



**MODEL 1840 DOUBLE HUNG WINDOW,
NON-IMPACT RESISTANT,
EQUAL-LEG, INTEGRAL FIN & FIN-FLANGE FRAMES**

DP RATING	NOT RATED FOR IMPACT RESISTANCE
± 50 PSF	



A. Lynn Miller 9/26/22

A. LYNN MILLER, P.E., TX 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).

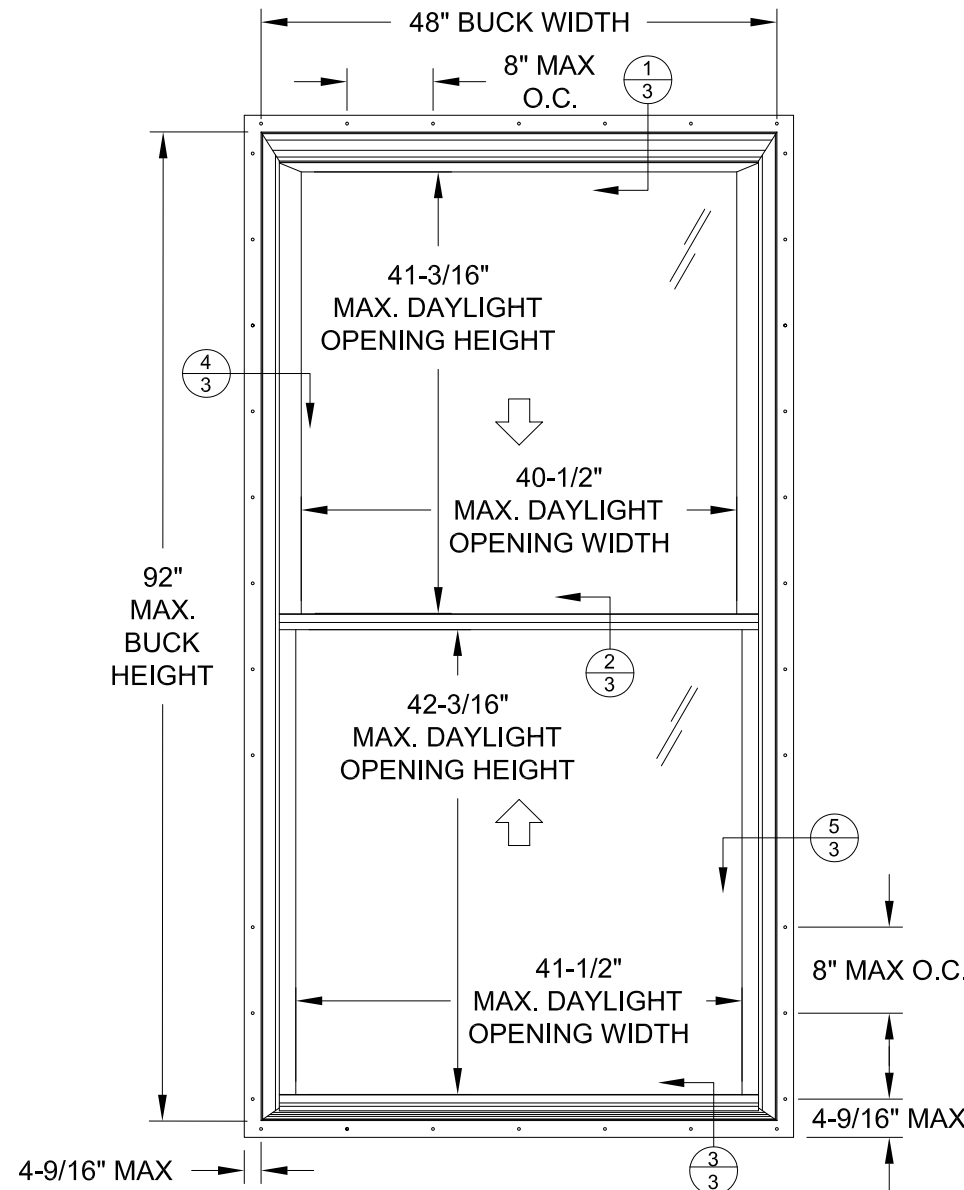
2) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

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.

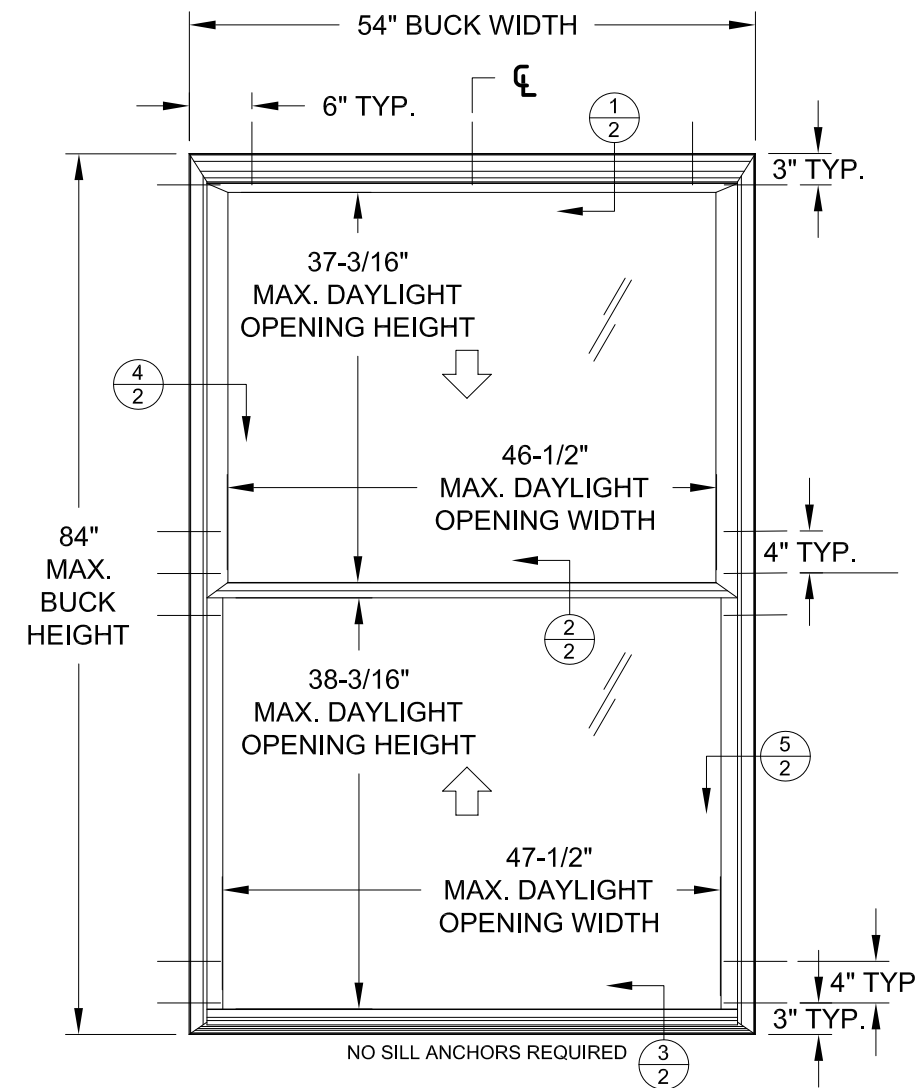
4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH.

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 @ TESTED SIZE
(FIN, FIN/FLANGE FRAME SHOWN)
(SAME ANCHORAGE APPLIES TO 54"x84" SIZE)



TYP. ANCHOR LOCATIONS @ TESTED SIZE
(EQUAL-LEG FRAME SHOWN)
(SAME ANCHORAGE APPLIES TO 48"x92" SIZE)

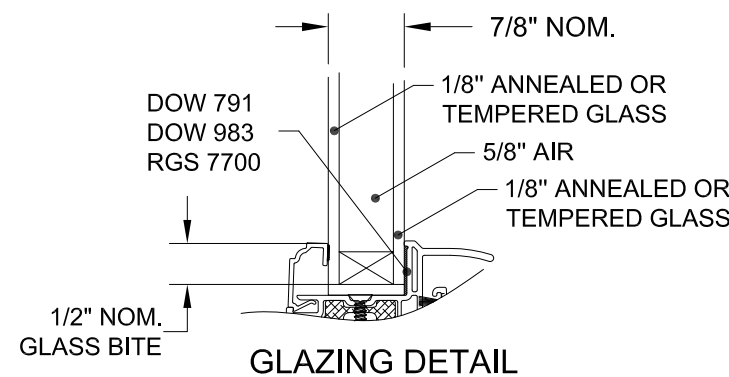
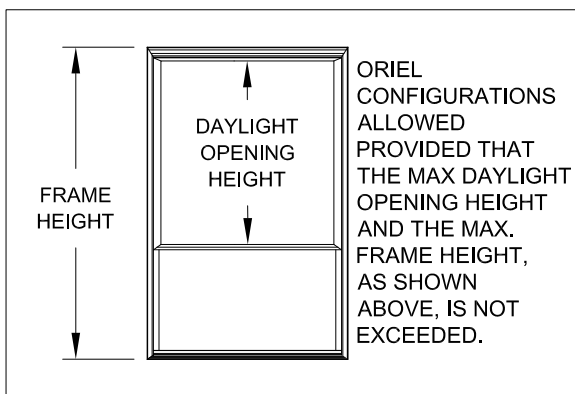


TABLE 1: DESIGN PRESSURES

Buck Width	Buck Height	Design Pressure		Certification Number
		(+) psf	(-) psf	
54"	84"	50.0	50.0	NI015680
48"	92"	50.0	50.0	NI015680.01

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

PREPARED BY: A. LYNN MILLER, P.E. REGISTRATION #F-23136
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1840 SERIES DOUBLE HUNG	BY:	REVISION:	DATE:	#:
GENERAL NOTES, DESIGN PRESSURES, GLAZING DETAILS & ANCHOR ELEVATION			9/26/2022	
NEWSOUTH WINDOW SOLUTIONS 10741 CROSSROADS COMMERCE BLVD. TAMPA, FL 33610			SCALE: NTS	
			BY: L YODER	
			DRAWING #: DH1840-TDI-01	
			SHEET: 1 OF 5	

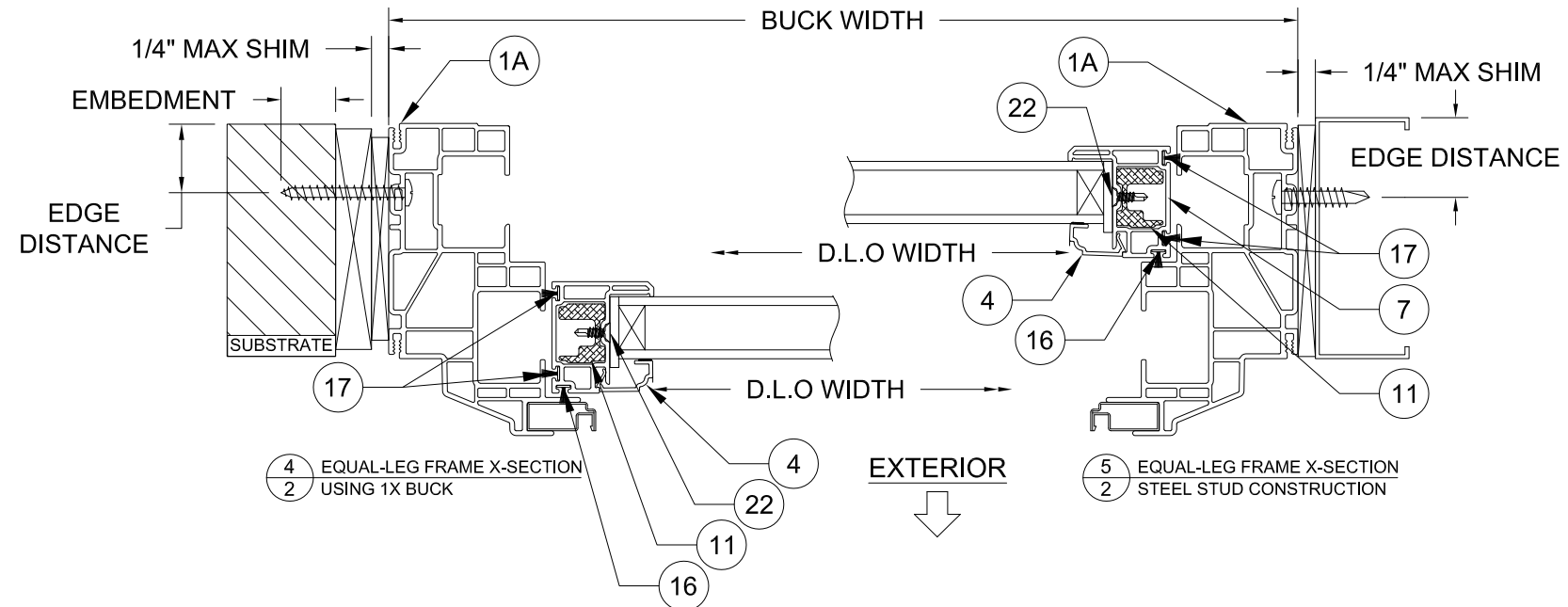
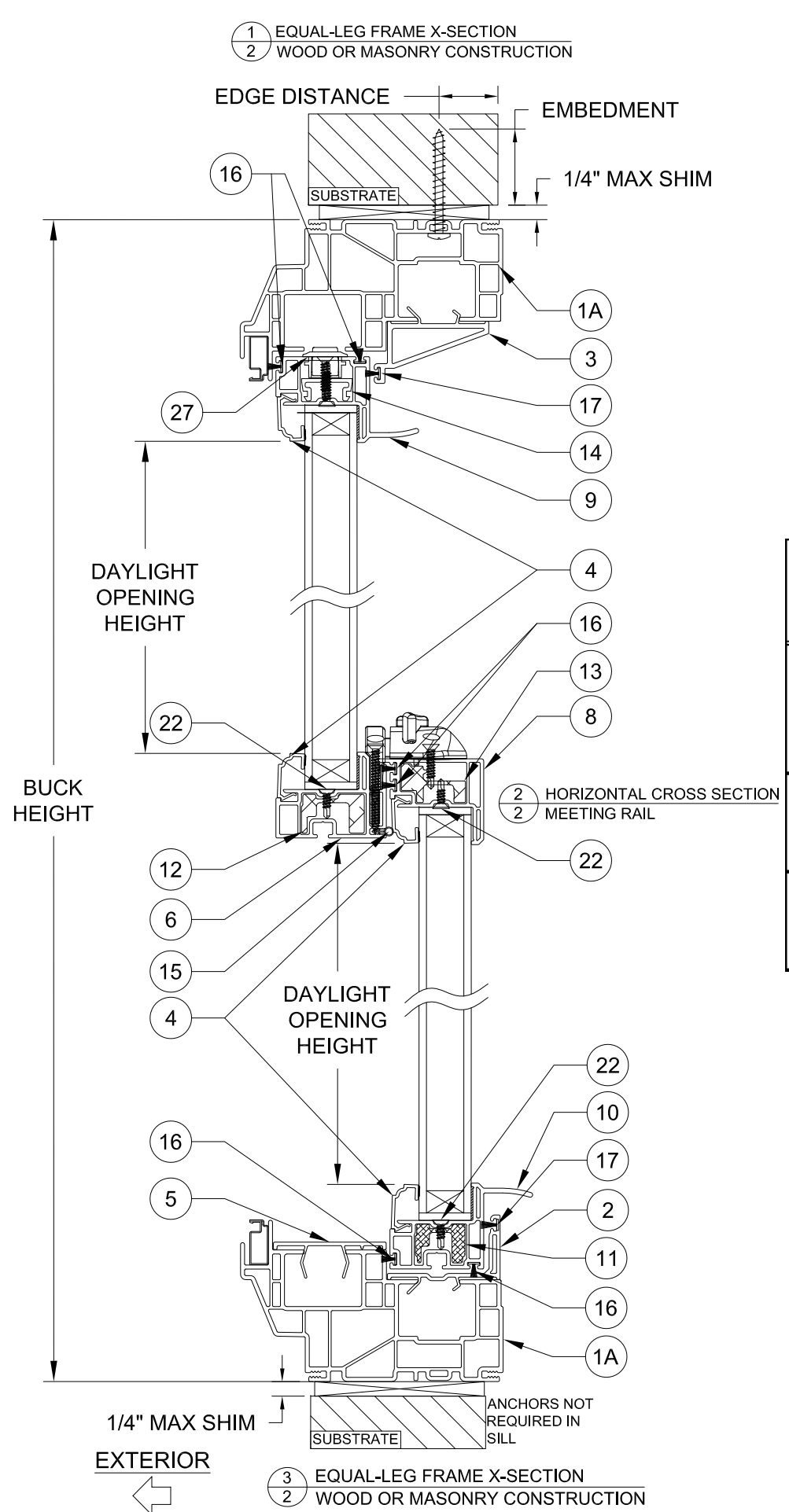


TABLE 2: INSTALLATION ANCHORS

Anchor	Substrate	Minimum Edge Distance	Minimum Embedment
#10 or #12 Steel or 410 SS Screw	Southern Pine (SG = .55)	1/2"	1-3/8"
	Aluminum, 6063-T5 min.	5/16"	0.045"
	Steel Stud, Gr. 33 min.	5/16"	0.035" (20 Ga)
	A36 Steel	5/16"	0.035"
3/16" Steel Ultracon+	Concrete (min. 2.9 ksi)	1"	1-3/4"
	UngROUTED CMU, (ASTM C-90)	1-1/4"	1-1/4"
	Southern Pine (SG = .55)	1/2"	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"

- ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE
- "UNGROUTED CMU" VALUES MAY BE USED FOR GROUDED CMU APPLICATIONS
- ALL ANCHOR HEAD TYPES ARE APPLICABLE

INSTALLATION NOTES:

- SEE SHEET 1 FOR ANCHOR SPACING REQUIREMENTS.
- 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.
- USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN ANCHOR TABLE 2. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. MAX. SHIM THICKNESS TO BE 1/4".



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1840 SERIES DOUBLE HUNG		INSTALLATION DETAILS - EQUAL-LEG FRAME	
BY:		NEWSOUTH WINDOW SOLUTIONS 10741 CROSSROADS COMMERCE BLVD. TAMPA, FL 33610	
REVISION:			
DATE:			
#:			
DATE:	9/26/2022		
SCALE:	NTS		
BY:	L YODER		
DRAWING #:	DH1840-TDI-01		
SHEET:	2 OF 5		

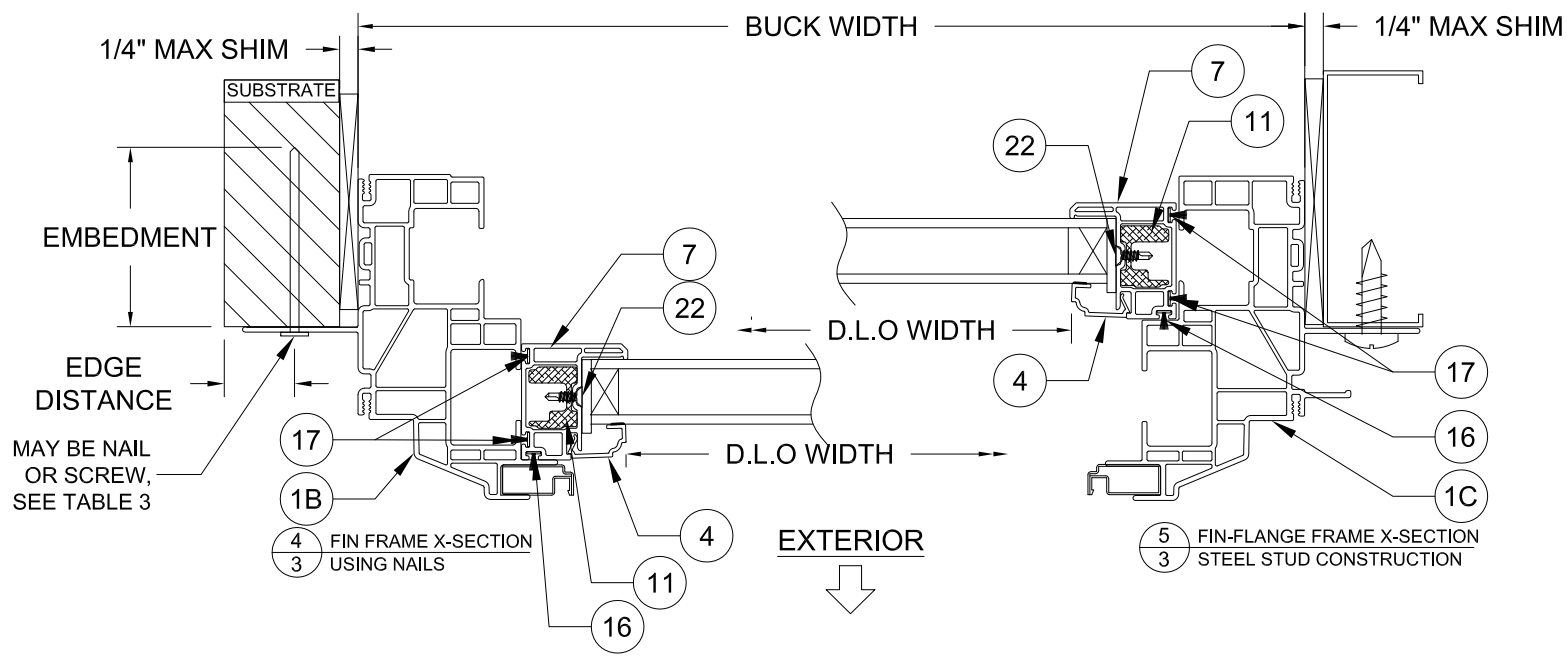
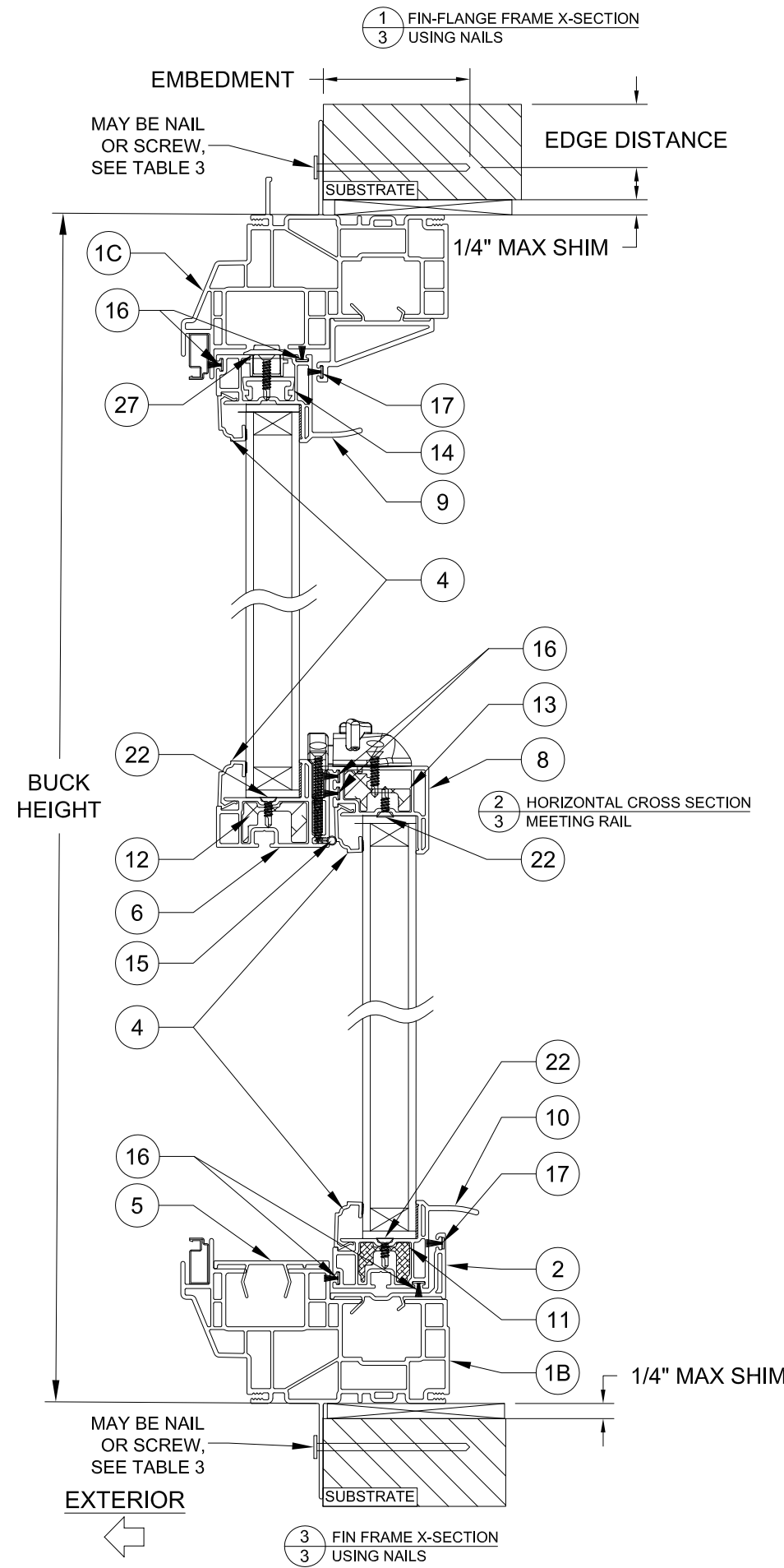


TABLE 3: INSTALLATION ANCHORS

Anchor	Substrate	Min. Edge Distance	Min. Embedment
2-1/2" x .113" Box Nail	P.T. Southern Pine (SG = .55)	5/16"	2-1/2"
2-1/2" x .131" Common Nail	P.T. Southern Pine (SG = .55)	3/8"	2-1/2"
2-1/2" x .145" Roofing Nail	P.T. Southern Pine (SG = .55)	3/8"	2-1/2"
#10 Steel SMS	P.T. Southern Pine (SG = .55)	1/2"	1-3/8"
	Aluminum, 6063-T5 min.	5/16"	0.045
	Steel Stud, Gr. 33 min.	5/16"	0.035 (20 ga)
	A36 Steel	5/16"	0.035

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

INSTALLATION NOTES:

- 1) SEE SHEET 1 FOR ANCHOR SPACING REQUIREMENTS
- 2) FLANGE AND/OR FIN MAY BE REMOVED TO CREATE OTHER FRAME TYPES.
- 3) 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.
- 4) MAX SHIM THICKNESS TO BE 1/4". MAX SHIM SPACING TO BE 18".

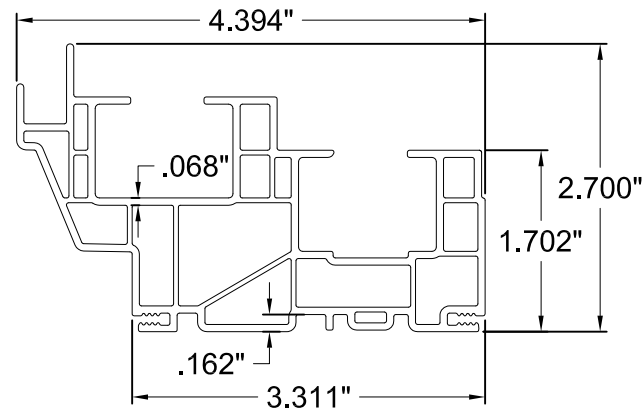


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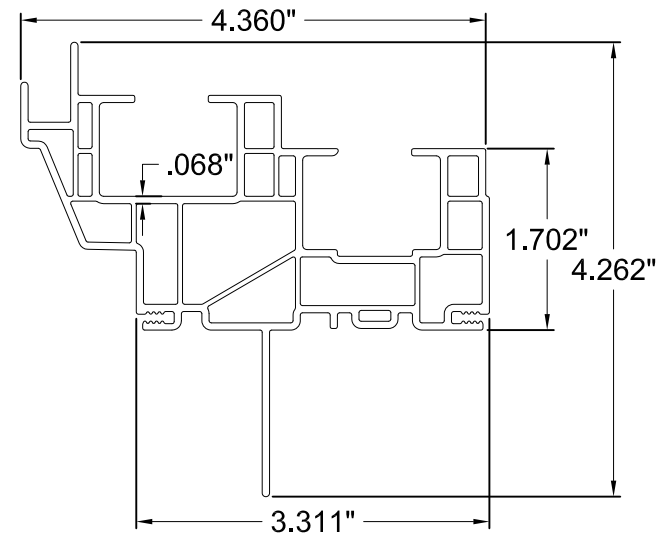
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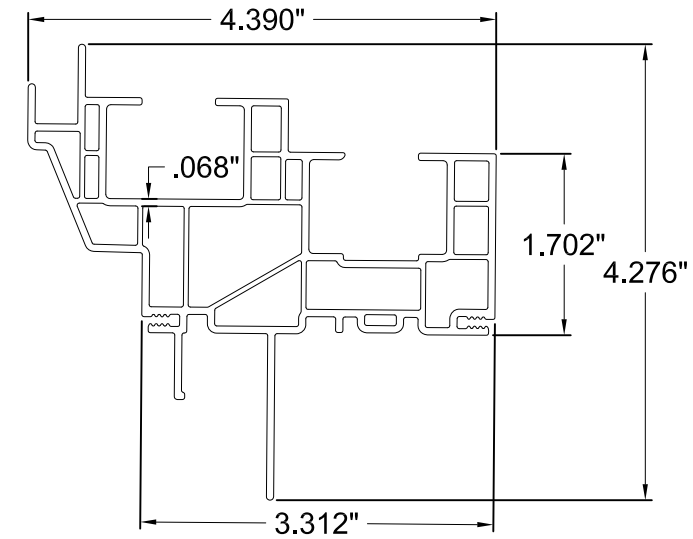
1840 SERIES DOUBLE HUNG	
INSTALLATION DETAILS - FIN & FIN-FLANGE FRAME	
NEWSOUTH WINDOW SOLUTIONS 10741 CROSSROADS COMMERCE BLVD. TAMPA, FL 33610	
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SHEET:	3 OF 5



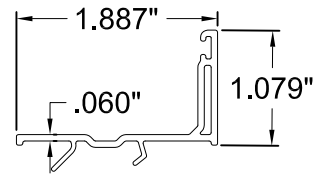
①A EQUAL-LEG FRAME



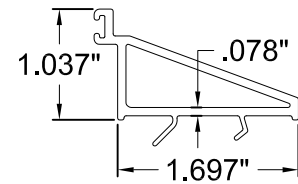
①B INTEGRAL FIN FRAME



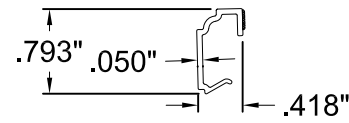
①C FIN/FLANGE FRAME



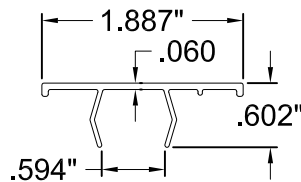
② SILL ADAPTER



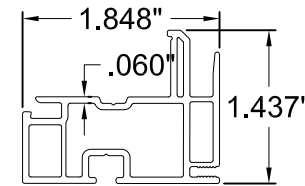
③ HEAD ADAPTER



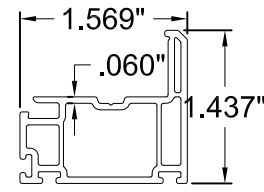
④ GLAZING BEAD (7/8" GLASS)



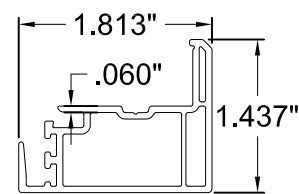
⑤ SASH ADAPTER



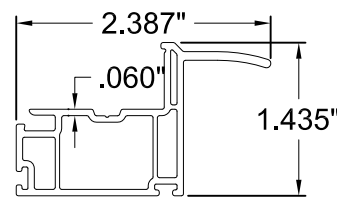
⑥ KEEPER RAIL



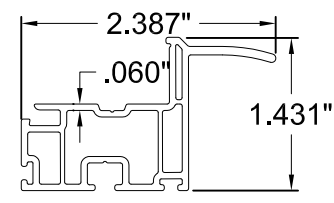
⑦ STILE



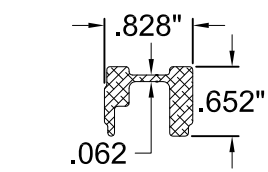
⑧ LOCK RAIL



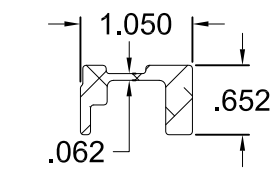
⑨ TOP PULL RAIL



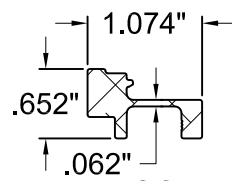
⑩ BOTTOM PULL RAIL



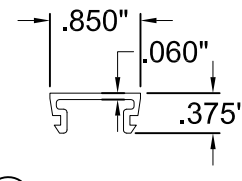
⑪ STILE REINFORCEMENT



⑫ KEEPER RAIL REINFORCEMENT



⑬ LOCK RAIL REINFORCEMENT



⑭ TOP PULL RAIL REINFORCEMENT

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



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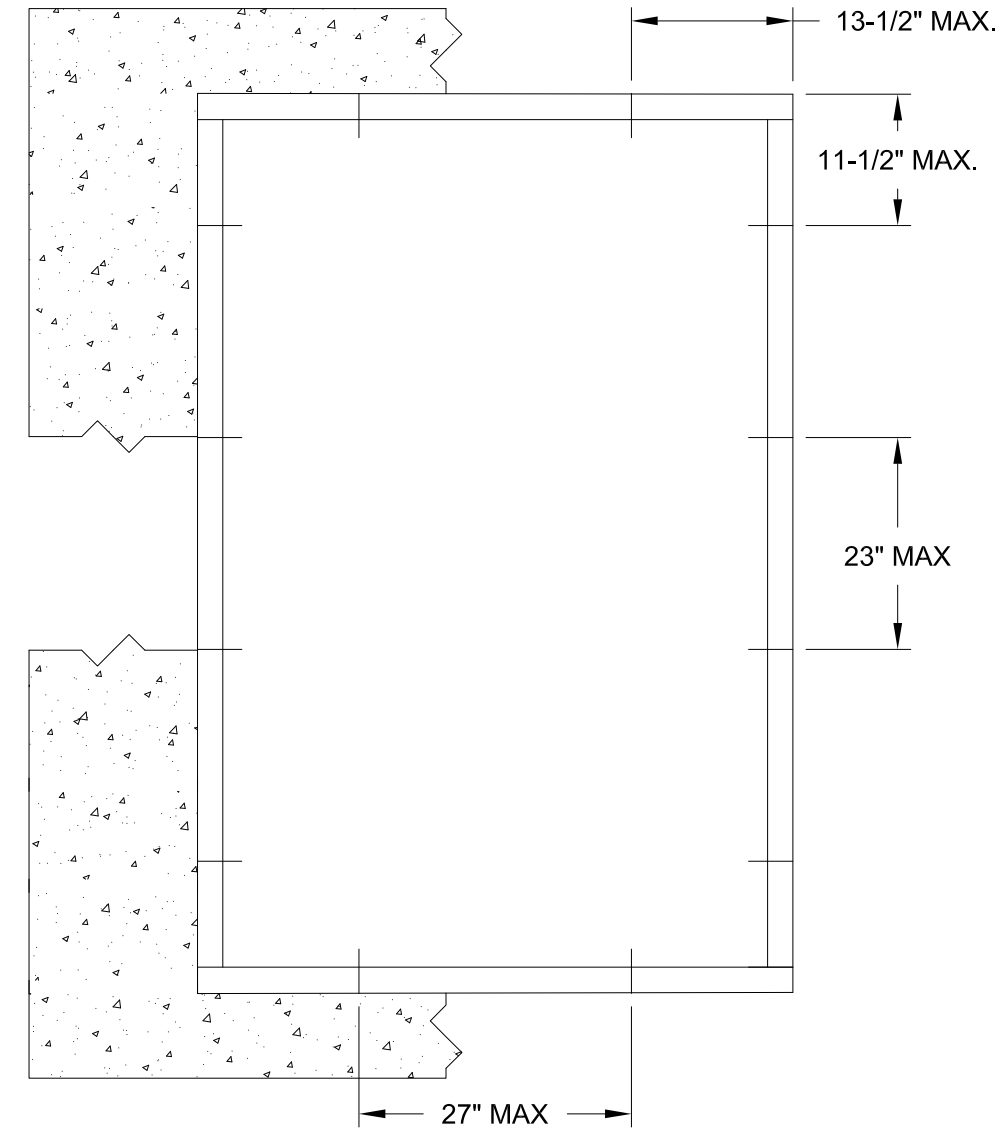
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1840 SERIES DOUBLE HUNG	EXTRUSIONS	NEWSOUTH WINDOW SOLUTIONS 10741 CROSSROADS COMMERCE BLVD. TAMPA, FL 33610
BY:		
REVISION:		
DATE:		
#:		
DATE:	9/26/2022	
SCALE:	NTS	
BY:	L YODER	
DRAWING #:	DH1840-TDI-01	
SHEET:	4 OF 5	

ITEM	DESCRIPTION	CBP PART #	MATERIAL/ DESCRIPTION
1A	EQUAL LEG MASTER FRAME	1813A	RIGID PVC
1B	NAIL FIN MASTER FRAME	1843AJ	RIGID PVC
1C	FIN-FLANGE MASTER FRAME	1843J	RIGID PVC
2	SILL ADAPTOR	1885	RIGID PVC
3	HEAD ADAPTER	1875	RIGID PVC
4	GLAZING BEAD	1876	RIGID PVC
5	SASH ADAPTER	1888	RIGID PVC
6	KEEPER RAIL	1817	RIGID PVC
7	STILE	1808	RIGID PVC
8	LOCK RAIL	1806	RIGID PVC
9	TOP PULL RAIL	1815	RIGID PVC
10	BOTTOM PULL RAIL	1805	RIGID PVC
11	STILE/BOTTOM PULL REINFORCEMENT	6113	6005A-T61
12	KEEPER RAIL REINFORCEMENT	6115	6005A-T61
13	LOCK RAIL REINFORCEMENT	6112	6063-T6
14	TOP PULL RAIL REINFORCEMENT	6114	6" / 6063-T6
15	KEEPER RAIL GASKET	pp1297 or E109	PP1297 for A1,A3
16	WSTP .187x.210	P-4026	GRAY
17	WSTP .187x.240	P-4028	BLACK
18	SPIRAL BALANCE	-	CALDWELL EZ-LIFT
19	COIL BALANCE	RT880-80	CALDWELL, ROLLER TILT 880
20	LOCK HOLDING SCREW	1007	#6 X 1-1/4" SMS
21	KEEPER HOLDING SCREW	1007	#6 X 1-1/4" SMS
22	REINFORCEMENT SCREW	1068	#6 X 5/8" FLAT TEK
23	INTERLOCK ADDER SCREW	1068	#6 X 5/8" FLAT TEK
26	PIVOT BAR	8148	6063-T6
27	TILT LATCHE	825	TRUTH 46.13 / ZINC BODY AND PLUNGER, STEEL SPRING
28	INTERLOCK EXTENDERS LH&RH	8125 -LH/RH	LAWRENCE / NYLON
29	LOCK	8122	VISION HARDWARE / ZINC BODY AND CAM
30	KEEPER	8123	VISION HARDWARE / ZINC
31	REINFORCEMENT SCREW FOR SASH JAMB	1003	#6 X 1/2" FLAT TEK
32	REINFORCEMENT SCREW FOR TOP RAIL	1068	#6 X 5/8" FLAT TEK
33	REINFORCEMENT SCREW FOR BOTTOM RAIL	1068	#6 X 5/8" FLAT TEK
34	PIVOT BAR SCREW	-	#8 X 1/4" PHIL PAN (2 / PIVOT BAR)
35	TILT LATCH SCREW	-	#6 X 1/2 FLAT TEK
36	TOP PULL RAIL REINFORCEMENT SCREW	-	#6 X 3/4 FLAT TEK

BUCK ANCHORAGE DETAIL



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"

- "UNGROUTED CMU" VALUES MAY BE USED FOR GROUDED CMU APPLICATIONS.
- ALL ANCHOR HEAD TYPES ARE APPLICABLE.



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Anthony Lynn Miller 9/26/22

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BY:	1840 SERIES DOUBLE HUNG
REVISION:	BILL OF MATERIALS & BUCK ANCHORAGE
DATE:	NEWSOUTH WINDOW SOLUTIONS 10741 CROSSROADS COMMERCE BLVD. TAMPA, FL 33610
#:	
DATE:	9/26/2022
SCALE:	NTS
BY:	L YODER
DRAWING #:	DH1840-TDI-01
SHEET:	5 OF 5