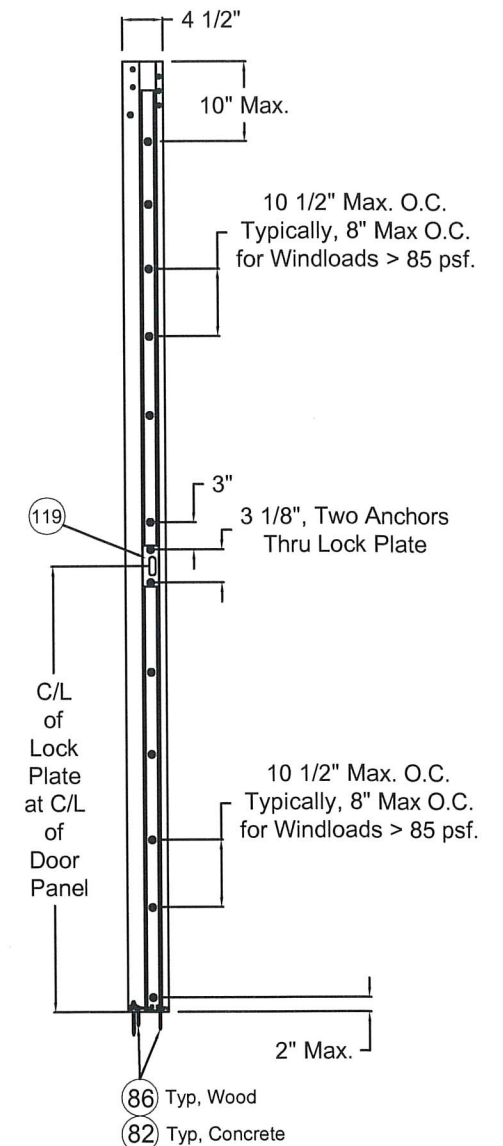
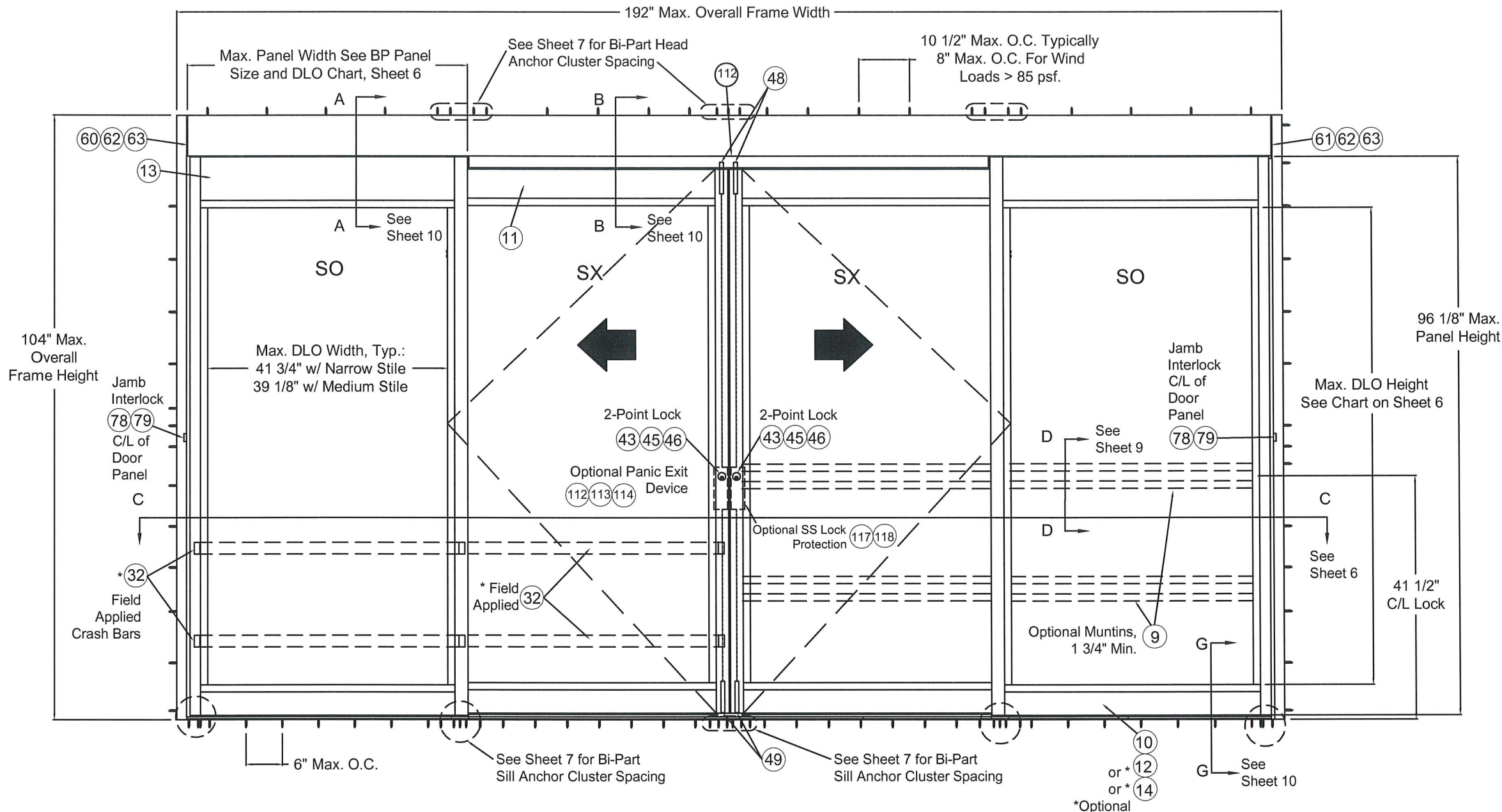
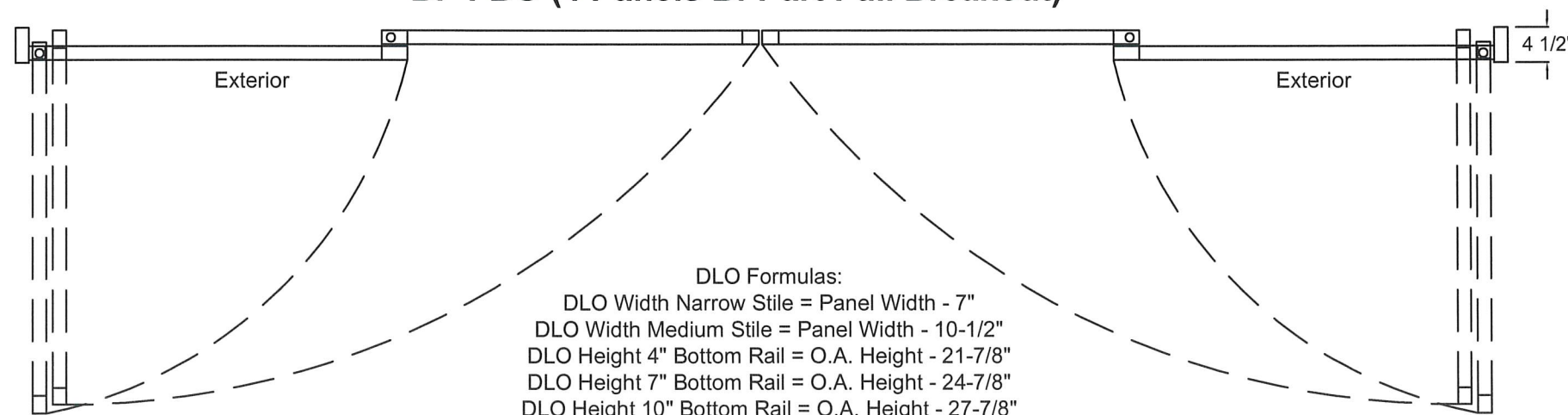


ASSA ABLOY ASSA ABLOY ENTRANCE SYSTEMS 1900 AIRPORT ROAD MONROE, NC 28110 PHONE: 1-866-237-2687		ASSA ABLOY SL500 RESILIENCE R104 SLIDING DOOR SYSTEM BI-PARTING AND SINGLE SLIDING		<table><tr><th colspan="4">Revisions</th></tr><tr><th>Rev</th><th>Description</th><th>Date</th><th>Approved</th></tr><tr><td>0</td><td>Initial Release</td><td></td><td>SJF</td></tr><tr><td>1</td><td>Added Glass Note on Sheet 5.</td><td>10/18/19</td><td>SJF</td></tr></table>				Revisions				Rev	Description	Date	Approved	0	Initial Release		SJF	1	Added Glass Note on Sheet 5.	10/18/19	SJF
Revisions																							
Rev	Description	Date	Approved																				
0	Initial Release		SJF																				
1	Added Glass Note on Sheet 5.	10/18/19	SJF																				
GENERAL NOTES: 1. THIS PRODUCT HAS BEEN TESTED PER TAS 201, 202, & 203. IT MEETS ALL OF THE REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE FOR USE OUTSIDE THE HVHZ. GLASS TYPES 1-3 ARE LARGE AND SMALL IMPACT RESISTANT, AND DO NOT REQUIRE SHUTTERS IN WINDBORNE DEBRIS REGIONS. GLASS TYPES 4 & 5 ARE NOT IMPACT RESISTANT. IMPACT RESISTANT SHUTTERS ARE REQUIRED IN WINDBORNE DEBRIS REGIONS. 2. MAX. DESIGN PRESSURES ARE LISTED ON SHEET 4. 3. THIS DOOR SYSTEM IS NOT TESTED OR RATED FOR WATER INFILTRATION RESISTANCE. IT IS INTENDED FOR USE ONLY IN LOCATIONS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR WHERE IT IS PROTECTED BY AN OVERHANG MEETING THE REQUIREMENTS OF FBC SECTION 1709.5.1. 4. OPENING SUBSTRATES, WOOD BUCKS (OPTIONAL), AND WOOD BUCK FASTENERS ARE BY OTHERS AND MUST BE DESIGNED AND INSTALLED PER FBC REQUIREMENTS TO SAFELY TRANSFER THE LOADS FROM THIS SYSTEM TO THE BUILDING STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS LISTED IN THE ANCHOR CHART ON SHEET 13. 5. ANCHOR TYPE, SIZE, SPACING, AND EMBEDMENT SHALL BE AS LISTED IN THE ANCHOR CHART ON SHEET 13, AND AS DETAILED IN THESE DRAWINGS. ANCHOR EMBEDMENT IN SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. 6. ALL FASTENERS PENETRATING INTO PRESSURE TREATED WOOD SHALL BE CAPABLE OF PREVENTING CORROSION DUE TO REACTION WITH PRESSURE TREATMENT CHEMICALS. 7. THE 4/3 INCREASE IN ALLOWABLE STRESS FOR SHORT-TERM LOADING HAS NOT BEEN USED IN THE DESIGN OF THIS SYSTEM. THE 1.6 Cd FACTOR HAS BEEN USED IN THE ANALYSIS OF WOOD SCREWS ONLY. 8. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT GALVANIC REACTIONS IN ACCORDANCE WITH FBC CHAPTERS 20 AND 23.				Sheet 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		Description General Notes, Corner Construction Bi-Part Elevation, Jamb Anchoring Locations Single Slide Elevation, Jamb Anchoring Locations Design Pressure Charts Glazing Details Bi-Part Section Views Bi-Part Head and Sill Anchoring Locations Single Slide Section Views Single Slide Head and Sill Anchoring Locations Door Connections and Head Section Views Locking Details, Muntin Details Frame Connection Details Threshold Anchoring Details, Installation Anchor Table Head and Jamb Anchoring Details Profiles Bill of Materials, Sheet 1 of 2 Bill of Materials, Sheet 2 of 2 Panic Exit Device Interior Profile Panic Exit Device Exterior Profile Panic Exit Device Installation Details, Sheet 1 of 2 Panic Exit Device Installation Details, Sheet 2 of 2																	
SYSTEM NOTES: 1. ALL ALUMINUM PARTS SHALL BE 6063-T5 ALUMINUM ALLOY AND TEMPER, UNLESS OTHERWISE NOTED. 2. FOR GLAZING DETAILS, SEE SHEET 5. 3. THE GLAZING MATERIALS IN BOTH FIXED AND SLIDING PANELS OF ALL SLIDING DOORS MUST COMPLY WITH THE REQUIREMENTS IN THE PERFORMANCE SPECIFICATIONS AND METHODS OF TEST FOR SAFETY GLAZING MATERIALS USED IN BUILDINGS, PER FBC REQUIREMENTS. 4. THIS SYSTEM HAS NOT BEEN TESTED PER ANSI Z97.1.				<table><tr><th>DESIGN PRESSURE</th><th>IMPACT RATING</th></tr><tr><td>SEE TABLES ON SHEET 4</td><td>SEE TABLES ON SHEET 4 AND GLAZING DETAILS ON SHEET 5</td></tr></table>		DESIGN PRESSURE	IMPACT RATING	SEE TABLES ON SHEET 4	SEE TABLES ON SHEET 4 AND GLAZING DETAILS ON SHEET 5	SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX:(561) 225-1982 SEAL No 62354 STATE OF FLORIDA APR 25 2023 PROFESSIONAL ENGINEER													
DESIGN PRESSURE	IMPACT RATING																						
SEE TABLES ON SHEET 4	SEE TABLES ON SHEET 4 AND GLAZING DETAILS ON SHEET 5																						
CORNER CONSTRUCTION: 5. FRAME CORNERS ARE SQUARE CUT AND MECHANICALLY FASTENED AT THE HEAD WITH M6x30 SCREWS USING A BEAM END PLATE (SEE SHEET 12), 6. PANEL CORNERS ARE SQUARE CUT AND MECHANICALLY FASTENED AT EACH CORNER USING ANTI-TWIST BRACKETS, THEN REINFORCED WITH (2) FULL WIDTH 3/8" THREADED TIE IN THE TOP AND BOTTOM RAILS.				<table><tr><td rowspan="3"></td><td colspan="2">DWG NO. SL500-R104</td></tr><tr><td>DRAWN BY SJF</td><td>DATE 7/19/2019</td></tr><tr><td colspan="2">SHEET DESCRIPTION SHEET NO. 1 OF 21</td></tr><tr><td colspan="3">ASSA ABLOY</td></tr></table>			DWG NO. SL500-R104		DRAWN BY SJF	DATE 7/19/2019	SHEET DESCRIPTION SHEET NO. 1 OF 21		ASSA ABLOY										
	DWG NO. SL500-R104																						
	DRAWN BY SJF	DATE 7/19/2019																					
	SHEET DESCRIPTION SHEET NO. 1 OF 21																						
ASSA ABLOY																							

Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF



BP FBO (4 Panels Bi-Part Full Breakout)



SIDELITE JAMB (TYP. BOTH JAMBS)

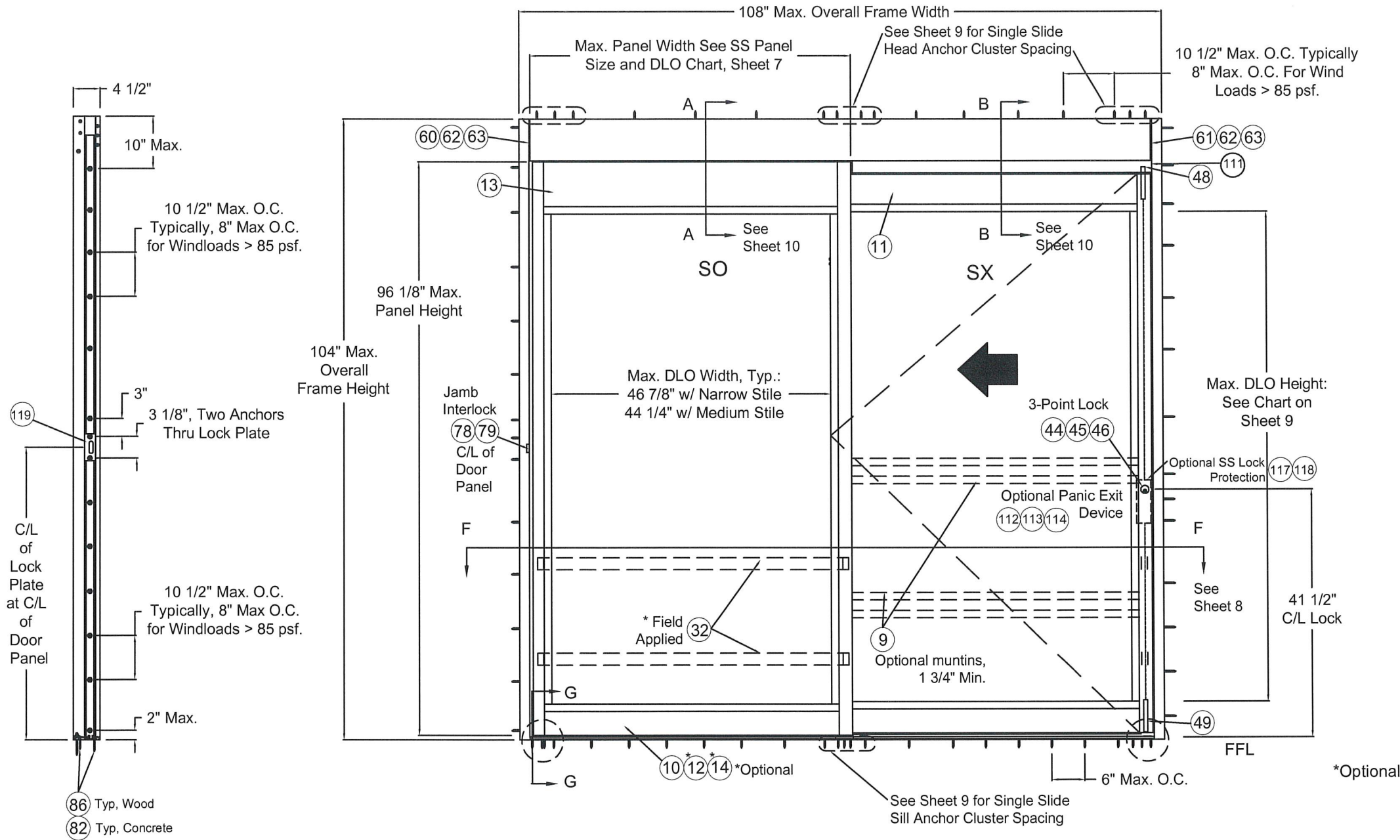
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
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STATE OF FLORIDA
APR 25 2023
PROFESSIONAL ENGINEER

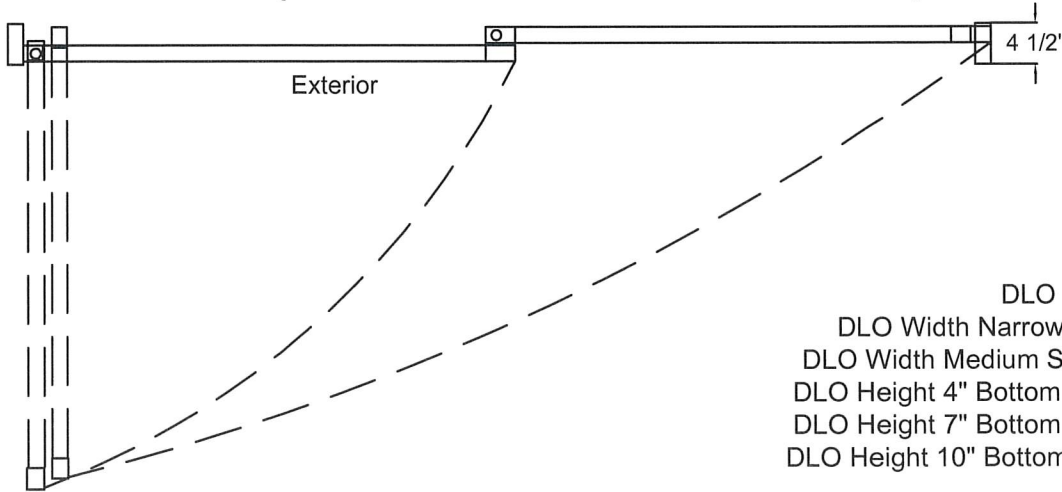
DWG NO.	SL500-R104
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	SHEET NO. 2 OF 21

Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF

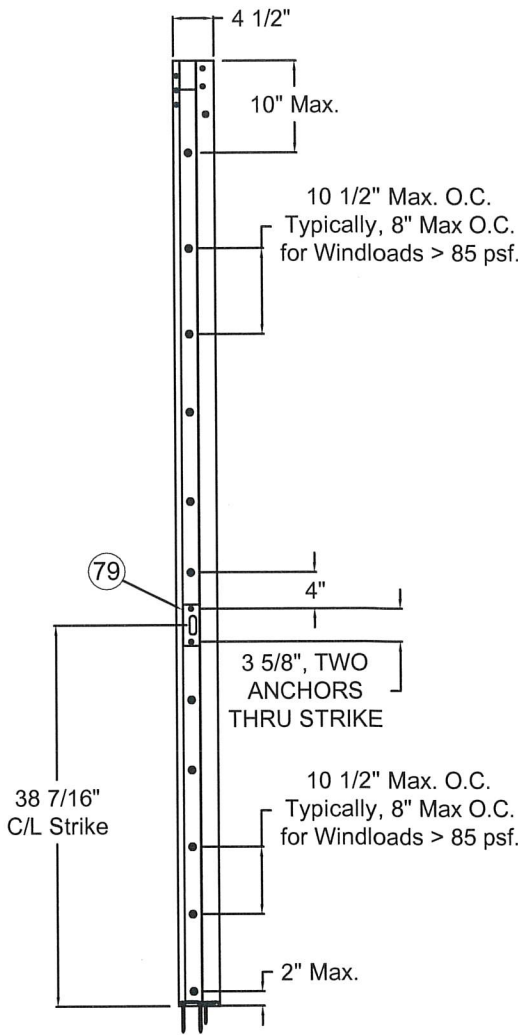


SIDELITE JAMB

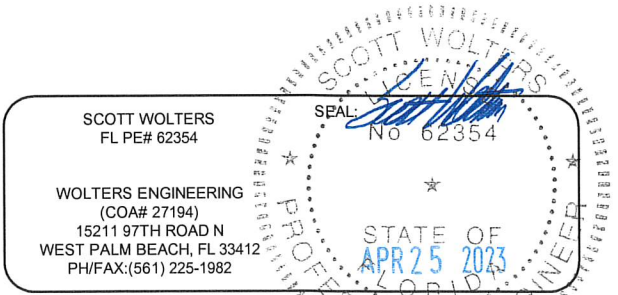
LH FBO (2 Panels Left-Hand Full Breakout)



DLO Formulas:
DLO Width Narrow Stile = Panel Width - 7"
DLO Width Medium Stile = Panel Width - 10 1/2"
DLO Height 4" Bottom Rail = O.A. Height - 21 7/8"
DLO Height 7" Bottom Rail = O.A. Height - 24 7/8"
DLO Height 10" Bottom Rail = O.A. Height - 27 7/8"



ACTIVE JAMB



DWG NO.	SL500-R104
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	SHEET NO. 3 OF 21

ASSA ABLOY

ASSA ABLOY ENTRANCE SYSTEMS
1900 AIRPORT ROAD
MONROE, NC 28110
PHONE: 1-866-237-2687

ASSA ABLOY

SL500 RESILIENCE R104 SLIDING DOOR SYSTEM
BI-PARTING AND SINGLE SLIDING

Revisions

Rev	Description	Date	Approved
0	Initial Release		SJF

SINGLE SLIDE - MAXIMUM DESIGN PRESSURE

GLASS TYPE	IMPACT RATING	LOCKING HARDWARE	MAX. FRAME SIZE (in)	MAX. DESIGN PRESSURE (psf)
GLASS TYPES 1 & 2	LMI - MISSILE D	3 PT. LOCK ADAMS-RITE 8600	SEE CHART BELOW 108" x 104"	SEE CHART BELOW 80
GLASS TYPE 3	LMI - MISSILE E	3 PT. LOCK ADAMS-RITE 8600	108" x 104" 108" x 104"	80 80
GLASS TYPES 4 & 5	NON-IMPACT**	3 PT. LOCK ADAMS-RITE 8600	SEE CHART BELOW SEE CHART BELOW	SEE CHART BELOW SEE CHART BELOW

** SHUTTERS ARE REQUIRED FOR WINDBORNE DEBRIS REGIONS

BI-PARTING - MAXIMUM DESIGN PRESSURE

GLASS TYPE	IMPACT RATING	LOCKING HARDWARE	MAX. FRAME SIZE (in)	MAX. DESIGN PRESSURE (psf)
GLASS TYPES 1 & 2	LMI - MISSILE D	4 PT. LOCK ADAMS-RITE 9600	SEE CHART BELOW 192" x 104"	SEE CHART BELOW 80
GLASS TYPE 3	LMI - MISSILE E	4 PT. LOCK ADAMS-RITE 9600	192" x 104" 192" x 104"	80 80
GLASS TYPES 4 & 5	NON-IMPACT**	4 PT. LOCK ADAMS-RITE 9600	SEE CHART BELOW SEE CHART BELOW	SEE CHART BELOW SEE CHART BELOW

** SHUTTERS ARE REQUIRED FOR WINDBORNE DEBRIS REGIONS

ALLOWABLE PRESSURES FOR GLASS TYPES 1 & 2 (LMI LEVEL D)
SINGLE SLIDE WITH 3-POINT LOCK

FRAME HEIGHT (in)	FRAME WIDTH (in)	MAX DESIGN PRESSURE +/- (psf)	FRAME HEIGHT (in)	FRAME WIDTH (in)	MAX DESIGN PRESSURE +/- (psf)
90	80	125.0	98	80	118.8
90	84	119.0	98	84	113.1
90	88	113.6	98	88	108.0
90	92	108.7	98	92	103.3
90	96	104.2	98	96	99.0
90	100	100.0	98	100	95.0
90	104	96.2	98	104	91.4
90	108	92.6	98	108	88.0
92	80	123.5	100	80	117.4
92	84	117.6	100	84	111.8
92	88	112.3	100	88	106.7
92	92	107.4	100	92	102.1
92	96	102.9	100	96	97.8
92	100	98.8	100	100	93.9
92	104	95.0	100	104	90.3
92	108	91.5	100	108	87.0
94	80	121.9	102	80	116.2
94	84	116.0	102	84	110.6
94	88	110.8	102	88	105.6
94	92	106.0	102	92	101.0
94	96	101.5	102	96	96.8
94	100	97.5	102	100	92.9
94	104	93.7	102	104	89.3
94	108	90.3	102	108	86.0
96	80	120.2	104	80	114.8
96	84	114.4	104	84	112.0
96	88	109.2	104	88	104.3
96	92	104.5	104	92	99.8
96	96	100.1	104	96	95.6
96	100	96.1	104	100	91.8
96	104	92.4	104	104	88.3
96	108	89.0	104	108	85.0

MAX DESIGN PRESSURE FOR GLASS TYPES 4 & 5 (NON-IMPACT)
SINGLE SLIDE

FRAME HEIGHT (in)	FRAME WIDTH (in)	MAX DESIGN PRESSURE +/- (psf)	FRAME HEIGHT (in)	FRAME WIDTH (in)	MAX DESIGN PRESSURE +/- (psf)
90	80	132.6	98	80	121.8
90	84	126.3	98	84	116.0
90	88	120.5	98	88	110.7
90	92	115.3	98	92	105.9
90	96	110.5	98	96	101.5
90	100	106.1	98	100	97.4
90	104	102.0	98	104	93.7
90	108	98.2	98	108	90.2
92	80	129.7	100	80	119.3
92	84	123.5	100	84	113.6
92	88	117.9	100	88	108.5
92	92	112.8	100	92	104.0
92	96	108.1	100	96	99.5
92	100	103.8	100	100	95.5
92	104	99.8	100	104	91.8
92	108	96.1	100	108	88.4
94	80	127.0	102	80	117.0
94	84	120.9	102	84	111.4
94	88	115.4	102	88	106.4
94	92	110.4	102	92	101.7
94	96	105.8	102	96	97.5
94	100	101.6	102	100	93.6
94	104	97.7	102	104	90.0
94	108	94.0	102	108	86.7
96	80	124.3	104	80	114.8
96	84	118.4	104	84	109.3
96	88	113.0	104	88	104.3
96	92	108.1	104	92	99.8
96	96	103.6	104	96	95.6
96	100	99.5	104	100	91.8
96	104	95.6	104	104	88.3
96	108	92.1	104	108	85.0

MAX DESIGN PRESSURE FOR GLASS TYPES 1 & 2 (LMI LEVEL D)
BI-PARTING WITH 4-POINT LOCK

FRAME HEIGHT (in)	FRAME WIDTH (in)	MAX DESIGN PRESSURE +/- (psf)	FRAME HEIGHT (in)	FRAME WIDTH (in)	MAX DESIGN PRESSURE +/- (psf)
90	120	115.0	98	120	105.6
90	144	107.5	98	144	98.7
90	168	99.9	98	168	91.8
90	192	92.4	98	192	84.9
92	120	112.5	100	120	103.5
92	144	105.1	100	144	96.7
92	168	97.8	100	168	90.0
92	192	90.4	100	192	83.2
94	120	110.1	102	120	101.5
94	144	102.9	102	144	94.9
94	168	95.7	102	168	88.2
94	192	88.5	102	192	81.6
96	120	107.8	104	120	99.5
96	144	100.8	104	144	93.0
96	168	93.7	104	168	86.5
96	192	86.7	104	192	80.0

MAX DESIGN PRESSURE FOR GLASS TYPES 4 & 5 (NON-IMPACT)
BI-PARTING

FRAME HEIGHT (in)	FRAME WIDTH (in)	MAX DESIGN PRESSURE +/- (psf)	FRAME HEIGHT (in)	FRAME WIDTH (in)	MAX DESIGN PRESSURE +/- (psf)
90	120	129.4	98	120	118.9
90	144	107.9	98	144	99.0
90	168	92.4	98	168	84.9
90	192	80.9	98	192	74.3
92	120	126.6	100	120	116.5
92	144	105.5	100	144	97.1
92	168	90.4	100	168	83.2
92	192	79.1	100	192	72.8
94	120	123.9	102	120	114.2
94	144	103.3	102	144	95.2
94	168	88.5	102	168	81.6
94	192	77.4	102	192	71.4
96	120	121.3	104	120	112.0
96	144	101.1	104	144	93.3
96	168	86.7	104	168	80.0
96	192	75.8	104	192	70.0

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DWG NO. SL500-R104

DRAWN BY SJF DATE 7/19/2019

SHEET DESCRIPTION SHEET NO. 4 OF 21

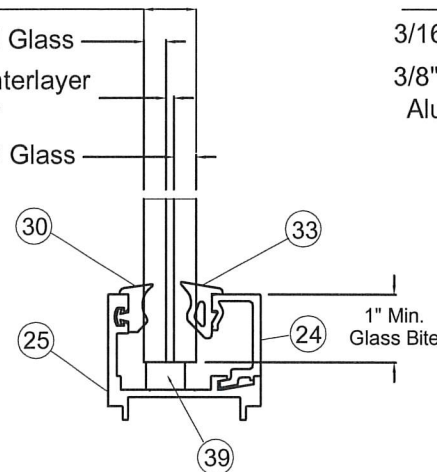
ASSA ABLOY

Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF
1	Added Note for Glass Type 4	10/18/19	SJF

Glass Type 1
9/16" LAMINATED GLASS

9/16" Laminated 'D' Impact Glass
(.590" actual)

1/4" Heat Strengthened Glass -
.090" Sentryglas Interlayer
by Kuraray
1/4" Heat Strengthened Glass -



Glass Type 2
1" INSULATED LAMINATED GLASS

1" O.A. Insulating Impact Glass
(1" actual)

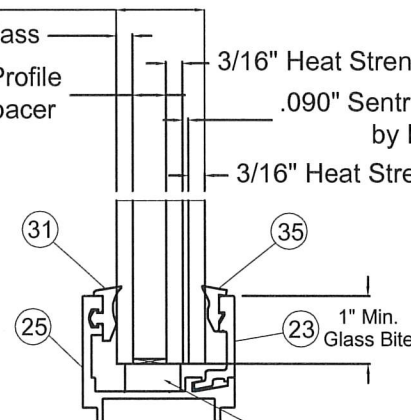
3/16" Full Tempered Glass

3/8" Air Gap with Low Profile Aluminum Ramapo Spacer

3/16" Heat Strengthened Glass

.090" Sentryglas Interlayer by Kuraray

3/16" Heat Strengthened Glass

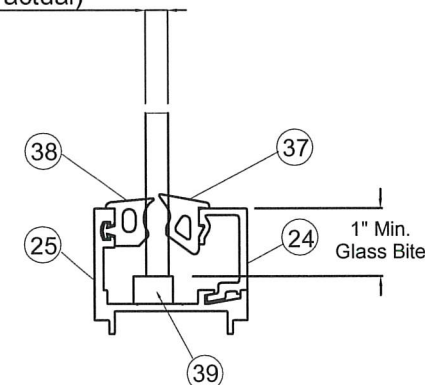


FBC 2411.3.3.1
Compliant Setting Blocks
80 Durometer Neoprene
2 per Glass Edge

LEVEL D LARGE AND SMALL MISSILE IMPACT

Glass Type 4
1/4" TEMPERED GLASS

1/4" Fully Tempered
(.250" actual)



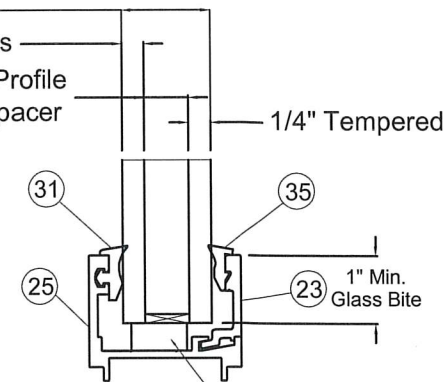
Glass Type 5
1" INSULATED TEMPERED GLASS

1" O.A. Insulated Glass
(1" actual)

1/4" Tempered Glass

1/2" Air Gap with Low Profile Aluminum Ramapo Spacer

1/4" Tempered Glass



FBC 2411.3.3.1
Compliant Setting Blocks
80 Durometer Neoprene
2 per Glass Edge

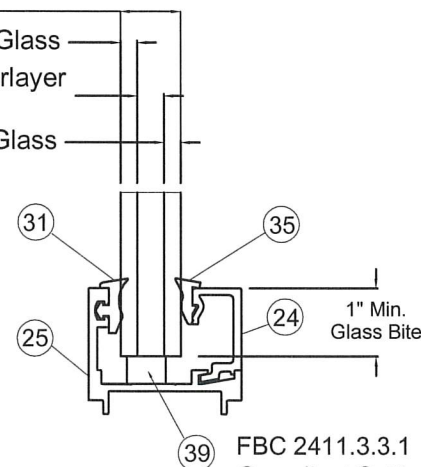
NON-IMPACT

GLASS TYPES 4 & 5 ARE NOT IMPACT RESISTANT. AN IMPACT RESISTANT SHUTTER SYSTEM IS REQUIRED FOR USE IN WINDBORNE DEBRIS REGIONS.

Glass Type 3
9/16" LAMINATED GLASS

9/16" Laminated 'E' Impact Glass
(.680" actual)

1/4" Heat Strengthened Glass -
 .180" Sentryglas Interlayer
 by Kuraray
 1/4" Heat Strengthened Glass -



FBC 2411.3.3.1
Compliant Setting Blocks
80 Durometer Neoprene
2 per Glass Edge

LEVEL E LARGE AND SMALL MISSILE IMPACT

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FL PE# 62354

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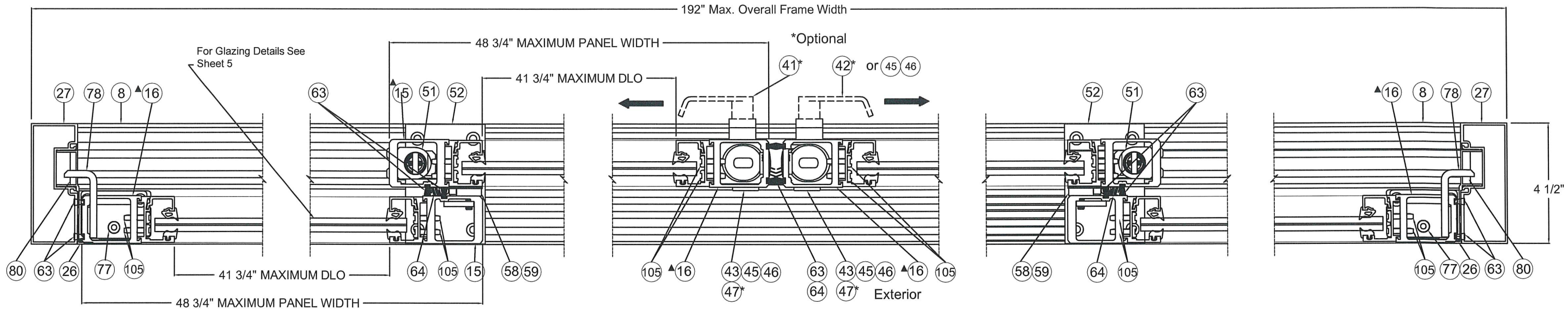
SEAL: 
No 62354

STATE OF
APR 25 2023

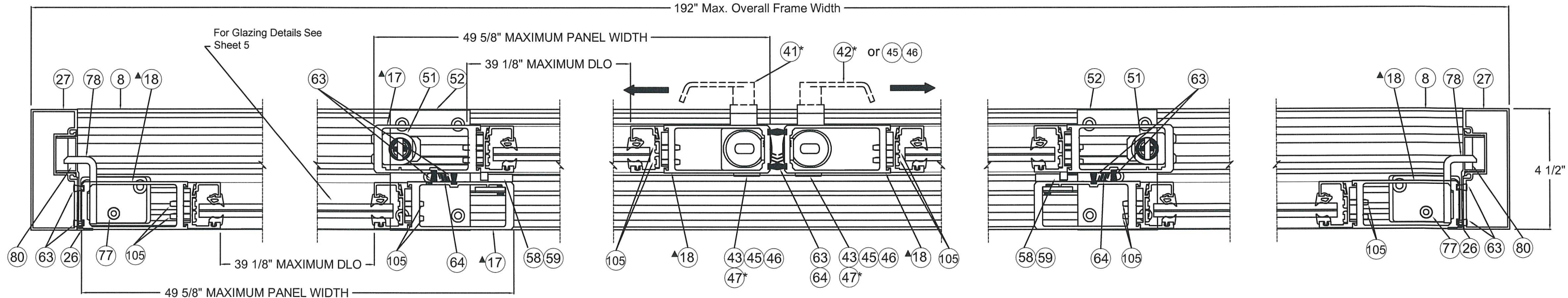
DWG NO.		SL500-R104	
DRAWN BY SJF		DATE 7/19/2019	
SHEET DESCRIPTION		SHEET NO. 5 OF 21	

ASSA ABLOY

▲ US Patent 11,448,003 B2



Section C-C, Narrow Stile
BI-PARTING FULL BREAKOUT SHOWN



Section C-C, Medium Stile
BI-PARTING FULL BREAKOUT SHOWN

BP Panel Size and Daylight Opening Chart		
Door Stile	Maximum Panel Width	Maximum DLO Width
Narrow	48 3/4"	41 3/4"
Medium	49 5/8"	39 1/8"
Bottom Rail	Maximum Panel Height	Maximum DLO Height
4"	96 1/8"	82 1/8"
7"	96 1/8"	79 1/8"
10"	96 1/8"	76 1/8"

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FL PE# 62354

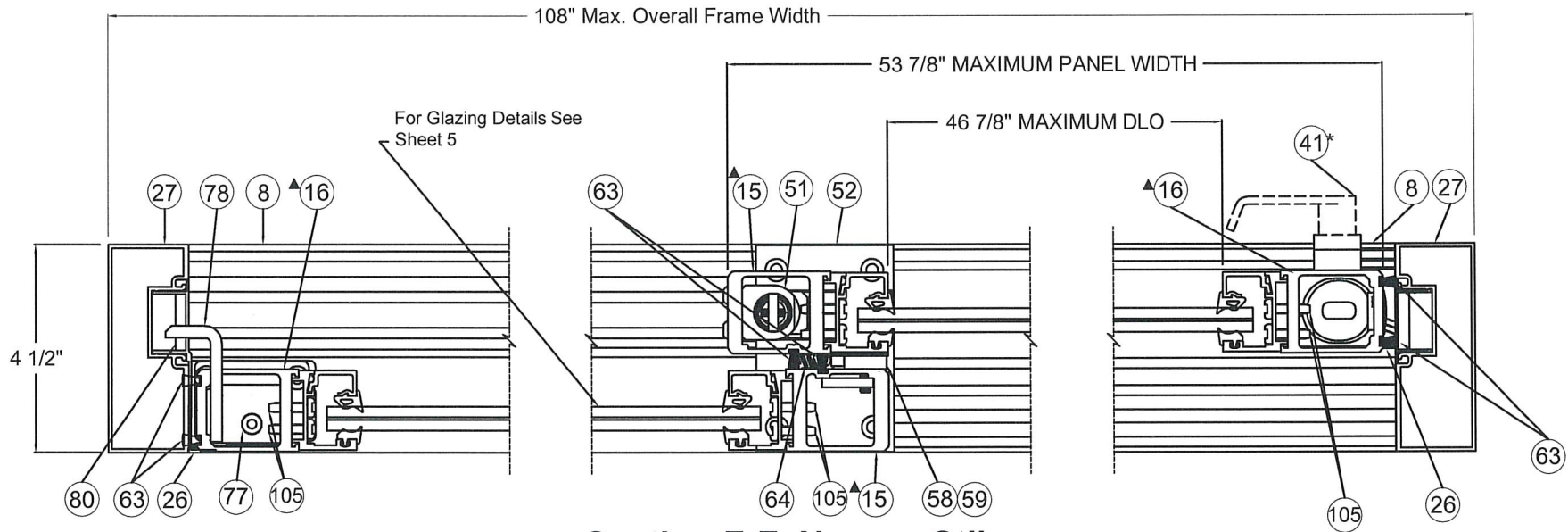
WOLTERS ENGINEERING
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SEAL: [Signature]
No 62354
STATE OF FLORIDA
APR 25 2023
PROFESSIONAL ENGINEER

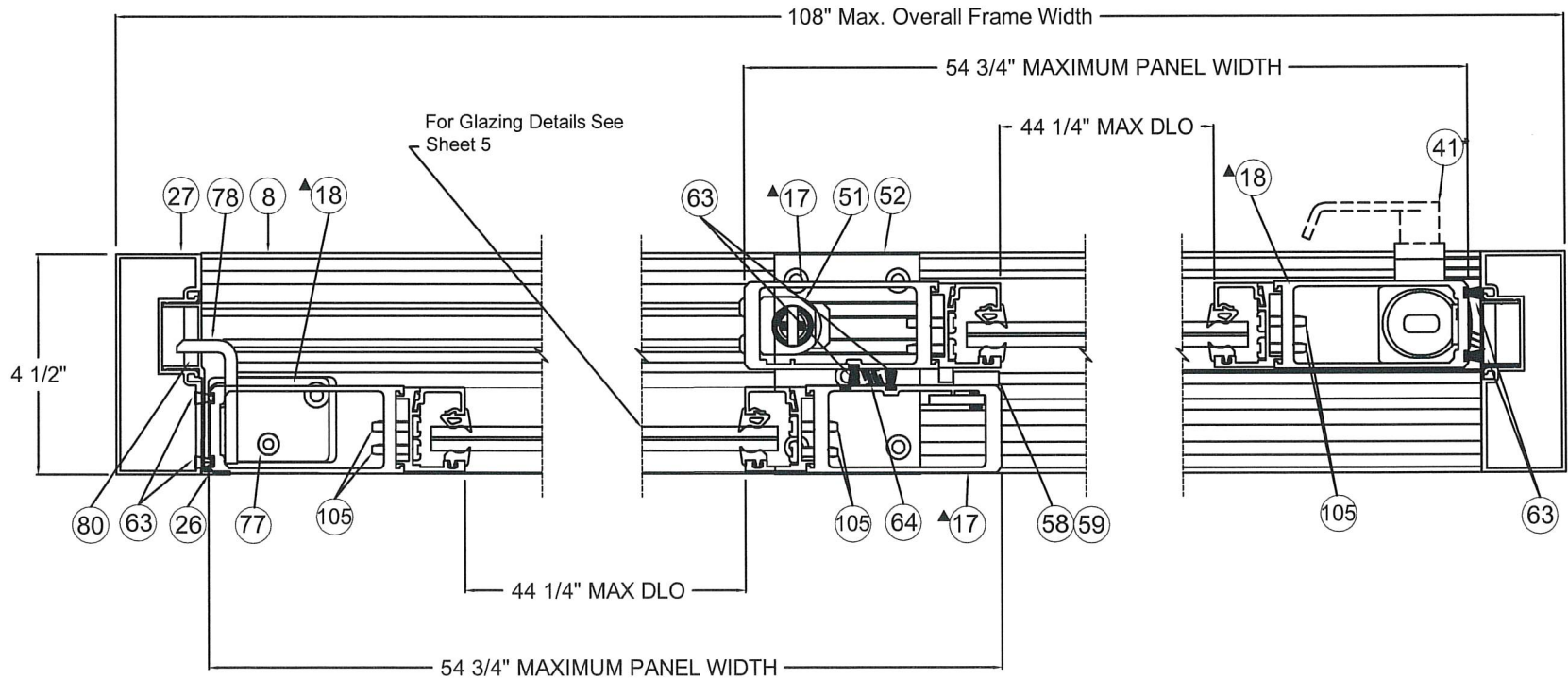
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DRAWN BY		SJF	DATE 7/19/2019
SHEET DESCRIPTION			SHEET NO. 6 OF 21
ASSA ABLOY			

Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF

▲ US Patent 11,448,003 B2



Section F-F, Narrow Stile
SINGLE SLIDE FULL BREAKOUT SHOWN



Section F-F, Medium Stile
SINGLE SLIDE FULL BREAKOUT SHOWN

Single Slide Panel Size and Daylight Opening Chart

Door Stile	Maximum Panel Width	Maximum DLO Width
Narrow	53 7/8"	46 7/8"
Medium	54 3/4"	44 1/4"
Bottom Rail	Maximum Panel Height	Maximum DLO Height
4"	96 1/8"	82 1/8"
7"	96 1/8"	79 1/8"
10"	96 1/8"	76 1/8"

SCOTT WOLTERS
FL PE# 62354

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WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

SEAL: No 62354

STATE OF
APR 25 2023
PROFESSIONAL ENGINEER

DWG NO. SL500-R104

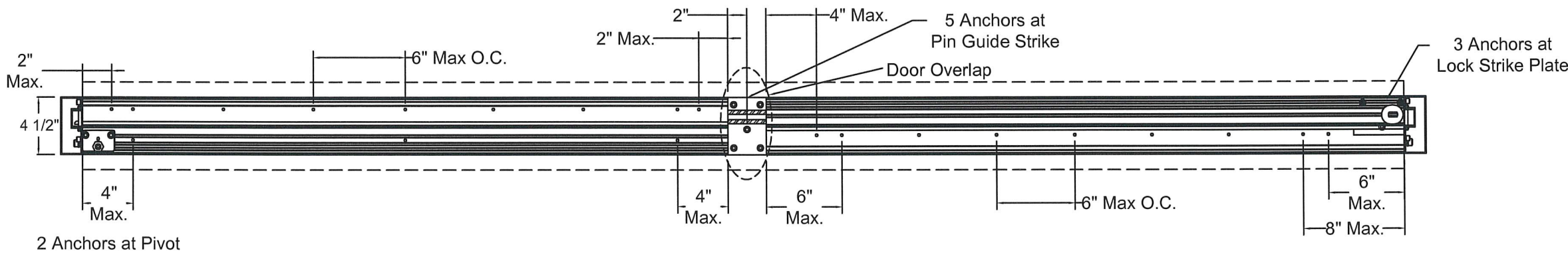
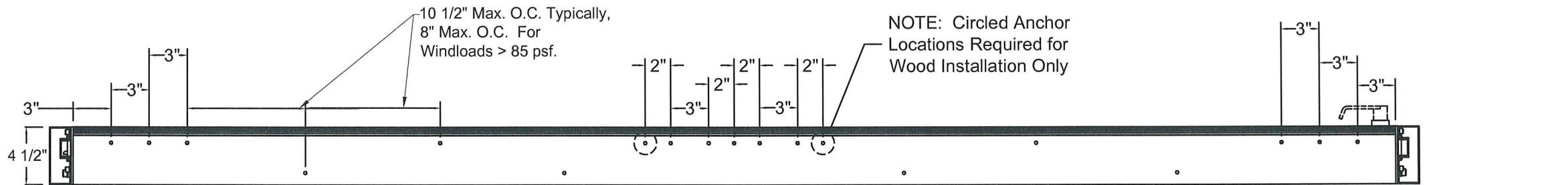
DRAWN BY SJF DATE 7/19/2019

SHEET DESCRIPTION SHEET NO. 8 OF 21

ASSA ABLOY

Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF

SINGLE-SLIDE HEAD ANCHOR LOCATIONS

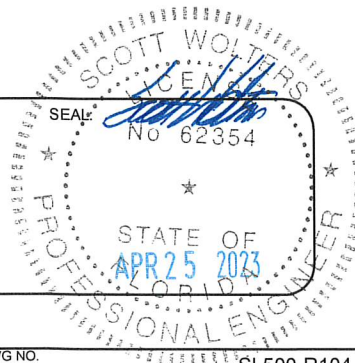


SINGLE-SLIDE SILL ANCHOR LOCATIONS

Single Slide Panel Size and Daylight Opening Chart		
Door Stile	Maximum Panel Width	Maximum DLO Width
Narrow	53 7/8"	46 7/8"
Medium	54 3/4"	44 1/4"
Bottom Rail	Maximum Panel Height	Maximum DLO Height
4"	96 1/8"	82 1/8"
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10"	96 1/8"	76 1/8"

SCOTT WOLTERS
FL PE# 62354

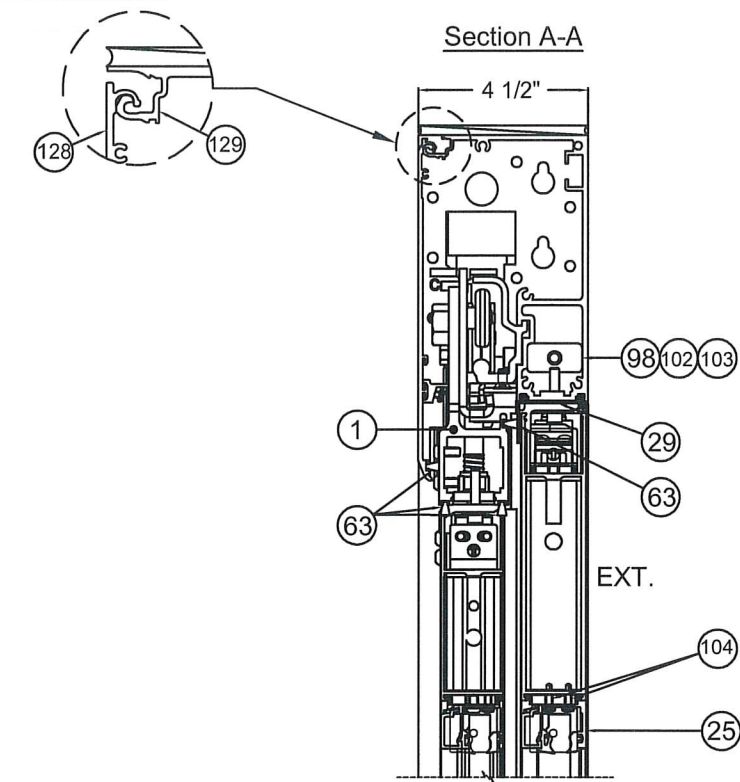
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561) 225-1982



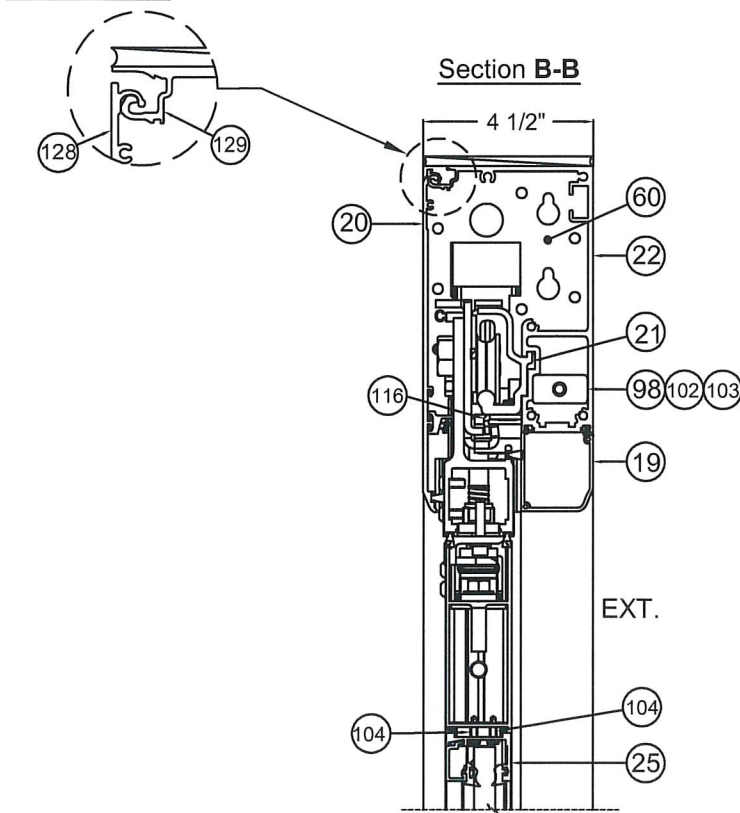
DWG NO.	SL500-R104
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	SHEET NO. 9 OF 21

Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF

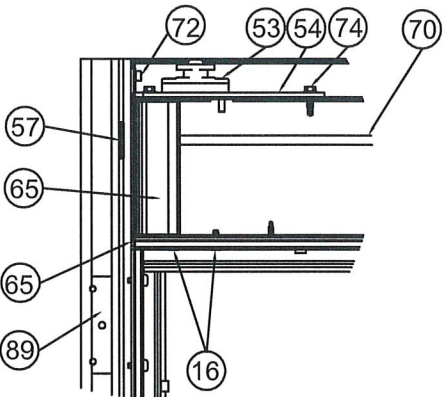
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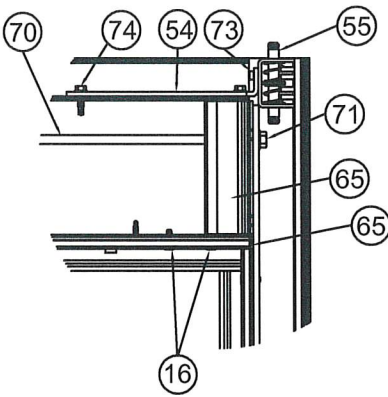
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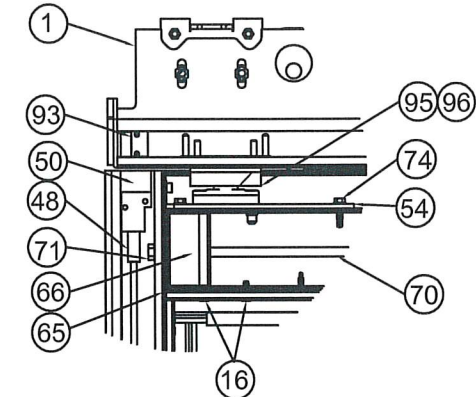
Sidelite Top Corner- Lead Side



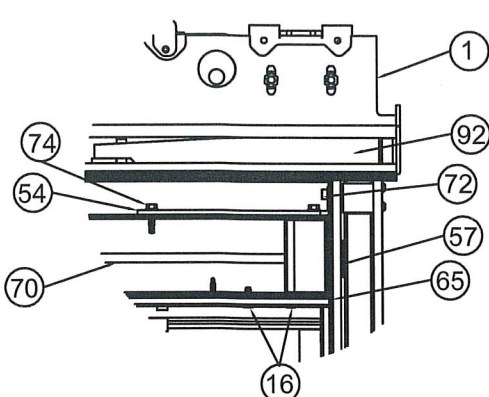
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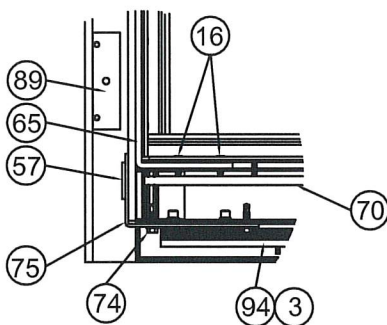
Active Leaf Top Corner- Lead Side



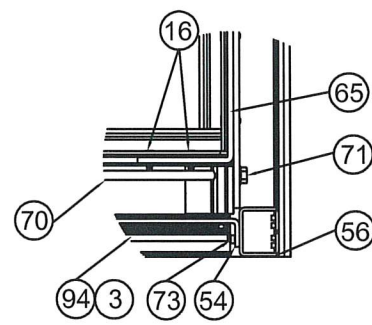
Active Leaf Top Corner-Pivot Side



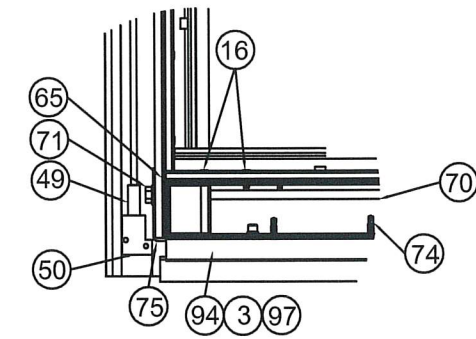
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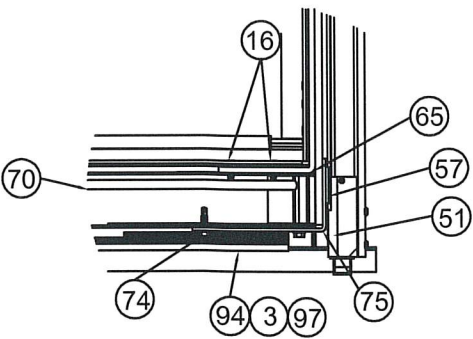
Sidelite Bottom Corner- Pivot Side



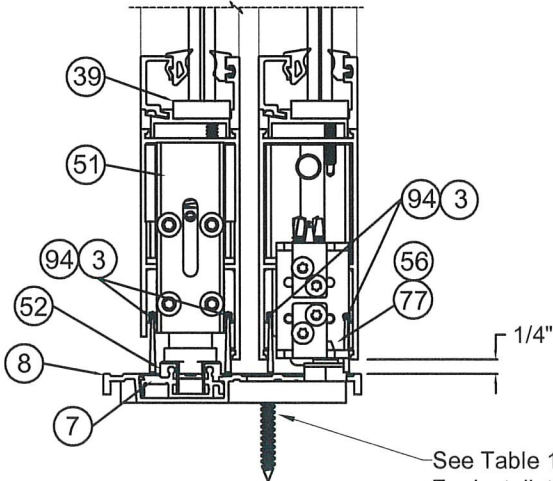
Active Leaf Bottom Corner- Lead Side



Active Leaf Bottom Corner-Pivot Side



Section G-G



SCOTT WOLTERS
FL PE# 62354

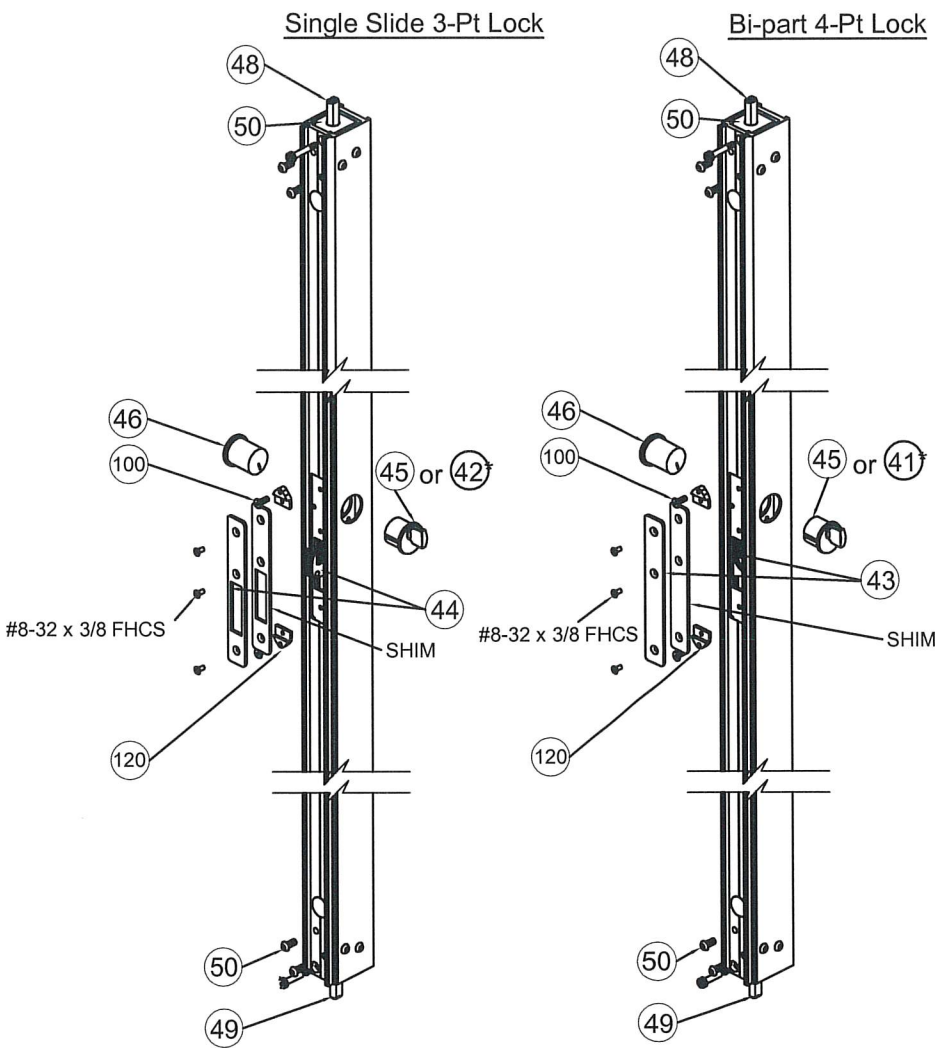
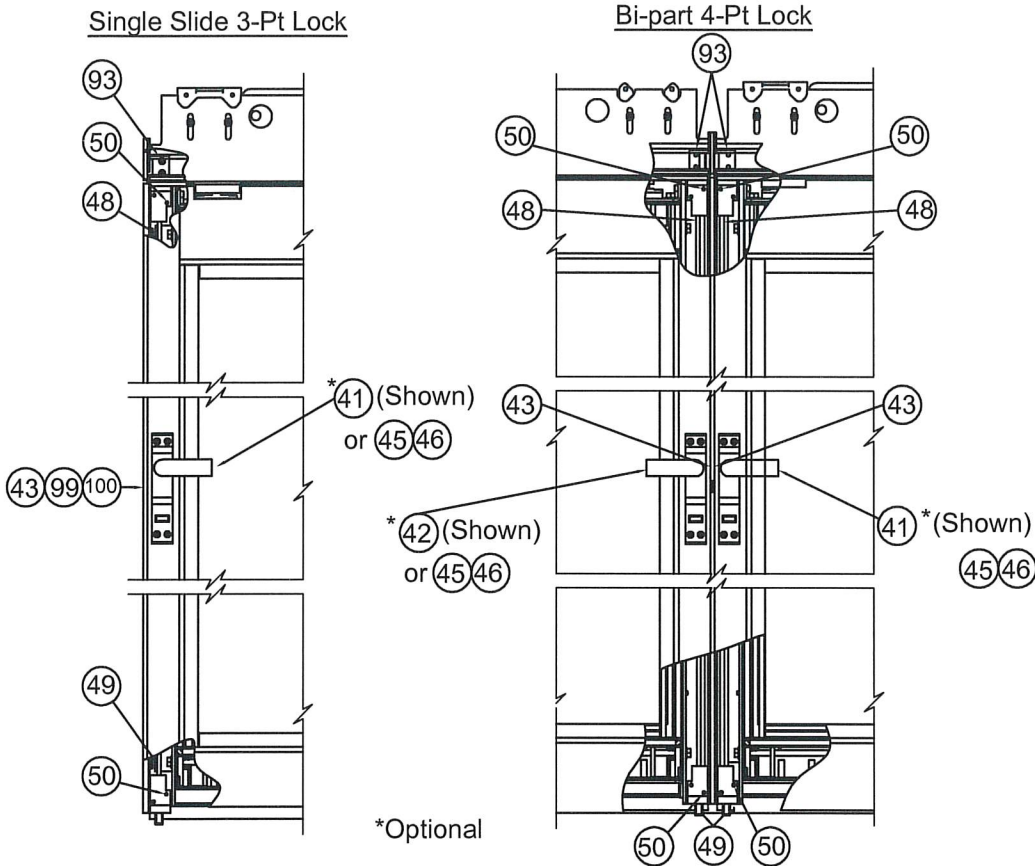
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15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561) 225-1982

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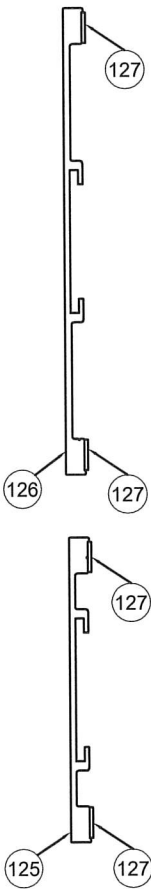
STATE OF
FLORIDA
APR 25 2023

DWG NO.	SL500-R104
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	SHEET NO. 10 OF 21

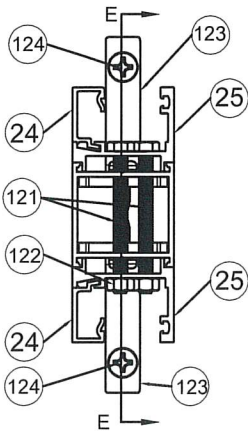
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Rev	Description	Date	Approved
0	Initial Release		SJF



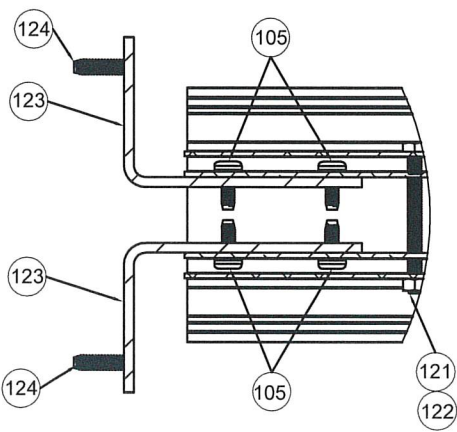
Section E-E
SURFACE APPLIED
MUNTIN



Section D-D
TRUE DIVIDED
MUNTIN



Section E-E
TRUE DIVIDED
MUNTIN



SCOTT WOLTERS
FL PE# 62354

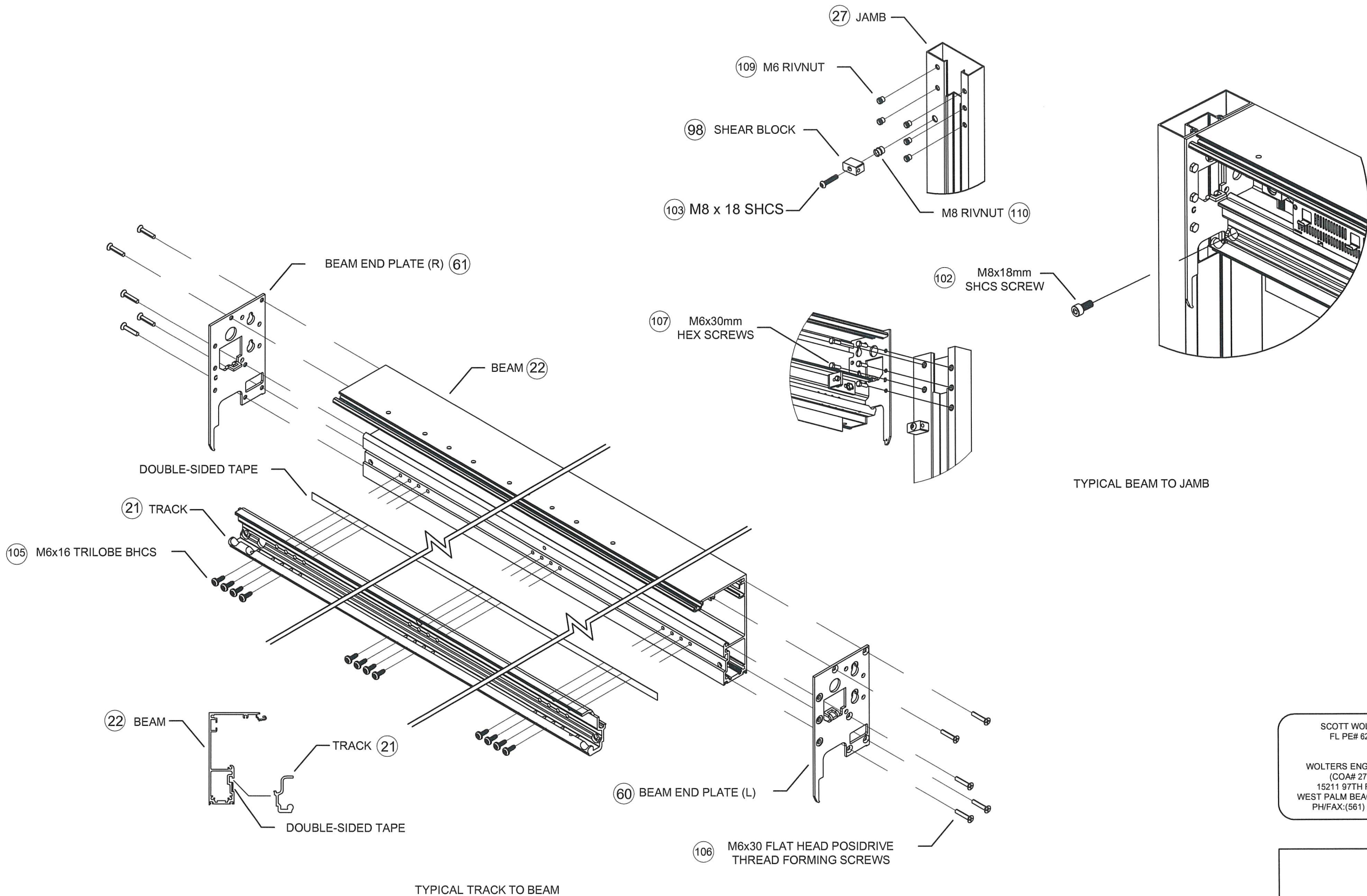
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SHEET DESCRIPTION	SHEET NO. 11 OF 21

Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF



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FL PE# 62354

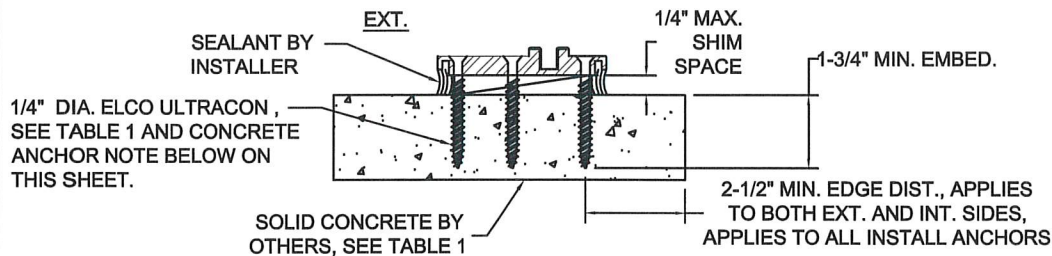
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15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561) 225-1982

SEAL
No 62354

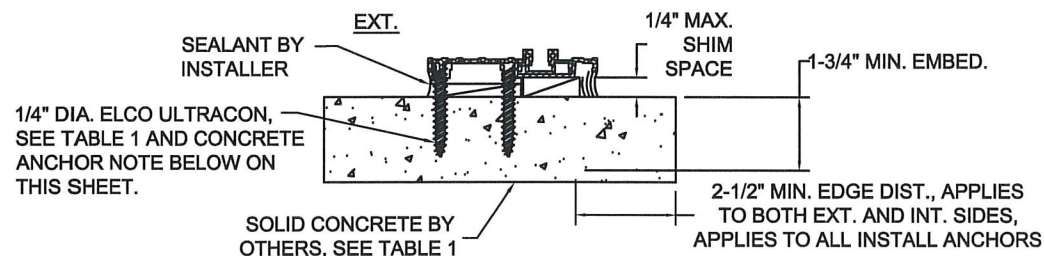
STATE OF
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APR 25 2023

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DRAWN BY	SJF	DATE	7/19/2019
SHEET DESCRIPTION	SHEET NO. 12 OF 21		

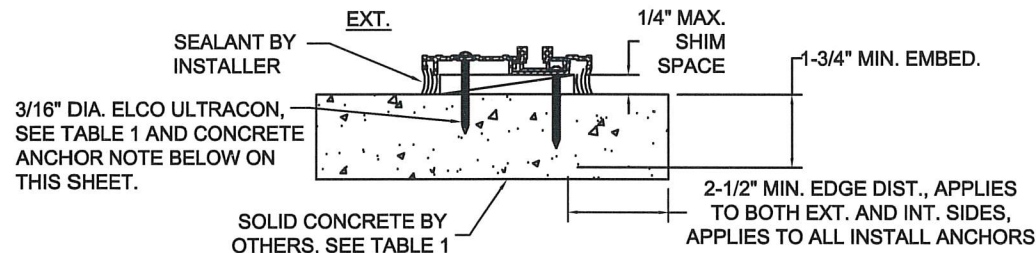
TYPICAL SILL ANCHOR DETAILS IN CONCRETE



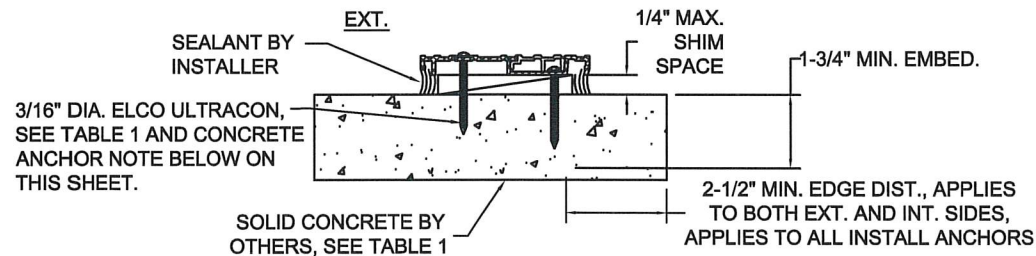
AT PIN GUIDE STRIKES



AT LOCK STRIKE PLATES



AT SIDELITE THRESHOLD

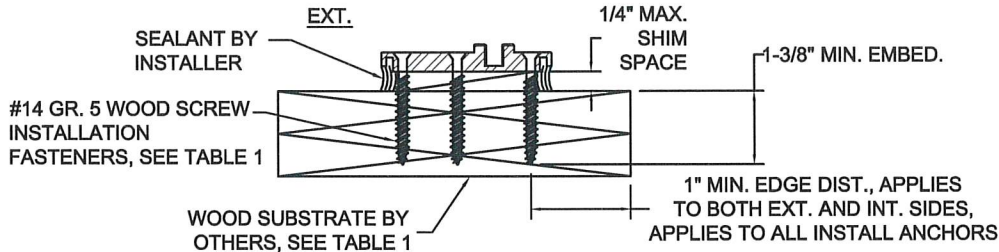


AT OPERABLE THRESHOLD

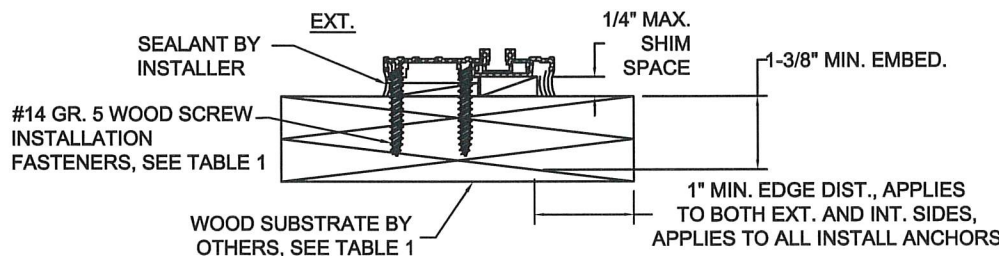
GENERAL ANCHOR NOTES:

1. INSTALL ANCHOR AS INDICATED IN DETAILS ON SHEETS 3 THRU 8 AT EACH LOCATION SHOWN IN THE ELEVATIONS ON SHEETS 3 AND 6.
2. INSTALL SHIMS AT EACH ANCHOR LOCATION WHERE A GAP OF 1/16" OR GREATER EXISTS BETWEEN PRODUCT FRAME AND SUBSTRATE.
3. 1/4" MAX. SHIMS SHALL BE LOAD-BEARING (PLASTIC OR METALLIC) AND CAPABLE OF TRANSFERRING LOADS TO SUBSTRATE.
4. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO, BY OTHERS. FOR ATTACHMENT TO METAL SUBSTRATES ENSURE FULL THREAD ENGAGEMENT THROUGH METAL WALL WITH MIN. 3 THREADS BEYOND.
5. IN CMU (AT JAMBS ONLY) ENSURE 3" MIN. ON-CENTER SPACING BETWEEN ANY TWO INSTALLATION ANCHORS IN JAMB ANCHOR CLUSTERS (SEE VERTICAL SECTION DETAILS ON SHEETS 3 AND 6), AND 6" MIN. ON-CENTER ELSEWHERE AT CMU JAMBS. FOR ALL OTHER ANCHOR/SUBSTRATE TYPES (SEE TABLE 1) ENSURE 1 1/2" MIN. ON-CENTER SPACING BETWEEN ANY TWO INSTALLATION ANCHORS.
6. OPTIONAL (1x MAX) WOOD BUCKS, IF USED, MUST BE ADEQUATELY ANCHORED TO PREVENT INSTALLATION ANCHOR BENDING.

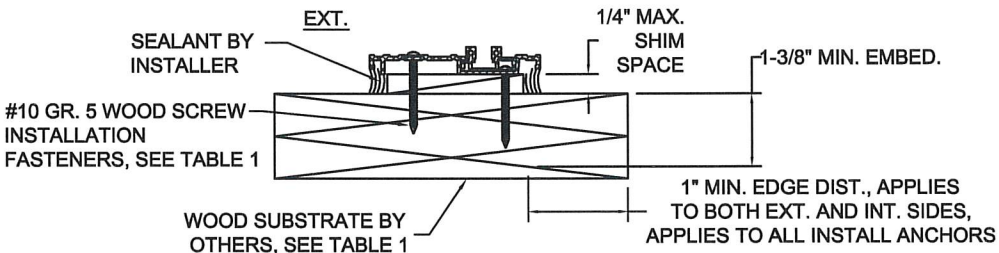
TYPICAL SILL ANCHOR DETAILS IN WOOD



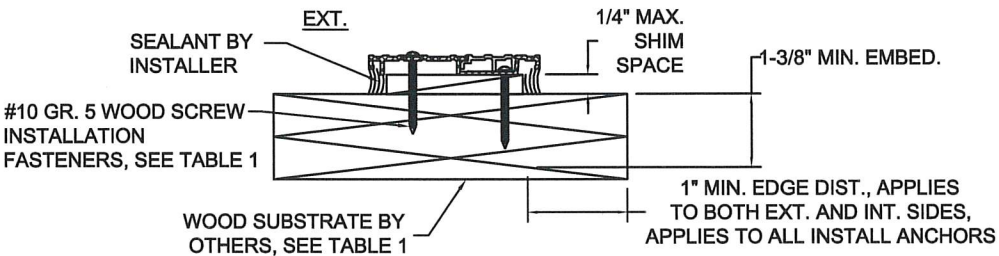
AT PIN GUIDE STRIKES



AT LOCK STRIKE PLATES



AT SIDELITE THRESHOLD



AT OPERABLE THRESHOLD

Revisions

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TABLE 1: INSTALLATION ANCHOR REQUIREMENTS

SUBSTRATE TYPE	ANCHOR TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DISTANCE
CONCRETE (2.85 ksi MIN)	1/4" DIA. ELCO ULTRACON (TYPICALLY) 3/16" DIA. ELCO ULTRACON (AT THRESHOLD ONLY)	1 3/4"	2 1/2"
HOLLOW OR GROUT FILLED CMU (ASTM C90 MIN) (JAMBS ONLY)	1/4" DIA. ELCO ULTRACON	1 3/4"	2 1/2"
2X P.T. WOOD (S.G.=0.55, MIN)	#14 GR. 5 WOOD SCREW (TYPICALLY) #10 GR. 5 WOOD SCREW (AT THRESHOLD ONLY)	1 3/8"	1"
STEEL STUD (16 Ga, 45 ksi MIN)	1/4" DIA. ITW TEKS SELF-DRILLING SCREW	FULL**	1/2"
1/8" ALUMINUM (6063-T5 MIN)	1/4" DIA. ITW TEKS SELF-DRILLING SCREW	FULL**	1/2"

** FULLY PENETRATES METAL WITH 3 THREADS BEYOND

NOTE: ANCHORS ARE FLATHEAD AT ALL PLATE/STRIKE LOCATIONS AND ROUND/PAN/HEX-WASHER HEAD ELSEWHERE

CONCRETE ANCHORS AT THRESHOLD: CONCRETE ANCHORS THAT PENETRATE THE THRESHOLD ONLY ARE 3/16" DIA. ELCO ULTRACONS. ANCHORS THAT PENETRATE DOOR HARDWARE OR STRIKE PLATES ARE 1/4" DIA. ELCO ULTRACONS.

SCOTT WOLTERS
FL PE# 62354WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
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PH/FAX: (561) 225-1982SEAL
No 62354STATE OF
APR 25 2023

DWG NO. SL500-R104

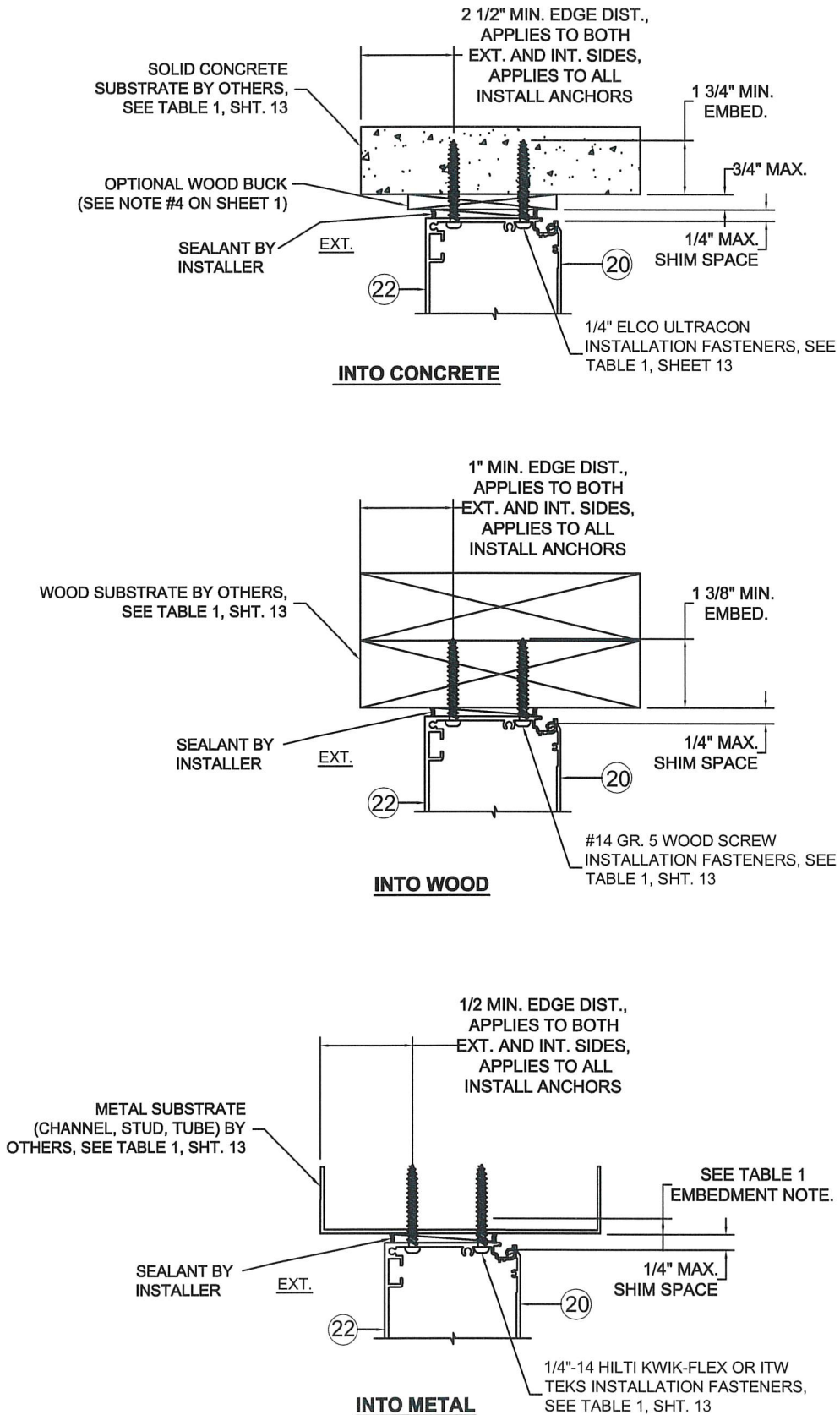
DRAWN BY SJF DATE 7/19/2019

SHEET DESCRIPTION SHEET NO. 13 OF 21

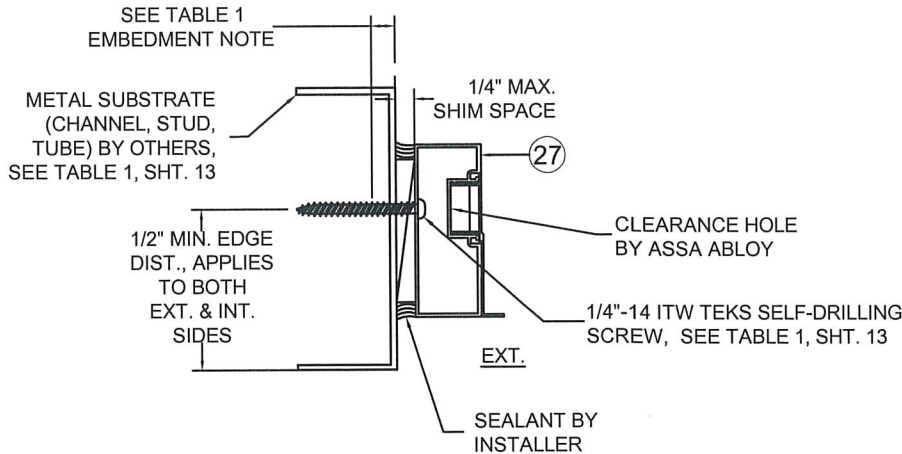
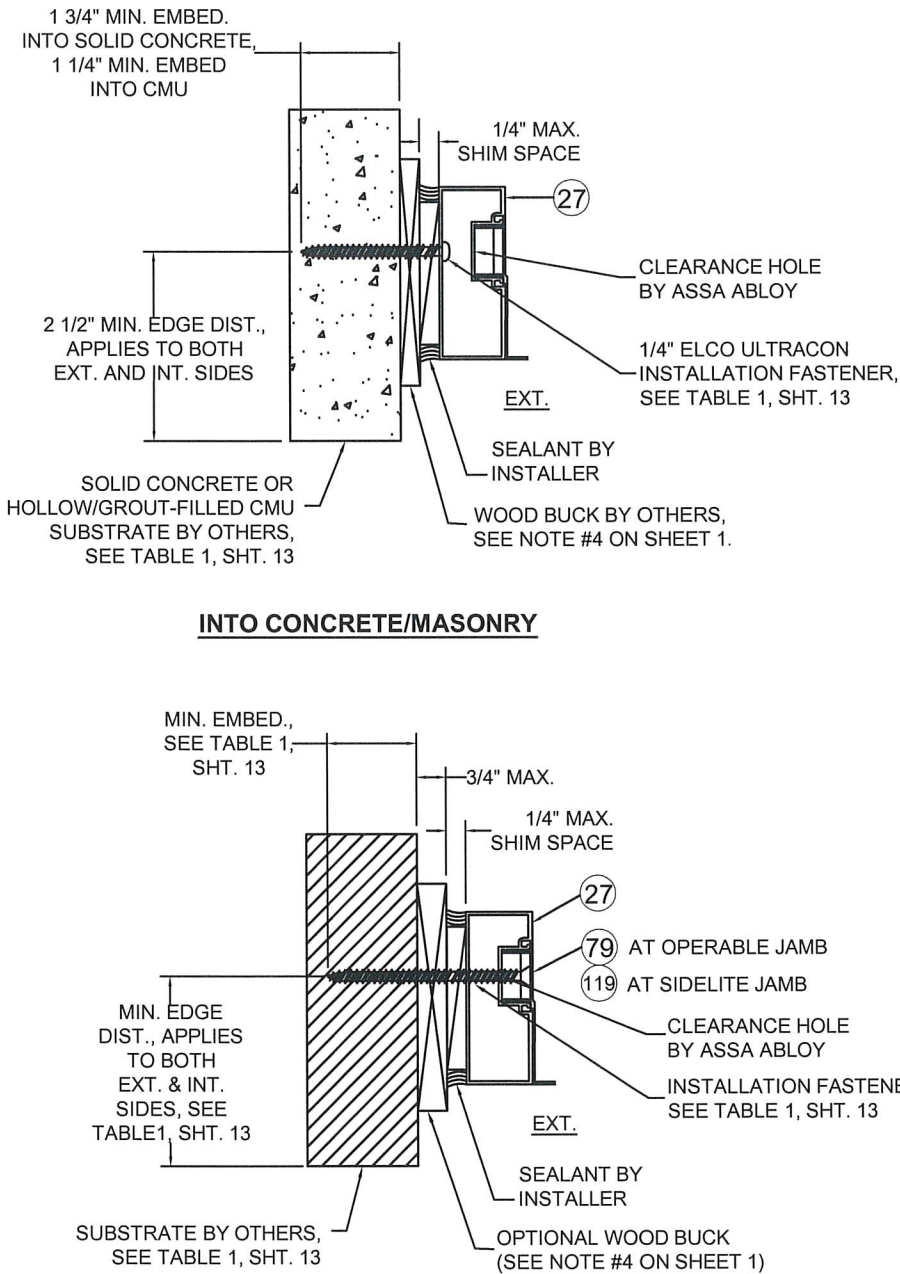
ASSA ABLOY

Revisions			
Rev	Description	Date	Approved
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TYPICAL HEAD ANCHOR DETAILS



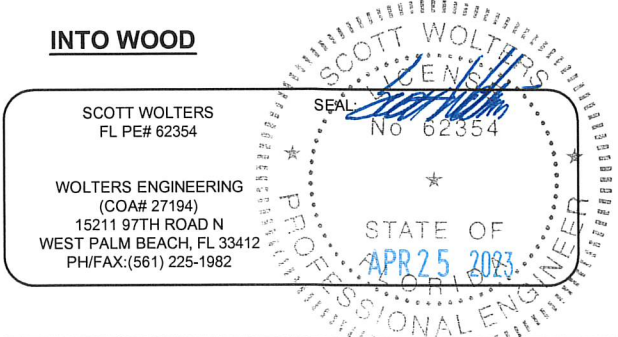
TYPICAL JAMB ANCHOR DETAILS



TYPICAL ALT. JAMB INSTALLATION THRU LOCK PLATE/STRIKE

SEE GENERAL ANCHOR NOTES
AND TABLE 1, SHEET 1

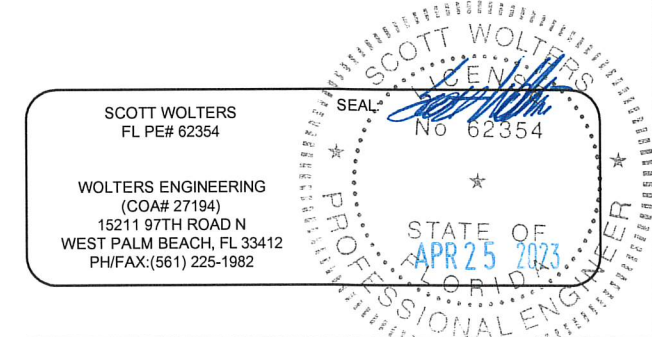
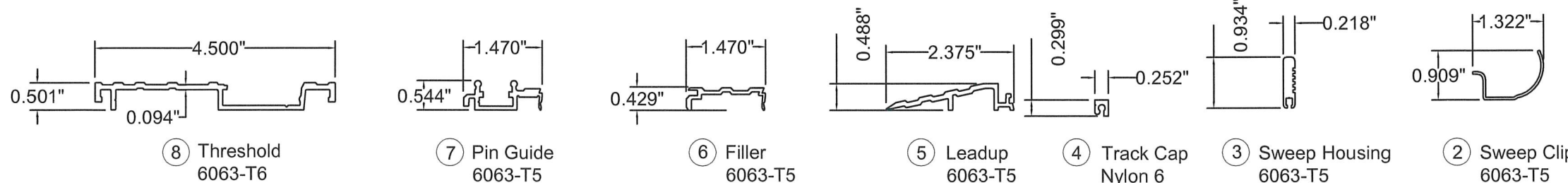
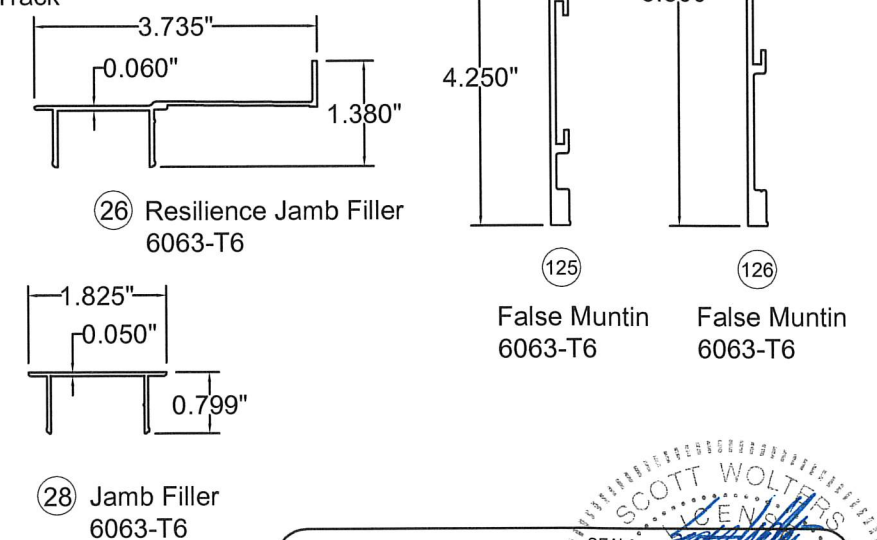
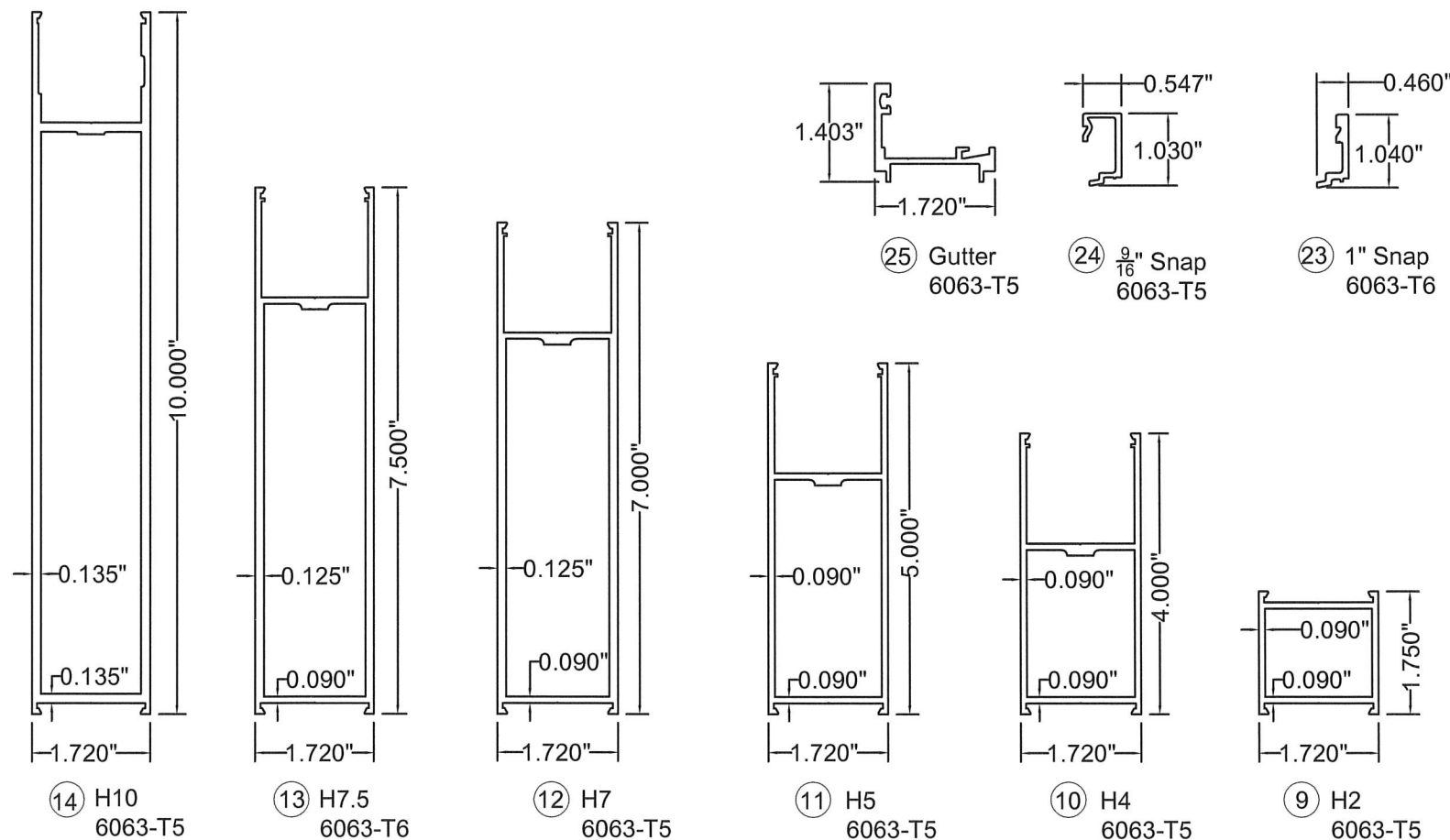
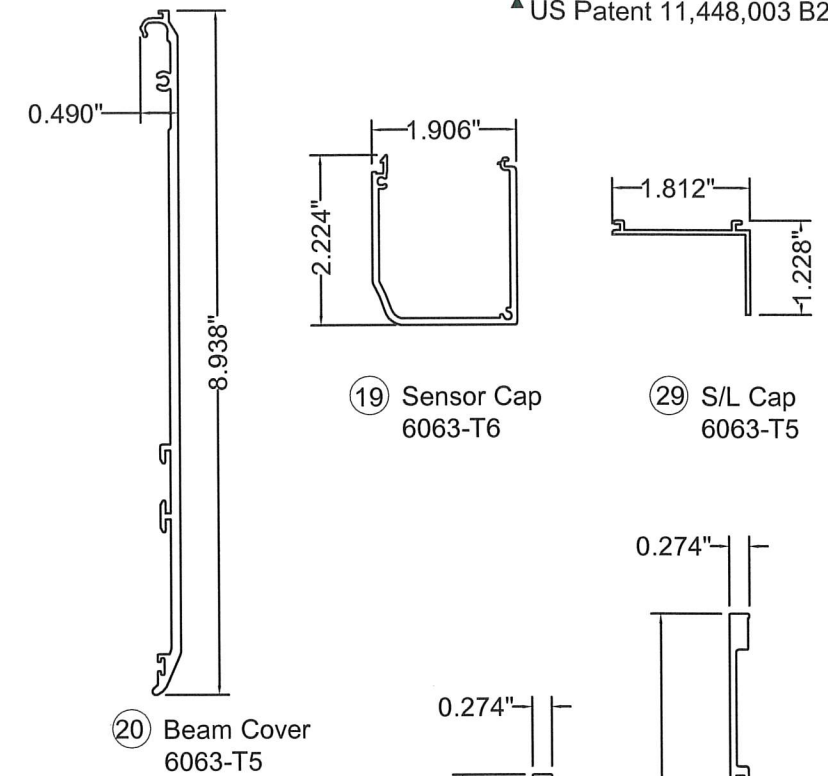
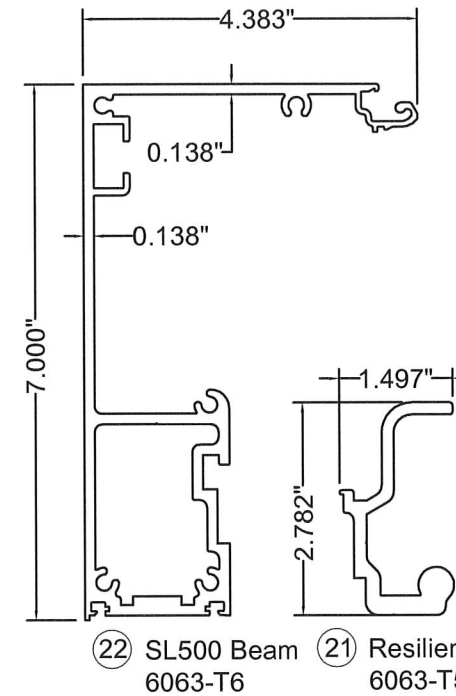
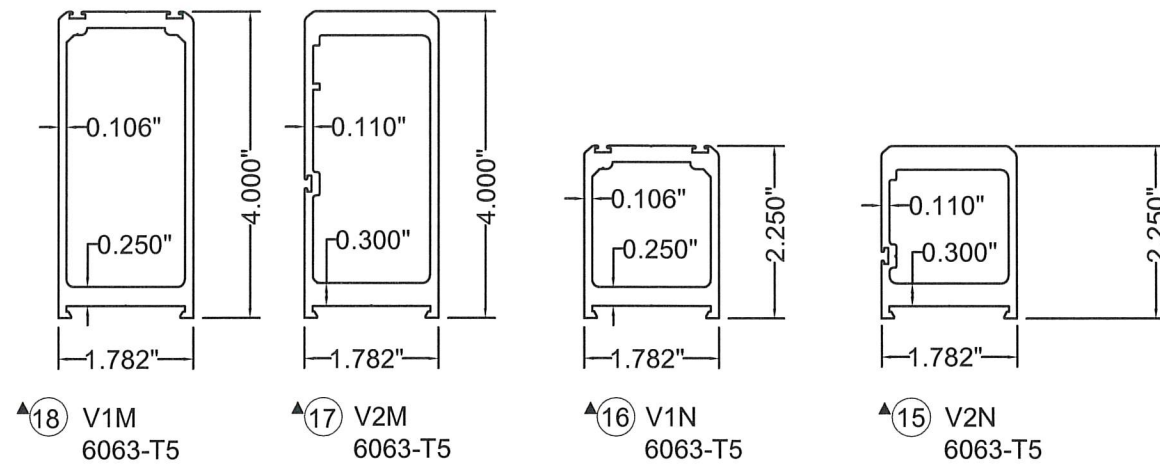
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DWG NO.	SL500-R104
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DATE	7/19/2019
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Rev	Description	Date	Approved
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▲ US Patent 11,448,003 B2



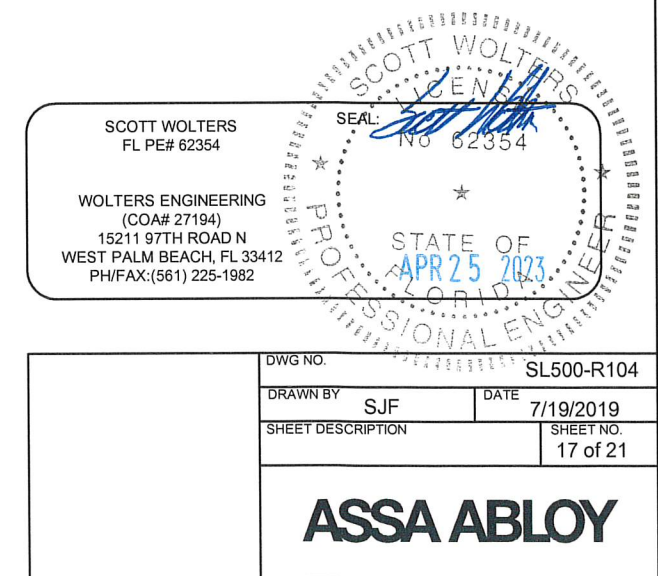
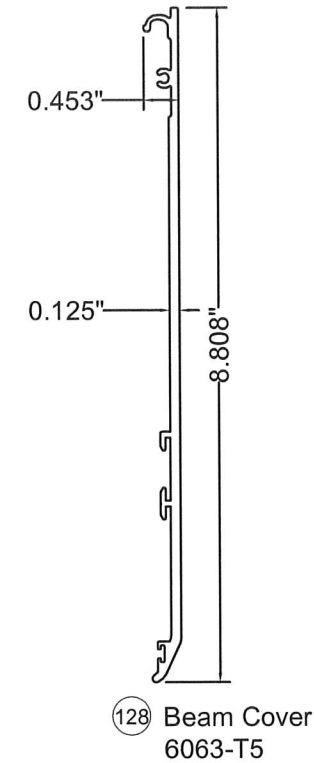
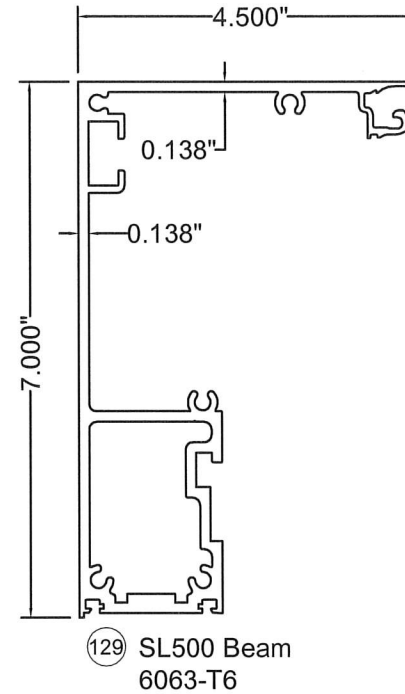
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DRAWN BY	SJF	DATE	7/19/2019
SHEET DESCRIPTION			SHEET NO. 15 OF 21
ASSA ABLOY			

ASSA ABLOY ASSA ABLOY ENTRANCE SYSTEMS 1900 AIRPORT ROAD MONROE, NC 28110 PHONE: 1-866-237-2687			ASSA ABLOY SL500 RESILIENCE R104 SLIDING DOOR SYSTEM BI-PARTING AND SINGLE SLIDING			Revisions			
						Rev	Description	Date	Approved
						0	Initial Release		SJF
1	Carrier	1015669	41	Deadbolt Lever, AR4550, RH, CL (Optional)	US05-0771-01	81	1/4"x 1-3/4" HWH Elco Ultracon Conc. Anchor	1703636	SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX:(561) 225-1982 DWG NO. SL500-R104 DRAWN BY SJF DATE 7/19/2019 SHEET DESCRIPTION SHEET NO. 16 of 21 ASSA ABLOY
2	Sweep Clip	1013780	42	Deadbolt Lever, AR4550, LH, CL (Optional)	US05-0771-03	82	3/16"x 1-3/4" HWH Elco Ultracon Conc. Anchor	1703635	
3	Sweep Housing	US01-0685	43	2 PT Lock	1703500	83	1/4"x 3-1/4" PFH Elco Ultracon Conc. Anchor	1703634	
4	Track Cap	50-20-135	44	3 PT Lock	1703501	84	1/4"-14 x 2" HWH #3 Pt SD ITW TEKS Screw	1703633	
5	Leadup	1013364	45	Thumbturn	50-06-106	85	#14 x 2.5" PH Grade 5 Sheetmetal Screw	1703431	
6	Filler	1013366	46	Cylinder, Key Alike	US06-1404-02	86	#10 x 2" PH Grade 5 Sheetmetal Screw	1703427	
7	Pin Guide	1013866	47	Lock Indicator	50-06-161	87	#14 x 4" RH Grade 5 Sheetmetal Screw	1703494	
8	Threshold	1013363	48	Lock Pin Assembly, Top	1016991	88	#14 x 3in FH Grade 5 Screw	1703426	
9	H2 Muntin Rail (Optional)	1012947	49	Lock Pin Assembly, Bottom	1016992	89	Nut Plate, Interlock	1019247	
10	H4 Bottom Rail	1012942	50	Kit, Lock Pin Guide	1018060	90	Resilience Beam End Cap, Right	1016613	
11	H5 A/L Top Rail	1012944	51	Resilience Pin Guide Assembly	1016658	91	Resilience Beam End Cap, Left	1016614	
12	H7 Bottom Rail	1012945	52	Pin Guide Strike	1016611	92	PSA Arm Kit, HD	1017036	SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX:(561) 225-1982 DWG NO. SL500-R104 DRAWN BY SJF DATE 7/19/2019 SHEET DESCRIPTION SHEET NO. 16 of 21 ASSA ABLOY
13	H7.5 S/L Top Rail	1016075	53	SL500 Resil Ball Catch Kit	1017039	93	Resilience Carrier Lock Strike Assembly	1016637	
14	H10 Bottom Rail	1012946	54	Anti-Twist Bracket	1016628	94	Sweep	US20-1627-02	
15	V2N HD Rail	1018841	55	Top Pivot Assembly	1012549	95	Ball Catch Kit, Carrier Portion, Resilience	US05-1609-01	
16	V1N HD Rail	1018840	56	Bottom Pivot Assembly	1012548	96	Ball Catch Kit, Active Leaf Door Portion, Resilience	1017038	
17	V2M HD Rail	1018843	57	Square Threaded Rod Nut	1016327	97	Sweep Clip	1013780	
18	V1M HD Rail	1018842	58	Kit, Resilience Interlock Bar	1018093	98	Resilience Shear Block	1016612	
19	Sensor Cap	1016738	59	Kit, Interlock Hook	1018059	99	XG Lock Body Mounting Block	1019595	
20	Beam Cover	1016073	60	Resilience Beam End Cap, Left	1016614	100	#10-32 x 1/2" Ultra Low Profile Socket Head Screw	1704073	
21	Resilience Track	1015670	61	Resilience Beam End Cap, Right	1016613	101	XG Muntin 'L' Bracket, Resilience	1019660	
22	SL500 Beam	1010590	62	M6 x 20 Hex Head Screw	93-09-723187	102	M8x40mm BHCS Black	1703691	
23	1" Snap	1015702	63	Tall Weatherstrip	US20-0905-01	103	M8 x 18 SHCS	1703495	SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX:(561) 225-1982 DWG NO. SL500-R104 DRAWN BY SJF DATE 7/19/2019 SHEET DESCRIPTION SHEET NO. 16 of 21 ASSA ABLOY
24	9/16" Snap	1015701	64	Seal	US20-1658-01	104	#10-16 x 5/8" PPH Tek Screw	53-09-003	
25	Gutter	1015700	65	7.5" Rail Clip	1019594	105	M6x16mm Trilobe BHCS	1703493	
26	Resilience Jamb Filler	1016844	66	5" Anti-Twist Assembly Clip	1013803-3	106	M6 x 30 FH Threadforming Screw	1701704	
27	Jamb	US01-0931	67	4" Anti-Twist Assembly Clip	1013803-2	107	M6x30mm HHCS	93-09-723187	
28	Jamb Filler	US01-0933	68	7" Anti-Twist Assembly Clip	1013897-2				
29	S/L Cap	1008138	69	10" Anti-Twist Assembly Clip	1013897-1	109	M6 Steel Rivnut	US09-1560-01	
30	Wedge Seal (9/16" L.D. glass)	1703423	70	Rod,Threaded,3/8"	50-09-100	110	M8 Steel Rivnut	1703429	
31	Fixed Seal (1" L.D. glass)	1703638	71	Nut,3/8-16 Whiz flange zinc	50-09-132				
32	Resilience Crash Bar Kit (Optional)	1017922	72	M6x12mm SHCS BLK Zinc	1703632				
33	Wedge Seal (9/16" L.D. glass)	1703422	73	M5x8mm BHCS	1703508				
34	Fixed Seal (9/16" L.D. glass)	1703421	74	Screw, HWH, 1/4-14x1"TEK	US09-1294-01				
35	Wedge Seal (9/16" L.E. & 1" L.D. glass)	1703423	75	Anti-Twist Bracket	1019248				
36	Fixed Seal (9/16" L.E. & 1" L.D. glass)	1703638							
37	Wedge Seal (1/4" glass)	1703425	77	Resilience S/L Pivot Base Kit	1019262				SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX:(561) 225-1982 DWG NO. SL500-R104 DRAWN BY SJF DATE 7/19/2019 SHEET DESCRIPTION SHEET NO. 16 of 21 ASSA ABLOY
38	Fixed Seal (1/4" glass)	1703424	78	Kit, Resilience Jamb Interlock Hook	1018092				
39	Glass Setting Block	1016294	79	Resilience Jamb Lock Strike	1017900				
40	M6 x 30 FH Threadforming Screw	1701704	80	Lock Plate	US04-0948-01				
Pos.	Description	Part.no.	Pos.	Description	Part.no.				



ASSA ABLOY
SL500 RESILIENCE R104 SLIDING DOOR SYSTEM
BI-PARTING AND SINGLE SLIDING

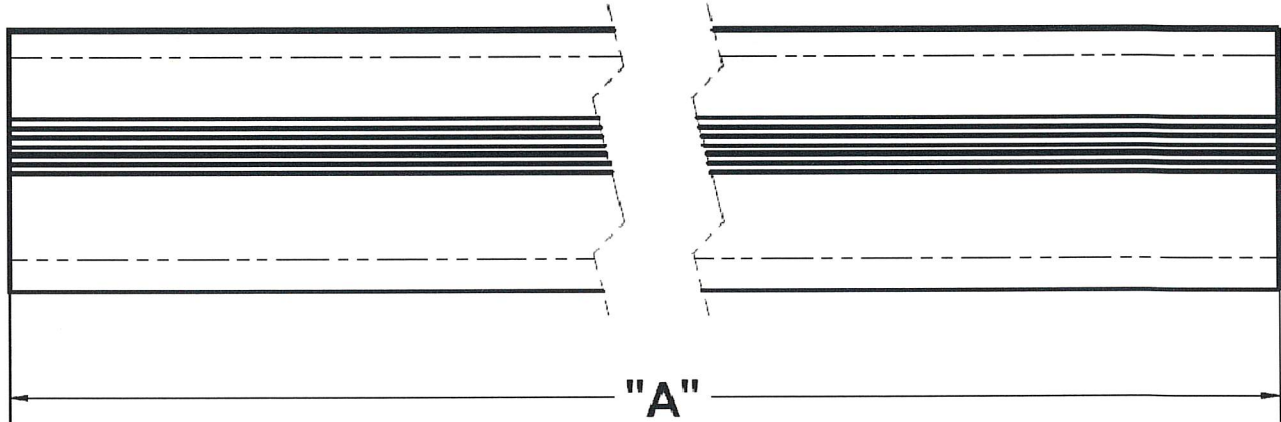
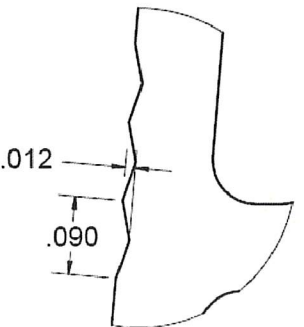
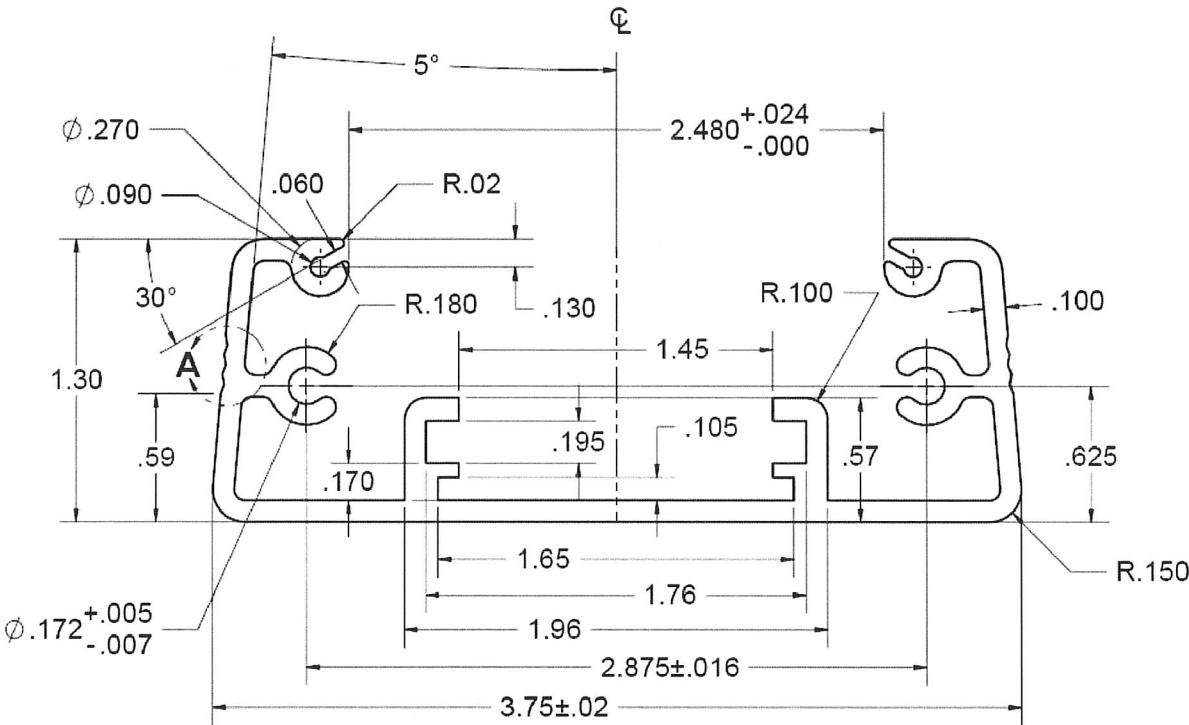
Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF

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Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF

ASSA ABLOY SL500 RESILIENCE FULL BREAKOUT LARGE & SMALL MISSILE IMPACT LEVEL D AND LEVEL E DOOR SYSTEM ITEM NO. 115 - ADAMS RITE G86 (8600) EXIT DEVICE EXTRUSION DETAILS - INTERIOR EXTRUSION

EXTRUSION
PUSH BAR G8X



P/N	DIM "A"
24-0870-30-XXX	26.125
24-0870-36-XXX	32.125
24-0870-42-XXX	38.125
24-0870-48-XXX	44.125

- POST BAKE: NONE.
- FINISH: 60 RMS OR BETTER.
- HEAT TREAT: NONE.
- MATERIAL: 6063-T6 ALUMINUM. (13'-8" LONG).
- BREAK ALL SHARP EDGES.
- ALL DIMENSIONS ARE FINISHED DIMENSIONS.

NOTES: UNLESS OTHERWISE SPECIFIED.

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SEAL

NO 62354

STATE OF
APR 25 2023

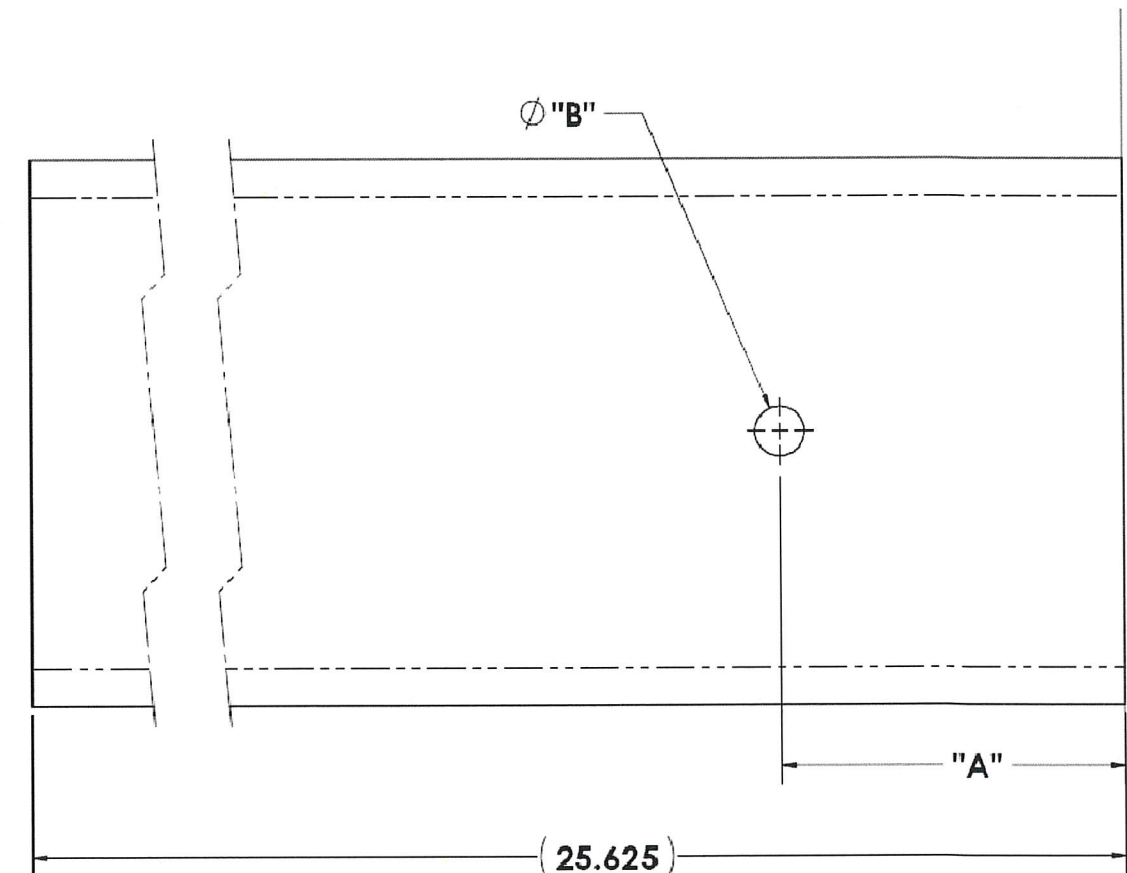
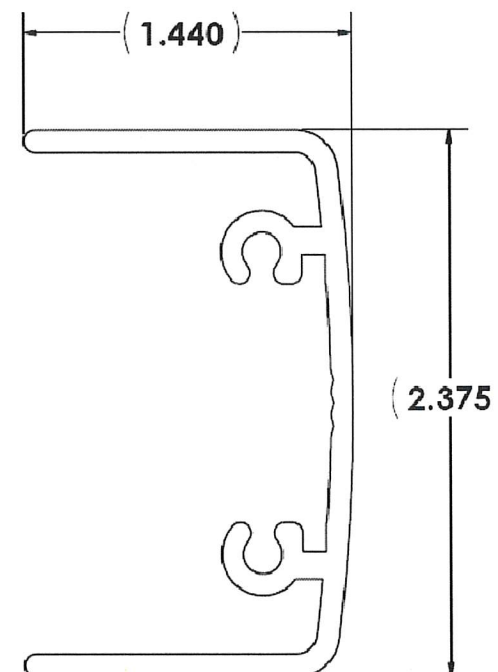
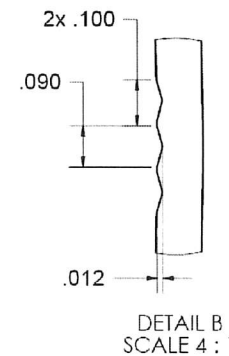
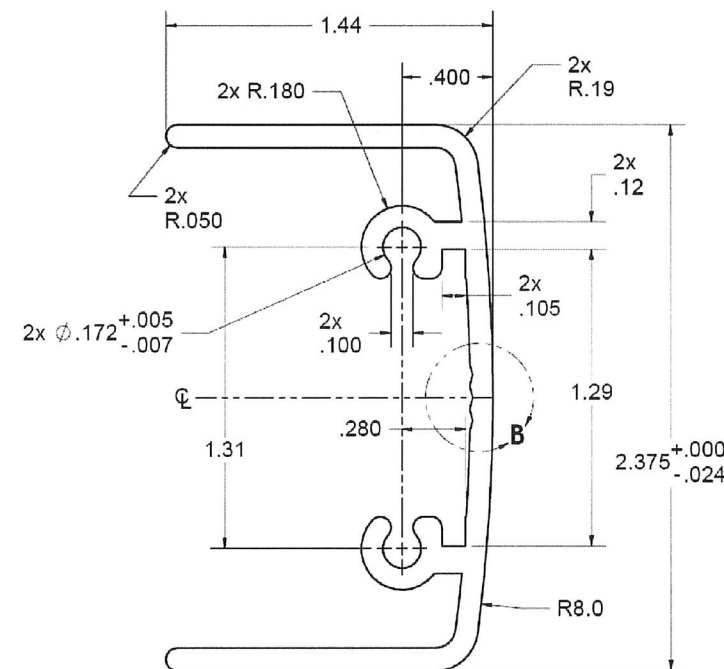
PROFESSIONAL ENGINEER

DWG NO.	SL500-R104
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	SHEET NO. 18 of 21

Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF

**ASSA ABLOY SL500 RESILIENCE FULL BREAKOUT
LARGE & SMALL MISSILE IMPACT LEVEL D AND LEVEL E DOOR SYSTEM
ITEM NO. 115 - ADAMS RITE G86 (8600) EXIT DEVICE EXTRUSION
DETAILS - EXTERIOR EXTRUSION**

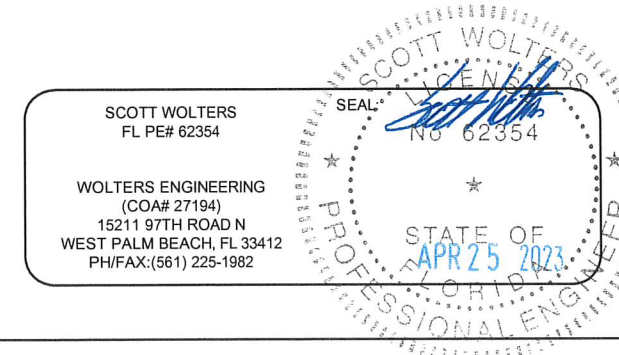
EXTRUSION
PUSH BAR G8X



6. POST BAKE: NONE.
5. FINISH: 60 RMS OR BETTER.
4. HEAT TREAT: NONE.
3. MATERIAL: 6063-T6 ALUMINUM. (13'-8" LONG).
2. BREAK ALL SHARP EDGES.
1. ALL DIMENSIONS ARE FINISHED DIMENSIONS.

NOTES: UNLESS OTHERWISE SPECIFIED.

P/N	DIM "A"	DIM "B"
24-0871-XXX	1.500	0.218
24-0871CXXX	2.375	1.375



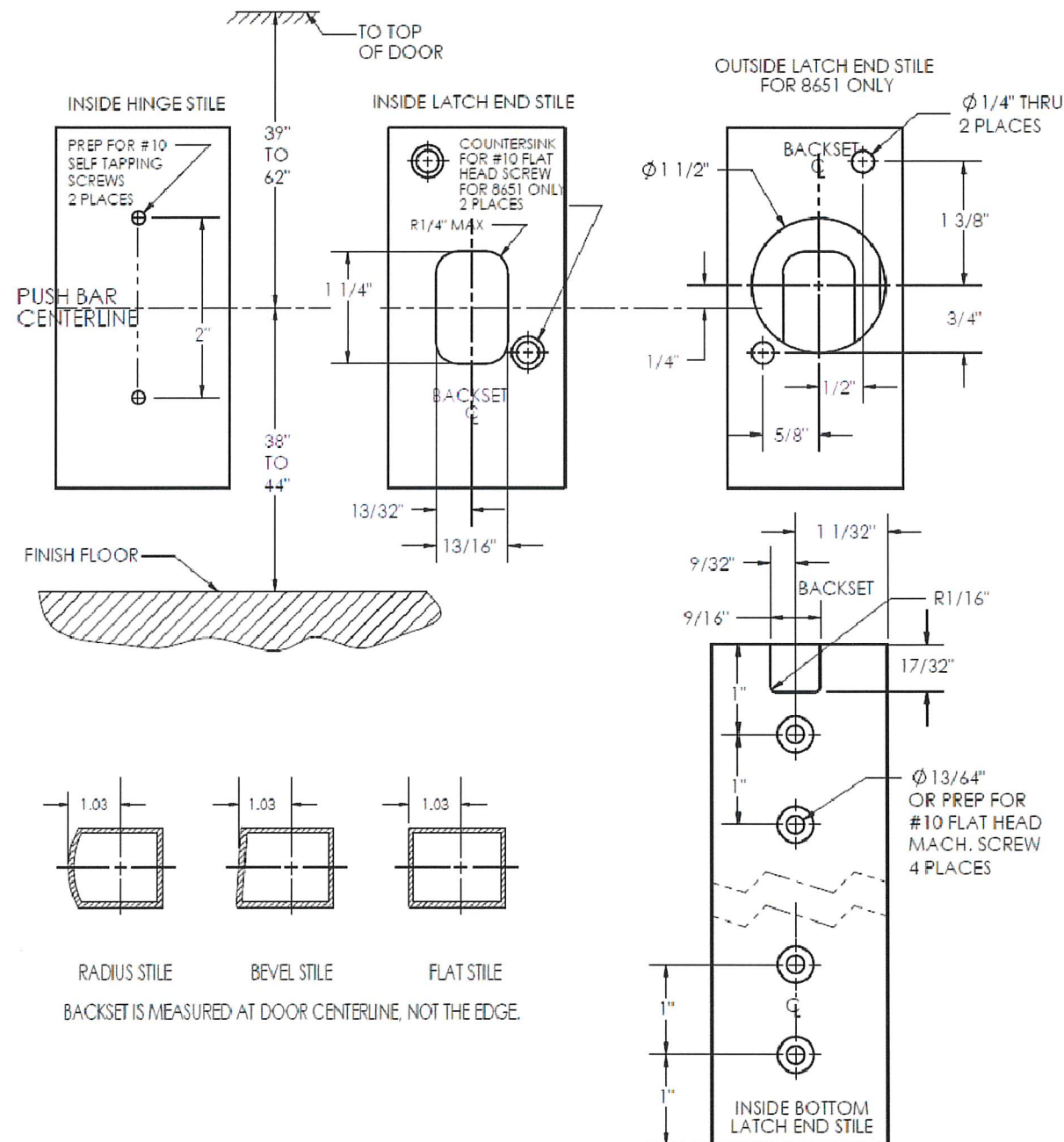
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ASSA ABLOY

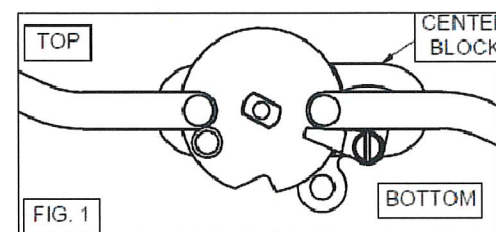
Revisions			
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ASSA ABLOY SL500 RESILIENCE FULL BREAKOUT LARGE & SMALL MISSILE IMPACT LEVEL D AND LEVEL E DOOR SYSTEM ITEM NO. 115 - ADAMS RITE G86 (8600) EXIT DEVICE INSTALLATION DETAIL - SHEET 1

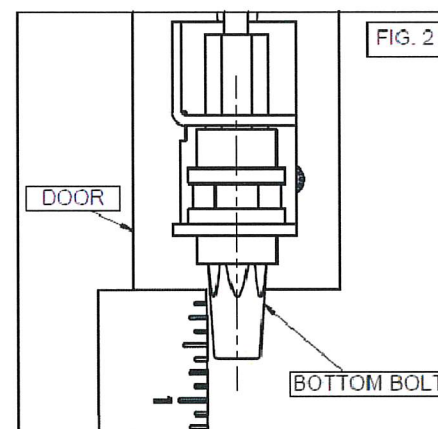
1. Prepare doors as shown. This product must be installed according to all applicable building and life safety codes.



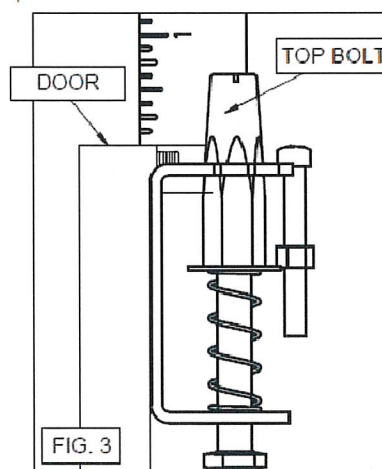
2. Pre-adjust rod assembly.
a. Lay rod assembly on the face of the door with center block protruding into installation hole.
b. Fully extend rods as shown.



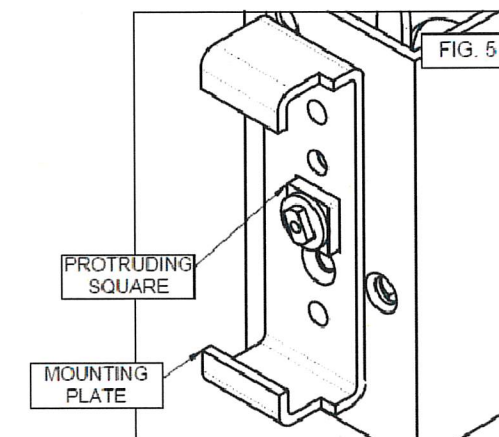
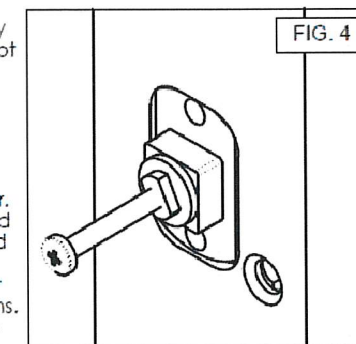
- c. Adjust bottom bolt for 5/8\" projection from bottom of door.



- d. Set the top bolt for 5/8\" projection from top of door.



3. Install rod assembly
Note: Be careful not to bend the rods when handling.
a. Turn over and insert rod assembly into door from the top of the door.
b. The bolts should extend beyond the stile.
4. Cutting the bar for custom door widths.
a. The push bar is the correct length for a minimum door width of 30\" and does not require cutting.
b. The back bar comes in two standard lengths for 48\" and 36\" doors. For other door widths, the back bar and cover strip needs to be cut. You will need to cut the same amount from both the back bar and cover strip. And it is recommended to cut them at the same time using a fine tooth blade or panel saw blade. When measuring the back bar length, make sure it will overlap the vertical stiles by atleast 1/8\" on both sides. The mounting plates on either side are meant to pinch the back bar against the stiles to prevent noise.
5. Insert the back bar onto the scissor cartridge from the scissor end and slide up to within 2\" of the lock end.
6. Secure center block
a. You may have to pull bottom bolt down to align center block with cutout.
b. Install a screw #6-32x2\" into the center block as shown to aid in pulling and holding the center block into position.
c. Locate the center block in the rectangular hole.
d. If you are installing an exterior key cylinder, see step 20.
e. Align the protruding square of the center block with the square hole in mounting plate and place onto the center block.



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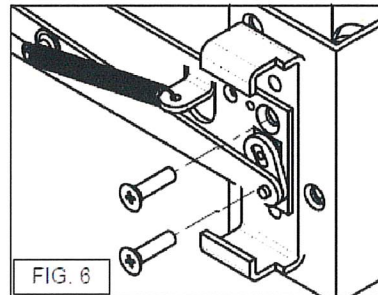
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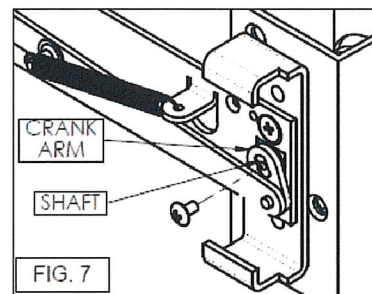
Rev	Description	Date	Approved
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ASSA ABLOY SL500 RESILIENCE FULL BREAKOUT LARGE & SMALL MISSILE IMPACT LEVEL D AND LEVEL E DOOR SYSTEM ITEM NO. 115 - ADAMS RITE G86 (8600) EXIT DEVICE INSTALLATION DETAIL - SHEET 2

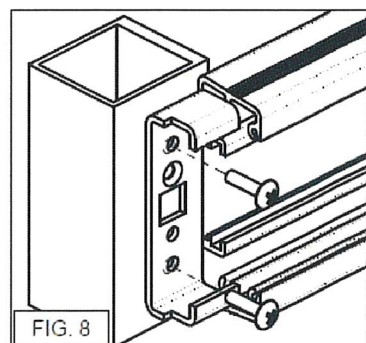
- f. Place scissor cartridge on center block and secure with two 10-32 x 3/4" flat head machine screws.



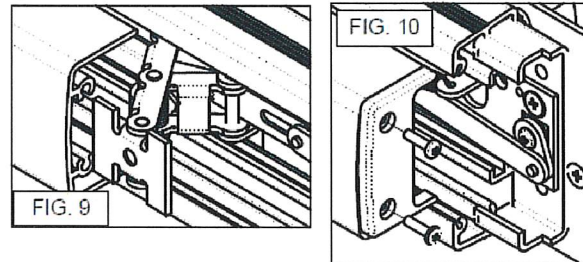
7. Secure crank arm
a. Remove helper screw.
b. Align crank arm with shaft. You may have to operate the push bar scissors to align tab with slot.
c. Secure with one 6-32 x 1/4" truss head machine screw.



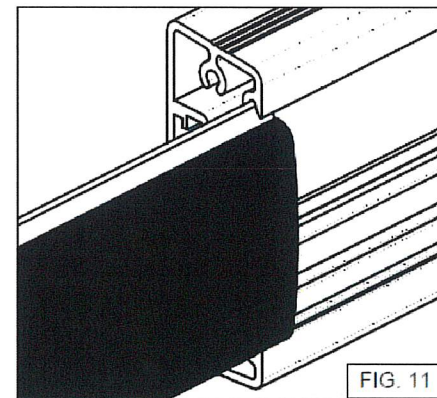
8. Insert mounting plate from the hinge side onto the back bar and secure with two 10-32 x 3/4" self-tapping screws on the triangle side stile.



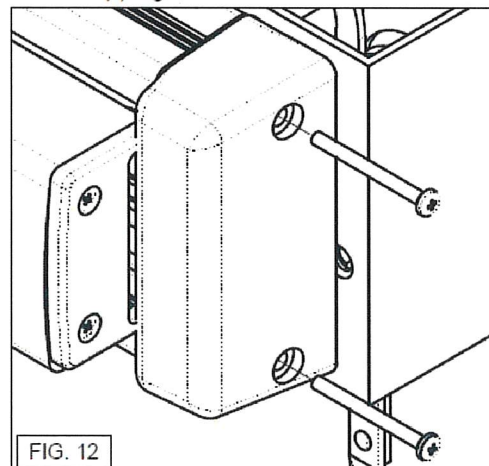
9. Insert push bar and secure end caps with four 10-32 x 1/2" self-tapping screws.



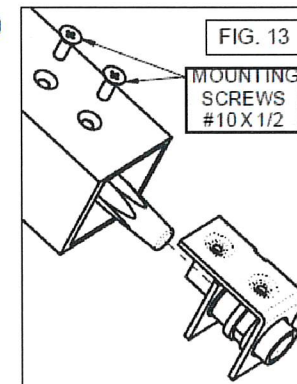
10. Insert cover strip into back bar. Push in until flush with back bar extrusion.



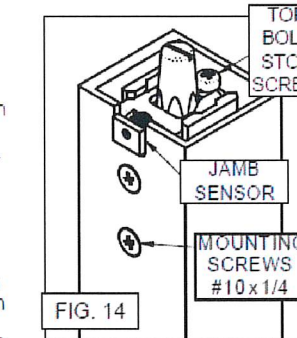
11. Install base caps and secure with four 10-32 x 2" self-tapping screws.



12. Insert bottom bolt (Fig. 13) guide with the plastic guide towards the bottom. And secure with two 10-32x1/2" flat head machine screws. The bottom screw will lock the bottom bolt adjustment, leave this screw loose until final adjustment.



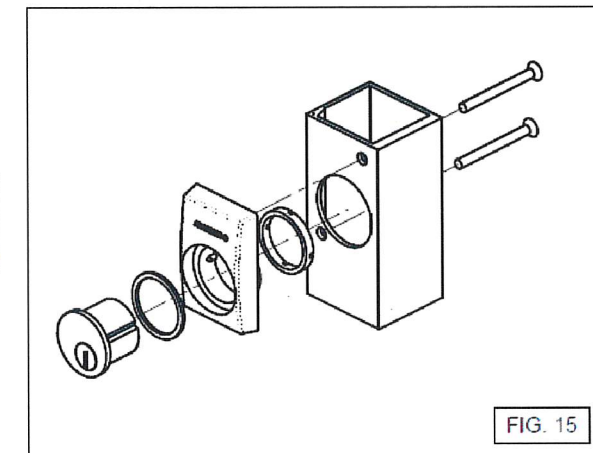
13. Secure top latch (Fig. 14) assembly
a. If necessary, depress the jam sensor to release the top bolt.
b. Secure with two 10-32 x 1/4" flat head machine screws.



14. Check operation:
a. Fully depress the push bar and release.
b. Top bolt will retract & latch.
c. If it doesn't hold - adjust top bolt stop screw out until top bolt is retained.
d. When the push bar is completely pushed in and then released, you should see about 1/16" movement of the top bolt.

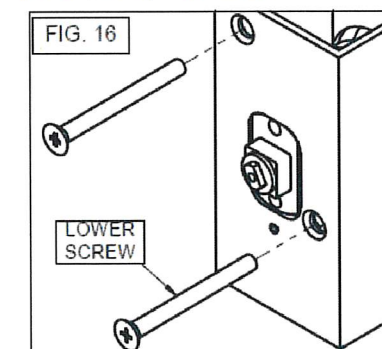
15. Check operation: push top jam sensor.
a. Top bolt will project.
b. If it doesn't - check rods for binding.
16. Now install the door into the frame.
17. Mark the locations for the bolt holes very carefully.
a. Misalignment of these holes will prevent the bolts from fully traveling into the deadlocked position.
b. Don't forget to allow for weather stripping.
18. Drill Ø9/16" holes where required.
19. Now close the door and repeat step 13 - check operation.
20. If you have excessive door gaps at the top or bottom, you may adjust the bolts for greater engagement with the header or threshold.
a. Open the door.
b. Top Adjustment:
i. Measure the door gap at the header. (example: 1/4")
ii. Add to this measurement 1/2" (example: 1/4" + 1/2" = 3/4")
iii. Push in push bar to retract the top latch.
iv. Adjust the top bolt to extend above the door by sum above. (example: 3/4")
v. Repeat step 14.
c. Bottom Adjustment:
i. Loosen the bottom mounting screw of the bottom bolt guide.

- ii. Turn the bolt until there is approximately 1/16" to 1/8" clearance.
iii. Secure the bottom mounting screw.
21. Installing Key Cylinder. (Fig. 15)
a. Once you have completed Step 5, assemble the cylinder escutcheon as shown using the appropriate number of spacers to prevent



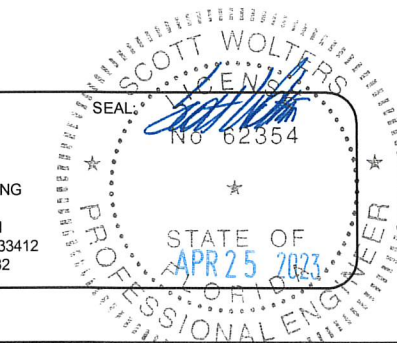
the cylinder cam from bottoming out on the center block assembly.

- b. Secure the cylinder escutcheon assembly to the stile with the 2" long flat head screws provided. Note: the lower screw nests into a boss in the center block. (Fig. 16)
c. Once the installation is complete, check operation by turning the key a quarter turn counter clockwise to 'open' the door. Remove the key and close the door, it should lock.
d. To dog the bolts 'open', hold the door open and turn the key clockwise until stop. Check by closing the door, it should remain unlocked. To reset the lock from the dogged position, use the key to 'open' the door.



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