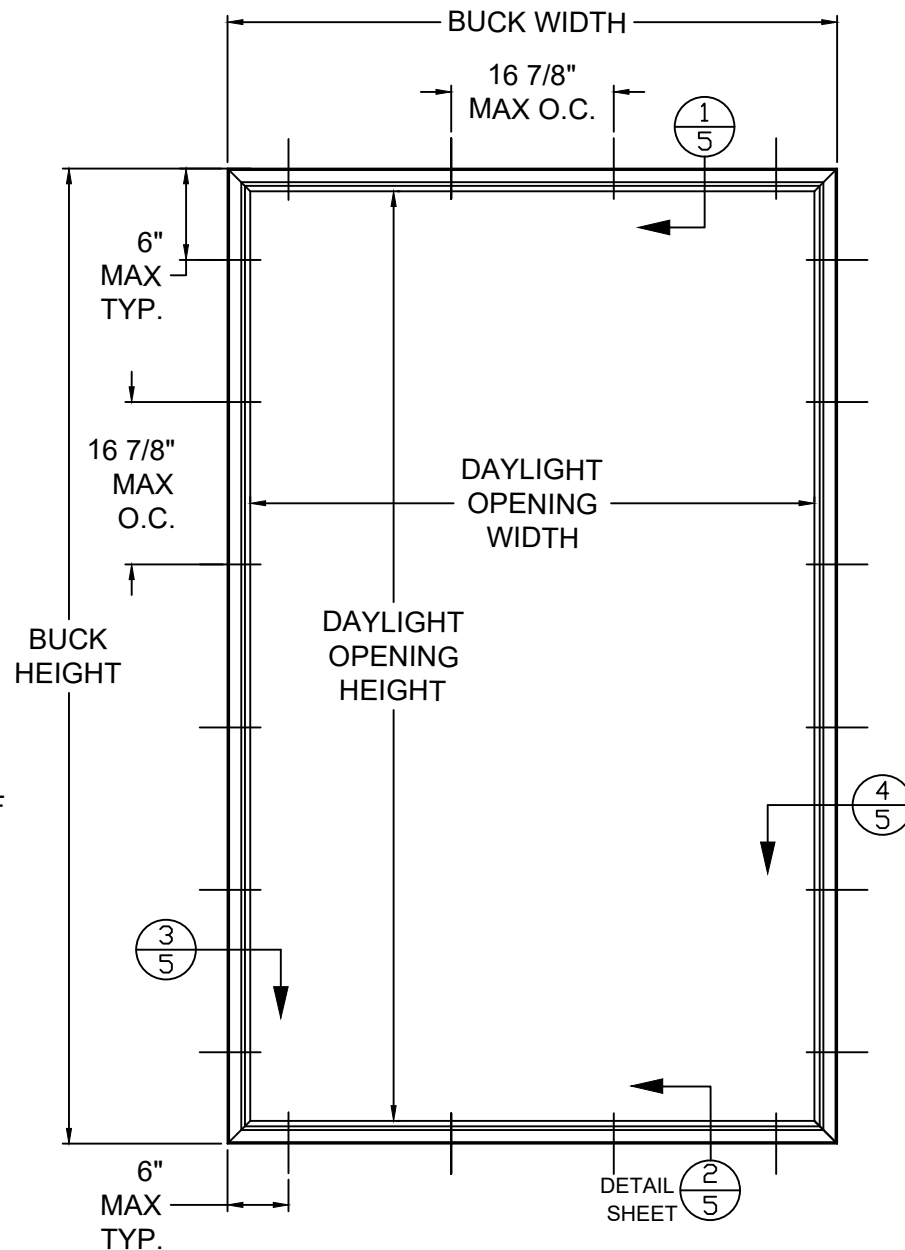
2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

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.

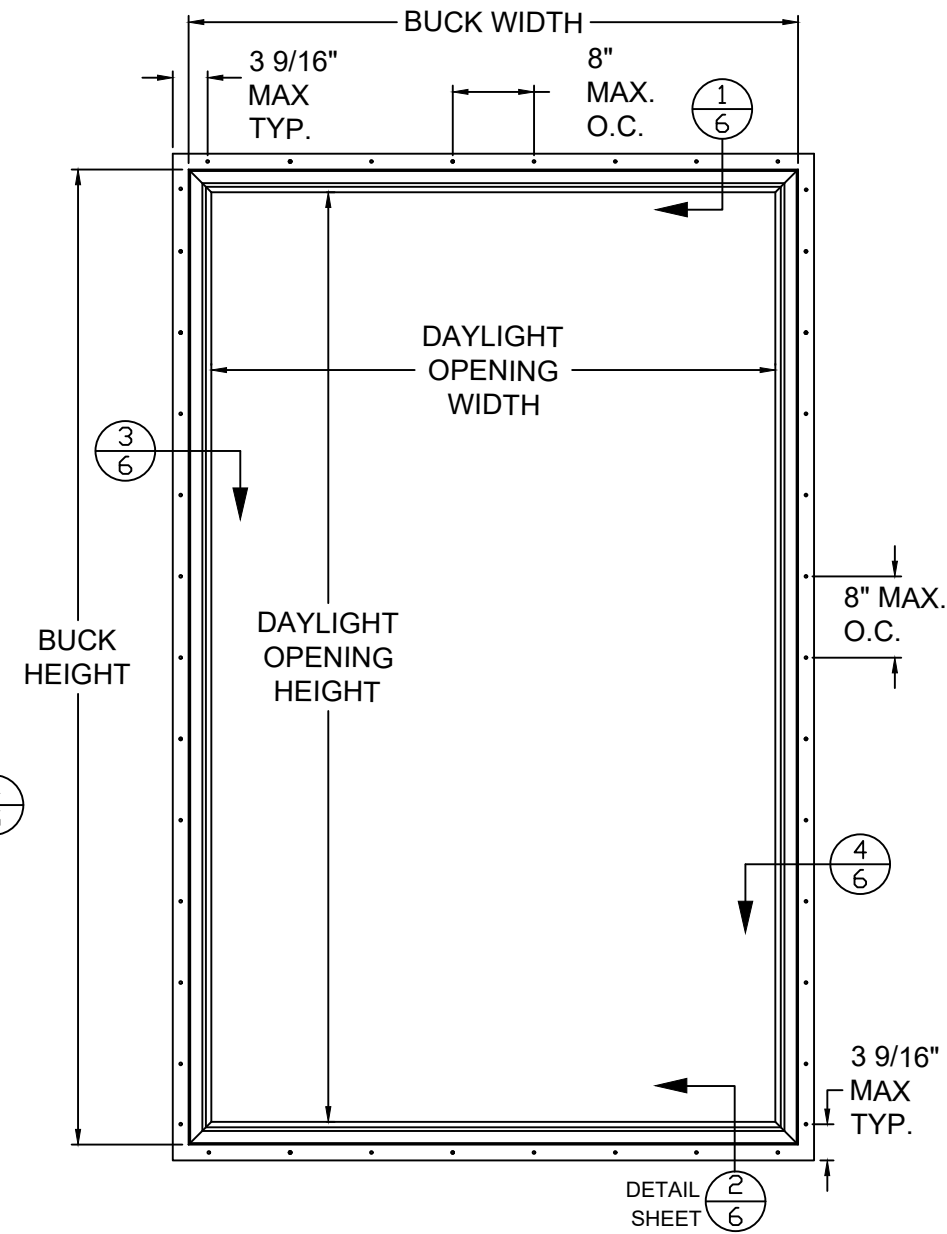
4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH.

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 INTERNATIONAL BUILDING CODE FOR CORROSION RESISTANCE.



TYP. ANCHOR LOCATIONS  
(EQUAL-LEG FRAME)  
SEE TABLES A-D FOR SIZES



TYP. ANCHOR LOCATIONS  
(INTEGRAL FIN AND FIN/FLANGE FRAME)  
SEE TABLES A-D FOR SIZES

TABLE 1: DESIGN PRESSURES

Buck Width	Buck Height	Design Pressure		Certification Number
		(+) psf	(-) psf	
46"	72"	50.0	50.0	NI015673.02-R1
60"	96"	50.0	50.0	NI015673.01

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

DAYLITE OPENING WIDTH = BUCK WIDTH - 4 7/16"  
DAYLITE OPENING HEIGHT = BUCK HEIGHT - 4 7/16"

REGISTRATION #F-23136  
PREPARED BY: A. LYNN MILLER, P.E.  
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1865 SERIES PICTURE WINDOW	BY:	
GENERAL NOTES & ANCHOR ELEVATION	REVISION:	
NEWSOUTH WINDOW SOLUTIONS 10741 CROSSROADS COMMERCE BLVD. TAMPA, FL 33610	DATE:	
	#:	
	DATE:	9/01/22
	SCALE:	NTS
	BY:	S. Berkowitz
	DRAWING #:	TDI-PW1865.01
	SHEET:	1 OF 7

TABLE A:

Window Design Pressure (psf)												
Glass Type 1: 1" LIG: (1/8"A - AIRSPACE - 5/16"A/A .090"PVB)												
Window Dimensions	Long Side (in.)											
	51.5	54	56	58	60	62	64	66	68	70	72	
Short Side (in.)	18	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	20	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	22	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	24	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	26	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	28	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	30	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	32	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	34	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	36	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	38	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50		
	40	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50			
	42	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50					
	44	+/-50	+/-50	+/-50	+/-50							
46	+/-50	+/-50	+/-50									

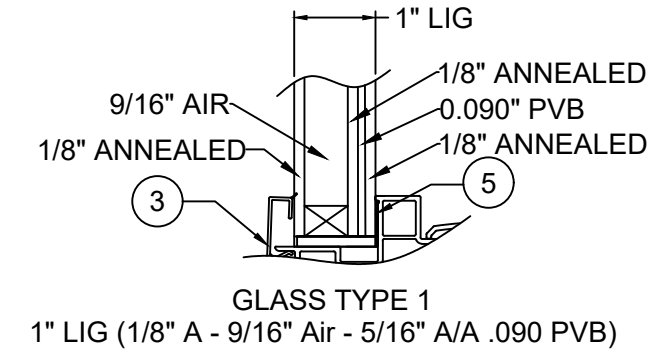
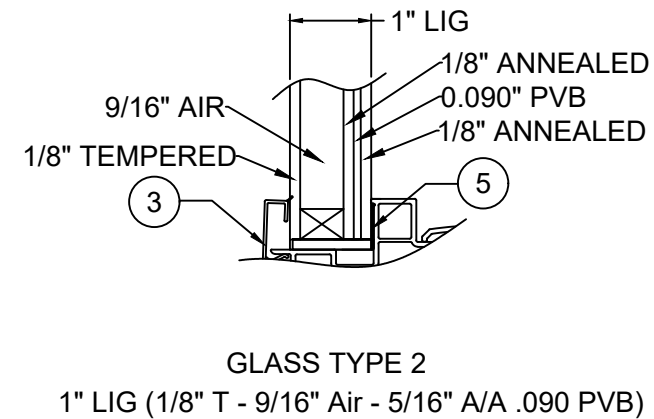


TABLE B:

Window Design Pressure (psf)								
Glass Type 2: 1" LIG: (1/8"T - AIRSPACE - 5/16"A/A .090"PVB)								
Window Dimensions	Long Side (in.)							
	57.5	62	64	66	68	70	72	
Short Side (in.)	20	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	22	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	24	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
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	42	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	44	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	46	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50



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1865 SERIES PICTURE WINDOW  
DP AND GLASS TYPES  
NEWSOUTH WINDOW SOLUTIONS  
10741 CROSSROADS COMMERCE BLVD.  
TAMPA, FL 33610

BY: \_\_\_\_\_

REVISION: \_\_\_\_\_

DATE: \_\_\_\_\_

#: \_\_\_\_\_

DATE: 9/01/22

SCALE: NTS

BY: S. Berkowitz

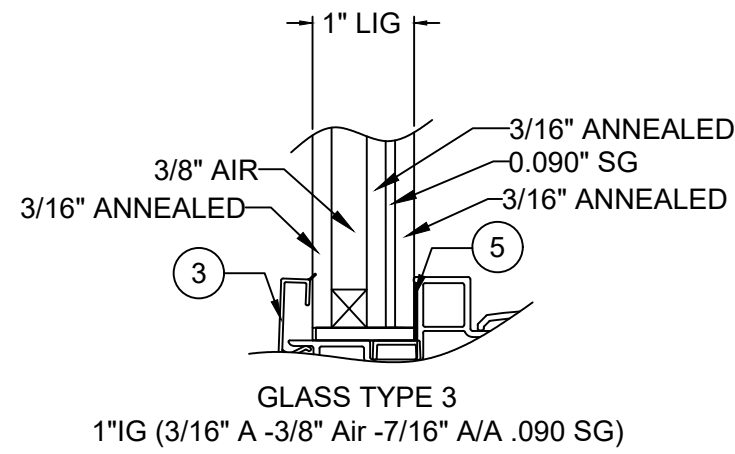
DRAWING #: TDI-PW1865.01

SHEET: 2 OF 7

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

TABLE C:

Window Design Pressure (psf)															
Glass Type 3: 1" LIG: (3/16"A - AIRSPACE - 7/16"A/A .090" SG)															
Window Dimensions		Long Side (in.)													
		70	72	74	76	78	80	82	84	86	88	90	92	94	96
Short Side (in.)	44	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	46	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	48	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
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	54	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50			
	56	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50				
	58	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50						
	60	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50							



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



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1865 SERIES PICTURE WINDOW

DP AND GLASS TYPES

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

BY:

REVISION:

DATE:

#:

DATE: 9/01/22

SCALE: NTS

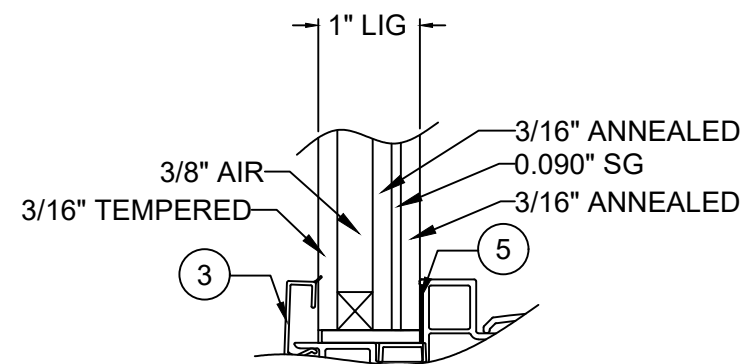
BY: S. Berkowitz

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TDI-PW1865.01

SHEET: 3 OF 7

TABLE D:

Window Design Pressure (psf)												
Glass Type 4: 1" LIG: (3/16" T - AIRSPACE - 7/16" A/A .090" SG)												
Window Dimensions	Long Side (in.)											
	76	78	80	82	84	86	88	90	92	94	96	
Short Side (in.)	44	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	46	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	48	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
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	54	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	56	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	58	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50
	60	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50	+/-50



GLASS TYPE 4  
1"IG (3/16" T -3/8" Air -7/16" A/A .090 SG)

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



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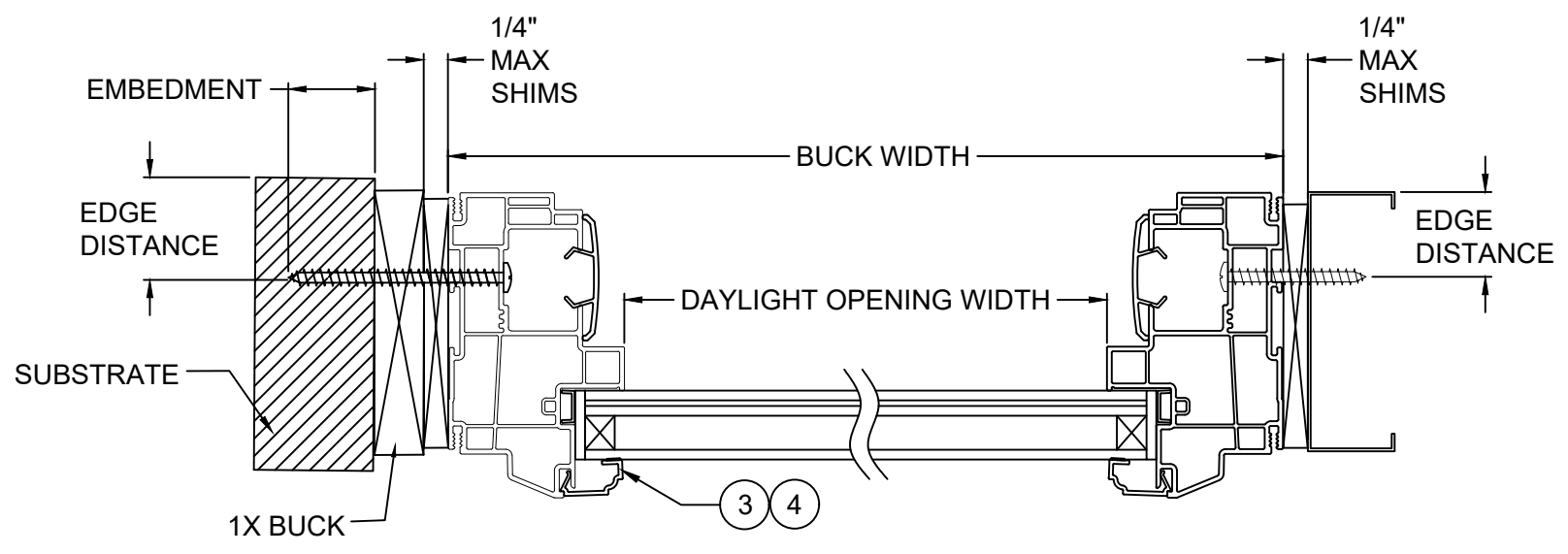
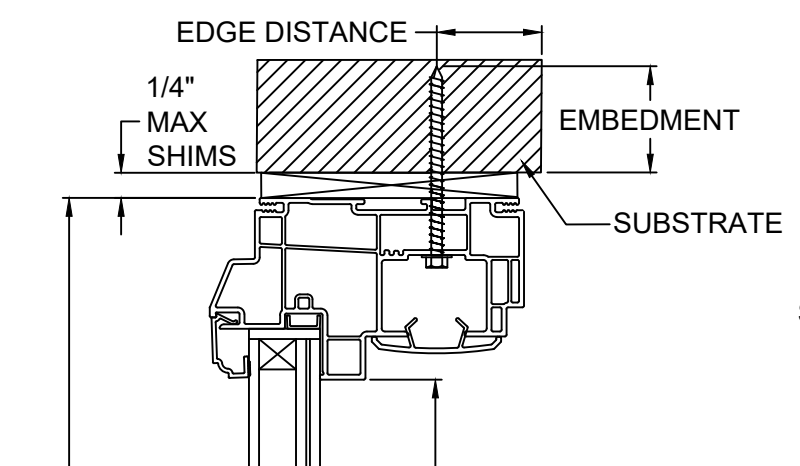
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REVISION:	DP AND GLASS TYPES
DATE:	NEWSOUTH WINDOW SOLUTIONS 10741 CROSSROADS COMMERCE BLVD. TAMPA, FL 33610
#:	
DATE:	9/01/22
SCALE:	NTS
BY:	S. Berkowitz
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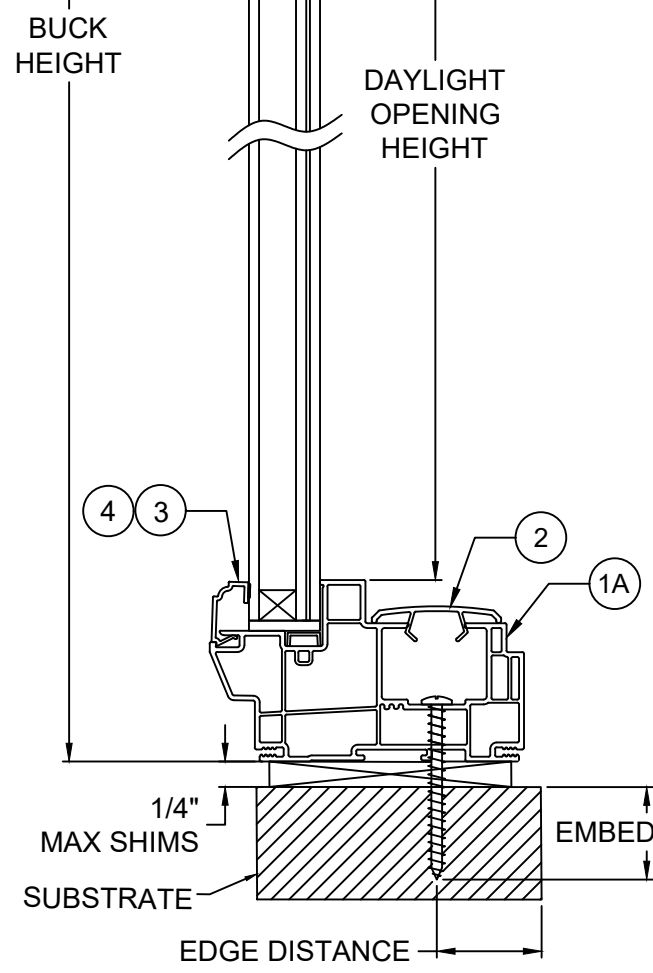
1 HEAD EQUAL-LEG FRAME X-SECTION INTO 2X WOOD OR MASONRY



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

EXTERIOR ←



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

TABLE 2: INSTALLATION ANCHORS

Anchor	Substrate	Min. Edge Distance	Min. O.C. Distance	Min. Embedment
#10 Steel SMS #10 410 SS SMS	S. Pine	1/2"	0.756	1-3/8"
	6063-T5	5/16"	0.473	0.045 (18 ga)
	A36 Steel	5/16"	0.567	0.035 (20 ga)
3/16" Steel Ultracon+	A653 Stud, Gr. 33	5/16"	0.567	0.035 (20 ga)
	Concrete (2.9 ksi)	1"	3.375	1-3/4"
	UngROUTED CMU, (ASTM C-90)	1"	3	1-1/4"
1/4" Steel Ultracon+	Southern Pine (SG = .55)	1/2"	0.75	1-3/8"
	Concrete (2.9 ksi)	1"	4	1-3/8"
	UngROUTED CMU, (ASTM C-90)	1"	3	1-1/4"
	Southern Pine (SG = .55)	1"	1	1-3/8"

- 1) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
- 2) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUDED 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 OR WOOD FRAMING, 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 2. 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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BY:	1865 SERIES PICTURE WINDOW
REVISION:	EQUAL LEG INSTALLATION SECTION VIEWS
DATE:	NEWSOUTH WINDOW SOLUTIONS 10741 CROSSROADS COMMERCE BLVD. TAMPA, FL 33610
#:	
DATE:	9/01/22
SCALE:	NTS
BY:	S. Berkowitz
DRAWING #:	TDI-PW1865.01
SHEET:	5 OF 7



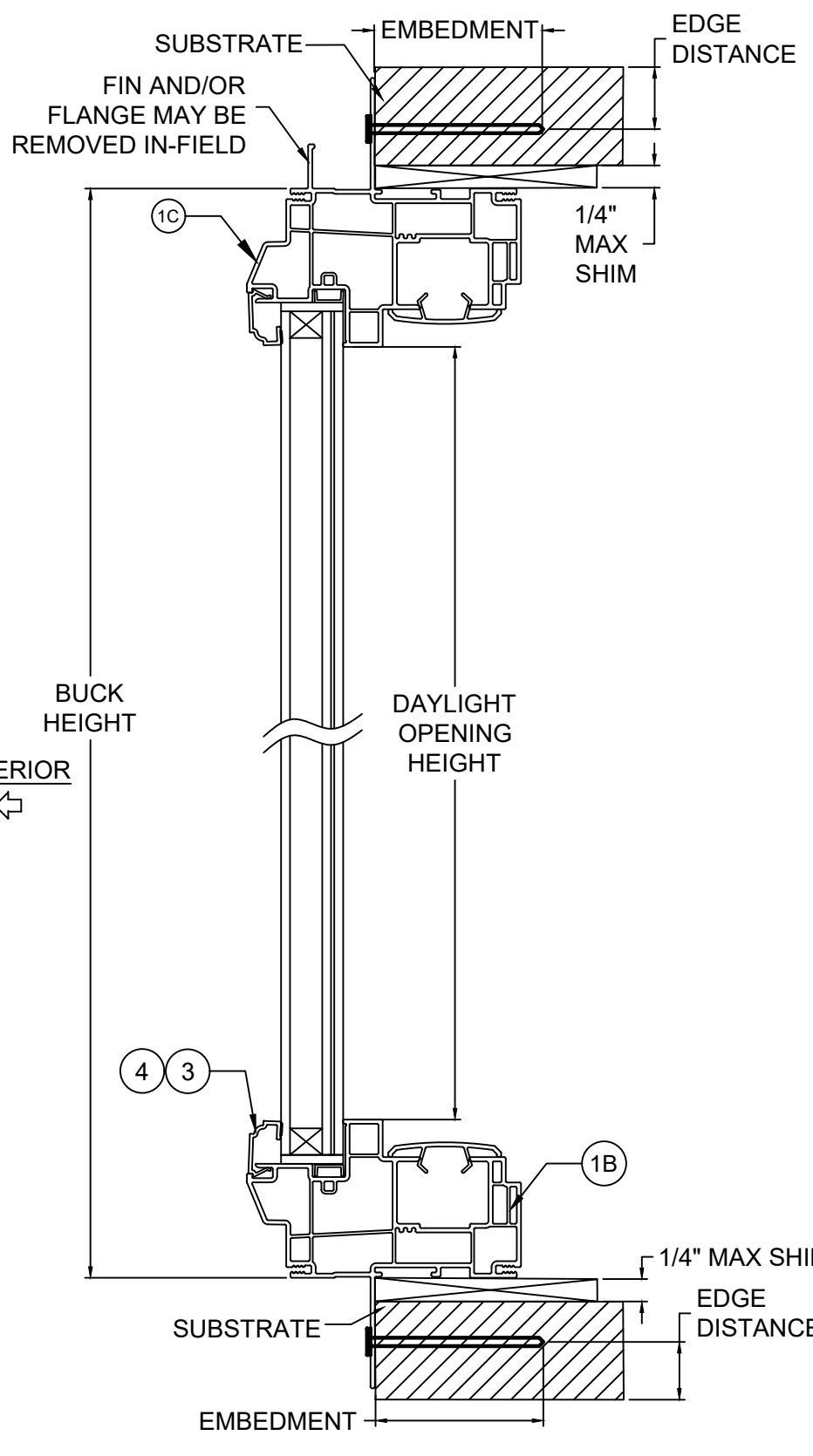
A. LYNN MILLER, P.E., P.E.# 106954

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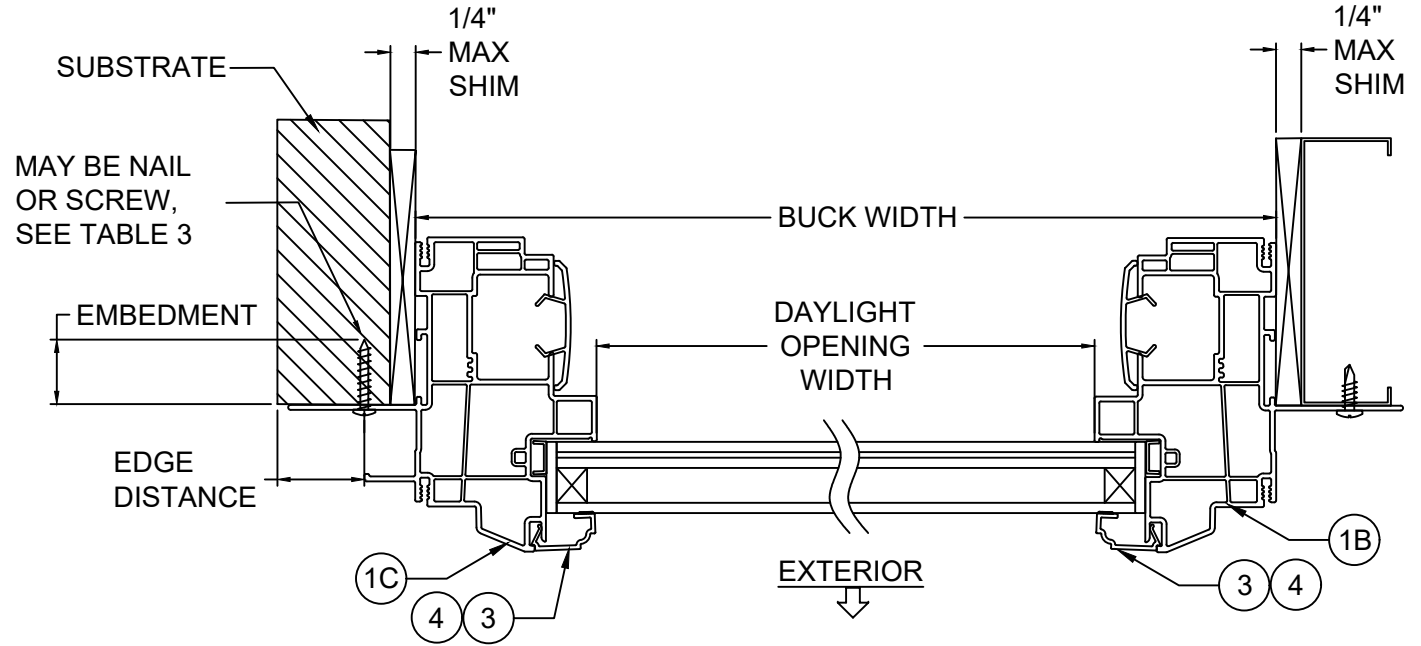
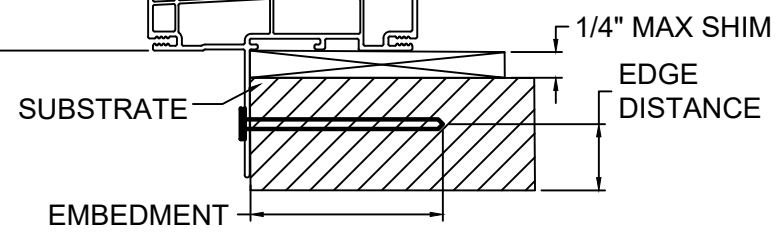
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1865 SERIES PICTURE WINDOW	BY:	
FIN OR FIN/FLANGE INSTALLATION SECTION VIEWS	REVISION:	
NEWSOUTH WINDOW SOLUTIONS 10741 CROSSROADS COMMERCE BLVD. TAMPA, FL 33610	DATE:	
	#:	
	DATE:	9/01/22
	SCALE:	NTS
	BY:	S. Berkowitz
	DRAWING #:	TDI-PW1865.01
	SHEET:	6 OF 7

1 HEAD INTEGRAL FIN OR FIN/FLANGE FRAME X-SECTION USING NAILS INTO 2X WOOD



2 SILL INTEGRAL FIN OR FIN/FLANGE FRAME X-SECTION USING NAILS INTO 2X WOOD



3 JAMB INTEGRAL FIN OR FIN/FLANGE X-SECTION THRU 1X INTO 2X WOOD OR MASONRY

4 JAMB INTEGRAL FIN OR FIN/FLANGE X-SECTION USING SCREW INTO METAL

TABLE 3: INSTALLATION ANCHORS

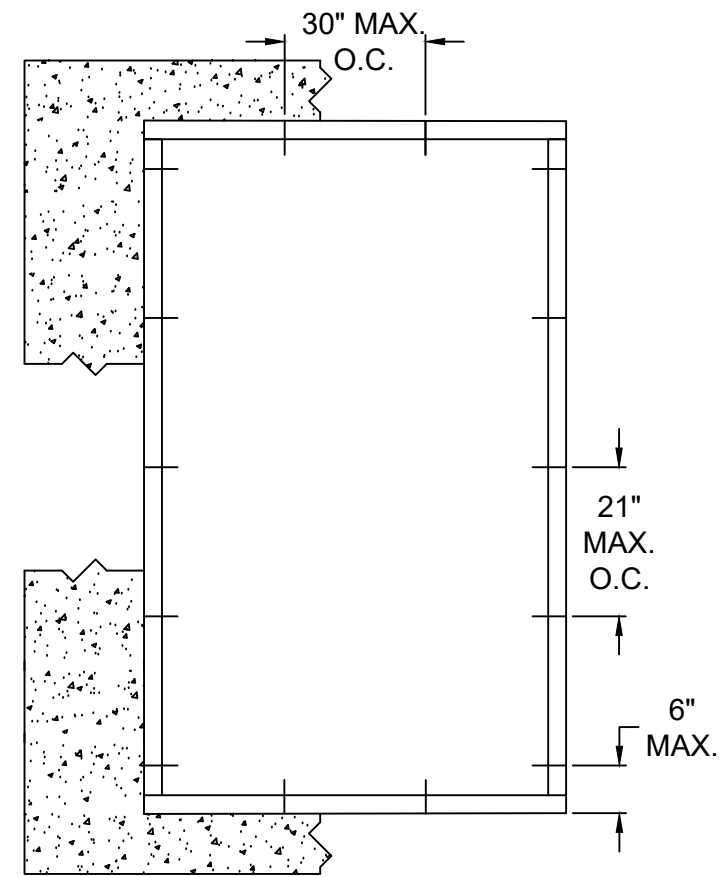
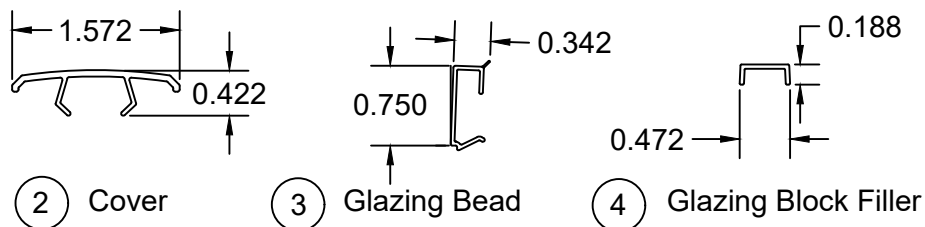
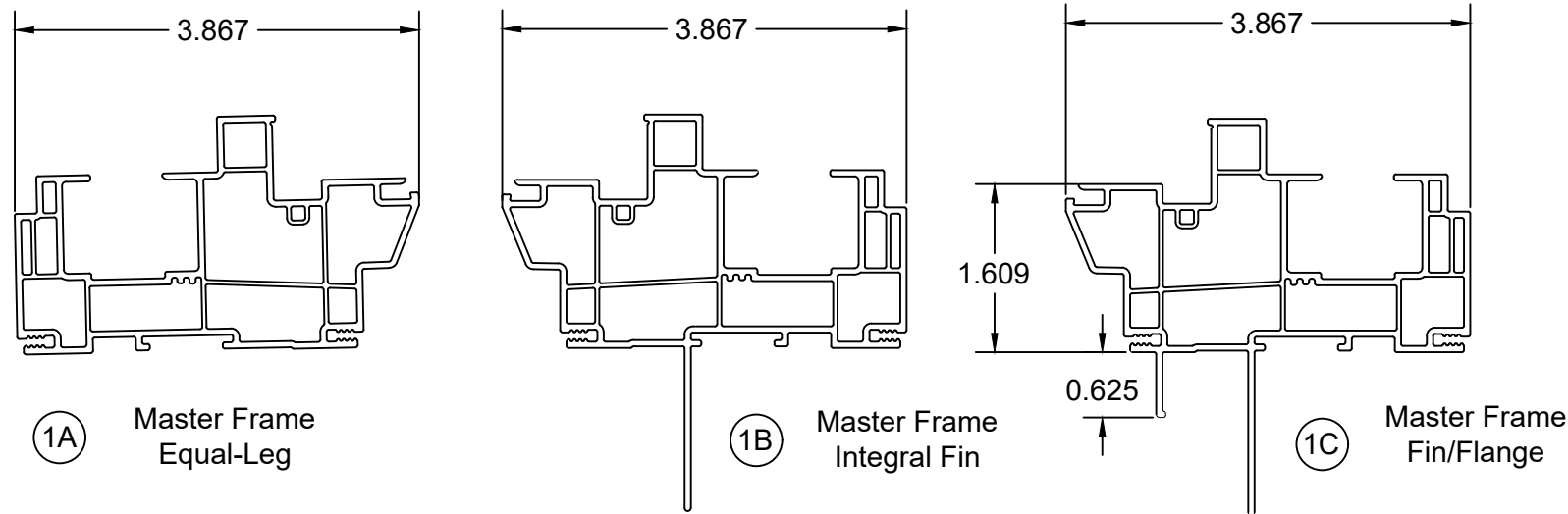
Anchor	Substrate	Min. Edge Distance	Min. O.C. Distance	Min. Embedment
2-1/2" x .113" Box Nail	P.T. Southern Pine (SG = .55)	5/16"	0.452	2-7/16"
2-1/2" x .131" Common Nail	P.T. Southern Pine (SG = .55)	5/16"	0.524	2-7/16"
2-1/2" x .145" Roofing Nail	P.T. Southern Pine (SG = .55)	3/8"	0.58	2-7/16"
#10 Steel SMS	P.T. Southern Pine (SG = .55)	1/2"	0.756	1-7/16"
	6063-T5	3/8"	0.473	0.057 (16 ga)
	A36 Steel	5/16"	0.567	0.035 (20 ga)
	Steel Stud Gr. 33	5/16"	0.567	0.035 (20 ga)

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

2) ALL ANCHOR HEAD TYPES ARE APPLICABLE.

INSTALLATION NOTES:

- SEE SHEET 1 FOR SPACING REQUIREMENTS.
- FLANGE AND/OR FIN MAY BE REMOVED TO CREATE OTHER APPROVED FRAME TYPES.
- USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN ANCHOR TABLE 3. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY OR ALL SIDES OF THE WINDOW.
- MAX. SHIM THICKNESS TO BE 1/4". MAX. SHIM SPACING TO BE MAXIMUM 18".



BUCK ANCHORAGE DETAIL

TABLE 4: BILL OF MATERIALS

Item	Description	Part #	Material
1A	Master Frame Equal Leg	1833A	Rigid PVC
1B	Master Frame Fin	1853J	Rigid PVC
1C	Master Frame Fin-Flange	1853A	Rigid PVC
2	Cover	1863	Rigid PVC
3	Glazing Bead 1" Glass	836	Rigid PVC
4	Glazing Block Filler	440	Rigid PVC
5	Glazing compound: RGS 7700, Dow 791, 983	-	

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

TABLE 5:

Anchor	Substrate	Minimum Edge Distance	Minimum Embedment
1/4" Steel 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.



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 BILL OF MATERIALS, EXTRUSIONS, &  
 BUCK INSTALLATION DETAILS  
 NEWSOUTH WINDOW SOLUTIONS  
 10741 CROSSROADS COMMERCE BLVD.  
 TAMPA, FL 33610

BY:			
REVISION:			
DATE:			
#:			
DATE:	9/01/22		
SCALE:	NTS		
BY:	S. Berkowitz		
DRAWING #:	TDI-PW1865.01		
SHEET:	7 OF 7		