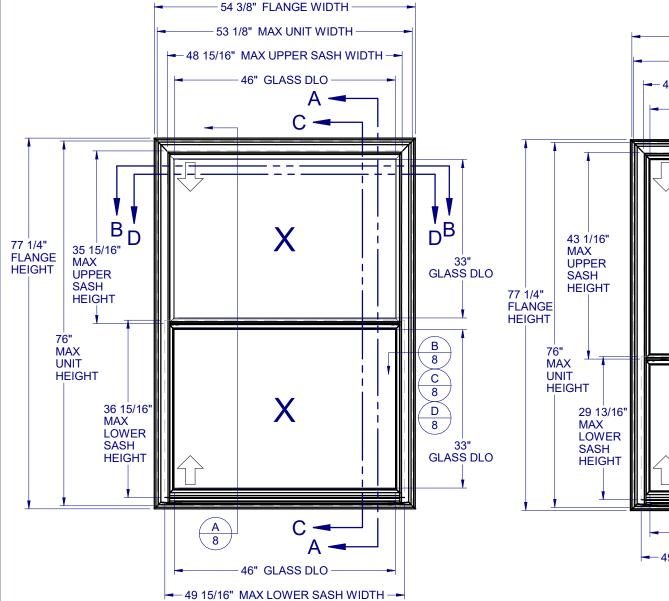
MODEL 650 SYSTEMS 1 AND 2 DOUBLE HUNG - NON-IMPACT



EQUAL SPLIT
SYSTEM 1
(CAR 138-1307)
MAXIMUM ALLOWABLE DESIGN PRESSURE: +50/-50

53 1/8" MAX UNIT WIDTH ---- 48 15/16" MAX UPPER SASH WIDTH --46" GLASS DLO X 40 1/2" **GLASS DLO** 26 1/4" **GLASS DLO** 46" GLASS DLO --- 49 15/16" MAX LOWER SASH WIDTH ---

53 13/16" FLANGE WIDTH

ORIEL
SYSTEM 2
(CAR 138-1378)
MAXIMUM ALLOWABLE DESIGN PRESSURE: +50/-50 PSF

TABLE OF CONTENTS

GENERAL NOTES:

- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE AND 2018 INTERNATIONAL RESIDENTIAL CODE.
- 2. GLAZING OPTIONS: (SEE SHEET 3)
- 3. CONFIGURATIONS: "X/X".
- 4. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEET 8 FOR ANCHOR DETAILS. WINDLOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- 5. NOT APPROVED FOR IMPACT RESISTANCE. IMPACT PROTECTIVE SYSTEM IS REQUIRED IN WIND BORNE DEBRIS REGION.
- 6. ALL FRAMES AND VENTS FULLY WELDED. SMALL JOINT SEAM SEALANT USED AT FIXED MEETING RAIL AND JAMB.
- 7. SERIES / MODEL DESIGNATION DH-650.
- 8. THE DESIGNATION X AND O STAND FOR THE FOLLOWING: X = OPERABLE SASH
- 9. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.
- 10. EXTERNAL WEEP SLOT = 1/2 x 2-1/2" LOCATED 5" FROM BOTH ENDS.



1900 SW 44TH AVE. OCALA, FLORIDA 34474 WWW.CWS.CC

650 PVC DOUBLE HUNG NON-IMPACT

		7/23/21	3/8/17	8/2/16	DATE:	
		JLD	JML	JML	BY:	
		REVISED TO TDI REQUEST JLD 7/23/21	REVISED TO TDI REQUEST JML	REVISED TO TDI REQUEST JML	NO.: DESCRIPTION:	REVISIONS
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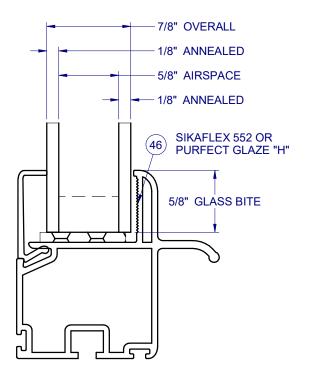
8/5/2021

LUCAS A. TURNER, P.E. TX PE # 115094 2428 Old Natchez Trc Trl Camden, TN 38320 PH. 941-380-1574

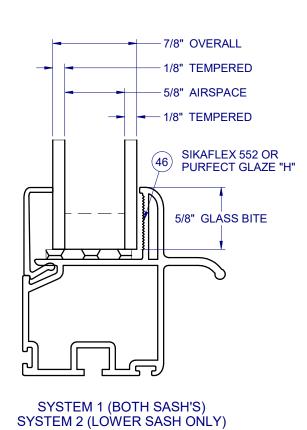
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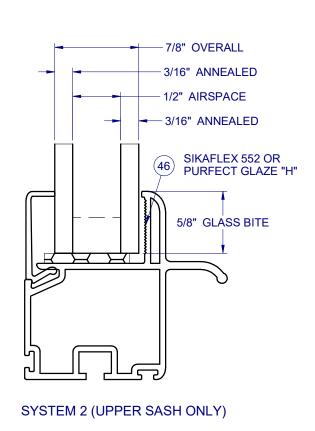
GENERAL NOTES AND ELEVATIONS

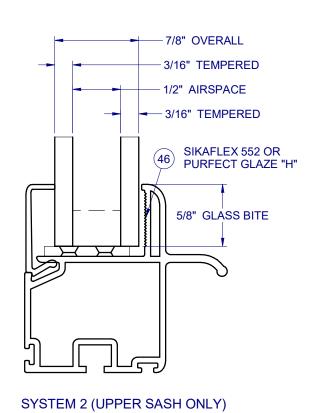
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DWG #:	REV.:
TDI-936	С
SCALE:	SHEET
1:20	1 OF 6



SYSTEM 1 (BOTH SASH'S) SYSTEM 2 (LOWER SASH ONLY)







CUSTOMO WINDOW SYSTEMS

1900 SW 44TH AVE.
OCALA, FLORIDA 34474

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650 PVC DOUBLE HUNG NON-IMPACT

		7/23/21	3/8/17	8/2/16	DATE:	
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		REVISED TO TDI REQUEST JLD 7/23/21	REVISED TO TDI REQUEST JML	REVISED TO TDI REQUEST JML	NO.: DESCRIPTION:	REVISIONS
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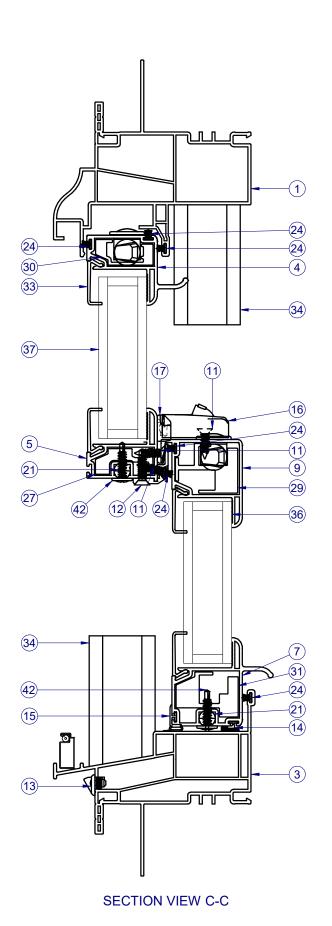
8/5/2021

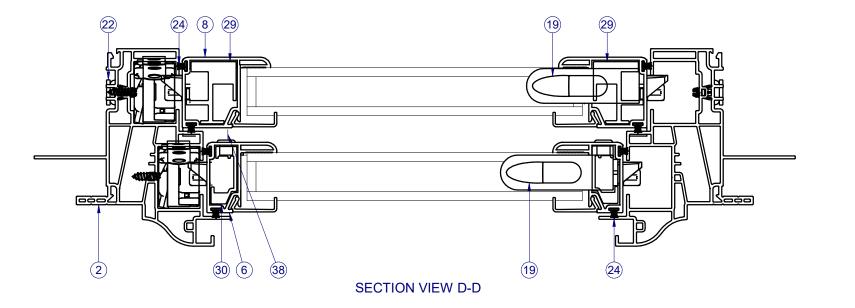
LUCAS A. TURNER, P.E. TX PE # 115094 2428 Old Natchez Trc Trl Camden, TN 38320 PH. 941-380-1574

SHEET DESCRIPTION:

GLAZING DETAILS

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650 PVC DOUBLE HUNG NON-IMPACT

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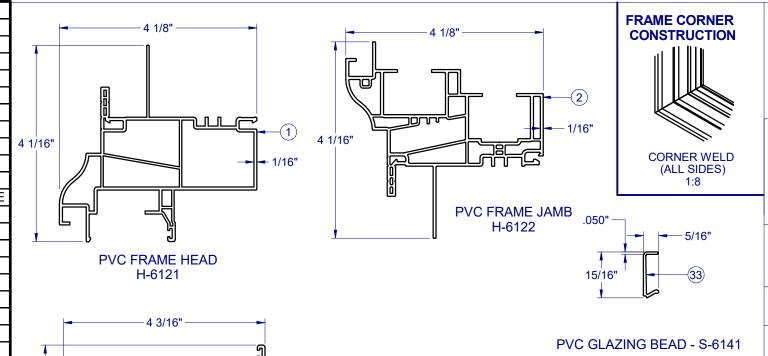
LUCAS A. TURNER, P.E. TX PE # 115094 2428 Old Natchez Trc Trl Camden, TN 38320 PH. 941-380-1574

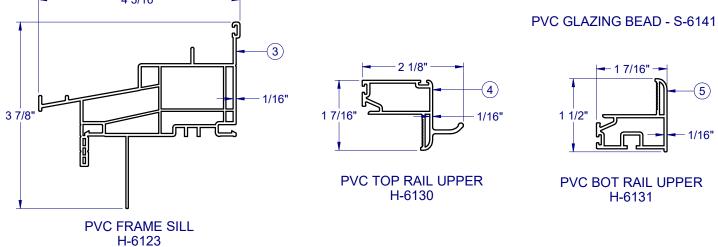
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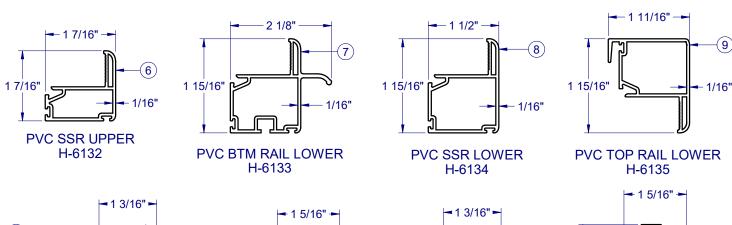
SECTION VIEWS OVER 37" WIDE

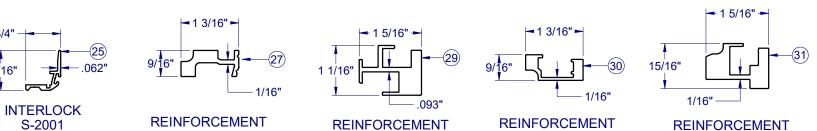
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EMK	12/17/15
DWG #:	REV.:
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SCALE: 1:2	SHEET 3 OF 6

ITEM	DART #	PARTS LIST DESCRIPTION	MATERIAL	VENDOR	
1		HEAD, OUTERFRAME	PVC	ATN	
2		JAMBS, OUTERFRAME	PVC	ATN	
3		SILL, OUTERFRAME	PVC	ATN	
4		TOP RAIL, UPPER SASH	PVC	ATN	
5		BOTTOM RAIL, UPPER SASH	PVC	ATN	
6		SASH SIDE RAIL, UPPER SASH	PVC	ATN	
7		BOTTOM RAIL, LOWER SASH	PVC	ATN	
8		SASH SIDE RAIL, LOWER SASH	PVC ATN PVC ATN		
9		TOP RAIL, LOWER SASH			
10		SETTING BLOCK	RUBBER	FRANK LOWE	
11		#8 x 5/8 PHIL FLAT WHITE SMS	STEEL	FASTENAL	
12		#8 X 3/4 PHIL FLAT TEK.	STEEL	FASTENAL	
13		WEEP COVER	NYLON	M&M	
14		WSTP, .355 X 333BULB VINYL		AMESBURY	
15		WSTP, .950 X .450 T-SLOT, HOLLOW FOAM		AMESBURY	
16	P-3783	,		INTERLOCK	
17		KEEPERS		INTERLOCK	
19		SASH TILT LATCH	NYLON	CALDWELL	
21	P-5396	PIVOT BAR	SS	CALDWELL	
22	P-5412	JAMB JACK	STEEL	MERCHANTS	
24		WSTP., .270 X 187		ULTRAFAB	
25		INTERLOCK RAIL	ALUM	ASCEND	
27	S-2003	REINF, BOT RAIL, UPPER SASH	ALUM	ASCEND	
29	S-2005	REINF, TOP RAIL, LOWER SASH, & SIDE RAIL LOWER SAS	ALUM	ASCEND	
30	S-2006	REINF, SASH SIDE RAIL, UPPER SASH	ALUM	ASCEND	
31	S-2010	REINF, BOTTOM RAIL, LOWER SASH	ALUM	ASCEND	
33		GLAZING BEAD	PVC	ATN	
34	S-5592	SASH STOP			
35		BALANCERS - CONSTANT FORCE RT		CALDWELL	
36		HOTMELT	SILICONE	TRUSEAL	
37		SEE SHEET 2			
39	P-3218	SCREEN FRAME	ALUM	FLA SCREEN	
40		SCREEN CORNER KEY	NYLON	FLA SCREEN	
41		SCREEN SPLINE		DAPA	
42		#8 X 3/4 PHIL MOD TRUSS TEK	STEEL	FASTENAL	
43	P-3033	SCREEN SPRINGS		FLA SCREEN	
44	P-5444	#8 x 7/8" PHILLIPS FH TEK			









S-2006

S-2005

S-2003



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650 PVC DOUBLE HUNG NON-IMPACT

		7/23/21	3/8/17	8/2/16	DATE:	
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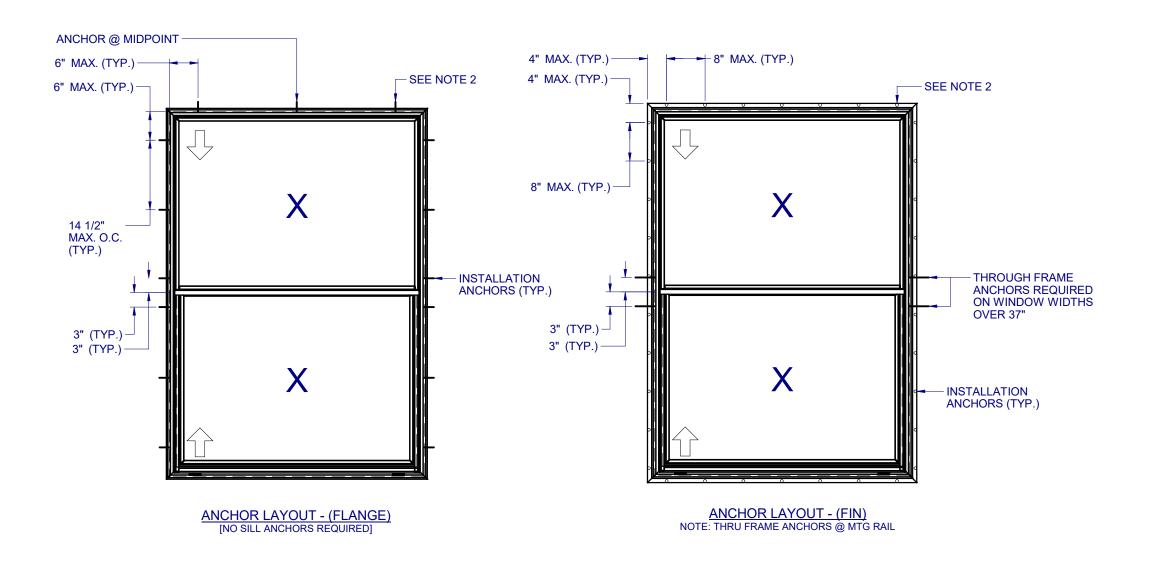
SHEET DESCRIPTION:

S-2010

BOM AND EXTRUSIONS

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DWG #:	REV.:
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SCALE:	SHEET
1:2	4 OF 6

LINE ITEMS NOT USED: 23



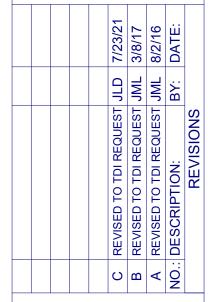
NOTES:

- 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 8.
- 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 8.
- 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 1X BUCKS ARE OPTIONAL.
- 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 8. 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)



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650 PVC DOUBLE HUNG NON-IMPACT





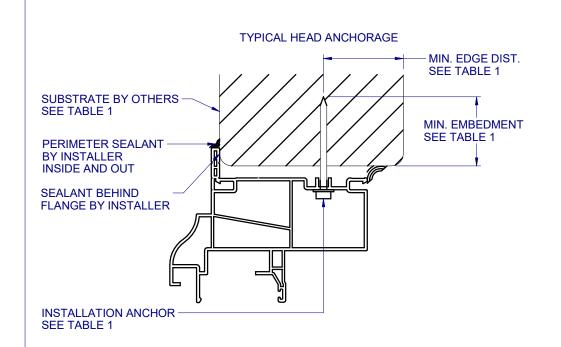
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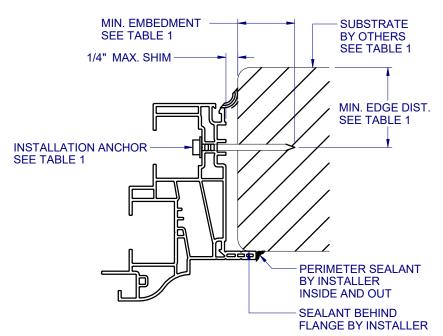
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SHEET DESCRIPTION:

ANCHOR SCHEDULE AND NOTES

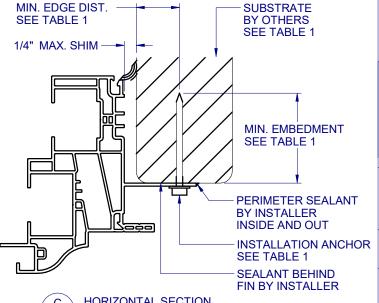
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B HORIZONTAL SECTION

8 TYPICAL JAMB ANCHORAGE

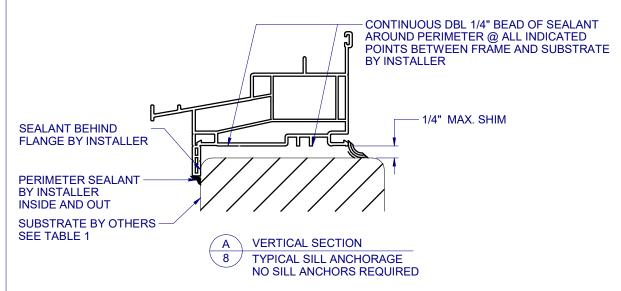


C HORIZONTAL SECTION

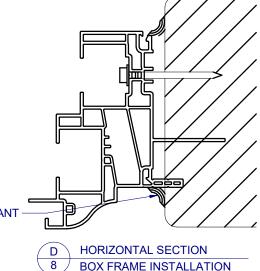
8 TYPICAL FIN ANCHORAGE

HEAD AND SILL SIMILAR FOR FIN INSTALLATION

NOTE: ADDITIONAL THRU-FRAME ANCHORS (AS SHOWN IN DET. B/7) REQ'D AT MTG RAIL FOR UNIT WIDTHS OVER 37", SEE SHEET 7 ANCHOR LAYOUT



FRAME TYPE	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DIST
FLANGE	CONCRETE (2.0 KSI MIN.)	3/16" ITW TAPCON	1"	1-1/8"
FLANGE	HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"
FLANGE	CONCRETE (2.85 KSI MIN.)	3/16" ELCO ULTRACON	1"	1"
FLANGE	GROUT-FILLED CMU (ASTM C-90)	3/16" ELCO ULTRACON	1-1/4"	2-1/2"
FLANGE	2X MIN. SOUTHERN PINE (G=0.55)	3/16" ITW TAPCON OR ELCO ULTRACON	1-3/8"	7/8"
FLANGE	2X MIN. SOUTHERN PINE (G=0.55)	#10 PHILLIPS PH SHEET METAL SCREW W/ WASHER COMBO	2"	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)	#10 PHILLIPS PH SHEET METAL SCREW W/ WASHER COMBO	2"	1/2"



PERIMETER SEALANT BY INSTALLER INSIDE AND OUT

SIMILAR FOR SILL AND JAMBS FOR BOX 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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8/5/2021

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SHEET DESCRIPTION:

INSTALLATION DETAILS

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DWG #:	REV.:
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SCALE:	SHEET
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