MODEL DESIGNATION:

Simonton Impact Resistant Casement Series 42—19 Vinyl Window

MAXIMUM OVERALL NOMINAL SIZE:

Single up to 36" X 62"

DESIGN PRESSURE RATING:

Positive: 50.0 PSF Negative: 50.0 PSF

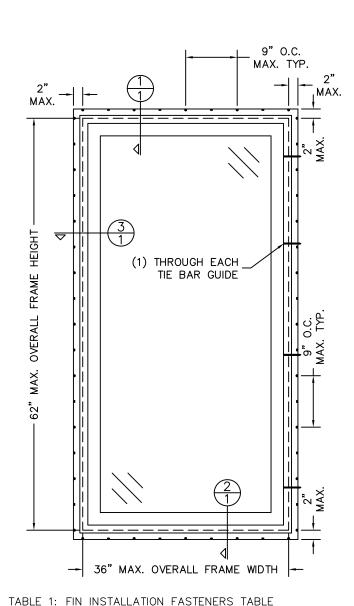
**USABLE CONFIGURATIONS:** 

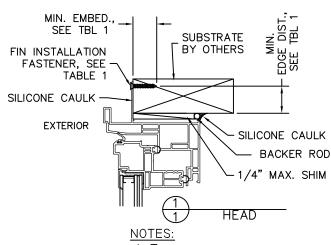
**GENERAL DESCRIPTION:** 

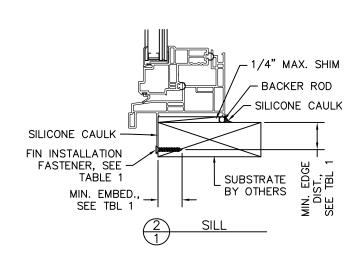
The head, sill, and side jambs are extruded PVC. The wall thickness through which the anchor screw penetrates is a minimum of 0.070".

MINI EDGE

MINI







minimum,

CENS

No. 58201

01/15/2025 LUCAS A. TURNER, P.E.

FL PE # 58201

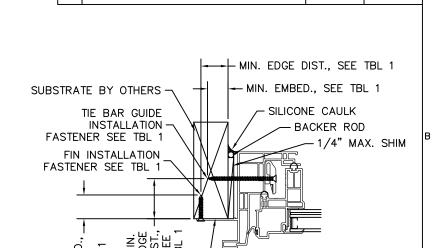
TURNER ENGINEERING &

CONSULTING, INC.

(COA # 29779) 2428 OLD NATCHEZ TRACE

TRAIL, CAMDEN, TN 38320

PH. 941-380-1574



SILICONE CAULK

JAMB

**REVISIONS** 

ADDED NOTES 16 & 17. ADDED BACKER ROD

UPDATED TEST REPORT IN NOTE 15 AND

UPDATED FOR 7TH EDITION 2020 FBC.

ADDED TEST REPORT TO NOTE 15.

2 ADDED TEMPERED OUTBOARD OPTION

UPDATED TO CURRENT FBC.

REVISED BY:

L.A.T.

LMH

IMH

LMH

IMH

DATE:

6/30/15

02/26/16

12/06/20

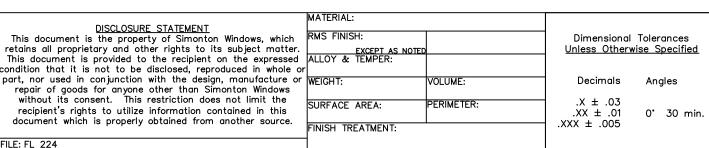
08/29/24

01/15/25

- I. THIS INSTALLATION HAS BEEN EVALUATED FOR USE IN LOCATIONS ADHERING TO THE TEXAS & FLORIDA BUILDING CODES AND WHERE PRESSURE REQUIREMENTS AS DETERMINED BY ASCE 7 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES DO NOT EXCEED THE DESIGN PRESSURE RATINGS HEREIN, FOR USE OUTSIDE THE H.V.H.Z.
- 2. ALL INTERIOR PERIMETER SURFACES AND EXTERIOR FINS OF THE WINDOW MUST BE CAULKED.
- 3. ANCHOR TYPE, SIZE, SPACING, AND EMBEDMENT SHALL BE AS SPECIFIED IN THESE DRAWINGS.
- 4. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FIN INSTALLATIONS TO CONCRETE/MASONRY OPENINGS REQUIRE THE USE OF 2X WOOD BUCKS BETWEEN PRODUCT AND SUBSTRATE, WITH PRODUCT INSTALLATION TO 2X BUCK AS INDICATED ON SHEET I. FOR FLANGE INSTALLATIONS TO CONCRETE/CMU OPENINGS, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, AND INTO SUBSTRATE, SEE SHEET 2. FLANGE INSTALLATIONS TO SOLID CONCRETE OR GROUT-FILLED CMU MAY INCLUDE BUT DO NOT REQUIRE IX WOOD BUCKS BETWEEN PRODUCT AND SUBSTRATE. FLANGE INSTALLATIONS TO HOLLOW CMU REQUIRE THE USE OF IX BUCKS BETWEEN PRODUCT AND SUBSTRATE.
- 5. Wood or masonry openings, bucks, and buck fasteners, by others, shall be properly designed and installed to transfer wind loads to the structure. Substrates shall meet the minimum strength requirements as shown in Table 1, this sheet, and Table 2, sheet 2.
- 6. The responsibility for selection of Simonton products to meet any applicable local laws, building codes, ordinances, or other safety requirements rests solely with the architect, building owner, or contractor.
- 7. SHIMS ARE REQUIRED WHERE GAPS OF GREATER THAN 1/16" EXIST BETWEEN OPENING AND FRAME. MAX. SHIM STACK IS 1/4". SHIMS SHALL BE LOAD-BEARING AND CAPABLE OF TRANSFERRING LOADS TO THE SUBSTRATE.
- 8. WHEN USED IN AREAS REQUIRING IMPACT PROTECTION CONFORMING TO MISSILE LEVEL C, WIND ZONE 2, THIS PRODUCT DOES NOT REQUIRE THE USE OF APPROVED IMPACT RESISTANT SHUTTERS OR OTHER EXTERNAL PROTECTION.
- 9. SEALING AND FLASHING BY OTHERS SHOULD BE APPLIED USING THE ASTM E 2112 METHODOLOGY APPROPRIATE FOR THE OPENING INTO WHICH THE DOOR IS BEING INSTALLED.

  OVERALL WATER PENETRATION RESISTANCE OF THE INSTALLED PRODUCT IS THE RESPONSIBILITY OF OTHERS.
- 10. GLAZING SHALL COMPLY WITH ASTM E 1300 AND SAFETY GLAZING REQUIREMENTS PER FBC SECTION 2406
- II. 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.
- 12. A MINIMUM CENTER-TO-CENTER SPACING OF 3" SHALL BE MAINTAINED BETWEEN ALL ELCO ULTRACONS IN ANY DIRECTION.
- 13. ALL FASTENERS PENETRATING INTO PRESSURE TREATED WOOD SHALL BE CAPABLE OF PREVENTING CORROSION DUE TO REACTION WITH PRESSURE TREATMENT CHEMICALS. ANY DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT REACTIONS IN ACCORDANCE WITH CODE REQUIREMENTS.
- 14. A WIND LOAD DURATION FACTOR CD = 1.6 WAS USED FOR THE ANALYSIS OF WOOD SCREWS ONLY.
- 15. WINDOWS SHALL BE CONSTRUCTED AS SPECIFIED IN TEST REPORTS A6992.01-501-47-R0,B7593.01-501-47-R1, B7702.01-501-47-R0 AND, E0141.01-109-47-R0 BY ARCHITECTURAL TESTING, INC. AND SIMO-003-03-03 BY PRI CONSTRUCTION MATERIAL TECHNOLOGIES, LLC.
- 16. USE A BACKER ROD ON ALL JOINTS >3/4" DEEP AND/OR WIDER THAN 1/4". FINISHED CAULK JOINT SHOULD BE A MINIMUM OF 3/8" DEEP.

| ID                                      | SUBSTRATE TYPE                                       | ANCHOR TYPE                                 | EMBED.         | DISTANCE |
|---|--|---|----------------|----------|
| ANCHOR THROUGH TIE-BAR GUIDE AND FRAME: |  |   |                |          |
| Α                                       | 2X MIN. SOUTHERN PINE WOOD (G=0.55)                  | #8 WOOD SCREW                               | 1"             | 7/16"    |
| В                                       | 1/8" ALUM. 6063-T5 MIN. OR 1/8" STEEL 36 KSI MIN.    | #10 GRADE 5 SELF—<br>TAPPING/DRILLING SCREW | SEE<br>NOTE 11 | 1/2"     |
| ANCHOR THROUGH FIN:                     |  |   |                |          |
| С                                       | 2X MIN. SOUTHERN PINE WOOD (G=0.55)                  | #6 WOOD SCREW                               | 1"             | 3/8"     |
| D                                       | 1/8" ALUM. 6063-T5 MIN. OR<br>1/8" STEEL 36 KSI MIN. | #8 GRADE 5 SELF—<br>TAPPING/DRILLING SCREW  | SEE<br>NOTE 11 | 1/2"     |



SIMON TON B IN0547 6

B IN0547 6

DRAWN BY: DATE:
T.D.D. 04/25/12

CHECKED BY: DATE:

SCALE: SHEET: APPRV'D BY: DATE:

FIT 1 of 2

SERIES:

42-19 IMPACT RESISTANT CASEMENT WINDOW

TITLE:
ELEVATION, FIN INSTALLATION, NOTES, FIN ANCHOR TABLE

2

WILLIAM TURN **REVISIONS:** REVISED BY: DATE: 01/15/2025 LUCAS Á. TÚRNER, P.E. ADDED TEMPERED OUTBOARD OPTION L.A.T. 6/30/15 MODEL DESIGNATION: Simonton Impact Resistant Casement Series 42-19 Vinyl Window FL PE # 58201 JPDATE FOR MULTIPLE SUBSTRATE TYPES. TURNER ENGINEERING & 02/26/16 No. 58201 LMH DDED BACKER ROD MAXIMUM OVERALL NOMINAL SIZE: Single up to 36" X 62" CONSULTING. INC. エエ 12/06/20 UPDATED FOR 7TH EDITION 2020 FBC. LMH (COA # 29779) STATE OF STATE OF CONDA 2428 OLD NATCHEZ TRACE DESIGN PRESSURE RATING: Positive: 50.0 PSF 08/29/24 5 UPDATED TO CURRENT FBC. IMH TRAIL, CAMDEN, TN 38320 Negative: 50.0 PSF PH. 941-380-1574 ADDED TEST REPORT TO NOTE 15. LMH 01/15/25 **USABLE CONFIGURATIONS:** Х 0.500" -SUBSTRATE BY OTHERS **GLASS** PECORA 896-HIS **GENERAL DESCRIPTION:** The head, sill, and side jambs are extruded PVC. The wall thickness BITE GLAZING COMPOUND through which the anchor screw penetrates is a minimum of 0.070". INSTALLATION MIN. EDGE DIST., 1/8" ANNEALED - FASTENER. SEE TBL 2 - 0.060" SOLUTIA PVB SEE TABLE 2 1/8" ANNEALED INSTALLATION FASTENER AIR SPACE THROUGH HINGE TRACK. SEE TABLE 2 - 1/8" ANNEALED OR TEMPERED **EXTERIOR** INTERCEPT STEEL SPACER SYSTEM SILICONE CAULK WITH SINGLE BUTYL SEAL SILICONE CAULK THROUGH HINGE TRACK - BACKER ROD SECOND HOLE FROM END 7/8" INSULATED ANNEALED/TEMPERED IMPACT GLASS 1/4" MAX. SHIM WITH 0.060" PVB INTERLAYER THROUGH IMPACT **HEAD** APPLY SILICONE **SNUBBER** CAULK OVER MIN. EMBED. ຜໍ THROUGH TIE THE HEAD OF SEE TBL 2 BAR GUIDE EACH SCREW SUBSTRATE BY OTHERS SILICONE CAULK INSTALLATION FASTENER **EXTERIOR**  $\overline{\nabla}$ BACKER ROD - 1/4" MAX. SHIM THROUGH SNUBBERS. SEE TABLE 2 1/4" MAX. SHIM -BACKER ROD SILICONE CAULK THROUGH IMPACT SILICONE CAULK **SNUBBER** INSTALLATION FASTENER SEE TABLE 2 OVERALL INSTALLATION FASTENER THROUGH HINGE TRACK. SEE TABLE 2 THROUGH TIE THRU-FRAME INSTALLATION **EXTERIOR** MIN. EDGE BAR GUIDE FASTENER OR INSTALLATION DIST., SEE - SILICONE CAULK FASTENER THROUGH OPERATOR TBL 2 BRACKET. SEE TABLE 2 THROUGH IMPACT **SNUBBER** THROUGH HINGE 2
TRACK - SUBSTRATE BY OTHERS JAMB SILL TABLE 2: 1X INSTALLATION FASTENERS TABLE ID SUBSTRATE TYPE ANCHOR TYPE MIN. EMBED MIN. EDGE DIST. A CONCRETE (3.05 KSI MIN.) 3/16" DEWALT ULTRACON+ 1 - 3/4" HOLLOW OR GROUT-FILLED 1-1/4" 2 1/2" THROUGH OPERATOR 3/16" DEWALT ULTRACON+ CMU (ASTM C90) BRACKET 2X MIN. SOUTHERN PINE WOOD 3/16" DEWALT ULTRACON+ 1-3/8" 3/4" 36" MAX. OVERALL (G=0.55)FRAME WIDTH 2X MIN. SOUTHERN PINE WOOD 3/4" #10 WOOD SCREW 1-3/8" (G=0.55)1/8" ALUM. 6063-T5 MIN. OR SEE NOTE 11 1/2" #10 GRADE 5 SELF-TAPPING/DRILLING SCREW 1/8" STEEL 36 KSI MIN. INSTALLATION HOLE PRE-DRILLED MATERIAL: SIZE: DRAWING NO.: B INO547 DISCLOSURE STATEMENT SIMONTON BY MANUFACTURER RMS FINISH: Dimensional Tolerances This document is the property of Simonton Windows, which RAWN BY: DATE: Unless Otherwise Specified retains all proprietary and other rights to its subject matter. T.D.D. 04/25/12 1 Cochrane Avenue This document is provided to the recipient on the expressed CHECKED BY: DATE: condition that it is not to be disclosed, reproduced in whole o Pennsboro, WV 26415 part, nor used in conjunction with the design, manufacture or VOLUME: Decimals Angles SCALE: SHEET: APPRV'D BY: DATE: repair of goods for anyone other than Simonton Windows 2 of 2 without its consent. This restriction does not limit the  $.x \pm .03$ SURFACE AREA: PERIMETER: recipient's rights to utilize information contained in this .XX ± .01 0° 30 min. document which is properly obtained from another source. 42-19 IMPACT RESISTANT CASEMENT WINDOW  $.XXX \pm .005$ FINISH TREATMENT: ELEVATION, 1X INSTALLATION, 1X ANCHOR TABLE FILE: FL 224