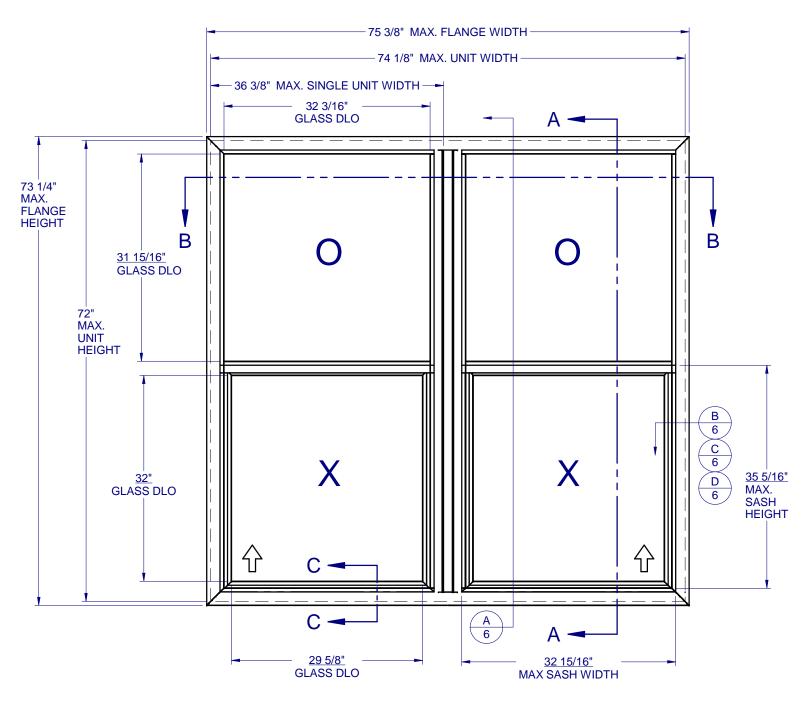
MODEL 8100 SYSTEM 11 SINGLE HUNG - LARGE MISSILE IMPACT



SYSTEM 11 (CAR 138-260/138-703)

TABLE OF CONTENTS

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GLAZING DETAIL	2
SECTION VIEWS	3
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ANCHOR SCHEDULE & NOTES	5
INSTALLATION DETAILS	6

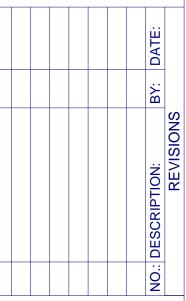
GENERAL NOTES:

- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC) AND INTERNATIONAL RESIDENTIAL CODE (IRC), WITH TEXAS REVISIONS EFFECTIVE JANUARY 1, 2008.
- 2. GLAZING OPTIONS: (SEE SHEET 2)
- 3. CONFIGURATIONS: "O/X O/X".
- 4. 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.
- 5. PRODUCT APPROVED FOR IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED. THE IMPACT ROTARY LOCKS ARE INTENDED TO BE LEFT UNLATCHED DURING NORMAL OPERATION OF THIS PRODUCT, BUT MUST BE ENGAGED PRIOR TO EXPOSURE TO HURRICANE WINDS AND FLYING DEBRIS.
- 6. ALL FRAMES AND VENTS FULLY WELDED. SMALL JOINT SEAM SEALANT USED AT FIXED MEETING RAIL, INTERNAL MULL ENDS AND JAMBS.
- 7. SERIES / MODEL DESIGNATION SH-8100 CONTINUOUS FRAME.
- 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. EXTERNAL WEEP SLOT = 1/4" x 1-1/4" LOCATED 4" FROM BOTH ENDS.



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8100 PVC SINGLE HUNG IMPACT





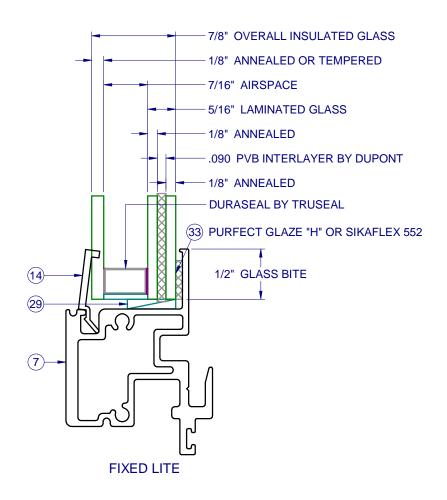
72 9/29/2016

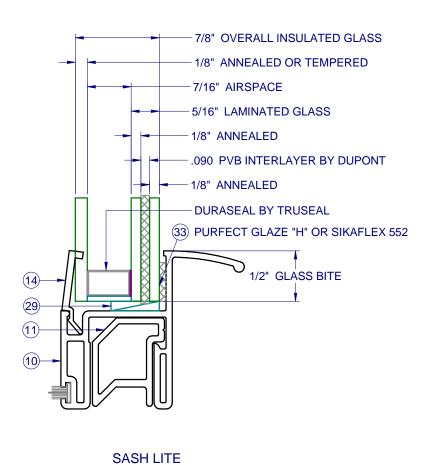
LUCAS A. TURNER, P.E. TX PE # 115094 1239 JABARA AVE. NORTH PORT, FL 34288 PH. 941-380-1574

SHEET DESCRIPTION:

GENERAL NOTES AND ELEVATIONS

DRAWN BY:	DATE:
EMK	11/12/15
DWG #:	REV.:
TDI-491	-
SCALE:	SHEET
1:1	1 OF 6

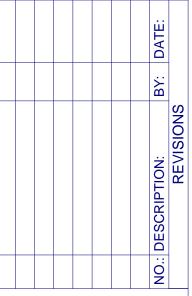






WWW.CWS.CC

8100 PVC SINGLE HUNG IMPACT





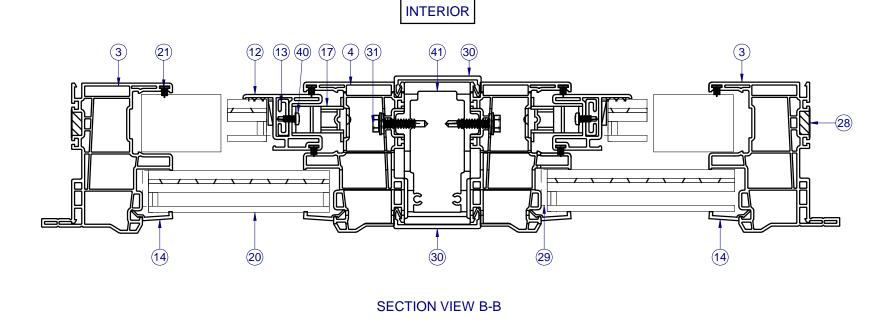
77 9/29/2016

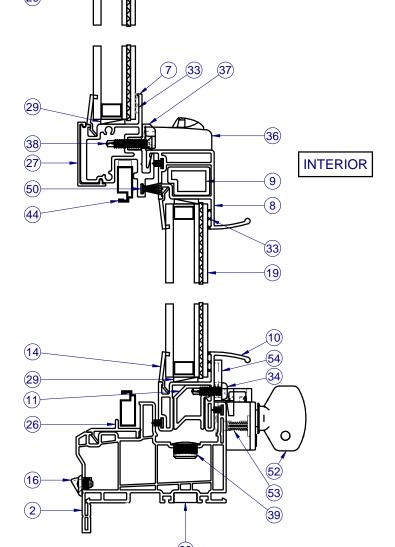
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SHEET DESCRIPTION:

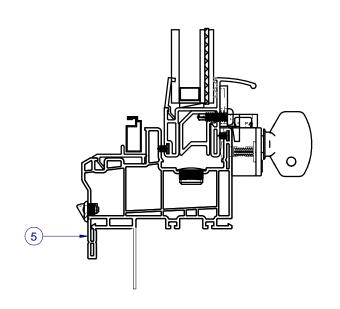
GLAZING DETAIL

DATE
DATE:
11/12/15
REV.:
-
SHEET
2 OF 6





SECTION VIEW A-A

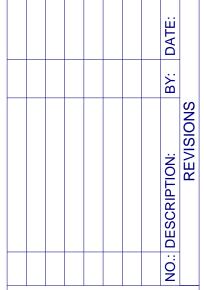


SECTION VIEW C-C ALTERNATE FIN FRAME

WINDOW SYSTEMS

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8100 PVC SINGLE HUNG IMPACT





9/29/2016

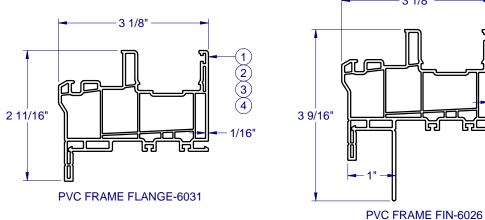
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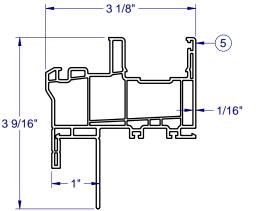
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SECTION VIEWS

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DWG #:	REV.:
TDI-491	-
SCALE:	SHEET
1:2	3 OF 6

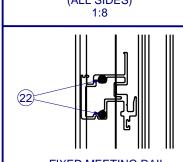
		PARTS LIST		
ITEM	PART#	DESCRIPTION	VENDOR	MATERIAL
1	H-6031	Frame Head, Flg,	Mikron	Vinyl
2	H-6031	Frame Sill, Flg,	Mikron	Vinyl
3	H-6031	Frame Jamb, Flg,	Mikron	Vinyl
4	H-6031	Internal Fr.,Jb.	Mikron	Vinyl
5	H-6026	Frame, Fin	Mikron	Vinyl
6	S-6025	Sash Stop / Filler	Mikron	Vinyl
7	H-1836	Alum. Fixed Meet. Rail	Keymark	Alum
8	H-6027	Sash Top Rail	Mikron	Vinyl
9	H-1497	Reinforcement for STR	Keymark	Alum
10	H-6028	Sash Bottom Rail	Mikron	Vinyl
11	H-1699	Reinforcement for SBR	Keymark	Alum
12	H-6004	Sash Side Rail	Mikron	Vinyl
13	S-1498	Reinforcement for SSR	Keymark	Alum
14	S-6064	Glazing Bead	Mikron	Vinyl
15	P-3059	Sash Cam	M&M	Plastic
16	P-4479	Weep Housing & Flap Assm.	M&M	Plastic
17		Block & Tackle Balance	Caldwell	Steel
18	P-3295	Take Out Clip	Summit	Steel
19	Sash	SEE SHEET 2	CARDINAL	GLASS
20	Fixed	SEE SHEET 2	CARDINAL	GLASS
21	P-3429	Wstp., 0.270 x 0.187 back FinSeal	UltraFAB	Nylon
22	P-4638	#8 x 2-1/2 PH Mod. Truss, Type A,	Fastenal	Steel
23		#10 x 1 1/2" Panhead SMS	Fastenal	Steel
24		Flat Washer	Fastenal	Steel
25	S-6014	Screen Support	Mikron	Vinyl
26	S-6013	Screen Catch	Mikron	Vinyl
27	S-6063	Fixed Rail Cover	Mikron	Vinyl
28	P-3113	Screw Support, PVC	Team Plastics	Rubber
29	P-3352	Set. Blk. 1/8" x 5/8" x 2"	Frank Lowe	Rubber
30	S-6018	Mullbar Cover	Mikron	Vinyl
31	P-3767	#10 x 1 Hex Head Tek	Fastenal	Steel
32	P-3342	Seam Sealer, SM-5504	Schnee	
33		SikaFlex 552 or Purfect Glaze "H"	Sika/Henkel	
34	P-3541	#8 x 1/2 Flat Tek	Fastenal	Steel
35	P-4051	#8 x 1 1/4" PH Flat Tek	Fastenal	Steel
36	P-3783	Lock	Interlock	Steel
37	P-4069	Keeper	Interlock	Steel
38	P-4264	#8 x 3/4" PH Flat w/ #6 Head	Fastenal	Steel
39	P-3752	Hole Plug	M&M	Plastic
40	P-3559	#8 x 3/8" PH Pan Tek	Fastenal	Steel
41	H-1736	Internal Mullbar	Keymark	Alum
44	P-3218	Screen frame	ALL Metal	Alum
45	P-3321	Screen Corner Key	ALL Metal	Plastic
46	P-3228	Screen Spline	DAPA	Rubber
47	P-3033	Screen Spring	FLA Screen	Steel
48	P-3029	Screen Pull tab	Summit	Alum
49	. 0020	Screen Material	NY Wire	Fiberglass
50	P-4959	Wstp., 0.420 x 0.187 back	UltraFAB	Nylon
	P-3541	#8 x 1/2, Pan Head, Tek	Fastenal	Steel
51	. 5571	"5 A 1/2, I dil libda, ION		0.001
51 52	P-4632	Sween Lock	Sullivan	
51 52 53	P-4632 P-4633	Sweep Lock Binding Post and Screw	Sullivan Sullivan	



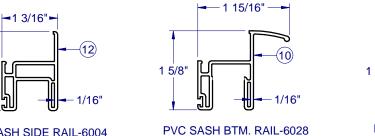


CORNER WELD (ALL SIDES) 1:8

FRAME CORNER **CONSTRUCTION**



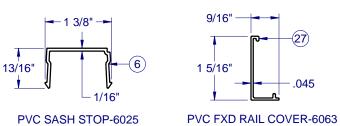
FIXED MEETING RAIL SCREWED TOGETHER WITH OUTERFRAME 1:8

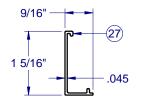


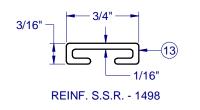
2 1/8"



—— 2 3/16"







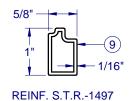
1 5/8"

1 3/4"

PVC SASH SIDE RAIL-6004

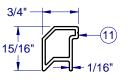
2 15/16"

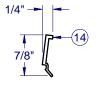
INTERNAL MULL BAR-1736



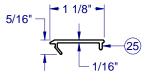
MTG RAIL-1836

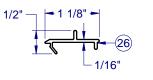
1/16"

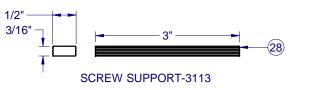




PVC GLAZEBEAD-6064 REINF. S.B.R.-1699







PVC SCREEN SUPPORT-6014

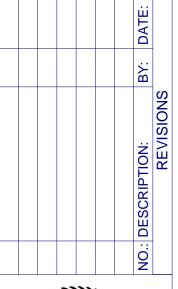
PVC SCREEN CATCH-6013

LINE ITEMS NOT USED: 42-43



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8100 PVC **SINGLE HUNG IMPACT**







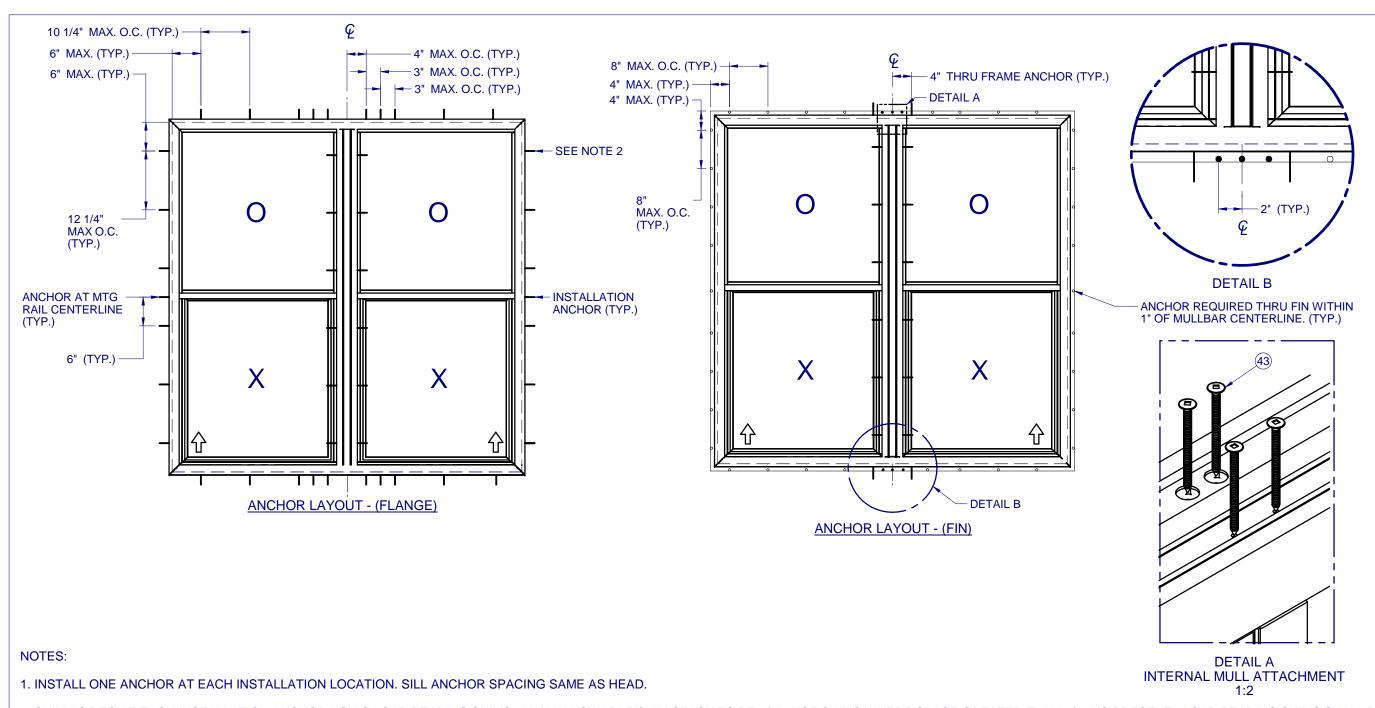
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SHEET DESCRIPTION:

BOM AND EXTRUSIONS

DRAWN BY:	DATE:
EMK	11/12/15
DWG #:	REV.:
TDI-491	-
SCALE:	SHEET
1:2	4 OF 6

NOTE: ALL EXTRUSIONS ARE ALUMINUM 6063-T6 UNLESS OTHERWISE NOTED.

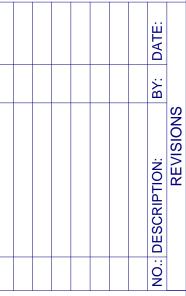


- 2. SHIM AS REQ AT EACH INSTALLATION ANCHOR USING LOAD BEARING SHIMS. MAX. ALLOWABLE SHIM STACK TO BE 1/4". USE SHIMS WHERE SPACE GREATER THAN 1/16" IS PRESENT. LOAD BEARING SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER. WOOD SHIMS ARE NOT ALLOWED.
- 3. ANCHOR TYPE, SIZE, SPACING AND 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)



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8100 PVC SINGLE HUNG IMPACT





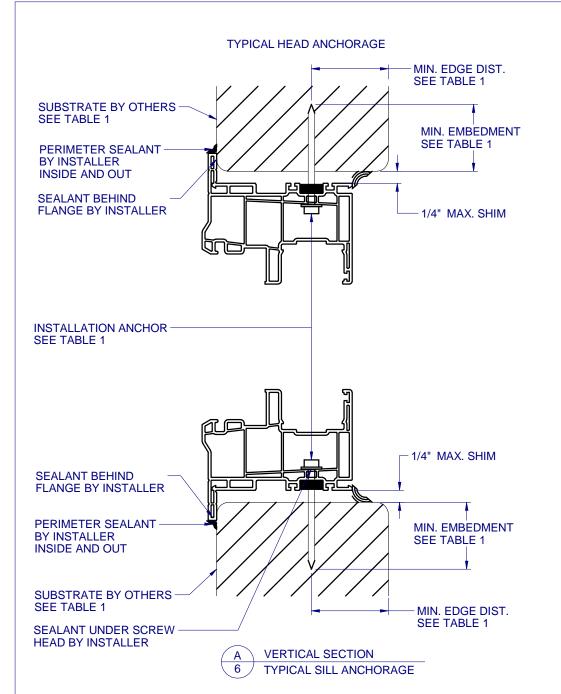
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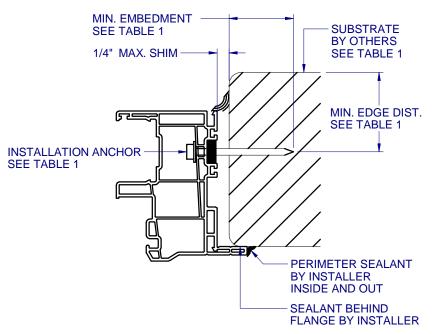
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SHEET DESCRIPTION:

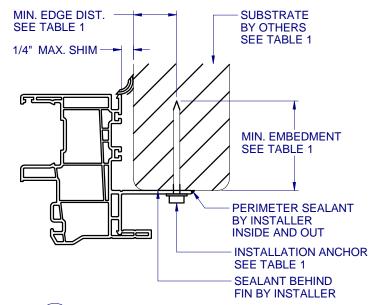
ANCHOR SCHEDULE AND NOTES

DRAWN BY:	DATE:
EMK	11/12/15
DWG #:	REV.:
TDI-491	-
SCALE:	SHEET
1:20	5 OF 6





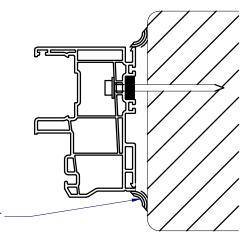
B HORIZONTAL SECTION
6 TYPICAL JAMB ANCHORAGE



HORIZONTAL SECTION
TYPICAL FIN ANCHORAGE

HEAD AND SILL SIMILAR FOR FIN INSTALLATION

NOTE: ADDITIONAL THRU-FRAME ANCHORS (AS SHOWN IN DET. B/6) REQ'D AT THE MULL, SEE SHEET 5 ANCHOR LAYOUT.



PERIMETER SEALANT BY INSTALLER INSIDE AND OUT

D HORIZONTAL SECTION

BOX FRAME INSTALLATION HEAD AND SILL SIMILAR FOR BOX INSTALLATION

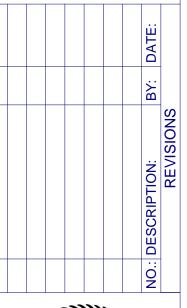
FLANGE REMOVAL NOTE: PARTIALLY OR FULLY REMOVING THE FLANGE, UP TO AND INCLUDING A BOX-FRAME APPLICATION IS ACCEPTABLE PROVIDED

- 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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SHEET DESCRIPTION:

INSTALLATION DETAILS

:	DRAWN BY:	DATE:
	EMK	11/12/15
	DWG #:	REV.:
	TDI-491	-
	SCALE:	SHEET
	1:2	6 OF 6

