

# KAWNEER 8225TL FIXED THERMAL WINDOWS

## GENERAL NOTES

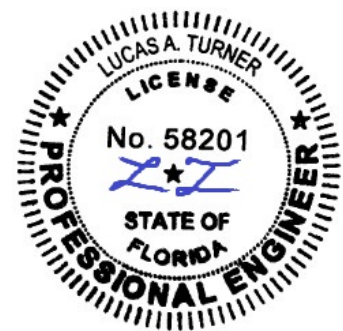
1. THIS WINDOW SYSTEM HAS BEEN TESTED TO ASTM E283, ASTM E330, ASTM E331, ASTM E1886, ASTM E1996, AND TAS 201/202/203, AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION, INCLUDING THE HIGH VELOCITY HURRICANE ZONE.
2. THE INSTALLED WINDOW SYSTEM SHALL BE FABRICATED, GLAZED, AND ANCHORED IN ACCORDANCE WITH THIS DRAWING AND APPLICABLE TEST REPORTS, OR AS INDICATED BY THE ENGINEER OF RECORD IN APPROVED SHOP DRAWINGS.
3. THIS DRAWING INDICATES VARIOUS APPROVED GLAZING METHODS AND FRAMING TYPES WHICH MAY BE USED SINGLY OR IN COMBINATION FOR EACH PROJECT. ANY NUMBER OF PANELS/WINDOWS MAY BE USED HORIZONTALLY PROVIDED THE MAXIMUM DLO SIZES AS INDICATED IN THIS DRAWING ARE NOT EXCEEDED.
4. THIS PRODUCT IS LARGE AND SMALL MISSILE IMPACT RESISTANT (SEE APPROVED GLAZING TYPES SHEET 10 OF THIS DRAWING FOR GLAZING TYPES THAT ARE APPROVED FOR LARGE AND FOR SMALL MISSILE PERFORMANCE), AND DOES NOT REQUIRE THE USE OF APPROVED SHUTTERS IN WINDBORNE DEBRIS AREAS.
5. REQUIRED DESIGN PRESSURES SHALL BE DETERMINED FOR EACH PROJECT IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS AND GOVERNING WIND SPEEDS FOR THE PROJECT LOCATION.
6. THE ALLOWABLE DESIGN PRESSURES AND LOAD CAPACITIES SHOWN IN THIS DRAWING ARE ALLOWABLE STRESS DESIGN (ASD) BASIS AND ARE AS LIMITED BY ASTM E-1300 GLASS TABLES AND TESTED PRESSURES ALTERNATE COMPARATIVE OR RATIONAL ANALYSIS CALCULATIONS COMPLIANT WITH FBC AS DEEMED APPROPRIATE ON A PROJECT BASIS BY THE ENGINEER OF RECORD ARE ACCEPTABLE.
7. DISSIMILAR MATERIALS THAT COME INTO CONTACT, INCLUDING BUT NOT LIMITED TO FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD SUBSTRATES OR ALUMINUM, SHALL BE COATED OR OTHERWISE PROTECTED PER FBC REQUIREMENTS TO PREVENT CORROSION OR GALVANIC REACTIONS.
8. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT IS NOT WITHIN THE SCOPE OF THIS APPROVAL AND SHALL BE THE RESPONSIBILITY OF OTHERS.
9. THE 4/3 ALLOWABLE STRESS INCREASE HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF WOOD SUBSTRATE.
10. STRUCTURAL INTEGRITY OF SUBSTRATE MATERIALS TO RECEIVE THE LOADS FROM THIS PRODUCT, AND INSTALLATION OF WOOD BUCKS OR OTHER ACCESSORIES TO THE SUBSTRATE, TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
11. THIS PRODUCT SHALL BE INSTALLED USING ONE OF THE APPROVED FASTENING METHODS INDICATED IN THIS DRAWING, AS APPROPRIATE FOR THE SUBSTRATE TYPE, OR AS INDICATED BY THE ENGINEER OF RECORD IN APPROVED SHOP DRAWINGS. ANCHOR SIZE, EMBEDMENT, EDGE DISTANCE, AND LOCATIONS, SHALL BE IN ACCORDANCE WITH THESE DRAWINGS OR AS INDICATED IN APPROVED SHOP DRAWINGS. ENSURE 1-1/2" MIN. CENTER-TO-SPACING BETWEEN ANY TWO INSTALLATION FASTENERS.
12. MINIMUM ANCHOR EMBEDMENTS LISTED IN THIS DRAWING SHALL BE BEYOND WALL DRESSING OR STUCCO AND FULLY INTO SUBSTRATE. LOAD-BEARING SHIMS SHALL BE USED AT ALL ANCHOR LOCATIONS WHERE A GAP OF MORE THAN 1/16" EXISTS BETWEEN THE PRODUCT AND OPENING SUBSTRATE. MAXIMUM SHIM GAP IS AS INDICATED IN THESE DRAWINGS.
13. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE 1 IN SECTION 6. CONCRETE OR MASONRY SUBSTRATES SHALL NOT BE CRACKED. FOR INSTALLATION TO METAL SUBSTRATES, ANCHORS SHALL BE LONG ENOUGH TO BE FULLY THREADED THROUGH THE METAL THICKNESS WITH AN ADDITIONAL 3/16" MIN. OF THREADS BEYOND.
14. CONSTRUCTION NOTES: THE VERTICAL FRAME MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE COPED & BUTTED TO THE VERTICAL FRAME MEMBER. THE VERTICAL MEMBERS ARE FASTENED TO THE HORIZONTAL MEMBERS WITH ANCHORS INTO SCREW SPLINES. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH KAWNEER INSTALLATION INSTRUCTIONS.

## TABLE OF CONTENTS

SHEET	DESCRIPTION
1	GENERAL NOTES
2	SAMPLE ELEVATIONS
3-4	SECTION DETAILS
5	APPROVED GLAZING TYPES, GLAZING DETAILS
6	DESIGN PRESSURE CHARTS
7	PERIMETER ANCHOR DETAILS
8	EXTRUSION PROFILES, MATERIAL PARTS LIST



555 GUTHRIDGE COURT  
NORCROSS, GEORGIA 30092  
PH. 770-449-5555  
WWW.KAWNEER.COM



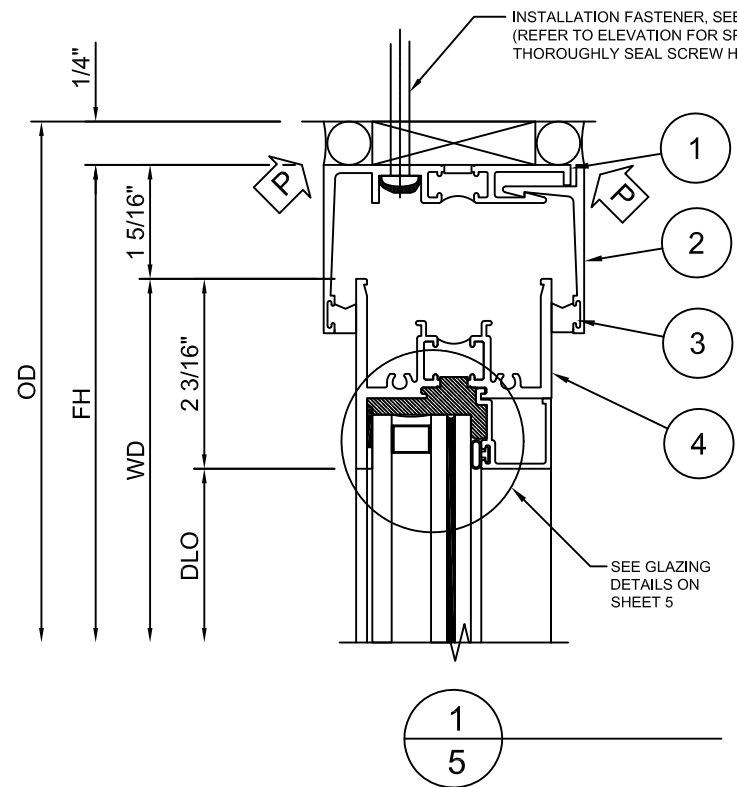
10/23/2023  
LUCAS A. TURNER  
FL P.E. #58201

TURNER ENGINEERING &  
CONSULTING, INC.  
2428 OLD NATCHEZ TRACE TRL.  
CAMDEN, TN 38320  
PH. 941-380-1574

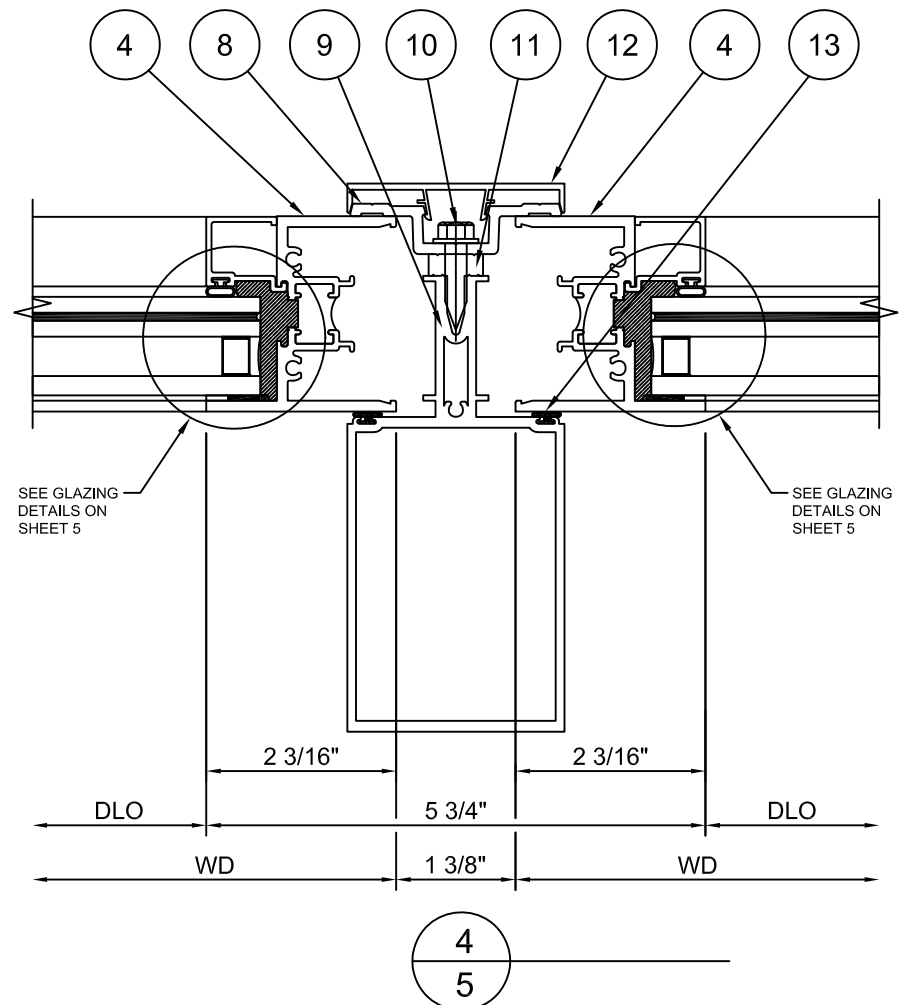
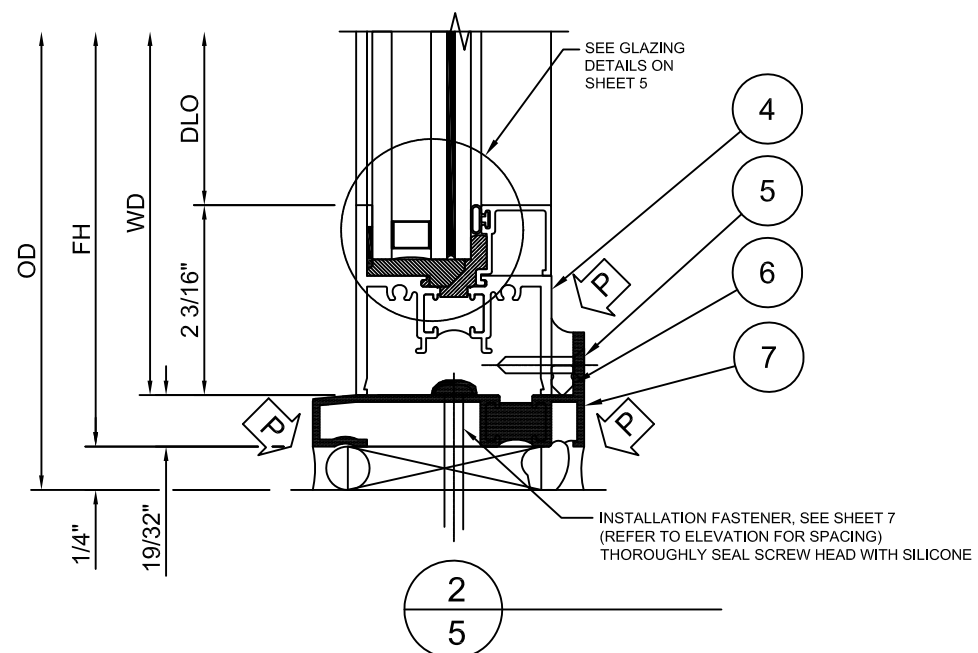
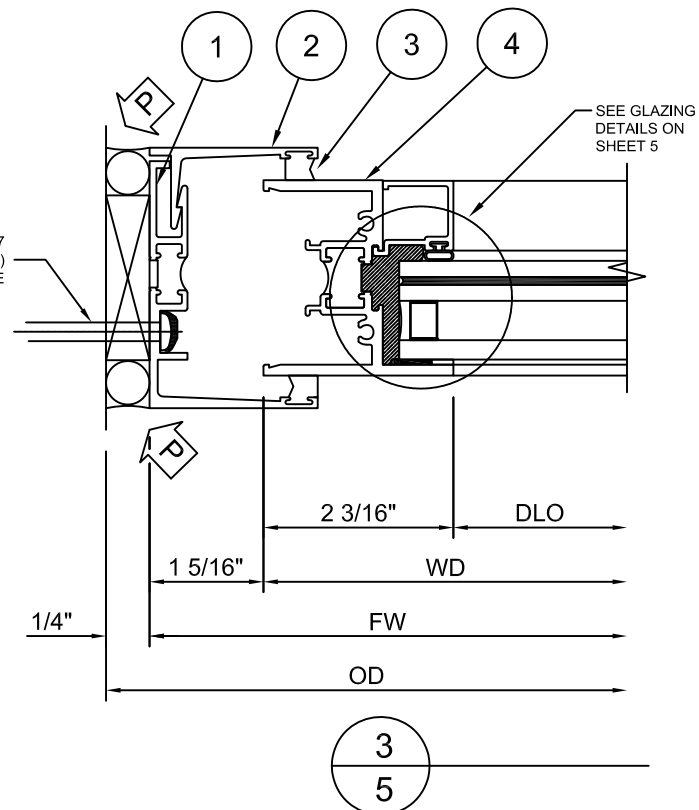
DRAWING NO. 8225TL-FX-FPA	PRODUCT 8225TL FIXED
FPA # FL44172	
DATE 10/21/2023	
SCALE NTS	SHEET 1 OF 8

10/21/2023	DATE
-	REV. #
INITIAL RELEASE	PRINTS ISSUED FOR

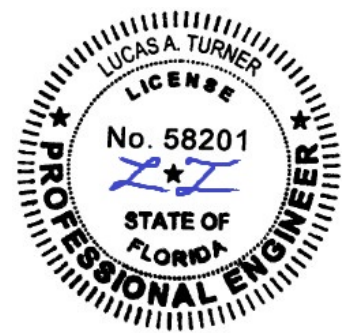




INSTALLATION FASTENER, SEE SHEET 7  
(REFER TO ELEVATION FOR SPACING)  
THOROUGHLY SEAL SCREW HEAD WITH SILICONE



555 GUTHRIDGE COURT  
NORCROSS, GEORGIA 30092  
PH. 770-449-5555  
WWW.KAWNEER.COM



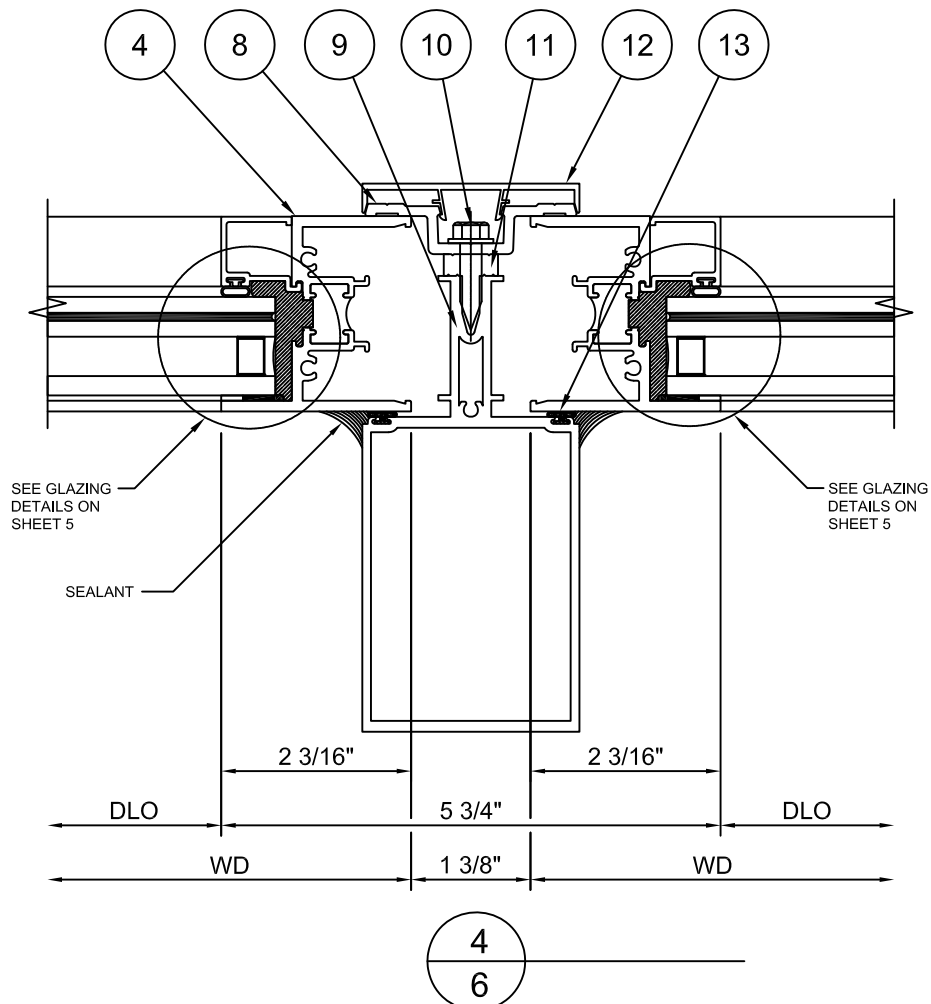
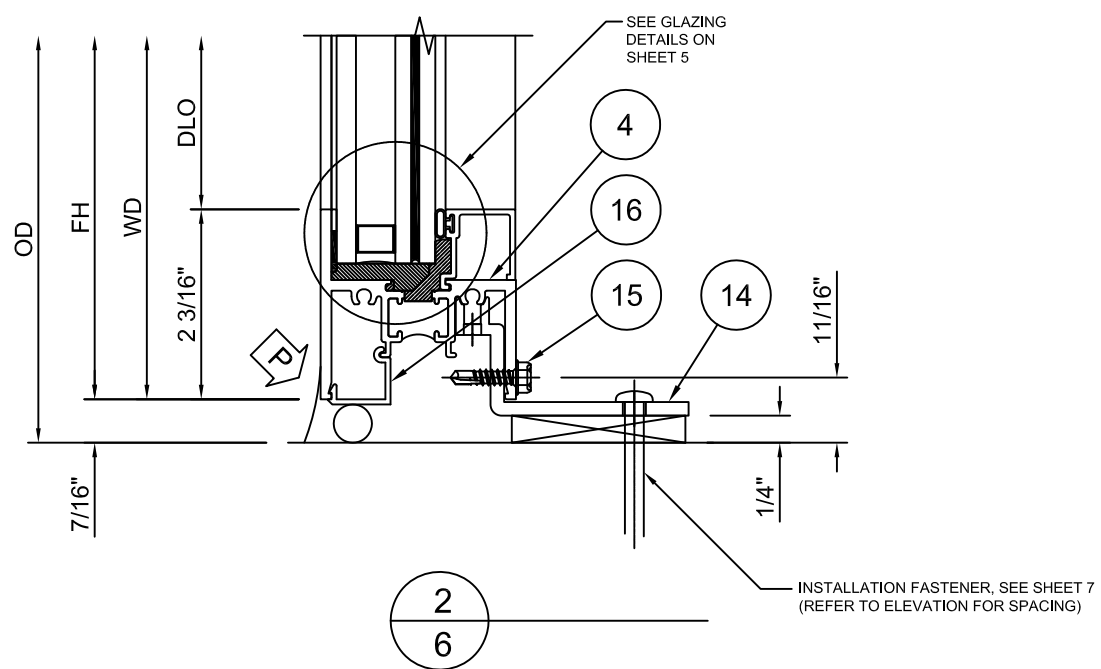
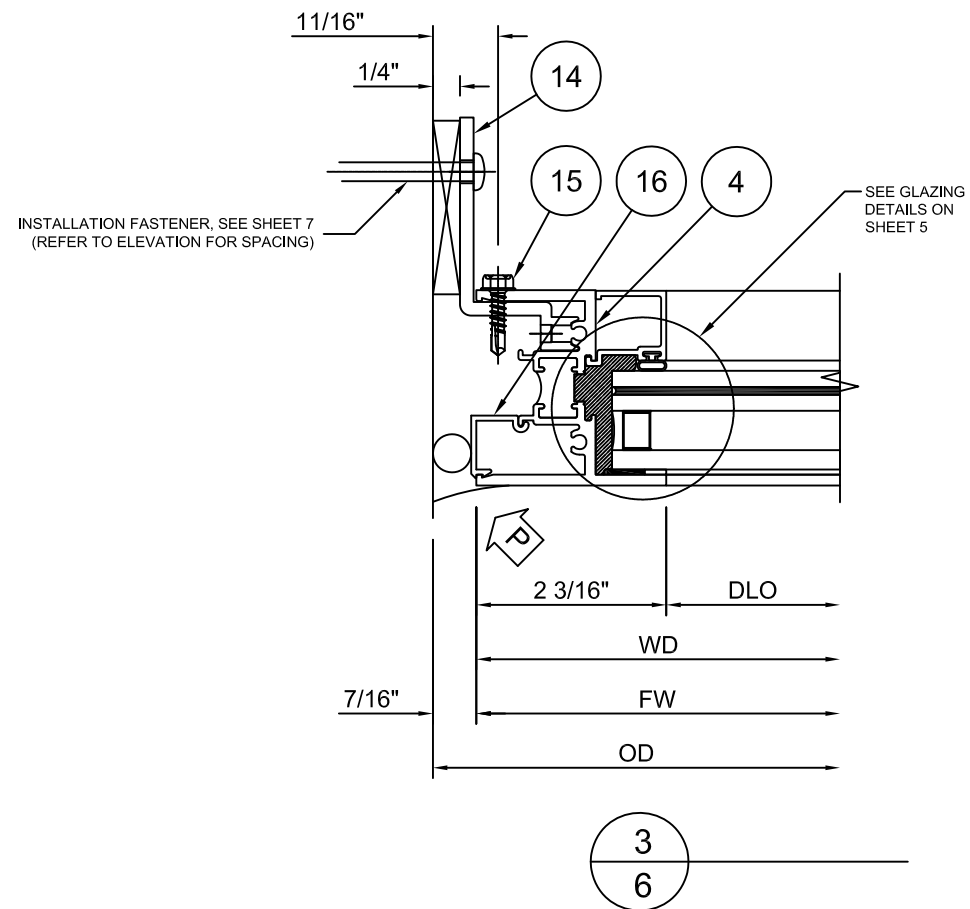
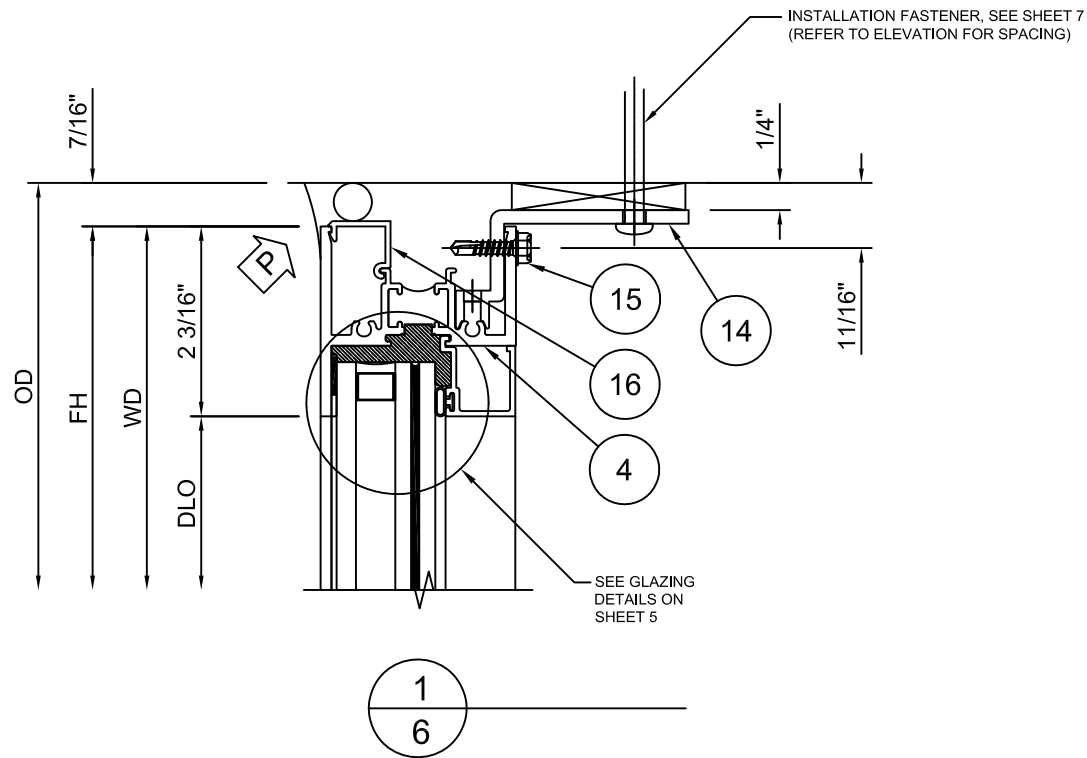
10/23/2023  
LUCAS A. TURNER  
FL P.E. #58201

TURNER ENGINEERING &  
CONSULTING, INC.  
2428 OLD NATCHEZ TRACE TRL.  
CAMDEN, TN 38320  
PH. 941-380-1574

DRAWING NO. 8225TL-FX-FPA	PRODUCT 8225TL FIXED
FPA # FL44172	
DATE 10/21/2023	
SCALE NTS	SHEET 3 OF 8



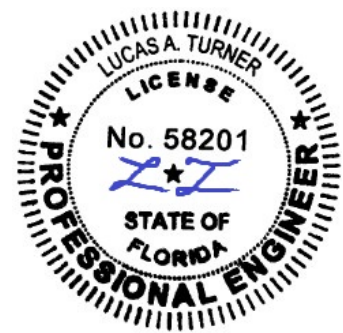
10/21/2023	DATE
-	REV. #
INITIAL RELEASE	PRINTS ISSUED FOR



PERIMETER SEALS  
(BY OTHERS)

**KAWNEER**

555 GUTHRIDGE COURT  
NORCROSS, GEORGIA 30092  
PH. 770-449-5555  
WWW.KAWNEER.COM



10/23/2023  
LUCAS A. TURNER  
FL P.E. #58201

TURNER ENGINEERING &  
CONSULTING, INC.  
2428 OLD NATCHEZ TRACE TRL.  
CAMDEN, TN 38320  
PH. 941-380-1574

DRAWING NO. 8225TL-FX-FPA	PRODUCT 8225TL FIXED
FPA # FL44172	
DATE 10/21/2023	
SCALE NTS	SHEET 4 OF 8

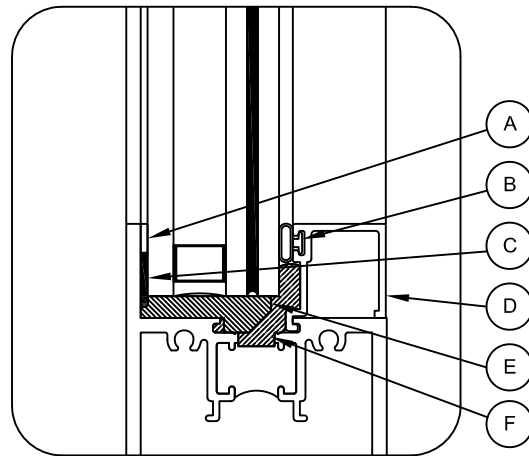
10/21/2023	DATE
-	REV. #
INITIAL RELEASE	PRINTS ISSUED FOR



## APPROVED GLAZING TYPES

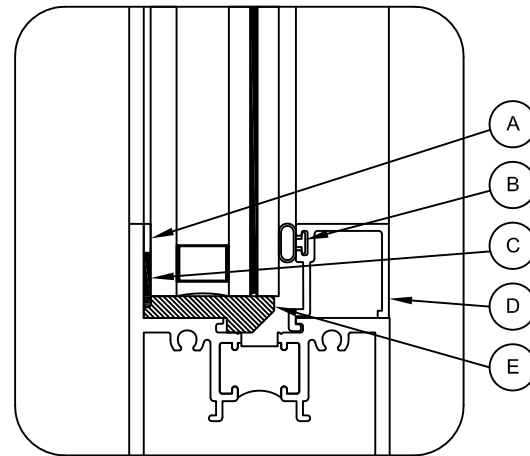
MISSILE RATING	TYPE	NOMINAL THICKNESS	DESCRIPTION	MISSILE RATING	TYPE	NOMINAL	DESCRIPTION
LARGE AND SMALL MISSILE	1	1-1/8" (1.125")	1/4" FT OUTBOARD, 7/16" AIR SPACER, 3/16" HS INBOARD, 0.090 KURARAY SG, 3/16" HS INBOARD - WET GLAZE	SMALL MISSILE ONLY	2	1-1/8" (1.125")	1/4" FT OUTBOARD, 7/16" AIR SPACER, 3/16" HS INBOARD, 0.060 KURARAY PVB, 3/16" HS INBOARD - DRY GLAZE
					3	1-1/8" (1.125")	1/4" FT OUTBOARD, 7/16" AIR SPACER, 3/16" HS INBOARD, 0.060 EASTMAN SAFLEX PVB, 3/16" HS INBOARD - DRY GLAZE

**GLAZING DETAIL:  
LARGE AND SMALL  
MISSILE IMPACT  
GLASS TYPE 1**



- A 127186 GLAZING TAPE
- B 127074 BULB WEATHERING  
(SHORE "A" 65±5 DUROMETER TAPE)
- C BACK BEDDING SILICONE, SEE TABLE BELOW \*
- D 224166 GLASS BEAD
- E 127106 SETTING BLOCK (SILL ONLY)
- F STRUCTURAL SILICONE, SEE TABLE BELOW \*\*

**GLAZING DETAIL:  
SMALL MISSILE IMPACT  
GLASS TYPE 2 & 3**



- A 127186 GLAZING TAPE
- B 127074 BULB WEATHERING  
(SHORE "A" 65±5 DUROMETER TAPE)
- C BACK BEDDING SILICONE, SEE TABLE BELOW \*
- D 224166 GLASS BEAD
- E 127106 SETTING BLOCK (SILL ONLY)

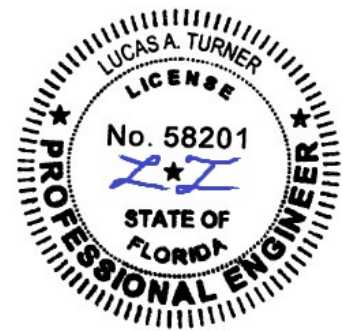
- GLAZING NOTES:**  
 1) INFILL SIZE FORMULA DLO + 1 1/4" UNLESS OTHERWISE NOTED.  
 2) SETTING BLOCKS FBC 2411.3.3.1 COMPLIANT

## APPROVED BACKBEDDING / STRUCTURAL SILICONE

DESIGNATION	GLASS TYPE	IMPACT RATING	* BACK BEDDING SILICONE	** STRUCTURAL SILICONE
BB1	1	LMI OR SMI	RGS7700 RAPIDSTRENGTH	SCS2000 SILPRUF
BB2	1	LMI OR SMI	DOWSIL 995	DOWSIL 995
BB3	1	LMI OR SMI	TREMCO PROGLAZE SSG	TREMCO PROGLAZE SSG
BB4	1	LMI OR SMI	SCS2000 SILPRUF	SCS2000 SILPRUF
BB5	2 3	SMI	RGS7700 RAPIDSTRENGTH	NONE REQ'D
BB6	2 3	SMI	DOWSIL 995	NONE REQ'D
BB7	2 3	SMI	TREMCO PROGLAZE SSG	NONE REQ'D
BB8	2 3	SMI	SCS2000 SILPRUF	NONE REQ'D



555 GUTHRIDGE COURT  
NORCROSS, GEORGIA 30092  
PH. 770-449-5555  
WWW.KAWNEER.COM



10/23/2023  
LUCAS A. TURNER  
FL P.E. #58201

TURNER ENGINEERING &  
CONSULTING, INC.  
2428 OLD NATCHEZ TRACE TRL.  
CAMDEN, TN 38320  
PH. 941-380-1574

DRAWING NO. 8225TL-FX-FPA	PRODUCT 8225TL FIXED
FPA # FL44172	SHEET 5 OF 8
DATE 10/21/2023	
SCALE NTS	

10/21/2023  
REV. #  
-  
INITIAL RELEASE  
PRINTS ISSUED FOR

8225TL FIXED WINDOW DP CHART (ALLOWABLE DESIGN PRESSURES), STRAP ANCHORAGE

APPROVED GLASS TYPE(S) (SEE SHT 5)	APPROVED BACKBEDDING/ STRUCTURAL SILICONE TYPE(S) (SEE SHT 5)	IMPACT RATING	DIMENSIONS				DESIGN PRESSURE  (+/- psf)	HEAD/SILL MAX. O.C. ANCHOR SPACING  (in.)	JAMB MAX. O.C. ANCHOR SPACING  (in.)
			MAX. WINDOW WIDTH (in.)	MAX. D.L.O. WIDTH (in.)	MAX. WINDOW HEIGHT (in.)	MAX. D.L.O. HEIGHT (in.)			
1	BB1, BB2, BB3, BB4	LARGE AND SMALL MISSILE	62	57-5/8	101	96-5/8	60	16-1/2	17-13/16
1	BB1	LARGE AND SMALL MISSILE	36	31-5/8	101	96-5/8	90	23-7/16	17-13/16
2 OR 3	BB5, BB6, BB7, BB8	SMALL MISSILE	62	57-5/8	101	96-5/8	60	16-1/2	17-13/16
2 OR 3	BB5	SMALL MISSILE	36	31-5/8	101	96-5/8	90	23-7/16	17-13/16

8225TL FIXED WINDOW DP CHART (ALLOWABLE DESIGN PRESSURES), RECEPTOR/SUBSILL ANCHORAGE

APPROVED GLASS TYPE(S) (SEE SHT 5)	APPROVED BACKBEDDING/ STRUCTURAL SILICONE TYPE(S) (SEE SHT 5)	IMPACT RATING	DIMENSIONS				DESIGN PRESSURE  (+/- psf)	HEAD/SILL MAX. O.C. ANCHOR SPACING  (in.)	JAMB MAX. O.C. ANCHOR SPACING  (in.)
			MAX. WINDOW WIDTH (in.)	MAX. D.L.O. WIDTH (in.)	MAX. WINDOW HEIGHT (in.)	MAX. D.L.O. HEIGHT (in.)			
1	BB1, BB2, BB3, BB4	LARGE AND SMALL MISSILE	62	57-5/8	101	96-5/8	60	16-15/16	18-3/16
1	BB1	LARGE AND SMALL MISSILE	36	31-5/8	101	96-5/8	90	24-3/4	18-3/16
2 OR 3	BB5, BB6, BB7, BB8	SMALL MISSILE	62	57-5/8	101	96-5/8	60	16-15/16	18-3/16
2 OR 3	BB5	SMALL MISSILE	36	31-5/8	101	96-5/8	90	24-3/4	18-3/16

**KAWNEER**  
555 GUTHRIDGE COURT  
NORCROSS, GEORGIA 30092  
PH. 770-449-5555  
WWW.KAWNEER.COM

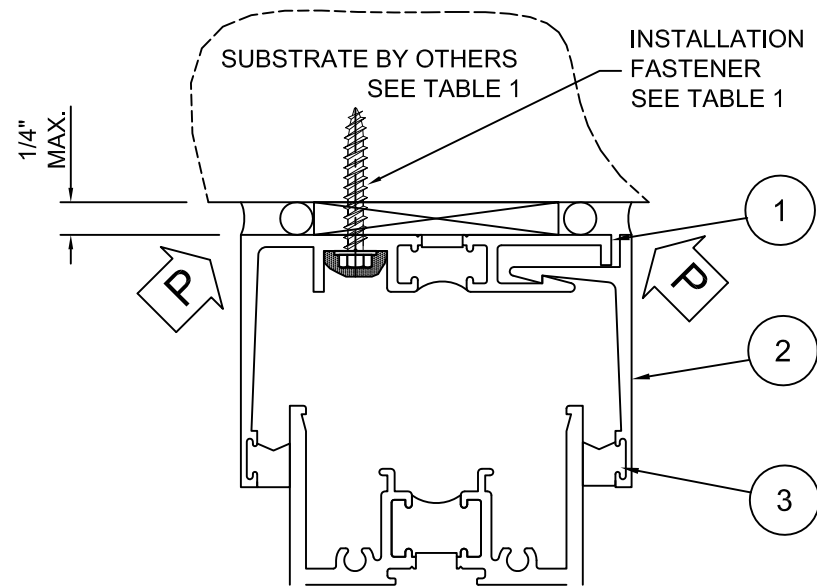


10/23/2023  
LUCAS A. TURNER  
FL P.E. #58201  
  
TURNER ENGINEERING &  
CONSULTING, INC.  
2428 OLD NATCHEZ TRACE TRL.  
CAMDEN, TN 38320  
PH. 941-380-1574

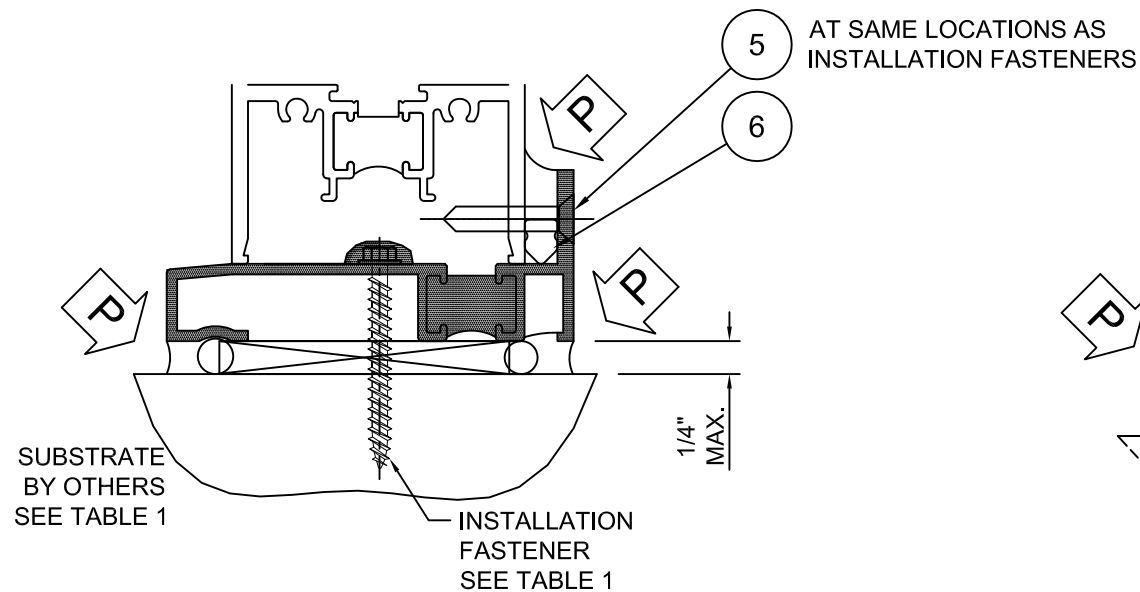
DRAWING NO. 8225TL-FX-FPA	PRODUCT 8225TL FIXED
FPA # FL44172	
DATE 10/21/2023	
SCALE NTS	SHEET 6 OF 8

TABLE 1. QUALIFIED ANCHOR INFORMATION

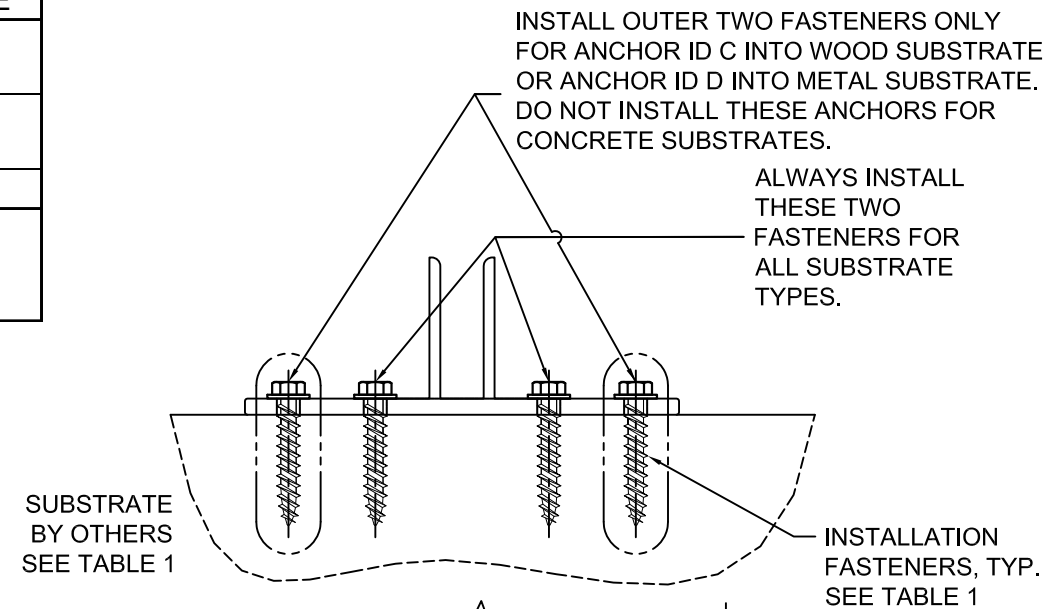
ID	SUBSTRATE	ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE
A	SOLID UNCRACKED CONCRETE (2850 PSI MIN.)	1/4" DEWALT COATED CARBON STEEL ULTRACON+	1 3/4"	2 1/2"
B	UNCRACKED CMU (ASTM C-90) (JAMBS ONLY)	1/4" DEWALT COATED CARBON STEEL ULTRACON+	1 1/4"	2 1/2"
C	2x MIN. SOUTHERN PINE WOOD (G=0.55 MIN)	#12 GRADE 5 WOOD SCREW	2"	1"
D	16 GAUGE (0.060") MIN. STEEL STUD (33 KSI YIELD MIN.) OR 1/8" MIN. ALUMINUM (6063-T5 MIN.) OR 1/8" MIN. A36 STEEL	#1/4-14 ITW TEKS SELF-DRILLING SCREW	FULL + 3 THREADS	1/2"



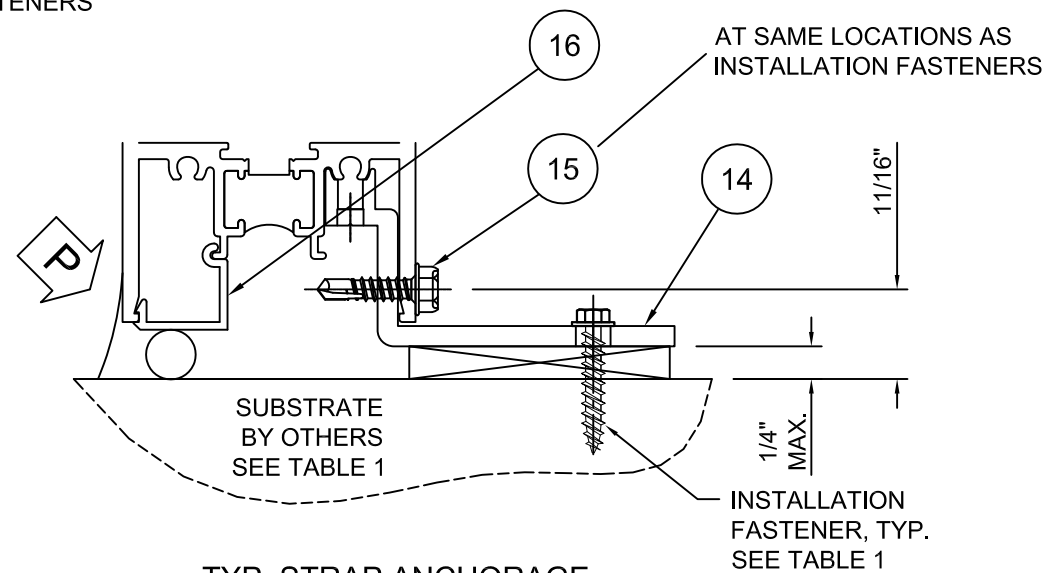
TYP. RECEPTOR ANCHORAGE HEAD/JAMB



TYP. SUBSILL ANCHORAGE



TYP. MULLION CLIP ANCHORAGE HEAD/SILL, EACH MULL

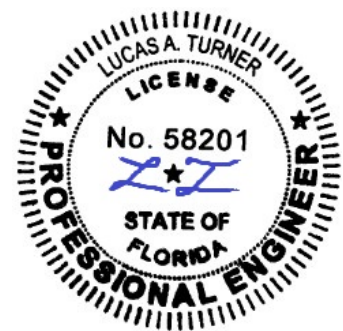


TYP. STRAP ANCHORAGE HEAD/SILL/JAMB

**P** PERIMETER SEALS (BY OTHERS)



555 GUTHRIDGE COURT  
NORCROSS, GEORGIA 30092  
PH. 770-449-5555  
WWW.KAWNEER.COM



10/23/2023  
LUCAS A. TURNER  
FL P.E. #58201

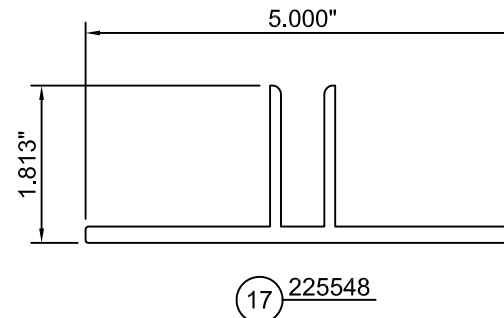
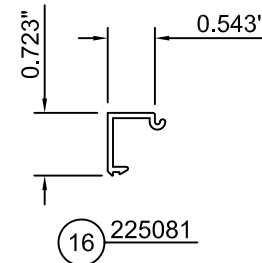
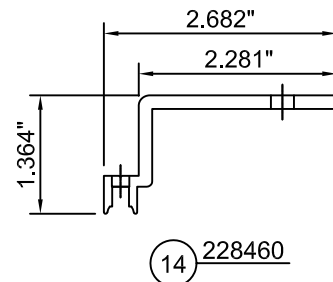
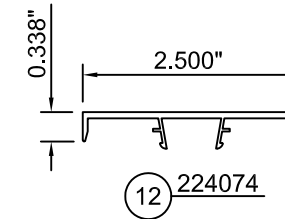
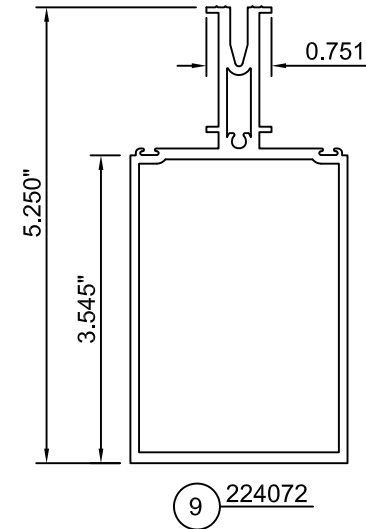
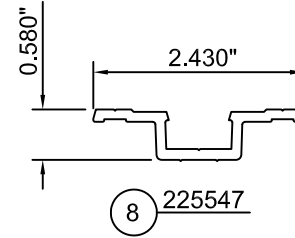
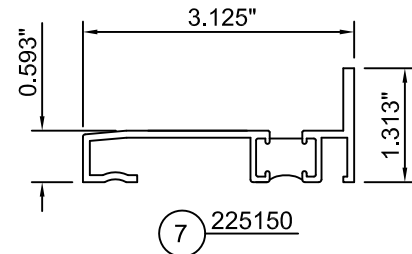
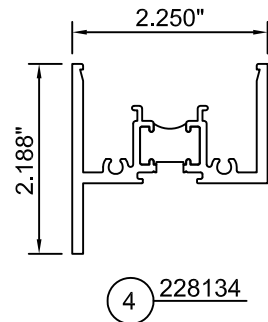
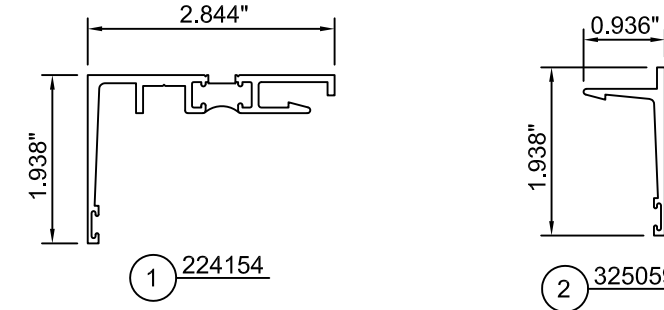
TURNER ENGINEERING & CONSULTING, INC.  
2428 OLD NATCHEZ TRACE TRL.  
CAMDEN, TN 38320  
PH. 941-380-1574

DRAWING NO. 8225TL-FX-FPA	PRODUCT 8225TL FIXED
FPA # FL44172	
DATE 10/21/2023	
SCALE NTS	SHEET 7 OF 8

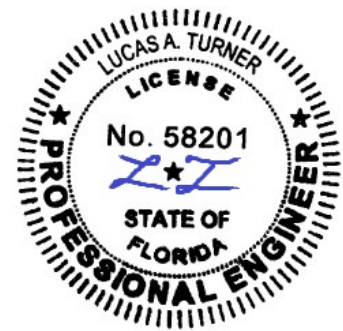
10/21/2023	DATE
-	REV. #
INITIAL RELEASE	PRINTS ISSUED FOR

# 8225TL - FIXED THERMAL WINDOWS MATERIAL PARTS LIST

NO.	PART NO.	DESCRIPTION	DIMENSIONS	MATERIAL
<b>EXTRUSIONS &amp; MISC. PARTS</b>				
1	224154	TWO PIECE RECEPTOR	1.938 x 2.844 x 0.080	6063-T6 ALUMINUM
2	325059	TWO PIECE RECEPTOR STOP	1.938 x 0.936 x 0.090	6063-T6 ALUMINUM
3	027883	RECEPTOR WEATHERING	0.349 x 3.849 x 0.040	SANTOPRENE / POLYPROPYLENE
4	228134	REVERSIBLE FRAME FOR 0.125" WALL	2.188 x 2.250 x 0.125	6063-T6 ALUMINUM
5	028520	FASTENER	10 x 1 CRFCHTFS AB	300 SERIES STAINLESS STEEL
6	127038	1/4" BACK UP WEDGE	0.250 x 0.340	BLACK SCR-900
7	225150	FULL DEPTH SUB SILL	1.313 x 3.125 x 0.080	6063-T6 ALUMINUM
8	225547	STRUCTURAL MULLION PRESS PLATE	2.430 x 0.581 x 0.125	6063-T6 ALUMINUM
9	224072	STRUCTURAL MULLION 3-5/8" PROJECTION	2.500 x 5.265 x 0.100	6063-T6 ALUMINUM
10	128406	FASTENER	1/4 x 1 HWHTFS AB	18-8 STAINLESS STEEL
11	162310	THERMAL BREAK	0.626 x 5.850	BLACK EPDM, PEROXIDE
12	224074	STRUCTURAL MULLION COVER	2.500 x 3.338 x 0.072	6063-T6 ALUMINUM
13	027874	WEATHERING	0.187 x 0.200	VYRAM OR EQ. / POLYPROPYLENE OR EQ. / SANTOPRENE OR EQ.
14	228460	STRAP ANCHOR	2.682 x 1.365 x 0.156	6063-T6 ALUMINUM
15	128961	FASTENER	10-16 x 3/4 HWHSMD	400 SERIES STAINLESS STEEL
16	225081	EXTERIOR SEALANT BACKUP	0.705 x 0.663 x 0.060	6063-T6 ALUMINUM
17	225548	HEAVYWEIGHT MULL AHR CLIP	5 x 1.250 x 1.813	6063-T6 ALUMINUM



**KAWNEER**  
 555 GUTHRIDGE COURT  
 NORCROSS, GEORGIA 30092  
 PH. 770-449-5555  
 WWW.KAWNEER.COM



10/23/2023  
 LUCAS A. TURNER  
 FL P.E. #58201  
 TURNER ENGINEERING &  
 CONSULTING, INC.  
 2428 OLD NATCHEZ TRACE TRL.  
 CAMDEN, TN 38320  
 PH. 941-380-1574

DRAWING NO. 8225TL-FX-FPA	PRODUCT 8225TL FIXED
FPA # FL44172	
DATE 10/21/2023	
SCALE NTS	SHEET 8 OF 8

REV. #	DATE
-	10/21/2023
INITIAL RELEASE PRINTS ISSUED FOR	