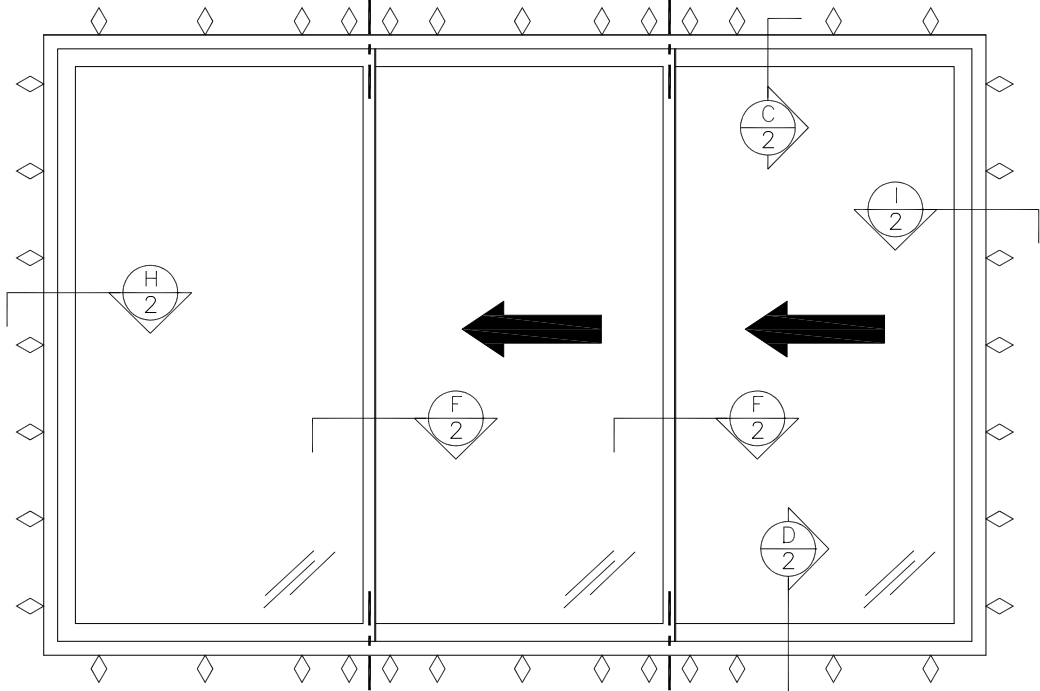
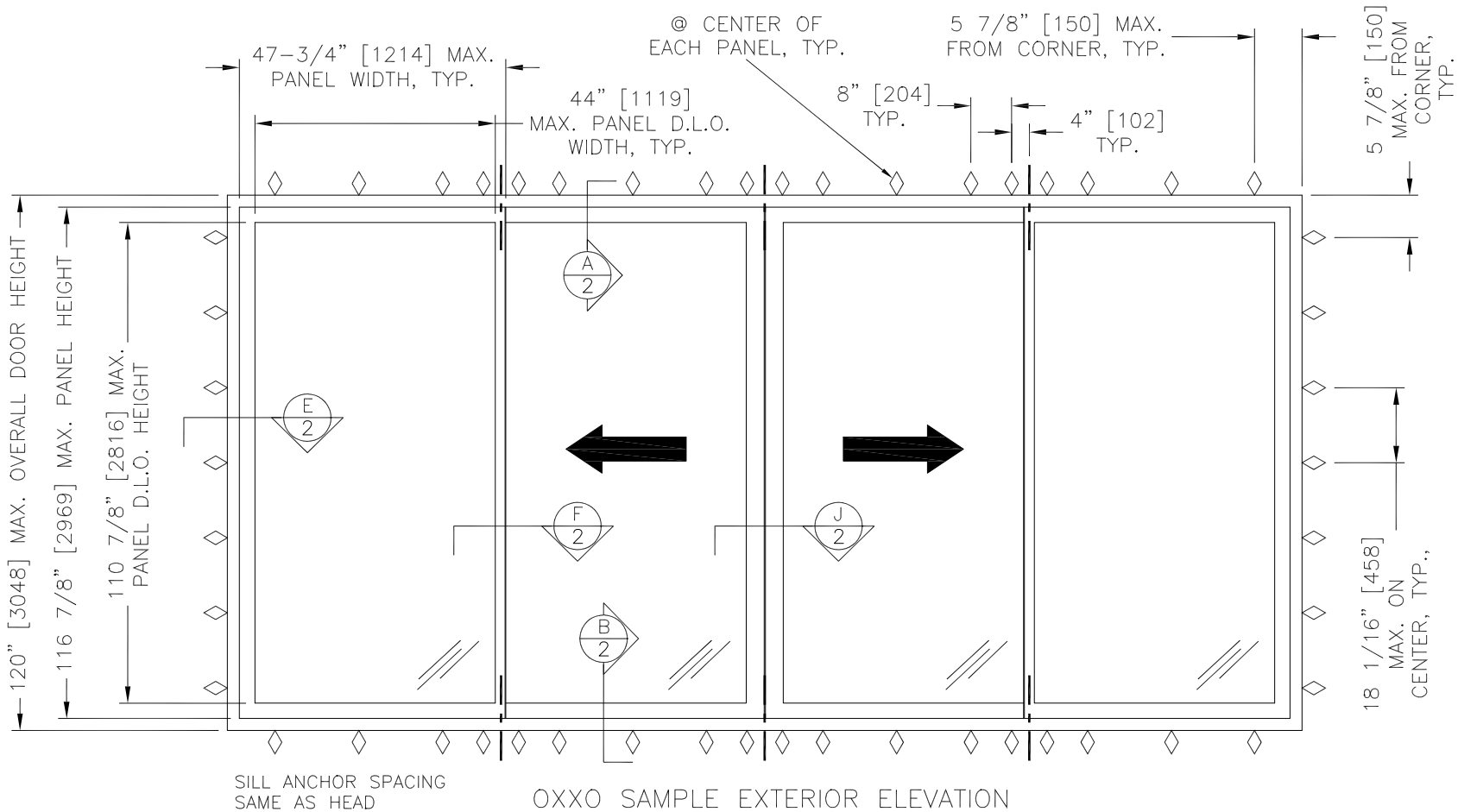
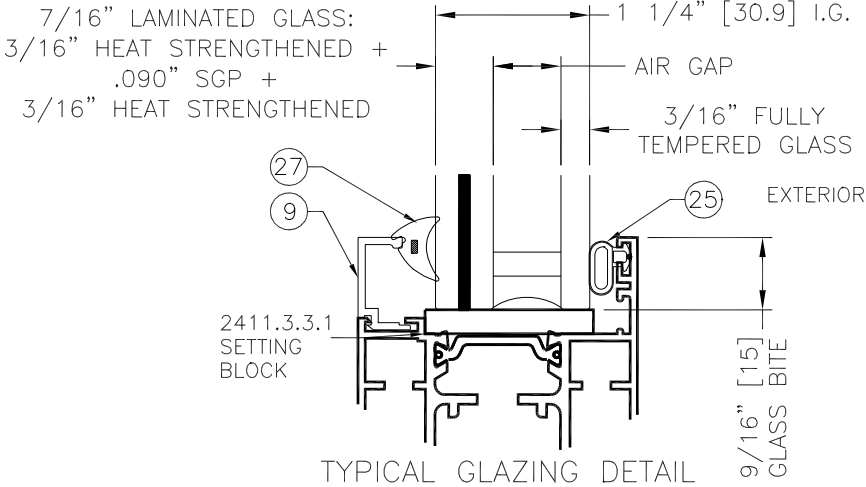


ORIGIN OS29 SLIDING GLASS DOORS – LARGE MISSILE IMPACT

SHEET	DESCRIPTION
1.....	ELEVATIONS, GEN. NOTES, TYPICAL GLAZING DETAIL
2.....	SECTION DETAILS
3.....	ANCHORAGE DETAILS, NOTES
4.....	B.O.M., PART DRAWINGS



DESIGN PRESSURE RATING (ASD, PSF)	IMPACT RATING
+50/-50	LARGE AND SMALL MISSILE IMPACT



GENERAL NOTES

1. THIS PRODUCT, FABRICATED AND ANCHORED AS DETAILED IN THIS DRAWING, IS LARGE AND SMALL MISSILE IMPACT RESISTANT AND DOES NOT REQUIRE THE USE OF IMPACT PROTECTIVE DEVICES (SHUTTERS) IN WINDBORNE DEBRIS REGIONS.

2. THIS PRODUCT HAS BEEN TESTED TO TAS 201/202/203, AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CURRENT EDITION, INCLUDING THE HIGH VELOCITY HURRICANE ZONE.

3. ALLOWABLE CONFIGURATIONS: XX, XO, OX, XXX, OXX, XXO, OX XO

4. THE DESIGN PRESSURE RATINGS AS SHOWN THIS SHEET ARE AS LIMITED BY ASTM E-1300 GLASS TABLES, TESTED WATER, STRUCTURAL AND IMPACT/CYCLIC PRESSURES.

5. THE 4/3 ALLOWABLE STRESS INCREASE FACTOR (SHORT-TERM INCREASE FACTOR) HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF ANCHORAGE INTO WOOD SUBSTRATE.

6. INSTALLATION OF 1X OR 2X WOOD BUCKS TO THE SUBSTRATE TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (A.H.J.). BUCKING, OPENINGS, & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED BY OTHERS IN ACCORDANCE WITH THE FBC TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE. ADEQUACY OF THE STRUCTURE TO RECEIVE THESE LOADS SHALL BE VERIFIED BY THE CONTRACTOR OR A.H.J.

7. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE COATED OR OTHERWISE PROTECTED PER FBC CHAPTER 20 TO PREVENT GALVANIC REACTIONS. WOOD BUCKS, IF USED, SHALL BE PRESSURE TREATED, WITH EITHER A TREATMENT OR COATING COMPATIBLE WITH 6063-T5. ALL ANCHORS USED SHALL BE OF A MATERIAL OR HAVE A COATING COMPATIBLE WITH THE PRESSURE TREATED WOOD BUCKS AND ALL OTHER WINDOW MATERIALS.

8. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, OR AS APPROVED, SIGNED, AND SEALED BY A FLORIDA-REGISTERED PROFESSIONAL ENGINEER ON A SITE-SPECIFIC BASIS.

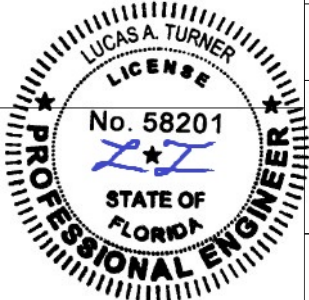
9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS AND IS NOT ADDRESSED BY THIS DOCUMENT.



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ORIGIN OS29
SLIDING GLASS DOOR
LARGE MISSILE IMPACT

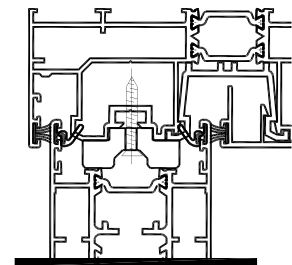
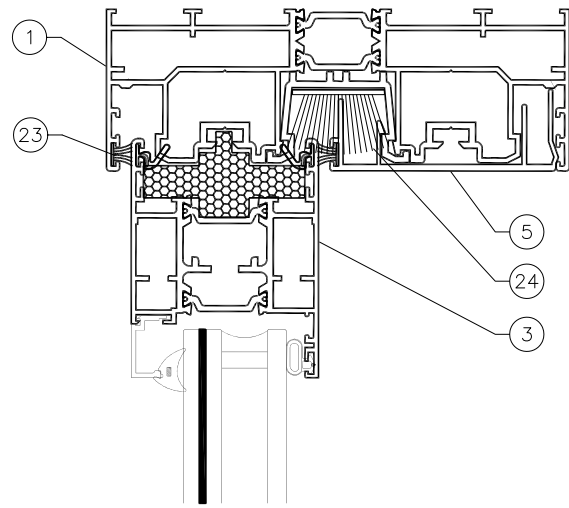
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DRAWN BY:	LAT
DATE:	5/7/2024
SCALE:	NTS
REVISION:	
DRAWING #	FPA-OS29-LM
SHEET DESCRIPTION	NOTES, ELEV., TYP. GLAZING
SHEET	1 of 4

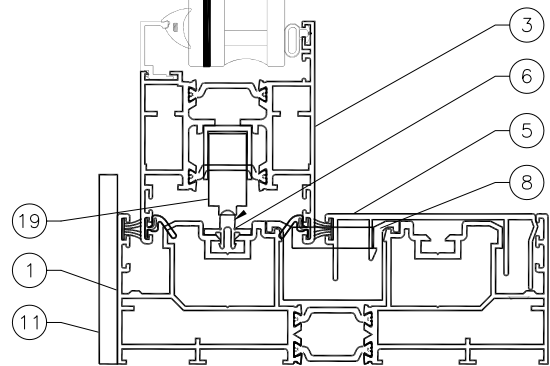
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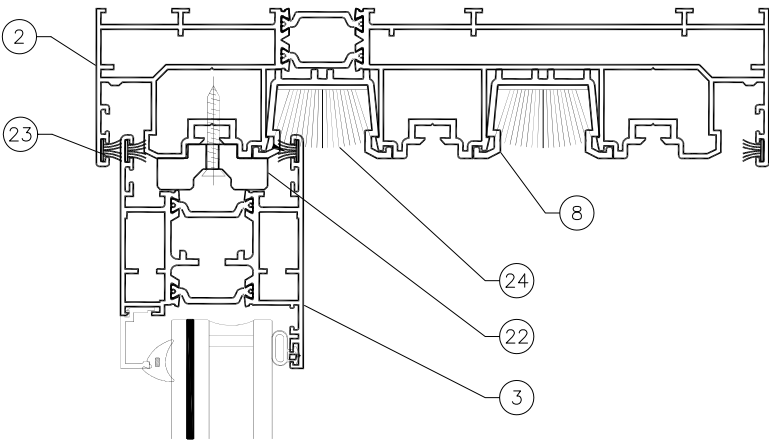
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EXTERIOR

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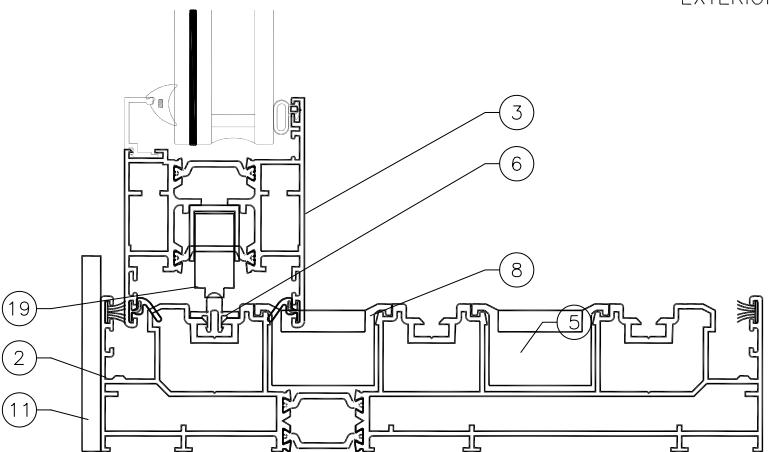


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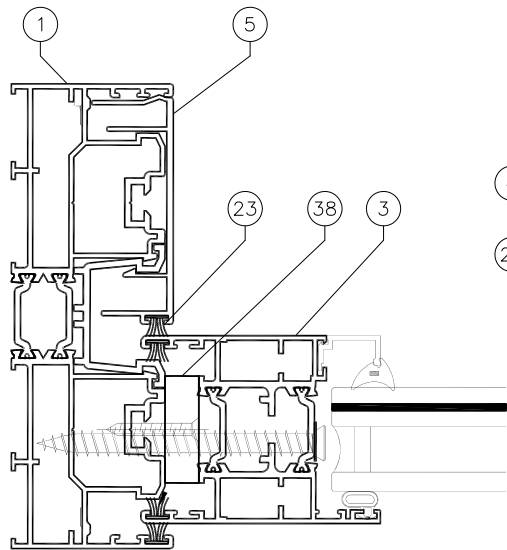


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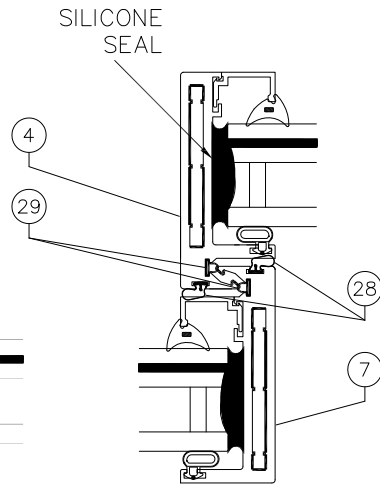


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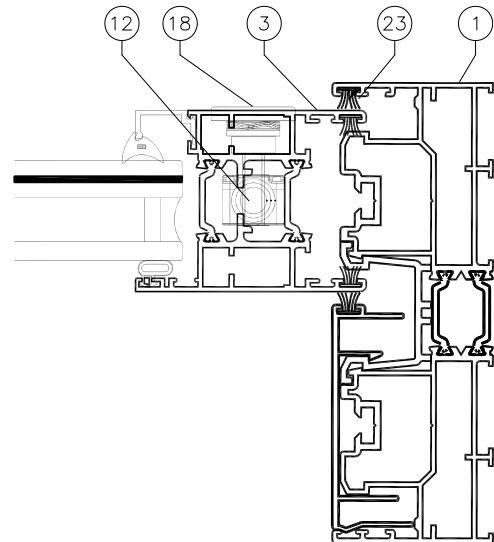


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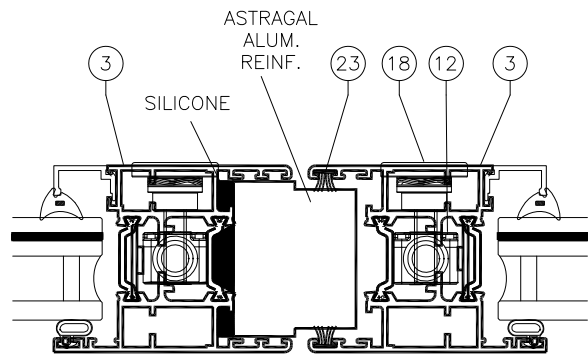


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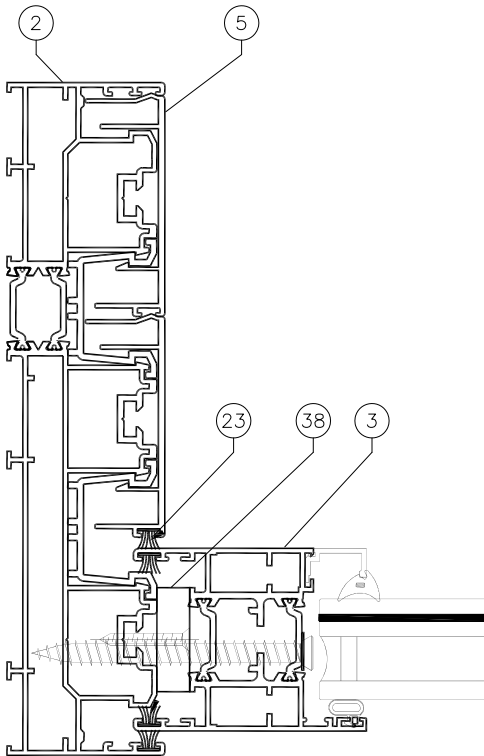
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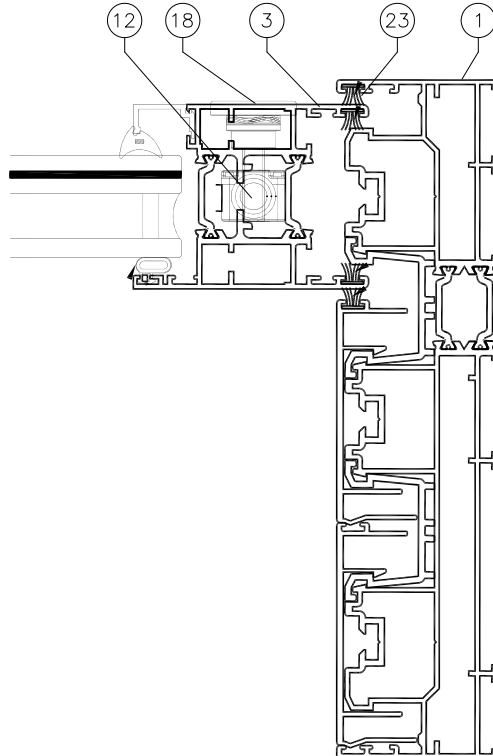


EXTERIOR

H
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I
2



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ORIGIN OS29
SLIDING GLASS DOOR
LARGE MISSILE IMPACT

DRAWN BY:

LAT

DATE:

5/7/2024

SCALE:

NTS

REVISION:

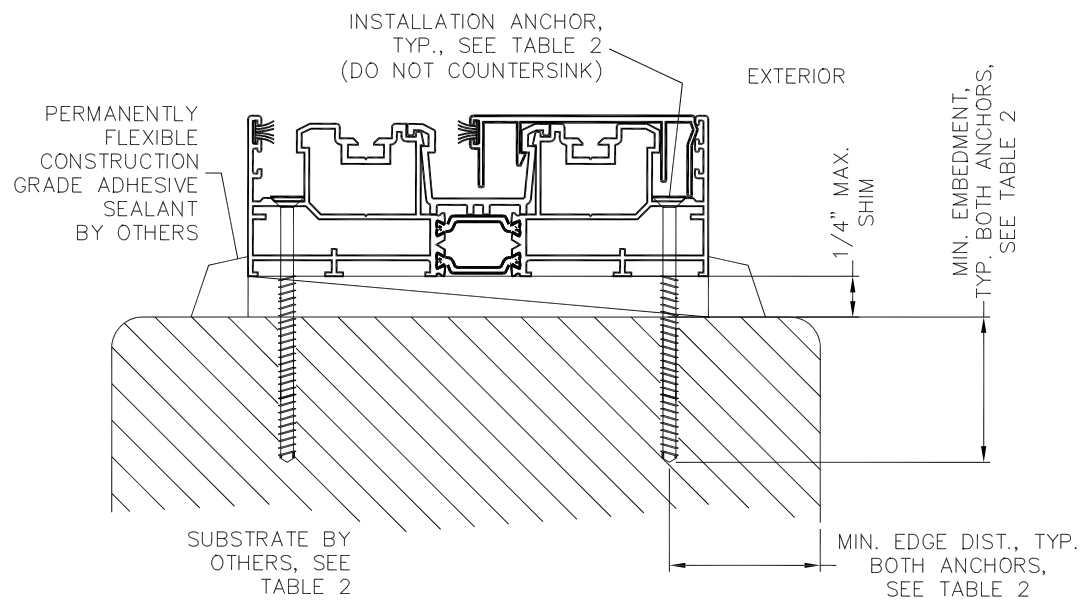
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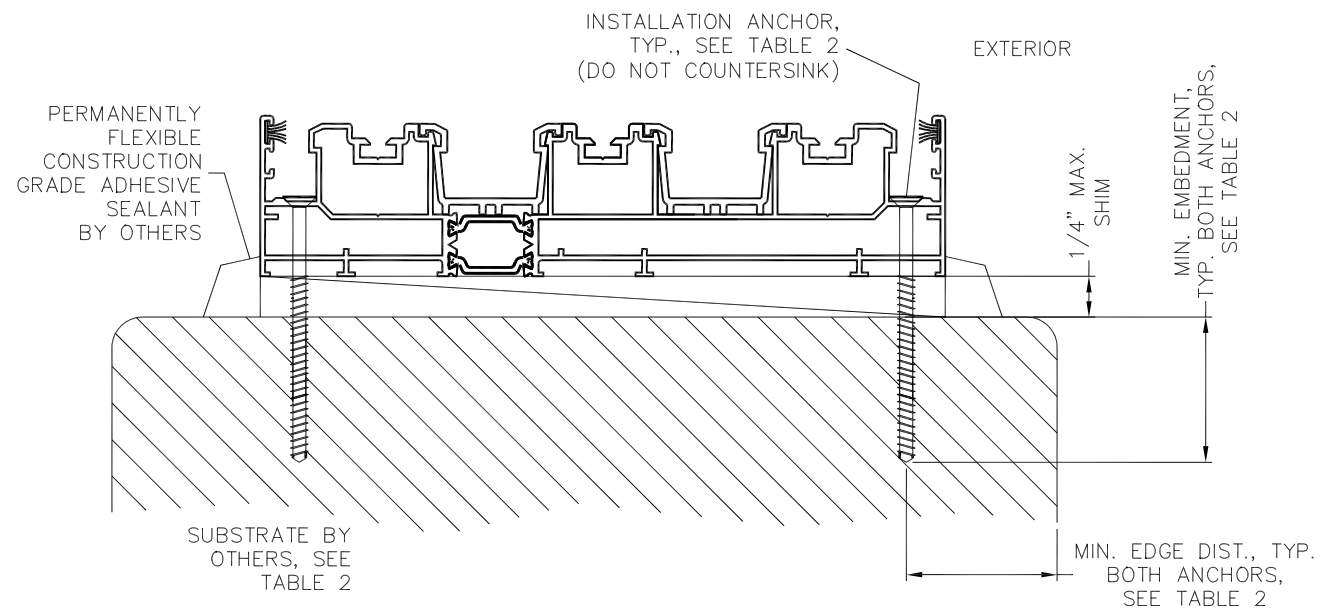
SHEET DESCRIPTION

SECTION
DETAILS

SHEET
2 of 4



TYPICAL INSTALLATION AT DOUBLE FRAME HEAD, SILL, AND JAMB



TYPICAL INSTALLATION AT TRIPLE FRAME HEAD, SILL, AND JAMB

TABLE 2: INSTALLATION ANCHOR REQUIREMENTS TABLE

SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED	MIN. EDGE DIST.
CONCRETE (2.0 KSI MIN)	1/4" ITW TAPCON W/ ADVANCED THREADFORM TECH.	1"	1 1/2"
HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	1/4" ITW TAPCON W/ ADVANCED THREADFORM TECH.	1"	2"
CONCRETE (3.05 KSI MIN.)	1/4" DEWALT ULTRACON+	1-3/8"	1"
HOLLOW OR GROUT-FILLED CMU (ASTM C90)	1/4" DEWALT ULTRACON+	1-1/4"	1"
2X MIN. SPRUCE-PINE-FIR WOOD (G=0.42)	#12 GRADE 5 WOOD SCREW	1-3/8"	1"
16 GAUGE (0.060") MIN. STEEL STUD 33KSI YIELD MIN.	#12-24 ITW TEKS SELF-DRILLING SCREW	SEE ANCHOR NOTE 5	1/2"
1/8" ALUM. 6063-T5 MIN. OR 1/8" STEEL 36 KSI MIN.	#12 GRADE 5 SELF-TAPPING/ DRILLING SCREW	SEE ANCHOR NOTE 5	1/2"

GENERAL ANCHOR NOTES:

1. INSTALL TWO ANCHORS AS SHOWN ABOVE, AT EACH LOCATION SHOWN IN THE ELEVATIONS ON SHEET 1 FOR PRODUCT PERIMETER. USE ANCHORS APPROPRIATE FOR SUBSTRATE TYPE (SEE TABLE 2, THIS SHEET).
2. INSTALL SHIMS AT EACH ANCHOR LOCATION WHERE A GAP OF 1/16" OR GREATER EXISTS BETWEEN PRODUCT FRAME AND SUBSTRATE.
3. SHIMS SHALL BE LOAD-BEARING (PLASTIC OR METALLIC) AND CAPABLE OF TRANSFERRING LOADS TO SUBSTRATE.
4. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO.
5. 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.
6. A MINIMUM CENTER-TO-CENTER SPACING OF 4" SHALL BE MAINTAINED BETWEEN ALL CONCRETE OR CMU ANCHORS IN ANY DIRECTION. CONCRETE/MASONRY SUBSTRATES SHALL NOT BE CRACKED.



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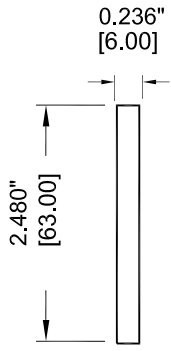
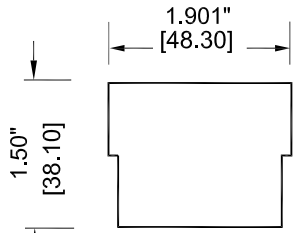
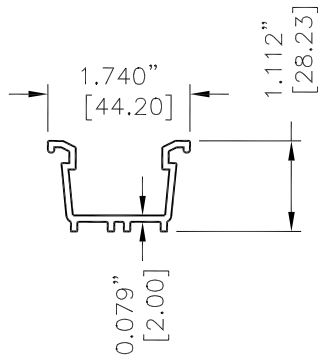
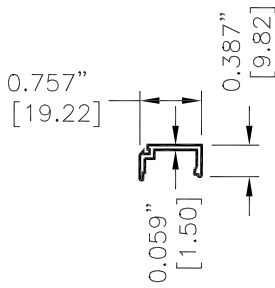
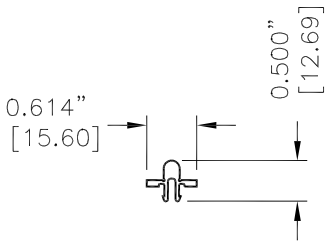
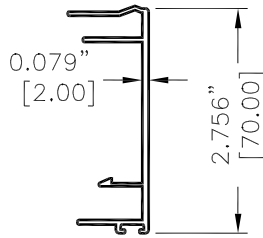
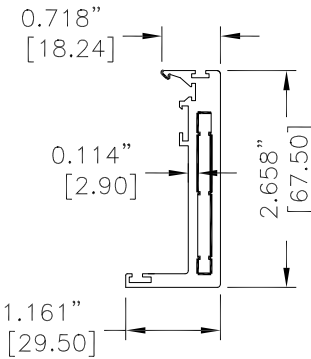
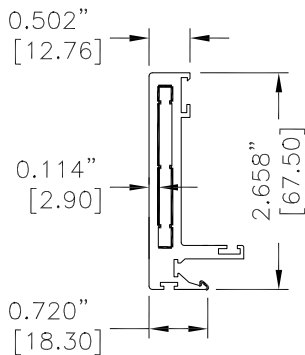
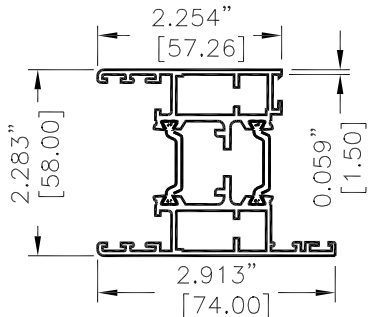
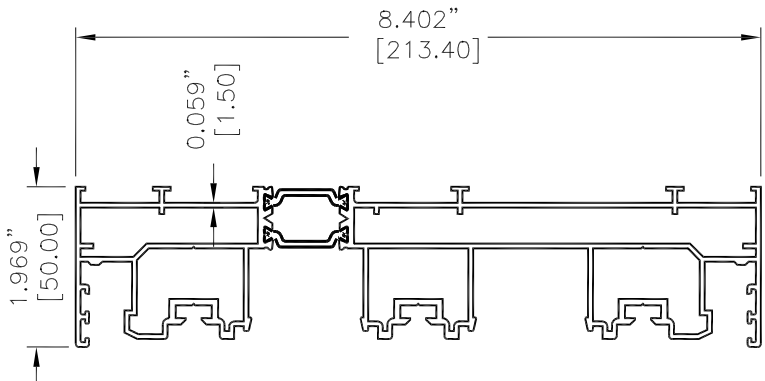
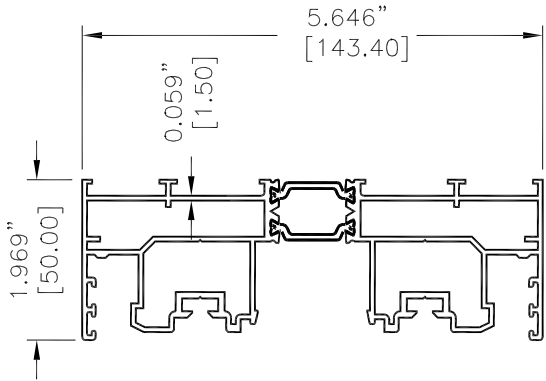
SHEET DESCRIPTION

INSTALLATION
DETAILS

SHEET
3 of 4

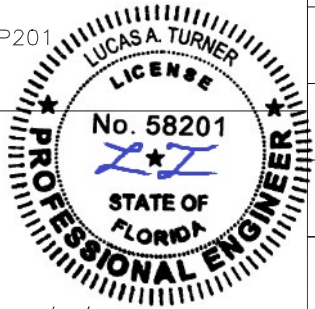
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1	P929	Cortizo	Double Frame	Aluminum 6063-T5
2	P928	Cortizo	Triple Frame	Aluminum 6063-T5
3	P927	Cortizo	Std. Sash	Aluminum 6063-T5
4	P226	Cortizo	OS29 Interlock A	Aluminum 6063-T5
5	P196/P016	Cortizo	Frame Cover	Aluminum 6063-T5
6	P198/P013	Cortizo	Patio Track Runner	Aluminum 6063-T5
7	P227	Cortizo	OS29 Interlock B	Aluminum 6063-T5
8	P201	STAC	Frame Insert	PVC
9	P145	Cortizo	Bead (36mm 32mm)	Aluminum 6063-T5
10	TBC		Sash Reinforcement Block	Aluminum 6063-T5
11	P281	EMS	Aluminum Riser	Aluminum 6063-T5
12	L037	PMS	Gearbox	Steel/Zinc
13	L036	PMS	Gearbox Face plate	Steel/Zinc
14	C00202	Montrose	Threaded Bar	Steel
15	L238		50mm Shoot bolt end	
16	L237		Shootbolt Guide	
17	C01754		Shootbolt Keep Set	
18	H300		Flush Handle	Steel/Zinc
19	X260	CiiLock	75KG Roller	Steel/Nylon
20	X208	STAC	Sash Cleat	Aluminum 6063-T5
21	X209	Monticelli	Frame Cleat	Zinc Cast
22	X234	Wycombe Eng	Slim Sash Fixing Block	Nylon
23	G00164	Schlegel	7.5mm Brush Pile	PP/PP Yarn
24	G00140	Schlegel	Dust Plug	PP/PP Yarn
25	G00156	Plastech	Rebate Glazing	TPE
27	G00037	Plastech	Gasket Wedge	TPE
28	G00008	Schlegel	Interlock Gasket 1	TPE
29	G00200	Schlegel	Interlock Gasket 2	TPE
30	QL69800	Schlegel	Qlon seal	Q-Lon
31	C00135	STAC	Small Chevron	Aluminum 6063-T5
32	C00522	Cortizo	Face Drainage Cap	PVC
33	C01291	Montrose	Shoot Bolt Return Fixing	
34	C01293	Montrose	Interlock Fixing	
35		Montrose	Fixing Block Screw	Steel
36		Fastenal	Frame Fixing 8 x 80	Steel
37	C01373	Montrose	Slim Sash Fixing Block Screw	Steel
38	C00514	Cortizo	Fixed Sash Fixing Block	Nylon
39	C01567		Anti Lift Packer Set	
40	C01659		End Cap set	
41	C01662		Door Stop Kit	
42	TBC		Track Insert Block	
43	TBC		Reinforcement Screw	Steel



ASTRAGAL
ALUMINUM REINF.

11 P281



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SHEET DESCRIPTION

BOM, PART
 DRAWINGS

SHEET
 4 of 4