MODEL 8150 SYSTEMS 1 AND 2 PICTURE WINDOW - LARGE MISSILE IMPACT

MAX. OVERALL **FLANGE WIDTH** MAX. UNIT WIDTH 31 13/16" **GLASS DLO** 73 1/4" В MAX. **OVERALL FLANGE HEIGHT** \mathbf{O} 72" MAX. UNIT HEIGHT 67 13/16" **GLASS** DLO A SYSTEM 1

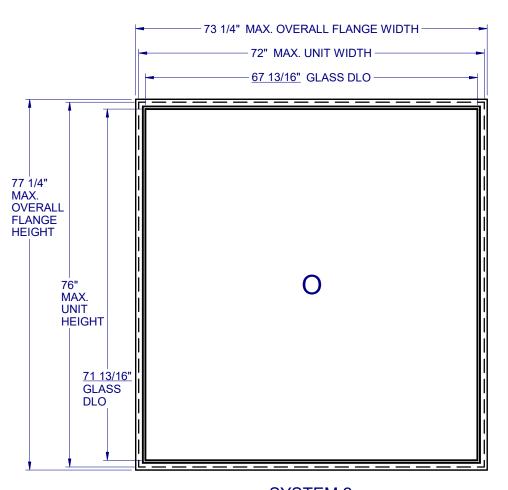
(CAR 138-259/138-491)
MAXIMUM ALLOWABLE DESIGN PRESSURE: +75/-75 PSF

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GENERAL NOTES:

- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE AND 2018 INTERNATIONAL RESIDENTIAL CODE.
- 2. GLAZING OPTIONS: (SEE SHEET 3)
- 3. CONFIGURATIONS: "O". ARCHITECTURAL SHAPES INCLUDE, BUT ARE NOT LIMITED TO, THOSE SHOWN ON SHEET 2.
- 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.
- 6. ALL FRAMES ARE FULLY WELDED.
- 7. SERIES / MODEL DESIGNATION PW-8150.
- 8. THE DESIGNATION X AND O STAND FOR THE FOLLOWING: O = FIXED SASH.
- 9. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.

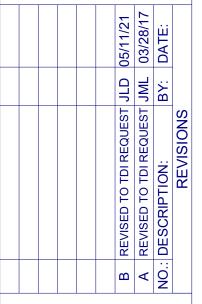


SYSTEM 2 (CAR 138-562/138-1362) MAXIMUM ALLOWABLE DESIGN PRESSURE: +67.5/-67.5 PSF



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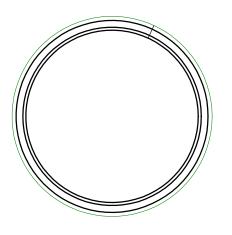
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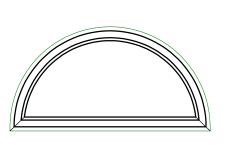
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GENERAL NOTES AND ELEVATIONS

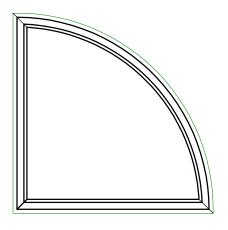
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DWG #:	REV.:
TDI-433	В
SCALE:	SHEET
1:20	1 OF 6



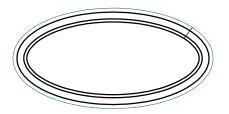
FULL CIRCLE



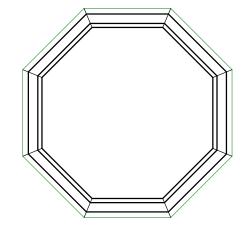
1/2 CIRCLE



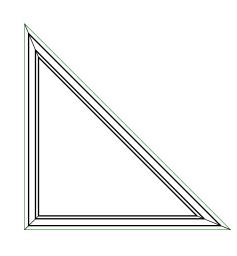
1/4 CIRCLE



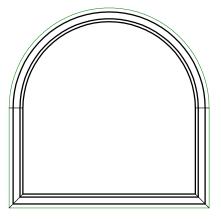
FULL ELLIPSE (OVAL)



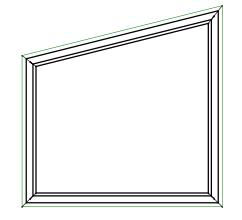
OCTAGON



TRIANGLE



TOMBSTONE



TRAPEZOID

NOTES:

- 1. SEE SHEET 5 FOR DETAILED ANCHOR INSTALLATION REQUIREMENTS.
- THRU FRAME MASONRY, WOOD OR METAL OPENING. THRU FIN - WOOD OPENING.
- 3. OVERALL SIZE MUST NOT EXCEED THE MAX. WIDTH AND HEIGHT OF RECTANGULAR WINDOW ON SHEET 1.
- 4. ANCHOR SPACING FOR ARCHITECTUAL FLANGE AND FIN WINDOWS MUST FOLLOW THE LAYOUTS SHOWN ON SHEET 5, WITH ANCHOR SPACING MEASURED ALONG THE LENGTH OF THE PRODUCT.



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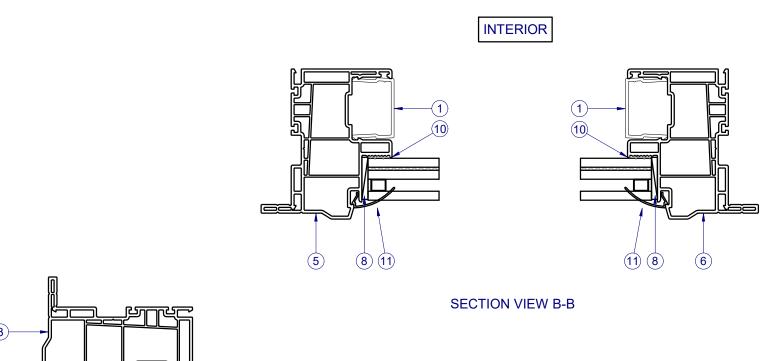
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SHEET DESCRIPTION:

ARCHITECTURAL SHAPES

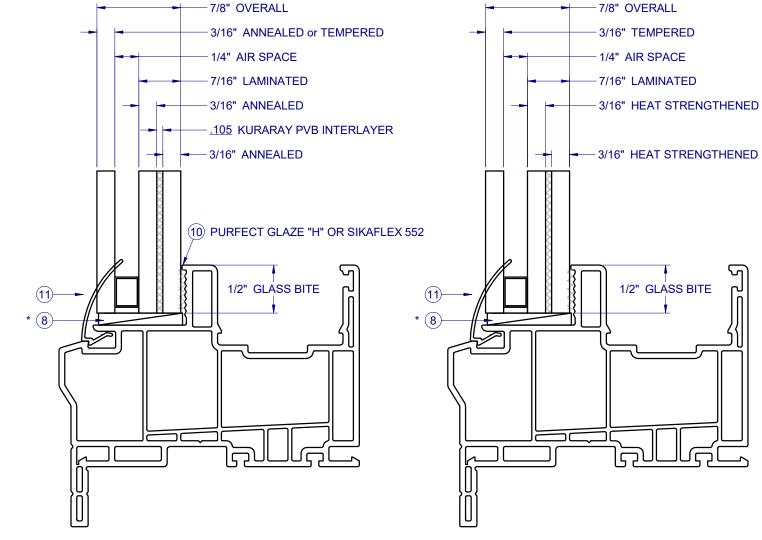
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ALTERNATE FIN FRAME

INTERIOR

SECTION VIEW A-A



GLASS TYPE B

1:1

GLASS TYPE A

1:1



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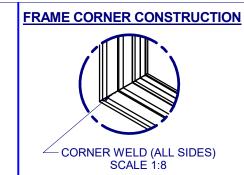
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SHEET DESCRIPTION:

SECTION VIEWS AND GLAZING DETAIL

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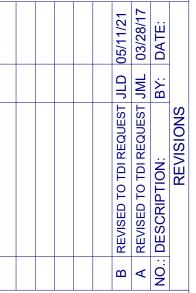
	PARTS LIST						
ITEM	PART #	DESCRIPTION	MATERIAL				
1	H-6025	SASH STOP	PVC				
2	H-6231	FIN FRAME	PVC				
3	H-6222	FLANGE FRAME HEAD	PVC				
4	H-6222	FLANGE FRAME SILL	PVC				
5	H-6222	FLANGE FRAME LEFT JAMB	PVC				
6	H-6222	FLANGE FRAME RIGHT JAMB	PVC				
8	P-5615	SETTING BLOCK 85 DUROMETER 1/8" x 5/8" x 2" LG.	RUBBER				
10	P-4648	SIKAFLEX 552 OR HENKEL PURFECT GLAZE "H"					
11	S-6237	GLAZING BEAD (7/8" O.A. I.G.)	PVC				
12	GLASS	SEE SHEET 3	GLASS				





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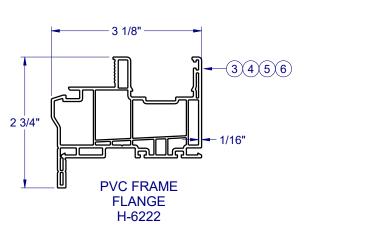
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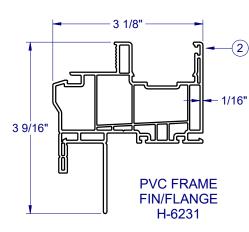
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BOM AND EXTRUSIONS

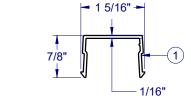
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LINE ITEMS NOT USED:

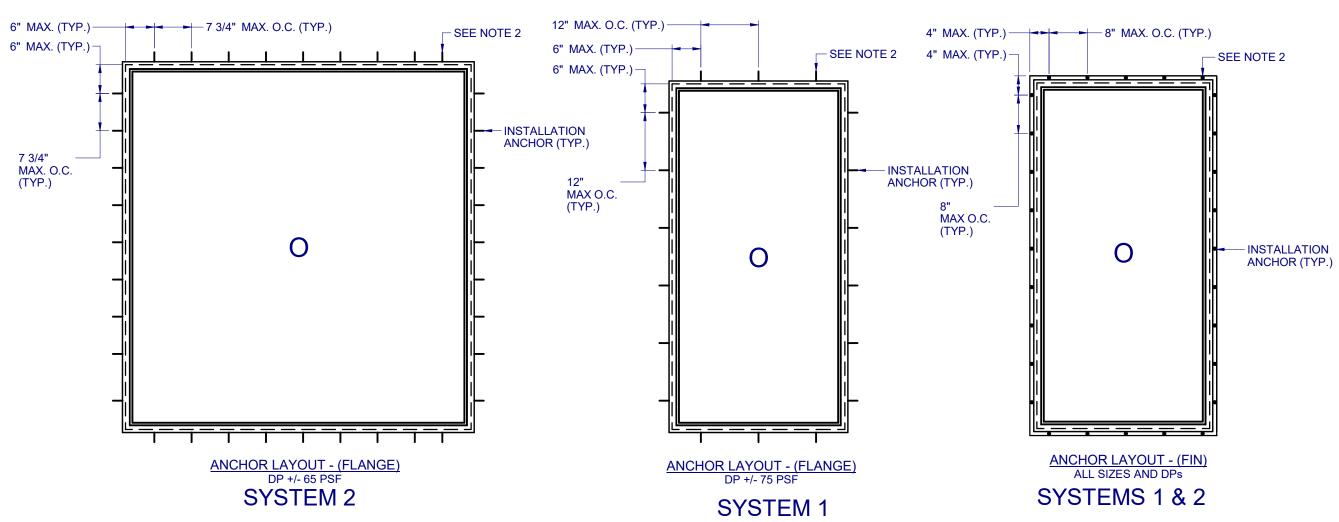








PVC FILLER, SASH STOP S-6025



NOTES:

- 1. INSTALL ONE ANCHOR AT EACH INSTALLATION LOCATION. ANCHOR SPACING APPLIES TO ALL SHAPES (SEE SHEET 2) ALONG ALL FRAME EDGES. SILL ANCHOR SPACING SAME AS HEAD.
- 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 REQURE 1X WOOD BUCKS BETWEEN THE PRODUCT AND 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: 3-9/16" 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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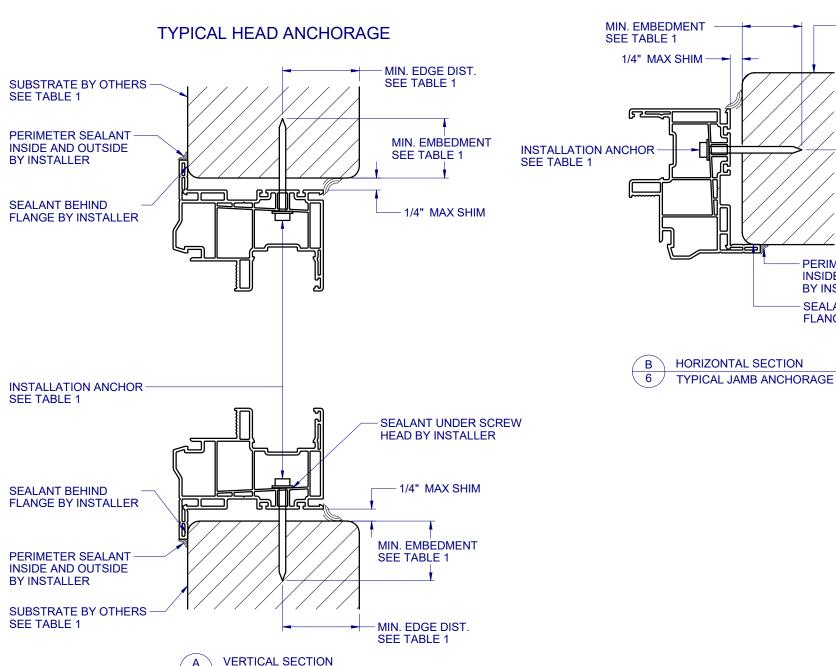
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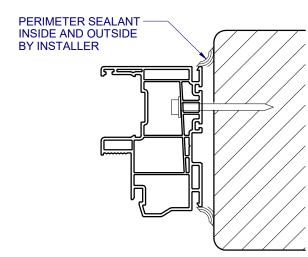
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ANCHOR SCHEDULE AND NOTES

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MIN. EMBEDMENT SEE TABLE 1	SUBSTRATE BY OTHERS SEE TABLE 1		0.15075.475
STALLATION ANCHOR E TABLE 1		MIN. EDGE DIST. SEE TABLE 1 1/4" MAX SHIM	SUBSTRATE BY OTHERS SEE TABLE 1 MIN. EMBEDMENT SEE TABLE 1 PERIMETER SEALANT INSIDE AND OUTSIDE BY INSTALLER INSTALLATION ANCHOR SEE TABLE 1 SEALANT BEHIND FIN BY INSTALLER
		C HORIZONTAL SECTION	



D HORIZONTAL SECTION

6 BOX FRAME INSTALLATION
HEAD AND SILL SIMILAR FOR BOX INSTALLATION

TYPICAL FIN ANCHORAGE

HEAD AND SILL SIMILAR FOR FIN INSTALLATION

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 1-3/4" 2-1/2" 3/16" ITW TAPCON **FLANGE** 2X MIN. SOUTHERN PINE (G=0.55) 1-3/8" 7/8" OR ELCO ULTRACON #10 PHILLIPS PH SCREW W/ 2" **FLANGE** 2X MIN. SOUTHERN PINE (G=0.55) 7/8" WASHER COMBO 16 GAUGE (0.060") MIN. STEEL STUD #10-16 HILTI KWIK-FLEX OR ITW **FULL THREAD FLANGE** 7/16" (33 KSI YIELD MIN) TEKS SELF-DRILLING SCREW THRU 0.060" 1/8" ALUM. (6063-T5 MIN.) OR #10 GRADE 5 SELF-TAPPING / **FULL THREAD FLANGE** 7/16" 1/8" STEEL (33 KSI MIN.) **DRILLING SCREW** THRU 0.125" #10 PHILLIPS PH SCREW W/ FIN 2X MIN. SOUTHERN PINE (G=0.55) 1-1/2" 7/16" WASHER COMBO

TYPICAL SILL ANCHORAGE

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 OUTSIDE. FULL PERIMETER. BY INSTALLER.
- PRODUCT ANCHORAGE IS IN ACCORDANCE WITH REQUIREMENTS AS SHOWN FOR FLANGE WINDOWS.



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	SCALE:	SHEET
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