

1. THE PRODUCT SHOWN HEREIN CONSTRUCTED FROM LUXVIEW THERMALLY BROKEN ALUMINUM FRAMES HAS BEEN TESTED TO TAS201/202/203-94, AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 8TH EDITION (2023), INCLUDING THE HIGH VELOCITY HURRICANE ZONE.
2. THIS PRODUCT IS LARGE AND SMALL MISSILE IMPACT RESISTANT AND DOES NOT REQUIRE THE USE OF IMPACT PROTECTIVE DEVICES (SHUTTERS) IN WINDBORNE DEBRIS REGIONS.
3. THE DESIGN PRESSURES INDICATED IN THIS DRAWING ARE AS LIMITED BY ASTM E-1300 GLASS TABLES, AND TESTED WATER, STRUCTURAL, AND CYCLIC PRESSURES. NOTE THAT WATER TESTING WAS LIMITED TO 5.5 PSF, WITH CORRESPONDING DESIGN PRESSURE RATING OF 40 PSF FOR FULLY WATER-RATED DOOR. THE DOOR MAY BE USED TO FULL +/-70 PSF RATING IN AREAS WITH MIN. 1 OVERHANG RATIO IN ACCORDANCE WITH FBC SECT. 1709.5.1 EXCEPTION 2, OR IN JURISDICTIONS WHICH ACCEPT REDUCED WATER TESTING REQUIREMENTS.
4. THIS DOCUMENT ADDRESSES PRODUCT ANCHORAGE TO ACHIEVE THE INDICATED DESIGN PRESSURES AT THE INDICATED SIZES, IN THE CONFIGURATION SHOWN IN THE ELEVATIONS. INSTALL PRODUCTS WITH MAXIMUM SHIM GAP, MINIMUM EDGE DISTANCE AND EMBEDMENT, AND WITH FASTENER TYPE AS SHOWN AS INDICATED IN TABLE 1.
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. THE OPENING SUBSTRATE MATERIALS (FRAMING, MASONRY, BUCKS) AND ATTACHMENT OF BUCKS TO THE SUBSTRATE ARE BY OTHERS AND SHALL BE VERIFIED BY THE ARCHITECT OR ENGINEER OF RECORD OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ). BUCKING, OPENINGS, & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED BY OTHERS IN ACCORDANCE WITH THE FBC TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE. WITH MASONRY OPENINGS, WOOD BUCKS ARE OPTIONAL.
7. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE COATED OR OTHERWISE PROTECTED TO PREVENT GALVANIC REACTIONS. WOOD BUCKS, IF USED SHALL BE PRESSURE TREATED, WITH EITHER A TREATMENT OR COATING COMPATIBLE WITH THIS PRODUCT.
8. ALL ANCHORS USED SHALL BE OF A MATERIAL OR HAVE A COATING COMPATIBLE WITH THE PRESSURE TREATED WOOD BUCKS AND ALL OTHER WINDOW MATERIALS.
9. 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.
10. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS AND ARE NOT ADDRESSED BY THIS DOCUMENT.
11. FOR ADDITIONAL REQUIREMENTS SEE GENERAL ANCHOR NOTES, SHEET 2.

(SEE NOTE 3,
THIS SHEET)

MAX FRAME = 11'-0 $\frac{3}{4}$ "

EQUALLY SPACE ANCHORS

MAX SIDELITE FRAME = 3'-4"

12" TYP

8" TYP

4" TYP

ANCHOR LOCATION 6" MAX FROM CORNERS, TYP ALL SIDES

EQL SP

G

MAX DLO = 3'-0 $\frac{3}{16}$ "

A,C

MAX DLO = 10'-8 $\frac{15}{16}$ "

MAX DLO = 10'-2 $\frac{3}{8}$ "

MAX DLO = 4'-0 $\frac{1}{16}$ "

MAX FRAME = 5'

EQL SP

1'-5 $\frac{5}{16}$ " MAX., TYP.

E

4" TYP

MAX SIDELITE FRAME = 3'-4"

MAX PIVOT = 1'-0 $\frac{1}{4}$ "

EQL SP

G

MAX DLO = 3'-0 $\frac{3}{16}$ "

B,D

DLO = 10'-8 $\frac{15}{16}$ "

G

1'-5 $\frac{3}{8}$ " MAX., TYP.

F

G

CIRCLED LOCATIONS NOT REQUIRED FOR ANCHOR IDS A OR E. REQUIRED FOR ALL OTHER ANCHOR TYPES - SEE TABLE 1, SHEET 2

RH INSWING

RH INSWING + SL

SL + RH INSWING

SL + RH INSWING + SL

FIX 80°* + SL + RH INSWING + SL + FIX 80°*

LH INSWING

LH INSWING + SL

SL + LH INSWING

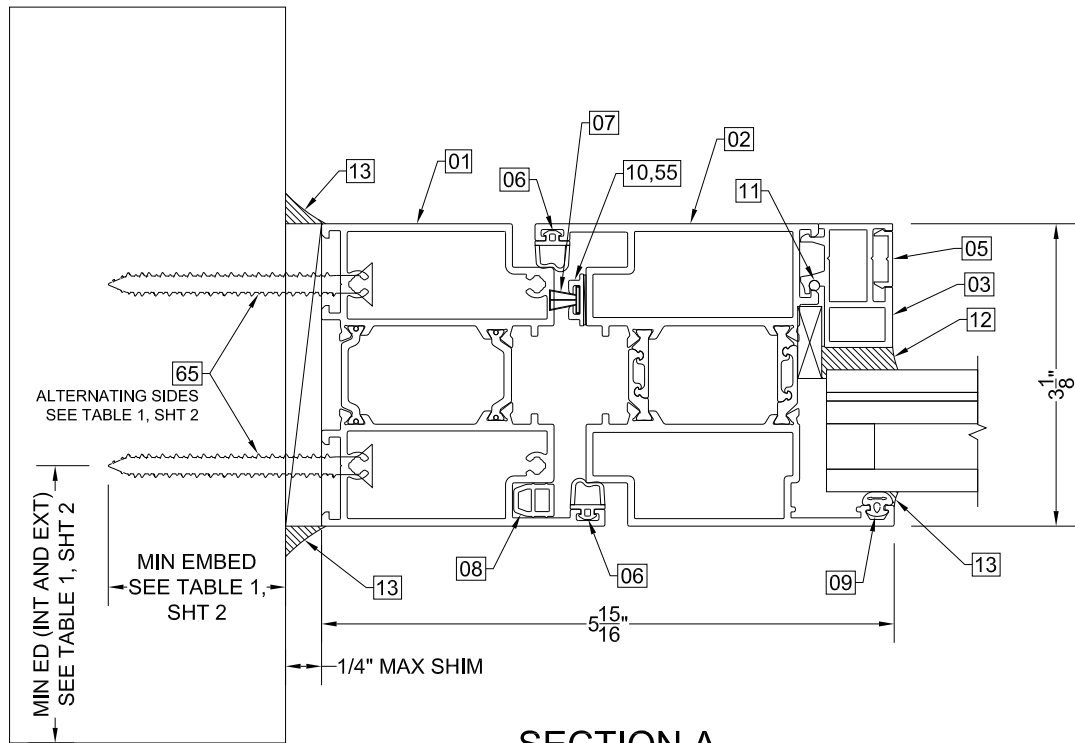
SL + LH INSWING + SL

FIX 80°* + SL + RH INSWING + SL + FIX 80°*

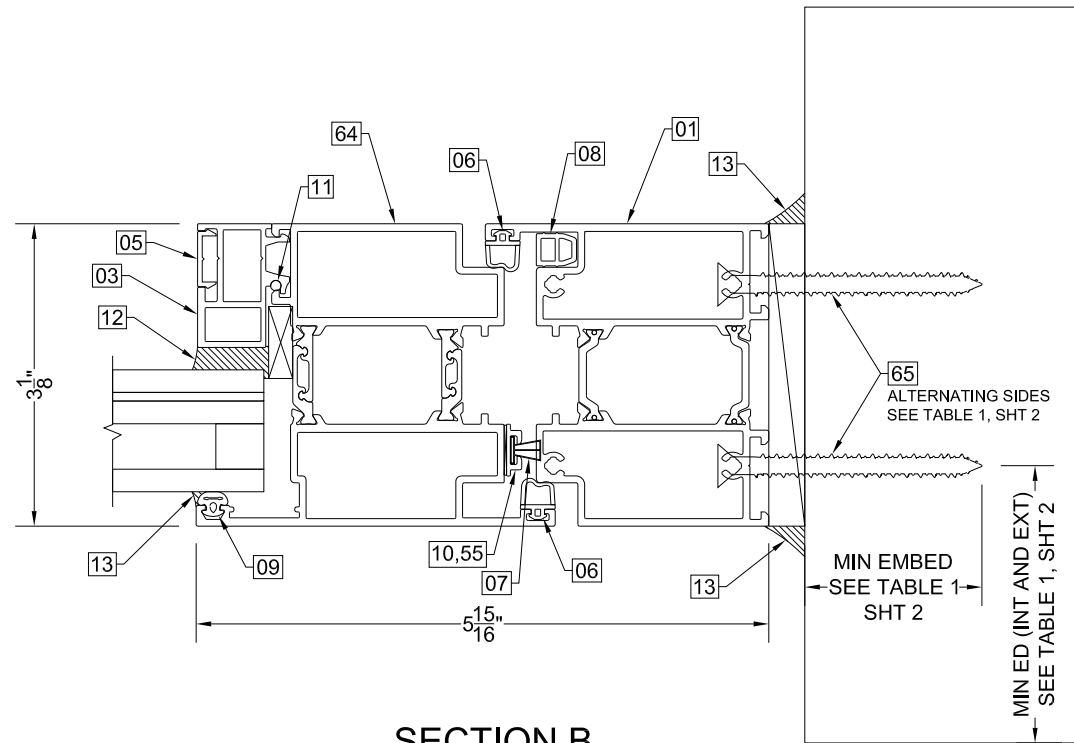
A circular professional engineer license seal for the State of Florida. The outer ring contains the text "PROFESSIONAL ENGINEER" in a bold, sans-serif font, with a five-pointed star on each side. Inside this ring, the name "LUCAS A. TURNER" is arched at the top, and "LICENSE" is arched below it. The center of the seal features the license number "No. 58201" in a large, bold font, with a stylized blue signature "L A T" and a star below it. At the bottom, the words "STATE OF FLORIDA" are written in a bold, sans-serif font.

Drawing Number: FPA-PIVOT80i		Revision: 01
Drawn By: JAB	Reviewed By: CAC	Date: 03MAY2024

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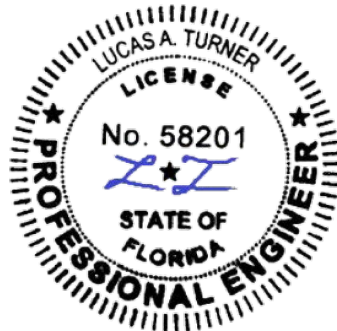
SECTION A
TYPICAL HANDLE-SIDE SECTION DETAIL



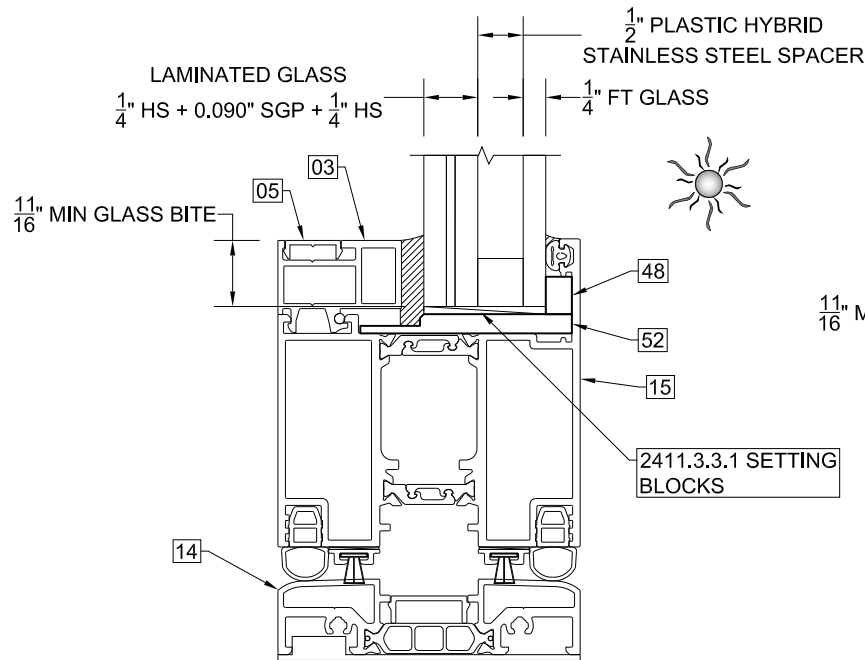
SECTION B
TYPICAL PIVOT-SIDE SECTION DETAIL



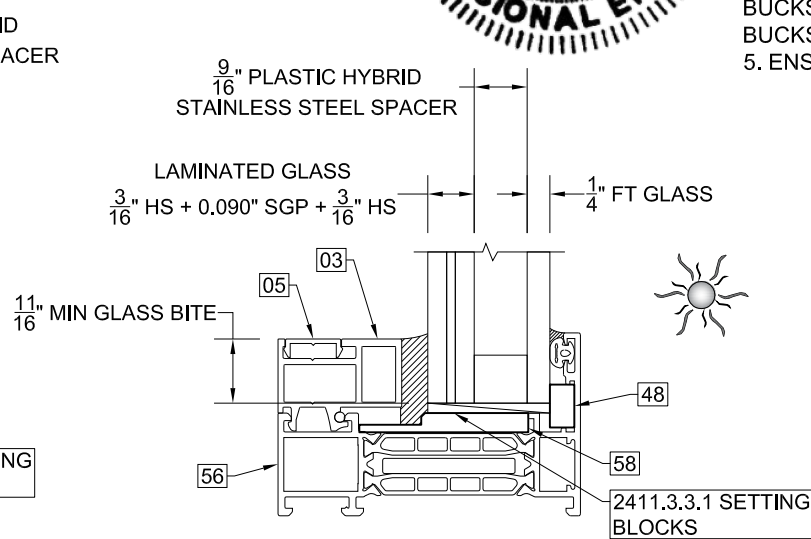
SYMBOL INDICATES
EXTERIOR



- GENERAL ANCHOR NOTES:
1. INSTALL SHIMS AT EACH ANCHOR LOCATION WHERE A GAP OF 1/16" OR GREATER EXISTS BETWEEN PRODUCT FRAME AND SUBSTRATE.
 2. SHIMS SHALL BE LOAD-BEARING (PLASTIC OR METALLIC) AND CAPABLE OF TRANSFERRING LOADS TO SUBSTRATE.
 3. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO, BY OTHERS. FOR ATTACHMENT TO METAL SUBSTRATES ENSURE FULL THREAD ENGAGEMENT
 4. FOR MASONRY WITH WOOD BUCKS LESS THAN 1-1/2" THICK, EMBEDMENT SHALL BE BEYOND WOOD BUCKS AND INTO MASONRY. WOOD BUCKS ARE OPTIONAL WITH MASONRY INSTALLATIONS WHERE MASONRY EDGE DISTANCE CONDITIONS ARE MET WITH NO BUCKS. WOOD BUCKS 1-1/2" THICK OR GREATER SHALL HAVE EMBEDMENT INTO THE WOOD BUCKS.
 5. ENSURE 4" MIN. ON-CENTER SPACING BETWEEN ANY TWO INSTALLATIONANCHORS.



TYPICAL PIVOT GLAZING DETAIL



TYPICAL SIDELITE GLAZING DETAIL

TABLE 1: INSTALLATION ANCHOR REQUIREMENTS TABLE				
NOTE: ALL ANCHORS WHERE ATTACHING THROUGH SCREW SPLINE LOCATIONS TO BE FLAT HEAD. ALL OTHER LOCATIONS TO BE PAN HEAD, HEX/WASHER HEAD, OR FLAT HEAD WITH SUPPLEMENTAL STAINLESS WASHER OF EQUIVALENT DIAMETER TO HEX/WASHER HEAD				
ANCHOR ID	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED.	MIN. EDGE DISTANCE
A	CONCRETE (3.05 KSI MIN)	1/4" DEWALT ULTRACON+	1-3/8"	2-1/2"
B	GROUT-FILLED CMU (ASTM C-90)	1/4" DEWALT ULTRACON+	1-3/4"	2-1/2"
C	HOLLOW CMU (ASTM C-90)	1/4" DEWALT ULTRACON+	1-1 1/4"	2-1/2"
D	2X MIN. SPRUCE-PINE-FIR WOOD (G=0.42 MIN.)	1/4" DEWALT ULTRACON+	1-3/4"	1"
E	16 GAUGE (0.060") MIN. STEEL STUD, 33KSI YIELD MIN., OR 1/8" ALUM. 6063-T5 MIN.	1/4"-14 HIL TI KWIK-FLEX OR TEKS SELF-DRILLING SCREW	FULL+ 3 THREADS	1/2"

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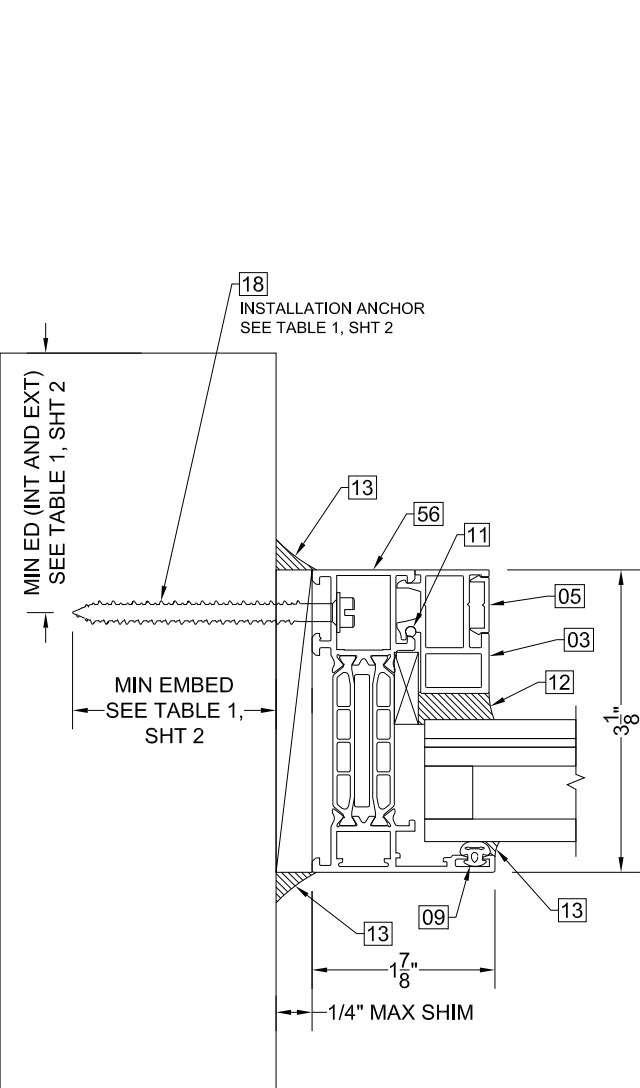
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Drawing Title:
LUXVIEW PIVOT 80i - INSWING PIVOT DOOR

Drawing Number: FPA-PIVOT80i
Revision: 01
Drawn By: JAB
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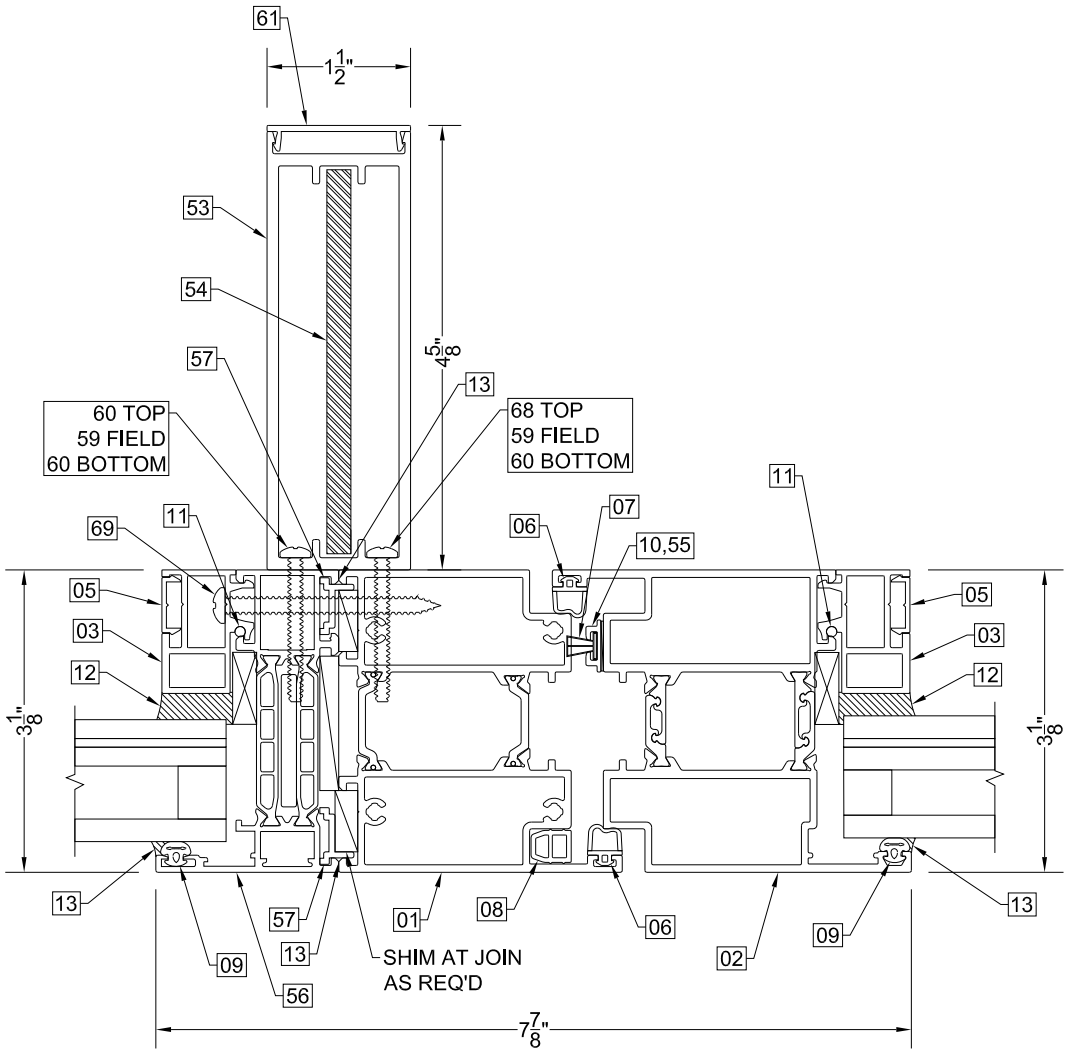
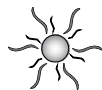
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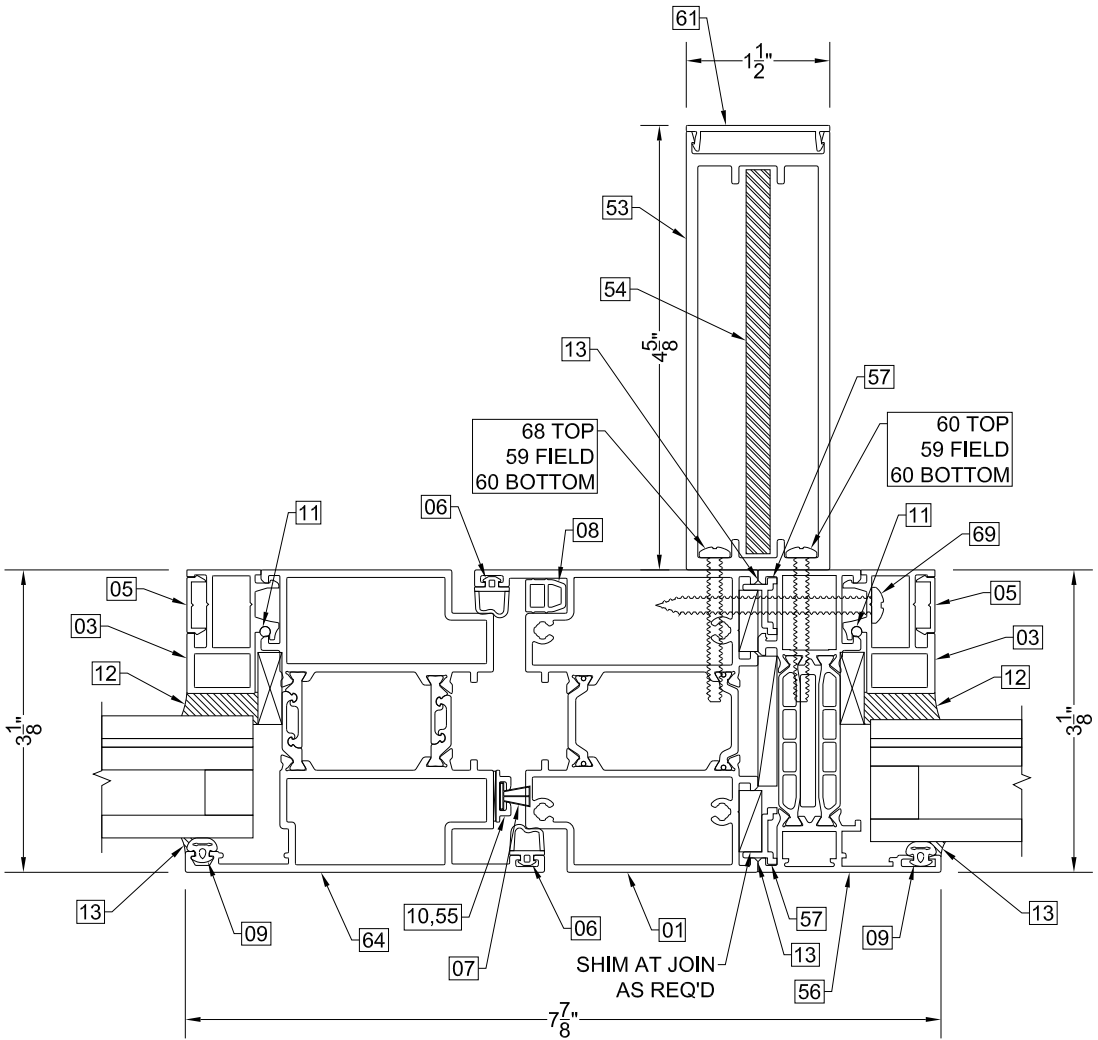
SECTION G

TYPICAL SIDELITE SECTION DETAIL



SECTION C

TYPICAL HANDLE-SIDE SECTION DETAIL
WITH SIDELITE



SECTION D

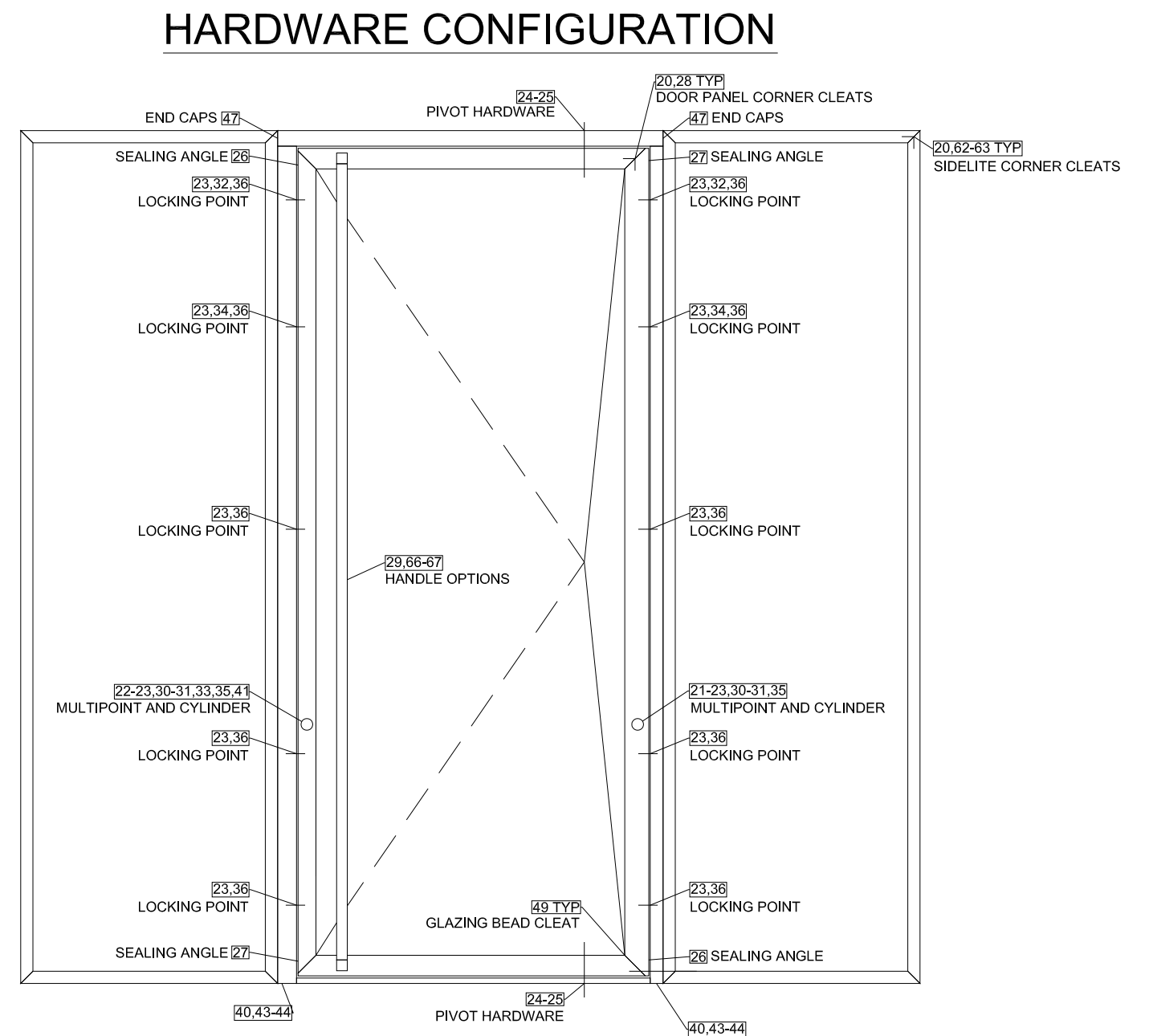
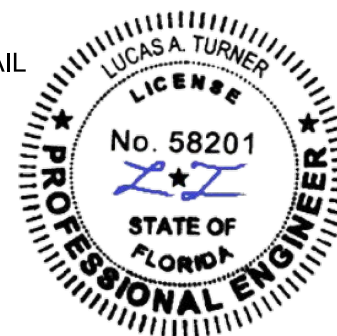
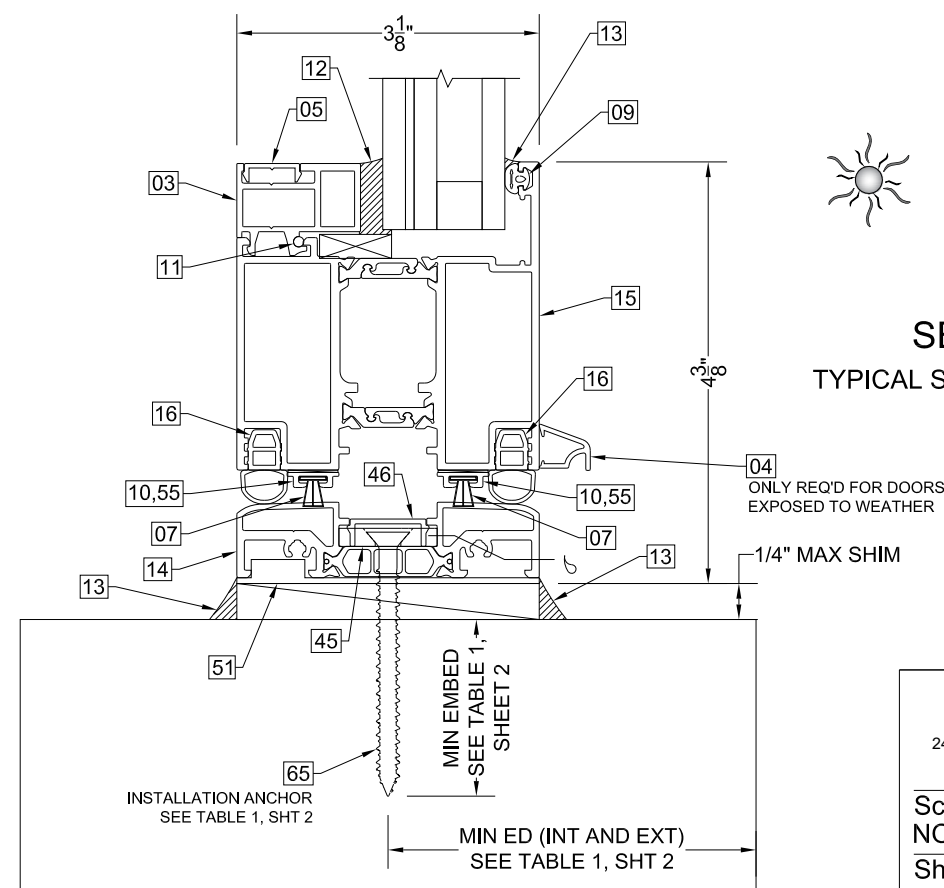
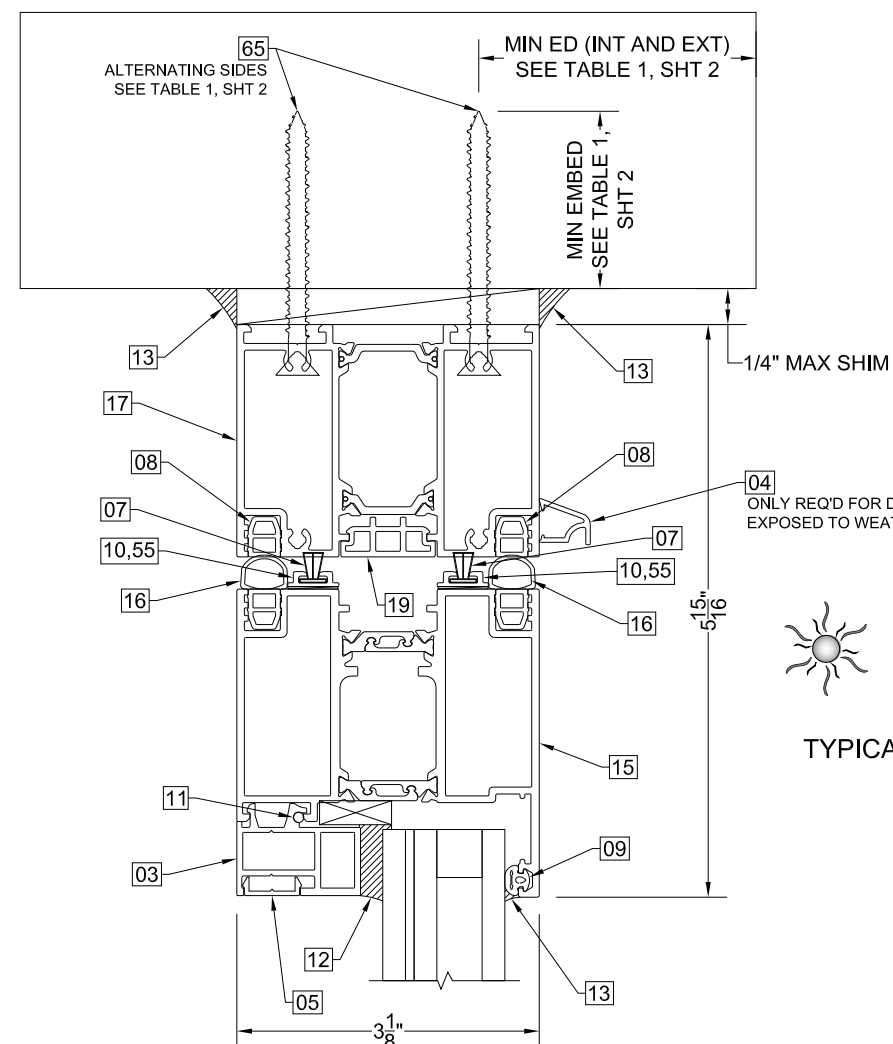
TYPICAL PIVOT-SIDE SECTION DETAIL
WITH SIDELITE



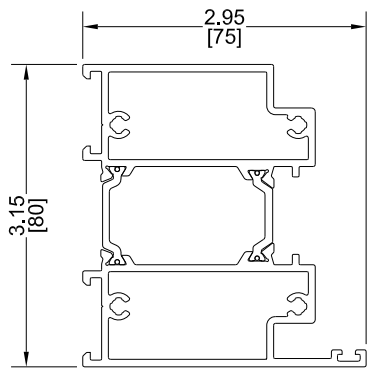
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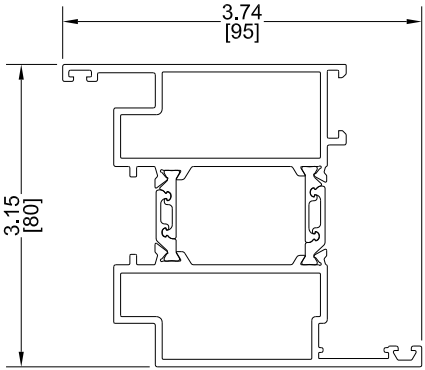
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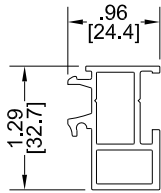
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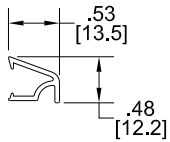
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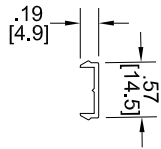
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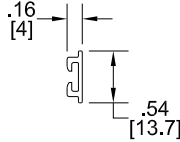
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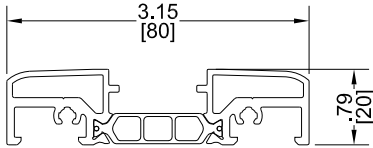
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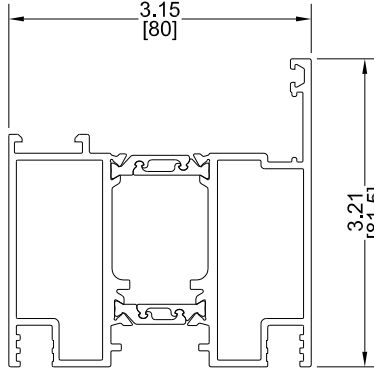
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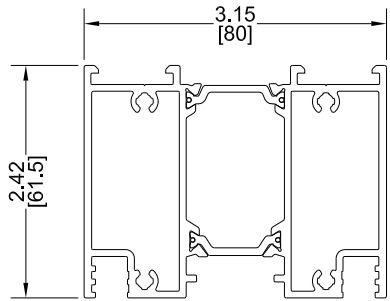
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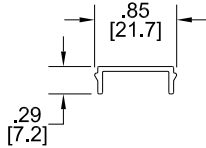
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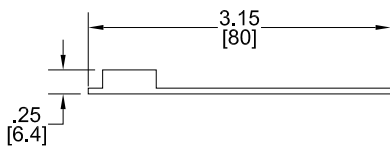
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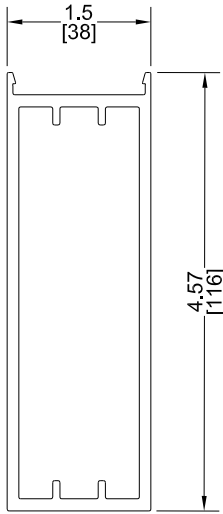
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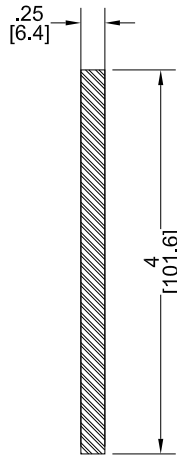
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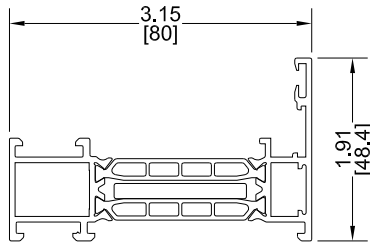
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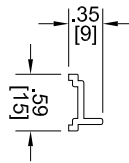
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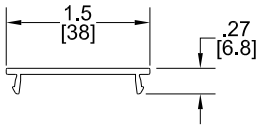
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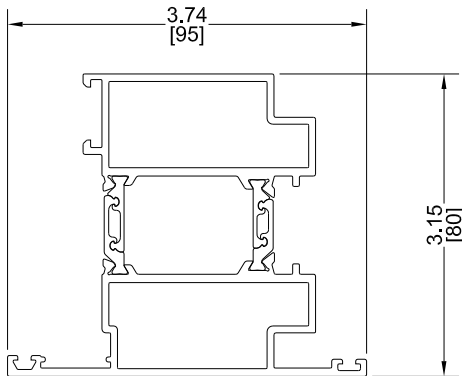
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Bill Of Materials			
TAG	Part #	Description	Material
1	LUX-PIV80-0004	Pivot Frame	6063-T5 Alum w/Polyamide Strut
2	LUX-PIV80-0007	Pivot Rail - Left	6063-T5 Alum w/Polyamide Strut
3	LUX-GZB-0004	Glazing Bead	6063-T6 Alum
4	LUX-EXT-0011	Drip Cap	6063-T5 Alum
5	LUX-COV-0018	Glazing Bead Cover	6063-T5 Alum
6	LUX-GKT-0027	Sealing Gasket	EPDM
7	LUX-GKT-0059	Trifin Brush	-
8	LUX-GKT-0060	Press Fit Gasket	EPDM
9	LUX-GKT-0001	External Gasket	EPDM
10	LUX-SD80-0009	Brush Holder	Plastic
11	LUX-GKT-0056	Cord Gasket	EPDM
12	GE-SSG4600	Stuctural Silicone	Silicone
13	DOW-795	Silicone	Silicone
14	LUX-PIV80-0001	Threshold	6063-T5 Alum w/Polyamide Strut
15	LUX-PIV80-0008	Pivot Rail - Top/Bottom	6063-T5 Alum w/Polyamide Strut
16	LUX-GKT-0061	Rail Gasket	EPDM
17	LUX-PIV80-0003	Pivot Head Frame	6063-T5 Alum w/Polyamide Strut
18	See Table 1	Sidelite Anchors	See Table 1
19	LUX-GKT-0062	Central Frame Gasket	EPDM
20	LUX-CLT-0014	Panel Alignment Cleat	6063-T5
21	LUX-HDL-0061	Locking Cylnder - Pivot Side	Steel
22	LUX-HDL-0062	Cylinder Cover	Cast Aluminum
23	LUX-STK-0011	Channel Nut Kit	Stainless Steel
24	LUX-BKT-0010	Pivot Kit	Stainless Steel
25	LUX-BKT-0011	Pivot Kit	Stainless Steel
26	LUX-COV-0045	Pivot Sealing Angle - Left	Rubber
27	LUX-COV-0046	Pivot Sealing Angle - Right	Rubber
28	LUX-CLT-0046	Sash Primary Cleat	6063-T5
29	LUX-HDL-0063	Pull Handle - 1800mm 45deg	-
30	LUX-STK-0012	Pivot Latch Plate - Left	Stainless Steel
31	LUX-STK-0013	Pivot Latch Plate - Right	Stainless Steel
32	LUX-HDL-0064	Pivot 500mm Extension	Stainless Steel
33	LUX-STK-0014	Spring Latch - Handle Side	Stainless Steel
34	LUX-HDL-0065	Pivot 800mm Extension	Stainless Steel
35	LUX-HDL-0066	Pivot Lock Body - Impact	Stainless Steel
36	LUX-STK-0015	Hook Striker	Stainless Steel
37	LUX-FST-0044	Cylinder Cover Screws, #8x.75" Flat	18-8 Stainless Steel

38	LUX-FST-0045	Upper Frame End Cap Screws #10x.5" Flat	18-8 Stainless Steel
39	LUX-FST-0046	Sealing Angle Screws #6x.625" Pan	18-8 Stainless Steel
40	LUX-FST-0016	Head Frame Screws #10x4" Pan	18-8 Stainless Steel
41	LUX-HDL-0067	Locking Cylinder - Handle Side	Steel
42	LUX-FST-0037	Glazing Bead Screws #10x.875" Pan	18-8 Stainless Steel
43	LUX-FST-0047	Threshold Base Screws #6x.375" Flat	18-8 Stainless Steel
44	LUX-FST-0048	Threshold Base Screws #6x.625" Flat	18-8 Stainless Steel
45	LUX-CLT-0038	Threshold Anchor Keys	6061-T6 Alum
46	LUX-COV-0022	Threshold Cover	Plastic
47	LUX-COV-0023	Pivot Upper Frame End Caps	6061-T5 Alum
48	LUX-PRK-0038	Impact Setting Block - Pivot	Plastic
49	LUX-CLT-0045	Glazing Bead Cleat	6061-T6 Alum
50	LUX-FST-0039	Glazing Bead Cleat Screw #10x.5" Flat	18-8 Stainless Steel
51	LUX-PRK-0039	Threshold Base	Plastic
52	LUX-PRK-0049	Glazing Spacers	Plastic
53	LUX-EXT-0044	Large Mullion Reinforcement	6063-T6 Alum
54	-	.25" x 4" SS Bar	304 Stainless Steel
55	LUX-ADH-0005	VHB Tape	-
56	LUX-FX80-0001	Window Frame	6063-T5 Alum w/Polyamide Strut
57	LUX-EXT-0013	Join Mull Clip	6063-T5 Alum
58	LUX-PRK-0036	Window Setting Block	Nylon 6
59	LUX-FST-0041	Mull Reinforcement Screws #8x1.5" Pan	18-8 Stainless Steel
60	LUX-FST-0043	Mull Reinforcement Screws #14x1.5" Pan	18-8 Stainless Steel
61	LUX-EXT-0048	Mull Reinforcement Cover	6063-T5 Alum
62	LUX-CLT-0002	Primary Frame Cleat	6063-T5 Alum
63	LUX-CLT-0003	Secondary Frame Cleat	6063-T5 Alum
64	LUX-PIV80-0009	Pivot Rail - Right	6063-T5 Alum w/Polyamide Strut
65	See Table 1	Pivot Door Anchors	See Table 1
66	LUX-HDL-0068	Pull Handle - 400mm	-
67	LUX-HDL-0069	Pull Handle - Custom Full Height	-
68	LUX-FST-0053	Mull Reinforcement Screws #14x.5" Pan	18-8 Stainless Steel
69	LUX-FST-0038	Join Mull Screws #10x2" Pan	18-8 Stainless Steel



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Scale:
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Drawing Title:
LUXVIEW PIVOT 80i - INSWING PIVOT DOOR

Drawing Number:
FPA-PIVOT80i

Drawn By:
JAB

Reviewed By:
CAC

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