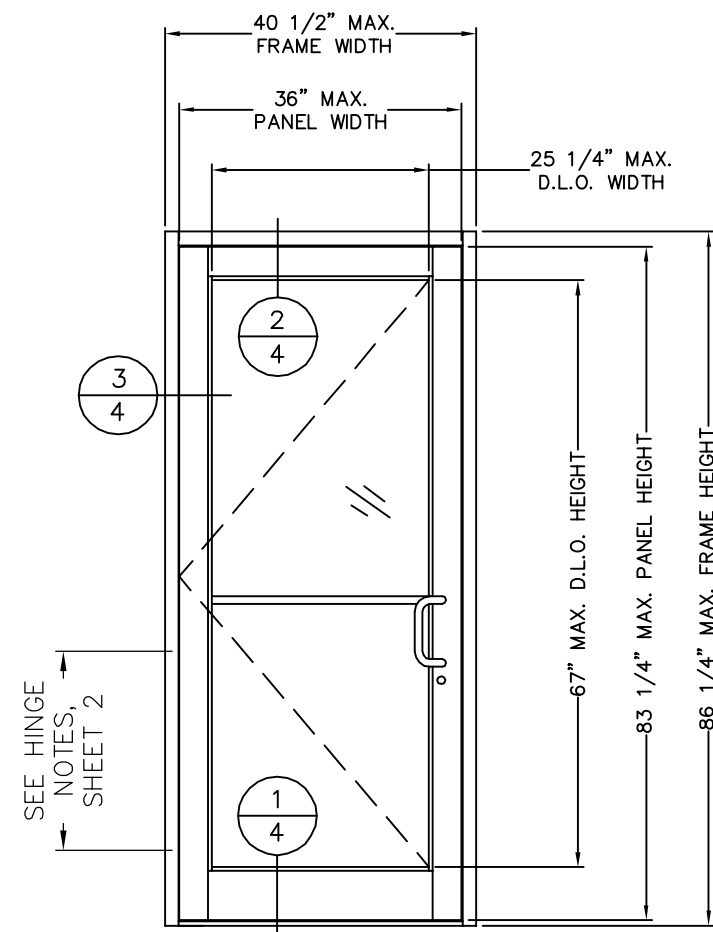


GENERAL NOTES:

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) 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, HINGE NOTES, ANCHOR LOC. ELEVATION |
| 3 | INSTALLATION, GLAZING |
| 4 | SECTION DETAILS |
| 5 | PROFILE DRAWINGS |
| 6 | BILL OF MATERIALS |



ELEVATION A
CYLINDER LOCK

| ELEVATION A | | | |
|--------------------------------------------|-----------------------------------|------------------------------|---------------|
| QUALIFIED LOCKING HARDWARE | BOTTOM OF DOOR TO LOCK CENTERLINE | DESIGN PRESSURE RATING (PSF) | IMPACT RATING |
| ADAMS-RITE 1050A CYLINDER LOCK WITH HANDLE | 40" | +/-50.13 | NONE |

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MEDIUM AND WIDE STILE
THERMALLY BROKEN
ALUMINUM OUTSWING
ENTRANCE DOOR

TUBELITE
THERMAL ENTRANCE DOOR

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WALKER, MICHIGAN 49544
PH: 800.566.2227
FX: 616.301.0089
WEB SITE: WWW.TUBELITEINC.COM

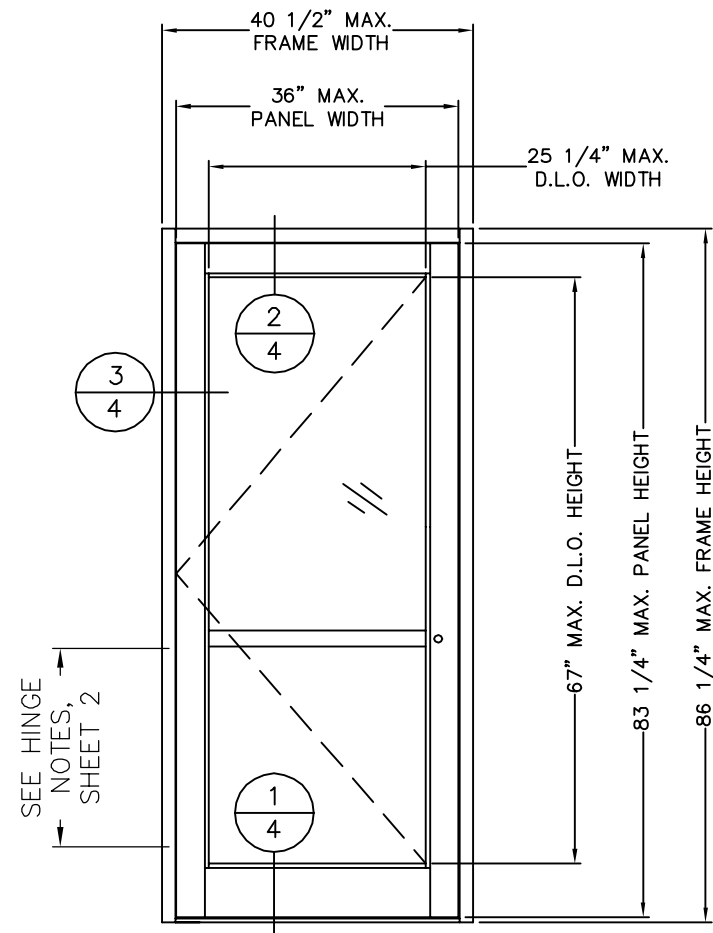
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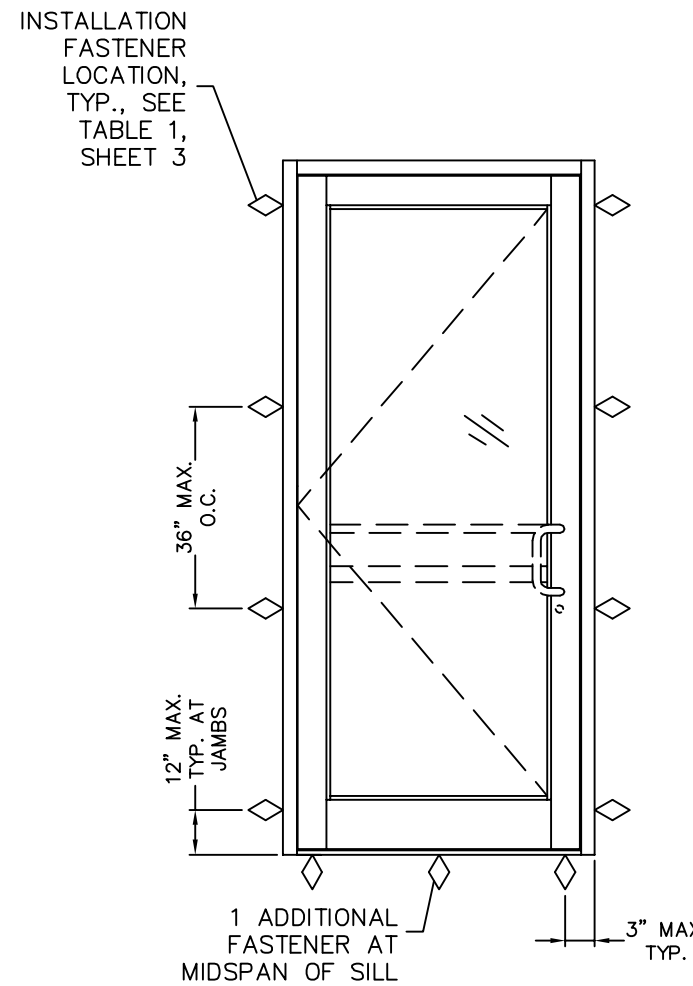
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| DRAWING NUMBER: | FPA-THRM-NI |
| DRAWN: | |
| FINAL REVIEW: | |
| SCALE: | N.T.S. |
| REVISION: | 0 |
| SHEET NAME: | GEN. NOTES, ELEVATION A |
| SHEET: | 1 OF 6 |



ELEVATION B

CONCEALED VERTICAL ROD / CABLE EXIT DEVICES



ANCHOR LOCATION ELEVATION

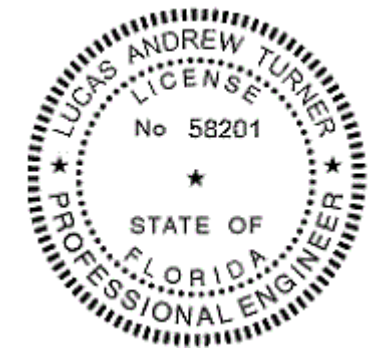
APPROVED HINGE OPTIONS FOR ELEVATIONS A AND B:

1) MORTISED HD HAGER BUTT HINGE BB-1199 WITH REINFORCEMENTS (PART #P2092) 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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DATE: 10.18.17
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 DRAWN:
 FINAL REVIEW:
 SCALE: N.T.S.
 REVISION: 0
 SHEET NAME: ELEVATIONS B AND C, HINGE NOTES
 SHEET: 2 OF 6

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DATE: 10.18.17

DRAWING NUMBER: FPA-THRM-NI

DRAWN: LT

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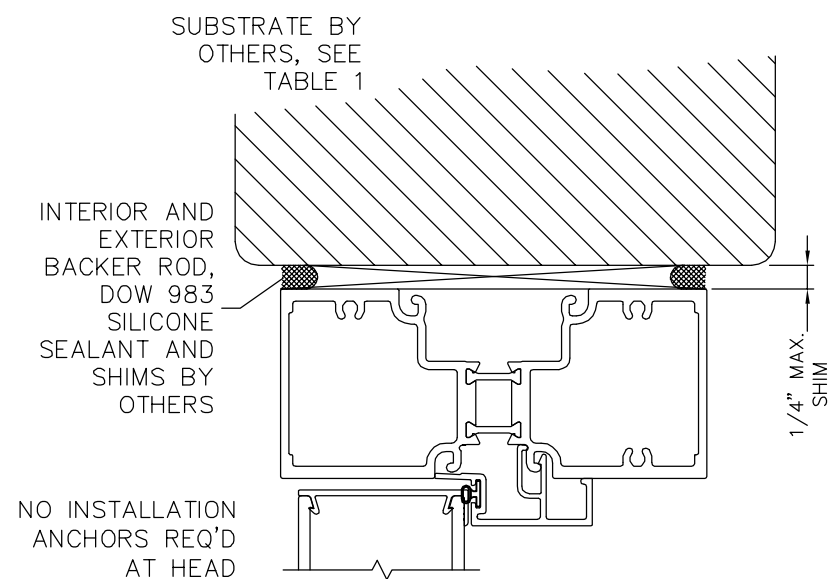
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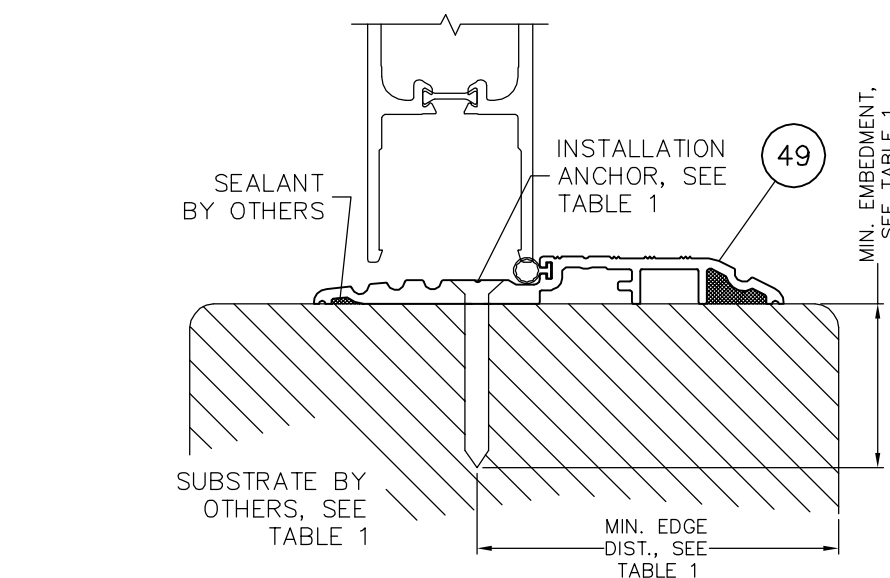
SHEET NAME:

INSTALLATION,
GLAZING DETAIL

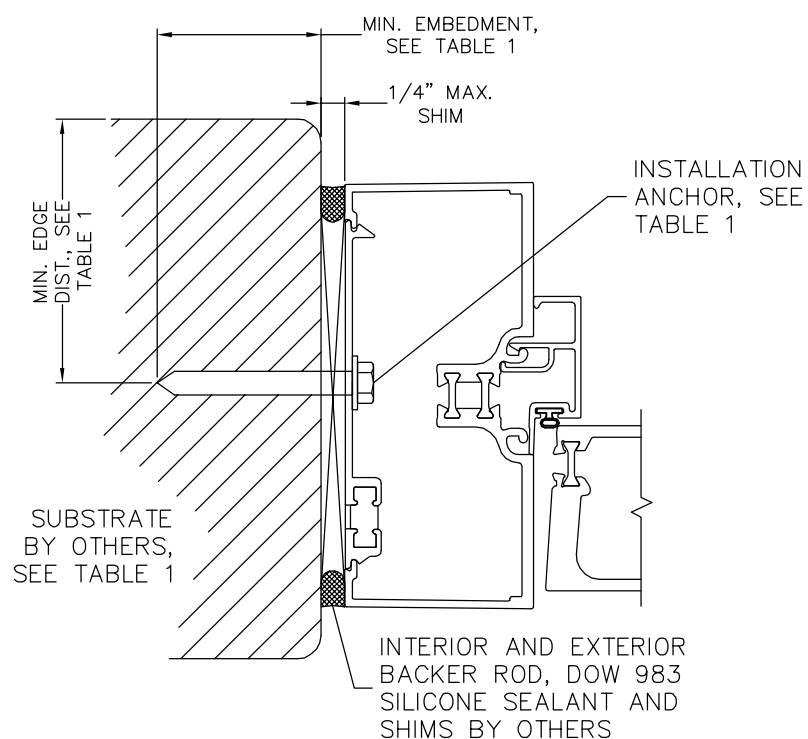
SHEET: 3 OF 6



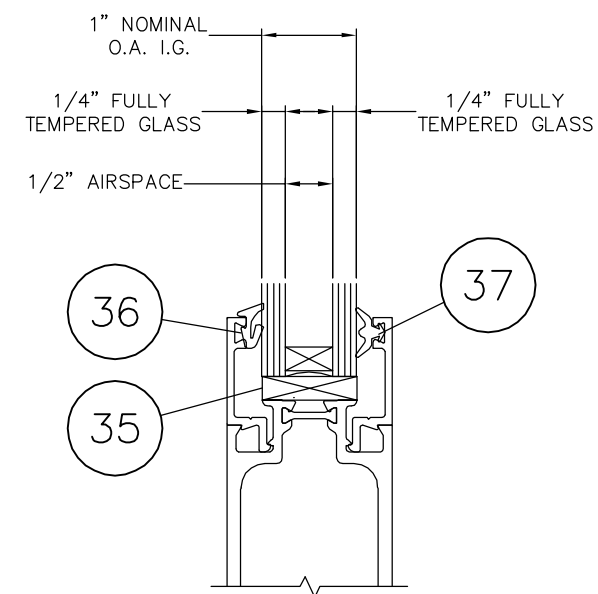
TYPICAL HEAD INSTALLATION



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 | 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" |

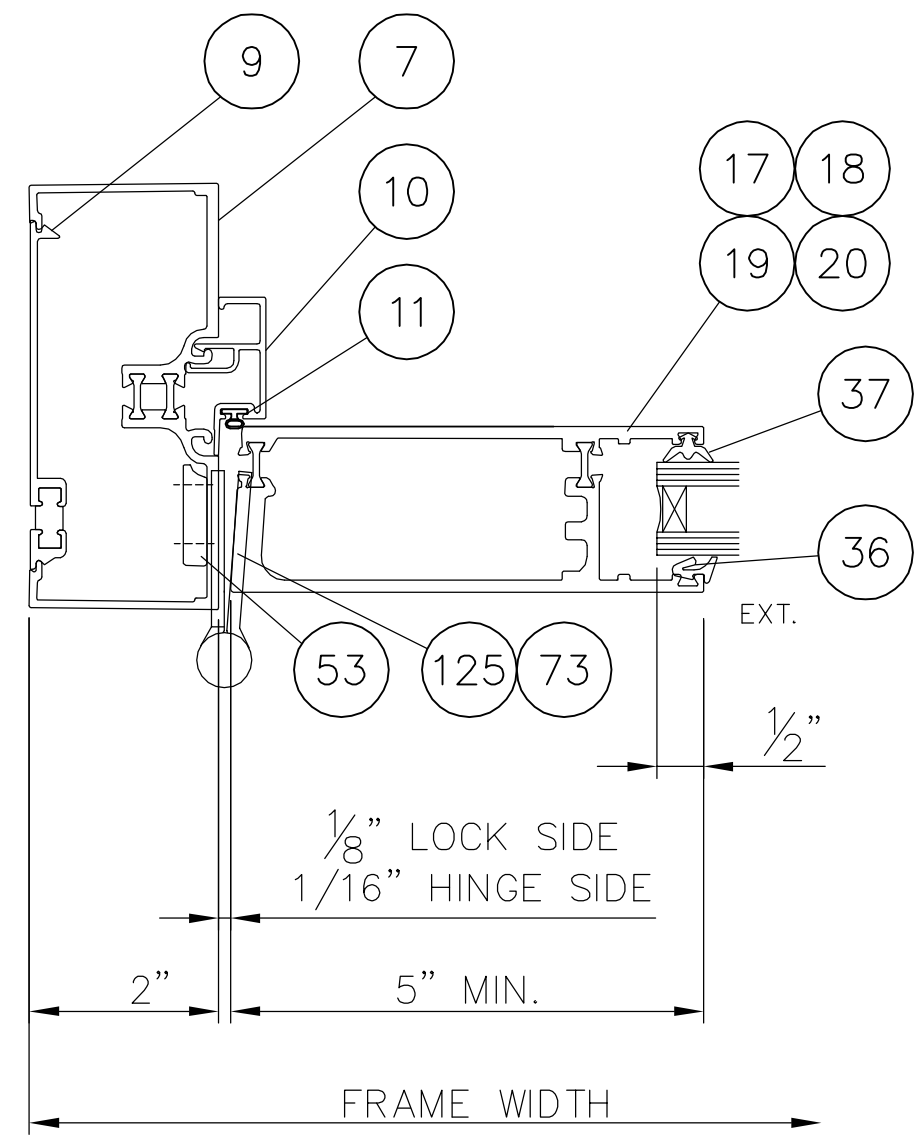
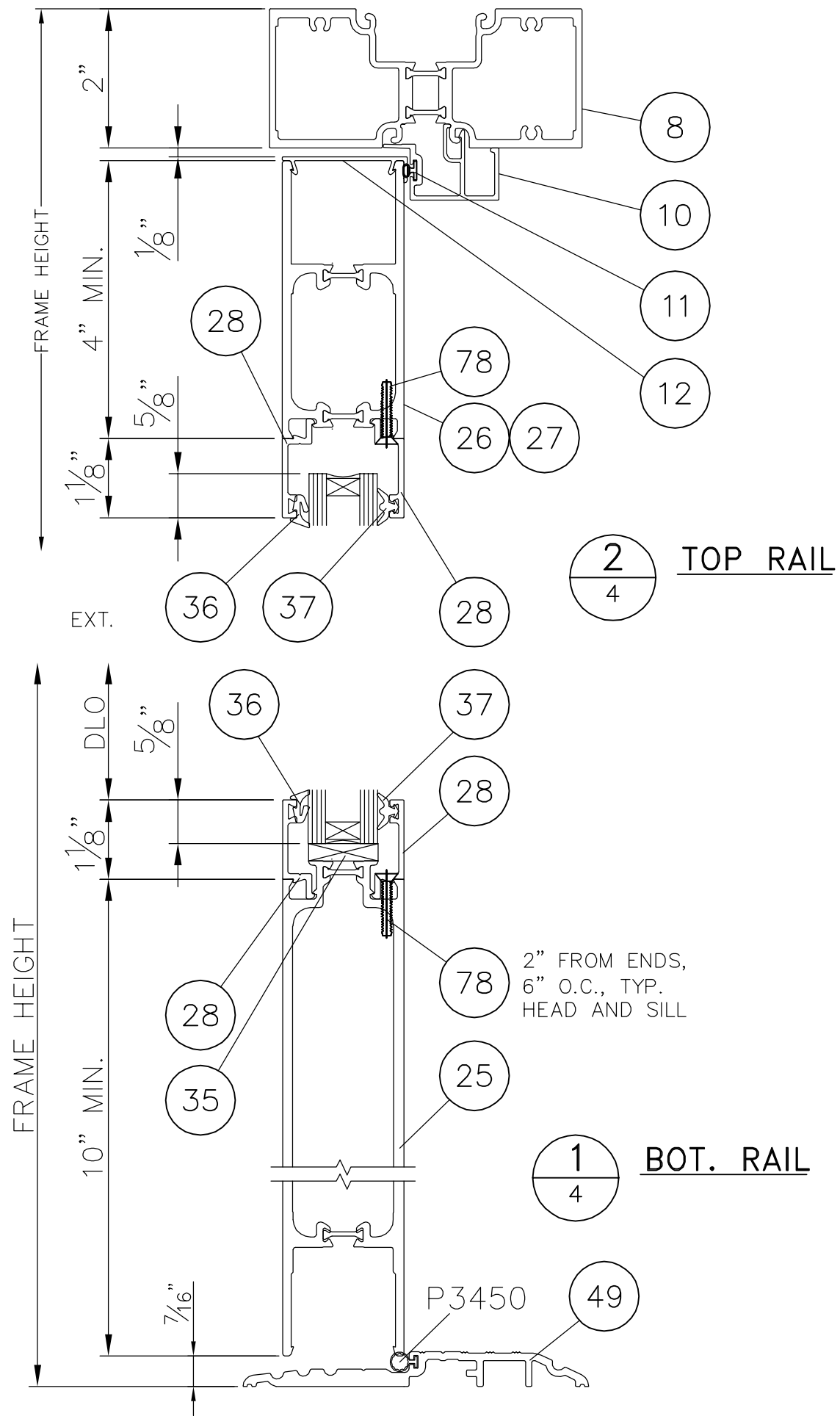
ANCHORAGE NOTES:

- 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



LT

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 SHEET NAME: SECTION DETAILS
 SHEET: 4 OF 6

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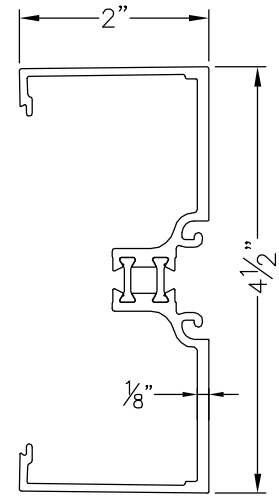
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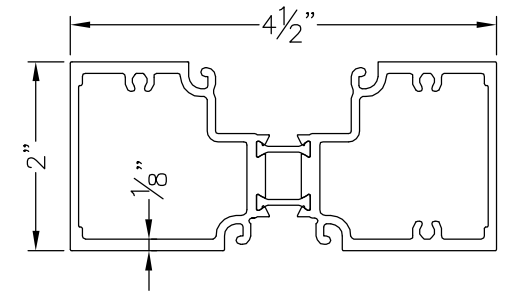
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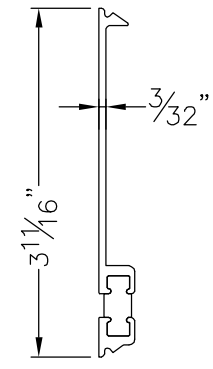
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| SHEET NAME: | PROFILE DRAWINGS |
| SHEET: | 5 OF 6 |



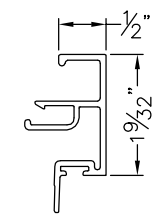
ITEM 7 - A624040
FRAME JAMB



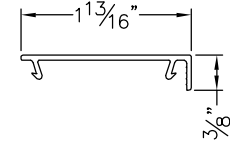
ITEM 8 - A624142
FRAME HEAD



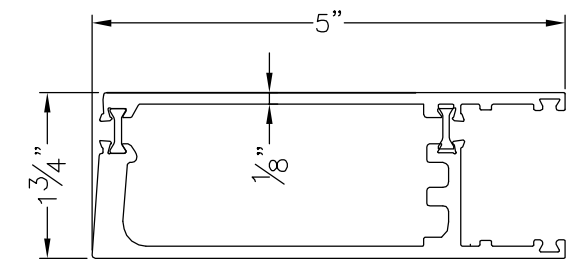
ITEM 9
T6251
CLOSURE



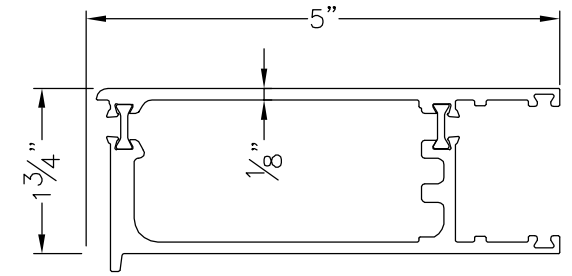
ITEM 10
E6224 DOOR
STOP



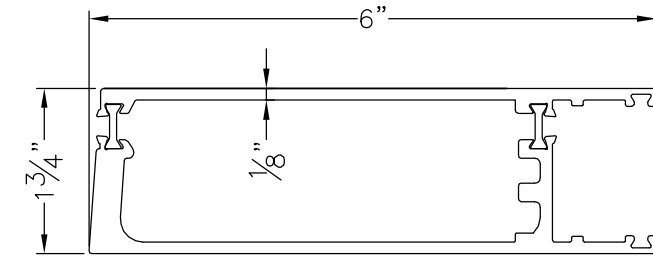
ITEM 12
P6240
WEATHER CAP



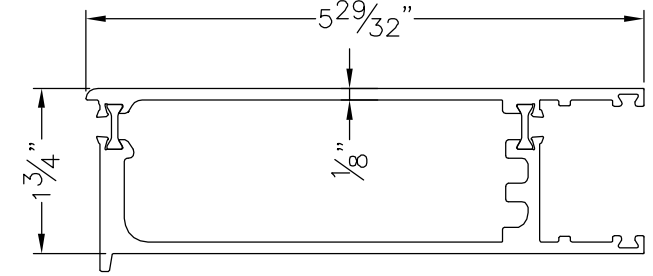
ITEM 17 - A627879
ASSEMBLY
MED STILE - HINGE



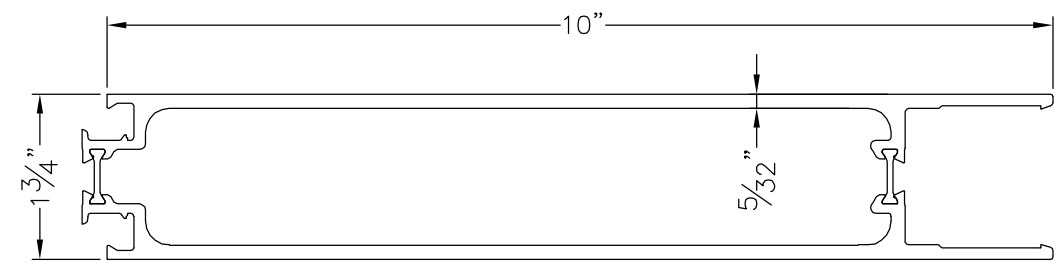
ITEM 18 - A627071
ASSEMBLY
MED STILE - CONTINUOUS HINGE



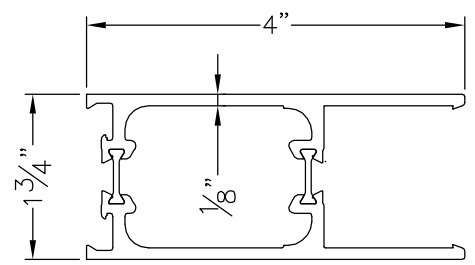
ITEM 19 - A627677
ASSEMBLY
WIDE STILE - HINGE



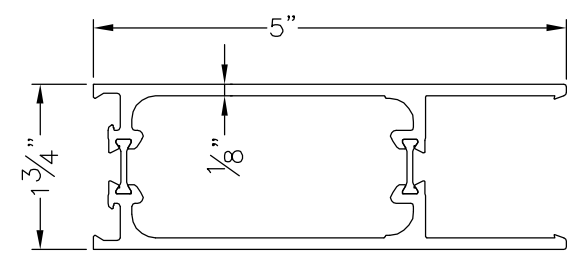
ITEM 20 - A627273
ASSEMBLY
WIDE STILE - CONTINUOUS HINGE



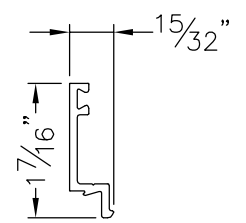
ITEM 25 - A621010
ASSEMBLY
BOTTOM RAIL



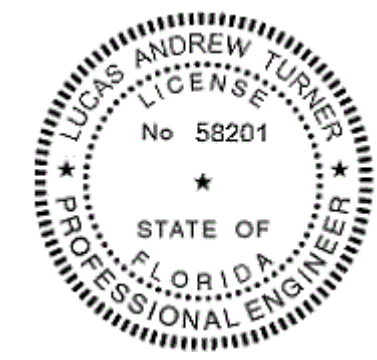
ITEM 26 - A621414
ASSEMBLY
MED STILE TOP RAIL



ITEM 27 - A621515
ASSEMBLY
WIDE STILE TOP RAIL



ITEM 28 - E6513
GLAZING STOP



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| THERMAL SERIES MEDIUM STILE DOUBLE DOOR W/1" SUB-FRAME - PARTS LIST | | | MATERIAL |
|---------------------------------------------------------------------|-------------|---------------------------------------------------------|-----------------------|
| ITEM | PART NUMBER | DESCRIPTION | |
| 7 | A624040 | EXTRUSION ASSEMBLY, FRAME JAMB | ALUMINUM - 6063-T5 |
| 8 | A624142 | EXTRUSION ASSEMBLY, FRAME HEAD | ALUMINUM - 6063-T5 |
| 9 | T6251 | EXTRUSION, FLAT CLOSURE | ALUMINUM - 6063-T5 |
| 10 | E6224 | EXTRUSION, DOOR STOP | ALUMINUM - 6063-T5 |
| 11 | P6296 | DOOR STOP TO PANEL GASKET | P-PART - RUBBER |
| 12 | P6240 | WEATHER CAP | P-PART - RIGID PVC |
| 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 |
| 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 |
| 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 | P2092 | HINGE, BUTT, REINFORCEMENT (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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 10/18/2017
 LUCAS A. TURNER, P.E.
 FL PE # 58201
 TURNER ENGINEERING &
 CONSULTING, INC.
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TUBELITE
THERMAL ENTRANCE DOOR

TUBELITE
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 WALKER, MICHIGAN 49544
 PH: 800.566.2227
 FX: 616.301.0005
 WEB SITE: WWW.TUBELITEINC.COM
DEPENDABLE
LEADERS IN ECO-EFFICIENT STOREFRONT
CURTAINWALL AND ENTRANCE SYSTEMS

| REVISION HISTORY: | |
|-------------------|------------------|
| REV | DESCRIPTION |
| 0 | ORIGINAL RELEASE |
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DATE: 10.18.17
 DRAWING NUMBER: FPA-THRM-NI
 DRAWN:
 FINAL REVIEW:
 SCALE: N.T.S.
 REVISION: 0
 SHEET NAME: BILL OF MATERIALS
 SHEET: 6 OF 6