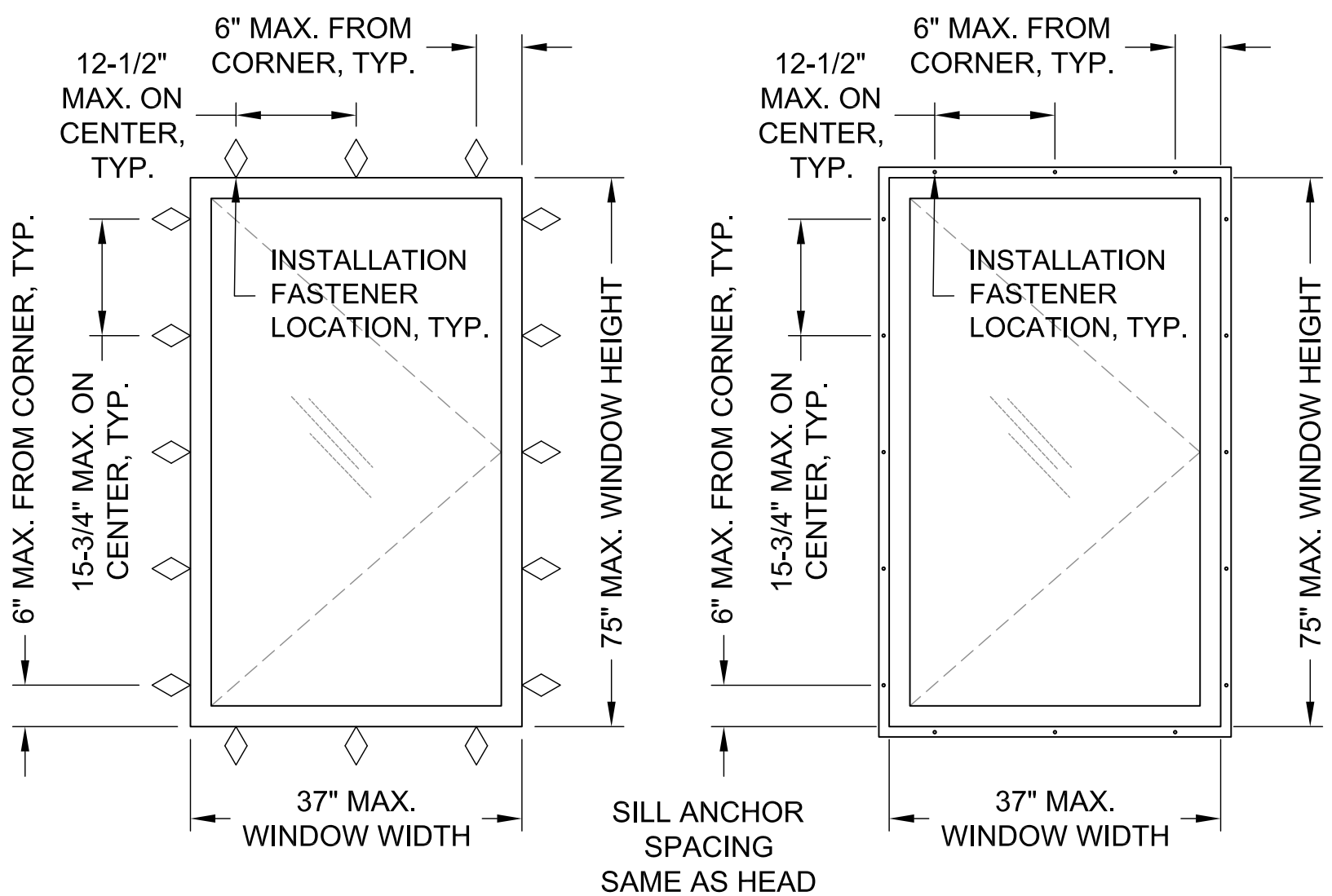


GENERAL NOTES

1. THE PRODUCT SHOWN HEREIN CONSTRUCTED FROM DECEUNINCK EXTRUDED RIGID PVC FRAMES HAS BEEN TESTED TO AAMA/WDMA/CSA 101/I.S.2/A440, AND MEETS THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE AND INTERNATIONAL RESIDENTIAL CODE.
2. THIS PRODUCT IS NON-IMPACT RESISTANT AND REQUIRES THE USE OF IMPACT PROTECTIVE DEVICES (SHUTTERS) IN WINDBORNE DEBRIS REGIONS.
3. THE DESIGN PRESSURES INDICATED IN THIS DRAWING ARE AS LIMITED BY ASTM E-1300 GLASS TABLES, AND TESTED WATER AND STRUCTURAL PRESSURES.
4. THIS DOCUMENT ADDRESSES PRODUCT ANCHORAGE TO ACHIEVE THE INDICATED DESIGN PRESSURES AT THE INDICATED SIZES, IN THE CONFIGURATION SHOWN IN THE ELEVATIONS. INSTALL PRODUCTS WITH MAXIMUM SHIM GAP, MINIMUM EDGE DISTANCE AND EMBEDMENT, AND WITH FASTENER TYPE AS SHOWN IN THE DETAILS AND AS INDICATED IN TABLE 1. FOR FULL PRODUCT CONSTRUCTION DETAILS SEE NCTL TEST REPORTS 210-4066-01, 210-4066-01A, 210-4066-02, AND 210-4066-02A
5. INSTALLED GLAZING SHALL MEET ASTM E-1300 FOR THE APPLICABLE DESIGN PRESSURES AND WINDOW SIZE. MINIMUM GLAZING FOR LARGEST APPROVED SIZE/PRESSURES IS DUAL PANE INSULATING GLASS USING GED STAINLESS STEEL INTERCEPT SPACER WITH TWO LITES OF 1/8" TEMPERED OR TWO LITES OF 3/16" ANNEALED. GLAZE WITH GE SCS2801 SILICONE BACKBEDDING W/ 1/2" GLASS BITE. PRODUCT WAS TESTED WITH 1/8" ANNEALED DUAL-PANE I.G.
6. THE 4/3 ALLOWABLE STRESS INCREASE FACTOR (SHORT-TERM INCREASE FACTOR) HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF ANCHORAGE INTO WOOD SUBSTRATE.
7. THE OPENING SUBSTRATE MATERIALS (FRAMING, MASONRY, BUCKS) AND ATTACHMENT OF BUCKS TO THE SUBSTRATE ARE BY OTHERS AND SHALL BE VERIFIED BY THE ARCHITECT OR ENGINEER OF RECORD OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ). BUCKING, OPENINGS, & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED BY OTHERS TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE. WITH MASONRY OPENINGS, WOOD BUCKS ARE OPTIONAL.
8. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE COATED OR OTHERWISE PROTECTED TO PREVENT GALVANIC REACTIONS. WOOD BUCKS, IF USED, SHALL BE PRESSURE TREATED, WITH EITHER A TREATMENT OR COATING COMPATIBLE WITH THIS PRODUCT.
9. ALL ANCHORS USED SHALL BE OF A MATERIAL OR HAVE A COATING COMPATIBLE WITH THE PRESSURE TREATED WOOD BUCKS AND ALL OTHER WINDOW MATERIALS.
10. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, OR AS APPROVED, SIGNED, AND SEALED BY A TEXAS REGISTERED PROFESSIONAL ENGINEER ON A SITE-SPECIFIC BASIS.
11. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS AND ARE NOT ADDRESSED BY THIS DOCUMENT.
12. FOR ADDITIONAL REQUIREMENTS SEE GENERAL ANCHOR NOTES, SHEET 3.

WINFORCE OUTSWING CASEMENT WINDOW, NON-IMPACT

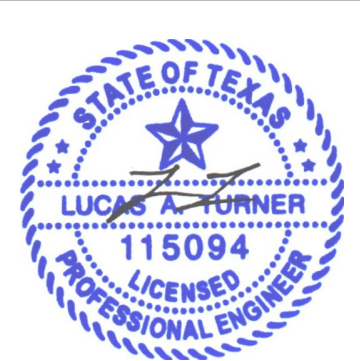


EQUAL LEG / FLANGE ELEVATION
SEE DETAILS SHEET 2

FIN ELEVATION
SEE DETAILS SHEET 3

DESIGN PRESSURE RATING	IMPACT RATING
+60/-60 PSF	NONE

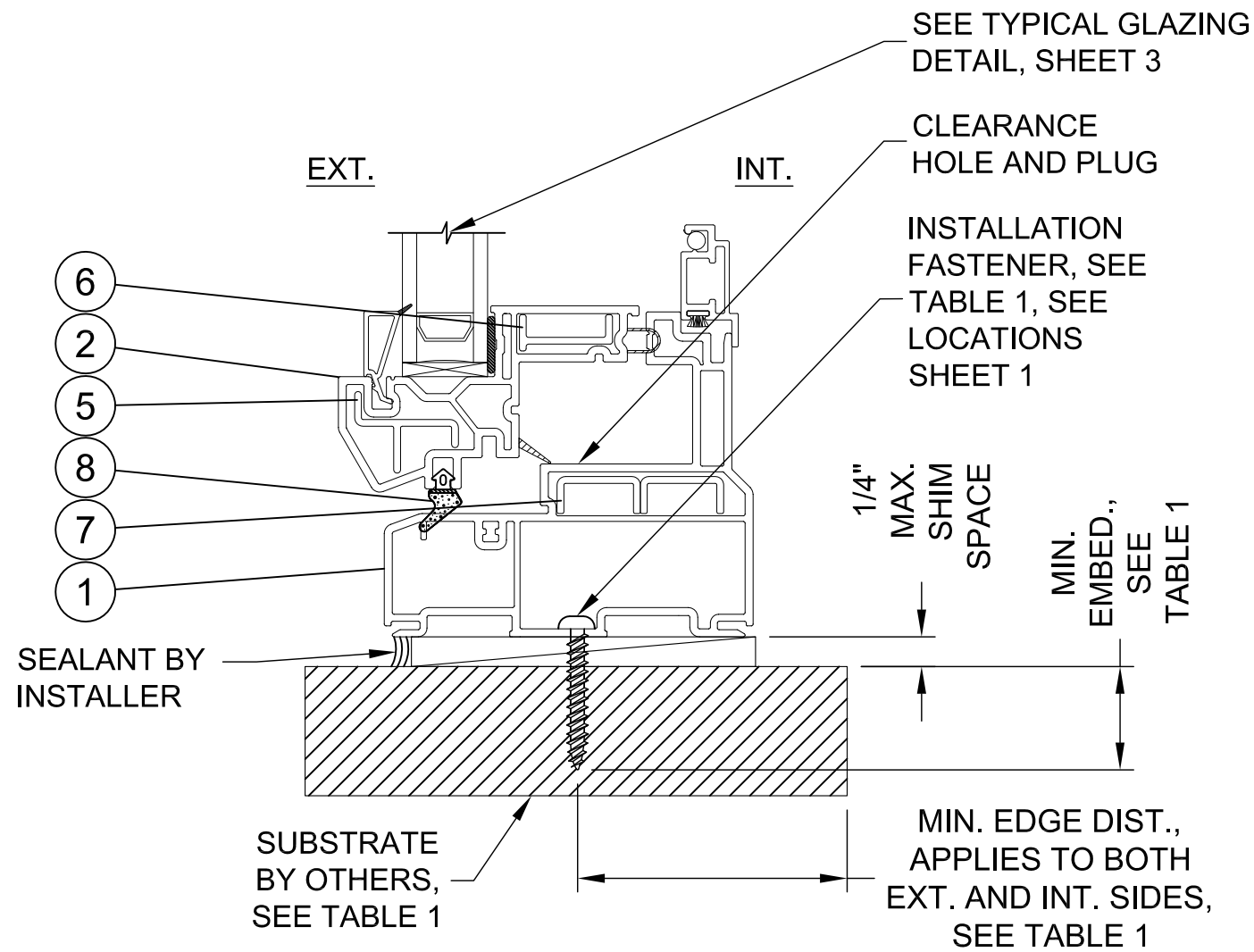
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SHEET DESCRIPTION: NOTES, ELEVATIONS	DATE DRAWN: 4/13/2017
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DRAWING: TDI-WINFORCE-CA-NI	SHEET: 1 OF 4



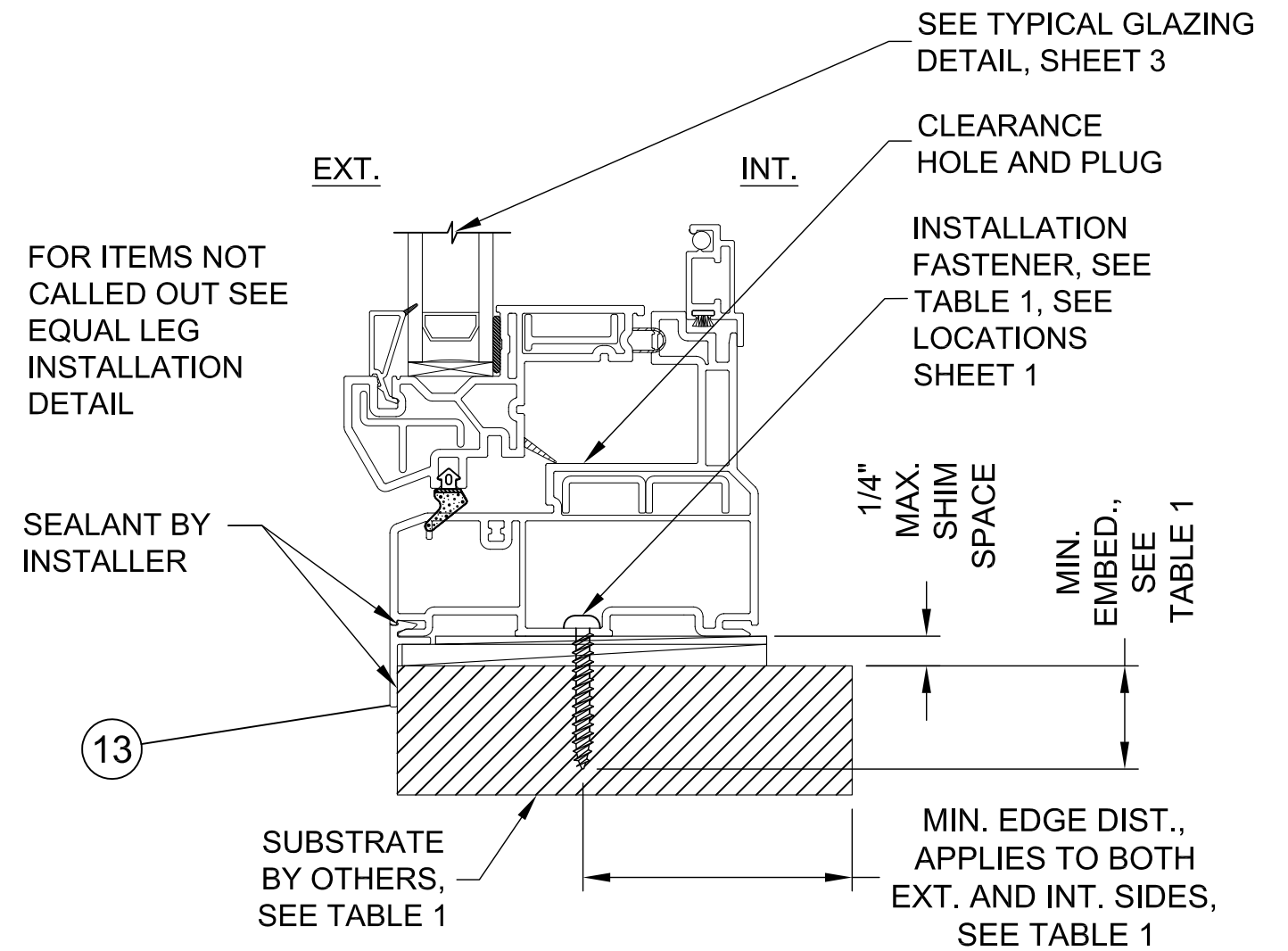
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WINFORCE OUTSWING CASEMENT WINDOW, NON-IMPACT

SEE GENERAL ANCHOR NOTES, SHEET 3.



TYPICAL EQUAL LEG INSTALLATION HEAD / SILL / JAMB



TYPICAL FLANGE INSTALLATION HEAD / SILL / JAMB

TABLE 1: EQUAL LEG / FLANGE FRAME INSTALLATION ANCHOR REQUIREMENTS TABLE
NOTE: ALL ANCHORS ARE PAN HEAD OR HEX WASHER HEAD

SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED.	MIN. EDGE DIST.
CONCRETE (2.0 KSI MIN)	3/16" ITW TAPCON	1"	1 1/8"
HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"
CONCRETE (2.85 KSI MIN.)	3/16" ELCO ULTRACON	1"	1"
2X MIN. SOUTHERN PINE WOOD (G=0.55)	#10 GRADE 5 WOOD SCREW	1-3/8"	1"
16 GAUGE (0.060") MIN. STEEL STUD, 33KSI YIELD MIN., OR 1/8" ALUM. 6063-T5 MIN.	#10-16 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW	FULL	1/2"

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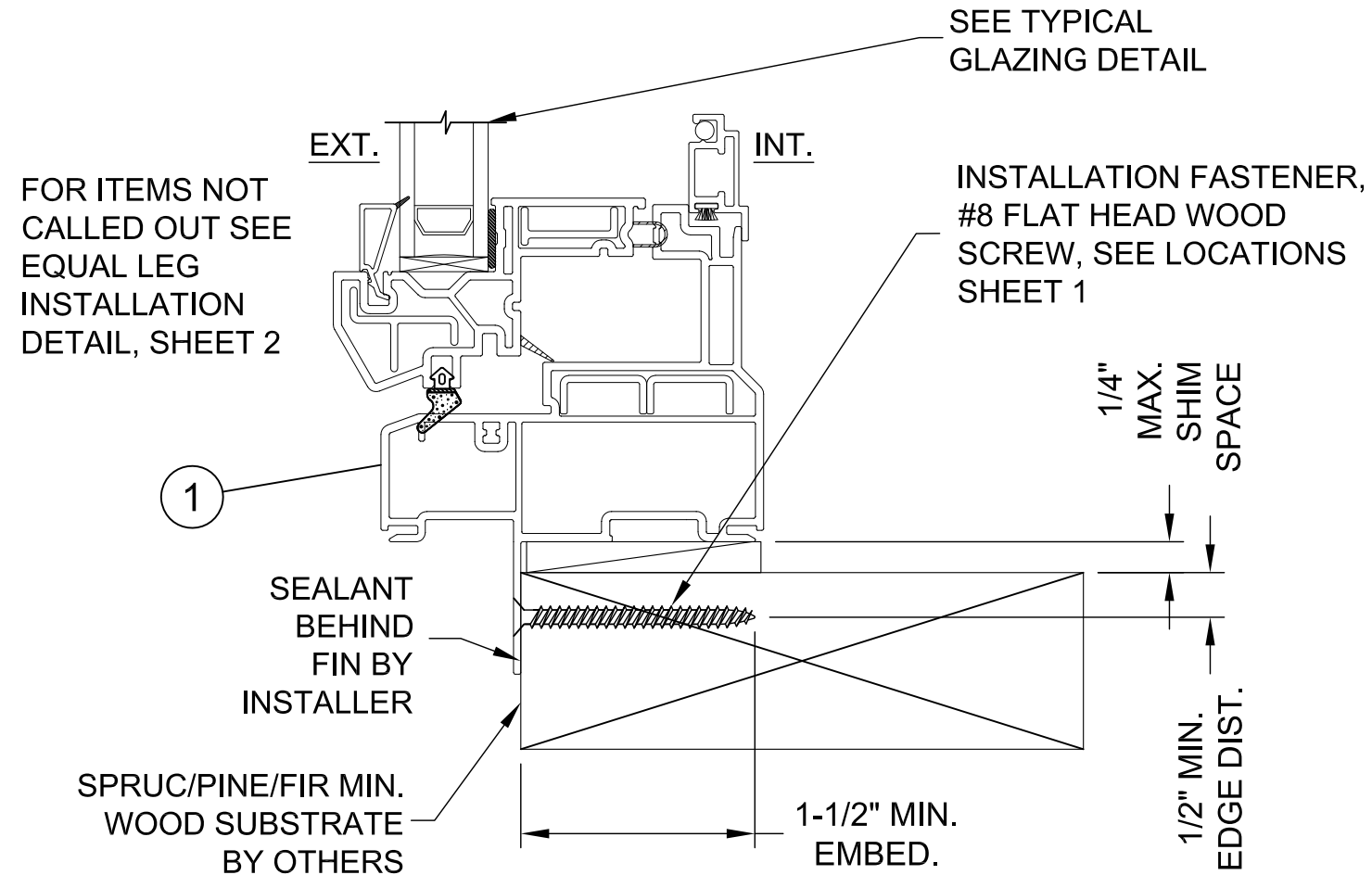
DRAWING: TDI-WINFORCE-CA-NI

SHEET: 2 OF 4

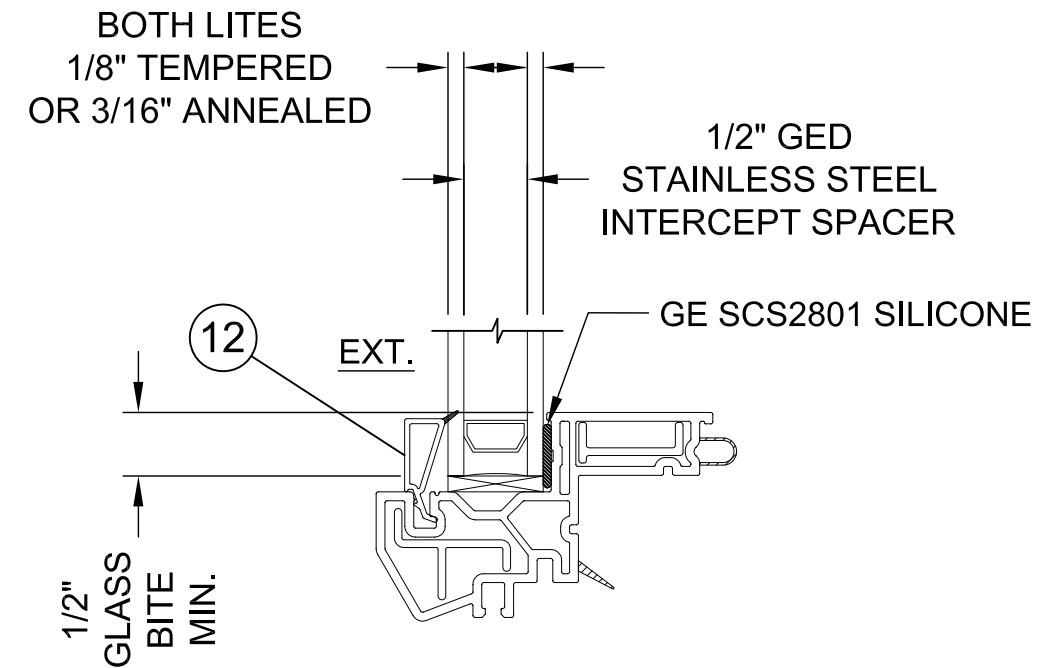


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TYPICAL FIN INSTALLATION HEAD / SILL / JAMB



TYPICAL GLAZING DETAIL

GENERAL ANCHOR NOTES:

1. INSTALL ONE ANCHOR AS INDICATED IN DETAILS ON SHEETS 2 AND 3 AT EACH LOCATION SHOWN IN THE ELEVATIONS ON SHEET 1.
2. INSTALL SHIMS AT EACH ANCHOR LOCATION WHERE A GAP OF 1/16" OR GREATER EXISTS BETWEEN PRODUCT FRAME AND SUBSTRATE.
3. SHIMS SHALL BE LOAD-BEARING (PLASTIC OR METALLIC) AND CAPABLE OF TRANSFERRING LOADS TO SUBSTRATE.
4. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO, BY OTHERS. FOR ATTACHMENT TO METAL SUBSTRATES ENSURE FULL THREAD ENGAGEMENT THROUGH METAL WALL WITH MIN. 3 THREADS BEYOND.
5. FOR MASONRY WITH WOOD BUCKS LESS THAN 1-1/2" THICK, EMBEDMENT SHALL BE BEYOND WOOD BUCKS AND INTO MASONRY. WOOD BUCKS ARE OPTIONAL WITH MASONRY INSTALLATIONS WHERE MASONRY EDGE DISTANCE CONDITIONS ARE MET WITH NO BUCKS. WOOD BUCKS 1-1/2" THICK OR GREATER SHALL HAVE EMBEDMENT INTO THE WOOD BUCKS.
6. ENSURE 3" MIN. ON-CENTER SPACING BETWEEN ANY TWO INSTALLATION ANCHORS.



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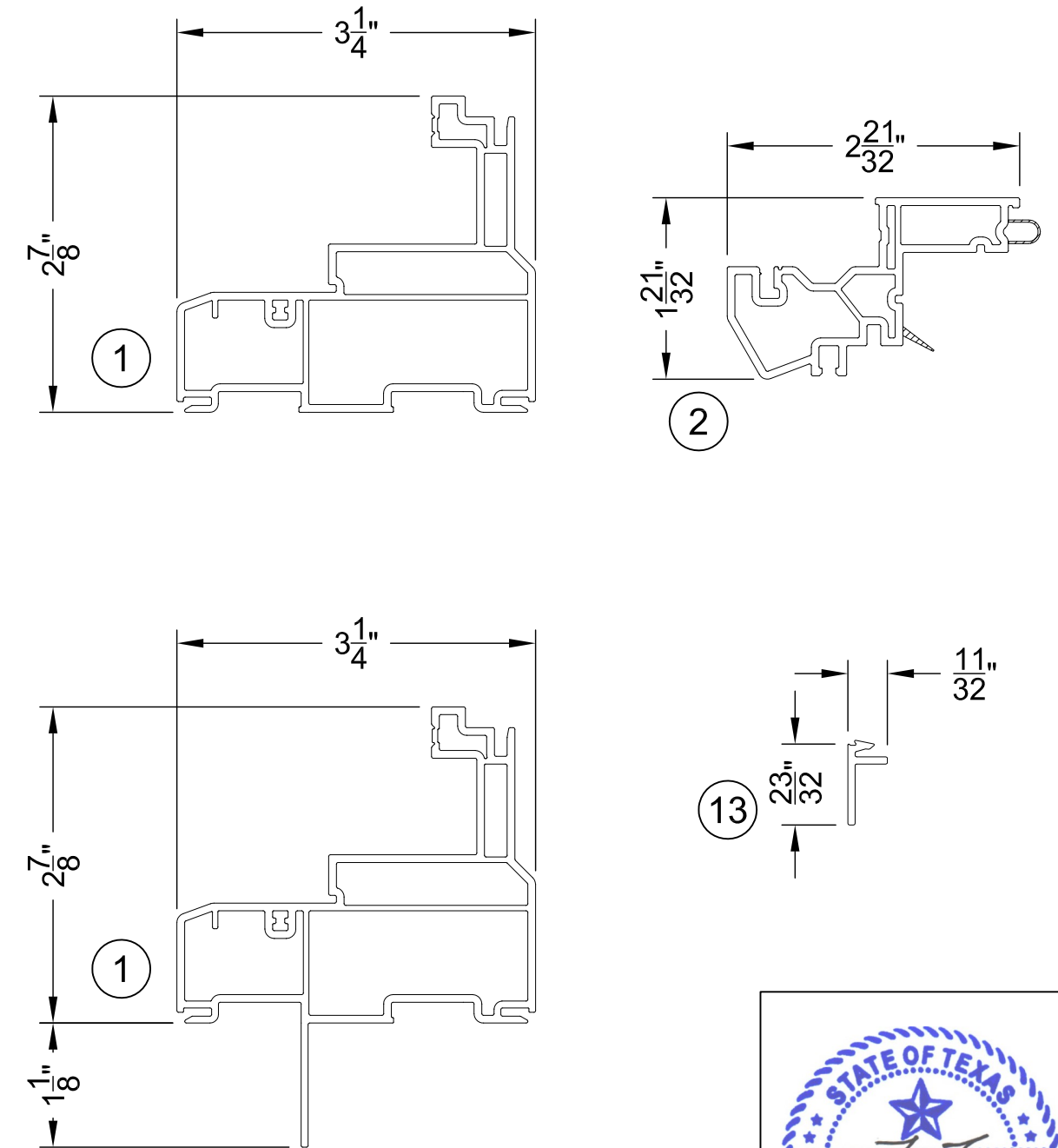
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BILL OF MATERIALS

ITEM NO.	DESCRIPTION	PART NO.	SOURCE	MATERIAL
1	FRAME HEAD/SILL/JAMBS	10008065 (FIN) / 10008066 (FINLESS)	DECEUNINCK	PVC
2	SASH RAILS/STILES	10005432	DECEUNINCK	PVC
3	GLAZING BEAD - 1" IG	10003196	DECEUNINCK	PVC
4	GLAZING BEAD - 3/4" IG	10005602	DECEUNINCK	PVC
5	SASH REINFORCEMENT	10500006	ASTRO SHAPES	6063-T5 ALUM.
6	SASH REINFORCEMENT	10300091	ASTRO SHAPES	6005-T5 ALUM.
7	FRAME REINFORCEMENT	10202004	ASTRO SHAPES	6063-T5 ALUM.
8	SASH SEAL	QWS-580	AMESBURY	FOAM/POLYETH.
9	SNUBBER - Frame	10300095	DECEUNINCK	6005-T5 ALUM.
10	SNUBBER - Sash	10300094	DECEUNINCK	6005-T5 ALUM.
11	SNUBBER SCREWS	#6 x 1/2" S.S. PFH	MERCHANTS	ST. STEEL
12	GLAZING BEAD - 3/4" IG	10005456	DECEUNINCK	PVC
13	ADD-ON FLANGE	10008341	DECEUNINCK	PVC
14	MAXIM DUAL ARM OPERATOR		ROTO	STEEL
	#8 X 3/4 PFH (Operator)			
	GASKET			
	STUD BRACKET			
	#8 X 1 PFH (Stud Bracket)			
	TRACK & SLIDER ASSEMBLY			
	#8 X 3/4 PFH			
	HANDLE KNOB S/A			
	WASHABILITY HINGES			
	#7 X 5/8 PFH UNDERCUT (S.S.)			
	#8 X 1 PFH (Hinge Sash Arm)			
	SPLINE CAP			
15	LOCK ASSEMBLY		ROTO	STEEL
	SUPPORT PLATE			
	#10-24 X 9/16 PPH SELF-THREAD			
	TIE BAR GUIDE			
	#8 X 1.25 PPH (Tie Bar Guide)			
	KEEPER			
	#8 X 1/2 PFH (Keeper)			
	TIE BAR ASSEMBLY			

WINFORCE OUTSWING CASEMENT WINDOW, NON-IMPACT



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BILL OF MATERIALS, PART DWGS

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SHEET: 4 OF 4

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