

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED TO ASTM E283, ASTM E330, AND ASTM E331 (SEE NOTE 5 BELOW) AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CURRENT EDITION, OUTSIDE THE HIGH VELOCITY HURRICANE ZONE.
2. THIS PRODUCT IS NON-IMPACT AND REQUIRES THE USE OF SHUTTERS IN WINDBORNE DEBRIS REGIONS.
3. ALLOWABLE CONFIGURATION: X (SINGLE 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 GLASS TABLES, TESTED PRESSURES, AND RATIONAL ANALYSIS FOR SOME HARDWARE TYPES.
5. THIS PRODUCT IS RATED FOR LIMITED WATER INFILTRATION RESISTANCE (TESTING WAS PERFORMED WITH FULL WATER FLOW OF 5.0 GPH/FT², BUT ZERO TEST PRESSURE DIFFERENTIAL DURING WATER APPLICATION). WHERE THIS TESTING IS NOT APPLICABLE, THE DOOR SHALL BE INSTALLED 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), ARE ACCEPTABLE WITH THE SAME MAX. PANEL WIDTHS AND HEIGHTS AND DESIGN PRESSURES AS INDICATED IN THESE DRAWINGS.

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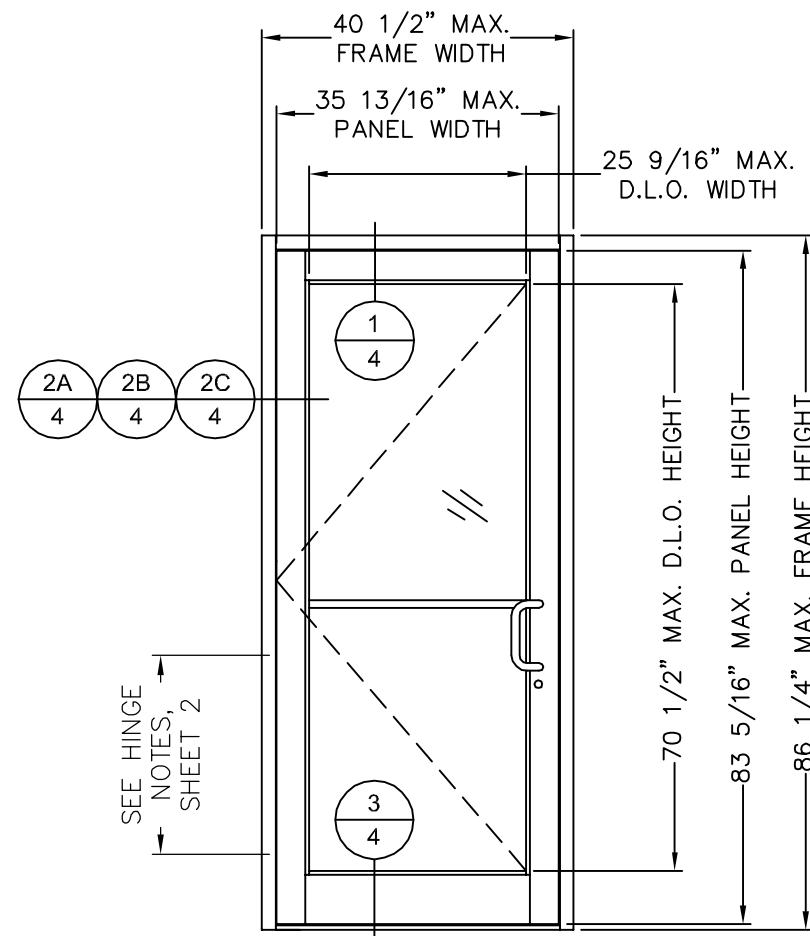
SHEET	DESCRIPTION
1	GEN. NOTES, ELEV. A
2	ELEV. B, HINGE NOTES, ANCHOR LOC. ELEVATION
3	INSTALLATION, GLAZING
4	SECTION DETAILS
5	PROFILE DRAWINGS
6	BILL OF MATERIALS

TUBELITE, INC.
MEDIUM AND WIDE STILE
ALUMINUM OUTSWING
ENTRANCE DOOR

TUBELITE
 STANDARD STILE
 ENTRANCE DOOR

3055 WALKER RIDGE DRIVE N.W.
 WALKER, MICHIGAN 49544
 PH: 800.866.2227
 FX: 616.901.0008
 WEB SITE: WWW.TUBELITEINC.COM

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 LEADERS IN ECO-EFFICIENT STOREFRONT,
 CURTAINWALL AND ENTRANCE SYSTEMS



ELEVATION A
 CYLINDER LOCK

ELEVATION A			
QUALIFIED LOCKING HARDWARE	BOTTOM OF DOOR TO LOCK CENTERLINE	DESIGN PRESSURE RATING (PSF)	IMPACT RATING
ADAMS-RITE 1850A CYLINDER LOCK WITH HANDLE	35"	+/-50.13	NONE



LT
 10/18/2017
 LUCAS A. TURNER, P.E.
 FL PE # 58201
 TURNER ENGINEERING &
 CONSULTING, INC.
 (COA # 29779)
 1239 JABARA AVE.
 NORTH PORT, FL 34288
 PH. 941-380-1574

REVISION HISTORY:

REV	DATE	DESCRIPTION
0	2.24.14	ORIGINAL RELEASE
A	10.18.17	ADDED HARDWARE

DATE: 02.24.14

DRAWING NUMBER: FPA-STND-NI

DRAWN:

FINAL REVIEW:

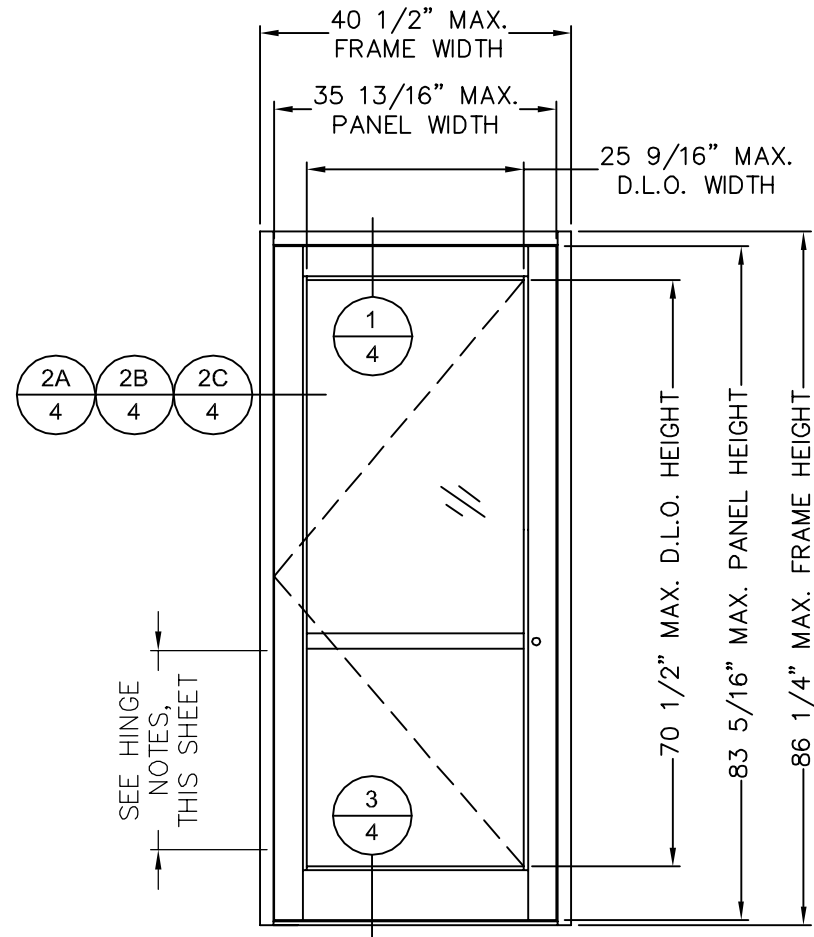
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REVISION: A

SHEET NAME:

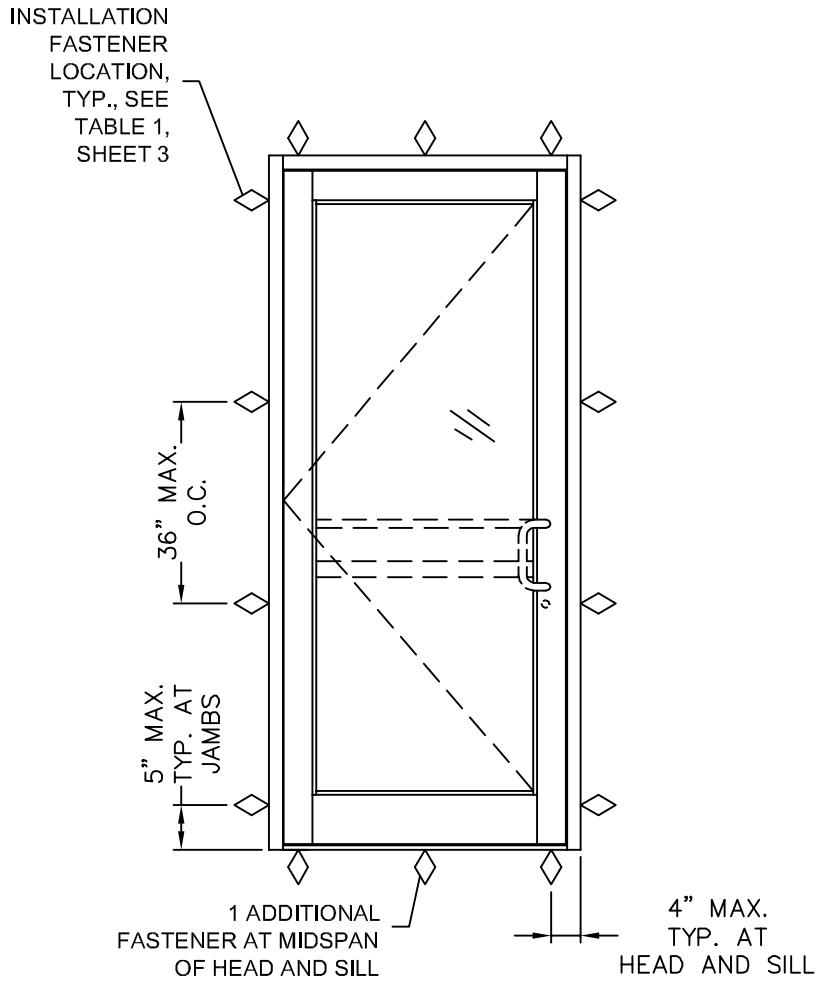
GEN. NOTES, ELEVATION A

SHEET: 1 OF 6



ELEVATION B

CONCEALED VERTICAL ROD / CABLE EXIT DEVICES



ANCHOR LOCATION ELEVATION

APPROVED HINGE OPTIONS FOR ELEVATIONS A AND B:

- 1) MORTISED HD HAGER BUTT HINGE BB-1199 WITH REINFORCEMENTS PER HINGE: THREE (3) HINGES PER PANEL AT 6" MAX. FROM TOP/BOTTOM OF DOOR AND ONE AT MIDSPAN
- 2) RIXON OFFSET PIVOT HINGES 180/147/M19L, THREE (3) HINGES PER PANEL AT TOP AND BOTTOM OF PANEL AND ONE AT MIDSPAN
- 3) CONTINUOUS HINGE: SELECT SL11HD, PEMKO KCFM-95HD1, OR HAGER-ROTON 780

ELEVATION B			
QUALIFIED LOCKING HARDWARE	BOTTOM OF DOOR TO LOCK CENTERLINE	DESIGN PRESSURE RATING (PSF)	IMPACT RATING
JACKSON 2086 CVR	40 5/8"	+/-50	NONE
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"		
VON DUPRIN 98/9949 CV CABLE	40 5/8"		
FALCON HSEC 1690 CVR	40 9/16"		
SARGENT MD8600 CVR	40 9/16"		
JACKSON 1285 CVR	40 5/8"		



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 STANDARD STYLE
 ENTRANCE DOOR**

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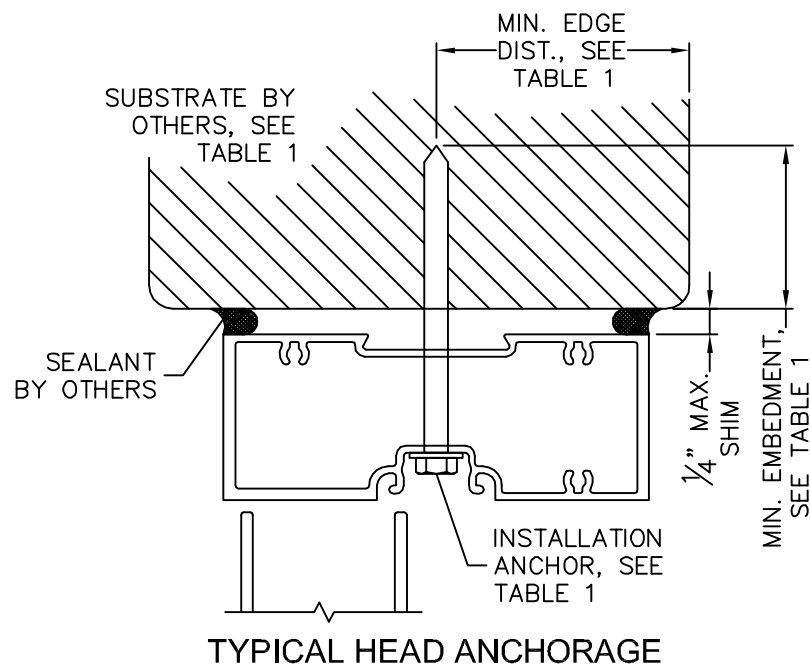
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REVISION: A

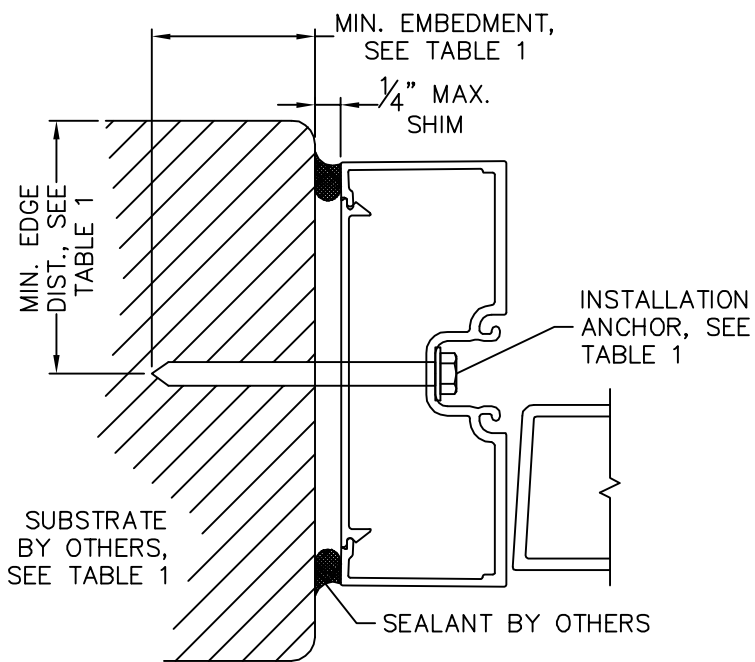
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ELEVATIONS B AND C, HINGE NOTES

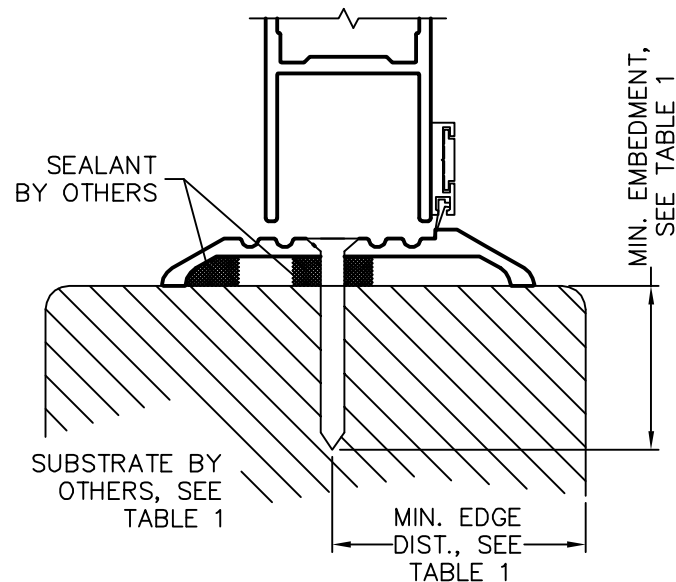
SHEET: 2 OF 6



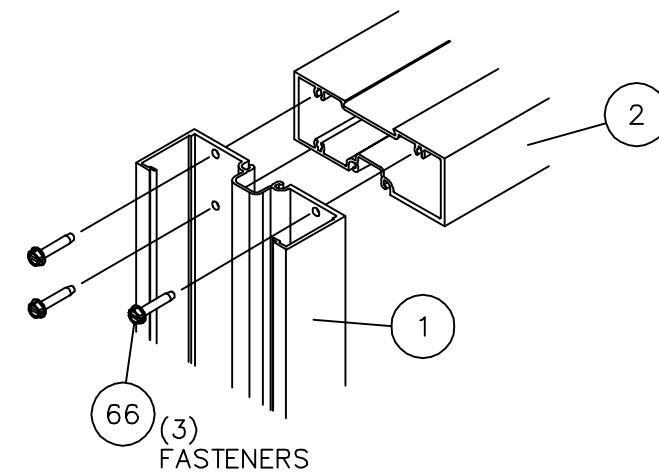
TYPICAL HEAD ANCHORAGE



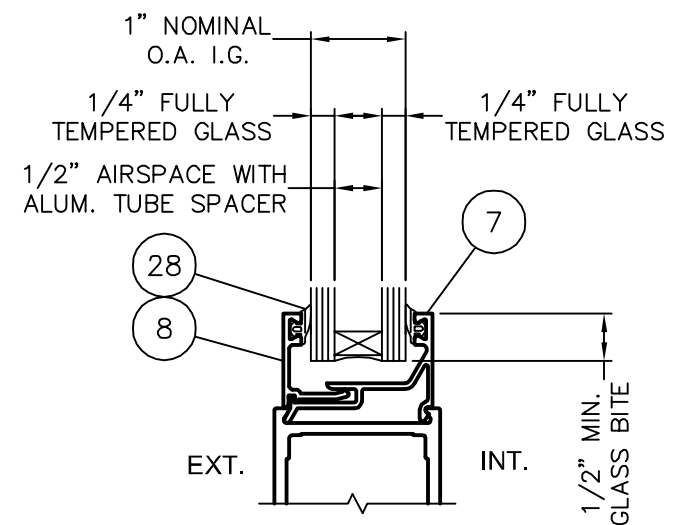
TYPICAL JAMB ANCHORAGE



TYPICAL THRESHOLD ANCHORAGE



FRAME ASSEMBLY



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	CONCRETE (3000 PSI MIN)	1/4" ITW 410 STAINLESS TAPCON	1 3/4"	2 1/2"
D	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)	#12 GRADE 5 WOOD SCREW	1 3/8"	1"
G	16 GAUGE (0.060") MIN. STEEL STUD 33 KSI YIELD MIN.	#12-24 ITW TEKS SELF-DRILLING SCREW	SEE NOTE	1/2"
H	1/8" ALUM. 6063-T5 MIN. OR 1/8" STEEL 33 KSI MIN.	#12 GRADE 5 SELF-TAPPING / DRILLING SCREW	SEE NOTE	1/2"

NOTE: ANCHORS THROUGH METAL SHALL BE OF SUFFICIENT LENGTH TO PROVIDE THREAD ENGAGEMENT THROUGH THE FULL METAL THICKNESS

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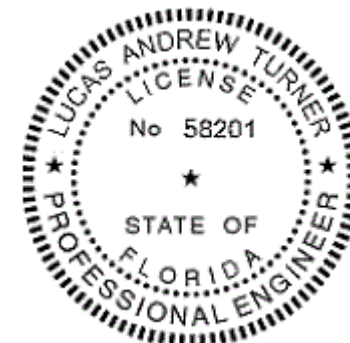
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REVISION: A

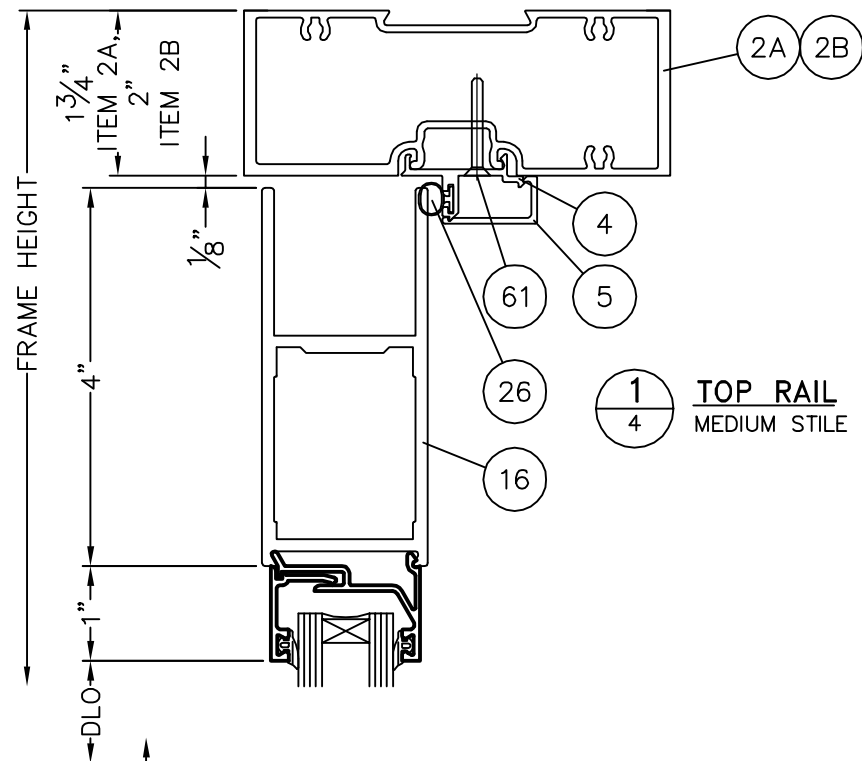
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INSTALLATION,
ASSEMBLY,
GLAZING DETAIL

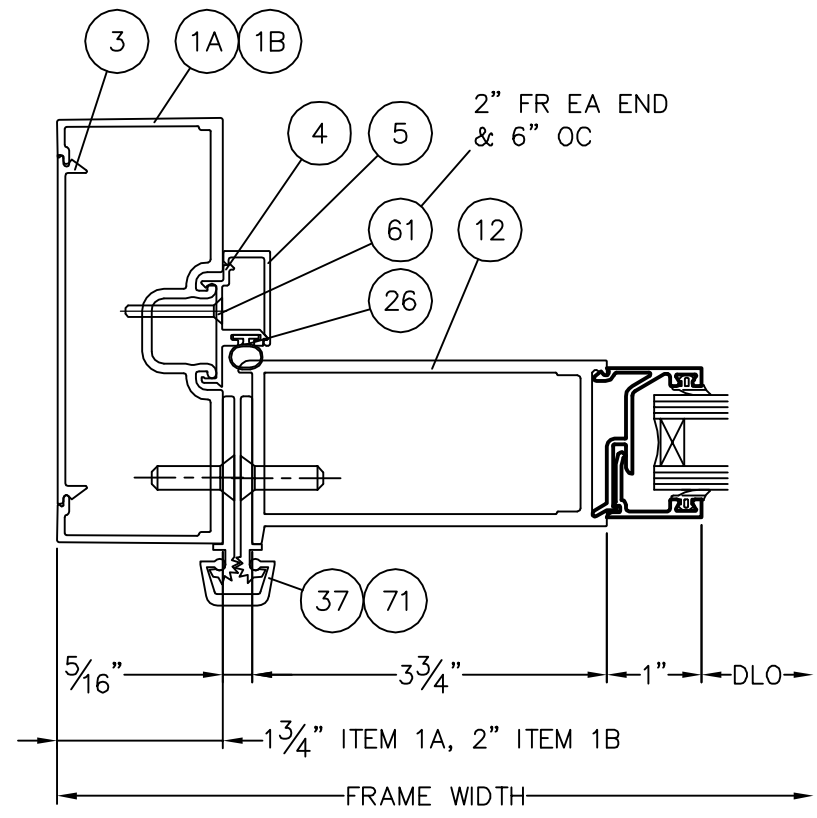
SHEET: 3 OF 6



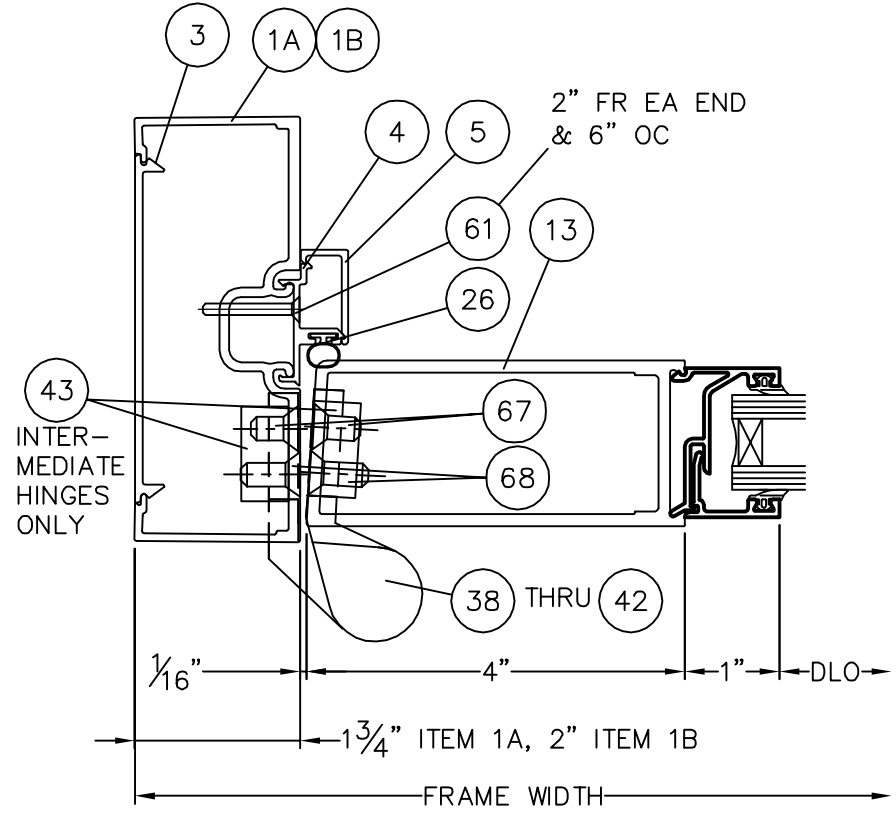
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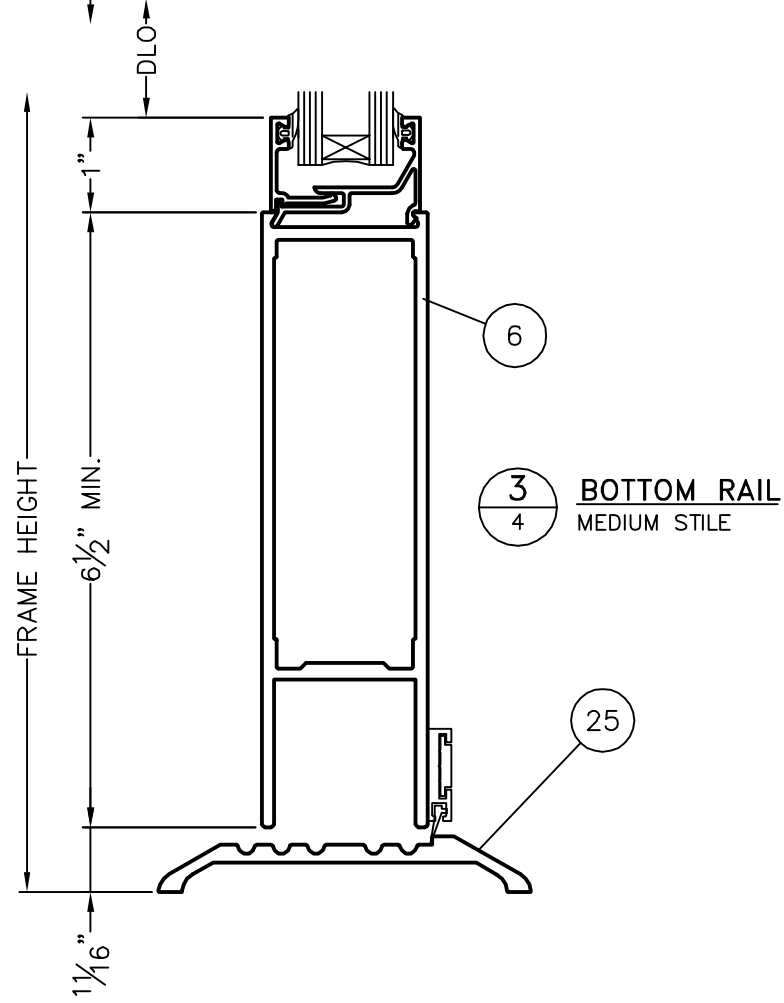
1
4 **TOP RAIL**
MEDIUM STILE



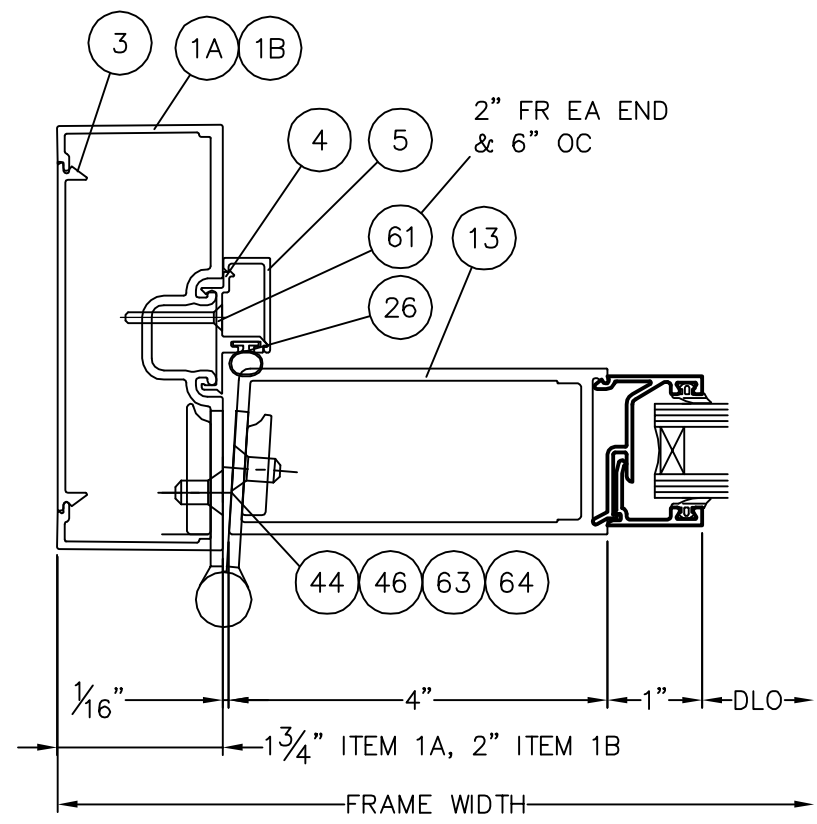
2A
4 **JAMB W/CONTINUOUS HINGE**
MEDIUM STILE



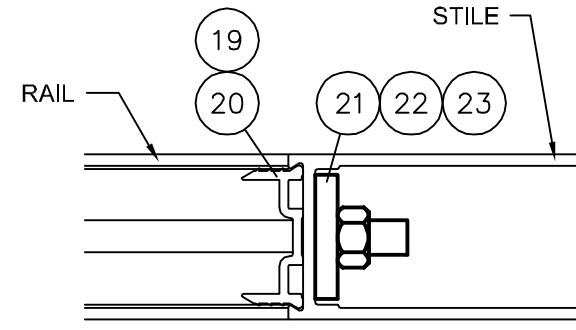
2B
4 **JAMB W/ OFFSET PIVOT HINGE**
MEDIUM STILE



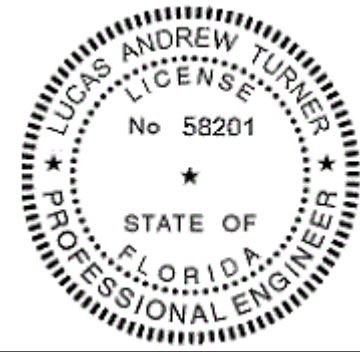
3
4 **BOTTOM RAIL**
MEDIUM STILE



2C
4 **JAMB W/BUTT HINGE**
MEDIUM STILE



RAIL AND STILE ASSEMBLY
TYPICAL TOP & BOTTOM



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TUBELITE
STANDARD STILE
ENTRANCE DOOR

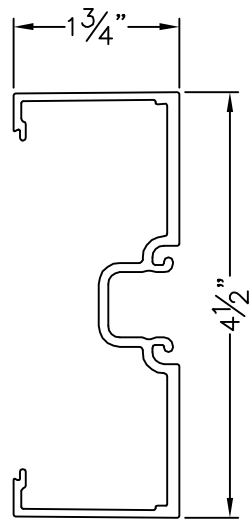
3066 WALKER RIDGE DRIVE N.W.
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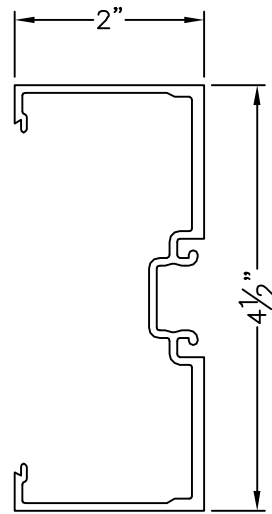
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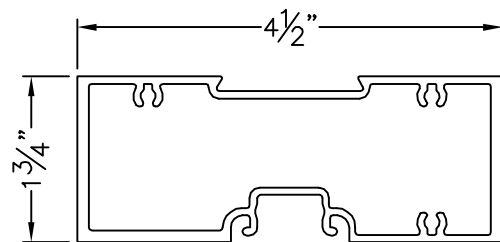
DATE:	02.24.14
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DRAWN:	
FINAL REVIEW:	
SCALE:	N.T.S.
REVISION:	A
SHEET NAME:	SECTION DETAILS
SHEET:	4 OF 6



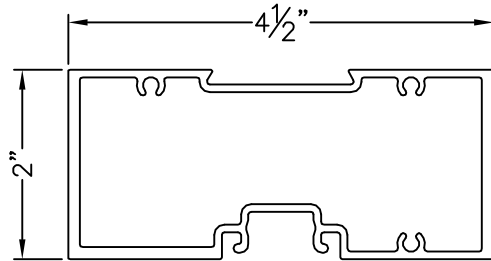
ITEM 1A - E4544
OPEN BACK
DOOR JAMB



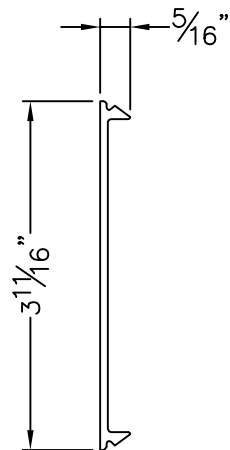
ITEM 1B - E14144
OPEN BACK
DOOR JAMB



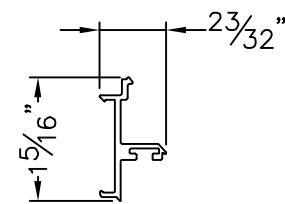
ITEM 2A - E45124
DOOR HEADER



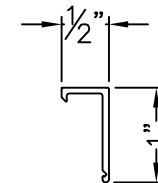
ITEM 2B - E14124
DOOR HEADER



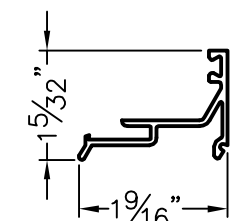
ITEM 3 - E4543
FLAT CLOSURE



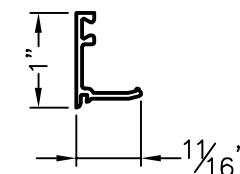
ITEM 4 - E6500
BASE~DOOR STOP



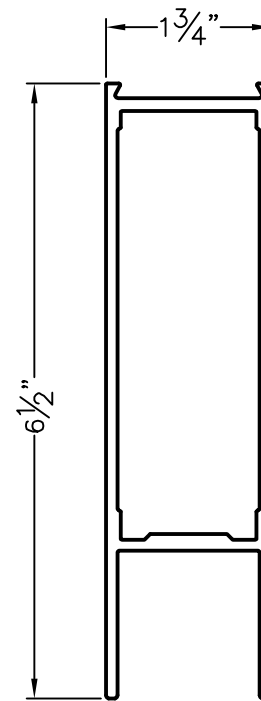
ITEM 5 - E6501
CAP~DOOR STOP



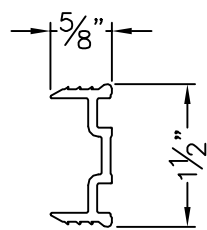
ITEM 7 - E0928
GLASS STOP



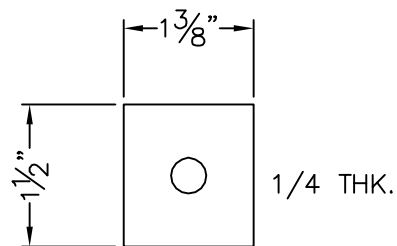
ITEM 8 - E0927
SNAP-IN
GLASS STOP



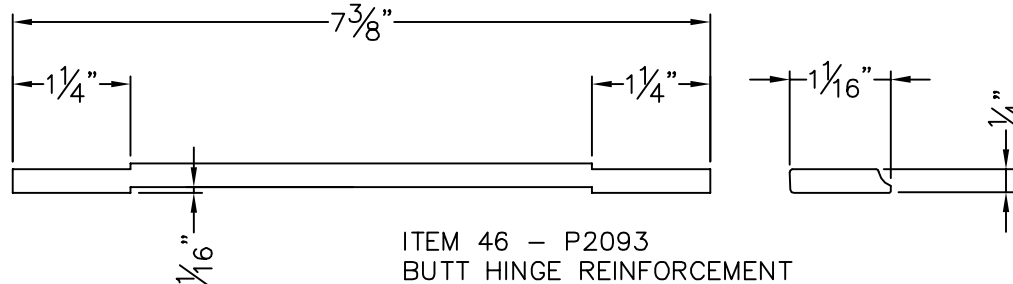
ITEM 6 - E20419
BOTTOM RAIL



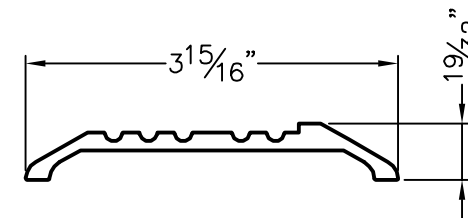
ITEM 19 - E0401 (P1648)
ITEM 20 - E0401
DOOR LUGS



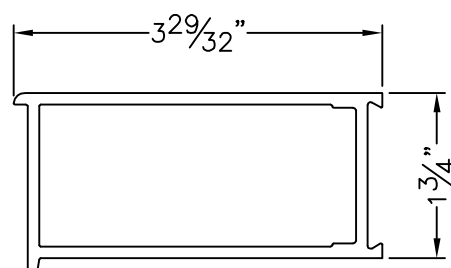
ITEM 22
DOOR ROD WASHER



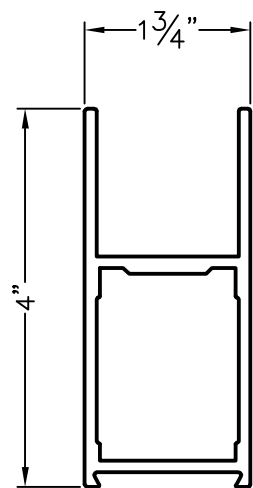
ITEM 46 - P2093
BUTT HINGE REINFORCEMENT



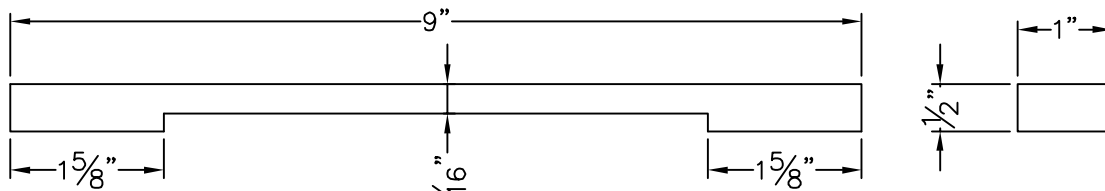
ITEM 25 - E2058
THRESHOLD



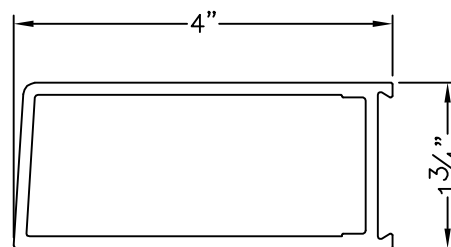
ITEM 12 - E0085
MEDIUM STILE ~ CONT. HINGE



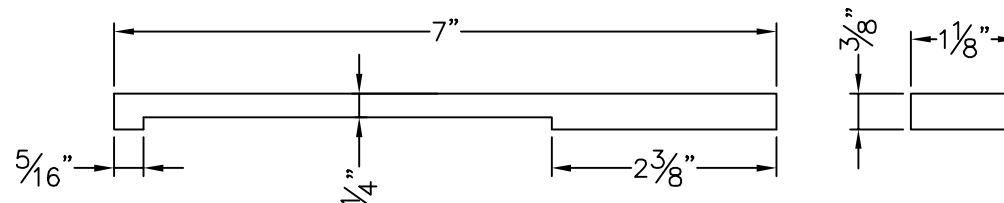
ITEM 16 - E0054
MEDIUM STILE ~
TOP RAIL



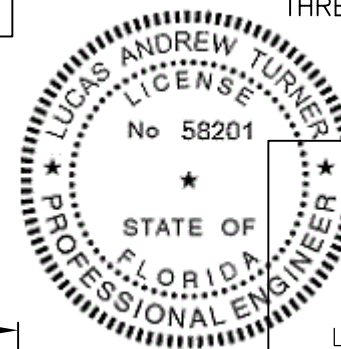
ITEM 43 - P0360
INTERMEDIATE PIVOT
REINFORCEMENT



ITEM 13 - E0086
MEDIUM STILE ~
BUTT & OFFSET PIVOT HINGE



ITEM 55 TOP PIVOT
REINFORCEMENT



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REVISION: A

SHEET NAME:

PROFILE DRAWINGS

SHEET: 5 OF 6

PARTS LIST		MATERIAL	
ITEM	PART NUMBER	DESCRIPTION	
1A	E4544	EXTRUSION ~ OPEN BACK DOOR JAMB	ALUMINUM-6063-T5
1B	E14144	EXTRUSION ~ OPEN BACK DOOR JAMB	ALUMINUM-6063-T5
2A	E45124	EXTRUSION ~ DOOR HEADER	ALUMINUM-6063-T5
2B	E14124	EXTRUSION ~ DOOR HEADER	ALUMINUM-6063-T5
3	E4543	EXTRUSION ~ FLAT CLOSURE	ALUMINUM-6063-T5
4	E6500	EXTRUSION ~ BASE DOOR STOP	ALUMINUM-6063-T5
5	E6501	EXTRUSION ~ CAP DOOR STOP	ALUMINUM-6063-T5
6	E0419	EXTRUSION ~ BOTTOM RAIL	ALUMINUM-6063-T5
7	E0928	EXTRUSION ~ GLASS STOP	ALUMINUM-6063-T5
8	E0927	EXTRUSION ~ SNAP IN GLASS STOP	ALUMINUM-6063-T5
9			
10			
11			
12	E0085	EXTRUSION ~ MED. STILE CONTINUOUS HINGE (DOOR 4)	ALUMINUM-6063-T5
13	E0086	EXTRUSION ~ MED. STILE BUTT & OFFSET HINGE (DOOR 1-3)	ALUMINUM-6063-T5
14	E0087	EXTRUSION ~ MED. STILE ROUND FACE STILE (DOOR 1-4)	ALUMINUM-6063-T5
15	E1150	EXTRUSION ~ MED. STILE LOCK W/ASTRAGAL (DOOR 1-4)	ALUMINUM-6063-T5
16	E0054	EXTRUSION ~ MED. STILE TOP RAIL (DOOR 1-4)	ALUMINUM-6063-T5
17			
18			
19	P1648	DOOR LUG (E0401)	BOTTOM RAIL TO STILES ALUMINUM-6063-T5
20	E0401	DOOR LUG (E0401)	TOP RAIL TO STILES ALUMINUM-6063-T5
21	S071	3/8-16 HEX NUT W/LOCK WASHER	STILES RAIL TO P-PART FASTENER
22	NA	DOOR ROD WASHER	STILES RAIL TO ALUMINUM-6063-T5
23	NA	3/8-16 THREADED ROD	STILES RAIL TO P-PART FASTENER
24			
25	E2058	EXTRUSION ~ THRESHOLD	ALUMINUM-6063-T5
26	P6296-OR	BULB GASKET (EPG 5319)	P-PART-RUBBER
27	P938	PILE ~ WOOL PILE FOR ADJUSTABLE ASTRAGAL	P-PART-PLASTIC FABRIC
		SCHLEGE PILE WEATHERING #364-1006-5101	
28	P0017	GLAZING GASKET (TREMCO P/N 00218047E6Z)	P-PART-RUBBER
29	NA	GLAZING TAPE 1/8" x 3/8" (TREMCO SGT)	P-PART-FOAM
30	BY OTHERS	DOW 983 BLACK	SEALANT
31	NA	SETTING BLOCK	P-PART-RUBBER
35			
36			
37	P6563	SELECT 27HD CONTINUOUS HINGE	P-PART-HARDWARE
38	P695A	HINGE TOP FRAME OFFSET PIVOT RIXON 180	P-PART-HARDWARE
39	P695B	HINGE TOP DOOR OFFSET PIVOT RIXON 180	P-PART-HARDWARE
40	P695C	HINGE BOTTOM DOOR OFFSET PIVOT RIXON 147	P-PART-HARDWARE
41	P695	HINGE FLOOR OFFSET PIVOT RIXON 147	P-PART-HARDWARE
42	P751	HINGE INTERMEDIATE OFFSET PIVOT RIXON M19L	P-PART-HARDWARE
43	P0360	INTERMEDIATE PIVOT REINFORCEMENT	P-PART-HARDWARE
44	P1558 NRP	BUTT HINGE HAGAR BB-1199	P-PART-HARDWARE
45			
46	P2093	BUTT HINGE REINFORCEMENT	P-PART-HARDWARE
47	P518	DOOR LABEL, GREEN BRUSHED SILVER	P-PART-LABEL
48	P1539	SPRING STEEL ASTRAGAL, ADJUSTABLE DOOR	P-PART-HARDWARE
49	P1553	WASHER, SCREW AND SHOULDER SCREW	P-PART-HARDWARE
50			
51			
52			
53			
54			

ITEM	PART NUMBER	DESCRIPTION	
55	NA	EXTRUSION ~ TOP HINGE REINFORCEMENT	ALUMINUM-6063-T5
56			
57			
58			
59			
60	BY OTHERS	SCREW ~ INSTALL - SEE TABLE 1, SHEET 2 (FR. SUBSTRATE)	P-PART-FASTENER
61	S6504	SCREW ~ #6-32 x 1" FT HD PHIL TYPE F (GLASS STOP/DR STOP))	P-PART-FASTENER
62	S055	SCREW ~ #13 x 3" FLAT HD PHIL (THRESHOLD TO WOOD)	P-PART-FASTENER
63	S161	SCREW ~ #10-24 x 1/2 FLAT HD PHIL (DOOR HINGE/FLUSH BOLTS)	P-PART-FASTENER
64	S070	SCREW ~ #12-24 x 1/2 FLAT HD PHIL (FRAME HINGE)	P-PART-FASTENER
65			
66	S202	SCREW ~ #10 x 3/4" SELF TAPPING HPH (FRAME)	P-PART-FASTENER
67		SCREW ~ #1/4-20 x 1/2" FLAT HD PHIL (OFFSET HINGE)	P-PART-FASTENER
68		SCREW ~ #1/4-20 x 5/8" FLAT HD PHIL (OFFSET REINFORCEMENT)	P-PART-FASTENER
69		SCREW ~ #1/4-20 x 1 1/2" FLAT HD PHIL SMS	P-PART-FASTENER
70			
71		SCREW ~ #12-24 x 7/8 SELF TAPPING FH PHIL (CONTINUOUS HINGE)	P-PART-FASTENER
72			
73			
74	P6527-C2	P6527-C2 PULL (ROCKWOOD)	P-PART-FASTENER
75			
76	P1564-C2	P1564-C2 PULL (ROCKWOOD)	P-PART-FASTENER
77	NA	LOCK CVR-FALCON HSEC 1690	P-PART-FASTENER
78	NA	LOCK SARGENT MD8600	P-PART-FASTENER
79			
80			
81	NA	2086-47 X 96 CVR PANIC FIN-628 LHR (JACKSON)	P-PART-FASTENER
82			
83	NA	G86 (ADAMS RITE)	P-PART-FASTENER
84			
85			
86			
87			
88	NA	30-1084 TOP & BOTTOM STRIKE (JACKSON)	P-PART-FASTENER
89	NA	30-821J CYLINDER KIT FIN -628 RHR (JACKSON)	P-PART-FASTENER
90			
91			
92			
93	P1010-OR	P1010-OR TWO POINT THOLD BOLT (ADAMS RITE)	P-PART-FASTENER
94			
96			
97			
98	NA	8659 CYLINDER ESCUCHEON (ADAMS RITE)	P-PART-FASTENER
99			
100			

TUBELITE
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REVISION HISTORY:

REV	DATE	DESCRIPTION	ORIGINAL RELEASE	ADDED HARDWARE
0	2.24.14		LT	
A	10.18.17		LT	

DATE: 02.24.14

DRAWING NUMBER:
FPA-STND-NI

DRAWN:

FINAL REVIEW:

SCALE: N.T.S.

REVISION: A

SHEET NAME:

BILL OF MATERIALS

SHEET: 6 OF 6



LT
 10/18/2017
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