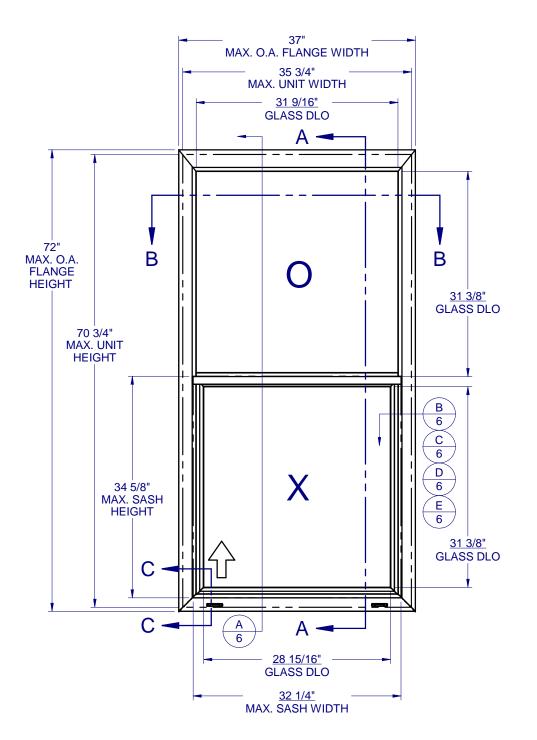
## SINGLE HUNG - LARGE MISSILE IMPACT



#### **GENERAL NOTES:**

- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AND IS RATED FOR WIND ZONE 4 MISSILE LEVEL D IMPACT USE AS DEFINED IN ASTM E 1996 PER THE FBC.
- 2. GLAZING OPTIONS: (SEE SHEET 2)
- 3. CONFIGURATIONS: "O/X".
- 4. DESIGN PRESSURE RATING:
  - -NEGATIVE DESIGN LOADS BASED ON, TESTED PRESSURE AND GLASS TABLES ASTM E-1300-04e01/09.
  - -POSITIVE DESIGN LOADS BASED ON, TESTED PRESSURE, WATER INFILTRATION TEST PRESSURE AND GLASS TABLES ASTM E-1300-04e01/09.
- 5. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEET 6 FOR ANCHOR DETAILS. WINDLOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- 6. PRODUCT APPROVED FOR IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED.
- 7. ALL FRAMES AND VENTS FULLY WELDED. SMALL JOINT SEAM SEALANT USED AT FIXED MEETING RAIL AND JAMB.
- 8. THE DESIGNATION X AND O STAND FOR THE FOLLOWING: X = OPERABLE SASH. O = FIXED SASH
- 9. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.
- 10. WEEP SLOTS = 1/4" x 1-1/4" LOCATED 4" FROM BOTH ENDS.



### 510 PVC SINGLE HUNG IMPACT

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9/26/2023

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SHEET DESCRIPTION:

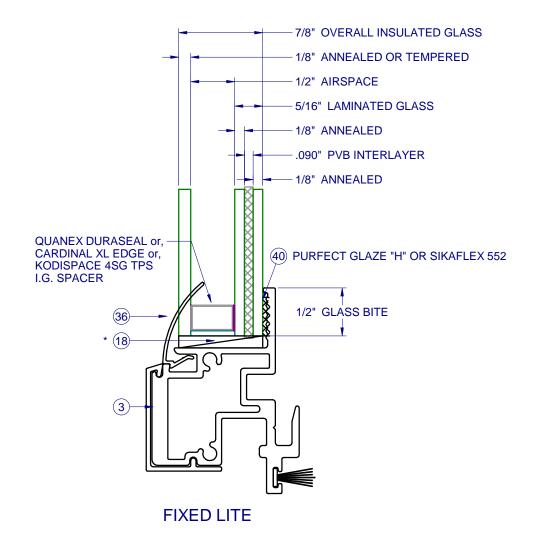
# GENERAL NOTES AND ELEVATIONS

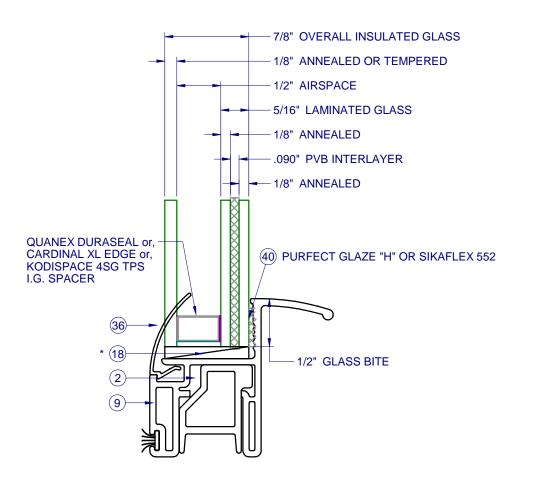
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FRAME TYPE	MAX. UNIT SIZE	DESIGN PRESSURE RATING	IMPACT RATING
FLANGE	35-3/4" x 70-3/4"	+/- 70 PSF	LARGE MISSILE IMPACT
FIN	30-3/4 X / U-3/4	+/- 65 PSF	LANGE WIGSTLE IMPACT









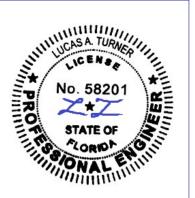
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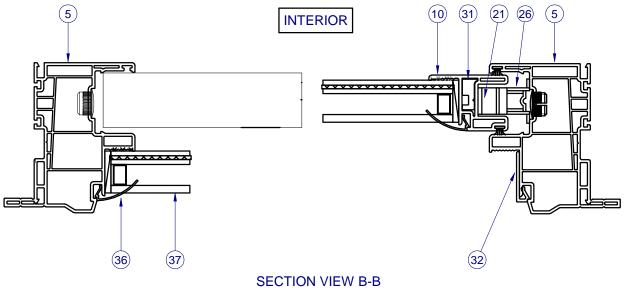
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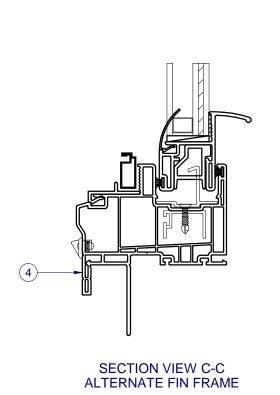
#### GLAZING DETAILS

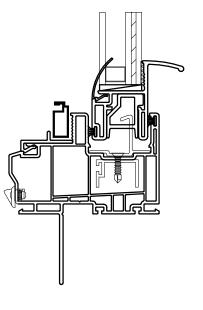
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\* SETTING BLOCKS PER FBC 2411.3.3.1



NOTE: LEFT SIDE SHOWS FIXED SECTION VIEW, RIGHT SIDE SHOWS SASH SECTION VIEW.





SECTION VIEW C-C ALTERNATE FIN ONLY FRAME



### **510 PVC SINGLE HUNG IMPACT**

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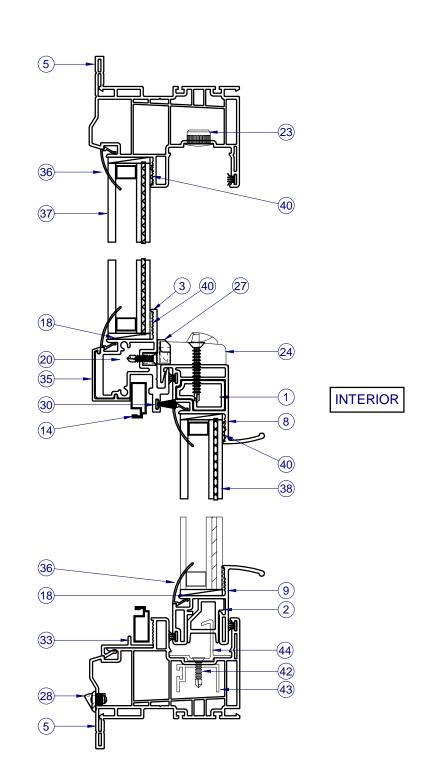
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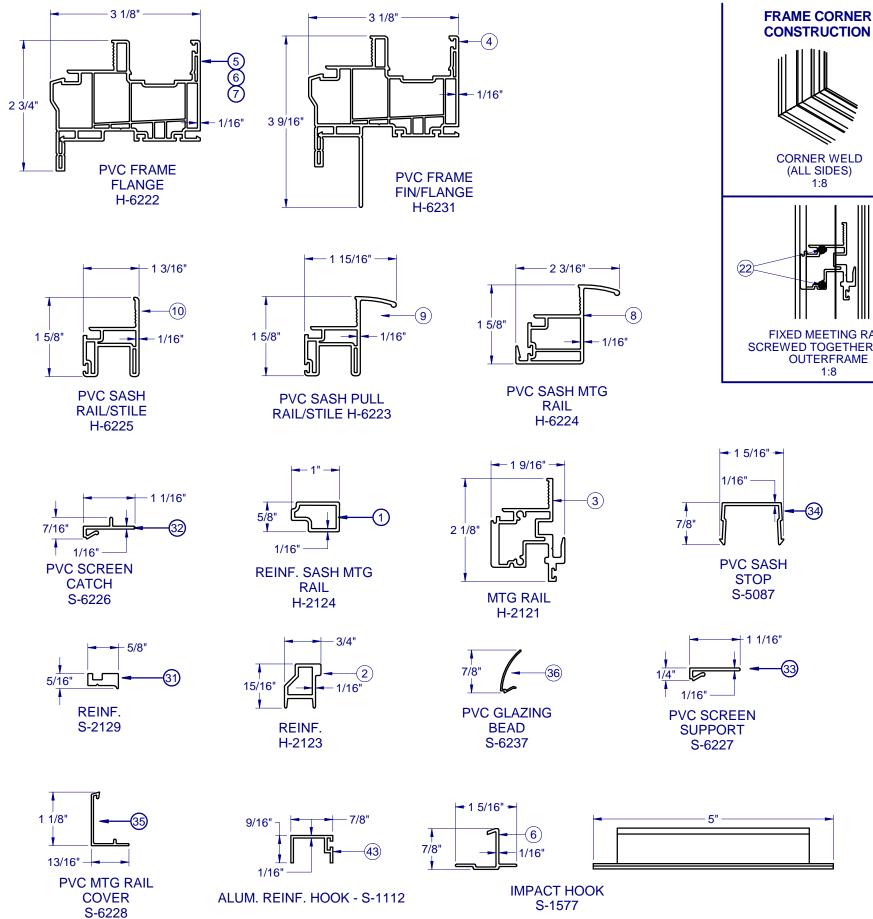
#### **SECTION VIEWS**

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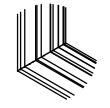


**SECTION VIEW A-A** 

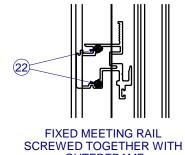
PARTS LIST					
ITEM PART # DESCRIPTION			MATERIAL		
1	H-2124	Reinforcement for STR	ALUMINUM		
2	H-2123	Reinforcement for SBR	ALUMINUM		
3	H-2121	Alum. Fixed Meet. Rail	ALUMINUM		
4	H-6231	Main Frame, Fin, Single Hung	PVC		
5	H-6222	Frame Head, Flg, Single Hung	PVC		
8	H-6224	Sash Top Rail	PVC		
9	H-6223	Sash Bottom Rail	PVC		
10	H-6225	Sash Side Rail	PVC		
11	P-4755	Screen Corner Key W/ Safety Pull Tat	STEEL		
12	P-3195	SPRING, NO HOLE TENSION C-840	STEEL		
14	P-3218	Screen Frame	ALUMINUM		
15	P-5576	Screen Spline, .125"	VINYL FOAM		
16	P-4754	SCREEN CORNER KEY	NYLON		
17	P-3342	Seam Sealer			
18	P-5612	Setting Block, .12 x 1 x 2	RUBBER		
19	P-3305	Wstp., 0.270 x 0.187 High Density	NYLON		
20	P-3539	#8 x 3/4" Phillips Square SMS	STEEL		
21	P-3541	#8 x 1/2" Quadrex PH TEK	STEEL		
22	P-4770	30"- BetterVue Insect Screen, 18x16	VINYL		
23	P-5588	Hole Plug, 1/2"	NYLON		
24	P-3783	Lock, Impact			
25	P-4051	#8 x 1 1/4" Ph Fh TEK, Wht.	STEEL		
26	P-4056	Sash Cam	NYLON		
27	P-4069	Keeper, Impact	ZAMAC		
28	P-4479	WEEP HOLE COVER	PVC		
29	P-4638	#8 x 2 1/2 Phil Truss SMS	STEEL		
30	P-4959	Wstp., 0.420 x 0.187 High Density	NYLON		
31	S-2129	Reinforcement for SSR	ALUMINUM		
32	S-6226	Screen Adaptor, Sill	PVC		
33	S-6227	Screen Adaptor, Jamb	PVC		
34	S-5087	SASH STOP	PVC		
35	S-6228	Fixed Rail Cover	PVC		
36	S-6237	Glazing Bead	PVC		
37	FIXED	SEE SHEET 2	GLASS		
38	SASH	SEE SHEET 2	GLASS		
39		SASH BALANCE	STEEL		
40		Purfect Glaze "H" or Sikaflex 552	SILICONE		
41		#10 x 2" Pan Phil sms	STEEL		
42	P-3748	#6 x 5/8" Phillips FH TEK	STEEL		
43	S-1112	Reinforcement, Hook	ALUMINUM		
44	S-1112	Frame Hook	ALUMINUM		







CORNER WELD (ALL SIDES)



OUTERFRAME



**Pella Corporation** 

102 Main Street Pella, IA 50219 www.pella.com

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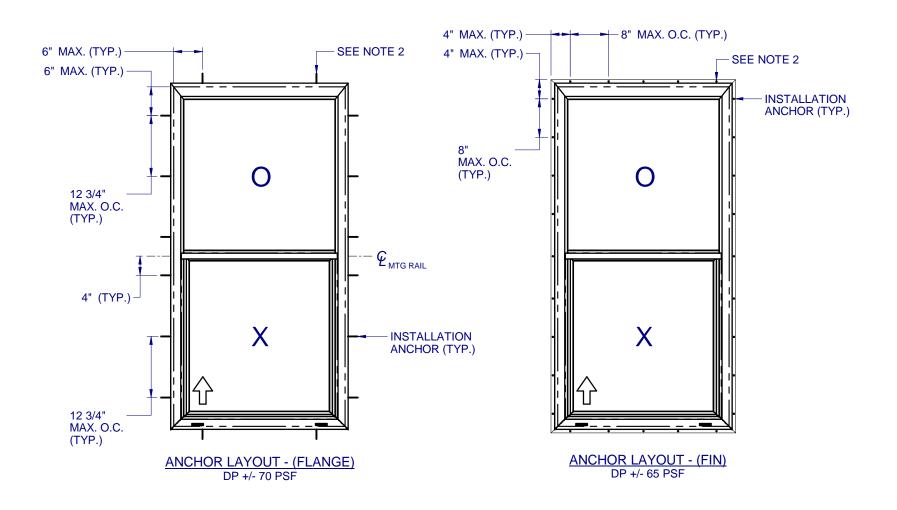
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#### **BOM AND EXTRUSIONS**

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#### NOTES:

- 1. INSTALL ONE ANCHOR AT EACH INSTALLATION LOCATION. SILL ANCHOR SPACING SAME AS HEAD.
- 2. SHIM AS REQ AT EACH INSTALLATION ANCHOR USING LOAD BEARING SHIMS. MAX. ALLOWABLE SHIM STACK TO BE 1/4". USE SHIMS WHERE SPACE GREATER THAN 1/16" IS PRESENT. LOAD BEARING SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER. WOOD SHIMS ARE NOT ALLOWED.
- 3. ANCHOR TYPE, SIZE, SPACING AND EMBEDMENT SHALL BE AS SPECIFIED IN THESE DRAWINGS, SEE TABLE 1, SHEET 6.
- 4. ALL INSTALLATION ANCHORS MUST BE MADE OF OR PROTECTED WITH A CORROSION RESISTANT MATERIAL OR COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.
- 5. INSTALLATION ANCHORS SHALL BE IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM SPECIFIED IN TABLE 1. SHEET 6.
- 6. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR CONCRETE/CMU OPENINGS, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, INTO SUBSTRATE. INSTALLATIONS TO SOLID CONCRETE OR GROUT-FILLED CMU MAY INCLUDE BUT DO NOT REQUIRE 1X WOOD BUCKS BETWEEN THE PRODUCT AND THE SUBSTRATE. INSTALLATIONS TO HOLLOW CMU REQUIRE THE USE OF 1X BUCKS BETWEEN THE PRODUCT AND SUBSTRATE.
- 7. A MINIMUM CENTER-TO-CENTER SPACING SHALL BE MAINTAINED BETWEEN ALL FASTENERS: 3" FOR MASONRY, 1" FOR WOOD AND METAL.
- 8. WOOD OR MASONRY OPENINGS, BUCKS AND BUCK FASTENERS SHALL BE PROPERLY DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD AND INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE1, SHEET 6. CONCRETE AND MASONRY SUBSTRATES MAY NOT BE CRACKED.
- 9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS FOLLOWING THE CURRENT VERSION OF THE REFERENCE DOCUMENTS: FMA/AAMA 100(FIN WINDOWS), FMA/AAMA 200(FLANGE WINDOWS), FMA/WDMA 250(BOX WINDOWS), FMA/AAMA/WDMA 300(EXTERIOR DOORS)

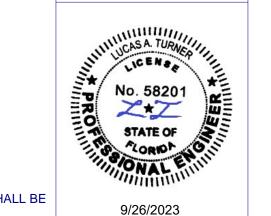


### **510 PVC** SINGLE HUNG **IMPACT**

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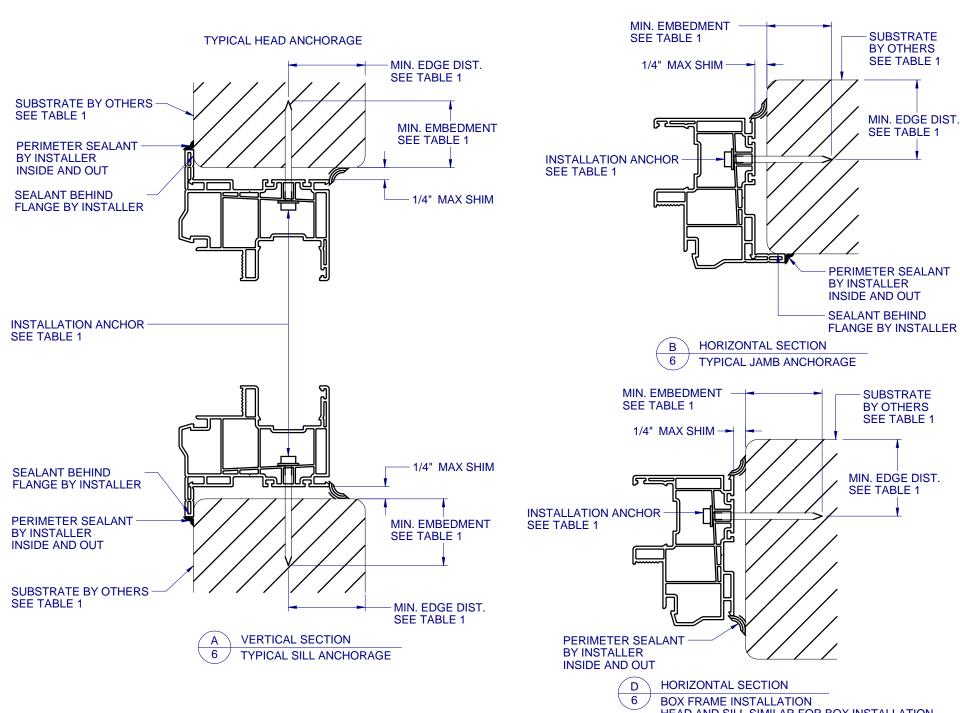
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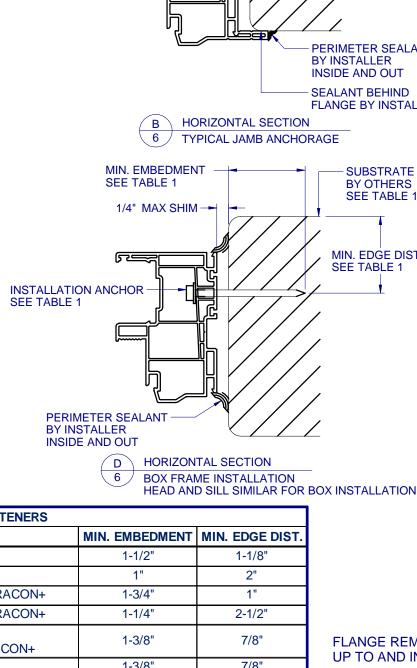
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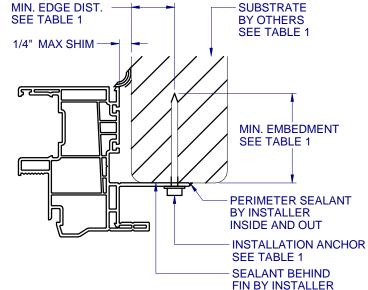
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#### ANCHOR SCHEDULE AND **NOTES**

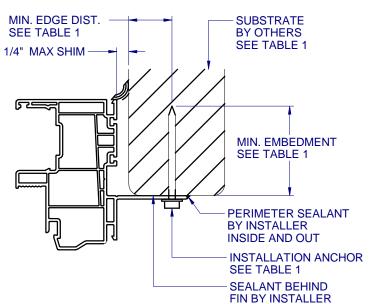
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HORIZONTAL SECTION TYPICAL FIN ANCHORAGE HEAD AND SILL SIMILAR FOR FIN INSTALLATION



HORIZONTAL SECTION TYPICAL FIN ANCHORAGE HEAD AND SILL SIMILAR FOR FIN INSTALLATION

FLANGE REMOVAL NOTE: PARTIALLY OR FULLY REMOVING THE FLANGE, UP TO AND INCLUDING A BOX-FRAME APPLICATION IS ACCEPTABLE PROVIDED:

- MIN. 1/4" FILLET OF CONSTRUCTION-GRADE ADHESIVE CAULK IS APPLIED INSIDE AND OUT, FULL PERIMETER, BY INSTALLER.
- PRODUCT ANCHORAGE IS IN ACCORDANCE WITH REQUIREMENTS AS SHOWN FOR FLANGE WINDOWS.



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#### **INSTALLATION DETAILS**

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FRAME TYPE	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBEDMENT		
FLANGE	CONCRETE (2.0 KSI MIN.)	3/16" ITW TAPCON	1-1/2"	1-1/8"	
FLANGE	HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"	
FLANGE	CONCRETE (3.05 KSI MIN.)	3/16" DEWALT ULTRACON+	1-3/4"	1"	
FLANGE	HOLLOW OR GROUT-FILLED CMU (ASTM C-90)	3/16" DEWALT ULTRACON+	1-1/4"	2-1/2"	
FLANGE	2X MIN. SOUTHERN PINE (G=0.55)	3/16" ITW TAPCON OR DEWALT ULTRACON+	1-3/8"	7/8"	
FLANGE	2X MIN. SOUTHERN PINE (G=0.55)	#10 WOOD SCREW	1-3/8"	7/8"	
FLANGE	16 GAUGE (0.060") MIN. STEEL STUD (33 KSI YIELD MIN)	#10-16 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW	FULL THREAD THRU 0.060"	7/16"	
FLANGE	1/8" ALUM. (6063-T5 MIN.) OR 1/8" STEEL (33 KSI MIN.)	#10 GRADE 5 SELF-TAPPING / DRILLING SCREW	FULL THREAD THRU 0.125"	7/16"	
FIN	2X MIN. SOUTHERN PINE (G=0.55)	#8 WOOD SCREW	1-1/2"	7/16"	