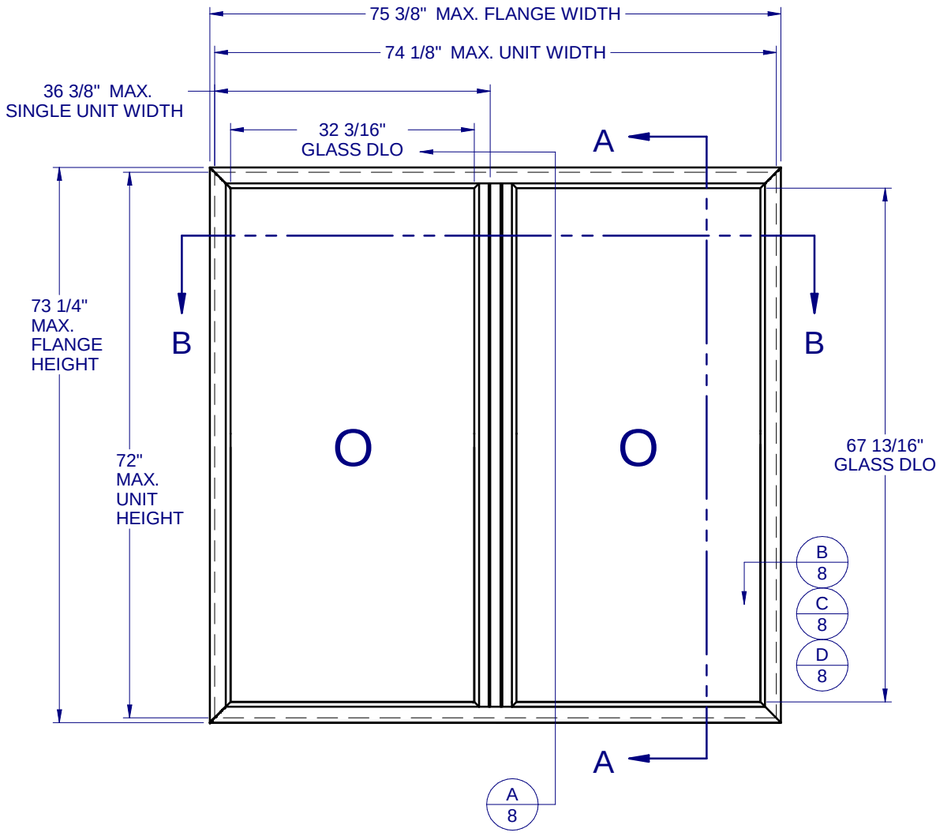
MODEL 8150 SYSTEM 3
PICTURE WINDOW - NON-IMPACT



SYSTEM 3 (CAR 138-495)

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/O".
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 FULLY WELDED. SMALL JOINT SEAM SEALANT USED AT INTERNAL MULL.
7. SERIES / MODEL DESIGNATION PW-8150 CONTINUOUS FRAME.
8. THE DESIGNATION X AND O STAND FOR THE FOLLOWING:
   O = FIXED SASH
9. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.

Lucas A. Turner
2016-08-19 17:39-04:00

TABLE OF CONTENTS

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

8150 PVC PICTURE WINDOW NON-IMPACT

NO.:	DESCRIPTION:	BY:	DATE:
A	REVISED TO TDI REQUEST	JML	8/2/16

REVISIONS

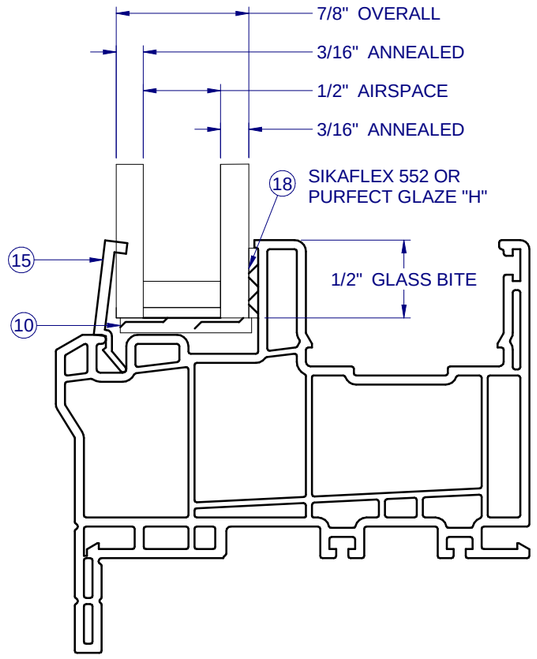
STATE OF TEXAS
LUCAS A. TURNER
115094
LICENSED
PROFESSIONAL ENGINEER

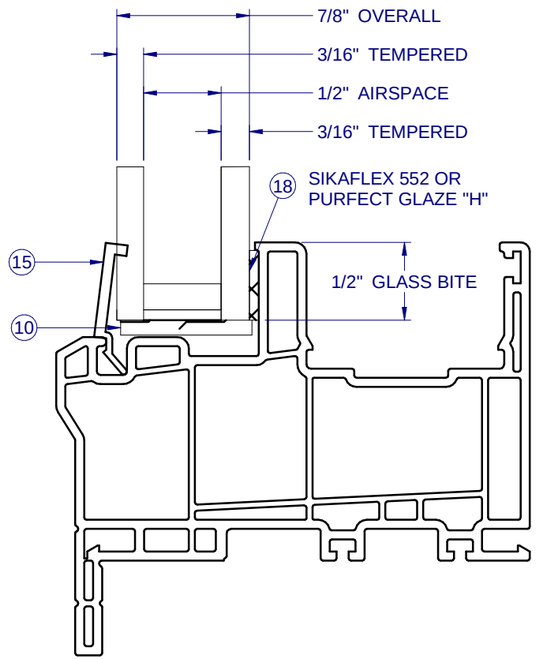
8/19/2016

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	11/11/15
DWG #:	REV.:
TDI-511	-
SCALE:	SHEET
1:25	1 OF 6





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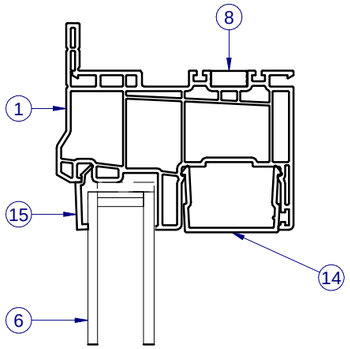
SHEET DESCRIPTION:
GLAZING DETAILS

DRAWN BY:	DATE:
EMK	11/11/15
DWG #:	REV.:
TDI-511	-
SCALE:	SHEET
1:1	2 OF 6



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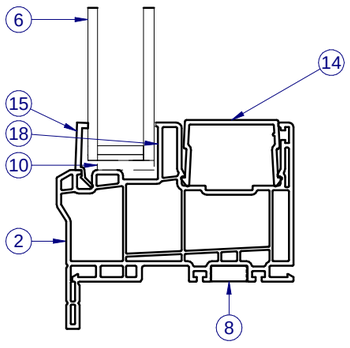
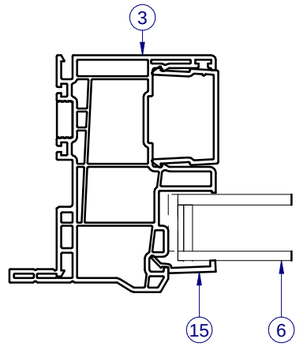


SECTION VIEW A-A



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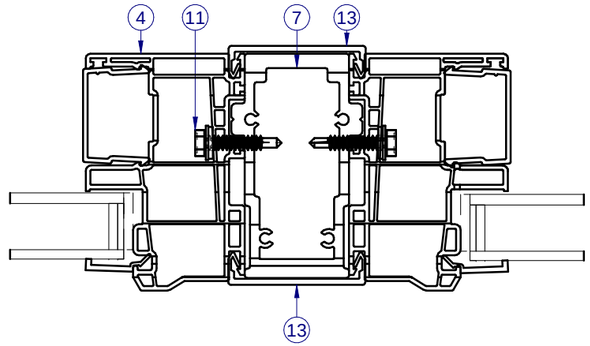
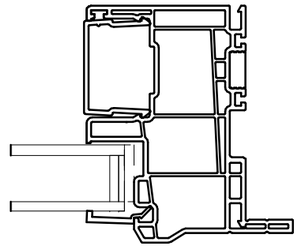
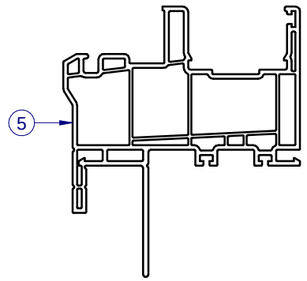


SECTION VIEW B-B





ALTERNATE FIN FRAME

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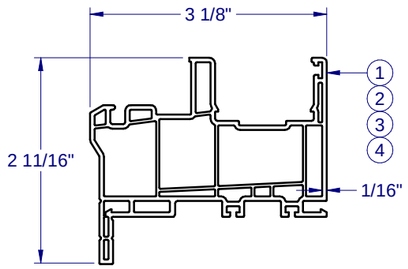
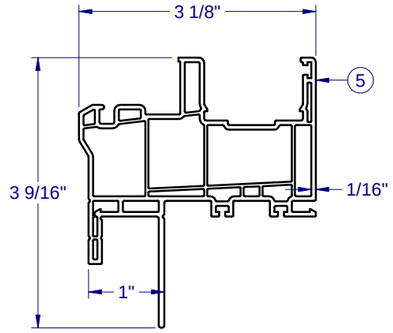
SHEET DESCRIPTION:
SECTION VIEWS

DRAWN BY:	DATE:
EMK	11/11/15
DWG #: TDI-511	REV.: -
SCALE: 1:2	SHEET 3 OF 6

PARTS LIST				
ITEM	PART #	DESCRIPTION	VENDOR	MATERIAL
1	H-6031	Frame Head, Flg,	Mikron	PVC
2	H-6031	Frame Sill, Flg,	Mikron	PVC
3	H-6031	Frame Jamb, Flg,	Mikron	PVC
4	H-6031	Internal Fr.,Jb.	Mikron	PVC
5	H-6026	Frame, Fin	Mikron	PVC
6	GLASS	SEE SHEET 2		
7	H-1727	Internal Mullbar	Keymark	Alum
8	P-3113	Screw Support, PVC	Team Plastics	Nylon
9	P-3342	Seam Sealer, SM-5504	Schnee	
10	P-3352	Set. Blk. 1/8" x 5/8" x 2"	Frank Lowe	Rubber
11	P-3767	#10 x 1 Hex Head Tek	Fastenal	Steel
12	P-4638	#8 x 2 1/4 Square Modified Truss	Fastenal	Steel
13	S-6018	Mullbar Cover	Mikron	PVC
14	S-6025	Sash Stop / Filler	Mikron	PVC
15	S-6064	Glazing Bead	Mikron	PVC
16		#10 x 1 1/2" Panhead SMS	Fastenal	Steel
17		Flat Washer	Fastenal	Steel
18		SikaFlex 552 or Purfect Glaze "H"	Sika/Henkel	

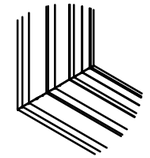


PVC FRAME FLANGE
H-6031

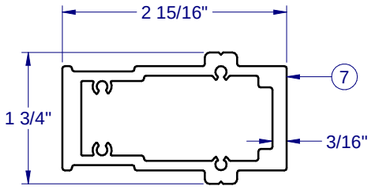


PVC FRAME FIN
H-6026

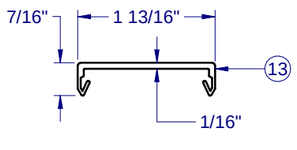
FRAME CORNER CONSTRUCTION



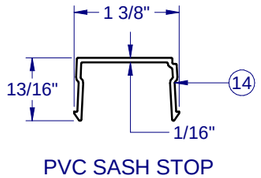
CORNER WELD
(ALL SIDES)
1:8



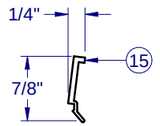
INTERNAL MULL BAR
H-1727



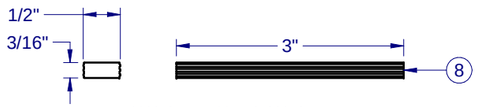
PVC MULLBAR COVER
S-6018



PVC SASH STOP
S-6025



PVC GLAZEBEAD
S-6064



SCREW SUPPORT
P-3113

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

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SHEET DESCRIPTION:
BOM AND EXTRUSIONS

DRAWN BY:	DATE:
EMK	11/11/15
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SCALE:	SHEET
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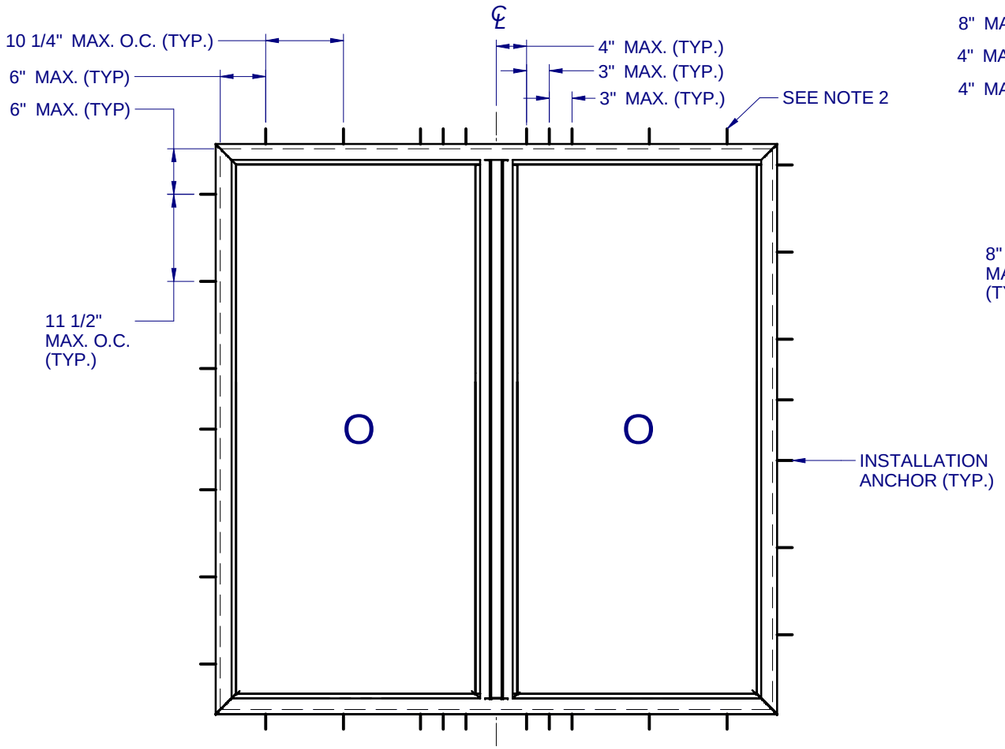
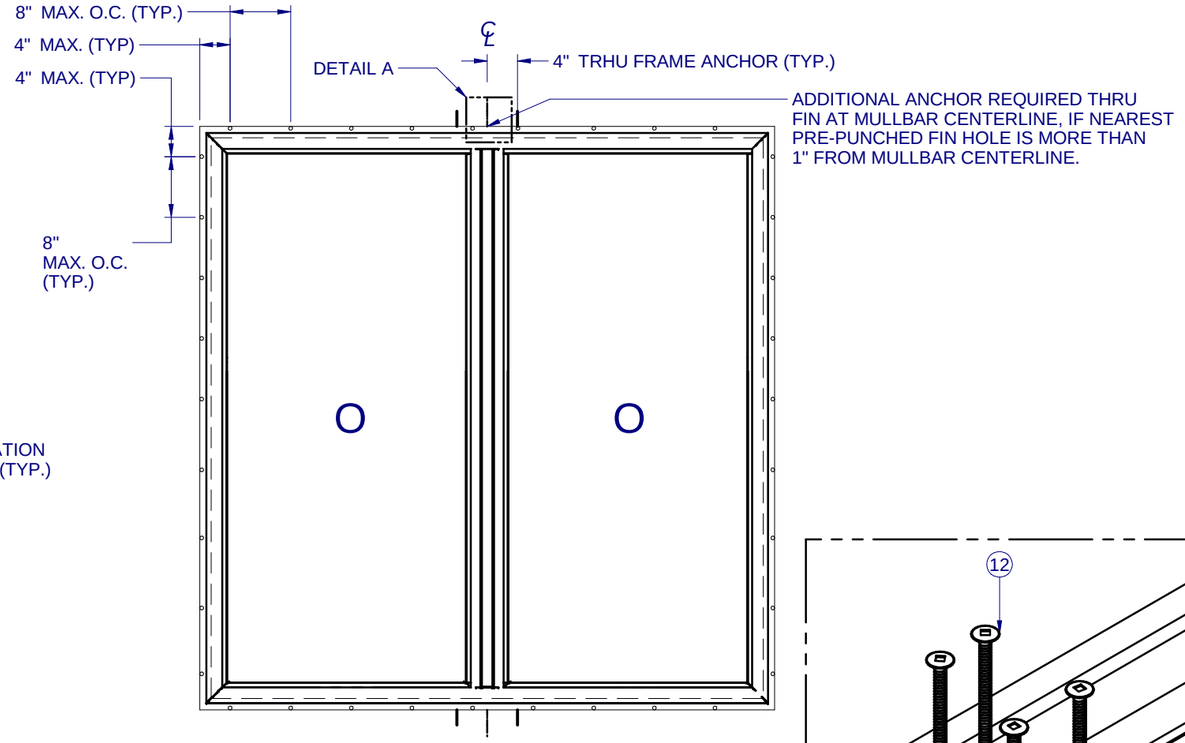
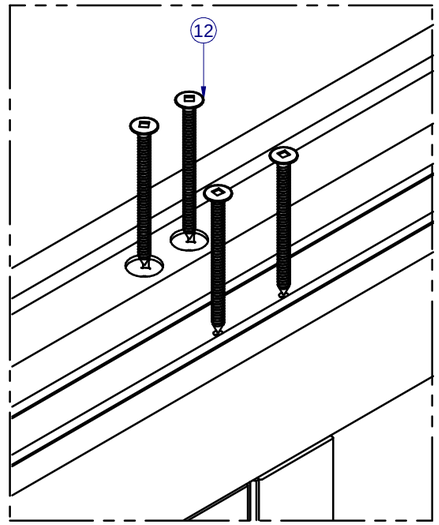


ANCHOR LAYOUT - (FLANGE)



ANCHOR LAYOUT - (FIN)



DETAIL A
INTERNAL MULL ATTACHMENT

NOTES:

1. INSTALL ONE ANCHOR AT EACH INSTALLATION LOCATION. SILL ANCHOR SPACING SAME AS HEAD. SEAL CORNERS AND INTERNAL MULL WITH SMALL JOINT SEAM SEALANT.
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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8150 PVC PICTURE WINDOW NON-IMPACT

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SHEET DESCRIPTION:
ANCHOR SCHEDULE AND NOTES
O/O

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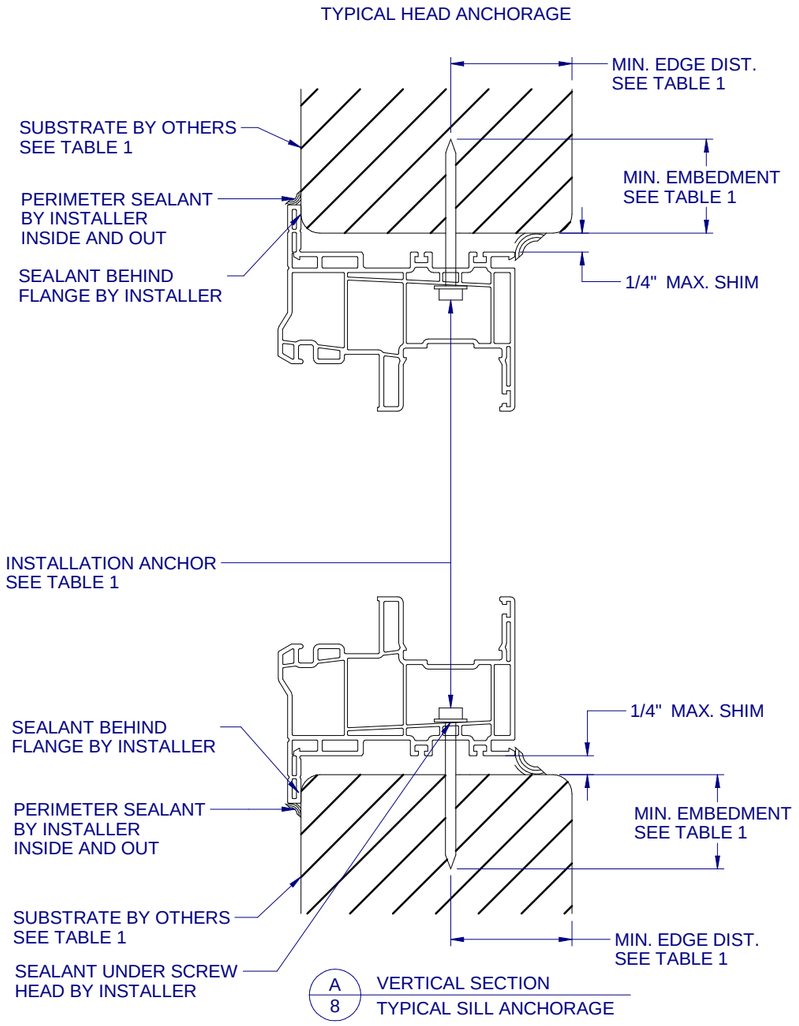
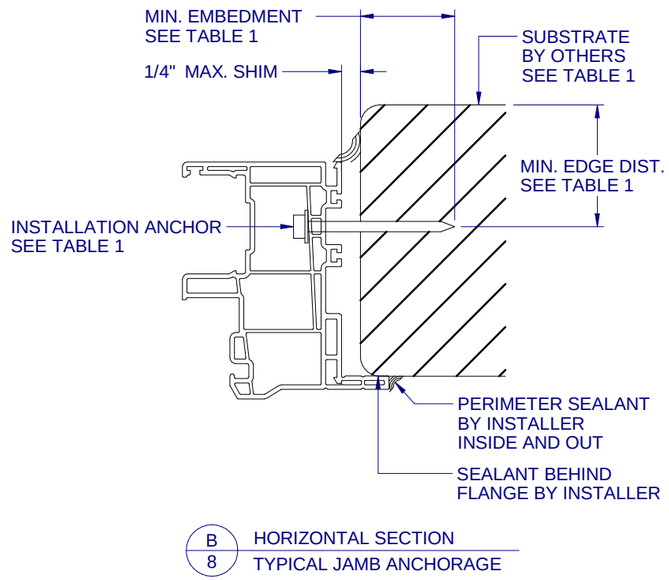
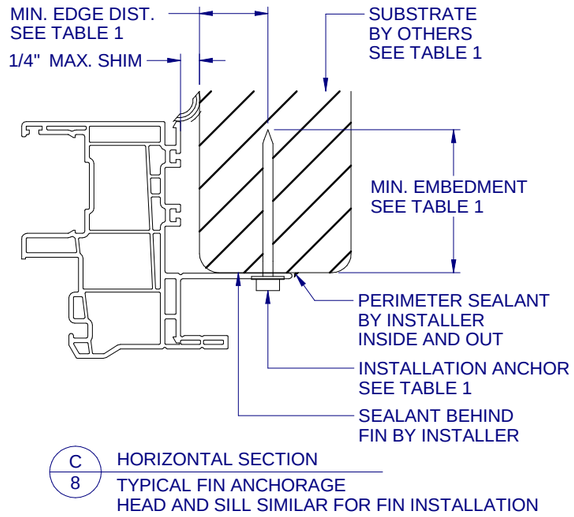
SCALE:	SHEET
1:20	5 OF 6



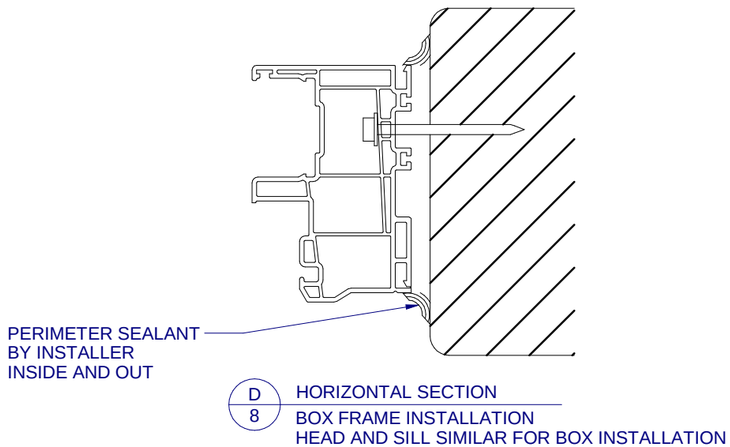




NOTE: ADDITIONAL THRU-FRAME ANCHORS (AS SHOWN IN DET. A/8) REQ'D AT HEAD AND SILL AT MULLION FOR O/O UNITS, SEE SHEET 6 ANCHOR LAYOUT.

TABLE 1: APPROVED INSTALLATION FASTENERS

FRAME TYPE	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DIST.
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 (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 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"



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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1:2	6 OF 6