

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".

Lucas Turner
2026.01.22
15:08:23
-06'00'



01/06/2026
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:
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
7	UPDATED FOR 7TH EDITION 2020 FBC.	LMH	12/06/20
8	UPDATED TO CURRENT FBC.	LMH	01/06/26

NOTES:

1. THIS INSTALLATION HAS BEEN EVALUATED AND IS FOR 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 AND EXTERIOR PERIMETER SURFACES 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. 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.
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. CONCRETE OR MASONRY SUBSTRATES SHALL NOT BE CRACKED.
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, 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.
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 $C_d = 1.6$ WAS USED FOR THE ANALYSIS OF WOOD SCREWS ONLY.
15. 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
16. DESIGNATION "X" IS FOR OPERABLE PANEL AND "O" IS FOR FIXED PANEL.
17. 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.

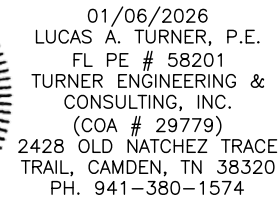
SIZE CHART

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"	

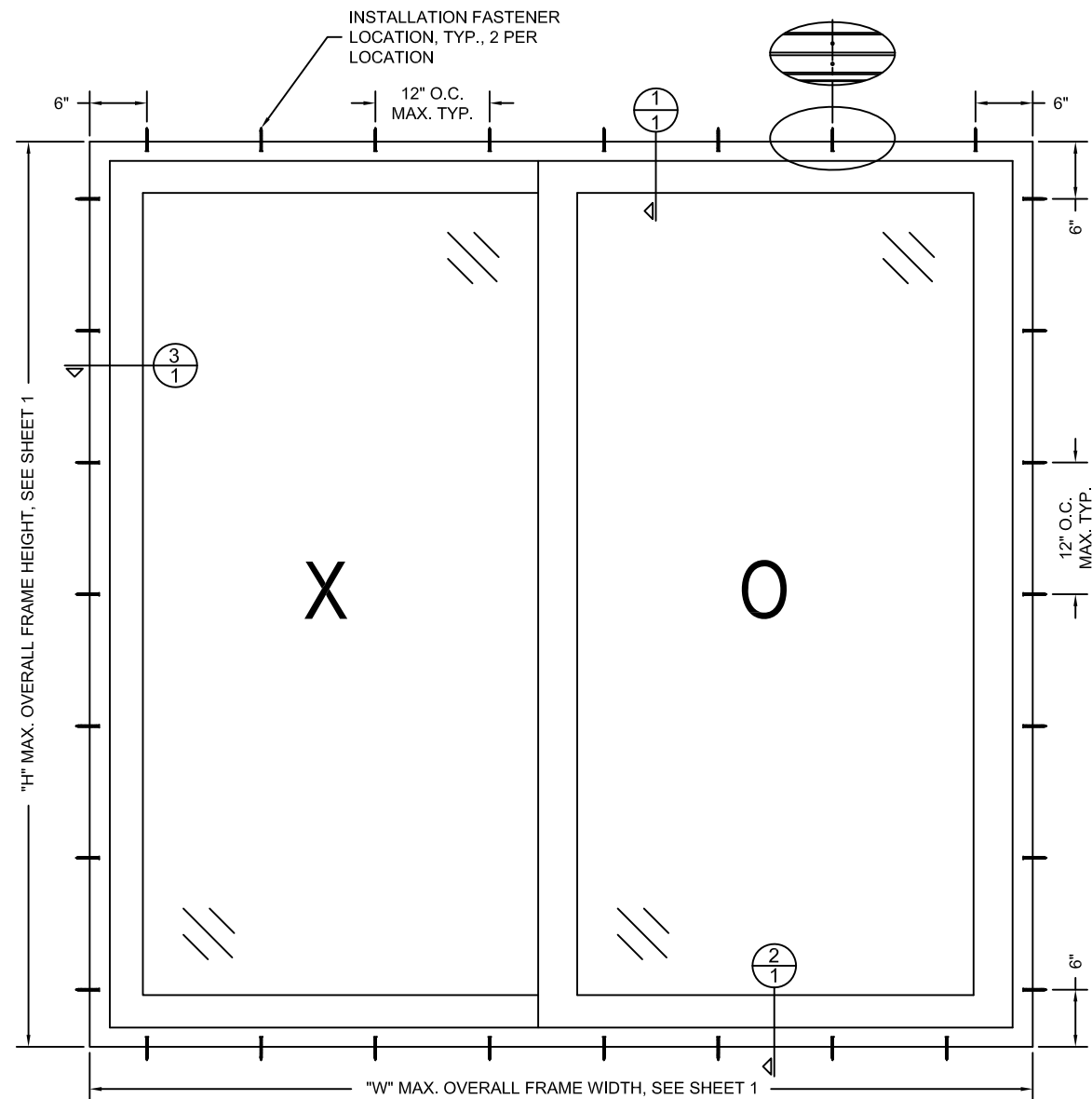
TABLE 1: INSTALLATION FASTENERS TABLE

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"

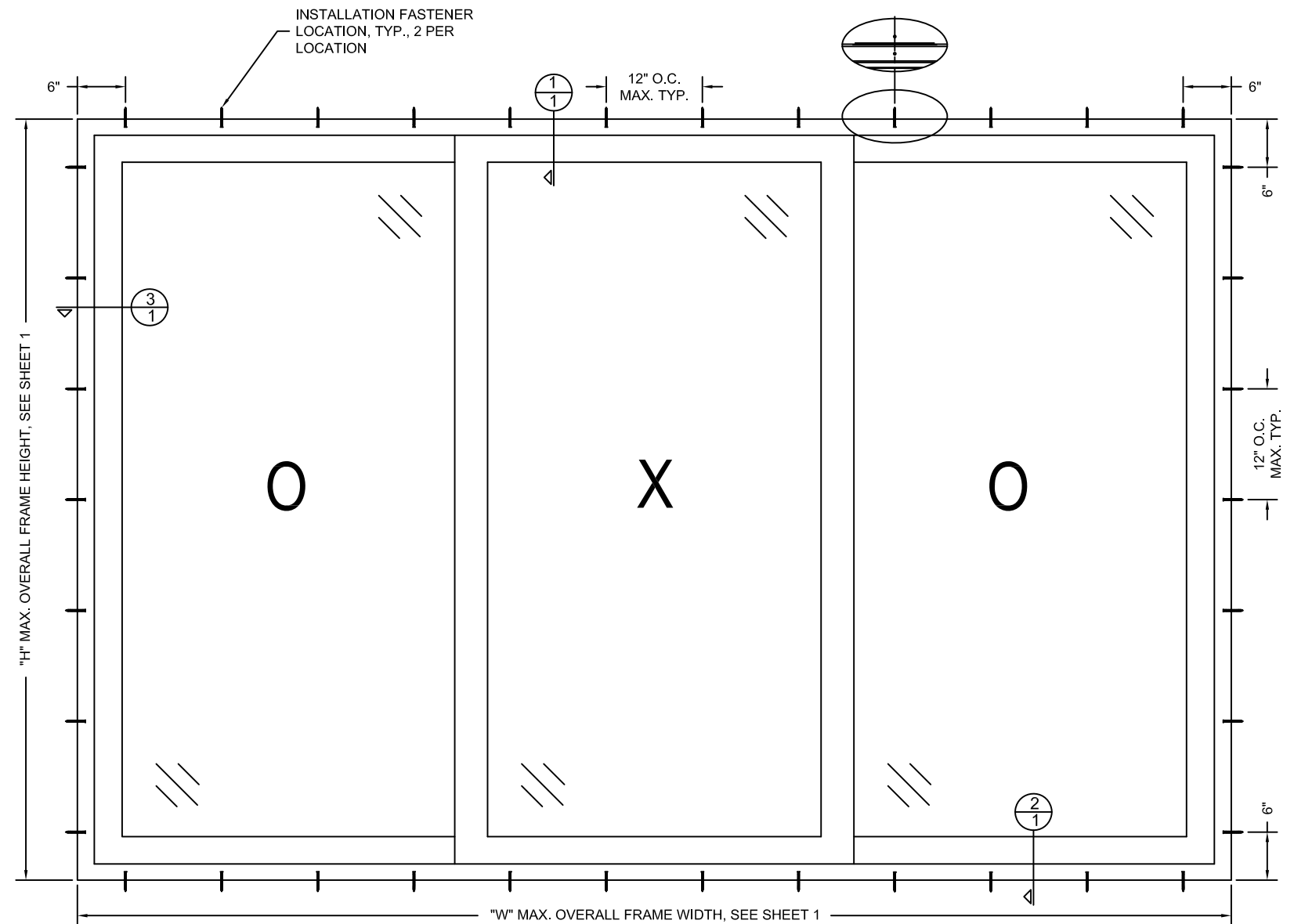
DISCLOSURE STATEMENT This document is the property of Simonton Windows, which retains all proprietary and other rights to its subject matter. This document is provided to the recipient on the expressed condition that it is not to be disclosed, reproduced in whole or part, nor used in conjunction with the design, manufacture or repair of goods for anyone other than Simonton Windows without its consent. This restriction does not limit the recipient's rights to utilize information contained in this document which is properly obtained from another source. FILE: FL 5979	MATERIAL:		Dimensional Tolerances Unless Otherwise Specified DecimalsAngles .X ± .03 .XX ± .01 .XXX ± .005 0° 30 min.	SIMONTON® W I N D O W S 1 Cochrane Avenue Pennsboro, WV 26415 SIZE: B DRAWING NO.: IN0371 REV.: 8 DRAWN BY: T.D.D. DATE: 11/14/08 CHECKED BY: DATE: SCALE: FIT SHEET: 1 of 3 APPRV'D BY: DATE: SERIES: 11-11 2-PANEL & 3-PANEL IMPACT PATIO DOOR TITLE: NOTES, INSTALL ANCHOR TABLE & SIZE CHART
	RMS FINISH:	EXCEPT AS NOTED		
	ALLOY & TEMPER:			
	WEIGHT:	VOLUME:		
	SURFACE AREA:	PERIMETER:		
	FINISH TREATMENT:			



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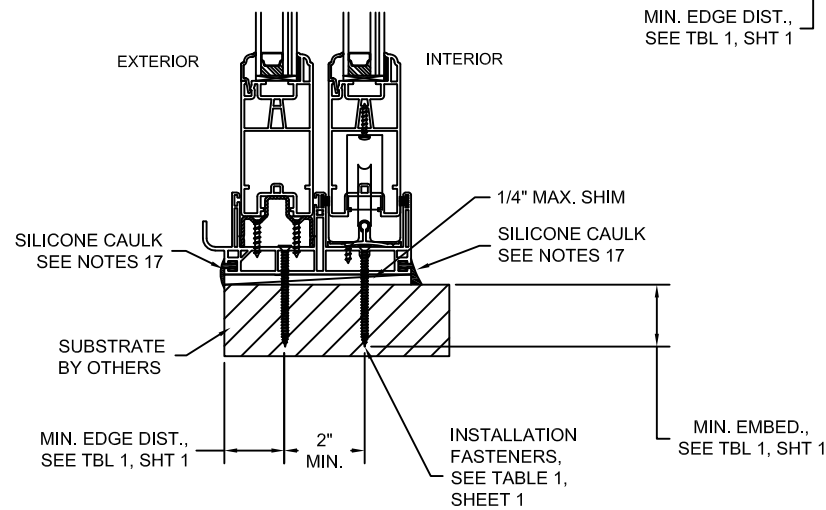
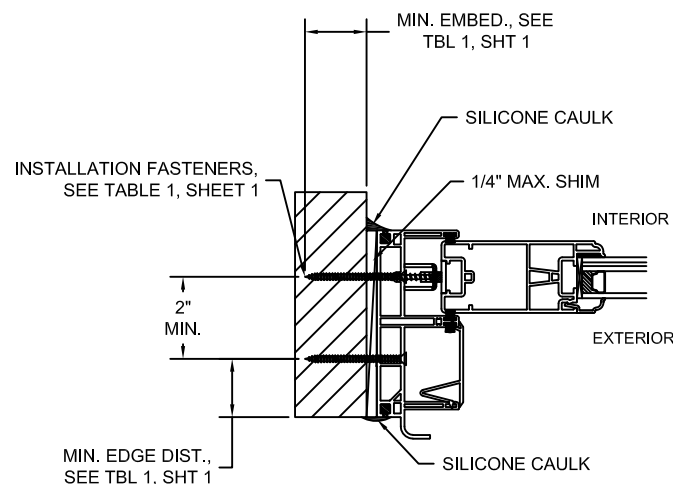
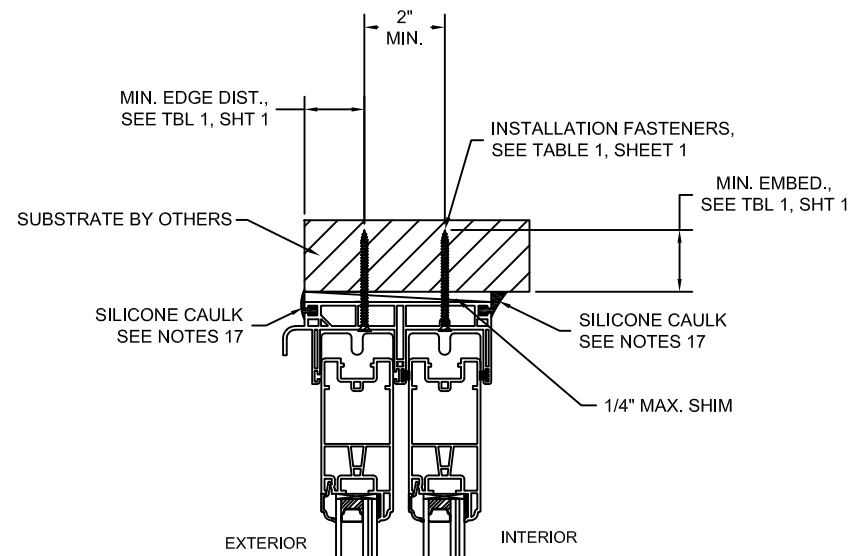


2-PANEL IMPACT PATIO DOOR ELEVATION & ANCHOR PATTERN



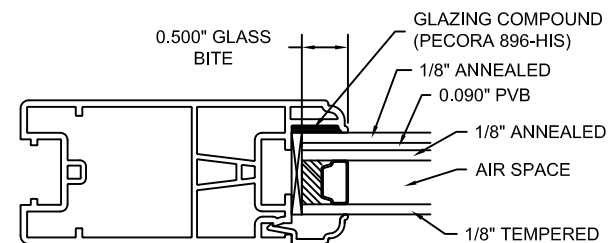
3-PANEL IMPACT PATIO DOOR ELEVATION & ANCHOR PATTERN

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	RMS FINISH:				DRAWN BY: T.D.D.	DATE: 11/14/08	
	EXCEPT AS NOTED				CHECKED BY:	DATE:	
	ALLOY & TEMPER:						
	WEIGHT:	VOLUME:					
	SURFACE AREA:	PERIMETER:					
FINISH TREATMENT:							

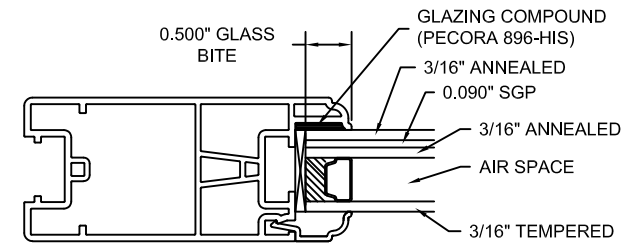


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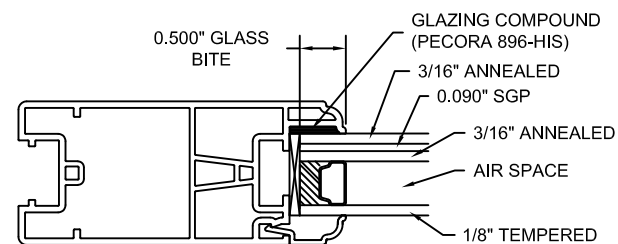
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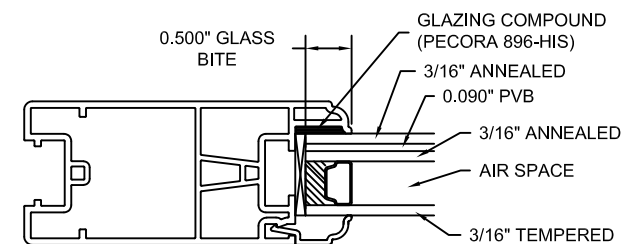
1" INSULATED TEMPERED/ANNEALED IMPACT GLASS
WITH 0.090" PVB INTERLAYER (107" X 79" DOOR)
WITH 0.090" PVB INTERLAYER (71" X 79" DOOR)



1" INSULATED TEMPERED/ANNEALED IMPACT GLASS
WITH 0.090" SGP INTERLAYER (143" X 95" DOOR)
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FILE: FL 5979

MATERIAL:

RMS FINISH:

ty	EXCEPT AS NOTED
ALLOY & TEMPER	

WEIGHT:	
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VOLUME:

SURFACE AREA:

FINISH TREATMENT:

Dimensional Tolerances
Unless Otherwise Specified

Decimals	Angles
0.0001	3.6×10^{-5}
0.0002	7.2×10^{-5}
0.0003	1.08×10^{-4}
0.0004	1.44×10^{-4}
0.0005	1.8×10^{-4}
0.0006	2.16×10^{-4}
0.0007	2.52×10^{-4}
0.0008	2.88×10^{-4}
0.0009	3.24×10^{-4}
0.0010	3.6×10^{-4}
0.0011	3.96×10^{-4}
0.0012	4.32×10^{-4}
0.0013	4.68×10^{-4}
0.0014	5.04×10^{-4}
0.0015	5.4×10^{-4}
0.0016	5.76×10^{-4}
0.0017	6.12×10^{-4}
0.0018	6.48×10^{-4}
0.0019	6.84×10^{-4}
0.0020	7.2×10^{-4}
0.0021	7.56×10^{-4}
0.0022	7.92×10^{-4}
0.0023	8.28×10^{-4}
0.0024	8.64×10^{-4}
0.0025	9.0×10^{-4}
0.0026	9.36×10^{-4}
0.0027	9.72×10^{-4}
0.0028	1.008×10^{-3}
0.0029	1.044×10^{-3}
0.0030	1.08×10^{-3}
0.0031	1.116×10^{-3}
0.0032	1.152×10^{-3}
0.0033	1.188×10^{-3}
0.0034	1.224×10^{-3}
0.0035	1.26×10^{-3}
0.0036	1.296×10^{-3}
0.0037	1.332×10^{-3}
0.0038	1.368×10^{-3}
0.0039	1.404×10^{-3}
0.0040	1.44×10^{-3}
0.0041	1.476×10^{-3}
0.0042	1.512×10^{-3}
0.0043	1.548×10^{-3}
0.0044	1.584×10^{-3}
0.0045	1.62×10^{-3}
0.0046	1.656×10^{-3}
0.0047	1.692×10^{-3}
0.0048	1.728×10^{-3}
0.0049	1.764×10^{-3}
0.0050	1.8×10^{-3}
0.0051	1.836×10^{-3}
0.0052	1.872×10^{-3}
0.0053	1.908×10^{-3}
0.0054	1.944×10^{-3}
0.0055	1.98×10^{-3}
0.0056	2.016×10^{-3}
0.0057	2.052×10^{-3}
0.0058	2.088×10^{-3}
0.0059	2.124×10^{-3}
0.0060	2.16×10^{-3}
0.0061	2.196×10^{-3}
0.0062	2.232×10^{-3}
0.0063	2.268×10^{-3}
0.0064	2.304×10^{-3}
0.0065	2.34×10^{-3}
0.0066	2.376×10^{-3}
0.0067	2.412×10^{-3}
0.0068	2.448×10^{-3}
0.0069	2.484×10^{-3}
0.0070	2.52×10^{-3}
0.0071	2.556×10^{-3}
0.0072	2.592×10^{-3}
0.0073	2.628×10^{-3}
0.0074	2.664×10^{-3}
0.0075	2.7×10^{-3}
0.0076	2.736×10^{-3}
0.0077	2.772×10^{-3}
0.0078	2.808×10^{-3}
0.0079	2.844×10^{-3}
0.0080	2.88×10^{-3}
0.0081	2.916×10^{-3}
0.0082	2.952×10^{-3}
0.0083	2.988×10^{-3}
0.0084	3.024×10^{-3}
0.0085	3.06×10^{-3}
0.0086	3.096×10^{-3}
0.0087	3.132×10^{-3}
0.0088	3.168×10^{-3}
0.0089	3.204×10^{-3}
0.0090	3.24×10^{-3}
0.0091	3.276×10^{-3}
0.0092	3.312×10^{-3}
0.0093	3.348×10^{-3}
0.0094	3.384×10^{-3}
0.0095	3.42×10^{-3}
0.0096	3.456×10^{-3}
0.0097	3.492×10^{-3}
0.0098	3.528×10^{-3}
0.0099	3.564×10^{-3}
0.0100	3.6×10^{-3}

$$.X \pm .03$$

.XXX ± .005



SIZE:	DRAWING NO.:	REV.:
B	IN0371	8

DRAWN BY:	DATE:
T.D.D.	11/14/08

CHECKED BY:	DATE:
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SCALE: FIT	SHEET: 3 of 3
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APPRV'D BY:	DATE:
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SERIES:	11-11 2-PANEL & 3-PANEL IMPACT PATIO DOOR		
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TITLE:	CROSS SECTIONS & GLAZING DETAILS
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