

MODEL DESIGNATION: Simonton Series 11-11 2-Panel and 3-Panel Vinyl Impact Patio Door

MAXIMUM OVERALL NOMINAL SIZE: See Size Chart

DESIGN PRESSURE RATING: See Size Chart

USABLE CONFIGURATIONS: OX or XO, OXO

GENERAL DESCRIPTION: The head, sill, and side jambs are extruded PVC. The wall thickness through which the anchor screw penetrates is a minimum of 0.120".



22
6/18/2018
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 108 X 95 PER NEW TESTING. | T.D.D. | 02/22/11 |
| 3 | UPDATED ANCHOR LOCATIONS PER NEW TESTING. | T.D.D. | 04/12/11 |
| 4 | UPDATED SIZE CHART AND ANCHORS PER TESTING | T.D.D. | 02/03/12 |
| 5 | UPDATED FOR MULTIPLE SUBSTRATE TYPES | L.A.T. | 01/31/15 |
| 6 | ADDED 2 PANEL OPTION. | LMH | 05/14/18 |

NOTES:

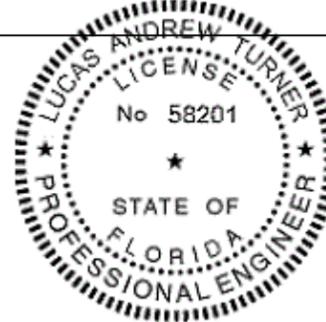
- This installation has been evaluated for use in locations adhering to the Texas & Florida Building Codes and where pressure requirements as determined by ASCE 7 Minimum Design Loads for Buildings and Other Structures do not exceed the design pressure ratings herein, for use outside the H.V.H.Z.
- All interior and exterior perimeter surfaces of the window must be caulked.
- Anchor type, size, spacing, and embedment shall be as specified in these drawings.
- Anchor embedment to substrate shall be beyond wall dressing or stucco. For concrete/CMU openings embedment shall be beyond wood bucks, if used, and into substrate. Installations to solid concrete or grout-filled CMU may include but do not require 1x wood bucks between product and substrate. Installations to hollow CMU require the use of 1x bucks between product and substrate.
- 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. Concrete or masonry substrates shall not be cracked.
- 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.
- 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.
- When used in areas requiring impact protection, this product DOES NOT REQUIRE the use of approved impact resistant shutters or other external protection.
- 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.
- Glazing shall comply with ASTM E 1300-04 and safety glazing requirements per FBC Section 2406.
- 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.
- A minimum center-to-center spacing of 2" shall be maintained between all Elco Ultracons in any direction.
- 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.
- A wind load duration factor Cd = 1.6 was used for the analysis of wood screws only.
- Windows shall be constructed as specified in test reports C0842.01-109-47-R1, C0843.01-109-47-r0, C3517.01-501-47-r0, C4265.01-109-47-r0, C6573.01-109-47-r0, C6575.01-109-47-r0, by Architectural Testing, Inc., and ESP010622P-5 and ESP010622P-6, by Element Materials Technology
- Designation "X" is for Operable Panel and "O" is for Fixed Panel
- Use 100% pure silicone caulk compliant with AAMA 800 Section 1 - Sealant Specifications for use with Architectural Fenestration Products. For more details visit Simonton.com.
- 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.

| SIZE CHART | | |
|--------------------------|---------------|-----------|
| OVERALL SIZE | | DP RATING |
| WIDTH "W" | HEIGHT "H" | |
| 2-PANEL IMPACT PD | | |
| 71" | 79" | ±50 PSF |
| 95" | 79" | |
| 71" | 95" | |
| 95" | 95" | |
| 3-PANEL IMPACT PD | | |
| 107" | 79" | ±50 PSF |
| 143" | 79" | |
| 107" | 95" | |
| 143" | 95" | |

TABLE 1: INSTALLATION FASTENERS TABLE

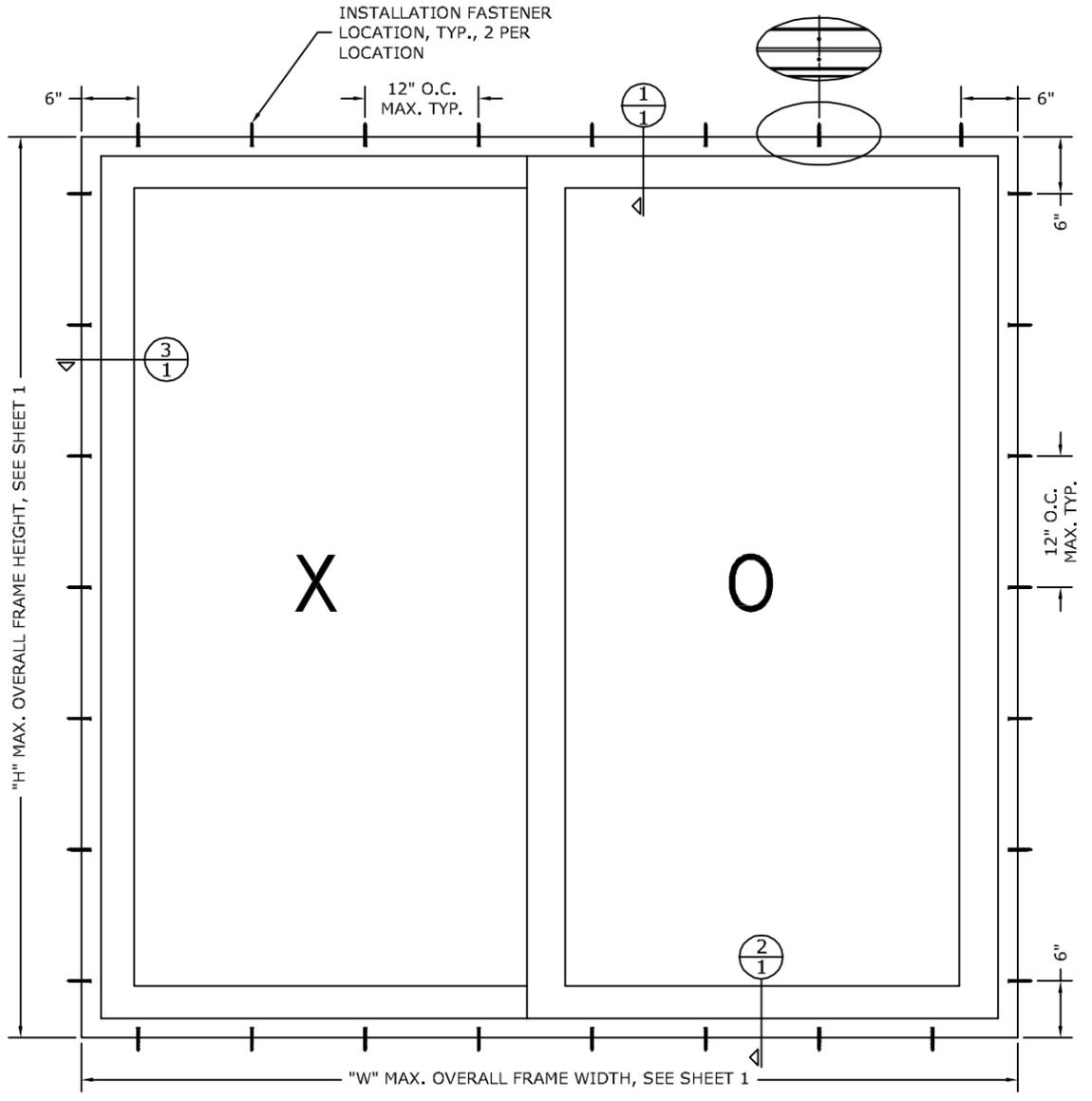
| ID | SUBSTRATE TYPE | ANCHOR TYPE | MIN. EMBED | MIN. EDGE DISTANCE |
|----|---|---|-------------|--------------------|
| A | CONCRETE (2 KSI MIN.) | 3/16" ITW TAPCON | 1-1/2" | 1-1/8" |
| B | HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.) | 3/16" ITW TAPCON | 1" | 2" |
| C | 2X MIN. SOUTHERN PINE WOOD (G=0.55) | 3/16" ITW TAPCON | 1-3/8" | 7/8" |
| D | 2X MIN. SOUTHERN PINE WOOD (G=0.55) | #12 WOOD SCREW | 1-3/8" | 7/8" |
| E | 16 GAUGE (0.060") MIN. STEEL STUD, 33KSI YIELD MIN. | #12-16 ITW TEKS SELF-DRILLING SCREW | FULL THREAD | 1/2" |
| F | 1/8" ALUM. 6063-T5 MIN. OR 1/8" STEEL 36 KSI MIN. | #12 GRADE 5 SELF-TAPPING/DRILLING SCREW | FULL THREAD | 1/2" |

| | | | | | | |
|---|-----------------|--|--|------------------|----------------------------|----------------|
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| | RMS FINISH: | | | DRAWN BY: T.D.D. | DATE: 11/14/08 | |
| | EXCEPT AS NOTED | | | CHECKED BY: | DATE: | |
| | ALLOY & TEMPER: | | | APPRV'D BY: | DATE: | |
| | WEIGHT: | | | VOLUME: | SCALE: FIT | SHEET: 1 of 3 |
| SURFACE AREA: | PERIMETER: | SERIES: 11-11 2-PANEL & 3-PANEL IMPACT PATIO DOOR | | | | |
| FINISH TREATMENT: | | TITLE: NOTES, INSTALL ANCHOR TABLE & SIZE CHART | | | | |

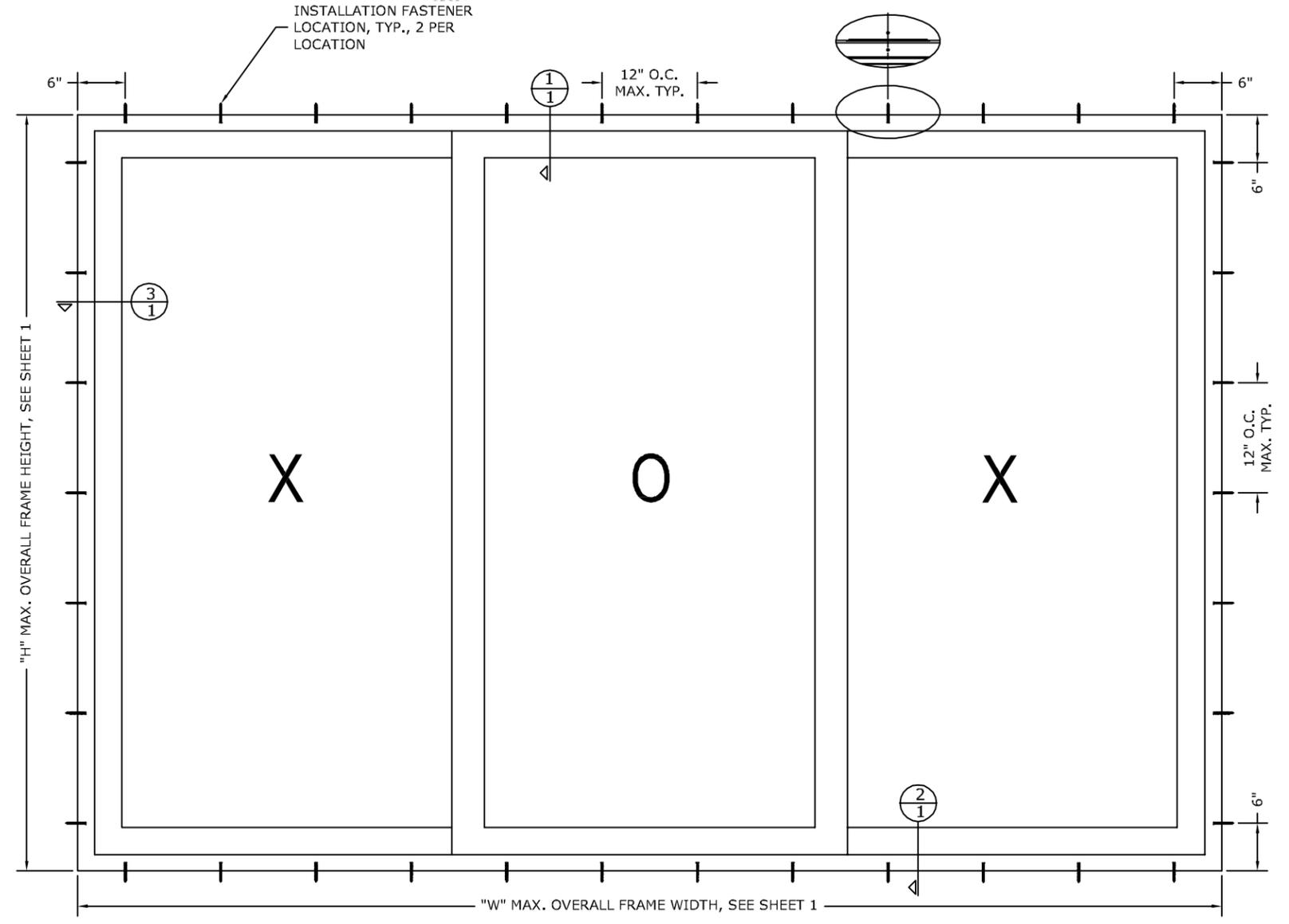


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2-PANEL IMPACT PATIO DOOR ELEVATION & ANCHOR PATTERN



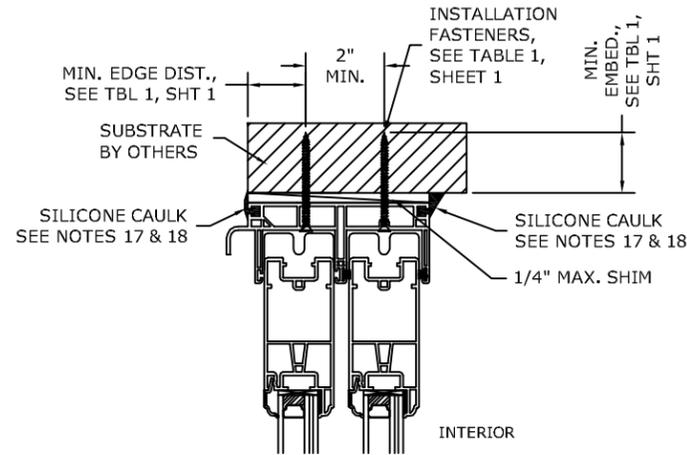
3-PANEL IMPACT PATIO DOOR ELEVATION & ANCHOR PATTERN

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| | <p>EXCEPT AS NOTED</p> <p>VOLUME:</p> <p>PERIMETER:</p> | <p>SCALE: FIT SHEET: 2 of 3</p> | <p>SERIES: 11-11 2-PANEL & 3-PANEL IMPACT PATIO DOOR</p> | <p>DATE:</p> | <p>DATE:</p> |
| | <p>TITLE: ELEVATION & ANCHOR PATTERN</p> | | | | |
| | | | | | |

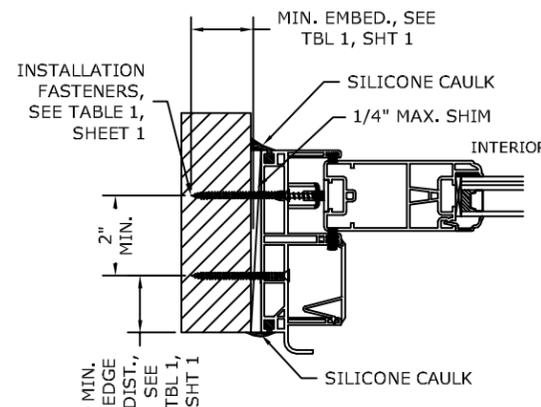


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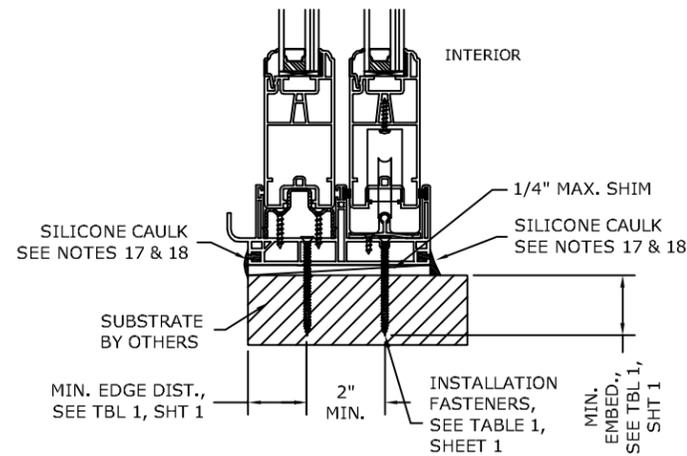
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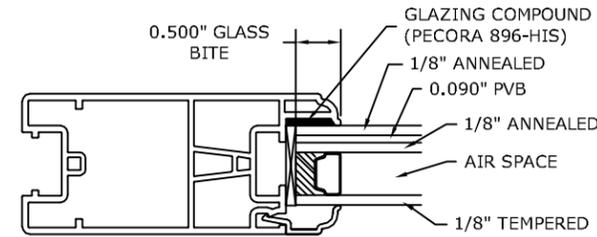
1 HEAD



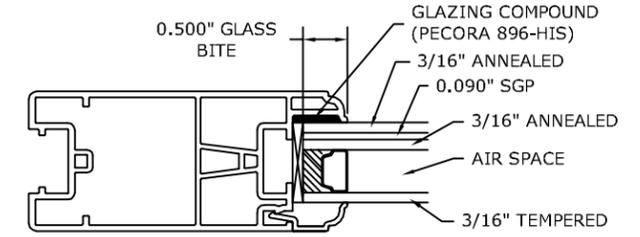
3 JAMB



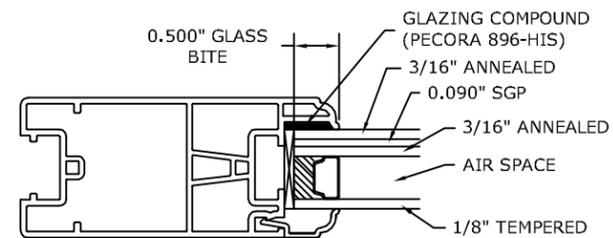
2 SILL



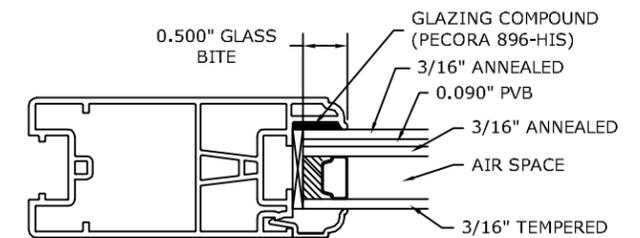
1" INSULATED TEMPERED/ANNEALED IMPACT GLASS WITH 0.090" PVB INTERLAYER (107" X 79" DOOR)
WITH 0.090" PVB INTERLAYER (71" X 79" DOOR)



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FILE: FL 5979.2

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

| | |
|---|------------|
| Dimensional Tolerances Unless Otherwise Specified | |
| Decimals | Angles |
| .X ± .03 | 0° 30 min. |
| .XX ± .01 | |
| .XXX ± .005 | |

SIMONTON
 WINDOWS
 1 Cochrane Avenue
 Pennsboro, WV 26415

| | | |
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| SERIES: 11-11 2-PANEL & 3-PANEL IMPACT PATIO DOOR | | |
| TITLE: CROSS SECTIONS & GLAZING DETAILS | | |