

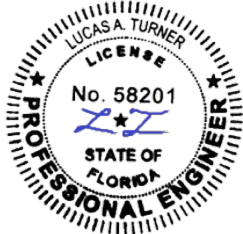
**MODEL DESIGNATION:** Simonton Impact Resistant Casement Series 42–19 Vinyl Window

**MAXIMUM OVERALL NOMINAL SIZE:** Single up to 36" X 62"

**DESIGN PRESSURE RATING:** Positive: 50.0 PSF  
Negative: 50.0 PSF

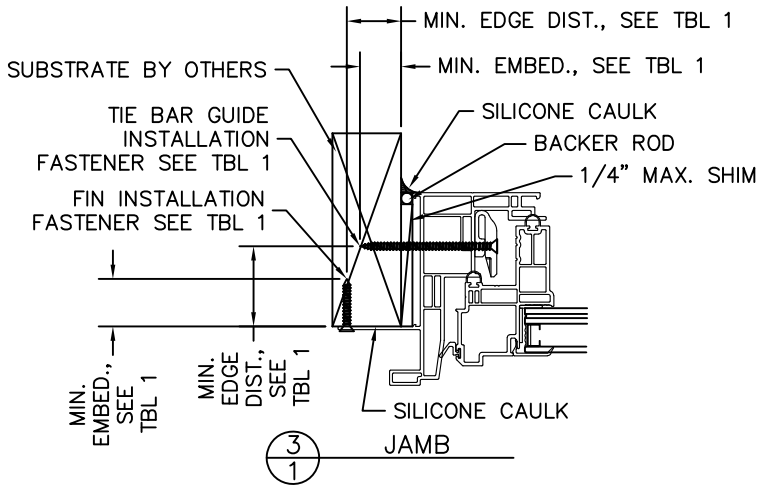
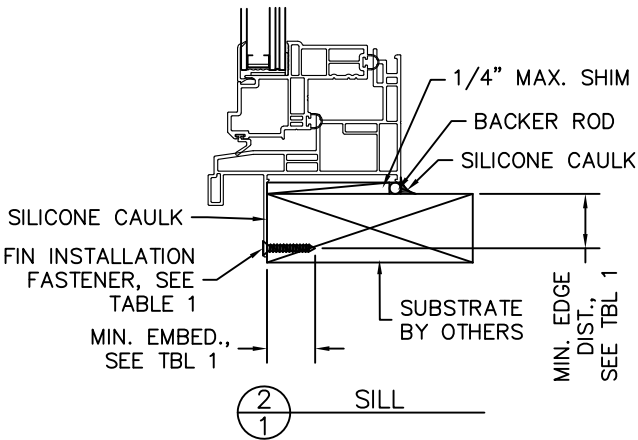
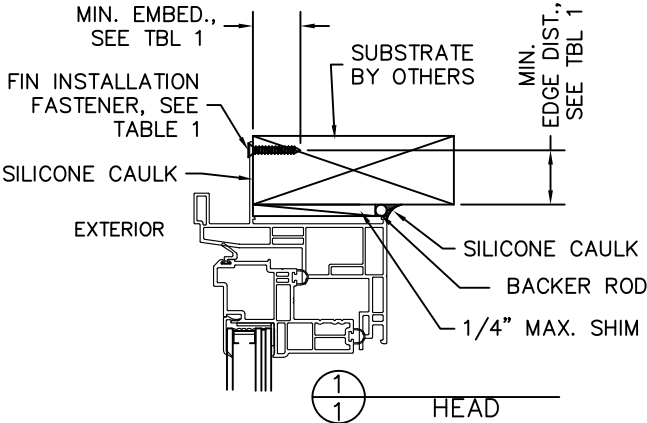
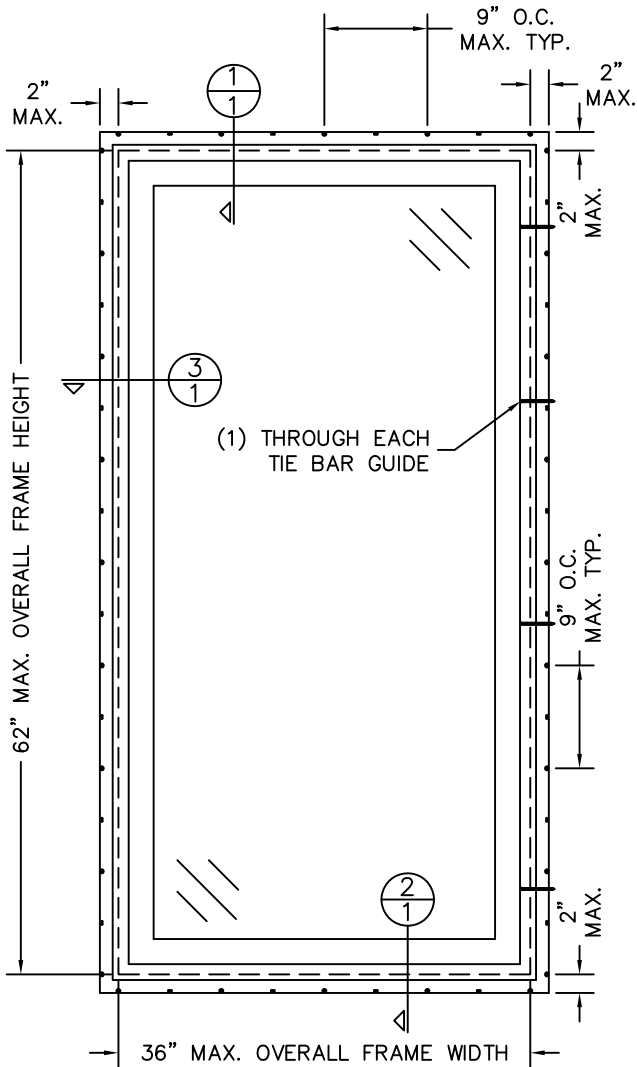
**USABLE CONFIGURATIONS:** X

**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".



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


REV. #:	REVISIONS:	REVISED BY:	DATE:
2	ADDED TEMPERED OUTBOARD OPTION	L.A.T.	6/30/15
3	UPDATED TEST REPORT IN NOTE 15 AND ADDED NOTES 16 & 17. ADDED BACKER ROD.	LMH	02/26/16
4	UPDATED FOR 7TH EDITION 2020 FBC.	LMH	12/06/20
5	UPDATED TO CURRENT FBC.	LMH	08/29/24
6	ADDED TEST REPORT TO NOTE 15.	LMH	01/15/25



- NOTES:**
1. 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 FINNS 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 1. 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 1X WOOD BUCKS BETWEEN PRODUCT AND SUBSTRATE. FLANGE INSTALLATIONS TO HOLLOW CMU REQUIRE THE USE OF 1X 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.
  11. 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-RI, B7702.01-501-47-R0 AND, E0141.01-I09-47-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.

TABLE 1: FIN INSTALLATION FASTENERS TABLE

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

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FILE: FL 224							

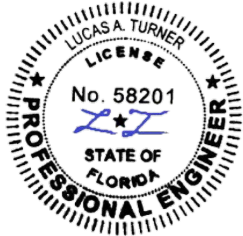
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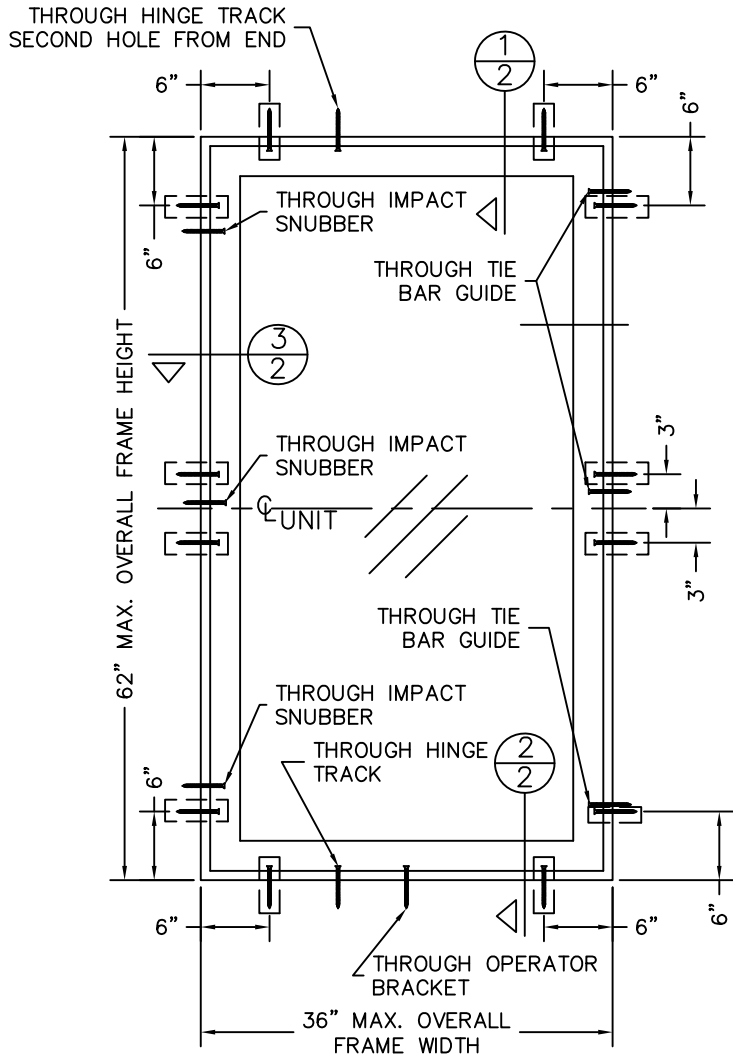
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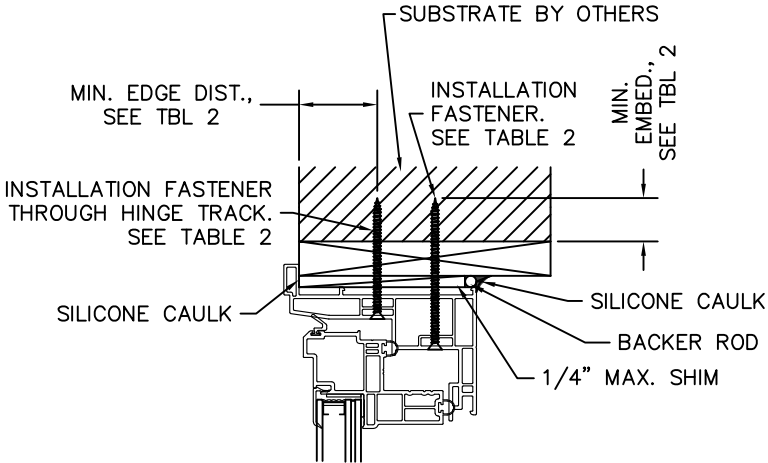


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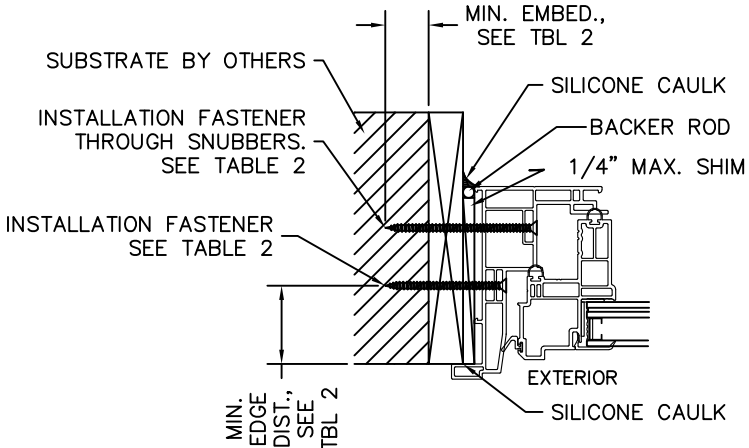
REV. #:	REVISIONS:	REVISED BY:	DATE:
2	ADDED TEMPERED OUTBOARD OPTION	L.A.T.	6/30/15
3	UPDATE FOR MULTIPLE SUBSTRATE TYPES. ADDED BACKER ROD.	LMH	02/26/16
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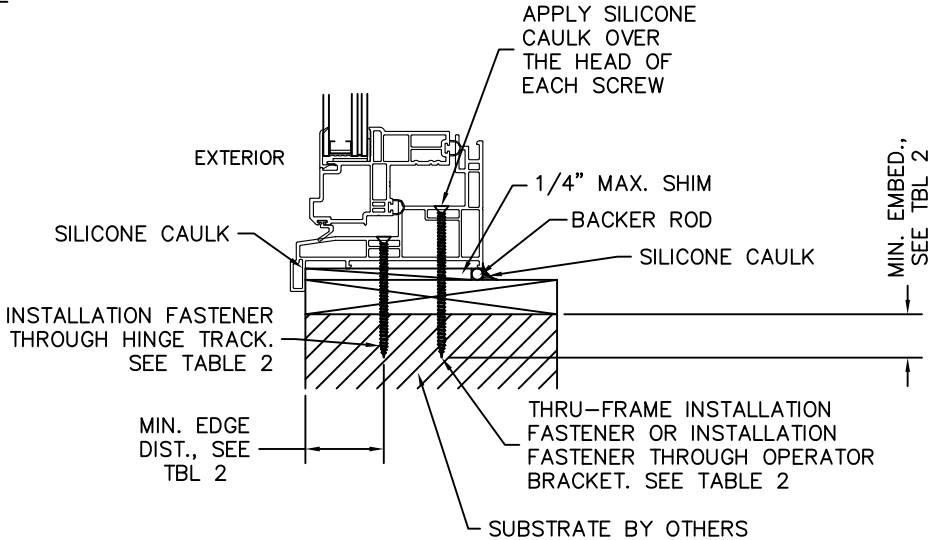
Installation Hole Pre-Drilled by Manufacturer



1  
2 HEAD



3  
2 JAMB



2  
2 SILL

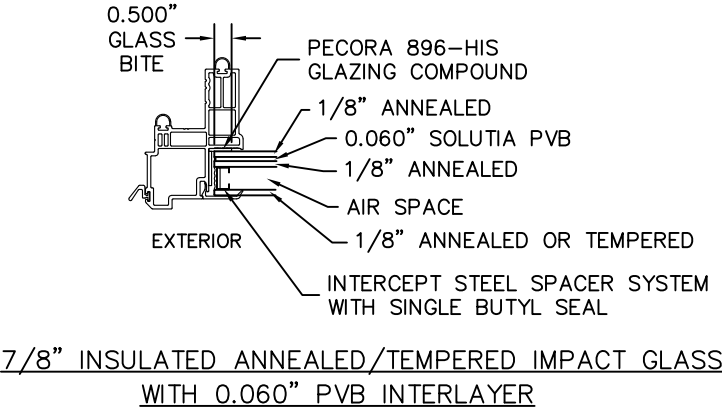


TABLE 2: 1X INSTALLATION FASTENERS TABLE

ID	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED	MIN. EDGE DIST.
A	CONCRETE (3.05 KSI MIN.)	3/16" DEWALT ULTRACON+	1-3/4"	1"
B	HOLLOW OR GROUT-FILLED CMU (ASTM C90)	3/16" DEWALT ULTRACON+	1-1/4"	2 1/2"
C	2X MIN. SOUTHERN PINE WOOD (G=0.55)	3/16" DEWALT ULTRACON+	1-3/8"	3/4"
D	2X MIN. SOUTHERN PINE WOOD (G=0.55)	#10 WOOD SCREW	1-3/8"	3/4"
E	1/8" ALUM. 6063-T5 MIN. OR 1/8" STEEL 36 KSI MIN.	#10 GRADE 5 SELF-TAPPING/DRILLING SCREW	SEE NOTE 11	1/2"

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FILE: FL 224

**MATERIAL:**

RMS FINISH:	
EXCEPT AS NOTED	
ALLOY & TEMPER:	
WEIGHT:	VOLUME:
SURFACE AREA:	PERIMETER:
FINISH TREATMENT:	

**Dimensional Tolerances Unless Otherwise Specified**

Decimals	Angles
.X ± .03	
.XX ± .01	0° 30 min.
.XXX ± .005	

**SIMONTON®**  
WINDOWS  
1 Cochrane Avenue  
Pennsboro, WV 26415

SIZE: B	DRAWING NO.: IN0547	REV.: 6
DRAWN BY: T.D.D.	DATE: 04/25/12	
CHECKED BY:	DATE:	
SCALE: FIT	SHEET: 2 of 2	APPR'VD BY: DATE:
SERIES: 42-19 IMPACT RESISTANT CASEMENT WINDOW		
TITLE: ELEVATION, 1X INSTALLATION, 1X ANCHOR TABLE		