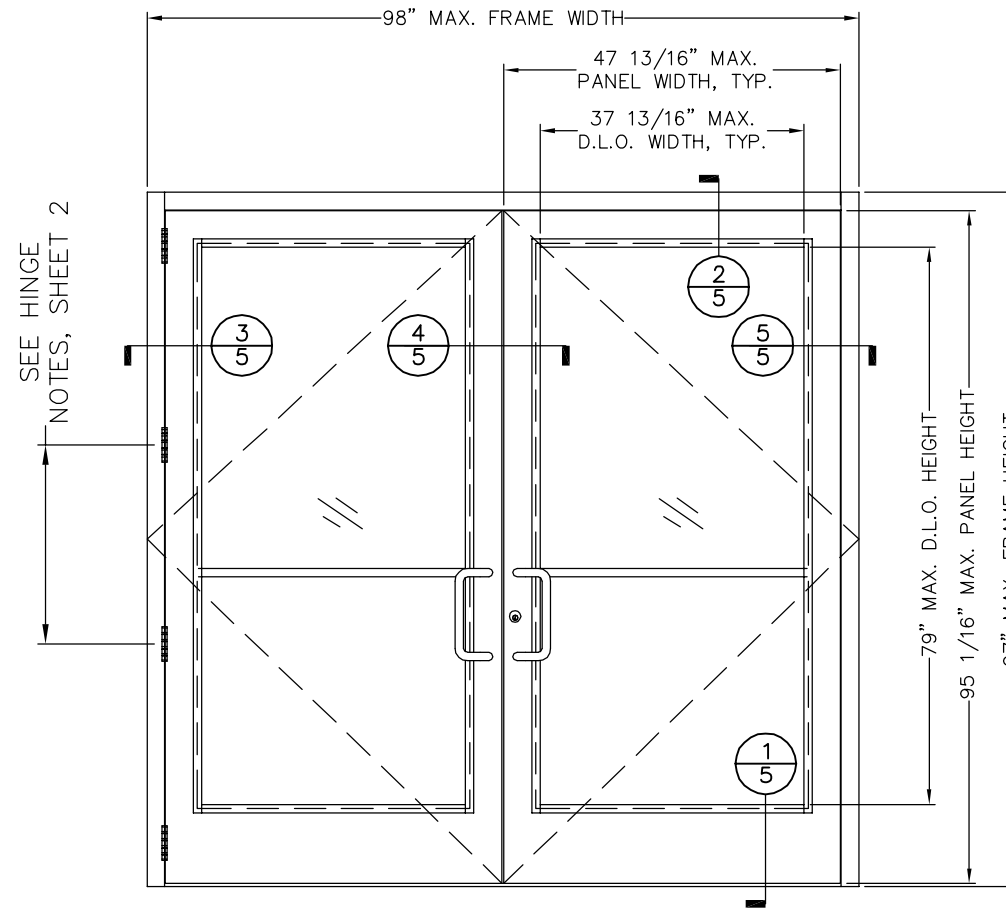


GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED TO ASTM E1886/1996, ASTM E283, AND ASTM E330, AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CURRENT EDITION, OUTSIDE THE HIGH VELOCITY HURRICANE ZONE.
2. THIS PRODUCT IS LARGE MISSILE IMPACT RESISTANT (WIND ZONE 3 MISSILE LEVEL D) AND DOES NOT REQUIRE THE USE OF SHUTTERS IN WIND ZONE 3 OR BELOW WINDBORNE DEBRIS REGIONS.
3. ALLOWABLE CONFIGURATIONS: X (SINGLE PANEL) OR XX (DOUBLE PANEL). PANELS MAY BE INSTALLED INTO APPROVED TUBELITE FRAMING (SEE SEPARATE APPROVALS), WITH THE LOWER OF THE DOOR OR FRAMING DESIGN PRESSURES APPLYING TO THE ENTIRE ASSEMBLY.
4. THE DESIGN PRESSURE RATINGS OF THIS PRODUCT ARE AS LIMITED BY ASTM E-1300 04E01/09 GLASS TABLES, TESTED PRESSURES, AND RATIONAL ANALYSIS FOR SOME HARDWARE TYPES.
5. THIS PRODUCT IS NOT TESTED FOR WATER INFILTRATION RESISTANCE AND IS INTENDED FOR USE ONLY IN DRY LOCATIONS OR THOSE WITH A 1:1 OVERHANG IN ACCORDANCE WITH THE FBC. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER PERFORMANCE OF INSTALLED PRODUCTS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTRUCTIONS AND ARE THE RESPONSIBILITY OF OTHERS.
6. THE 4/3 ALLOWABLE STRESS INCREASE HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF WOOD SUBSTRATE ONLY.
7. STRUCTURAL SUITABILITY OF THE OPENING TO RECEIVE LOADS IMPARTED FROM THIS PRODUCT TO BE VERIFIED BY THE DESIGN PROFESSIONAL FOR EACH PROJECT. BUCKING, OPENINGS & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
8. DISSIMILAR MATERIALS THAT COME INTO CONTACT, INCLUDING BUT NOT LIMITED TO FASTENERS IN PRESSURE TREATED WOOD, SHALL BE COATED OR OTHERWISE PROTECTED PER FBC TO PREVENT GALVANIC REACTIONS.
9. INSTALLATIONS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS UNLESS OTHERWISE APPROVED BY A LICENSED DESIGN PROFESSIONAL.
10. THIS DOOR PANEL MAY BE USED IN THE TUBELITE MONUMENTAL DOOR FRAMING IN CURTAIN WALL FRAMING (SEE SEPARATE APPROVAL), WITH DESIGN PRESSURES LIMITED TO THE LOWER OF THOSE IN THIS APPROVAL OR THE MONUMENTAL DOOR APPROVAL.
11. SASH PROFILE WIDTHS AS INDICATED IN THIS DRAWING ARE MINIMUMS. WIDER TUBELITE SASH EXTRUSION WIDTHS (RESULTING IN SMALLER GLASS D.L.O.'S) SUCH AS BUT NOT LIMITED TO THE WIDE STILE SASH, ARE ACCEPTABLE WITH THE SAME MAX. PANEL WIDTHS AND HEIGHTS AND DESIGN PRESSURES AS INDICATED IN THESE DRAWINGS.

TABLE OF CONTENTS:

SHEET	DESCRIPTION
1	GEN. NOTES, ELEV. A
2	ELEV. B & C, HINGE NOTES
3	ANCHOR LOC. ELEVATIONS
4	INSTALLATION, GLAZING
5	SECTION DETAILS
6	PROFILE DRAWINGS
7	BILL OF MATERIALS



ELEVATION A

3-POINT LOCK ACTIVE, FLUSH BOLTS INACTIVE

ELEVATION A			
QUALIFIED LOCKING HARDWARE	BOTTOM OF DOOR TO LOCK CENTERLINE	DESIGN PRESSURE RATING (PSF)	IMPACT RATING
ACTIVE: ADAMS-RITE 1853A (DEADLOCK 3-POINT WITH FLUSH BOLTS MS1850S 1-1/2 BACKSET, 4015 THRESHOLD BOLT AT BOTTOM OF PANEL, 4016 BOLT AT TOP OF PANEL)			
INACTIVE: 1) ADAMS-RITE MS1881, MS2180, OR P1010-OR TWO POINT FLUSH BOLTS 2) INTERNATIONAL F1203 STANDARD FLUSH BOLTS, PART #P059 WITH #P849 GUIDE, ON TOP AND BOTTOM OF PANEL	35 1/2"	+65/-60	LARGE MISSILE IMPACT WIND ZONE 3

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ALUMINUM OUTSWING
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(WIND ZONE 3 IMPACT)

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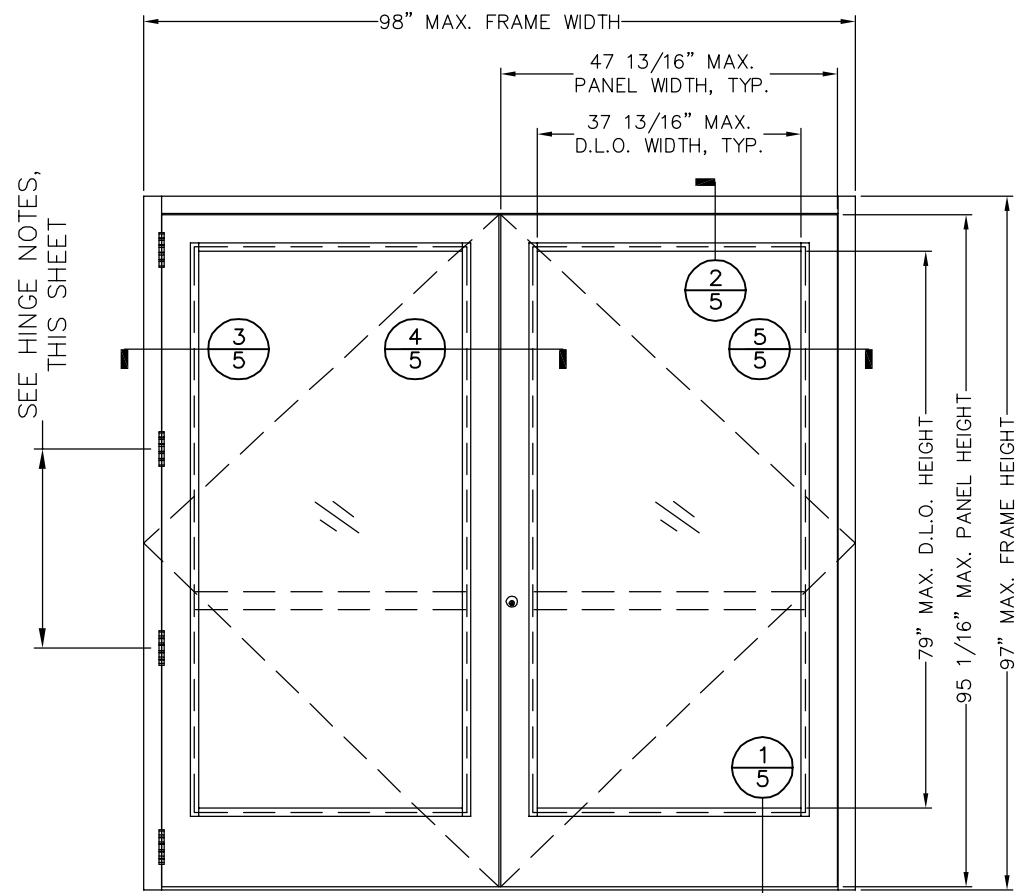


REVISION HISTORY:

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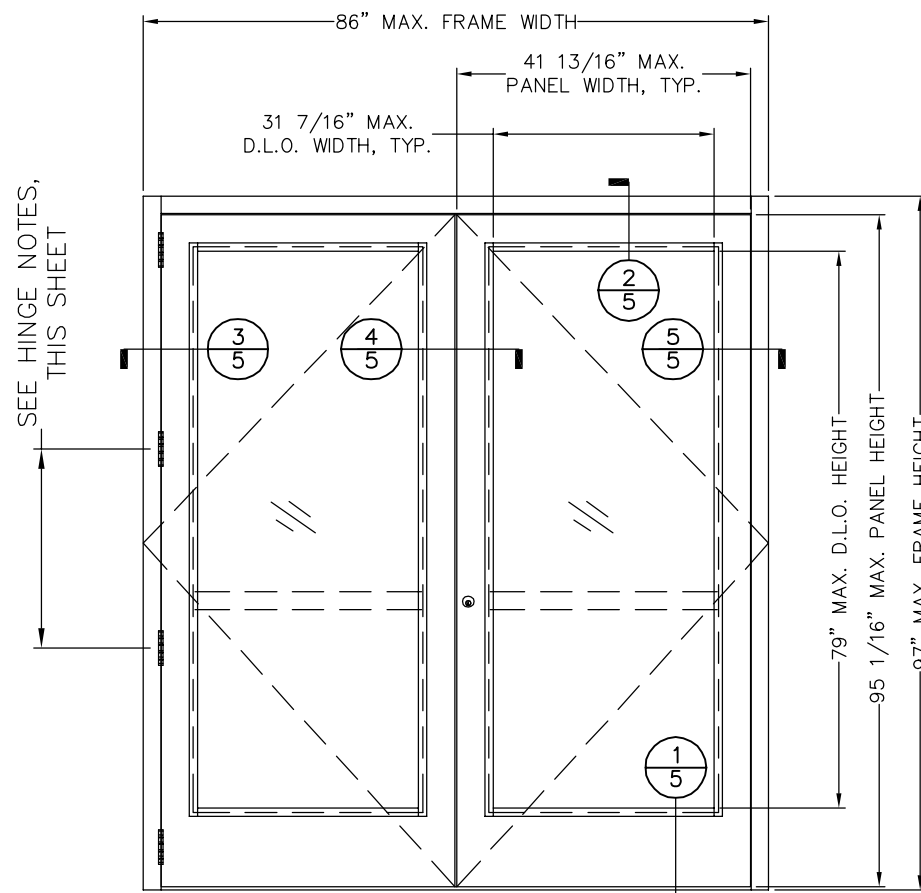
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FINAL REVIEW:	
SCALE:	N.T.S.
REVISION:	0
SHEET NAME:	GEN. NOTES, ELEVATION A
SHEET:	1 OF 7

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ELEVATION B

CONCEALED VERTICAL ROD / CABLE EXIT DEVICES



ELEVATION C

CONCEALED VERTICAL ROD EXIT DEVICE

APPROVED HINGE OPTIONS FOR ELEVATIONS A, B, AND C:

- 1) MORTISED HD HAGER BUTT HINGE BB-1199 WITH TWO BUTT HINGE REINFORCEMENTS (PART #P2093) PER HINGE:
 3'X7' NOM. MAX. PANEL: THREE (3) HINGES PER PANEL AT 5-11/16" MAX. FROM BOTTOM OF DOOR AND 36-3/8" O.C. THEREAFTER EQUALLY SPACED.
 4'X8' NOM. MAX. PANEL: FOUR (4) HINGES PER PANEL AT 5-11/16" MAX. FROM BOTTOM OF DOOR AND 28-1/4" O.C. THEREAFTER EQUALLY SPACED.

- 2) MAX. DP 50 PSF: RIXON OFFSET PIVOT HINGES 180/147/M19L, FOUR HINGES PER PANEL AT TOP AND BOTTOM OF PANEL AND TWO EQUALLY SPACED BETWEEN, WITH TOP PIVOT AND INTERMEDIATE PIVOT REINFORCEMENTS

- 3) MAX. DP 50 PSF: CONTINUOUS HINGE SELECT SL11HD

- 4) MAX. DP +65/-60 PSF: CONTINUOUS HINGE HAGER-ROTON 780 OR PEMKO KCFM-95HD1

ELEVATION B			
QUALIFIED LOCKING HARDWARE	BOTTOM OF DOOR TO LOCK CENTERLINE	DESIGN PRESSURE RATING (PSF)	IMPACT RATING
JACKSON 2086 CVR	40 5/8"	+65/-60	LARGE MISSILE IMPACT WIND ZONE 3
SARGENT AD/MD8400 CVR	40 9/16"		
ADAMS G86 CVR	39 9/16"		
CALIBRE 9100 CVR	40 9/16"		
VON DUPRIN HH98/9947 CVR	40 5/8"		
FIRST CHOICE 3600 CVR	40 5/8"	+/-50	
VON DUPRIN 98/9949 CV CABLE	40 5/8"		
FALCON HSEC 1690 CVR	40 9/16"		
SARGENT MD8600 CVR	40 9/16"		

ELEVATION C			
QUALIFIED LOCKING HARDWARE	BOTTOM OF DOOR TO LOCK CENTERLINE	DESIGN PRESSURE RATING (PSF)	IMPACT RATING
JACKSON 1285 CVR	40 5/8"	+65/-60	LARGE MISSILE IMPACT WIND ZONE 3



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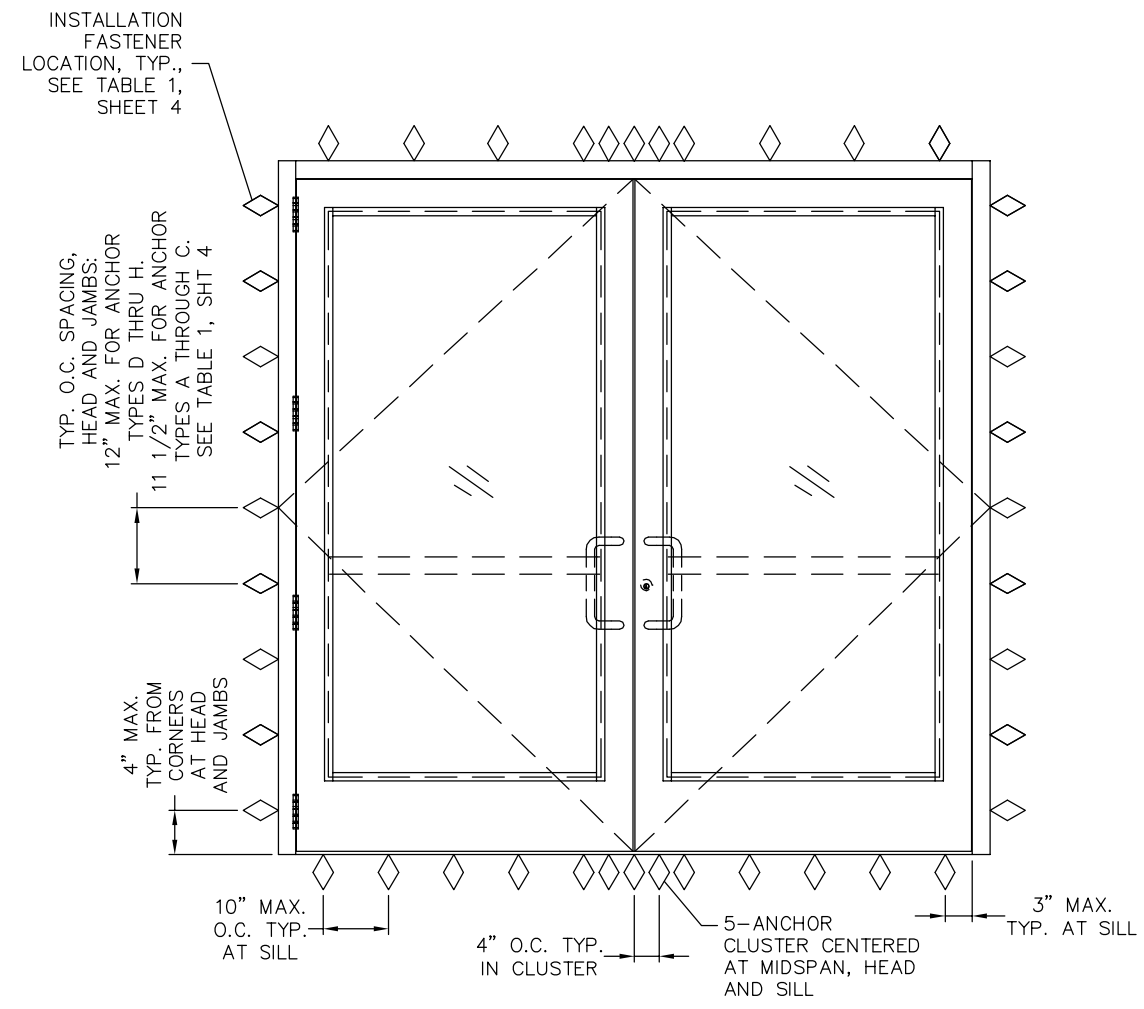
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REVISION:	0
SHEET NAME:	ELEVATIONS B AND C, HINGE NOTES
SHEET:	2 OF 7

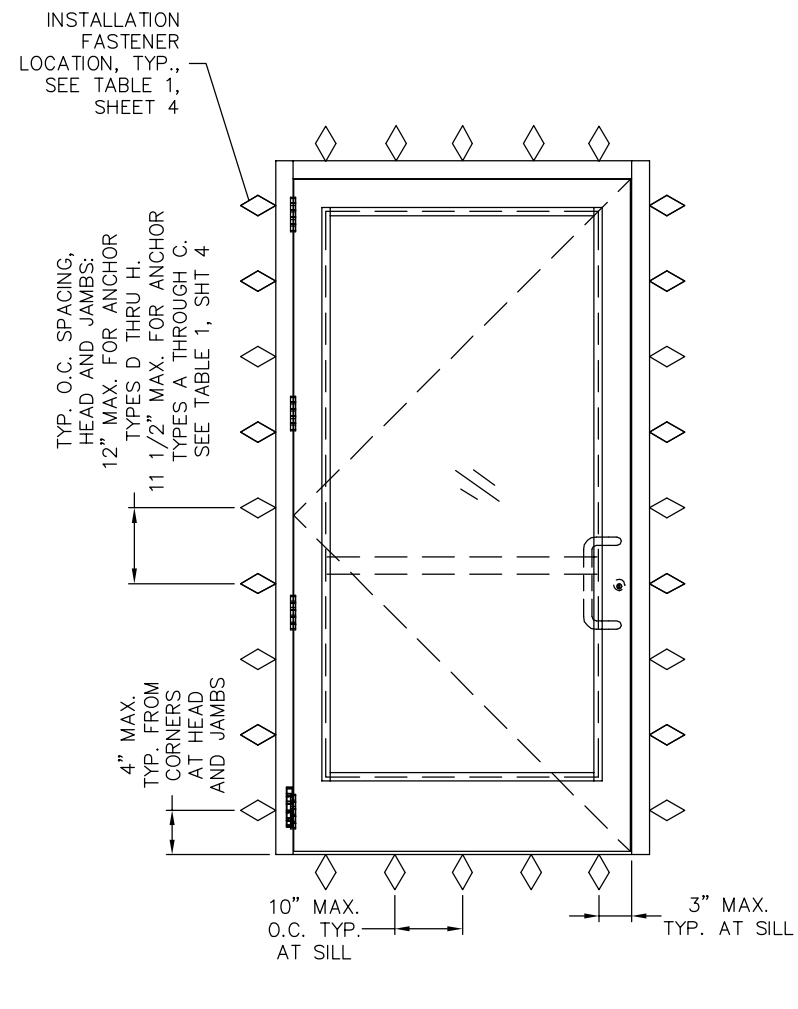
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XX ANCHOR LOCATION ELEVATION



X ANCHOR LOCATION ELEVATION



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REVISION:	0
SHEET NAME:	ANCHOR LOCATION ELEVATIONS
SHEET:	3 OF 7

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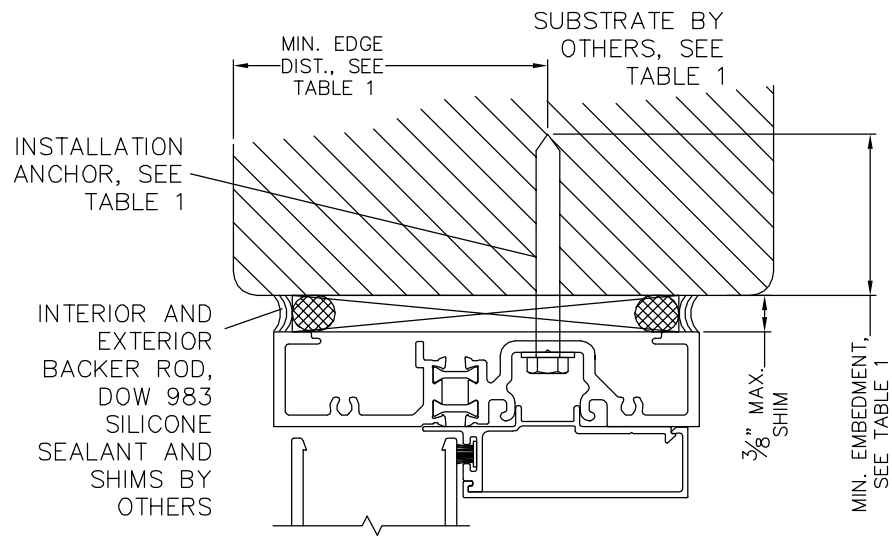
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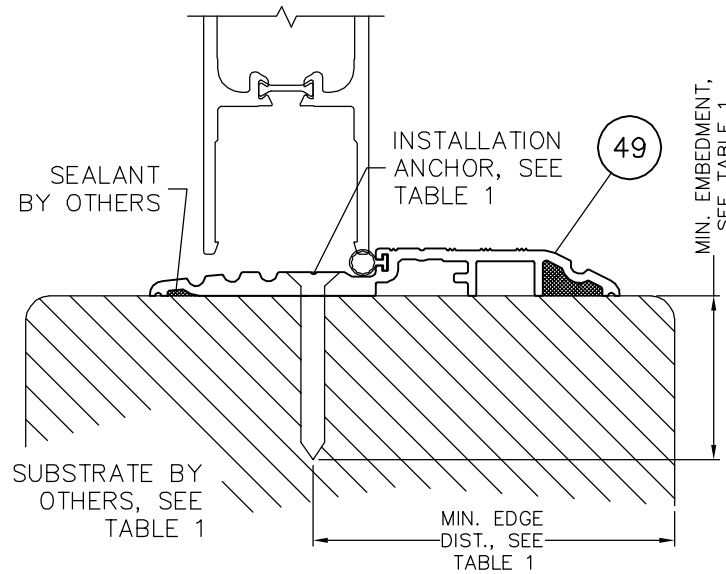
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INSTALLATION,
ASSEMBLY,
GLAZING DETAIL

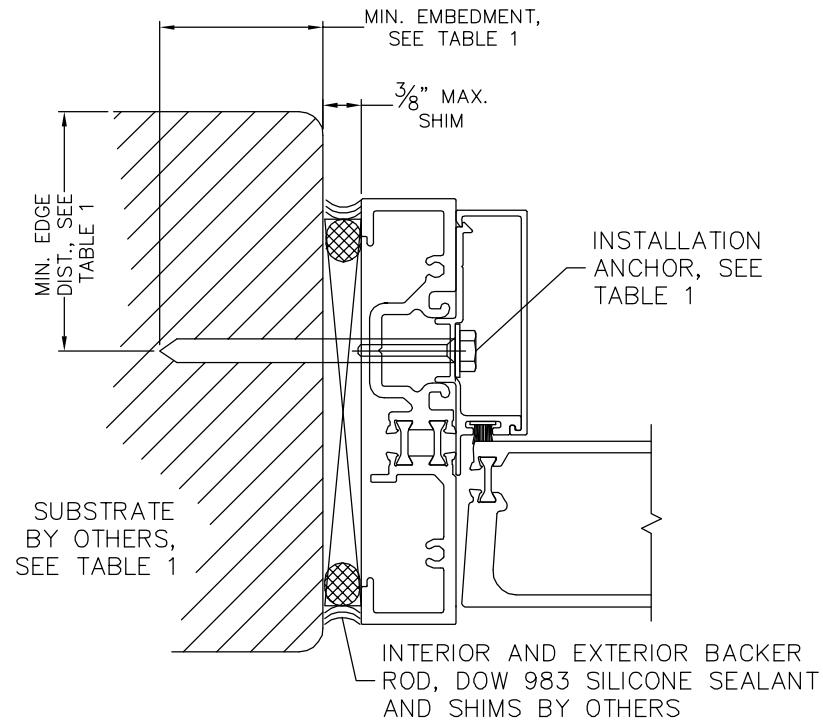
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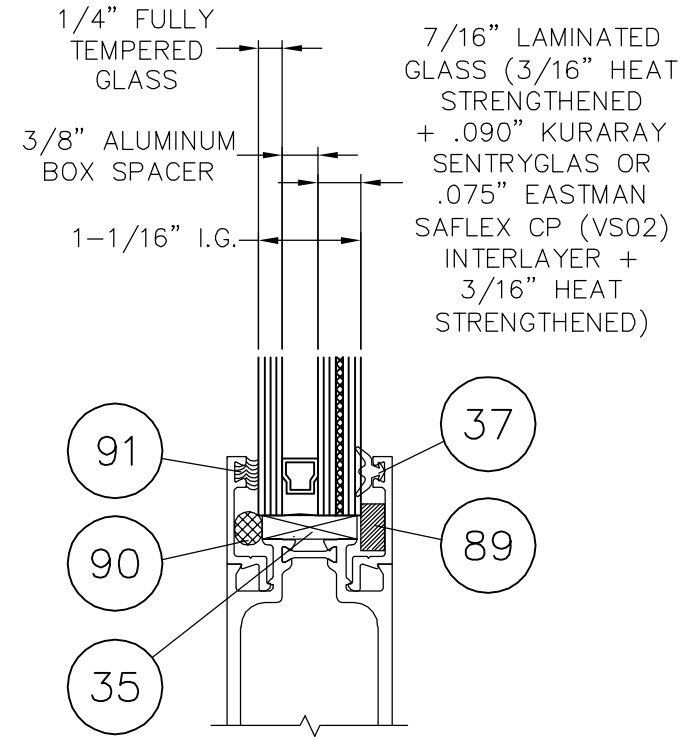
EXT. TYPICAL HEAD ANCHORAGE



TYPICAL THRESHOLD ANCHORAGE



TYPICAL JAMB ANCHORAGE



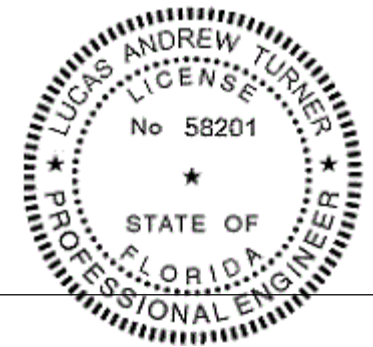
TYP. GLAZING DETAIL

TABLE 1. QUALIFIED ANCHOR INFORMATION

ID	SUBSTRATE	ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE
A	CONCRETE OR GROUT-FILLED CMU (2850 PSI MIN)	1/4" ELCO COATED CARBON STEEL ULTRACON	1 3/4"	2 1/2"
B	CONCRETE OR GROUT-FILLED CMU (2000 PSI MIN)	1/4" ITW COATED CARBON STEEL TAPCON	1 1/2"	3"
C	SOLID UNCRACKED CONCRETE (3000 PSI MIN)	1/4" ITW 410 STAINLESS TAPCON	1 3/4"	2 1/2"
D	SOLID UNCRACKED CONCRETE (3000 PSI MIN)	1/4" HILTI COATED CARBON STEEL OR STAINLESS STEEL KWIK-CON II	1"	2 1/2"
E	HOLLOW OR GROUT-FILLED CMU (ASTM C-90)	1/4" HILTI COATED CARBON STEEL OR STAINLESS STEEL KWIK-CON II	1"	2 1/2"
F	2x MIN. SOUTHERN PINE WOOD (G=0.55 MIN)	1/4" GRADE 5 LAG SCREW	1 3/8"	1"
G	16 GAUGE (0.060") MIN. STEEL STUD 33 KSI YIELD MIN.	1/4-14 ITW TEKS, ELCO DRIL-FLEX, OR HILTI-KWIK FLEX	SEE NOTE 5	1/2"
H	1/8" ALUM. 6063-T5 MIN. OR 1/8" STEEL 33 KSI MIN.	1/4" GRADE 5 SELF-TAPPING / DRILLING SCREW	SEE NOTE 5	1/2"

ANCHORAGE NOTES:

- SHIMS SHALL BE LOAD-BEARING (PLASTIC OR METALLIC) AND CAPABLE OF TRANSFERRING APPLIED LOADS FROM THE PRODUCTS TO THE OPENING SUBSTRATES.
- SHIM EACH ANCHOR LOCATION WHERE GAP GREATER THAN 1/16" EXISTS BETWEEN PRODUCT FRAME AND OPENING SUBSTRATE.
- SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
- MINIMUM ANCHOR SPACING SHALL BE 4"
- ANCHORS THROUGH METAL SHALL BE OF SUFFICIENT LENGTH TO PROVIDE THREAD ENGAGEMENT THROUGH THE FULL METAL WALL THICKNESS



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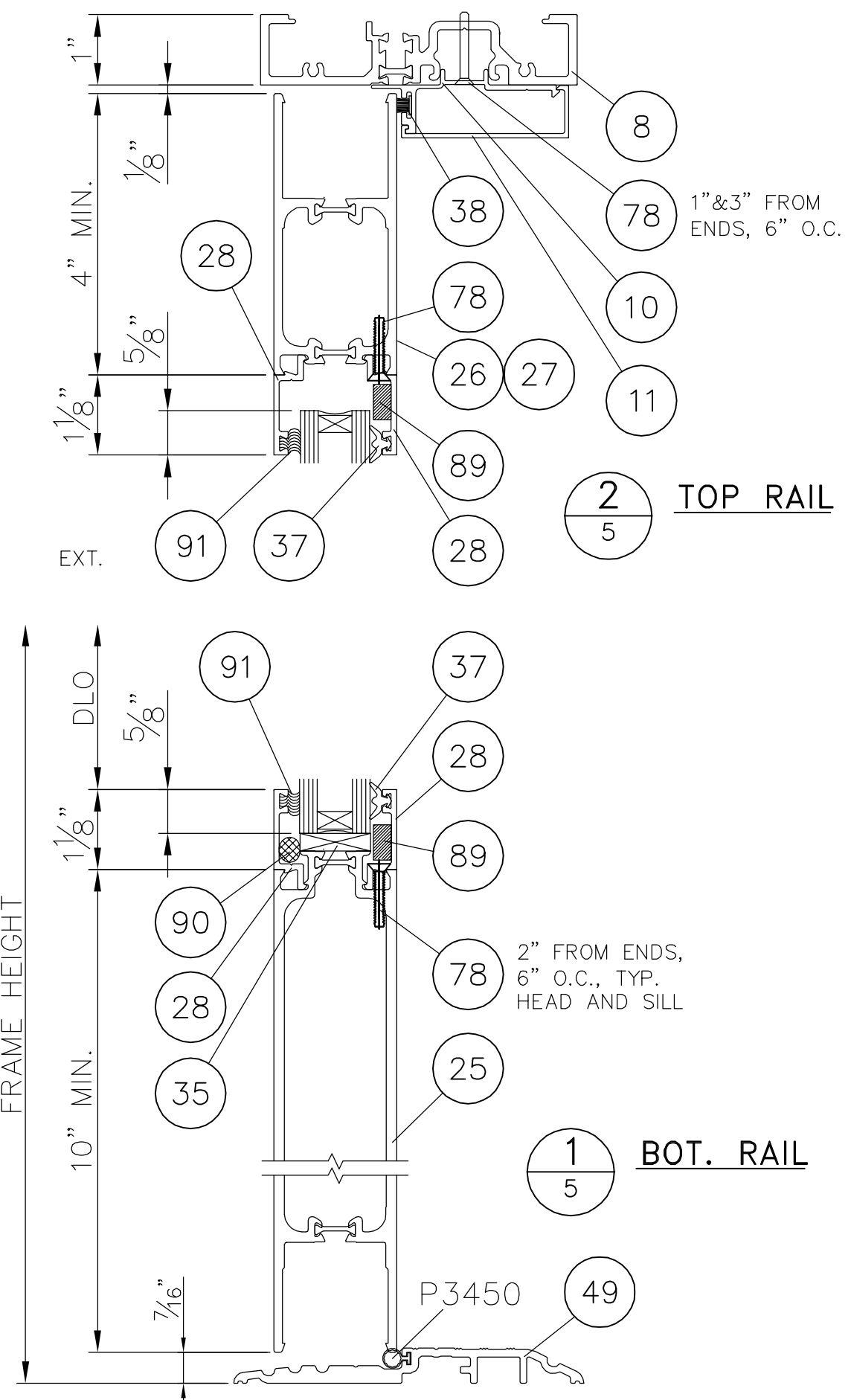
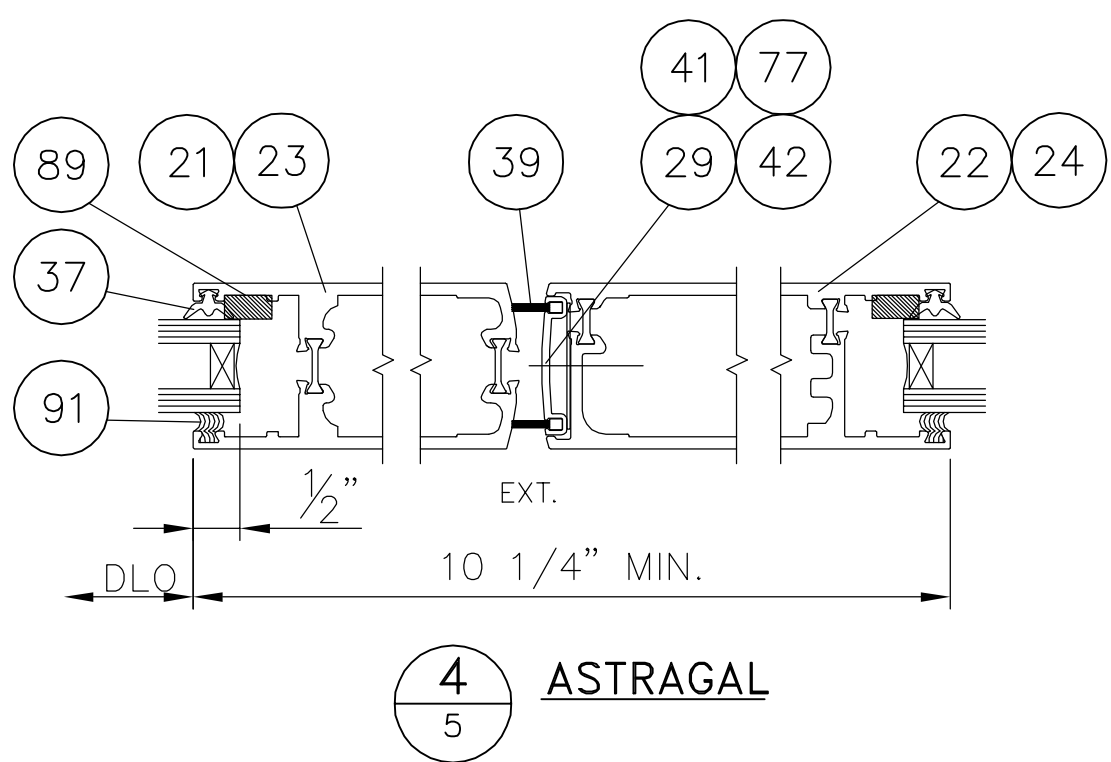
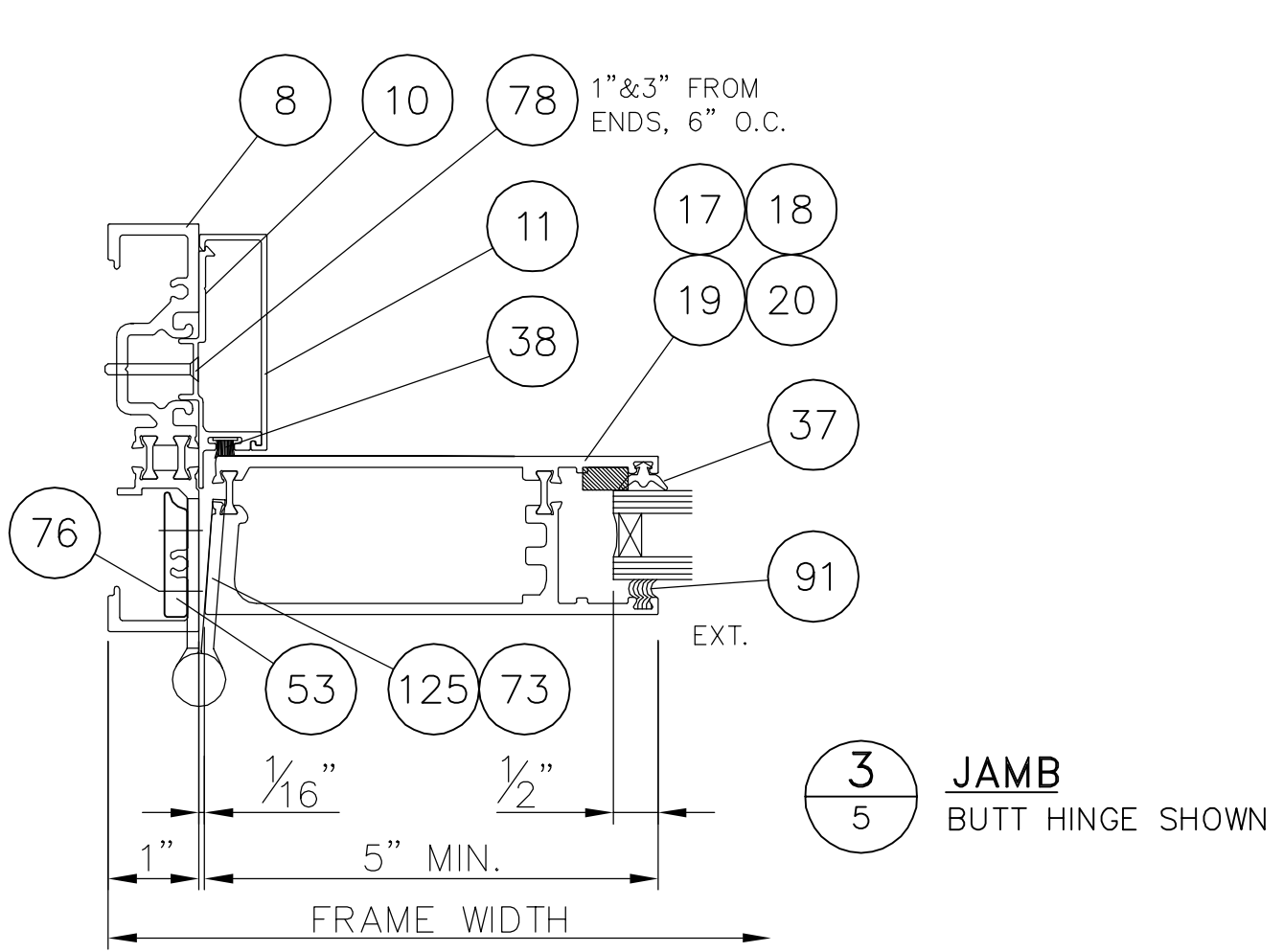
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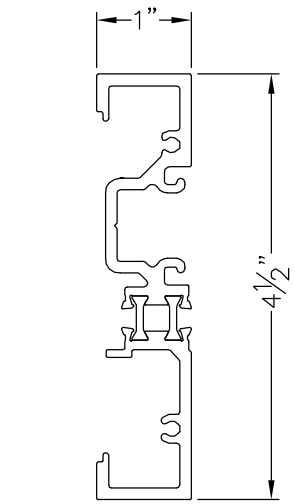
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SHEET NAME:
SECTION DETAILS
SHEET: 5 OF 7

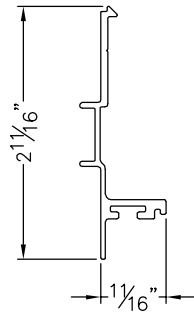


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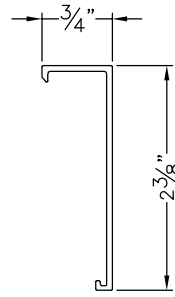




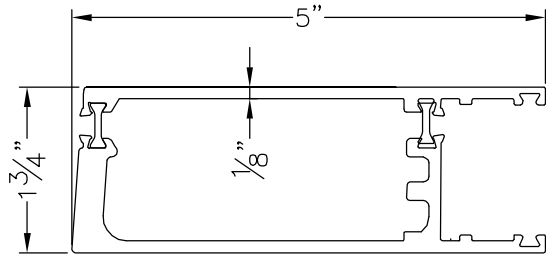
ITEM 8 - EA62667
THERMAL SUB-FRAME



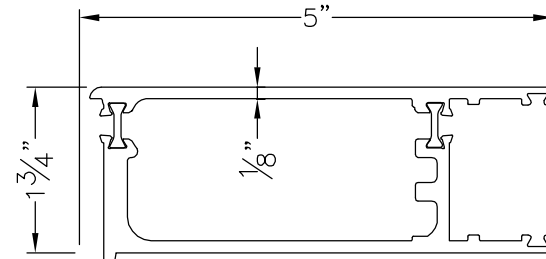
ITEM 10
E6640 INNER
DOOR STOP



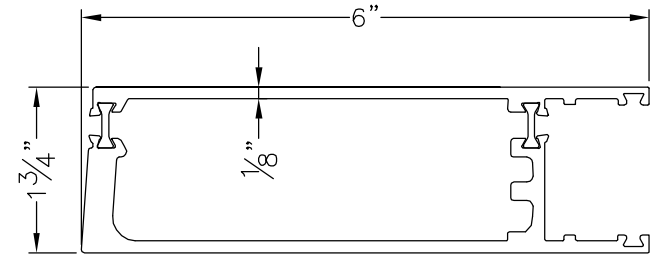
ITEM 11
E6641 CAP
DOOR STOP



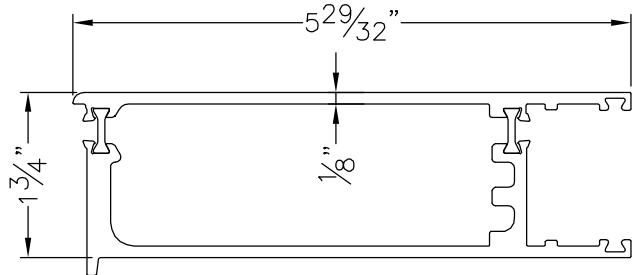
ITEM 17 - A627879
ASSEMBLY
MED STILE - HINGE



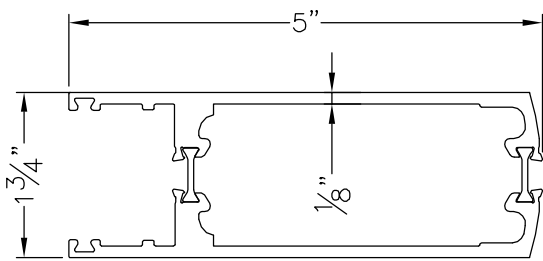
ITEM 18 - A627071
ASSEMBLY
MED STILE - CONTINUOUS HINGE



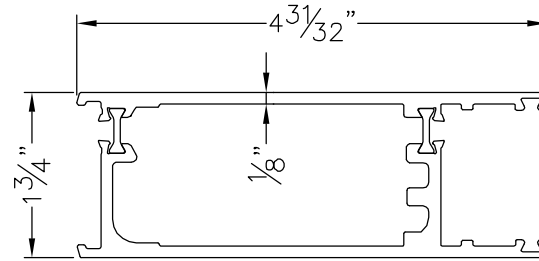
ITEM 19 - A627677
ASSEMBLY
WIDE STILE - HINGE



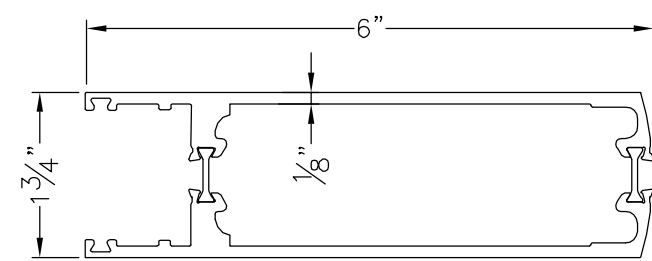
ITEM 20 - A627273
ASSEMBLY
WIDE STILE - CONTINUOUS HINGE



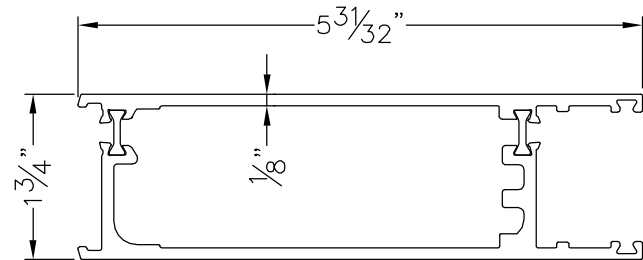
ITEM 21 - A628282
ASSEMBLY
MED RD FACE STILE



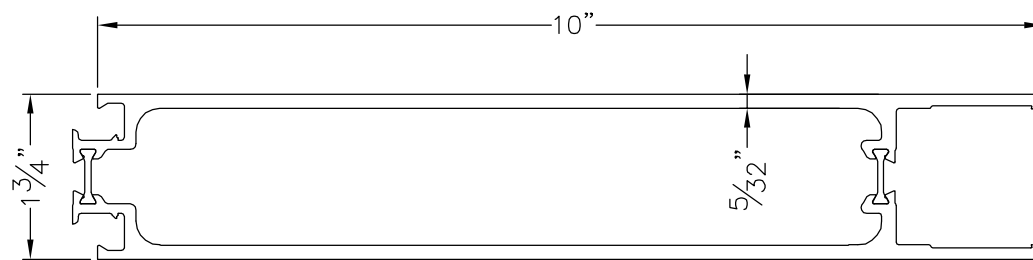
ITEM 22 - A628384
ASSEMBLY
MED STILE - LOCK W/ASTRAGAL



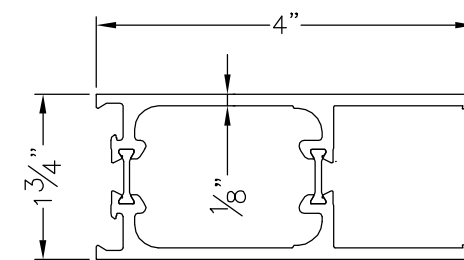
ITEM 23 - A628181
ASSEMBLY
WIDE RD FACE STILE



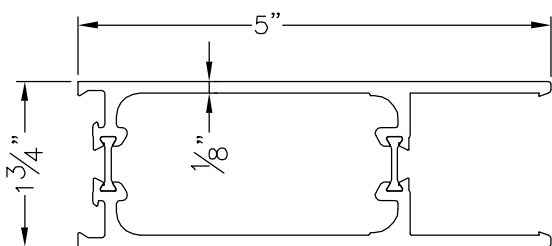
ITEM 24 - A628085
ASSEMBLY
WIDE STILE - LOCK W/ASTRAGAL



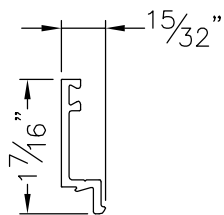
ITEM 25 - A621010
ASSEMBLY
BOTTOM RAIL



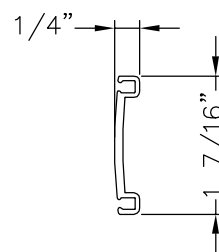
ITEM 26 - A621414
ASSEMBLY
MED STILE TOP RAIL



ITEM 27 - A621515
ASSEMBLY
WIDE STILE TOP RAIL



ITEM 28 - E6513
GLAZING STOP



ITEM 29 - E1152
ASTRAGAL



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SCALE: N.T.S.

REVISION: 0

SHEET NAME:

PROFILE DRAWINGS

SHEET: 6 OF 7

THERMAL SERIES MEDIUM STILE DOUBLE DOOR W/1" SUB-FRAME - PARTS LIST			MATERIAL
ITEM	PART NUMBER	DESCRIPTION	
8	A626667	EXTRUSION ASSEMBLY, 1" SUB-FRAME JAMB & HEAD	ALUMINUM - 6063-T5
10	E6640	EXTRUSION INNER DOOR STOP PRE-DRILLED	ALUMINUM - 6063-T5
11	E6641	EXTRUSION OUTER DOOR STOP	ALUMINUM - 6063-T5
17	A627879	EXTRUSION ASSEMBLY, STILE MED, HINGE LEFT	ALUMINUM - 6063-T5
18	A627071	EXTRUSION ASSEMBLY, STILE MED, CONT. HINGE LEFT	ALUMINUM - 6063-T5
19	A627677	EXTRUSION ASSEMBLY, STILE WIDE, HINGE LEFT	ALUMINUM - 6063-T5
20	A627273	EXTRUSION ASSEMBLY, STILE WIDE, CONT. HINGE LEFT	ALUMINUM - 6063-T5
21	A628282	EXTRUSION ASSEMBLY, STILE, MED, (DOOR)	ALUMINUM - 6063-T5
22	A628384	EXTRUSION ASSEMBLY, STILE, MED, LOCK LEFT	ALUMINUM - 6063-T5
23	A628181	EXTRUSION ASSEMBLY, STILE, WIDE, (DOOR)	ALUMINUM - 6063-T5
24	A628085	EXTRUSION ASSEMBLY, STILE, WIDE, LOCK LEFT	ALUMINUM - 6063-T5
25	A621010	EXTRUSION ASSEMBLY, RAIL, BOTTOM 10" (DOOR)	ALUMINUM - 6063-T5
26	A621414	EXTRUSION ASSEMBLY, RAIL, TOP 4" (DOOR)	ALUMINUM - 6063-T5
27	A621515	EXTRUSION ASSEMBLY, RAIL, TOP 5" (DOOR)	ALUMINUM - 6063-T5
28	E6513	EXTRUSION GLASS STOP TOP & BOTTOM RAIL	ALUMINUM - 6063-T5
29	E1152	EXTRUSION ASTRICAL (DOOR)	ALUMINUM - 6063-T5
35	P1912	BLOCK, SETTING, 1/4 X 1/2 X 4" LONG	P-PART - RUBBER
36	P2183	GASKET, GLASS, EPG	P-PART - RUBBER
38	P1098A	PILE, DOOR STOP, AMESBURY GROUP	P-PART - PLASTIC/FAB.
39	P938	PILE, DOOR STOP, AMESBURY GROUP	P-PART - PLASTIC/FAB.
40	P6545-OR	THRESHOLD NATIONAL GAURD PRODUCTS #8436N 96	P-PART - ALUMINUM
41	P1539	SPRING, STEEL, ASTRAGAL, ADJUSTABLE, (DOOR)	P-PART - HARDWARE
42	P1553	WASHER, SCREW & SHOULDER SCREW (DOOR)	P-PART - FASTENER
43	P518	LABEL, DOOR, GREEN BRUSHED SILVER (DOOR)	P-PART - LABEL
45	P908	SCREW, 10-24 X 1/2 FH MACH PHIL (DOOR)	P-PART - FASTENER
46	P020B	ROD, THREADED TIE, 3/8" (DOOR)	P-PART - FASTENER
48	P676	TAB - FOR MORTISED LOCKS (DOOR)	P-PART - HARDWARE
49	E3550	EXTRUSION ~ THRESHOLD	ALUMINUM-6063-T6
51	P853	WASHER, DOOR ROD (DOOR)	P-PART - HARDWARE
53	P1218	HINGE, BUTT, REINFORCEMENT (P1218) (DOOR)	P-PART - HARDWARE
68	S202	SCREW, 10-24 X 1 TYPE 23 HEX HEAD PHIL SUB FRAME	P-PART - HARDWARE
71	S193	SCREW, 1/4-20 X 5/8 PAN HEAD PHIL	P-PART - FASTENER
72	S092	SCREW, 1/4-20 X 1-1/2 FLAT HEAD PHIL	P-PART - FASTENER
73	S070	SCREW, FLAT HEAD, 12-24 X 1/2" (HINGE SCREW)	P-PART - FASTENER
74	S071	NUT, STUD, 3/8-16 X 3/8 (DOOR TIE ROD)	P-PART - FASTENER
75	S186	WASHER, 1/2 OD X 1/4 ID X .062 ALUMINUM (DOOR)	P-PART - FASTENER
76	S161	SCREW, 10-24 X 1/2 FLAT HEAD PHIL (HINGE/FLUSH BOLTS)	P-PART - FASTENER
77	S341	SCREW, PHIL HEAD, 10-24 X 3/4 (ASTRAGAL)	P-PART - FASTENER
78	S6504	SCREW, 6-32 X 1 FT HD PHIL, TYPE F (glass stop/dr stop)	P-PART - FASTENER
86	S055	SCREW, #12 x 3" FLAT HEAD PHIL	P-PART - FASTENER

ITEM	PART NUMBER	DESCRIPTION	MATERIAL
88	BY OTHERS	SCREW, 1/4 X 2-1/2" LAG GALVINIZED (FOR WOOD SUBSTRATE)	P-PART - FASTENER
89		GLAZING TAPE	P-PART - TAPE
90		GLAZING 3/8"Ø BACKER ROD	P-PART -
91	DOW 995	DOW 995 SILICONE AND BACKER ROD FOR WET GLAZING	P-PART - SEALANT
125	P1558-C2	P1558-C2 BUTT HINGE (HAGER)	P-PART-HARDWARE
	P573-C2	P573-C2 RIM CYLINDER (RYADON)	P-PART-FASTENER
		2086-47 X 96 CVR PANIC FIN-628 LHR (JACKSON)	P-PART-FASTENER
		2086-47 X 96 CVR PANIC FIN-628 LHR (JACKSON)	P-PART-FASTENER
		30-1084 TOP & BOTTOM STRIKE (JACKSON)	P-PART-FASTENER
		30-821J CYLINDER KIT FIN -628 RHR (JACKSON)	P-PART-FASTENER
	P1564-C2	P1564-C2 PULL (ROCKWOOD)	P-PART-HARDWARE
	NA	30-821J CYLINDER KIT FIN -628 RHR (JACKSON)	P-PART-HARDWARE
	P3449C-48-C2	VON DUPRIN 9949/9949 SERIES - FOR 48" WIDE DOOR (3449475CL)	P-PART-HARDWARE
	P3492C-48-C2	FIRST CHOICE FL3600 SERIES-FOR 48" WIDE DOOR (3492475CL)	P-PART-HARDWARE
	P3693A	EXTENSION ROD (NOT SHOWN, USE FL3600)	P-PART-HARDWARE
	P6533	MS 1881 ADAMS-RITE TWO POINT FLUSH BOLT	P-PART - HARDWARE
	P1010	ADAMS RITE 4015 BOLT & BOLT GUIDE, THRESHOLD (DOOR)	P-PART - HARDWARE
	P6509	ADAMS-RITE 4016-10 HEADER BOLT/GUIDE (DOOR)	P-PART - HARDWARE
	P6508	ADAMS-RITE MS1853S-410-000 ADAMS-RITE (DOOR)	P-PART - HARDWARE
	P059	STANDARD FLUSH BOLT INTERNATIONAL F1203 (DOOR)	P-PART - HARDWARE
	P1010-OR	P1010-OR TWO POINT THOLD BOLT (ADAMS RITE)	P-PART-HARDWARE
	P572	CYLINDER PARTS, P572-C2 (DOOR)	P-PART - HARDWARE
	P1564	BF156 PULL BAR, ROCKWOOD (DOOR)	P-PART - HARDWARE
	P6510	BF15747 PUSH/PULL BAR SET, 33" ROCKWOOD (DOOR)	P-PART - HARDWARE
	NA	LOCK CVR-FALCON HSEC 1690	P-PART-FASTENER
	NA	LOCK SARGENT MD8600	P-PART-FASTENER
	NA	2086-47 X 96 CVR PANIC FIN-628 LHR (JACKSON)	P-PART-FASTENER
	NA	G86 (ADAMS RITE)	P-PART-FASTENER
	NA	30-1084 TOP & BOTTOM STRIKE (JACKSON)	P-PART-FASTENER
	P695A	HINGE TOP FRAME OFFSET PIVOT RIXON 180	P-PART-HARDWARE
	P695B	HINGE TOP DOOR OFFSET PIVOT RIXON 180	P-PART-HARDWARE
	P695C	HINGE BOTTOM DOOR OFFSET PIVOT RIXON 147	P-PART-HARDWARE
	P695	HINGE FLOOR OFFSET PIVOT RIXON 147	P-PART-HARDWARE
	P751	HINGE INTERMEDIATE OFFSET PIVOT RIXON M19L	P-PART-HARDWARE
	P0360	INTERMEDIATE PIVOT REINFORCEMENT	P-PART-HARDWARE



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 10/17/2017
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REVISION HISTORY:

REV	DATE	DESCRIPTION
0	10.16.17	ORIGINAL RELEASE

DATE: 10.16.17

DRAWING NUMBER: FPA-THRM-LMI

DRAWN:

FINAL REVIEW:

SCALE: N.T.S.

REVISION: 0

SHEET NAME:

BILL OF MATERIALS

SHEET: 7 OF 7