# KAWNEER 8225TL EMERGENCY EGRESS CASEMENT PROJECT-OUT THERMAL WINDOWS

#### **GENERAL NOTES**

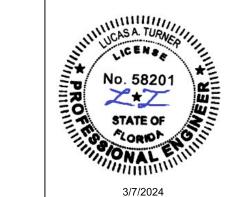
- 1. THIS WINDOW SYSTEM HAS BEEN TESTED TO ASTM E283, ASTM E330, ASTM E331, ASTM E1886, AND ASTM E1996, AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION, FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE.
- 2. THE INSTALLED WINDOW SYSTEM SHALL BE FABRICATED, GLAZED, AND ANCHORED 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 WIND ZONE 3 LARGE MISSILE IMPACT RESISTANT, AND DOES NOT REQUIRE THE USE OF APPROVED SHUTTERS IN WIND ZONE 3 AND BELOW 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. SUBTRATES 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 VERITICAL 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.

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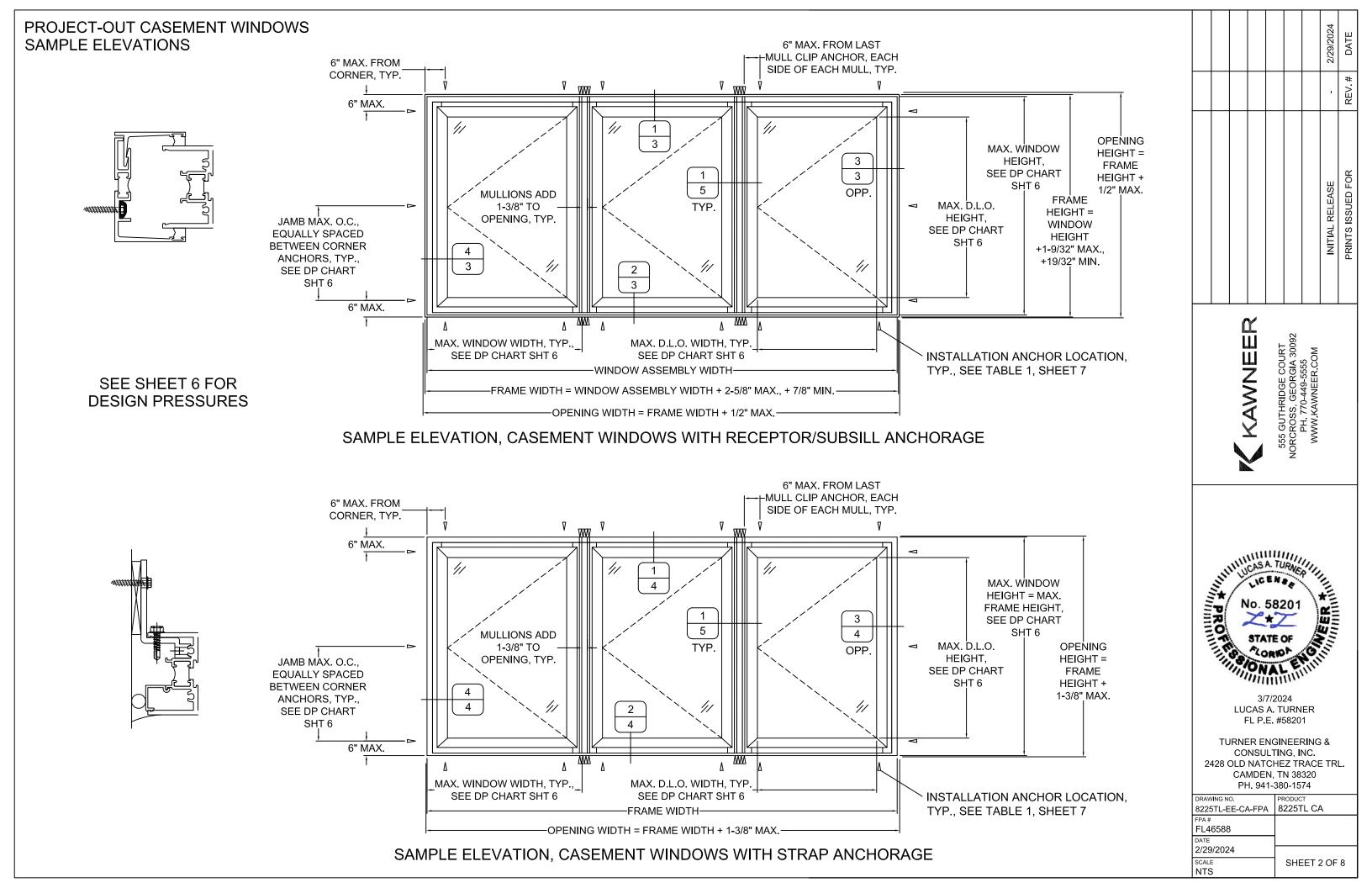
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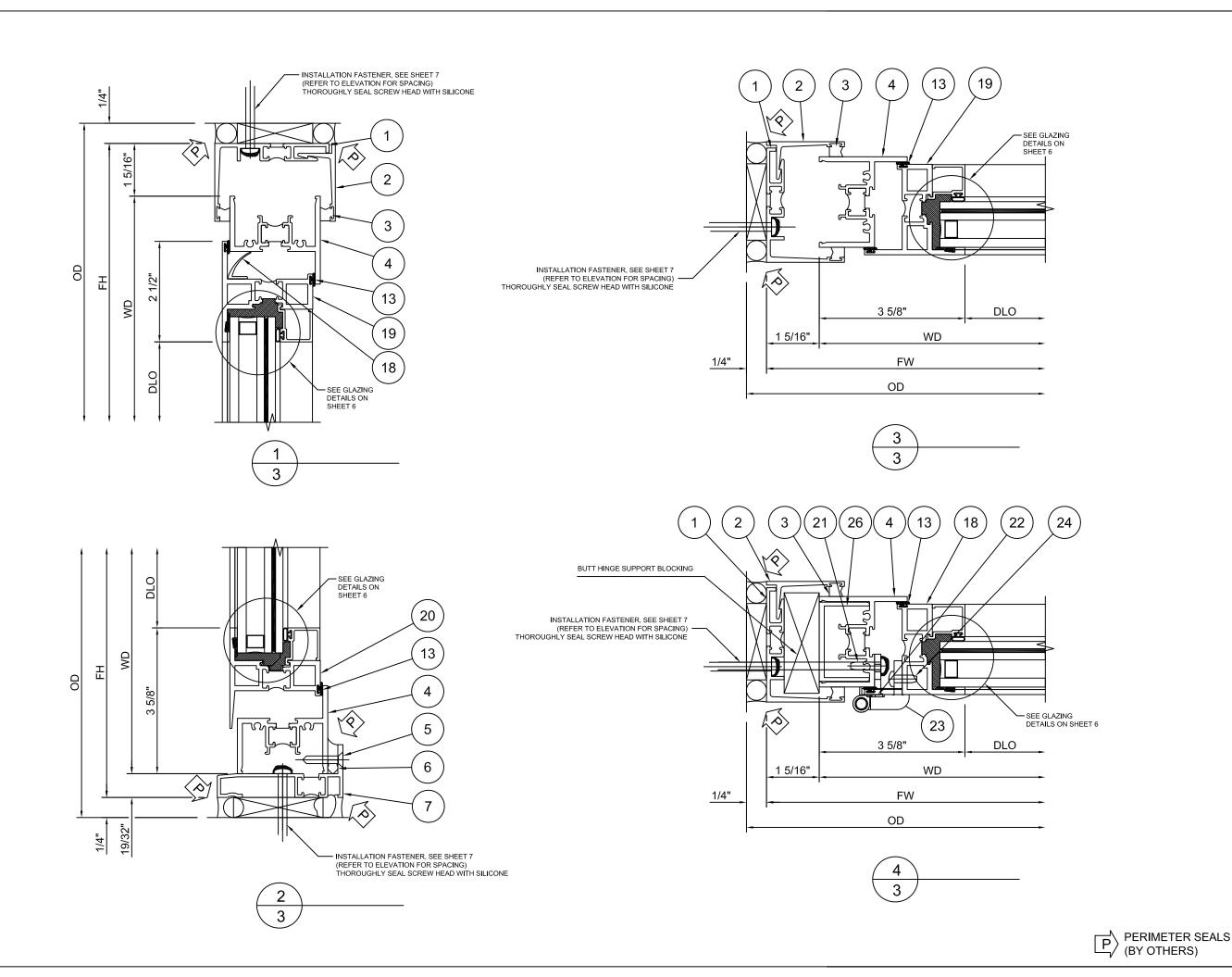
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SCALE

SHEET 1 OF 8







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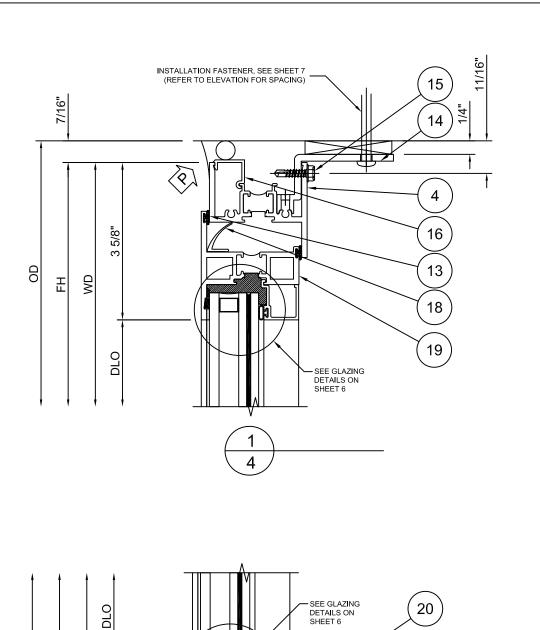
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INSTALLATION FASTENER, SEE SHEET 7 (REFER TO ELEVATION FOR SPACING)

WD

7/16"

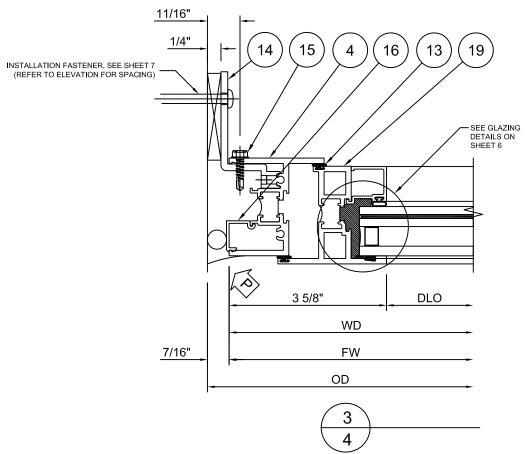
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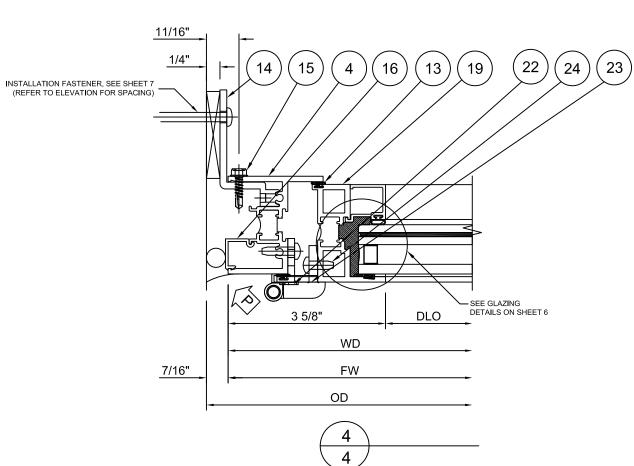
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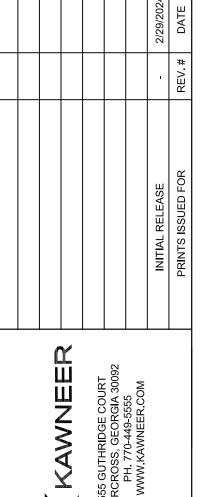
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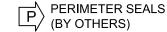


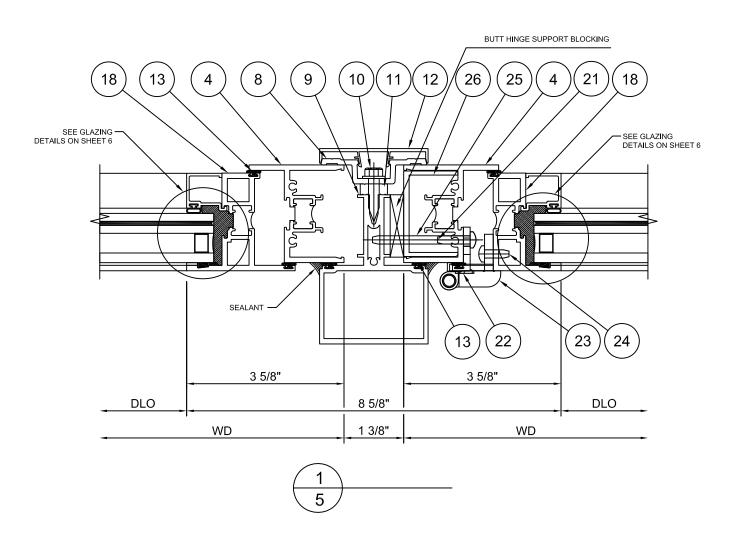


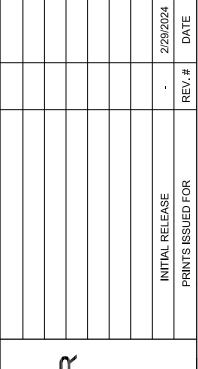
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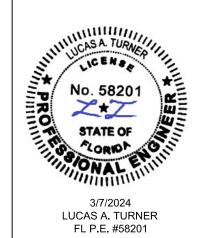
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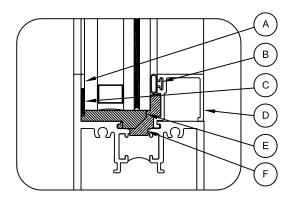
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	APPROVED GLAZING TYPE						
MISSILE RATING	MISSILE RATING TYPE NOMINAL THICKNESS DESCRIPTION						
WIND ZONE 3 LARGE MISSILE	1	1-1/8" (1.125")	1/4" FT OUTBOARD, 7/16" AIR SPACER, 3/16" HS INBOARD, 0.090 KURARAY SG, 3/16" HS INBOARD - WET GLAZE				

APPROVED BACKBEDDING / STRUCTURAL SILICONE							
DESIGNATION	GLASS TYPE	IMPACT RATING	*BACK BEDDING SILICONE **STRUCTURAL SILICONE				
BB1	1	WZ3 LMI	*RGS7700 RAPIDSTRENGTH W/ ** SCS2000 SILPRUF				

## TYP. GLAZING DETAIL



- 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 NOTES:

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

HARDWARE / ACCESSORIES						
PART NUMBER	PART DESCRIPTION	QUANTITY PER VENT				
225438	HOOK LOCK FOR WINDOW	01				
730482	CO HOOK LOCK KEEPER	01				
225421	RISER BLOCK	01				
229136	CASEMENT WIND BUTT HINGE	03				
290409	RISER BLOCK	01				
229225	6.5" KEY RELEASE LIMIT DEVICE	01				

822	5TL EMERGENCY E	GRESS PROJECT-OUT CASEMENT	WINDOWS DP CH.	ART (ALLOV	VABLE DESI	GN PRESSU	JRES), STRA	AP ANCHORAC	E
APPROVED	APPROVED BACKBEDDING/		III) (CE		DIMEN	SIONS		DESIGN PRESSURE	JAMB MAX. O.C. ANCHOR SPACING
GLASS TYPE(S) (SEE SHT 6)	STRUCTURAL SILICONE TYPE(S) (SEE SHT 6)	IMPACT RATING	HINGE HARDWARE	MAX. WINDOW WIDTH (in.)	MAX. WINDOW HEIGHT (in.)	MAX. D.L.O. WIDTH (in.)	MAX D.L.O. HEIGHT (in.)	(+/- psf)	(in.)
1	BB1	WIND ZONE 3 LARGE MISSILE	BUTT	26	44-3/4	18-11/16	37-1/2	90	16-3/8

8225TL EN	8225TL EMERGENCY EGRESS PROJECT-OUT CASEMENT WINDOWS DP CHART (ALLOWABLE DESIGN PRESSURES), RECEPTOR/SUBSILL ANCHORAGE								
APPROVED	APPROVED BACKBEDDING/		VM VOT		DIMEN	SIONS		DESIGN PRESSURE	JAMB MAX. O.C. ANCHOR SPACING
GLASS TYPE(S) (SEE SHT 6)	STRUCTURAL SILICONE TYPE(S) (SEE SHT 6)	IMPACT RATING	HINGE HARDWARE	MAX. WINDOW WIDTH (in.)	MAX. WINDOW HEIGHT (in.)	MAX. D.L.O. WIDTH (in.)	MAX D.L.O. HEIGHT (in.)	(+/- psf)	(in.)
1	BB1	WIND ZONE 3 LARGE MISSILE	BUTT	26	44-3/4	18-11/16	37-1/2	90	17

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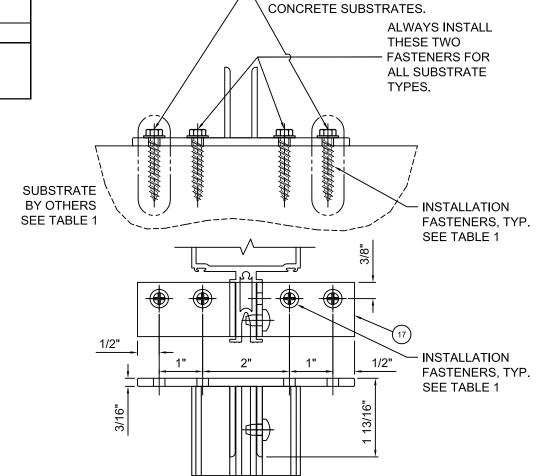


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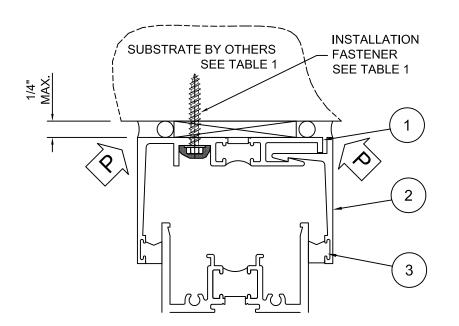
TABLE 1. QUALIFIED ANCHOR INFORMATION					
ID	SUBSTRATE	ANCHOR	MIN.	MIN. EDGE	
			EMBEDMENT	DISTANCE	
Α	SOLID UNCRACKED CONCRETE (3050 PSI MIN.)	1/4" DEWALT COATED CARBON STEEL ULTRACON+	1 3/4"	2 1/2"	
В	UNCRACKED CMU (ASTM C-90) (JAMBS ONLY)	1/4" DEWALT COATED CARBON STEEL ULTRACON+	1 1/4"	2 1/2"	
С	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#1/4=14 11 W   FK > >F  F=1   R    1   INC =	FULL + 3 THREADS	1/2"	



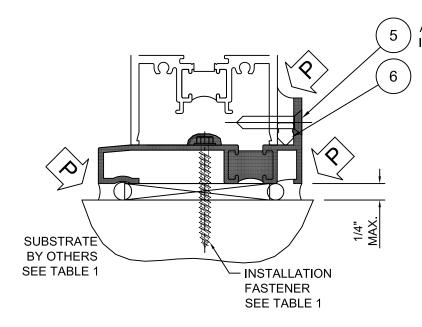
INSTALL OUTER TWO FASTENERS ONLY

FOR ANCHOR ID C INTO WOOD SUBSTRATE OR ANCHOR ID D INTO METAL SUBSTRATE. DO NOT INSTALL THESE ANCHORS FOR

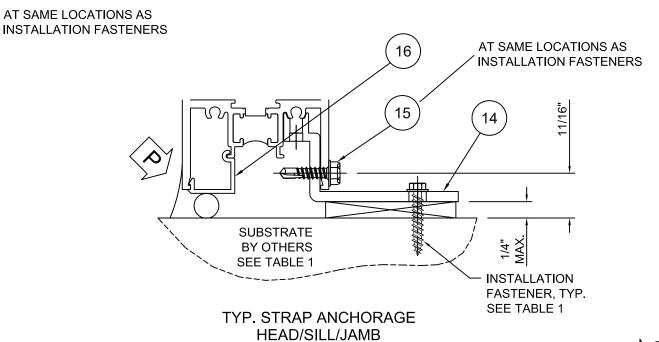
TYP. MULLION CLIP ANCHORAGE HEAD/SILL, EACH MULL



TYP. RECEPTOR ANCHORAGE **HEAD/JAMB** 



TYP. SUBSILL ANCHORAGE



PERIMETER SEALS (BY OTHERS)

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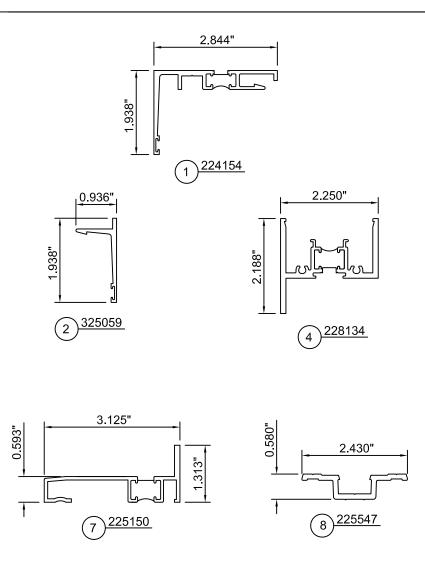
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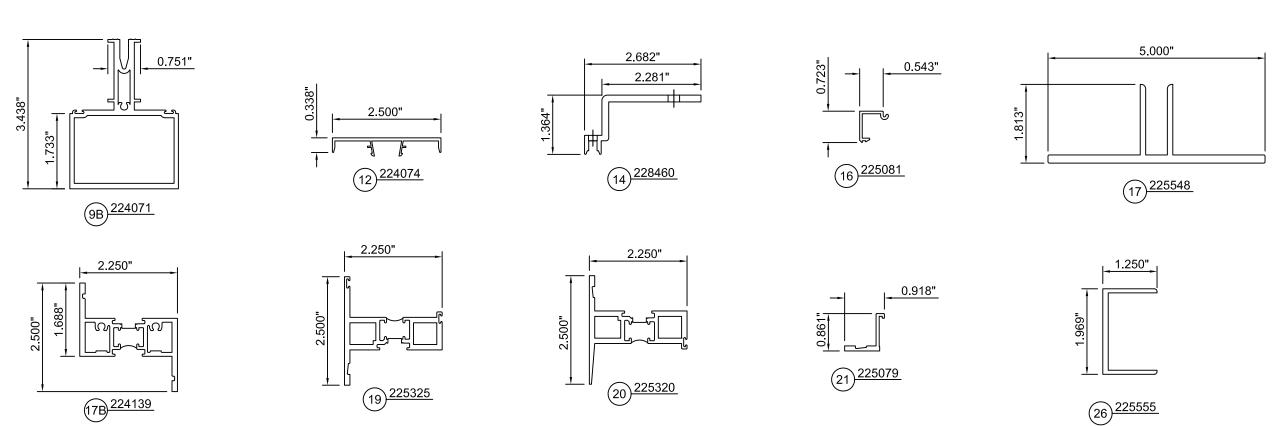
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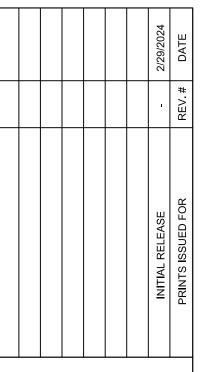
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## 8225TL - THERMAL WINDOWS MATERIAL PARTS LIST

	D. D. D. L. L. C.						
NO.	PART NO.	DESCRIPTION	DIMENSIONS	MATERIAL			
	EXTRUSIONS & MISC. PARTS						
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			
9B	224071	STRUCTURAL MULLION 1-13/16" PROJECTION	2.500 x 3.453 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			
17B	224139	ZEE INTERMEDIATE	1.688 x 2.250 x 0.125	6063-T6 ALUMINUM			
18	127265	WATER DEFLECTION GASKET	0.495 x 0.760	SANTOPRENE 8201-80 / 10 MIL TRANSFER TAPE			
19	225325	1/8" WALL PROJECT OUT VENT SILL	2.500 x 2.250 x 0.125	6063-T6 ALUMINUM			
20	225320	1/8" WALL PROJECT OUT VENT SILL	2.500 x 2.250 x 0.125	6063-T6 ALUMINUM			
21	225079	REVERSE PROJECTION ADAPTOR	0.861 x 0.808 x 0.070	6063-T6 ALUMINUM			
22	229137	PAD FOR 229136 HINGE	2.010 x 0.3 x 0.125	EPDM			
23	229136	CSMT WIND BUTT HINGE	3.250 x 1.398	6061-T6 ALUMINUM			
24	128414	FASTENER	10 x 7/16 PHTF B	STAINLESS STEEL AUSTENITIC			
25	028985	FASTENER	10 x 2 1/4 TYPE I CRPHTFS B	430 SERIES STAINLESS STEEL			
26	225555	BUTT HINGE SPRT CSMT	3 x 2.019 x 0.125	6063-T6 ALUMINUM			







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