

SERIES 600 ALUMINUM OUTSWING ENTRANCE DOOR

FOR SINGLE (X) AND STAND-ALONE SINGLE SIDELITE CAPACITIES SEE SHEET 2.

LOWER VALUES FROM DOOR, SIDELITE, OR MULLION CAPACITY CHARTS WILL APPLY TO ENTIRE SYSTEM.

DOOR APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

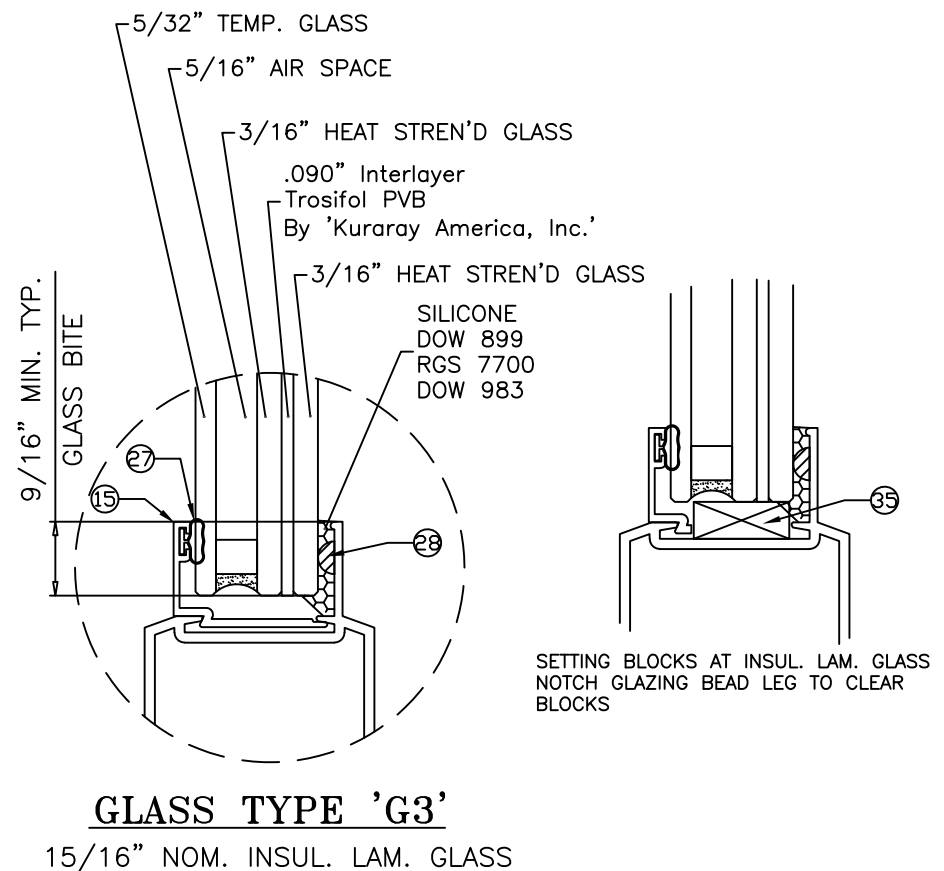
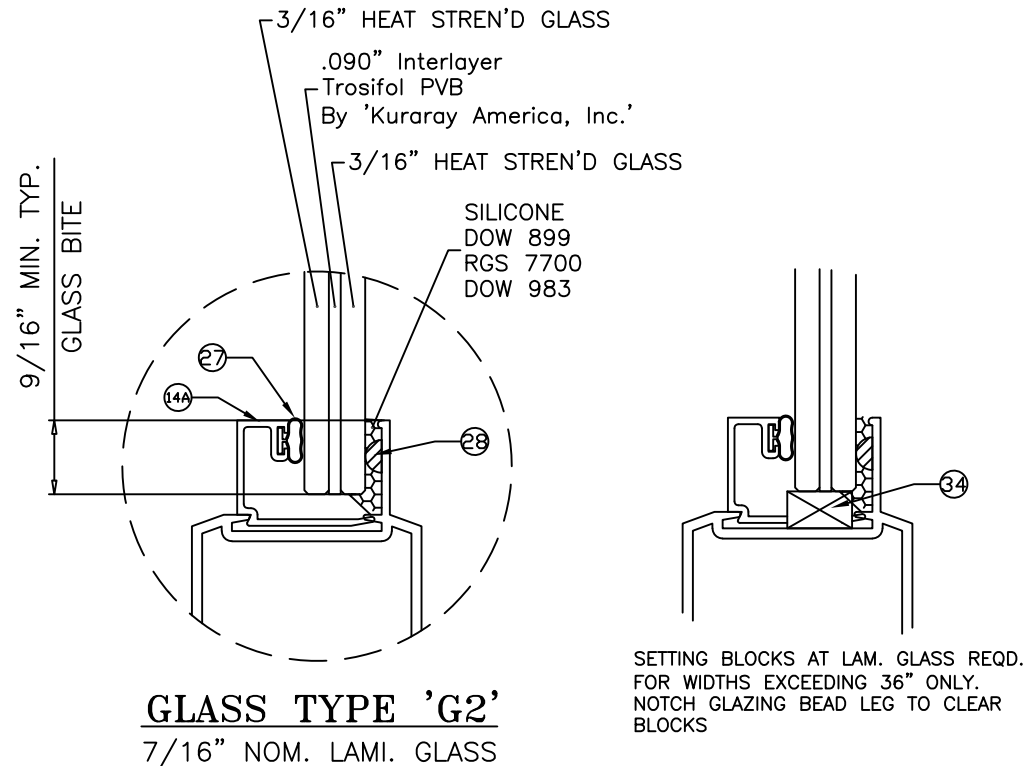
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

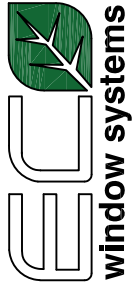
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL

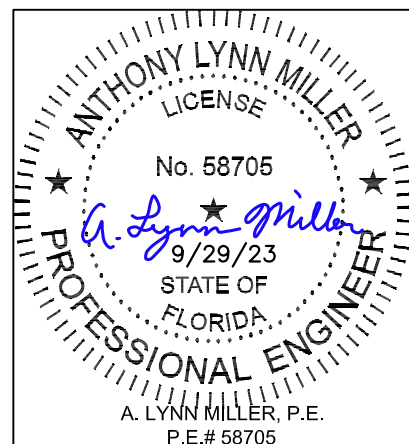
DESIGN LOAD SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

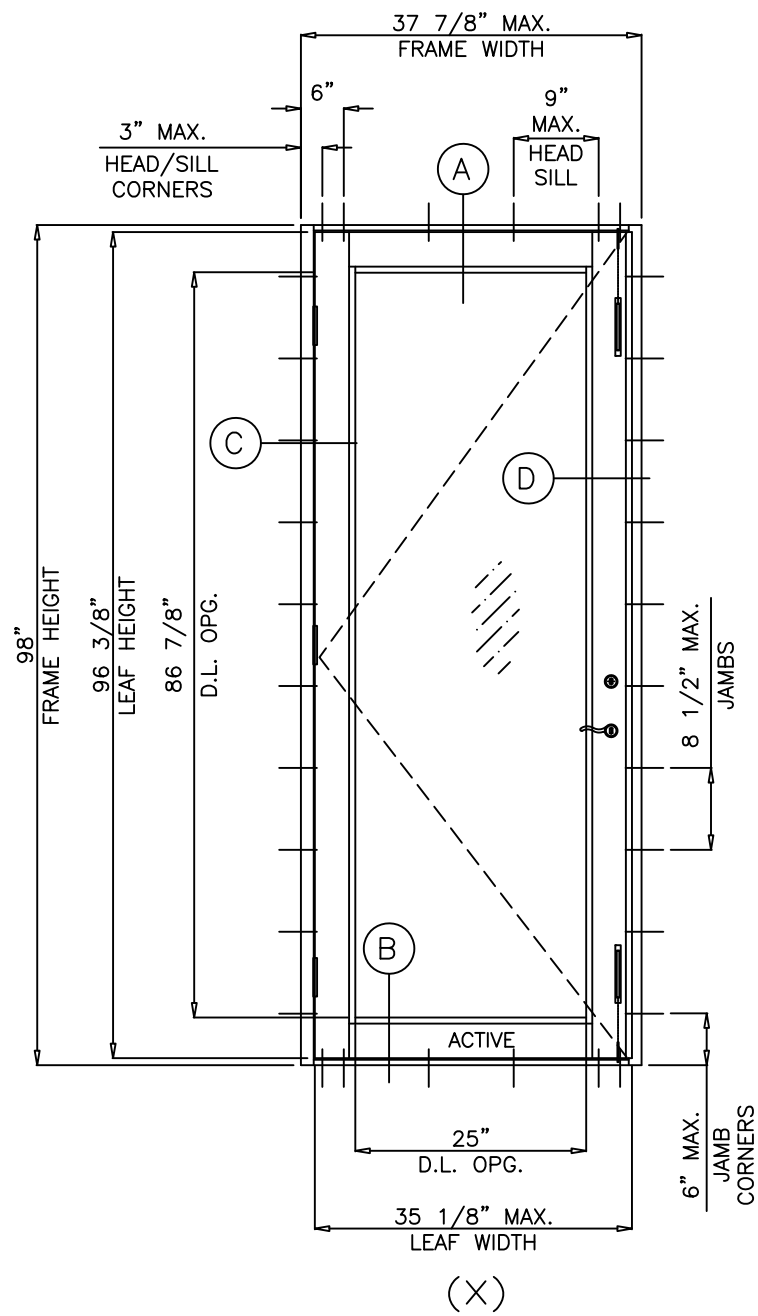


THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT. FBC APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTLLATIONS UP TO 30 FT. OF GRADE. SHUTTERS NOT REQD. FOR INSTALLATION ABOVE 30 FT. OF GRADE.

Revision:
REVISED TABLE FORMAT, ADDED DP TABLE ROUNDING AND ANCHOR HEAD TYPE NOTES, REMOVED SILICONE AND BACKSTOP ON INSTALL DETAIL

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	6/5/2022	Rev.	A
		By	HONG C.	DWG No.	FD600FPA - SMI
 ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902 SERIES 600 ALUM. OUTSWING ENTRNCE DOOR (S.M.I.)	GENERAL INFORMATION & GLASS	Sheet	1 OF 9		
		Series Desc.	SERIES 600		





(X)

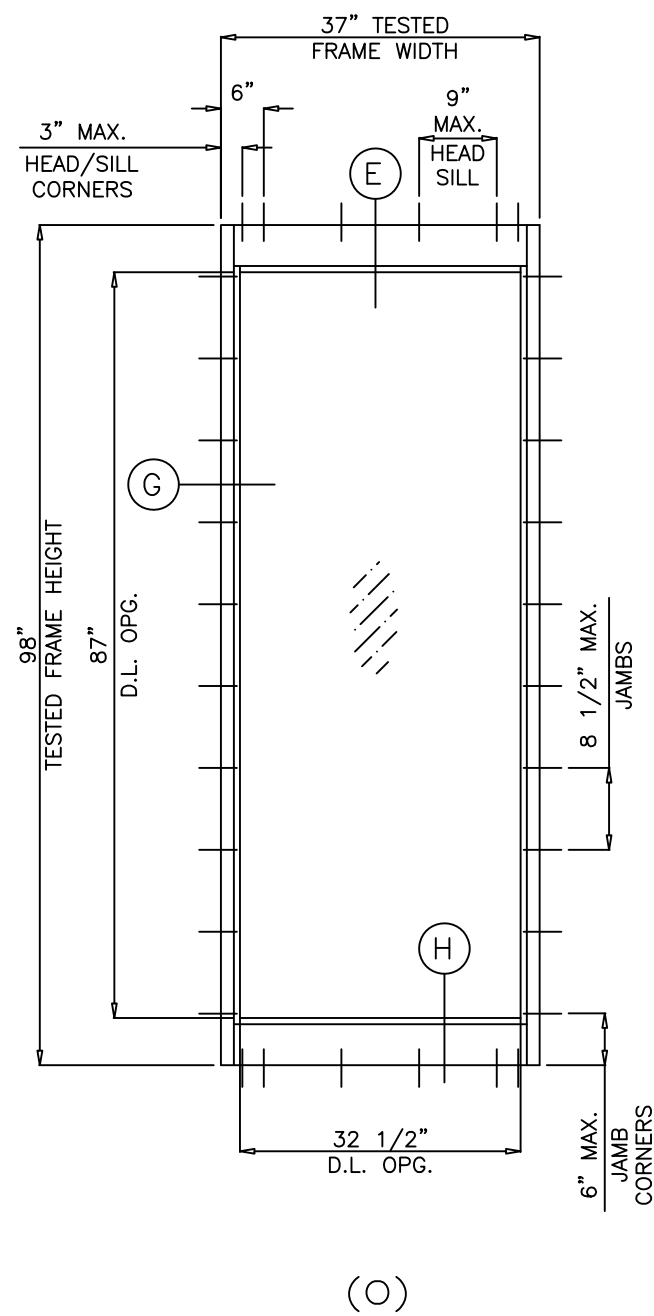
SINGLE DOORS (X) LOAD CAPACITY - PSF				
DOOR DIMS.			LAMINATED GLASS	
FRAME WIDTH	LEAF WIDTH	FRAME HEIGHT	POS. (+)	NEG. (-)
39- 7/8"	35- 1/8"	98"	70.0	135.0

GLASS D.L.O. DIMS.

D.L.O. HEIGHT (DOOR) = FRAME HEIGHT - 11.125"

D.L.O. WIDTH (DOOR) = FRAME WIDTH - 12.875"

NOTE:
EGRESS REQUIREMENTS TO BE REVIEWED
BY BUILDING OFFICIAL



(O)

SINGLE SIDELITE (O) DOORS LOAD CAPACITY - PSF			
SIDELITE DIMS.		GLASS TYPES 'G2' & 'G3'	
FRAME WIDTH	FRAME HEIGHT	POS. (+)	NEG. (-)
37"	98"	70.0	135.0
42"	86"	61.7	114.5

GLASS D.L.O. DIMS.

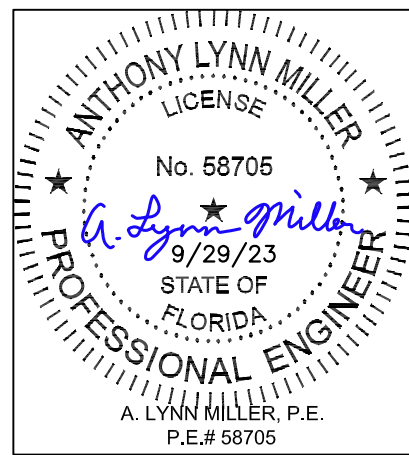
D.L.O. HEIGHT (SIDELITE) = FRAME HEIGHT - 11.000"

D.L.O. WIDTH (SIDELITE) = FRAME WIDTH - 4.500"

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)

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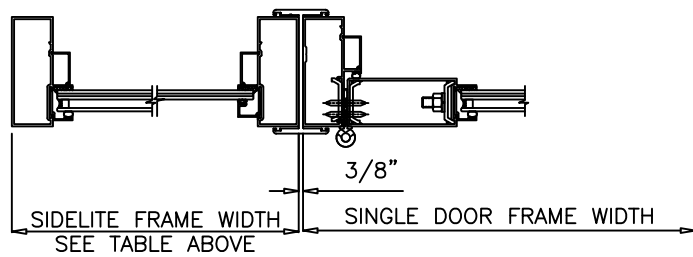
<p>ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902</p>	<p>PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600</p>	<p>REGISTRATION #29296</p>	<p>6/5/2022</p>	<p>A</p>
	<p>SERIES 600 ALUM. OUTSWING ENTRNCE DOOR (S.M.I.)</p>	<p>HONG C.</p>	<p>FD600FPA - SMI</p>	<p>Revised</p>
<p>X & O ELEVATIONS & DP CHARTS</p>	<p>2 OF 9</p>	<p>DMG No.</p>	<p>Sheet</p>	<p>Series Desc.</p>



Design Load Capacity - PSF
Sidelite Mullioned with Single Leaf Door

Sidelite Frame Width (in.)	Sidelite Frame Height (in.)							
	82"		86"		92"		98"	
24"	+70.0	-135.0	+70.0	-135.0	+70.0	-135.0	+70.0	-135.0
30"	+70.0	-135.0	+70.0	-135.0	+70.0	-135.0	+70.0	-135.0
36"	+70.0	-135.0	+70.0	-135.0	+70.0	-135.0	+70.0	-135.0
42"	+61.7	-114.5	+61.7	-114.5				

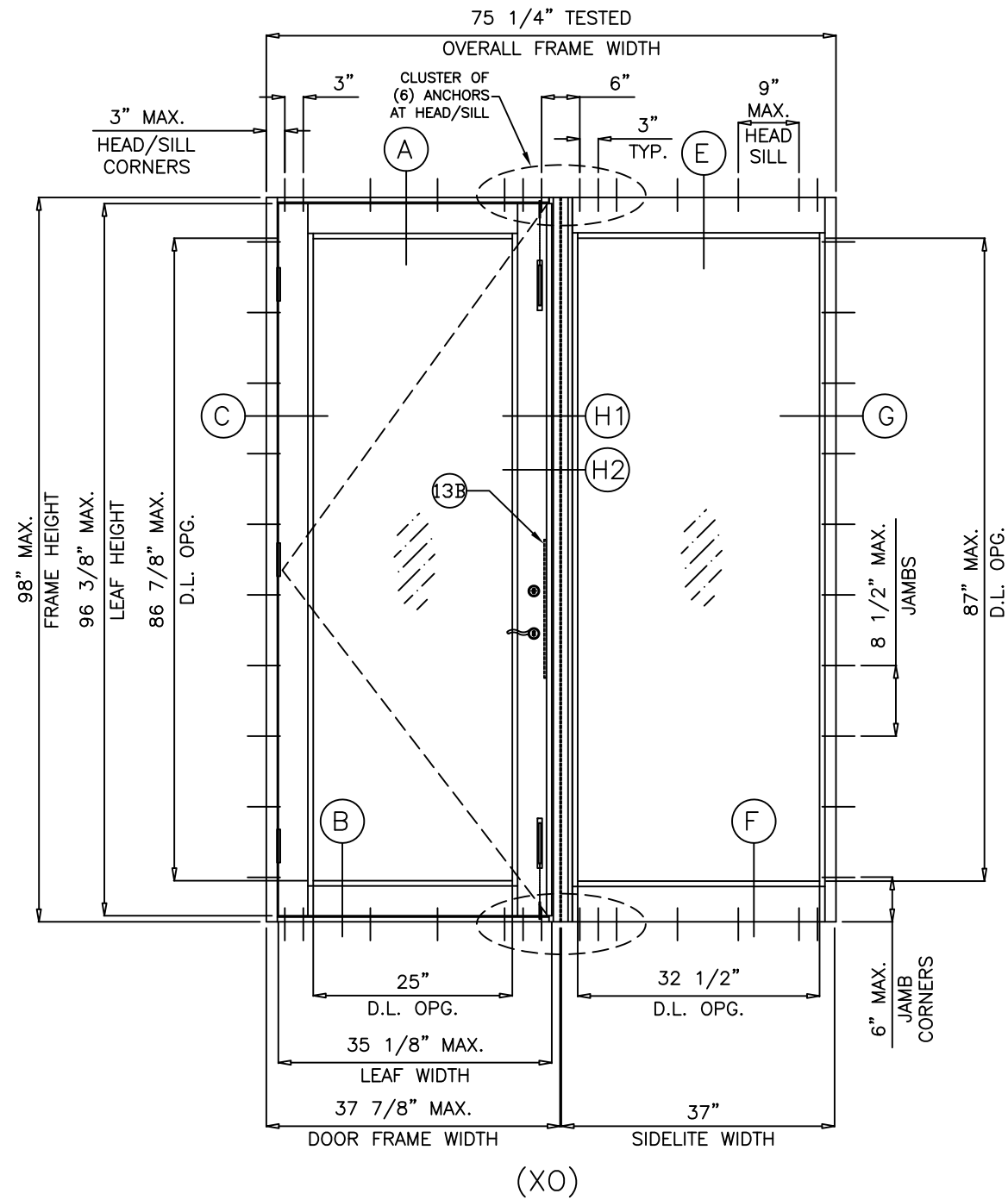
NOTE:
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NOTE:

FOR DOOR AND SIDELITE CAPACITY SEE SHEET 2.
FOR SIDELITE MULLION CAPACITY SEE CHART ABOVE.
LOWER VALUES FROM DOOR, SIDELITE OR MULLION CHART WILL
APPLY TO ENTIRE SYSTEM.

FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH
OR HEIGHT DIMENSION SHOWN ON THE TABLE.

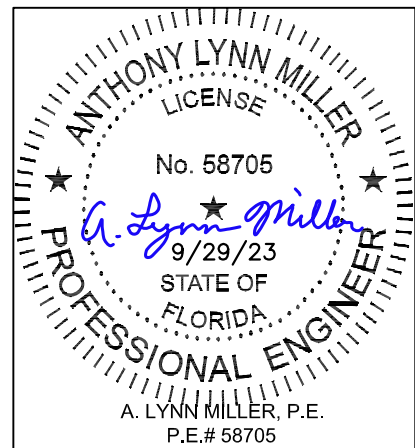


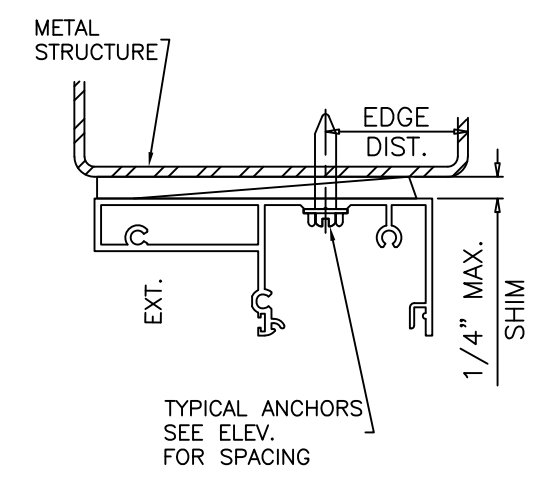
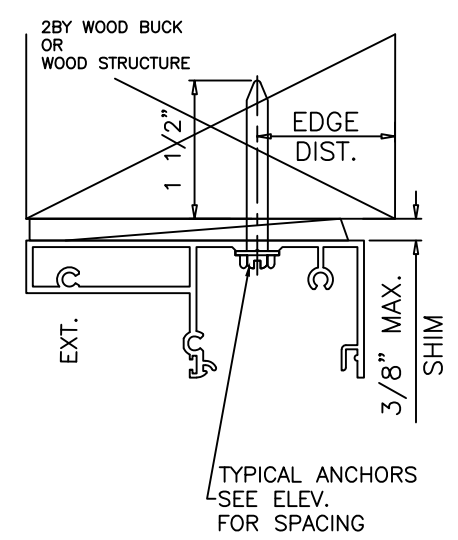
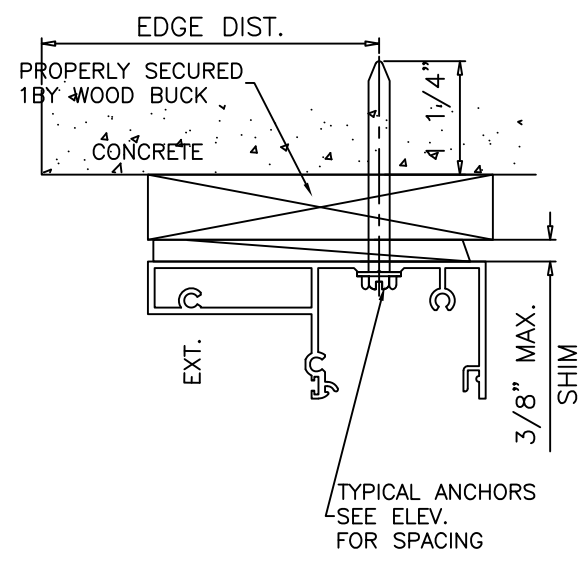
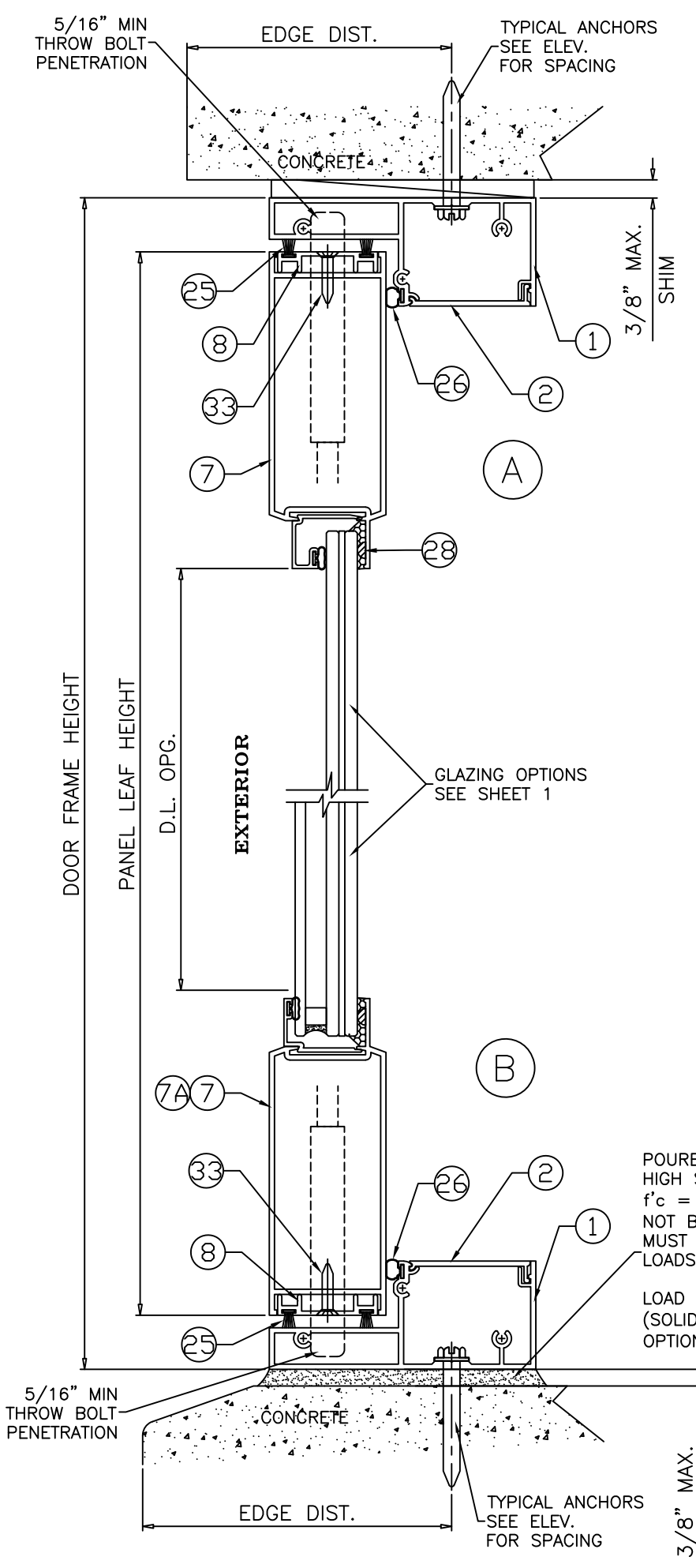
MAX. UNIT TESTED FRAME AREA NOT TO EXCEED 51.2 SQ. FT. PER FBC

Revision:

REVISED TABLE	REMOVED SILICONE AND BACKSTOP ON INSTALL DETAIL
FORMAT, ADDED DP TABLE	
ROUNDING AND ANCHOR HEAD TYPE NOTES,	
REMOVED	

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	DATE	6/5/2022	REV.	A
		DRAWN	HONG C.	DWG. No.	FD600FPA - SMI
ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902	TITLE	SERIES 600 ALUM. OUTSWING ENTRNCE DOOR (S.M.I.)		SHEET	3 OF 9
	DESC.	OXOXO ELEVATION AND DP CHARTS			





1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WDW.' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

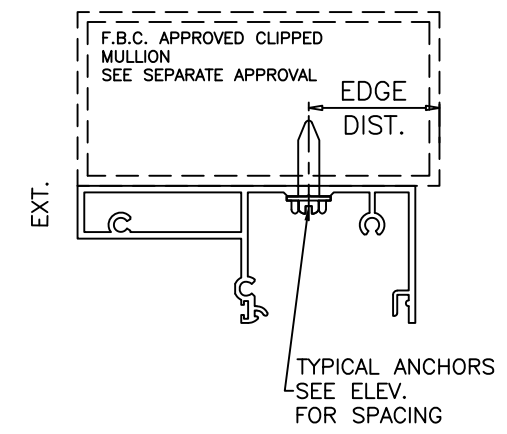
TYPICAL ANCHORS: SEE ELEV. FOR SPACING

Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. Embedment or Metal Thickness
5/16" DeWalt UltraCon +	Head/Jambs	Southern Pine (SG = 0.55)	1"	1-7/8"
	Head	Thru 1BY or 2BY Buck into Concrete (min. 3 ksi)	2-1/2"	1-1/4"
	Jambs	Thru 1BY or 2BY Buck into Filled Block (ASTM C90, min. 2 ksi)	2-1/2"	1-1/4"
	Head/Sill	Concrete (min. 3ksi)	2-1/2"	1-1/4"
	Jambs	Filled Block (ASTM C90, min. 2 ksi)	2-1/2"	1-1/4"
#14 SMS or Self Drilling Screws (Gr. 2)	All	F.B.C Approved Mullions	3/4"	(3) Threads min. beyond metal thickness
	All	Aluminum 1/8" Thk. Min. (6063-T5)	3/4"	(3) Threads min. beyond metal thickness
	All	Steel 1/8" Thk. Min. (min. 36 ksi)	3/4"	(3) Threads min. beyond metal thickness

- STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED
- ALL ANCHOR HEAD TYPES ARE ACCEPTABLE

POURED & HARDENED HIGH STRENGTH GROUT f'c = 5000 PSI MIN. NOT BY "ECO WINDOWS" MUST TRANSFER SHEAR LOADS TO STRUCTURE

LOAD BEARING (SOLID SHIMS OPTIONAL TO GROUT)



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PREPARED BY A. LYNN MILLER
 1070 TECHNOLOGY DRIVE
 N. VENICE, FL 34275
 (941) 480-1600

REGISTRATION #29296

ECO WINDOW SYSTEMS, LLC.
 8602 N.W. 80th ST. MEDLEY, FL 33166
 TEL: (305) 885-5299 FAX: (305) 885-5902

SERIES 600 ALUM. OUTSWING ENTRNCE DOOR (S.M.I.)

DATE: 6/5/2022

DRAWN BY: HONG C.

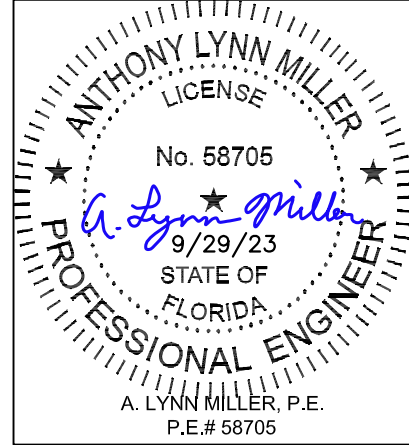
DOOR VERTICAL SECTION DETAILS & ANCHORS

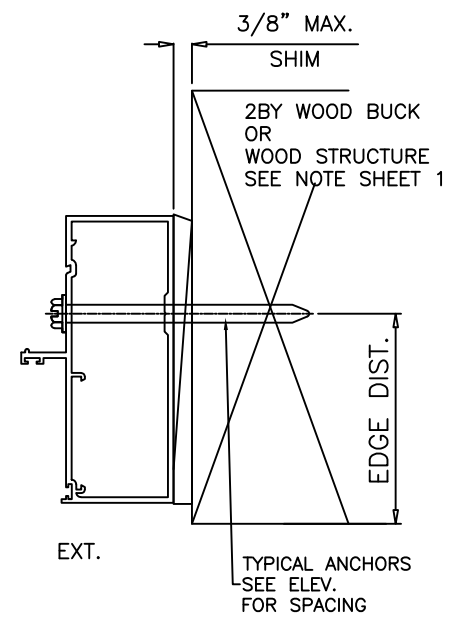
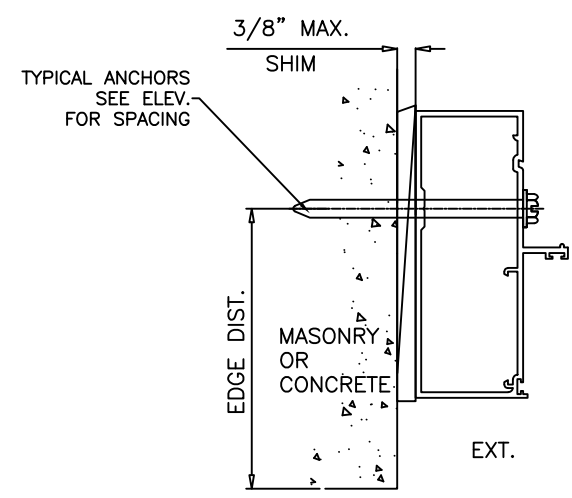
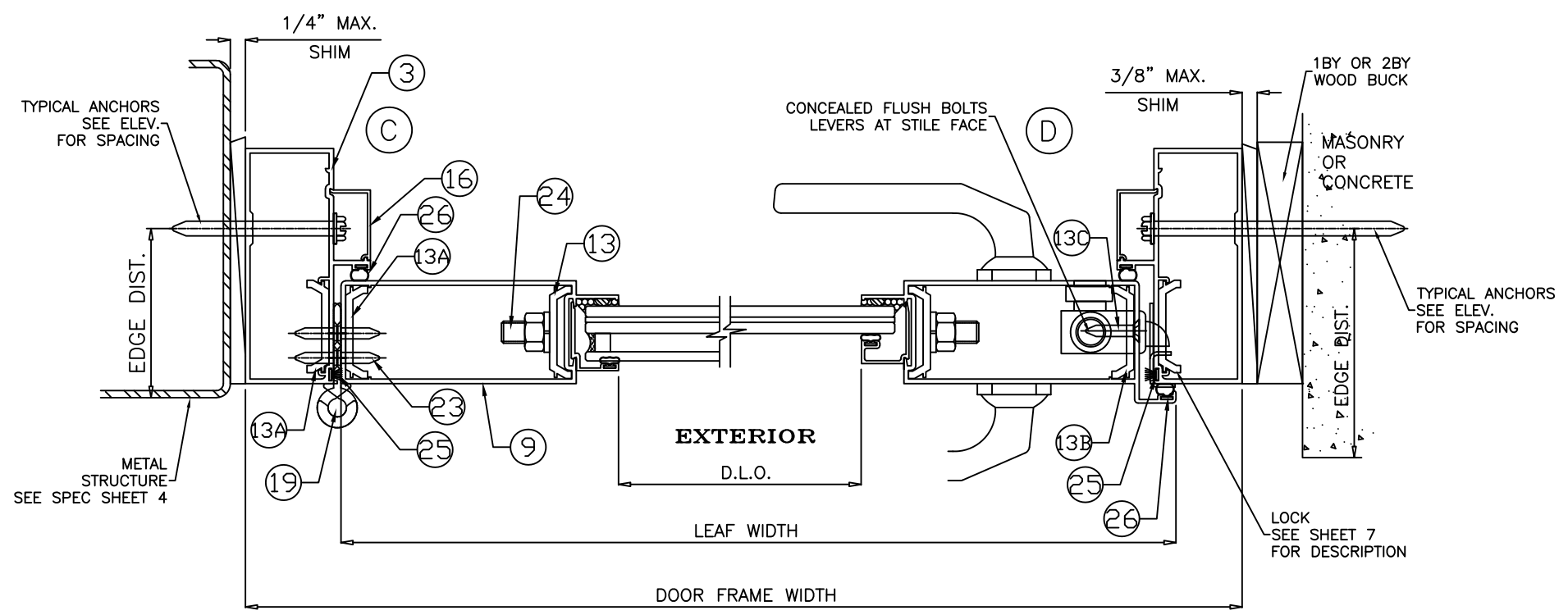
SERIES 600

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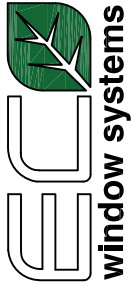
DWG No. FD600FPA - SMI

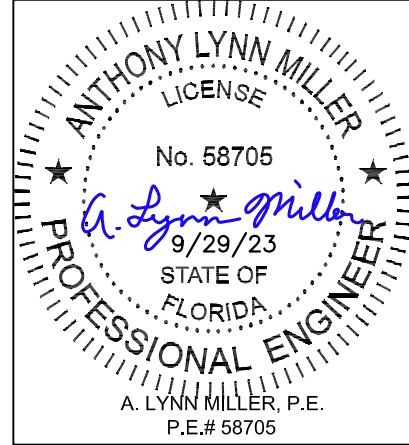
Rev. A

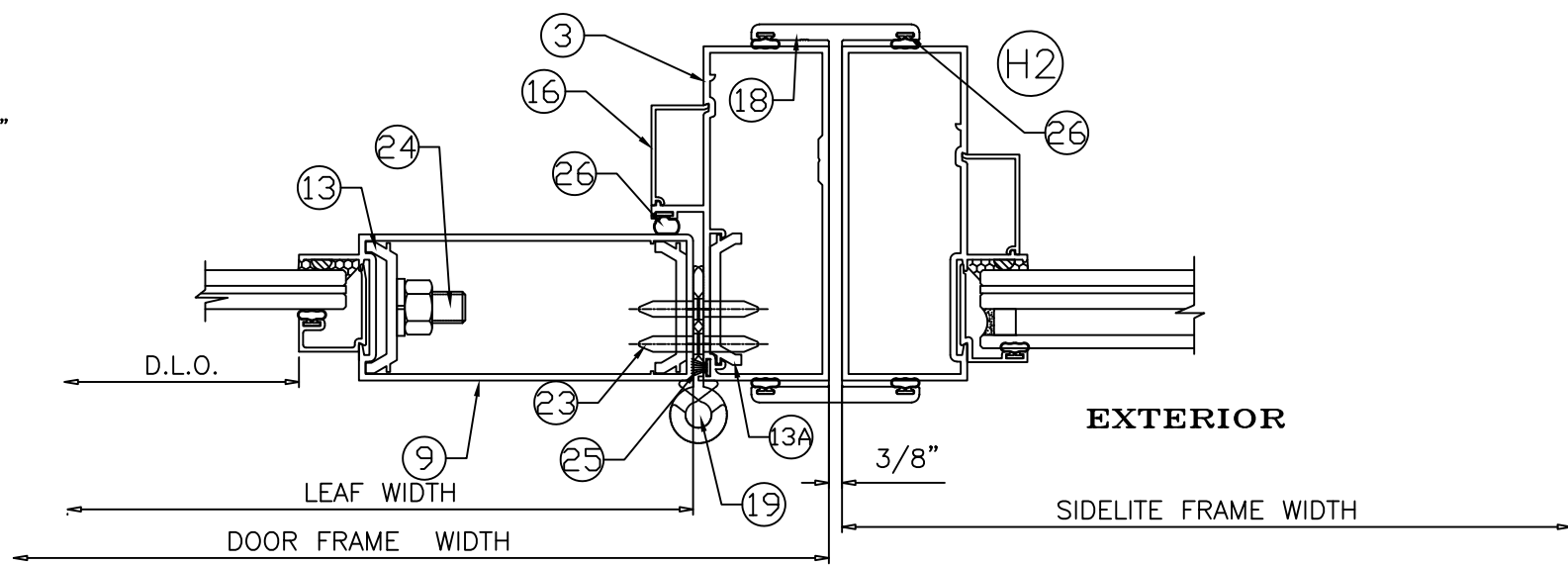
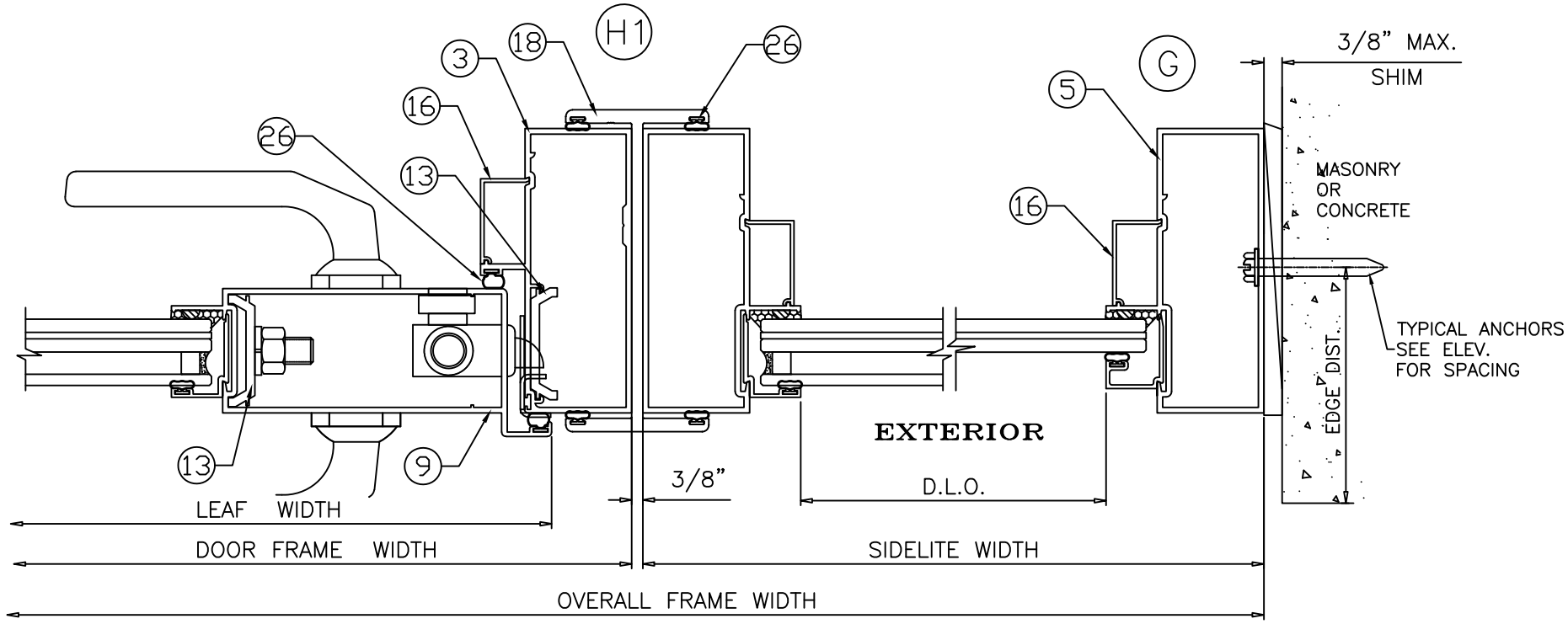
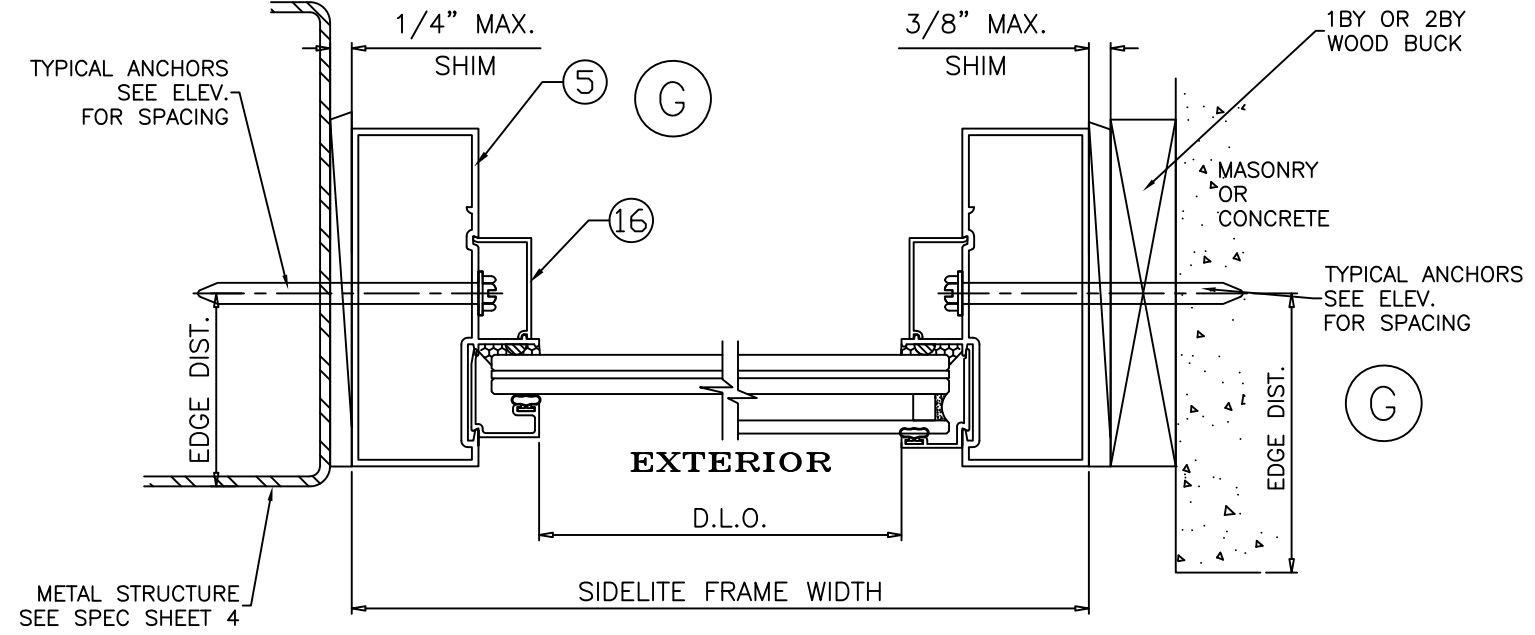
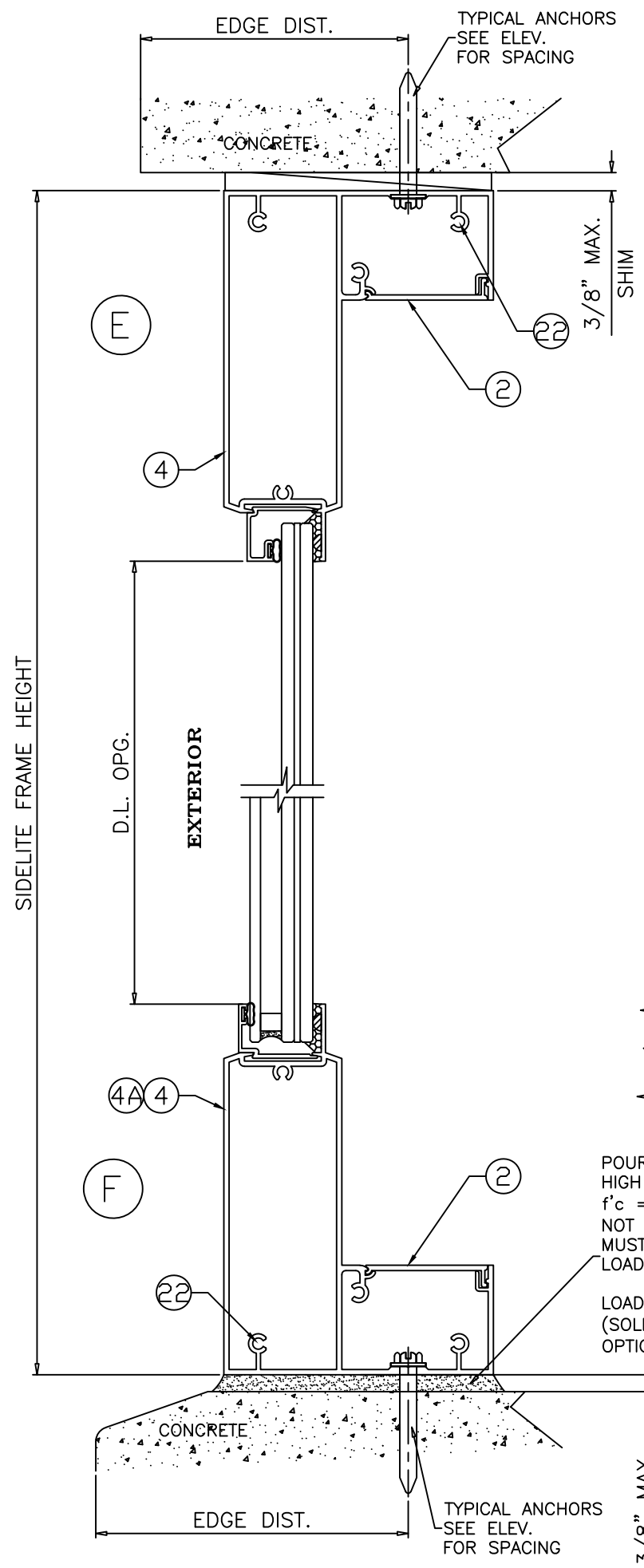




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		Drawn	HONG C.	DWG No.	FD600FPA - SMI
 ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902	SERIES 600 ALUM. OUTSWING ENTRANCE DOOR (S.M.I.)	Title	5 OF 9	Sheet	5 OF 9
DOOR HORIZONTAL SECTION DETAILS	Desc.	Series	SERIES 600	No.	FD600FPA - SMI





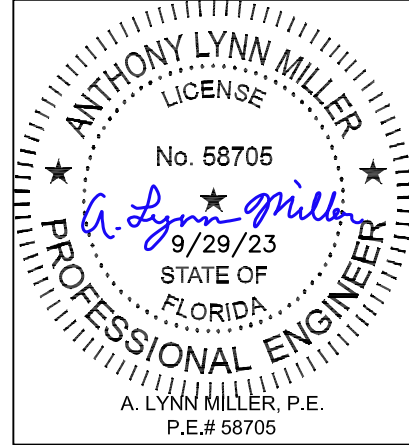
POURED & HARDENED
HIGH STRENGTH GROUT
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NOT BY "ECO WINDOWS"
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LOAD BEARING
(SOLID SHIMS
OPTIONAL TO GROUT)

Revision:

REVISED TABLE	DATE	BY	REASON
FORMAT, ADDED DP			
TABLE			
ROUNDING			
AND ANCHOR			
HEAD TYPE			
NOTES,			
REMOVED			
SILICONE AND			
BACKSTOP ON			
INSTALL DETAIL			

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	DATE	6/5/2022	REV.	A
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	DESC.	SIDELITE VERTICAL AND HORIZONTAL DETAILS			



LOCKS:

CONVENTIONAL DOOR LOCKSET WITH HANDLE BY 'SCHLAGE' OR 'KWIKSET' LOCATED AT 38" FROM BOTTOM KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR FASTENED TO LOCK STILE WITH
 (2) #8 X 3/4" FH MULTI THREAD SCREWS
 (2) 8-32 X 11/16" PH MS

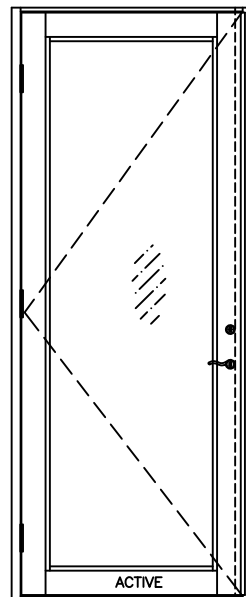
SURFACE MOUNTED DEAD BOLT LOCK BY 'SCHLAGE' OR 'KWIKSET' LOCATED AT 43-1/2" FROM BOTTOM KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR FASTENED TO LOCK STILE WITH
 (2) #8 X 3/4" FH MULTI THREAD SCREWS
 (2) 8-32 X 11/16" PH MS

FLUSH MOUNT METALLIC STRIKE PLATES FACING LOCKS AT 39" AND 44-1/2" FROM BOTTOM EACH PLATE FASTENED TO FRAME JAMB WITH
 (2) #10 X 5/8" FH SMS

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.' 1/2" X 2" THROW BOLTS ENGAGING FRAME AT HEAD AND SILL MANUALLY OPERATED LEVERS MOUNTED ON STILE FACE LOCATED AT 10-1/2" FROM TOP AND BOTTOM FASTENED TO LOCK STILE WITH
 (2) #8-32 X 1/2" FH MS

HINGES:

3-1/2" X 7-5/8" X .122" THK. EXTRUDED ALUM. HINGE PART #FD-107 BY SULLIVAN & ASSOC.
 3 HINGES PER LEAF
 BOTTOM HINGE AT 10-1/4" FROM BOTTOM
 TOP HINGE AT 11-3/4" FROM TOP
 CENTER HINGE AT MIDSPAN (38" O.C. MAX.)
 HINGES FASTENED WITH #10 X 1" FH SMS
 (5) SCREWS AT HINGE STILE
 (6) SCREWS AT FRAME JAMB



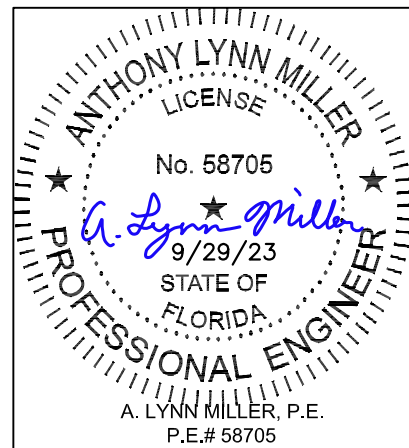
ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E601	-	DOOR FRAME HEAD/SILL	6063 - T6	-
2	E602	-	FRAME COVER	6063 - T6	-
3	E603	-	DOOR FRAME JAMB	6063 - T6	-
4	E604	-	SIDELITE TOP & BOTTOM FRAME	6063 - T6	-
4A	E626	-	SIDELITE 9" BOTTOM FRAME	6063 - T6	-
5	E605	-	SIDELITE FRAME JAMB	6063 - T6	-
7	E607	-	LEAF TOP & BOTTOM RAIL	6063 - T6	-
7A	E625	-	LEAF 9" BOTTOM RAIL	6063 - T6	-
8	E608	-	LEAF W'STRIP ADAPTER	6063 - T6	-
9	E609	-	LEAF HINGE STILE	6063 - T6	-
10	E610	-	LEAF LOCK STILE	6063 - T6	-
12	E612	-	LEAF ALIGNMENT BRACKET	6063 - T6	-
13	E613	-	LEAF CLAMP	6063 - T6	4-1/4" LONG
13A	E613	1/CORNER	HINGE BACK-UP PLATE	6063 - T6	9" LONG
13B	E613	2/HINGE	LOCK REINFORCING PLATE, ABOVE AND BELOW LOCK	6063 - T6	24" LONG
13C	#10 X 3/4"	1/PLATE	LOCK REINFORCING FASTENER	ST. STEEL	FH SELF DRILLING SCREW
14	FY109	-	GLAZING BEAD (LAM. GLASS)	6063 - T6	-
15	E710	-	GLAZING BEAD (INSUL. GLASS)	6063 - T6	-
16	E616	-	SNAP COVER	6063 - T6	-
17	E613	-	BOLT SUPPORT	6063 - T6	NOT SHOWN
18	E623	1	SIDELITE MULLION	6063 - T6	-
19	FD-107	3/ LEAF	BUTT HINGE	ALUMINUM	SULLIVAN & ASSOC.
20	FB1202	-	FLUSH BOLT LEVER	-	SULLIVAN & ASSOC.
21	FBR914SS	-	CONCEALED FLUSH BOLT ROD	ST. STEEL	SULLIVAN & ASSOC.
22	#10 X 1-1/4"	AS REQD.	FRAME ASSEMBLY SCREWS	-	-
23	#12 X 3/4"	-	HINGE INSTALLATION FASTENERS	-	FH SMS
24	-	-	3/8" DIA. THREADED ROD	STEEL	-
25	W11323	-	PILE W'STRIPPING	WOOL	ULTRAFAB
26	E20618-KN-3020	-	BULB W'STRIPPING	SANTOPRENE	EPDM
27	E206	-	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB
28	-	-	GLASS SPACER	SILICONE	FRANK LOWE RUBBER CO.
29	E622	-	FLUSH BOLT CUP	NYLON	-
30	DL01RC	-	BLACK BOLT SUPPORT BLOCK	POLYETHYLENE	INTERLOCK
31	DL01WB	-	WHITE BOLT SUPPORT BLOCK	POLYETHYLENE	ACME PLASTIC
33	#10 X 3/4"	2/ ADAPTER	FH SELF DRILLING SCREWS, AT 5" FROM EACH END	-	FH SMS
35	-	2/ LITE	SETTING BLOCK, 1/4" X 3/4" X 4"LONG	EPDM	AT 6" FROM EACH END, DUROMETER 80±5

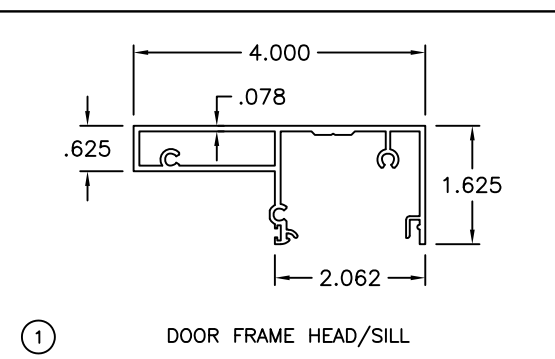
SEALANT:

ALL FRAME/PANEL JOINTS AND SEAMS SEALED WITH SCHNEE MOREHEAD JM5504 SEALANT

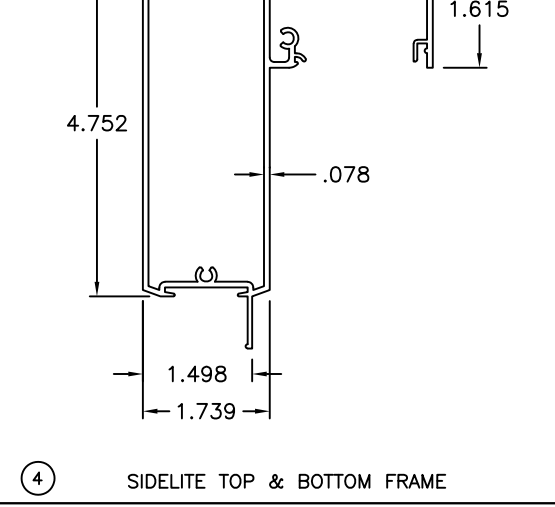
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 FORMAT, ADDED DP TABLE
 ROUNDING AND ANCHOR HEAD TYPE NOTES, REMOVED SILICONE AND BACKSTOP ON INSTALL DETAIL

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window systems ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902		Series Desc.	BILL OF MATERIALS	Series	SERIES 600

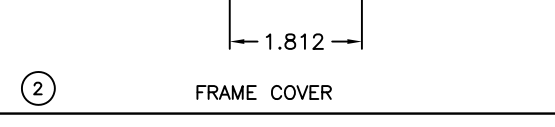




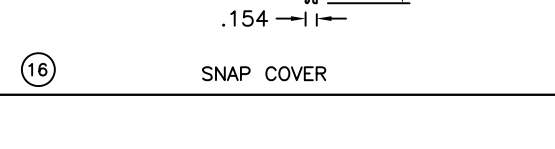
① DOOR FRAME HEAD/SILL



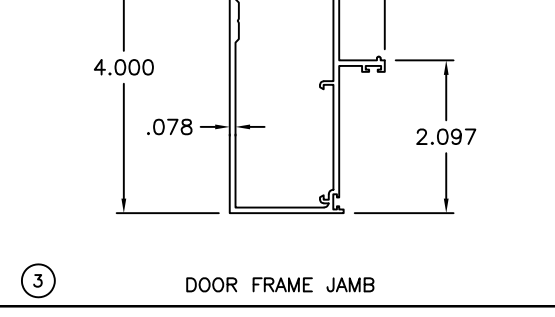
④ SIDELITE TOP & BOTTOM FRAME



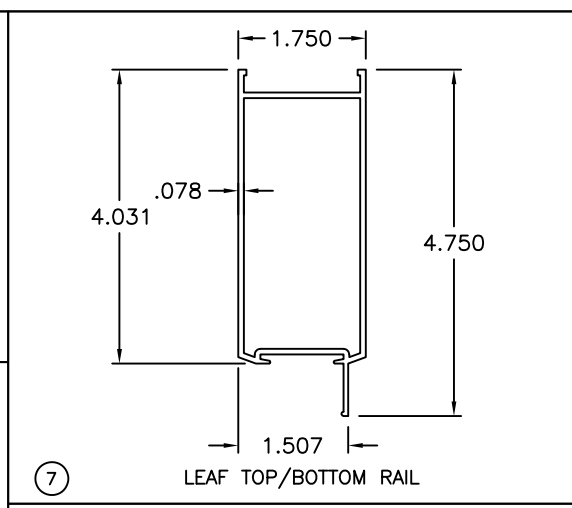
② FRAME COVER



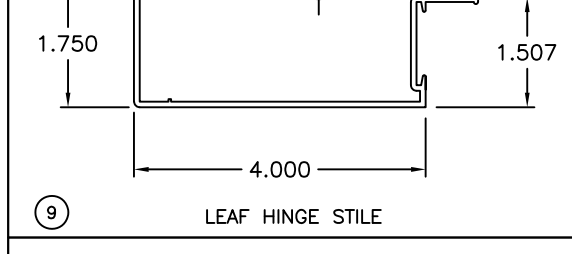
⑩ SNAP COVER



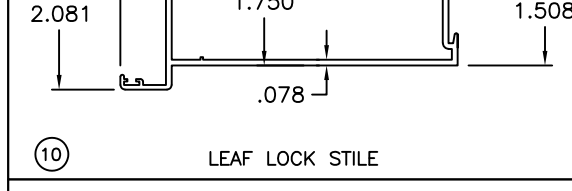
③ DOOR FRAME JAMB



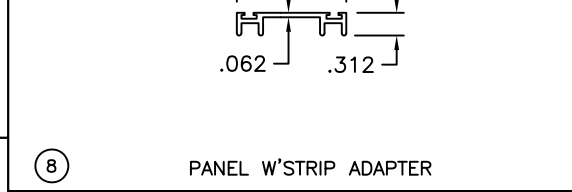
⑦ LEAF TOP/BOTTOM RAIL



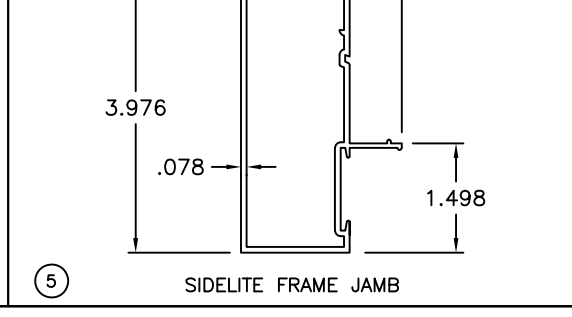
⑨ LEAF HINGE STILE



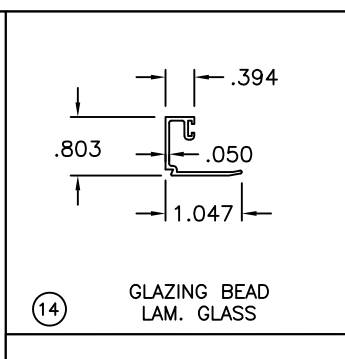
⑩ LEAF LOCK STILE



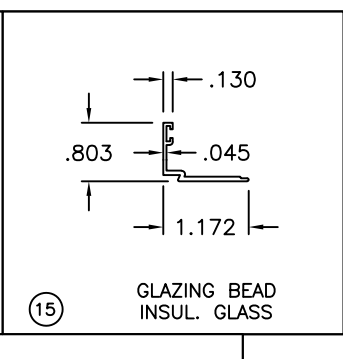
⑧ PANEL W'STRIP ADAPTER



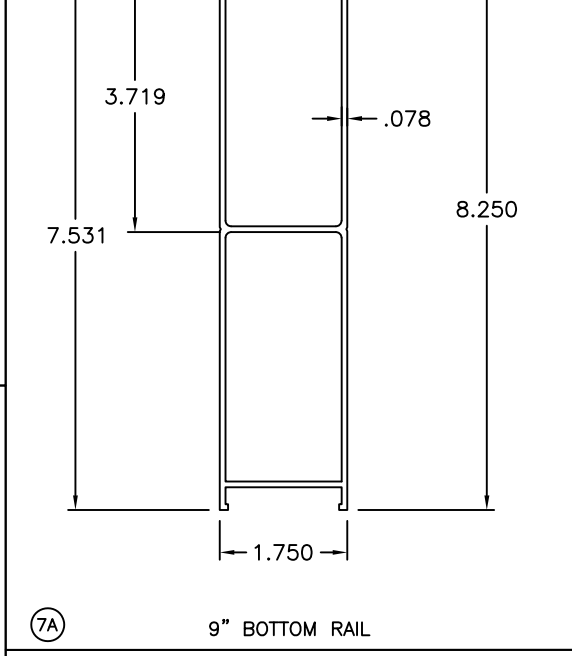
⑤ SIDELITE FRAME JAMB



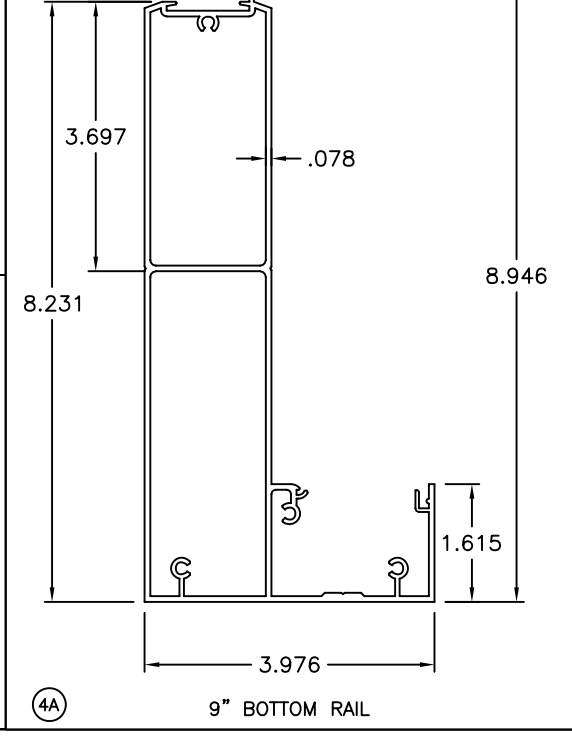
⑭ GLAZING BEAD LAM. GLASS



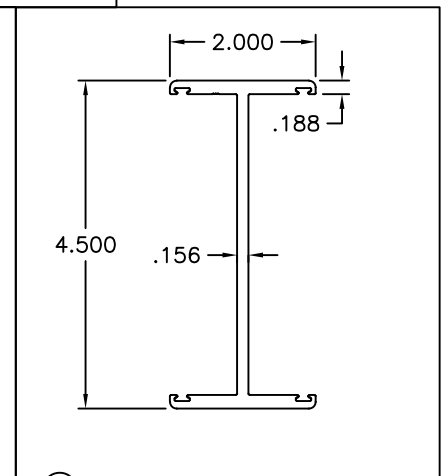
⑮ GLAZING BEAD INSUL. GLASS



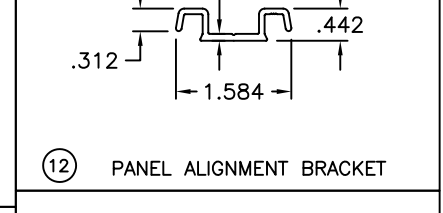
⑦A 9" BOTTOM RAIL



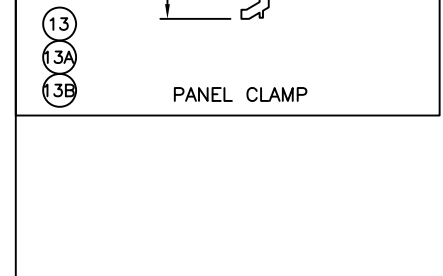
④A 9" BOTTOM RAIL



⑱ SIDELITE MULLION REINFORCING



⑫ PANEL ALIGNMENT BRACKET

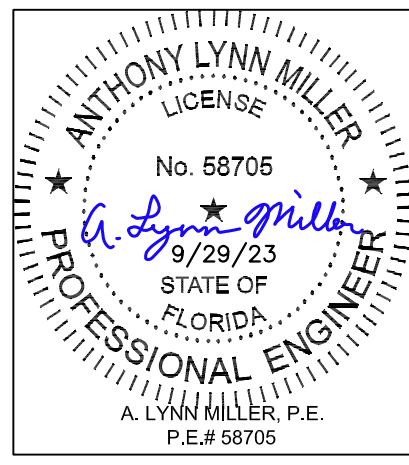


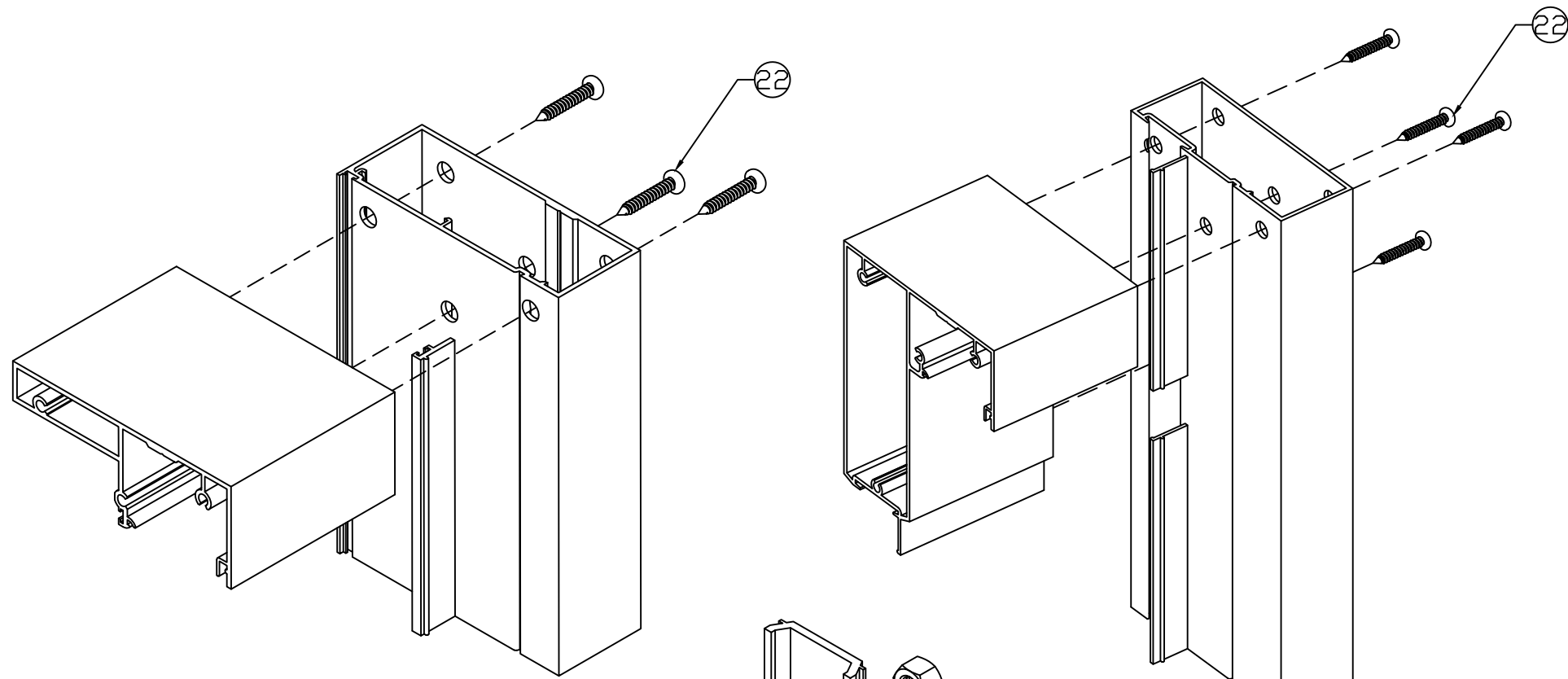
⑬ PANEL CLAMP

Revision:
 REVISED TABLE
 FORMAT, ADDED DP TABLE
 ROUNDING AND ANCHOR HEAD TYPE NOTES,
 REMOVED SILICONE AND BACKSTOP ON INSTALL DETAIL

PREPARED BY A. LYNN MILLER
 1070 TECHNOLOGY DRIVE
 N. VENICE, FL 34275
 (941) 480-1600
 REGISTRATION #29296

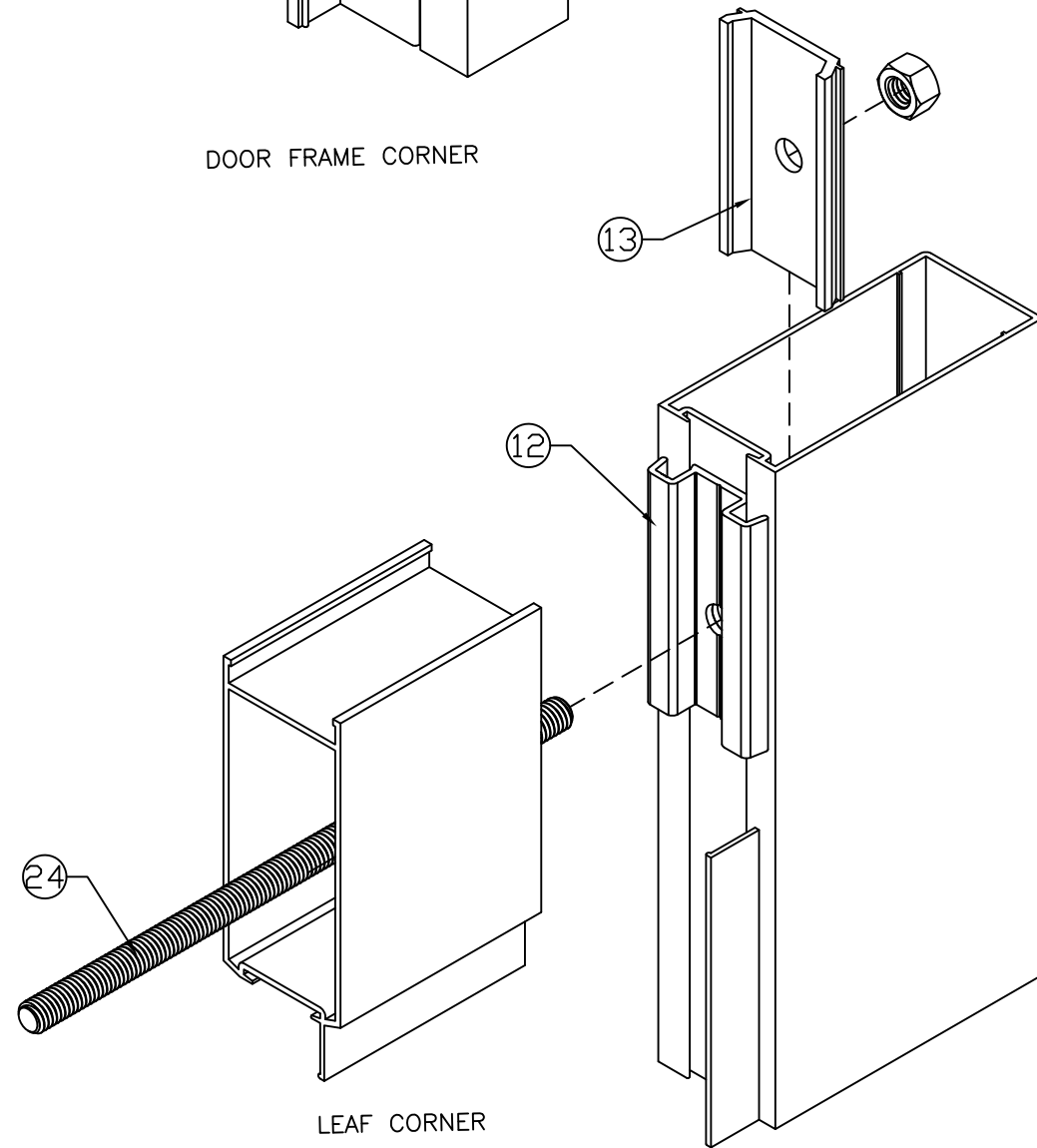
ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL: (305) 885-5299 FAX: (305) 885-5902	SERIES 600 ALUM. OUTSWING ENTRANCE DOOR (S.M.I.)	6/5/2022	HONG C.	FD600FPA - SMI	A
EXTRUSION PROFILES					
SERIES 600				8 OF 9	





DOOR FRAME CORNER

SIDELITE FRAME CORNER



LEAF CORNER

Revision:
 REVISED
 TABLE
 FORMAT,
 ADDED DP
 TABLE
 ROUNDING
 AND ANCHOR
 HEAD TYPE
 NOTES,
 REMOVED
 SILICONE AND
 BACKSTOP ON
 INSTALL DETAIL

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		Date 6/5/2022		Revis. A	
ECO WINDOW SYSTEMS, LLC. 8602 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902		SERIES 600 ALUM. OUTSWING ENTRNCE DOOR (S.M.I.)		Drawn HONG C.		DWG No. FD600FPA - SMI	
window systems ASSEMBLY CORNER DETAILS		SERIES 600		Sheet 9 OF 9		Title ASSEMBLY CORNER DETAILS	

