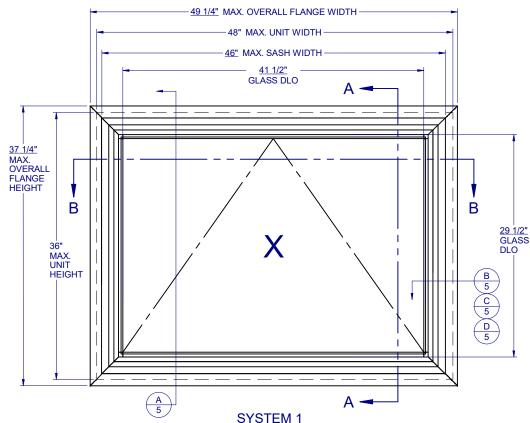
## MODEL 8450 SYSTEM 1 AWNING - LARGE MISSILE IMPACT



(CAR 138-271/138-727 & 138-272/138-728) MAXIMUM ALLOWABLE DESIGN PRESSURE: +67.5/-67.5 PSF

#### TABLE OF CONTENTS

GENERAL NOTES & ELEVATIONS...... SECTION VIEWS & GLAZING. EXTRUSIONS & B.O.M..... ANCHOR SCHEDULE & NOTES...... INSTALLATION DETAILS....

#### **GENERAL NOTES:**

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE (IBC) AND 2018 INTERNATIONAL RESIDENTIAL CODE (IRC).
- 2. GLAZING OPTIONS: (SEE SHEET 2)
- CONFIGURATIONS: ALL WINDOWS ARE OPEN FROM BOTTOM TO OUTSIDE.
- 4. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEET 5 FOR INSTALLATION DETAIL. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- 5. PRODUCTS APPROVED FOR IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED.
- ALL FRAMES ARE PROCESSED AND SCREWED TOGETHER. PVC VENTS FULLY WELDED.
- 7. SERIES/MODEL DESIGNATION AW-8450.
- 8. THE DESIGNATION X STANDS FOR THE FOLLOWING: X = OPERABLE SASH
- 9. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.



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

#### 8450 PVC AWNING IMPACT





#### 5/15/2020

LUCAS A. TURNER, P.E.

TX PE # 115094

TBPE REG. #F-18075

2428 OLD NATCHEZ TRC TRL

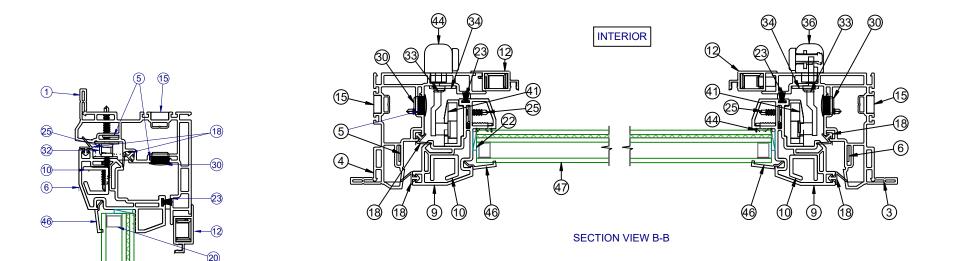
CAMDEN, TN 38320

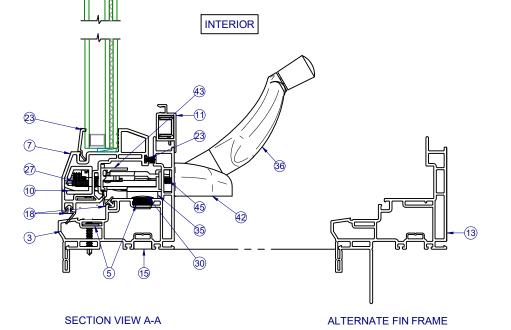
PH. 941-380-1574

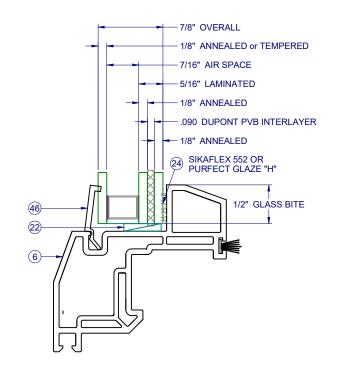
SHEET DESCRIPTION:

## GENERAL NOTES AND ELEVATIONS

| DRAWN BY: | DATE:    |
|-----------|----------|
| EMK       | 11/12/15 |
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| TDI-163   | В        |
| SCALE:    | SHEET    |
| 1:10      | 1 OF 5   |









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#### 8450 PVC AWNING IMPACT

|  |  |  | 4/09/20                              | 3/29/17                    | DATE:             |           |  |
|--|--|--|--------------------------------------|----------------------------|-------------------|-----------|--|
|  |  |  | JLD                                  | JML                        | BY:               |           |  |
|  |  |  | IBC/IRC REF. 2018 UPDATE JLD 4/09/20 | REVISED TO TDI REQUEST JML | NO.: DESCRIPTION: | REVISIONS |  |
|  |  |  | В                                    | ⋖                          | NO.:              |           |  |



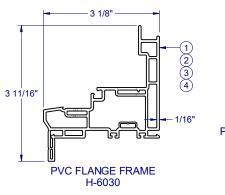
#### 5/15/2020

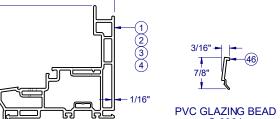
LUCAS A. TURNER, P.E.
TX PE # 115094
TBPE REG. #F-18075
2428 OLD NATCHEZ TRC TRL
CAMDEN, TN 38320
PH. 941-380-1574
SHEET DESCRIPTION:

## SECTION VIEWS AND GLAZING DETAIL

| DRAWN BY: | DATE:    |
|-----------|----------|
| EMK       | 11/12/15 |
| DWG #:    | REV.:    |
| TDI-163   | В        |
|           |          |
| SCALE:    | SHEET    |

| ITEM | PART#  | DESCRIPTION                                     | VENDOR            | MATERIAL    |
|------|--------|---|-------------------|-------------|
| 1    |        | FR., AWNING., MAIN, HEAD                        | Mikron            | Rigid PVC   |
| 2    |        | FR., AWNING, MAIN, SILL                         | Mikron            | Rigid PVC   |
| 3    |        | FR., AWNING, MAIN, JB., RIGHT                   | Mikron            | Rigid PVC   |
| 4    |        | FR., AWNING, MAIN, JB., LEFT                    | Mikron            | Rigid PVC   |
| 5    |        | COIL-ALUMINUM, 5052-H32 (.050 X .437) JB, LEFT  | Precision Steel   | Aluminum    |
| 6    |        | SASH, AWNING, TOP RAIL                          | Mikron            | Rigid PVC   |
| 7    |        | SASH, AWNING, BOT. RAIL                         | Mikron            | Rigid PVC   |
| 8    |        | SASH, AWNING, SIDE RAIL, RIGHT                  | Mikron            | Rigid PVC   |
| 9    | H-6008 | SASH, AWNING, SIDE RAIL, LEFT                   | Mikron            | Rigid PVC   |
| 10   |        | REINF. AWNING, SASH SIDE RAIL LEFT              | Keymark           | Aluminum    |
| 11   |        | SCREEN RAIL, SIDE                               | Keymark           | Aluminum    |
| 12   |        | SCREEN RAIL, TOP/BTM/SIDE                       | Keymark           | Aluminum    |
| 13   |        | FR., AWNING., MAIN, HEAD, W/ INTEGRAL FIN       | Mikron            | Rigid PVC   |
| 14   |        | SCREEN LIFT-OUT                                 | Hurley            | Steel       |
| 15   |        | SCREW SUPPORT FOR PVC                           | Team              | Rubber      |
| 16   |        | SCREEN SPRING, NO HOLE TENSION                  | Hurley            | Steel       |
| 17   | P-3197 | SCREEN CORNER KEY                               | M&M               | Nylon       |
| 18   |        | WSTP., WHITE LEAF SEAL, FRAME                   | Amesbury          | Rubber      |
| 19   |        | SCREEN SPLINE, .155 DIA, BLK                    | Dapa              | Foam        |
| 20   |        | SPACER, DURASEAL, .SEE SHEET 3                  | Truseal           |             |
| 21   |        | SEAM SEALER, SM-5504                            | Schnee            | Silicone    |
| 22   |        | SET. BLK., 85 DUR., 1/8" X 5/8" X 2" LG.        | Frank Lowe        | Rubber      |
| 23   |        | WSTP., .270 X .187 BACK, ULTRA FIN, BLACK, SASH | Ultrafab          | Nylon       |
| 24   |        | PURFECT GLAZE "H", SIKA FLEX 552                | Truseal/Sika      | Silicone    |
| 25   |        | #8 X 3/4" QUAD PH TEK, ZINC, SCREW              | Fastenal          | Steel       |
| 26   |        | SCREEN CLOTH, 18 X 16 FIBERGLASS                | Wier              | Fiberglass  |
| 27   | P-3587 | #8 X 1" PH FH TEK 2, ZINC, SCREW                | Fastenal          | Steel       |
| 28   |        | CWS LBL. (LOGO)                                 |                   |             |
| 29   |        | AW-8400 GOLD CERT. LABEL, NFRC TAB              |                   |             |
| 30   | P-3752 | CAP PLUG, 1/2" HOLE                             | M&M               | Nylon       |
| 31   | P-3881 | TEMPORARY LBL. (NFRC/DP)                        |                   | -           |
| 32   |        | SNUBBER, SS, PVC                                |                   |             |
| 33   |        | #8-32 X 1/2" PH PH, MS, SS (ROTO HDWE. LOCK)    | Fastenal          | Steel       |
| 34   |        | SUPPORT PLATE, LOCK, SS, ROTO HDWE. (Use w/ P-  | Roto              | Stainless   |
| 35   | P-4012 | SHIM, ROTO OPERATOR, ROTO HDWE. (4.8mm)         | Roto              | Stainless   |
| 36   |        | HANDLE, STD, ROTO OPER, ROTO HDWE. (WHITE)      | Roto              | Stainless   |
| 37   |        | HINGE ARM, WASHABILITY, 13", ROTO HARDWARE      | Roto              | Stainless   |
| 38   |        | HINGE TRACK, 13" ROTO HDWE., "A" & "B"          | Roto              | Stainless   |
| 39   |        | GASKET, ROTO OPER., ROTO HDWE., 1/16"           | HOP               | Closed Cell |
| 40   | P-4042 | GASKET, LOCK                                    | HOP               | Closed Cell |
| 41   | P-4043 | STRIKE, MULTI-POINT                             | Progress Plastics | Plastic     |
| 42   | _      | ROTO OPER., SCISSOR ARM, AWNING                 | Roto              | Stainless   |
| 43   |        | SWIVEL BRACKET, ROTO OPER., AWNING              | Roto              | Stainless   |
| 44   | P-4047 | LOCK, SINGLE-POINT, ROTO HDWE., WHITE           | Roto              | Stainless   |
| 45   | P-4521 | #8-32 x 3/4" Phil Trilobe Truss, SS             | Fastenal          | Steel       |
| 46   |        | GLZ BD., 7/8"                                   | Mikron            | Rigid PVC   |
|      | GLASS  | SEE SHEET 2                                     |                   |             |





S-6064





CORNER WELD (ALL SIDES)



8450 PVC **AWNING** 

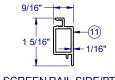
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4/09/20 3/29/17 DATE:

JLD JML BY:

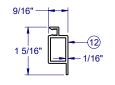
BECIRC REF. 2018 UPDATE J REVISED TO TDI REQUEST J DESCRIPTION: REVISIONS

| 7/16"                      |
|----------------------------|
| 1/16"                      |
| COIL, .05 X .43°<br>P-4050 |
|                            |
|                            |

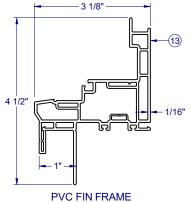


H-6008

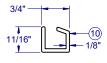




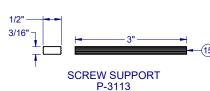
SCREEN RAIL TOP/SIDE H-1593



H-6030A



SASH REINF. S-1505





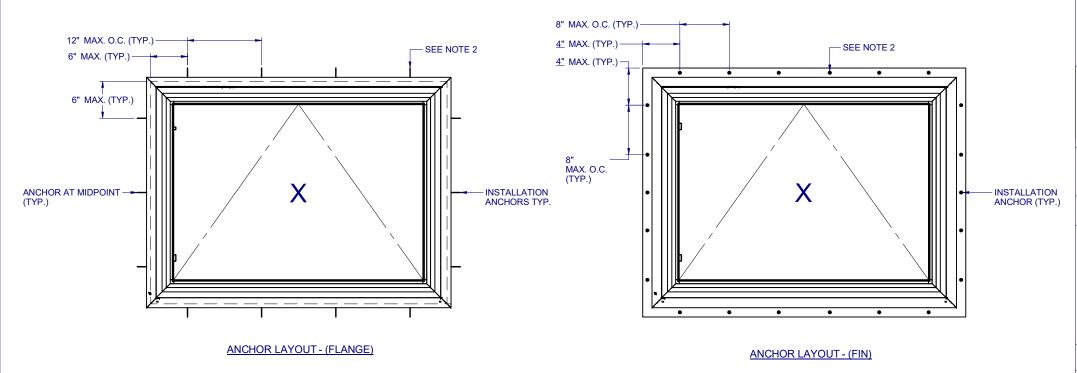
#### 5/15/2020

LUCAS A. TURNER, P.E. TX PE # 115094 TBPE REG. #F-18075 2428 OLD NATCHEZ TRC TRL **CAMDEN, TN 38320** PH. 941-380-1574 SHEET DESCRIPTION:

#### **BOM AND EXTRUSIONS**

| DRAWN BY: | DATE:    |
|-----------|----------|
| EMK       | 11/12/15 |
| DWG #:    | REV.:    |
| TDI-163   | В        |
| SCALE:    | SHEET    |
| 1:2       | 3 OF 5   |

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



#### NOTES:

- 1. INSTALL ONE ANCHOR AT EACH LOCATION. SILL ANCHOR SPACING SAME AS HEAD.
- 2. SHIM AS REQ'D 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 BECONSTRUCTED 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 5.
- 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 5.
- 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 REQUIRE 1X WOOD BUCKS BETWEEN THE PRODUCT AND THE 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" 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 TABLE 1, SHEET 5. 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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#### 8450 PVC AWNING IMPACT

|  |  |  | 4/09/20                                  | 3/29/17                    | DATE:             |           |
|--|--|--|--|----------------------------|-------------------|-----------|
|  |  |  | JLD                                      | JML                        | BY:               |           |
|  |  |  | IBC/IRC REF. 2018 UPDATE   JLD   4/09/20 | REVISED TO TDI REQUEST JML | NO.: DESCRIPTION: | REVISIONS |
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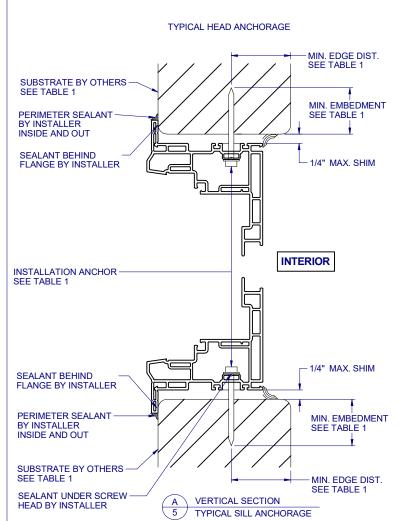


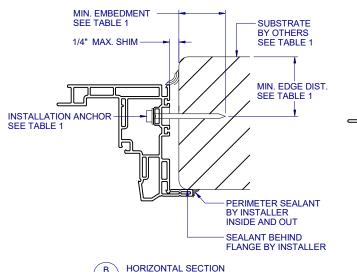
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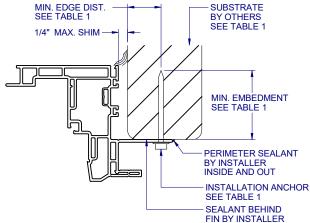
### ANCHOR SCHEDULE AND NOTES

| DRAWN BY: | DATE:    |
|-----------|----------|
| EMK       | 11/12/15 |
| DWG #:    | REV.:    |
| TDI-163   | В        |
| SCALE:    | SHEET    |
| 1:12      | 4 OF 5   |





TYPICAL JAMB ANCHORAGE



C HORIZONTAL SECTION

5 TYPICAL FIN ANCHORAGE
HEAD AND SILL SIMILAR FOR FIN INSTALLATION

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

#### 8450 PVC AWNING IMPACT

| B   BC/IRC REF. 2018 UPDATE   JLD   4/09/20   |
|---|
| B IBC/IRC REF. 2018 UPDATE JLD A REVISED TO TDI REQUEST JML NO.: DESCRIPTION: BY: REVISIONS |
| B BC/IRC REF. 2018 UPDATE A REVISED TO TDI REQUEST NO.: DESCRIPTION: REVISIONS              |
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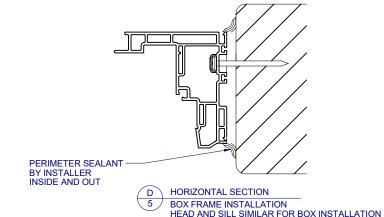
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TX PE # 115094
TBPE REG. #F-18075
2428 OLD NATCHEZ TRC TRL
CAMDEN, TN 38320
PH. 941-380-1574
SHEET DESCRIPTION:

#### INSTALLATION DETAILS

|    | DRAWN BY: | DATE:    |
|----|-----------|----------|
| ): | EMK       | 11/12/15 |
|    | DWG #:    | REV.:    |
|    | TDI-163   | В        |
|    | SCALE:    | SHEET    |
|    | 1:2       | 5 OF 5   |





FLANGE REMOVAL NOTE: PARTALLY 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.