



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

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

Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF
1	Added Glass Note on Sheet 5.	10/18/19	SJF
2	Notes changed, was 21 pages	9/4/26	SS

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, INCLUDING THE HVHZ PROVISIONS. GLASS TYPES 1-3 ARE LARGE AND SMALL IMPACT RESISTANT, AND DO NOT REQUIRE SHUTTERS IN WINDBORNE DEBRIS REGIONS. GLASS TYPE 4 IS NOT IMPACT RESISTANT. IMPACT RESISTANT SHUTTERS ARE REQUIRED IN WINDBORNE DEBRIS REGIONS.
2. MAX. DESIGN PRESSURES ARE LISTED ON SHEET 4.
3. WATER INFILTRATION: THIS DOOR SYSTEM HAS TWO APPROVED CONFIGURATIONS PER FBC 9TH EDITION SECTION 1709.5.1.
- A. BASE DOOR (NO LWI KIT): NOT TESTED OR RATED FOR WATER INFILTRATION RESISTANCE. PERMITTED ONLY IN NONHABITABLE AREAS WHERE THE DOOR ASSEMBLY AND AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION (EXCEPTION 1). AN OVERHANG ALONE DOES NOT QUALIFY THE BASE DOOR.
- B. DOOR WITH LWI KIT: LABELED WITH A LIMITED WATER (LW) RATING PER AAMA/WDMA/CSA 101/I.S.2/A440. PERMITTED WHERE THE OVERHANG (OH) RATIO IS EQUAL TO OR GREATER THAN 1 (EXCEPTION 2). OH RATIO = OH LENGTH / OH HEIGHT. SEE FBC SECTION 1709.5.1 EXCEPTION 2 FIGURES A AND B FOR OH LENGTH. THE LWI KIT MUST BE INSTALLED FOR THIS EXCEPTION TO APPLY.
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 17.
5. ANCHOR TYPE, SIZE, SPACING, AND EMBEDMENT SHALL BE AS LISTED IN THE ANCHOR CHART ON SHEET 17, 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.

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.

CORNER CONSTRUCTION:

5. FRAME CORNERS ARE SQUARE CUT AND MECHANICALLY FASTENED AT THE HEAD WITH M6x30 SCREWS USING A BEAM END PLATE (SEE SHEET 16),
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.

DESIGN PRESSURE	IMPACT RATING
SEE TABLES ON SHEET 4	SEE TABLES ON SHEET 4 AND GLAZING DETAILS ON SHEET 5

Sheet

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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

Bi-Part Section Views - Water Infiltration

Bi-Part Head and Sill Anchoring Locations - Water Infiltration

Single Slide Section Views

Single Slide Head and Sill Anchoring Locations

Single Slide Section Views - Water Infiltration

Single Slide Head and Sill Anchoring Locations - Water Infiltration

Door Connections and Head Section Views

Locking Details, Muntin Details

Frame Connection Details

Installation Anchor Table

Threshold Anchoring Details

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

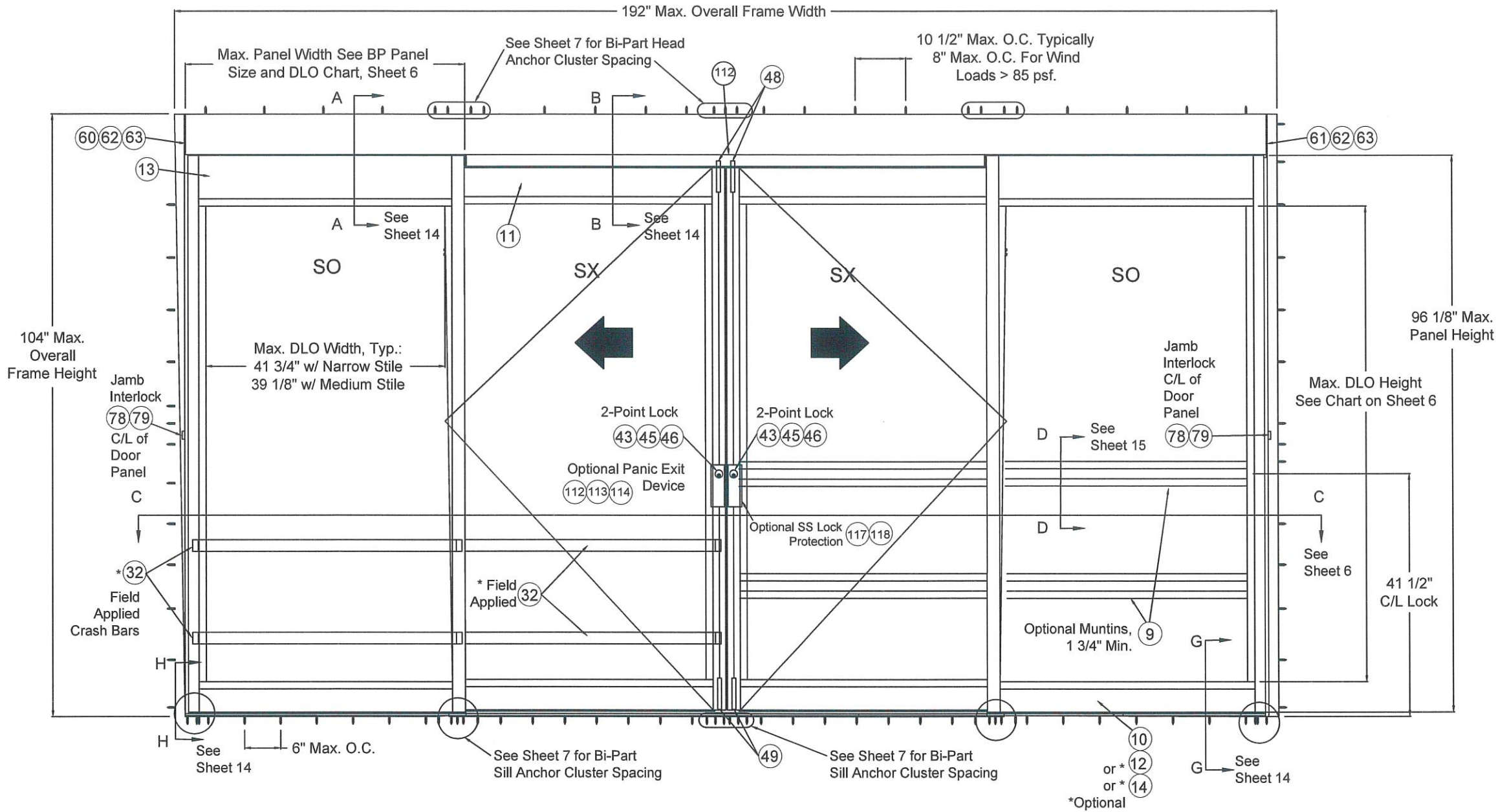


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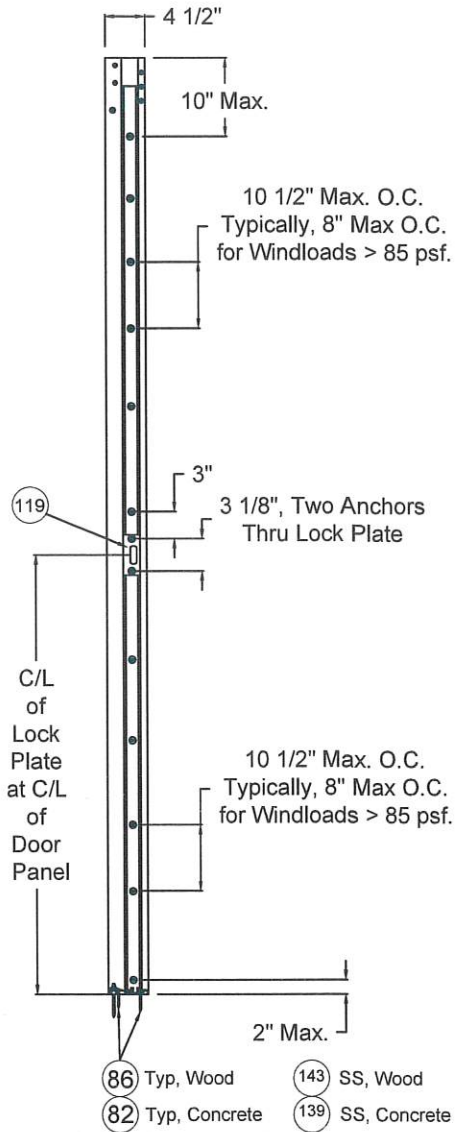
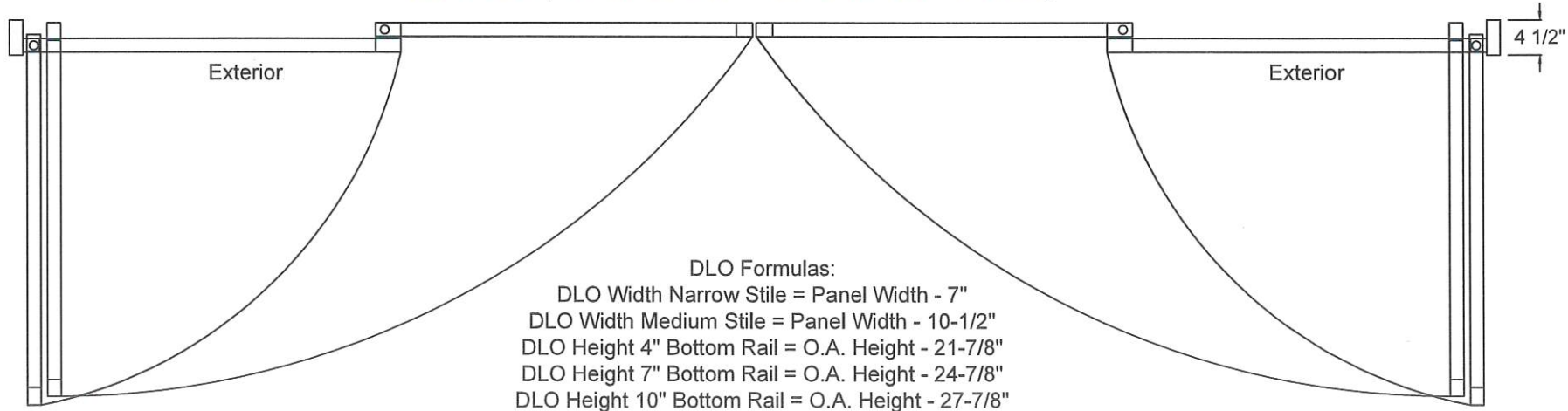


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SHEET DESCRIPTION				SHEET NO.
				1 OF 26
ASSA ABLOY				

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BP FBO (4 Panels Bi-Part Full Breakout)



SIDELITE JAMB
(TYP. BOTH JAMBS)

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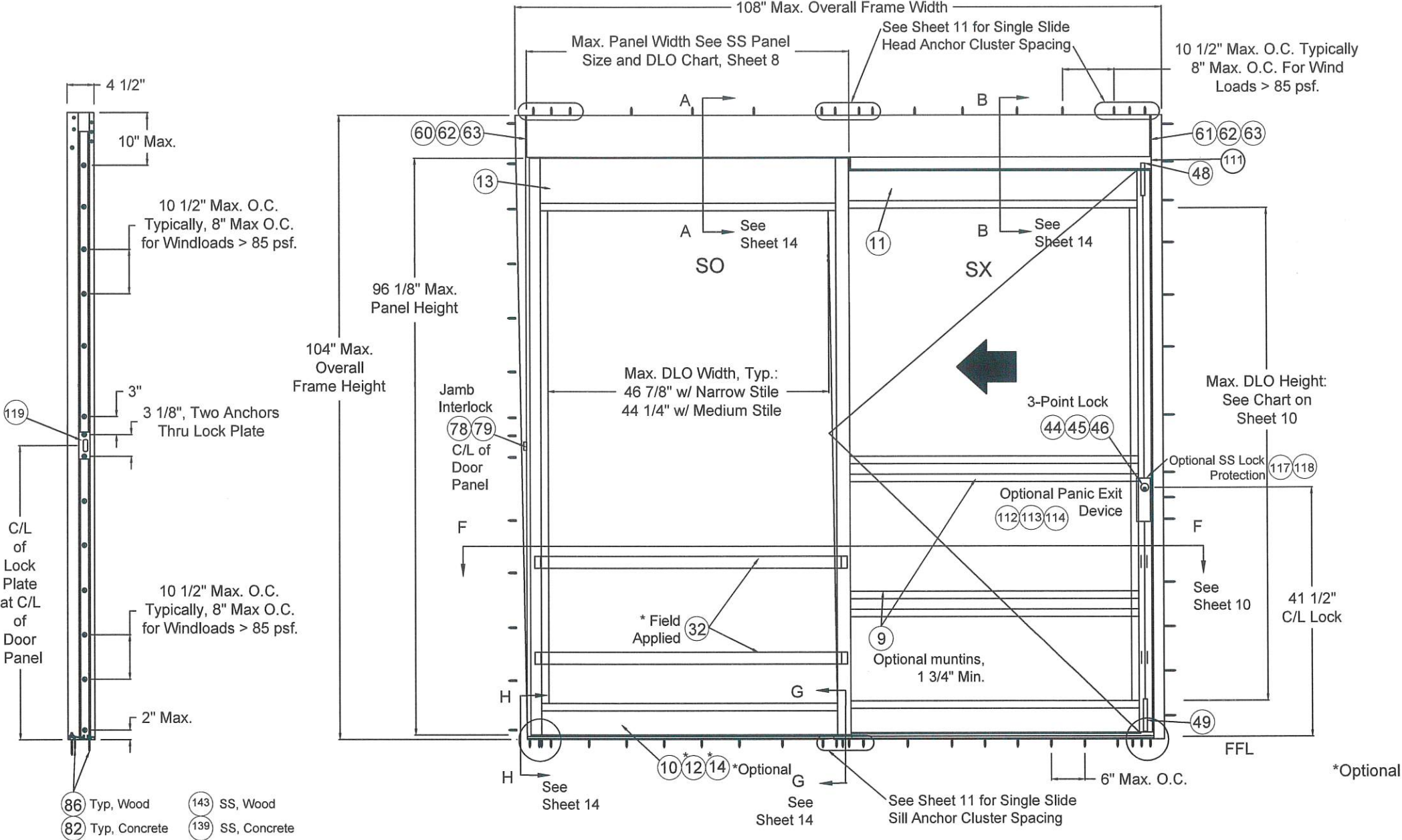
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FL PE# 62354

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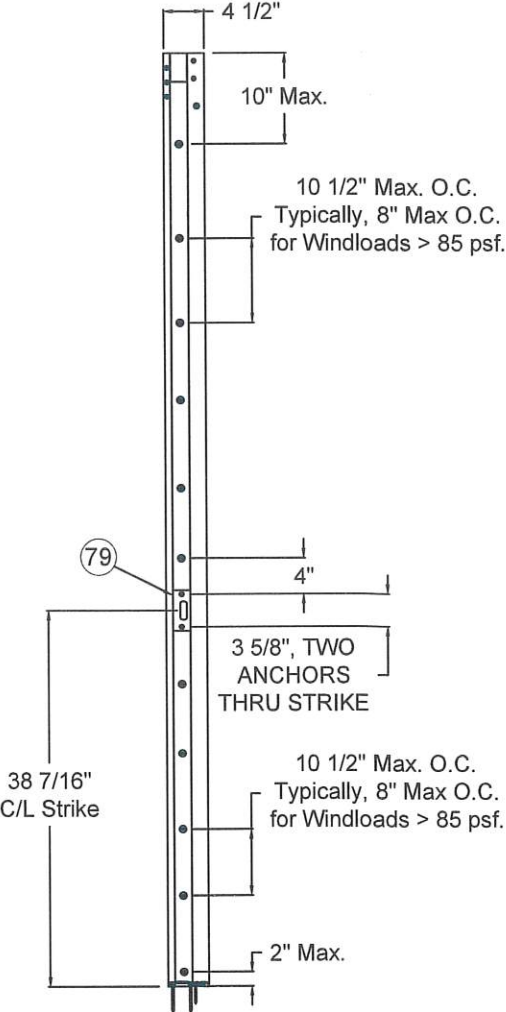
NOTE:
-BASE PACKAGE
ELEVATION APPLICABLE TO
BASE PACKAGE WITH LWI

DWG NO.	DOC-1688253-FPA
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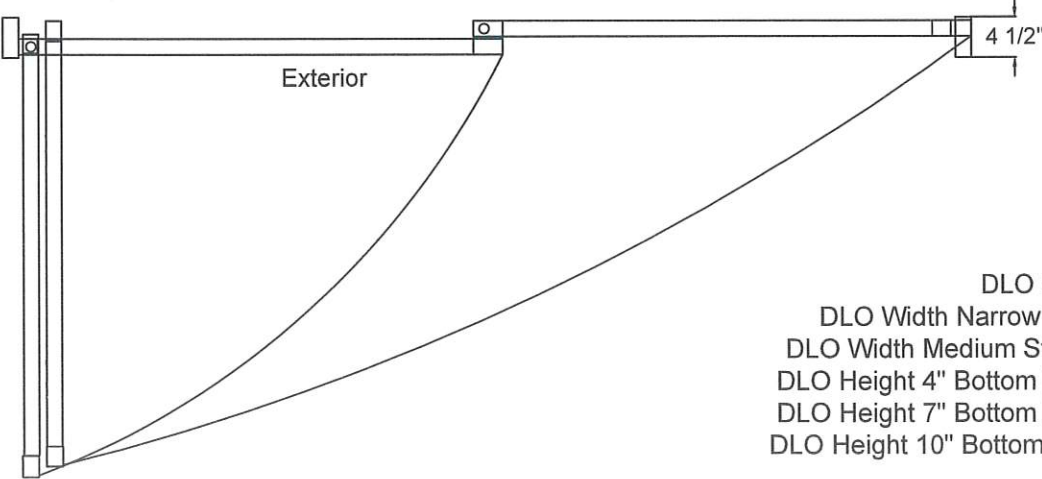


SIDELITE JAMB



ACTIVE JAMB

LH FBO (2 Panels Left-Hand Full Breakout)



NOTE:
-BASE PACKAGE
ELEVATION APPLICABLE TO
BASE PACKAGE WITH LWI

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"

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SHEET DESCRIPTION SHEET NO. 3 OF 26

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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 TYPE 4	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 TYPE 4	NON-IMPACT**	4 PT. LOCK ADAMS-RITE 9600	SEE CHART BELOW SEE CHART BELOW	SEE CHART BELOW SEE CHART BELOW

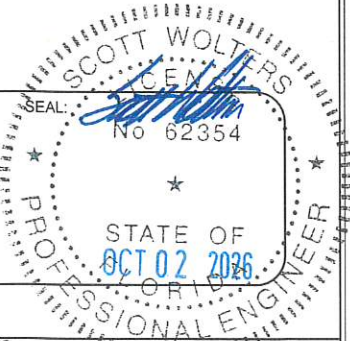
** SHUTTERS ARE REQUIRED FOR WINDBORNE DEBRIS REGIONS

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 TYPE 4 (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 TYPE 4 (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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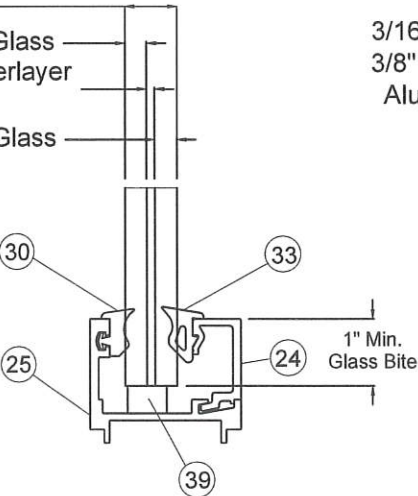


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1	Added Note for Glass Type 4	10/18/19	SJF
2	Was 21 pages	9/4/26	SS

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

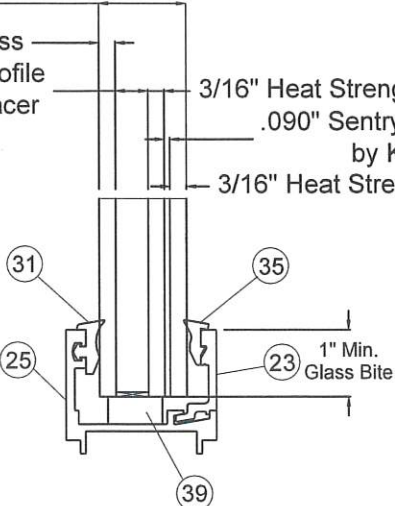


FBC 2411.3.3.1
Compliant Setting Blocks
80 Durometer Neoprene
2 per Glass Edge

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



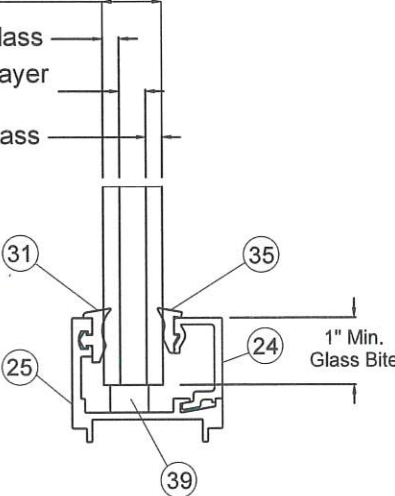
FBC 2411.3.3.1
Compliant Setting Blocks
80 Durometer Neoprene
2 per Glass Edge

LEVEL D LARGE
AND SMALL MISSILE IMPACT

Glass Type 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



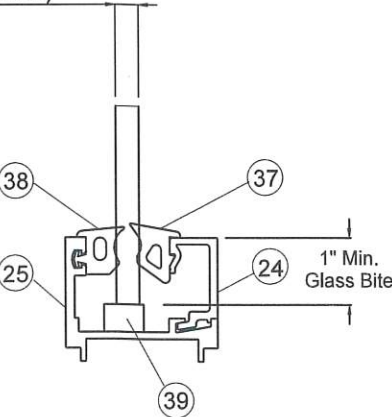
FBC 2411.3.3.1
Compliant Setting Blocks
80 Durometer Neoprene
2 per Glass Edge

LEVEL E LARGE
AND SMALL MISSILE IMPACT

Glass Type 4
1/4" TEMPERED GLASS

GLASS TYPE 4 IS NOT IMPACT
RESISTANT. AN IMPACT RESISTANT
SHUTTER SYSTEM IS REQUIRED FOR
USE IN WINDBORNE DEBRIS REGIONS.

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

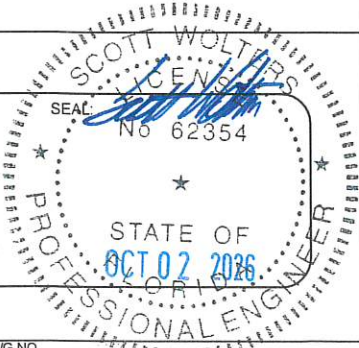


FBC 2411.3.3.1
Compliant Setting Blocks
80 Durometer Neoprene
2 per Glass Edge

NON-IMPACT

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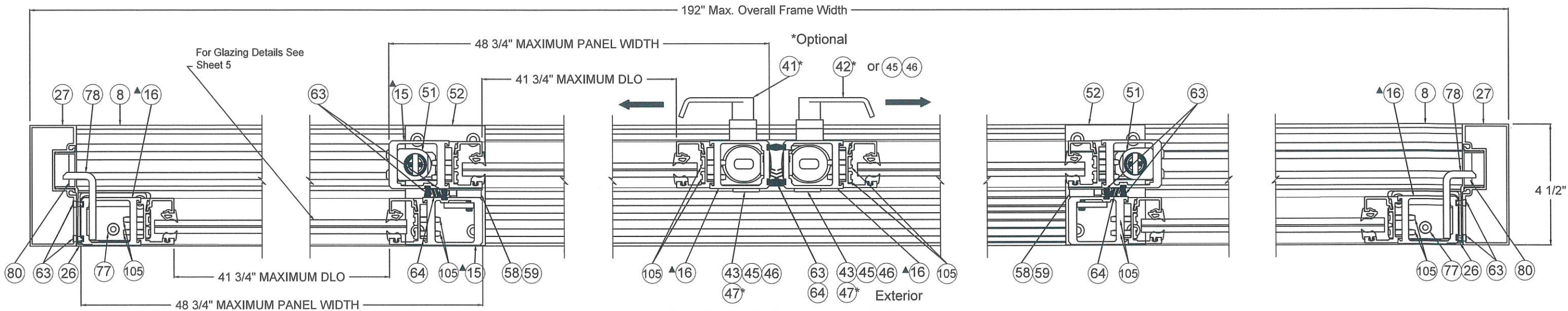


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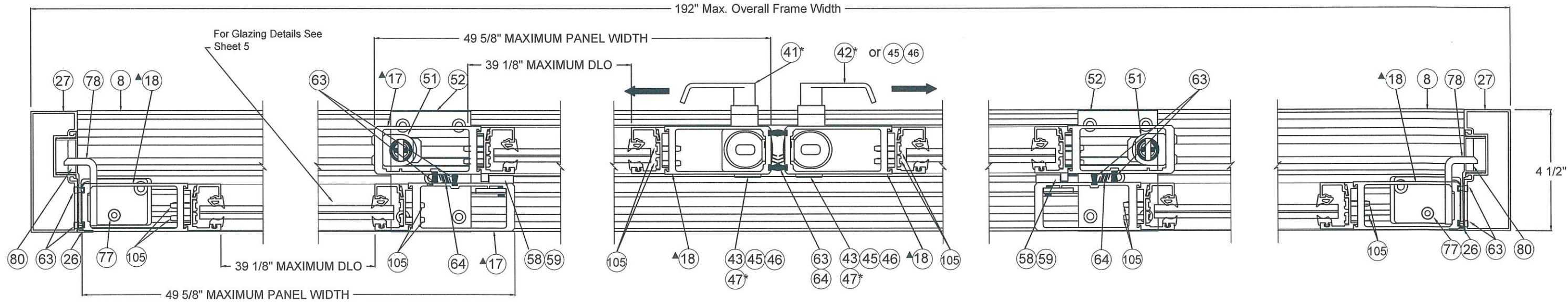
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BASE PACKAGE

▲ US Patent 11,448,003 B2



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

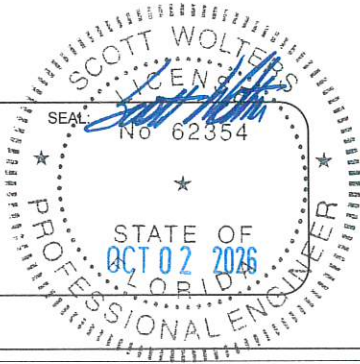


Section C-C, Medium Stile
BI-PARTING FULL BREAKOUT SHOWN

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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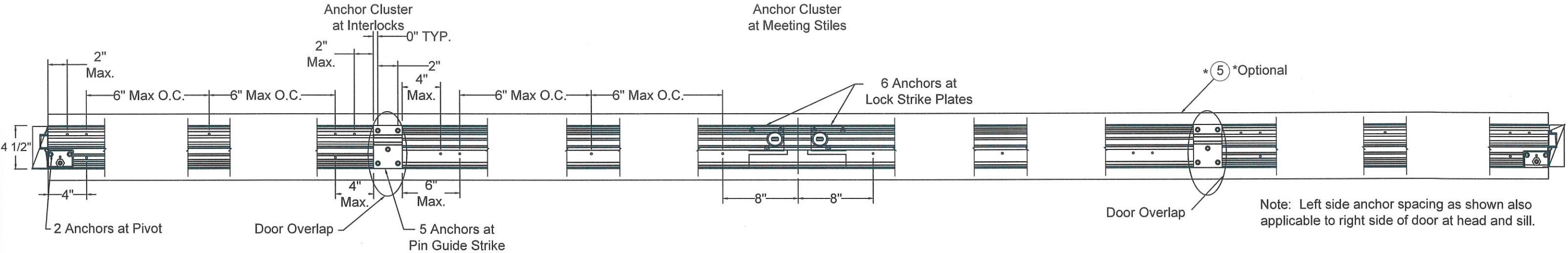
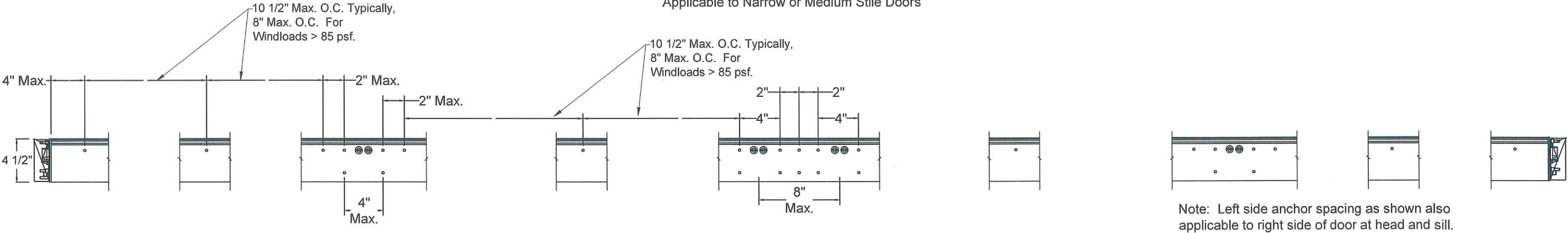
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BASE PACKAGE

BI-PART HEAD ANCHOR LOCATIONS

Applicable to Narrow or Medium Stile Doors



BI-PART SILL ANCHOR LOCATIONS

Applicable to Narrow or Medium Stile Doors

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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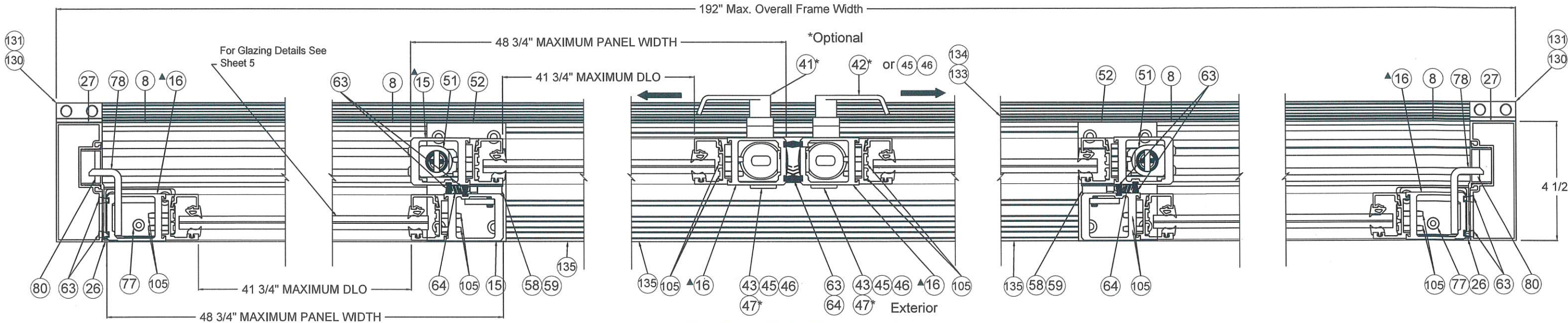
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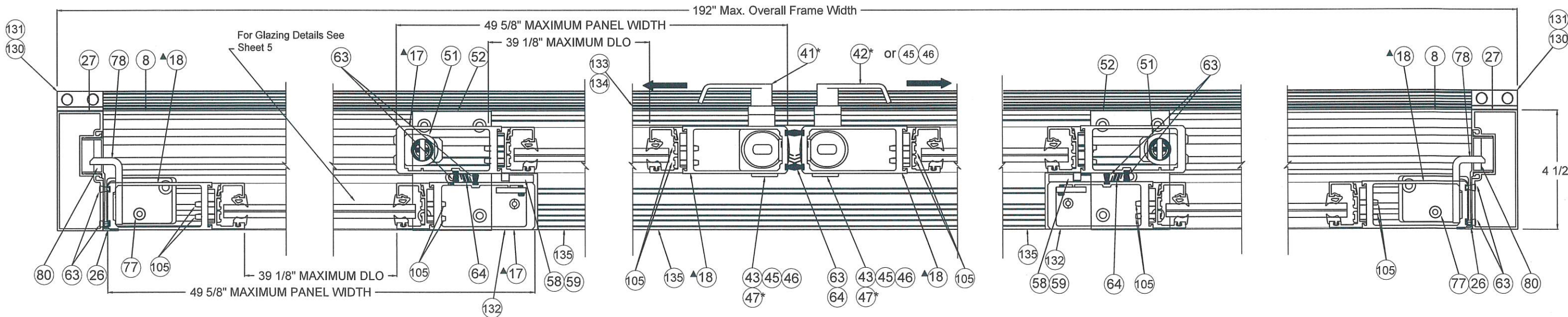
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BASE PACKAGE WITH LWI OPTION

▲ 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		
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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"

SCOTT WOLTERS
FL PE# 62354

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

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DWG NO.	DOC-1688253-FPA
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DATE	7/19/2019
SHEET DESCRIPTION	SHEET NO. 8 OF 26

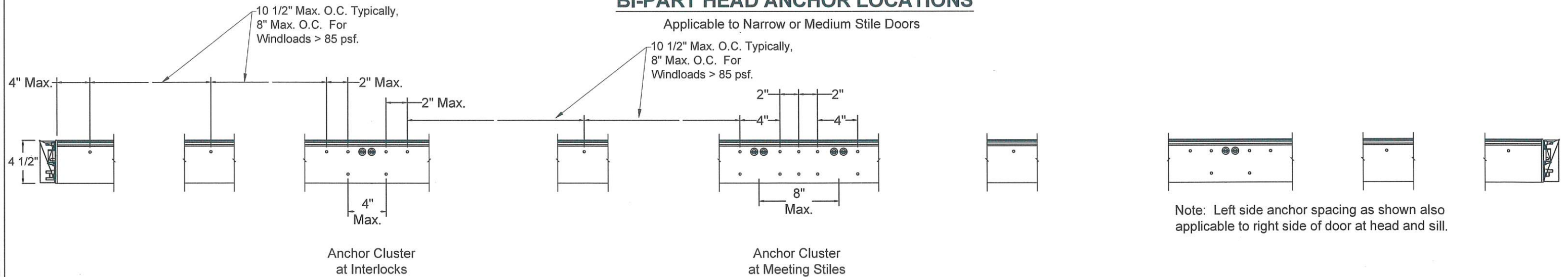
ASSA ABLOY

Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF
1	New option, was 21 pages	9/4/26	SS

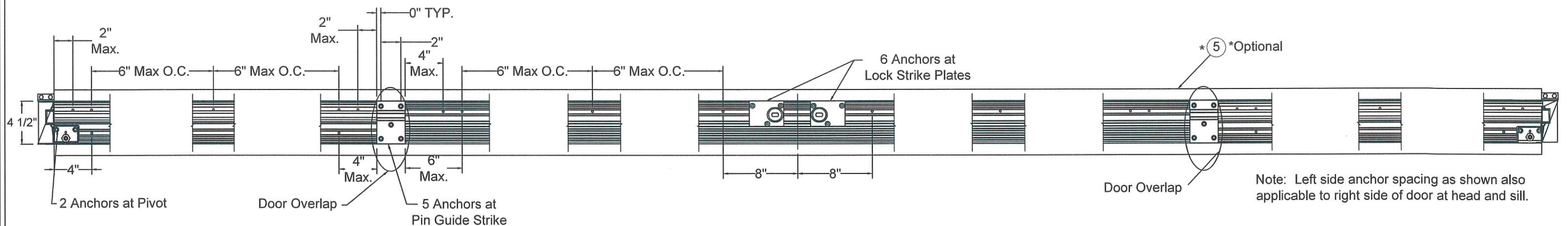
BASE PACKAGE WITH LWI OPTION

BI-PART HEAD ANCHOR LOCATIONS

Applicable to Narrow or Medium Stile Doors



Note: Left side anchor spacing as shown also applicable to right side of door at head and sill.



Note: Left side anchor spacing as shown also applicable to right side of door at head and sill.

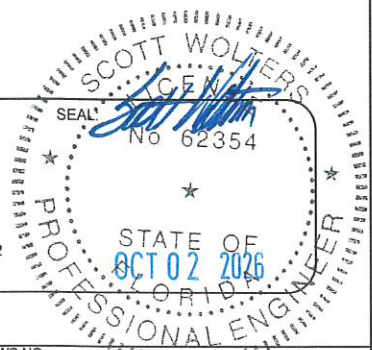
BI-PART SILL ANCHOR LOCATIONS

Applicable to Narrow or Medium Stile Doors

BP Panel Size and Daylight Opening Chart		
Door Style	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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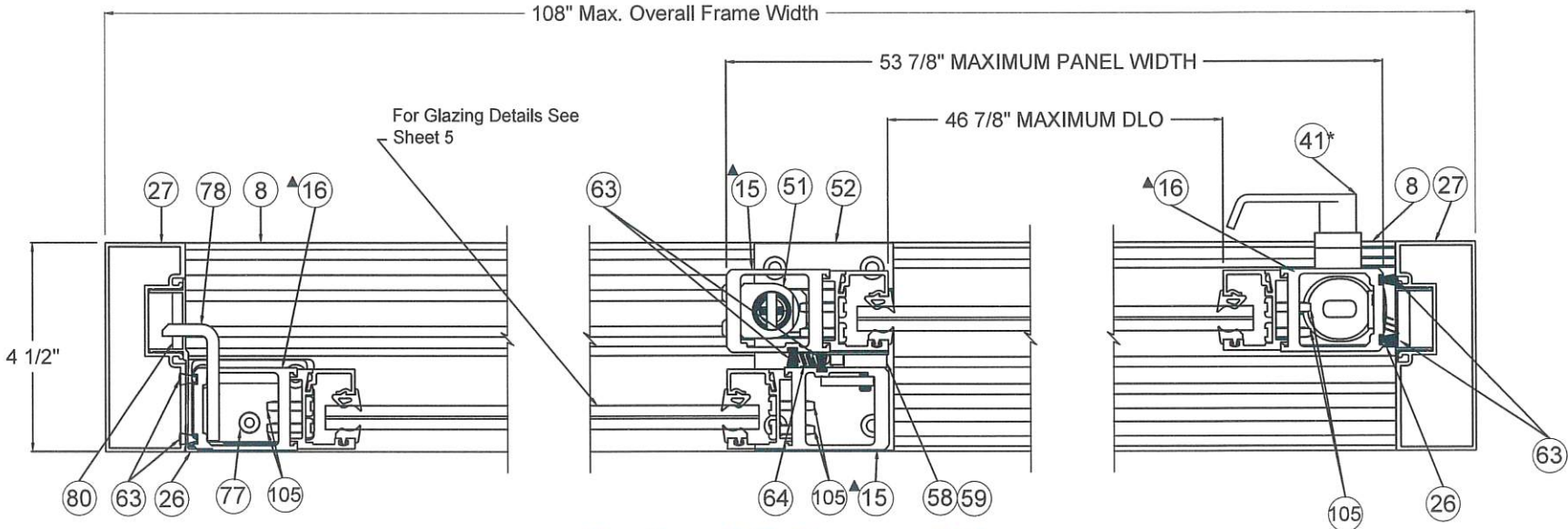
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SHEET DESCRIPTION		SHEET NO. 9 OF 26	

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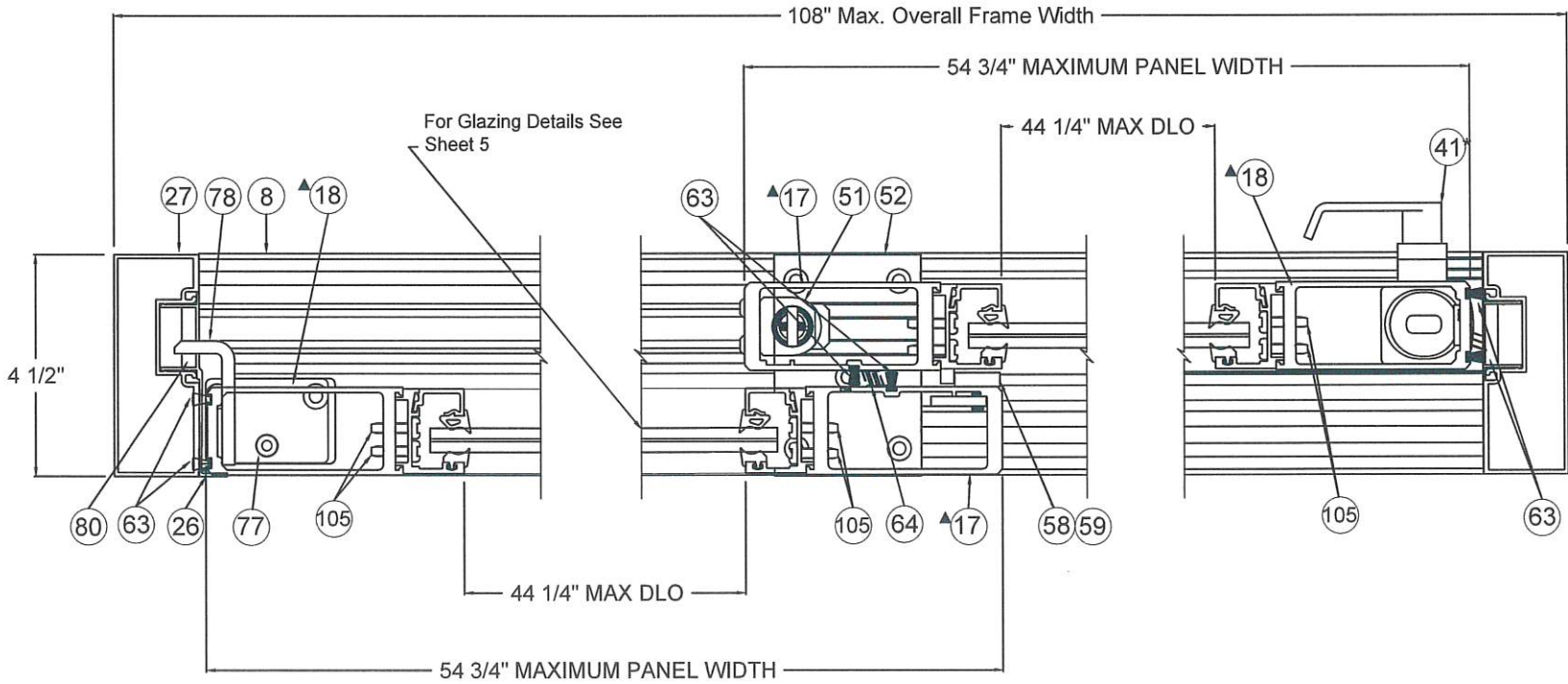
Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF
1	Base package title added, was 21 pages	9/4/26	SS

BASE PACKAGE

▲ 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"

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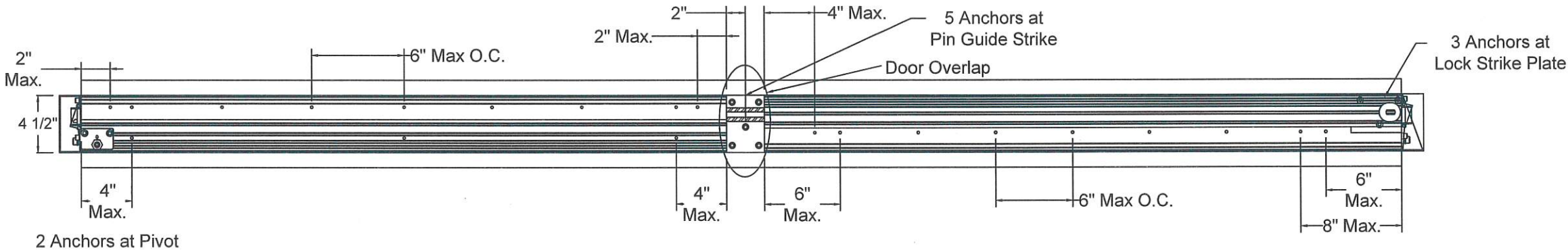
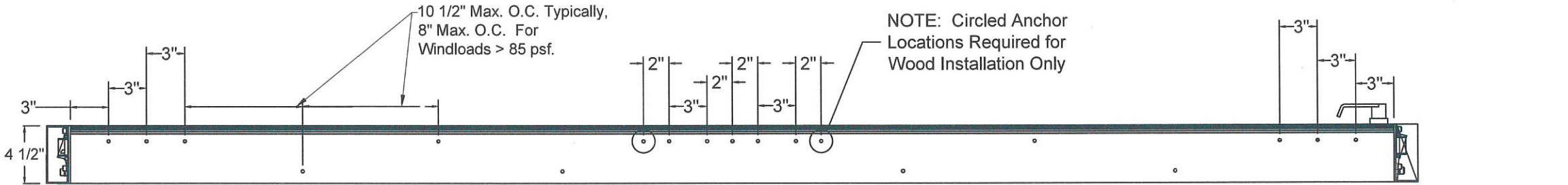


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DATE	7/19/2019
SHEET DESCRIPTION	
SHEET NO.	10 OF 26

Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF
1	Base package title added, was 21 pages	9/4/26	SS

BASE PACKAGE

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"
7"	96 1/8"	79 1/8"
10"	96 1/8"	76 1/8"

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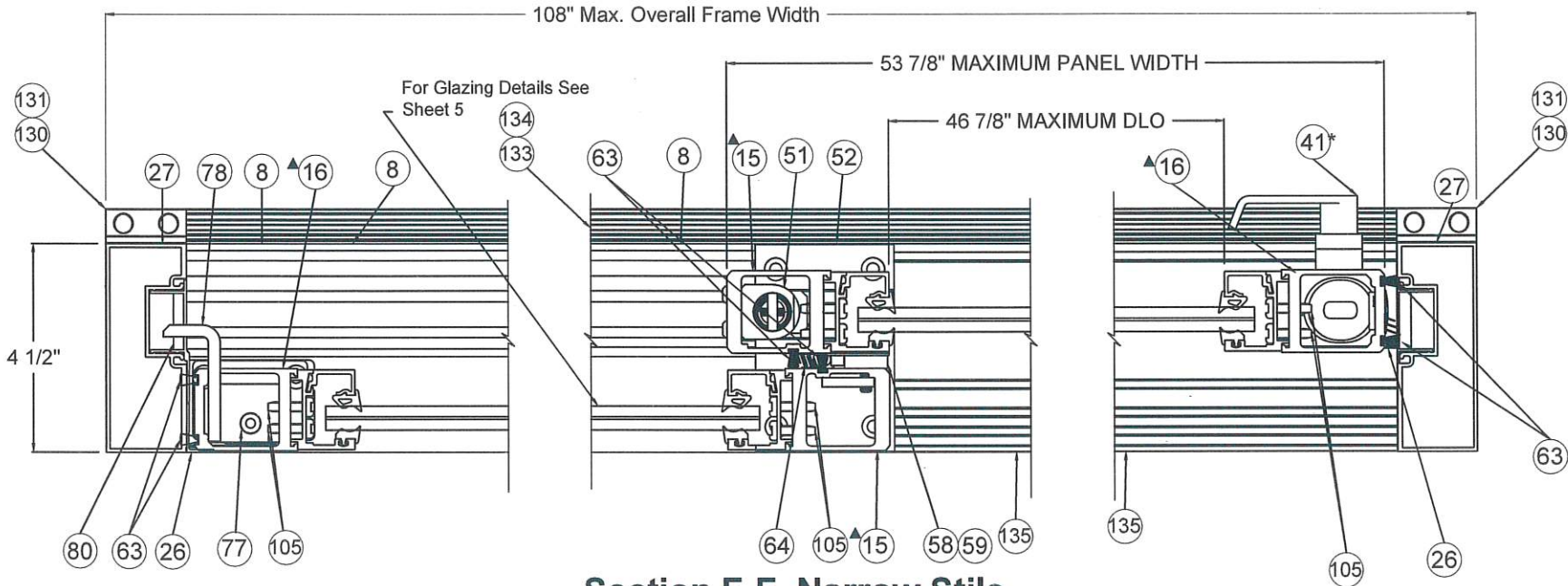
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ASSA ABLOY

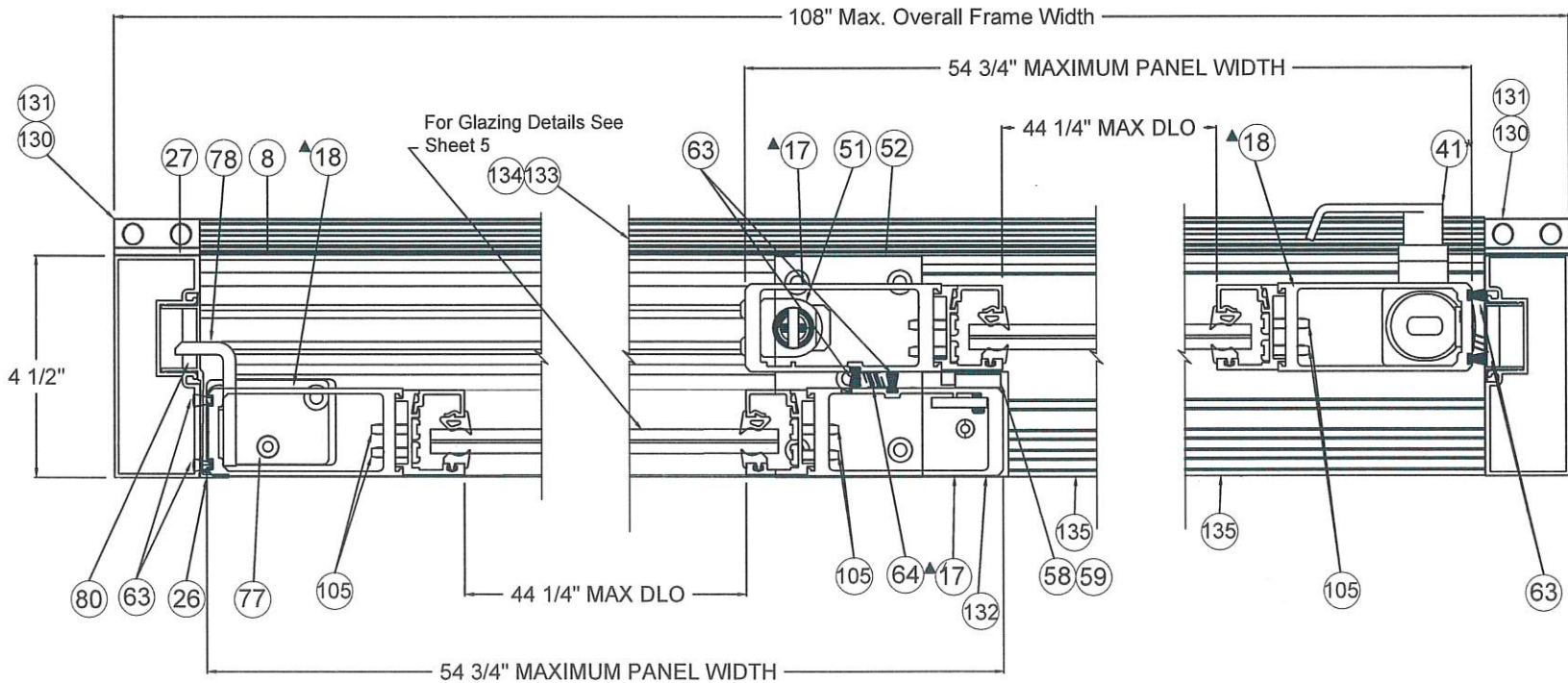
Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF
1	New option, was 21 pages	9/4/26	SS

BASE PACKAGE WITH LWI OPTION

▲ US Patent 11,448,003 B2



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



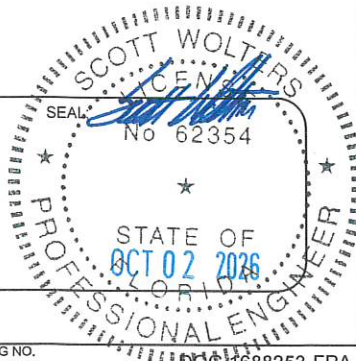
Section F-F, Medium Stile
SINGLE SLIDE FULL BREAKOUT SHOWN

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"

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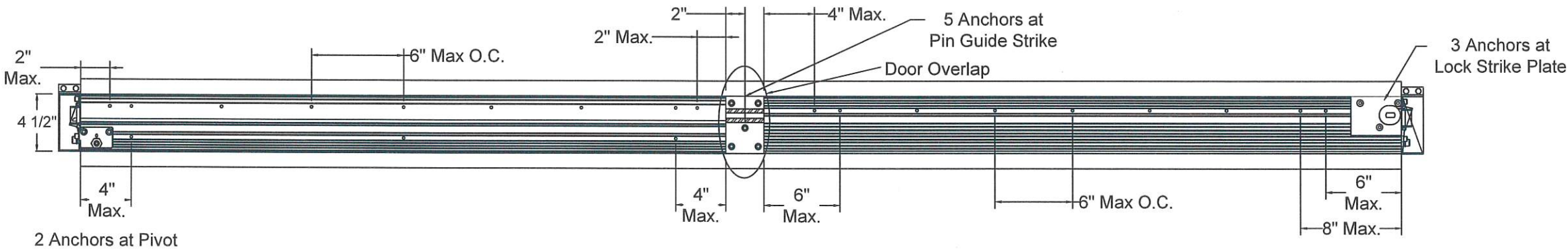
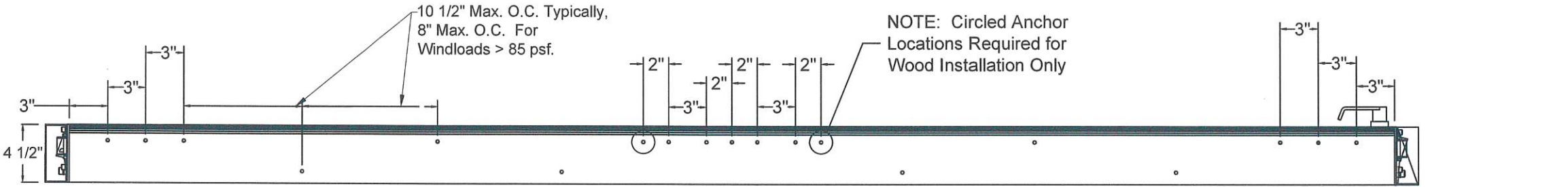


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SHEET DESCRIPTION	
SHEET NO.	12 OF 26

Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF
1	New option, was 21 pages	9/4/26	SS

BASE PACKAGE WITH LWI OPTION

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"
7"	96 1/8"	79 1/8"
10"	96 1/8"	76 1/8"

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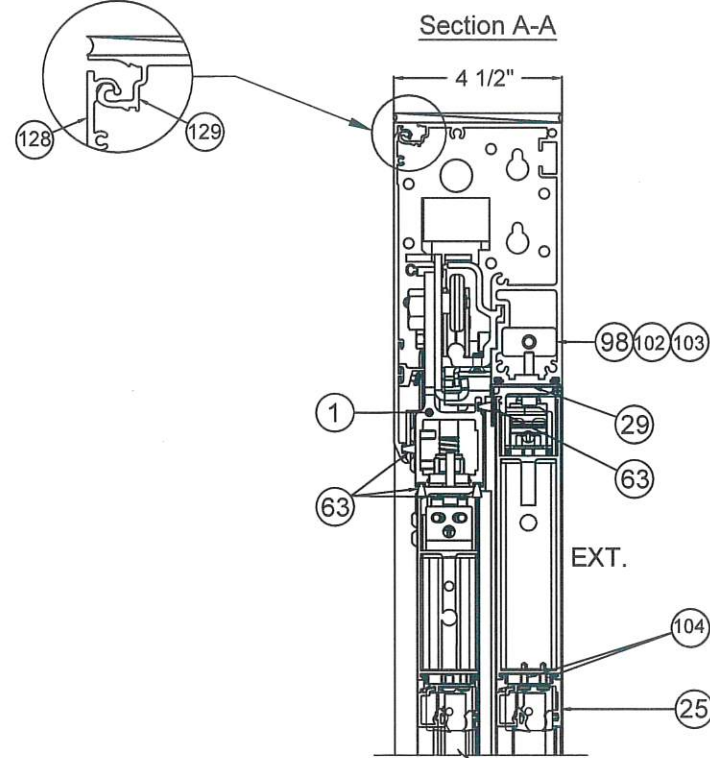
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OCT 02 2026

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SHEET DESCRIPTION SHEET NO. 13 OF 26

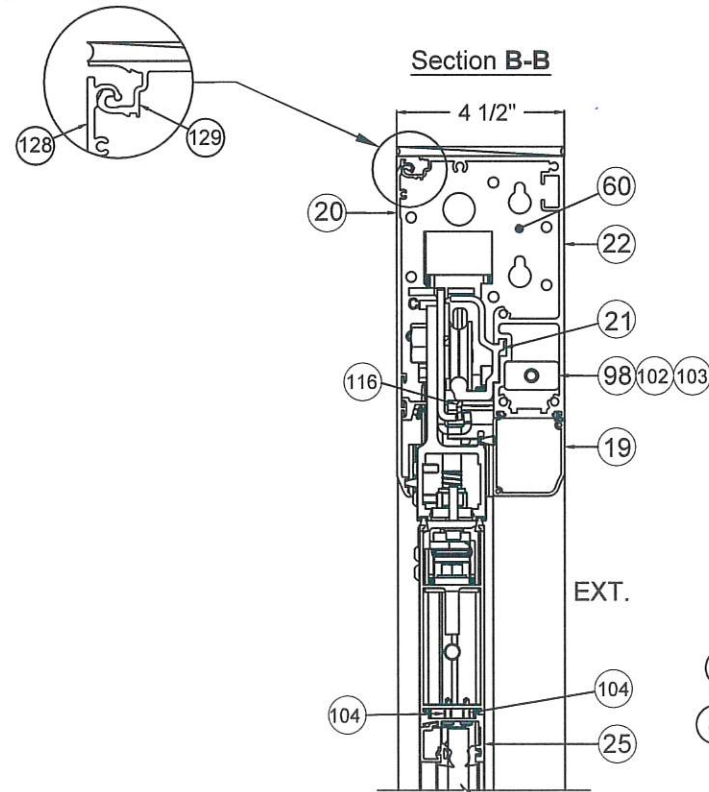
ASSA ABLOY

Revisions			
Rev	Description	Date	Approved
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1	136 & 137 added, was 21 pages	9/4/26	SS

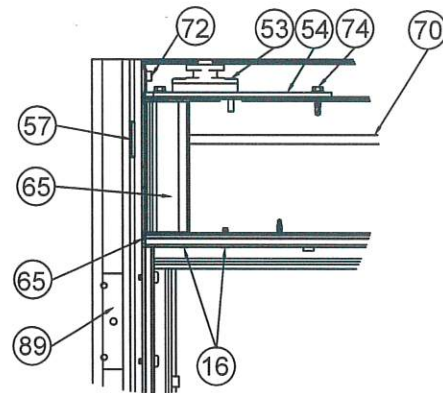
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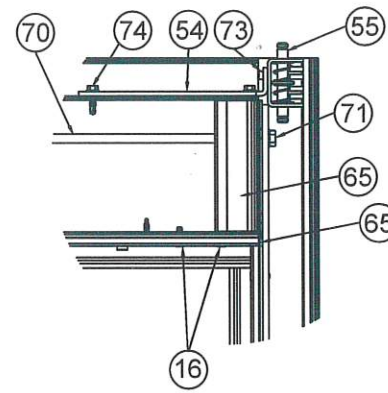
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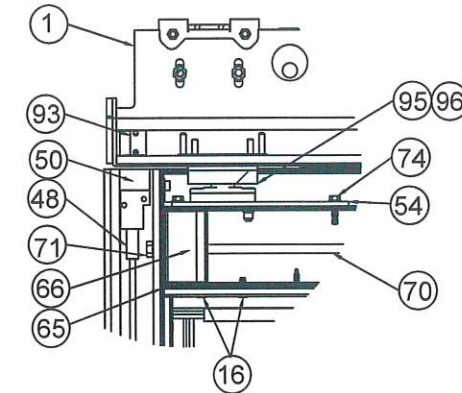
Sidelite Top Corner- Lead Side



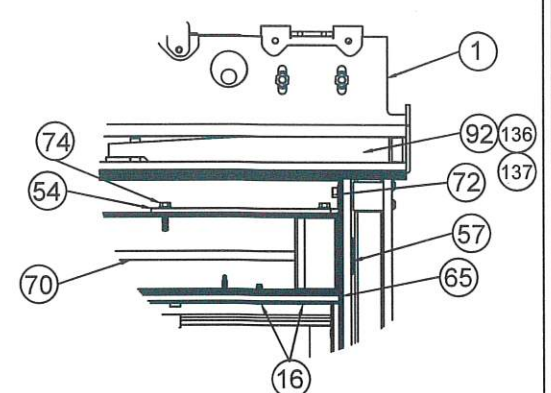
Sidelite Top Corner- Pivot Side



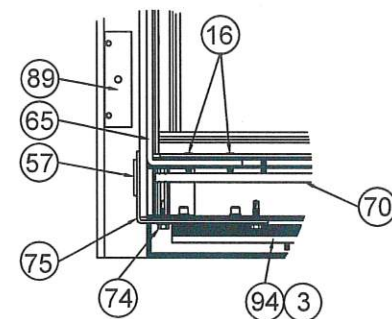
Active Leaf Top Corner- Lead Side



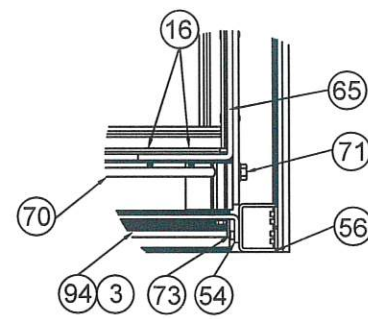
Active Leaf Top Corner-Pivot Side



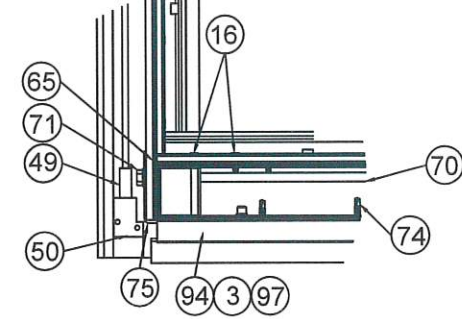
Sidelite Bottom Corner- Lead Side



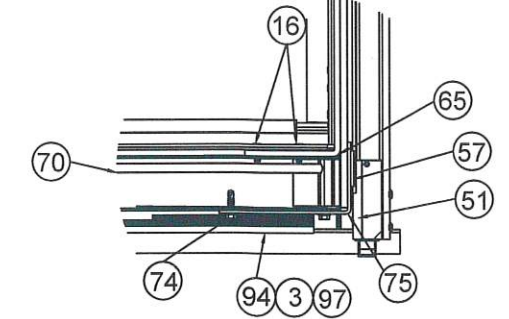
Sidelite Bottom Corner- Pivot Side



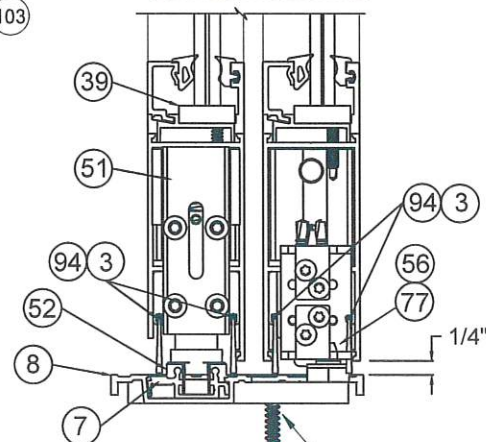
Active Leaf Bottom Corner- Lead Side



Active Leaf Bottom Corner-Pivot Side

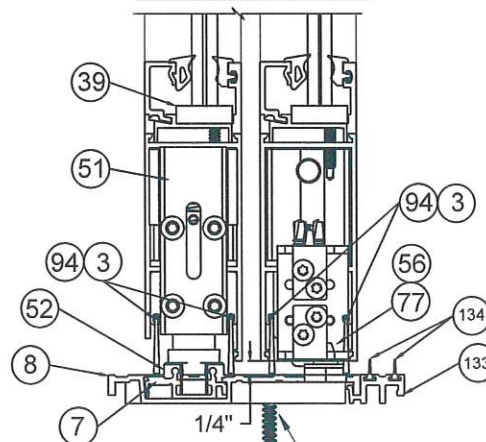


Section G-G
BASE PACKAGE



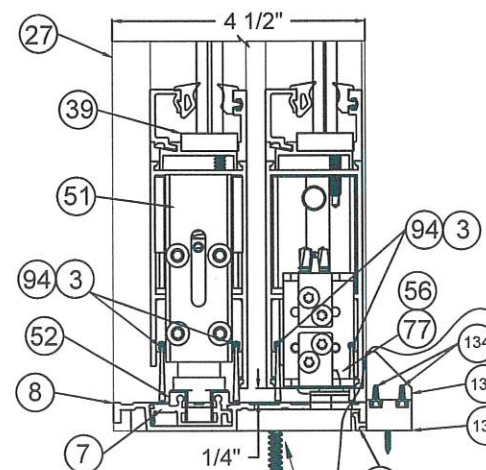
See Table 1 on Sheet 17
For Installation Anchor Info.

Section G-G
BASE PACKAGE
WITH LWI OPTION



See Table 1 on Sheet 17
For Installation Anchor Info.

Section H-H
BASE PACKAGE
WITH LWI OPTION

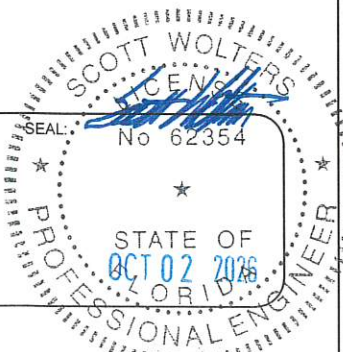


See Table 1 on Sheet 17
For Installation Anchor Info.

Parts included with
LWI Option

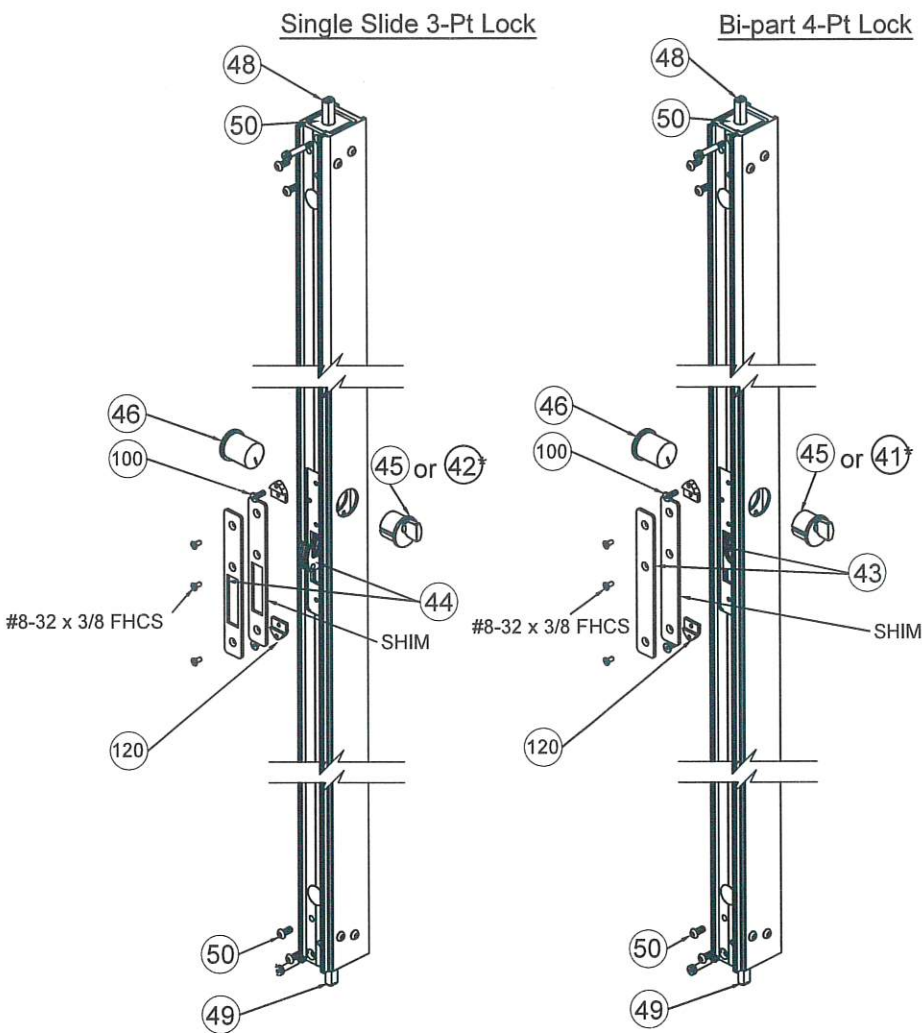
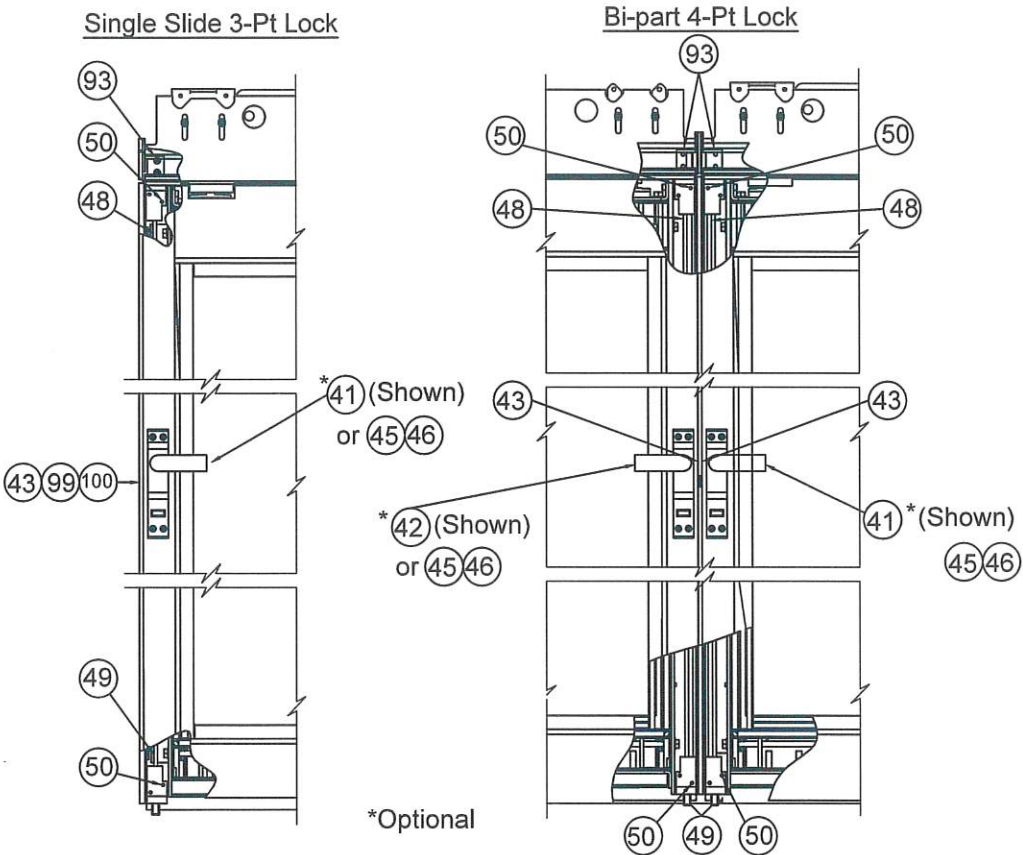
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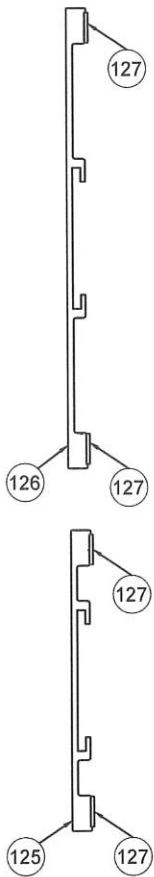


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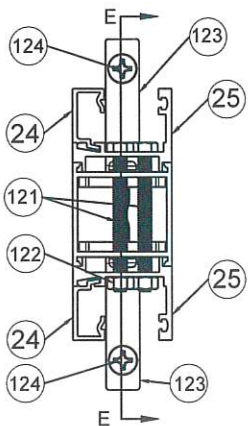
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Rev	Description	Date	Approved
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1	Was 21 pages	9/4/26	SS



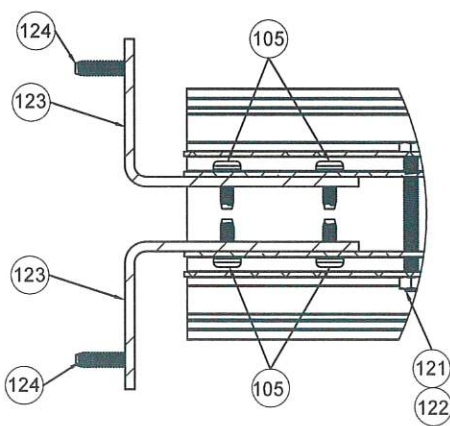
Section E-E
SURFACE APPLIED
MUNTIN



Section D-D
TRUE DIVIDED
MUNTIN

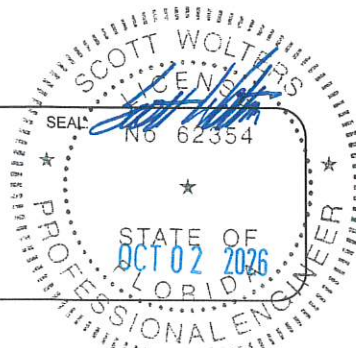


Section E-E
TRUE DIVIDED
MUNTIN



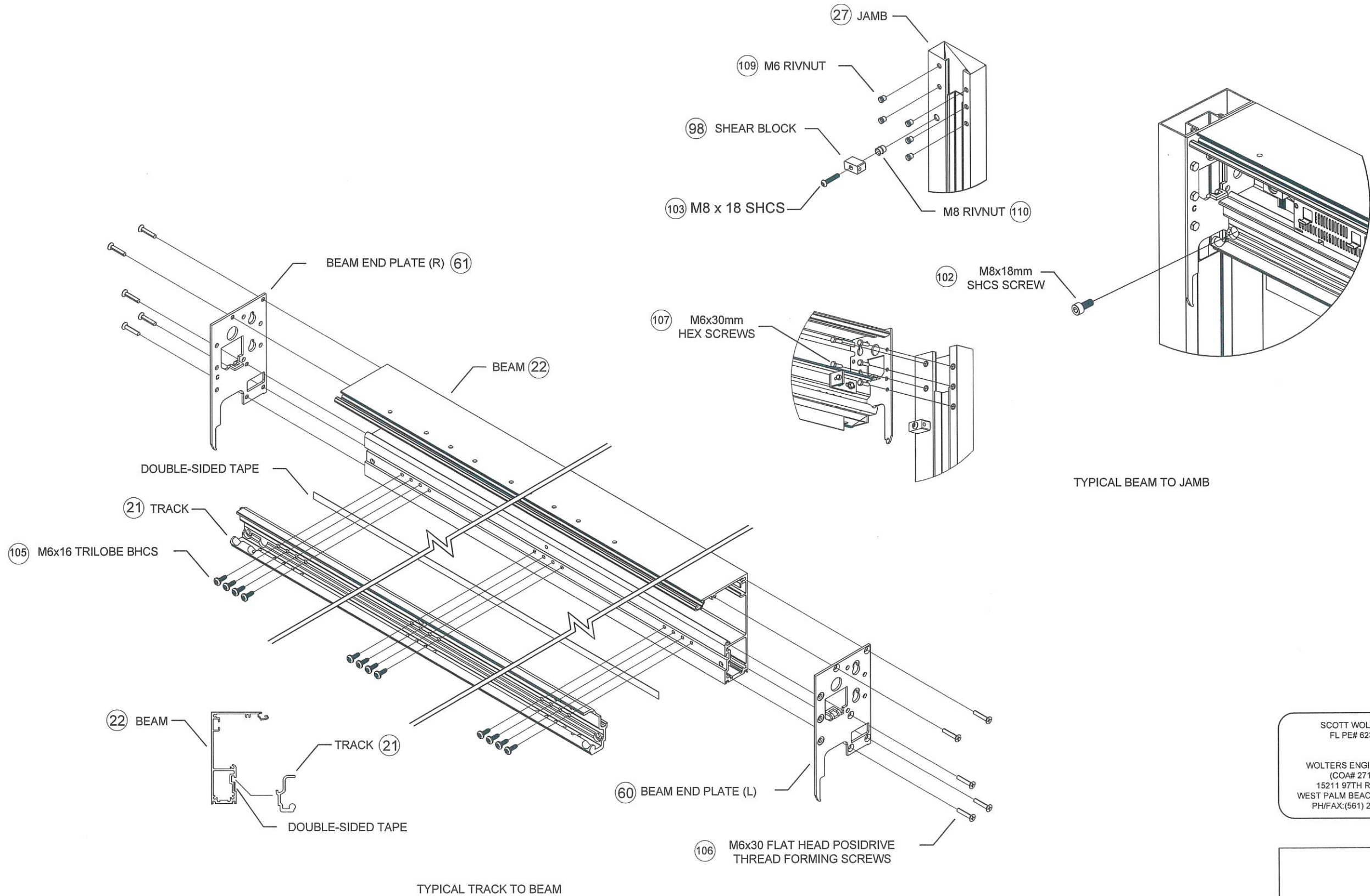
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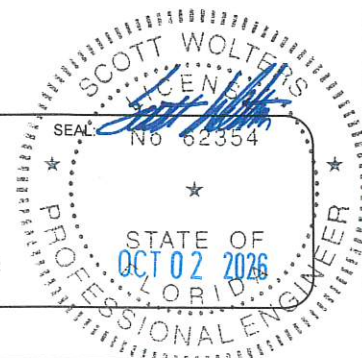
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DATE	7/19/2019
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Revisions			
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	16 OF 26



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

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

Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF
1	Updated table, was 21 pages	9/4/26	SS

TABLE 1: INSTALLATION ANCHOR REQUIREMENTS							
LOCATION CODE	SUBSTRATE TYPE	GREATER THAN 3000 FEET FROM COASTAL SHORELINE			LESS THAN 3000 FEET FROM COASTAL SHORELINE		
		ANCHOR TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DISTANCE	ANCHOR TYPE LESS THAN 3000 FEET FROM COASTAL SHORELINE	MINIMUM EMBEDMENT	MINIMUM EDGE DISTANCE
A-1	Concrete (2.85 ksi MIN)	1/4" DIA. ELCO ULTRACON (TYPICALLY)	1 3/4"	2 1/2"	1/4" DIA. SIMPSON TITEN TURBO 316SS	2 1/2"	2 1/2"
A-2		3/16" DIA. ELCO ULTRACON (AT THRESHOLD ONLY)	1 3/4"	2 1/2"	1/4" DIA. SIMPSON TITEN TURBO 316SS	2 1/2"	2 1/2"
B	HOLLOW OR GROUT FILLED CMU (ASTM C90 MIN) (JAMBS ONLY)	1/4" DIA. ELCO ULTRACON	1 3/4"	2 1/2"	1/4" DIA. SIMPSON TITEN TURBO 316SS	2 1/2"	2 1/2"
C-1	2X P.T. WOOD (S.G.=0.55, MIN)	#14 GR. 5 WOOD SCREW (TYPICALLY)	1 3/8"	1"	#14 316 SS WOOD SCREW* (PLATES, STRIKES, & PIVOTS)	1 3/8"	1"
C-2		#14 GR. 5 WOOD SCREW (TYPICALLY)	1 3/8"	1"	#14 316 SS WOOD SCREW* (JAMBS & HEADER)	1 3/8"	1"
C-3		#10 GR. 5 WOOD SCREW (AT THRESHOLD ONLY)	1 3/8"	1"	#10 316 SS WOOD SCREWS* (AT THRESHOLD UNDER SIDELITE ONLY)	1 3/8"	1"
C-4		#10 GR. 5 WOOD SCREW (AT THRESHOLD ONLY)	1 3/8"	1"	#10 316 SS WOOD SCREWS* (AT THRESHOLD)	1 3/8"	1"
D	STEEL STUD (16Ga, 45 ksi MIN)	1/4" DIA. ITW TEKS SELF-DRILLING SCREW	FULL**	1/2"	1/4" DIA. DEWALT BI-FLEX SELF-DRILLING SCREW	FULL**	1/2"
E	1/8" ALUMINUM (6063-T5 MIN)	1/4" DIA. ITW TEKS SELF-DRILLING SCREW	FULL**	1/2"	1/4" DIA. DEWALT BI-FLEX SELF-DRILLING SCREW	FULL**	1/2"
** FULLY PENETRATES METAL WITH 3 THREADS BEYOND							
*ALL SS FASTENERS MUST MEET F _{ut} ≥ 100 KSI							

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SEAL
No 62354

STATE OF
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OCT 02 2026
PROFESSIONAL ENGINEER

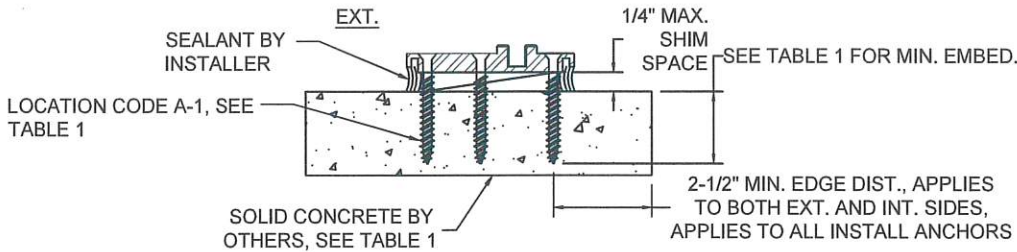
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DATE
7/19/2019
SHEET NO.
17 OF 26

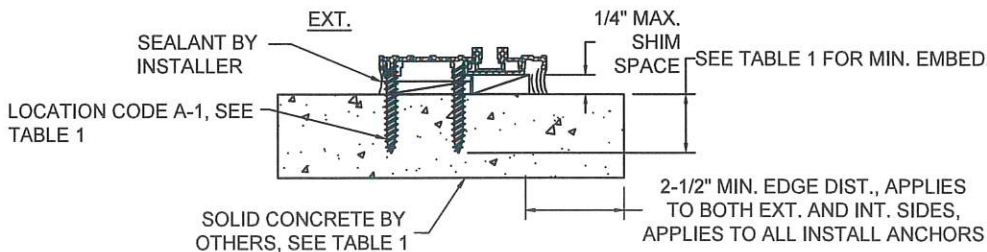
DOC-1688253-FPA

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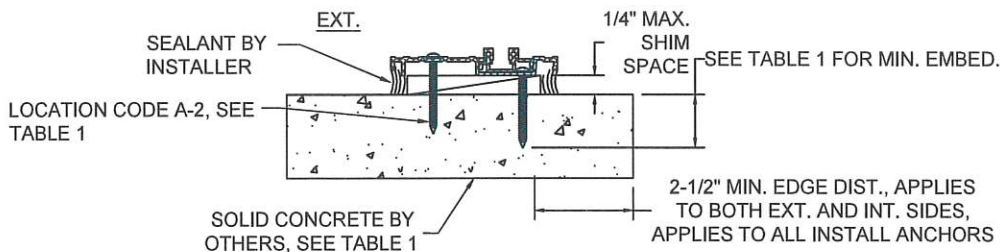
SILL ANCHOR DETAILS IN CONCRETE



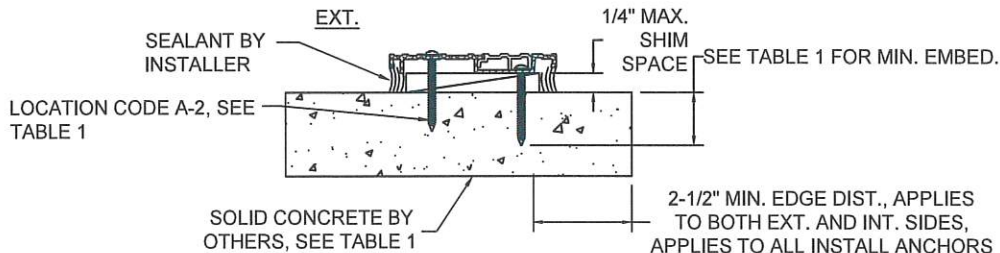
AT PIN GUIDE STRIKES



AT LOCK STRIKE PLATES

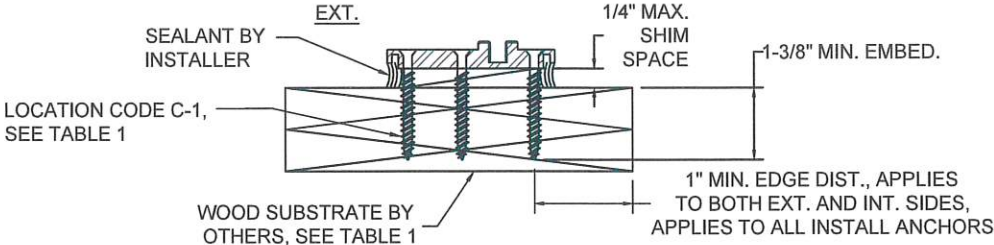


AT SIDELITE THRESHOLD

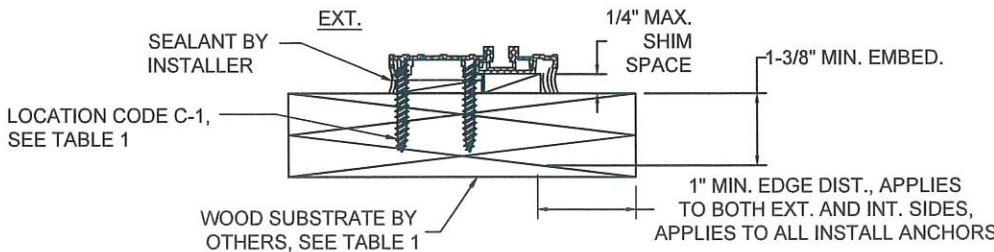


AT OPERABLE THRESHOLD

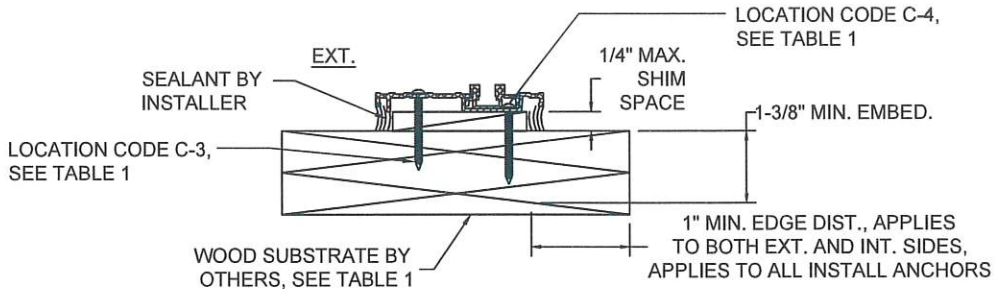
SILL ANCHOR DETAILS IN WOOD



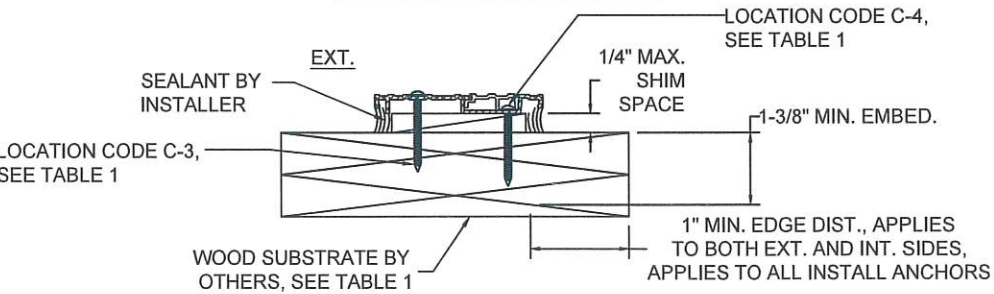
AT PIN GUIDE STRIKES



AT LOCK STRIKE PLATES

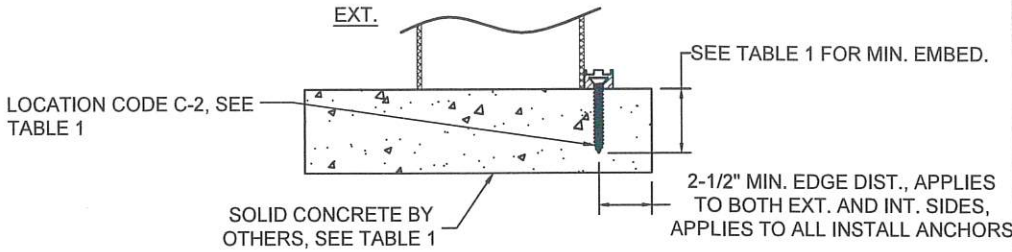


AT SIDELITE THRESHOLD

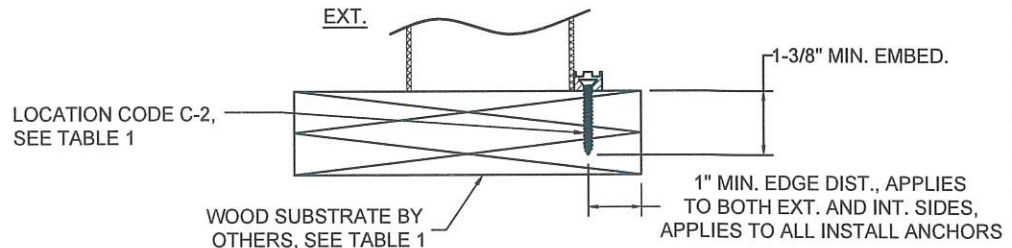


AT OPERABLE THRESHOLD

SEALING FLOOR PLATE DETAILS IN CONCRETE



SEALING FLOOR PLATE DETAILS IN WOOD



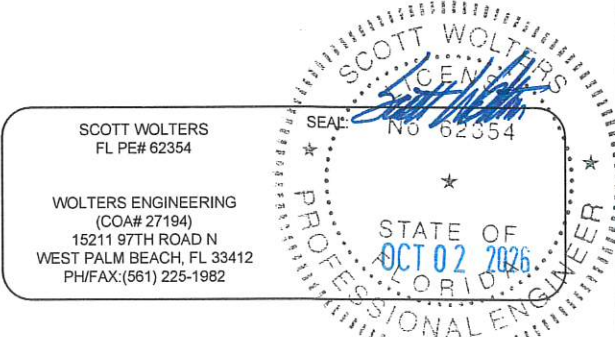
NOTE: ANCHORS ARE FLATHEAD AT ALL PLATE/STRIKE LOCATIONS AND ROUND/PAN/HEX-WASHER HEAD ELSEWHERE

CONCRETE ANCHORS AT THRESHOLD: CONCRETE ANCHORS THAT PENETRATE THE THRESHOLD ONLY ARE 3/16" DIA. ELCO ULTRACONS OR 1/4" DIA. SIMPSON TITEN TURBO 316SS. ANCHORS THAT PENETRATE DOOR HARDWARE OR STRIKE PLATES ARE 1/4" DIA. ELCO ULTRACONS OR 1/4" DIA. SIMPSON TITEN TURBO 316SS.

GENERAL ANCHOR NOTES:

1. INSTALL ANCHOR AS INDICATED IN DETAILS ON SHEETS 2 THRU 13 AT EACH LOCATION SHOWN IN THE ELEVATIONS ON SHEETS 2 AND 3.
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.

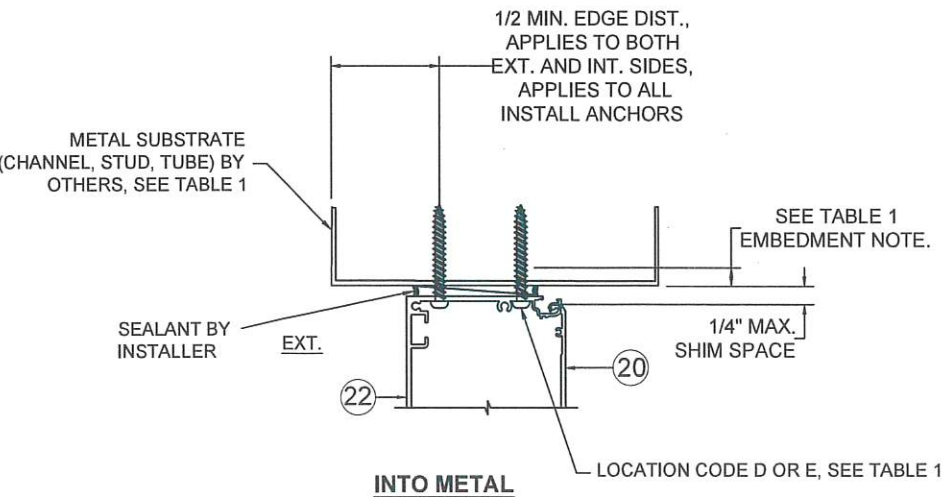
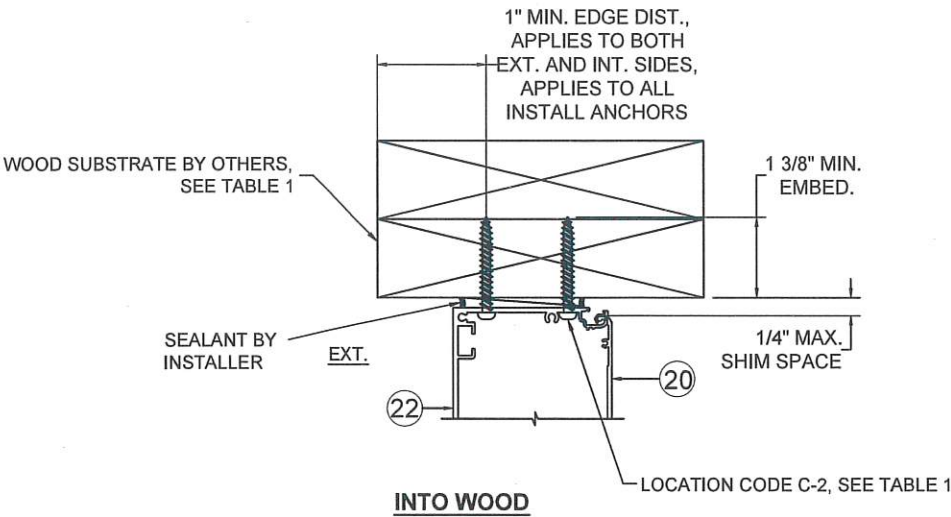
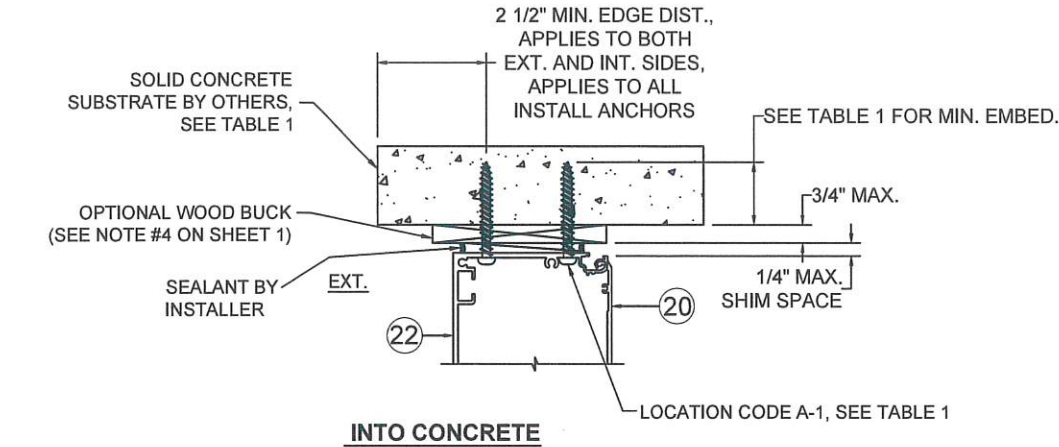
Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF
1	Notes updated, sealing floor plate details added, was 21 pages	9/4/26	SS



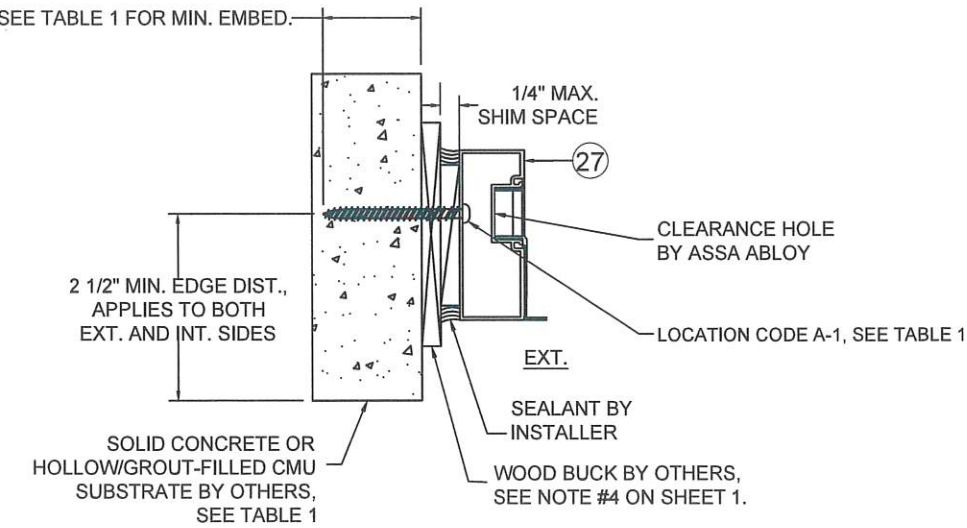
DWG NO.	DOC-1688253-FPA
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	SHEET NO. 18 OF 26

Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF
1	Notes updated, was 21 pages	9/4/26	SS

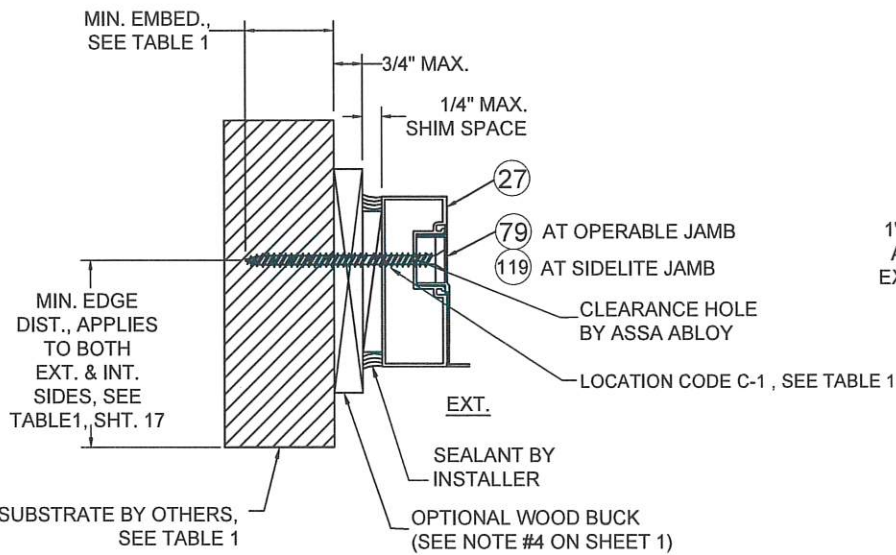
HEAD ANCHOR DETAILS



JAMB ANCHOR DETAILS

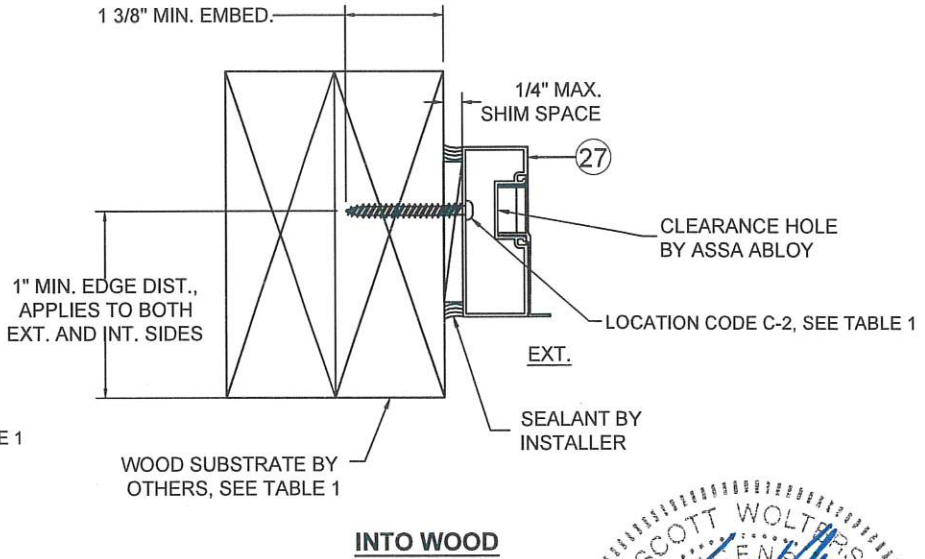
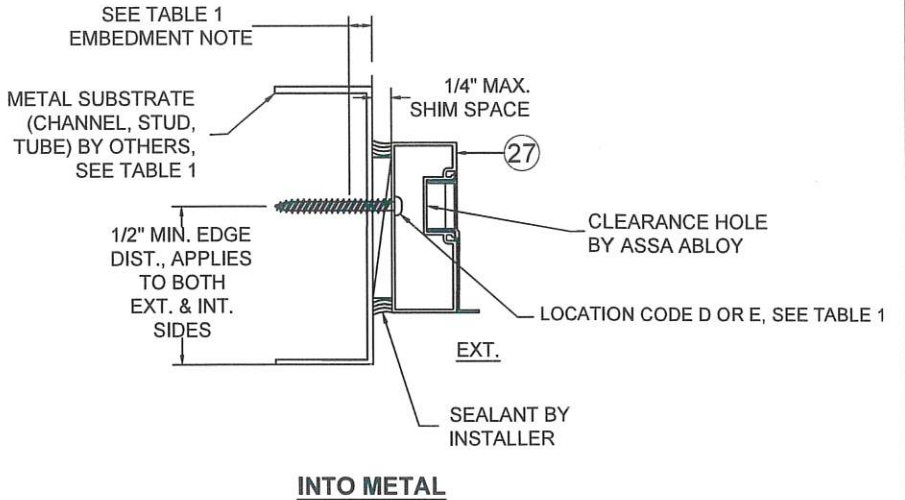


INTO CONCRETE/MASONRY



TYPICAL ALT. JAMB INSTALLATION THRU LOCK PLATE/STRIKE

SEE GENERAL ANCHOR NOTES
AND TABLE 1, SHEET 1



INTO WOOD

SCOTT WOLTERS
FL PE# 62354

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

STATE OF
FLORIDA
OCT 02 2026
PROFESSIONAL ENGINEER

DWG NO.	DOC-1688253-FPA
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	SHEET NO. 19 OF 26



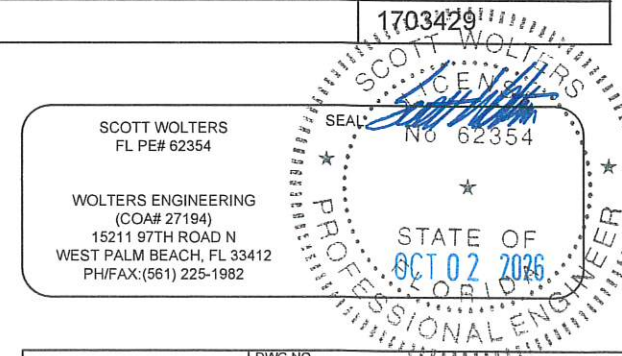
ASSA ABLOY
SL500 RESILIENCE R104 SLIDING DOOR SYSTEM (HVHZ)
BI-PARTING AND SINGLE SLIDING

Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF
1	Was 21 pages	9/4/26	SS

1	Carrier	1015669
2	Sweep Clip	1013780
3	Sweep Housing	US01-0685
4	Track Cap	50-20-135
5	Leadup	1013364
6	Filler	1013366
7	Pin Guide	1013866
8	Threshold	1013363
9	H2 Muntin Rail (Optional)	1012947
10	H4 Bottom Rail	1012942
11	H5 A/L Top Rail	1012944
12	H7 Bottom Rail	1012945
13	H7.5 S/L Top Rail	1016075
14	H10 Bottom Rail	1012946
15	V2N HD Rail	1018841
16	V1N HD Rail	1018840
17	V2M HD Rail	1018843
18	V1M HD Rail	1018842
19	Sensor Cap	1016738
20	Beam Cover	1016073
21	Resilience Track	1015670
22	SL500 Beam	1010590
23	1" Snap	1015702
24	9/16" Snap	1015701
25	Gutter	1015700
26	Resilience Jamb Filler	1016844
27	Jamb	US01-0931
28	Jamb Filler	US01-0933
29	S/L Cap	1008138
30	Wedge Seal (9/16" L.D. glass)	1703423
31	Fixed Seal (1" L.D. glass)	1703638
32	Resilience Crash Bar Kit (Optional)	1017922
33	Wedge Seal (9/16" L.D. glass)	1703422
34	Fixed Seal (9/16" L.D. glass)	1703421
35	Wedge Seal (9/16" L.E. & 1" L.D. glass)	1703423
36	Fixed Seal (9/16" L.E. & 1" L.D. glass)	1703638
37	Wedge Seal (1/4" glass)	1703425
38	Fixed Seal (1/4" glass)	1703424
39	Glass Setting Block	1016294
40	M6 x 30 FH Threadforming Screw	1701704
Pos.	Description	Part.no.

41	Deadbolt Lever, AR4550, RH, CL (Optional)	US05-0771-01
42	Deadbolt Lever, AR4550, LH, CL (Optional)	US05-0771-03
43	2 PT Lock	1703500
44	3 PT Lock	1703501
45	Thumbturn	50-06-106
46	Cylinder, Key Alike	US06-1404-02
47	Lock Indicator	50-06-161
48	Lock Pin Assembly, Top	1016991
49	Lock Pin Assembly, Bottom	1016992
50	Kit, Lock Pin Guide	1018060
51	Resilience Pin Guide Assembly	1016658
52	Pin Guide Strike	1016611
53	SL500 Resil Ball Catch Kit	1017039
54	Anti-Twist Bracket	1016628
55	Top Pivot Assembly	1012549
56	Bottom Pivot Assembly	1012548
57	Square Threaded Rod Nut	1016327
58	Kit, Resilience Interlock Bar	1018093
59	Kit, Interlock Hook	1018059
60	Resilience Beam End Cap, Left	1016614
61	Resilience Beam End Cap, Right	1016613
62	M6 x 20 Hex Head Screw	93-09-723187
63	Tall Weatherstrip	US20-0905-01
64	Seal	US20-1658-01
65	7.5" Rail Clip	1019594
66	5" Anti-Twist Assembly Clip	1013803-3
67	4" Anti-Twist Assembly Clip	1013803-2
68	7" Anti-Twist Assembly Clip	1013897-2
69	10" Anti-Twist Assembly Clip	1013897-1
70	Rod, Threaded, 3/8"	50-09-100
71	Nut, 3/8-16 Whiz flange zinc	50-09-132
72	M6x12mm SHCS BLK Zinc	1703632
73	M5x8mm BHCS	1703508
74	Screw, HWH, 1/4-14x1" TEK	US09-1294-01
75	Anti-Twist Bracket	1019248
77	Resilience S/L Pivot Base Kit	1019262
78	Kit, Resilience Jamb Interlock Hook	1018092
79	Resilience Jamb Lock Strike	1017900
80	Lock Plate	US04-0948-01
Pos.	Description	Part.no.

81	1/4"x 1-3/4" HWH Elco Ultracon Conc. Anchor	1703636
82	3/16"x 1-3/4" HWH Elco Ultracon Conc. Anchor	1703635
83	1/4"x 3-1/4" PFH Elco Ultracon Conc. Anchor	1703634
84	1/4"-14 x 2" HWH #3 Pt SD ITW TEKS Screw	1703633
85	#14 x 2.5" PH Grade 5 Sheetmetal Screw	1703431
86	#10 x 2" PH Grade 5 Sheetmetal Screw	1703427
87	#14 x 4" RH Grade 5 Sheetmetal Screw	1703494
88	#14 x 3in FH Grade 5 Screw	1703426
89	Nut Plate, Interlock	1019247
90	Resilience Beam End Cap, Right	1016613
91	Resilience Beam End Cap, Left	1016614
92	PSA Arm Kit, HD	1017036
93	Resilience Carrier Lock Strike Assembly	1016637
94	Sweep	US20-1627-02
95	Ball Catch Kit, Carrier Portion, Resilience	US05-1609-01
96	Ball Catch Kit, Active Leaf Door Portion, Resilience	1017038
97	Sweep Clip	1013780
98	Resilience Shear Block	1016612
99	XG Lock Body Mounting Block	1019595
100	#10-32 x 1/2" Ultra Low Profile Socket Head Screw	1704073
101	XG Muntin 'L' Bracket, Resilience	1019660
102	M8x40mm BHCS Black	1703691
103	M8 x 18 SHCS	1703495
104	#10-16 x 5/8" PPH Tek Screw	53-09-003
105	M6x16mm Trilobe BHCS	1703493
106	M6 x 30 FH Threadforming Screw	1701704
107	M6x30mm HHCS	93-09-723187
109	M6 Steel Rivnut	US09-1560-01
110	M8 Steel Rivnut	1703429



	DWG NO.		DOC-1688253-FP
	DRAWN BY	DATE	7/19/2019
	SHEET DESCRIPTION		SHEET NO. 21 of 26

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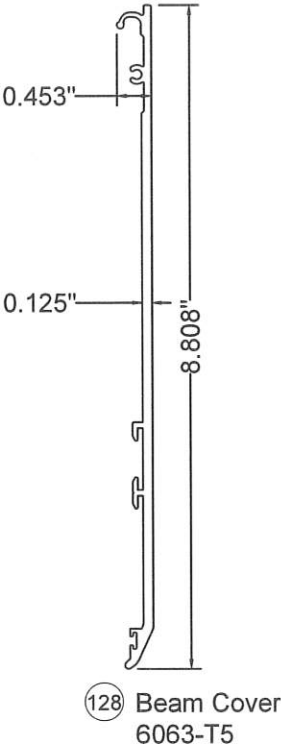
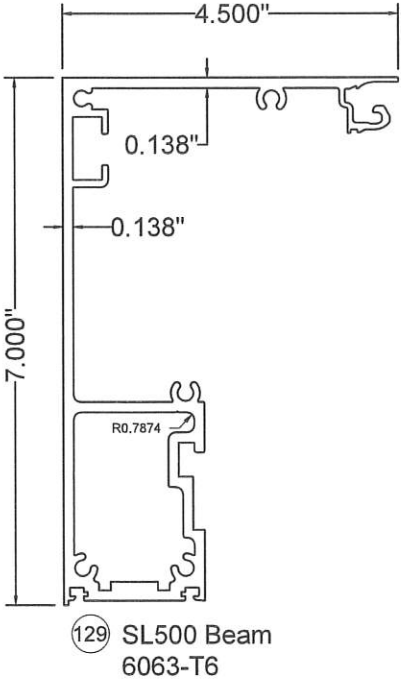


ASSA ABLOY ENTRANCE SYSTEMS
1900 AIRPORT ROAD
MONROE, NC 28110
PHONE: 1-866-237-2687

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

Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF
1	130-143 added, was 21 pages	9/4/26	SS

111	Carrier Positive Stop Bracket, Single Slide	1017002
112	Carrier Positive Stop Bracket, Bi-Part	1016615
113	AdamsRite 1870 Flush Bolt	1870-20-0XX
114	AdamsRite 4016 Header Bolt	4016-20-01
115	AdamsRite 8600 Exit Device - Optional	G86-11-XX
	NOTE: Items 113-115 include Concealed Rods	
116	Beam Interlock Hook	1016622
117	Level E Lock Guard, Left	1017889
118	Level E Lock Guard, Right	1017890
119	Jamb Interlock Strike	US04-0948
120	XG Lock Body Mounting Block	1019595
121	M6x60mm HHCS	1703666
122	M6 Hex Nut	04-09-726016
123	XG Muntin 'L' Bracket, Resilience	1019660
124	M6x25mm FHCS, Thread Former	1703678
125	FM2 - False Muntin	1018855
126	FM4 - False Muntin	1018856
127	Double Sided Adhesive Tape	
128	Alternate Beam Cover	1021588
129	Alternate SL500 Beam	1021586
130	Sealing Floor Plate	203-1689438
131	Threshold Sealing Block	203-1689443
132	Air Infiltration Block	203-1689448
133	Dual Seal-Holder Extrusion	EX-1675465
134	T-Seal	US20-1659-01
135	Active Leaf Threshold w/Lead-Up	EX-1675459
136	PSA Arm Install Hardware Kit	203-1595953
137	PSA Arm Adjustment Plate Kit	203-1595959
138	1/4" x 3 1/4" Simpson Titen Turbo HWH 316SS	203-1685803
139	1/4" x 3 1/4" Simpson Titen Turbo PFH 316SS	203-1685805
140	1/4" - 14 x 2" Dewalt Bi-Flex HWH Self Drilling	203-1685806
141	#14 x 2.5" PH 316SS Sheet Metal Screw	203-1685810
142	#10 x 2.5 PH 316SS Sheet Metal Screw	203-1685811
143	#14 x 3" FH 316SS Sheet Metal Screw	203-1685812
Pos.	Description	Part.no.



SCOTT WOLTERS
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SCOTT WOLTERS
FL PE# 62354

STATE OF
FLORIDA
OCT 02 2026

DWG NO. **DOC-1688253-FPA**

DRAWN BY **SJF** DATE **7/19/2019**

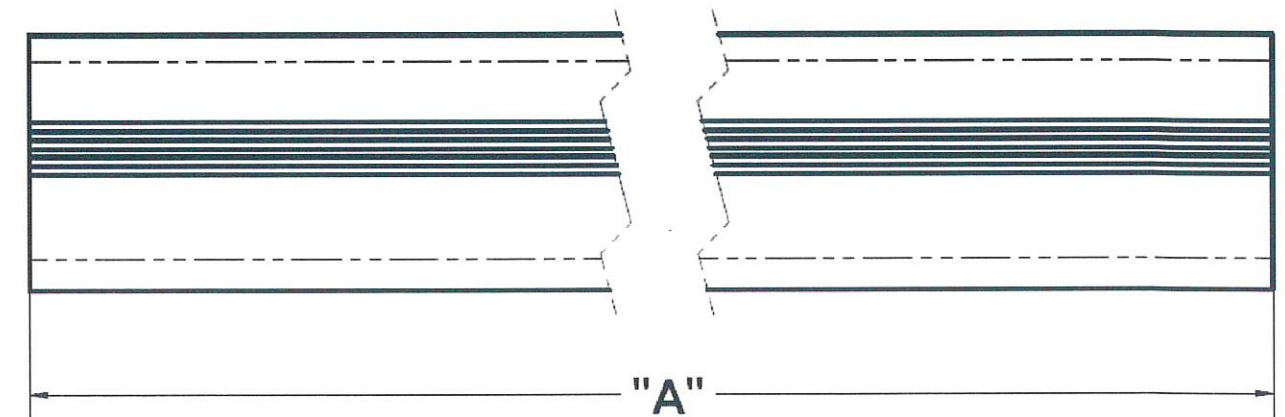
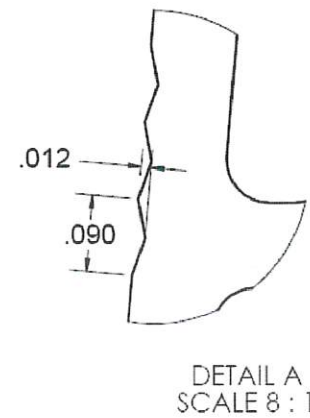
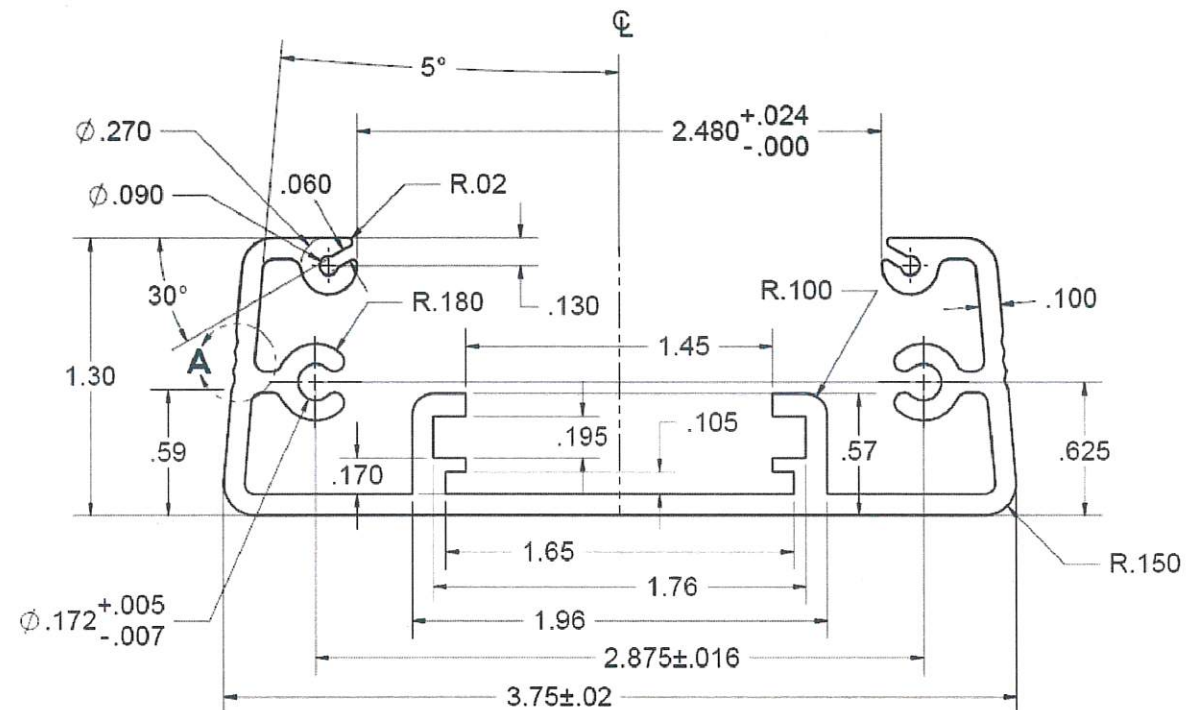
SHEET DESCRIPTION SHEET NO. **22 of 26**

ASSA ABLOY

Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF
1	Was 21 pages	9/4/26	SS

**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



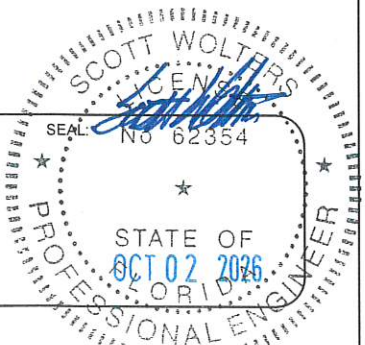
1. ALL DIMENSIONS ARE FINISHED DIMENSIONS.
2. BREAK ALL SHARP EDGES.
3. MATERIAL: 6063-T6 ALUMINUM. (13'-8" LONG).
4. HEAT TREAT: NONE.
5. FINISH: 60 RMS OR BETTER.
6. POST BAKE: NONE.

NOTES: UNLESS OTHERWISE SPECIFIED.

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

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
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15211 97TH ROAD N
WEST PALM BEACH, FL 33412
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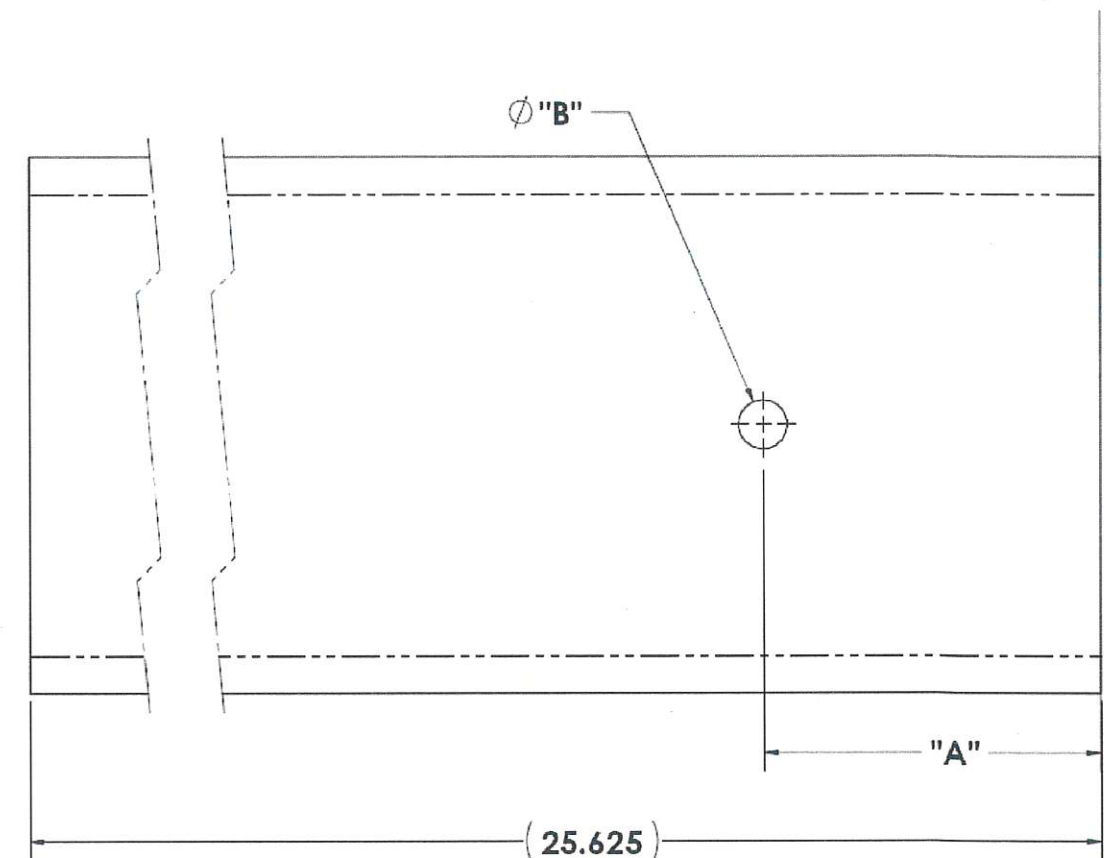
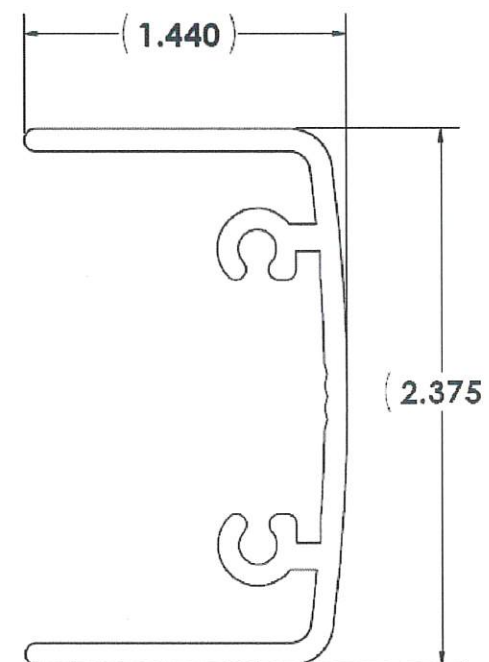
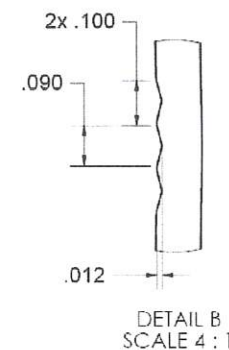
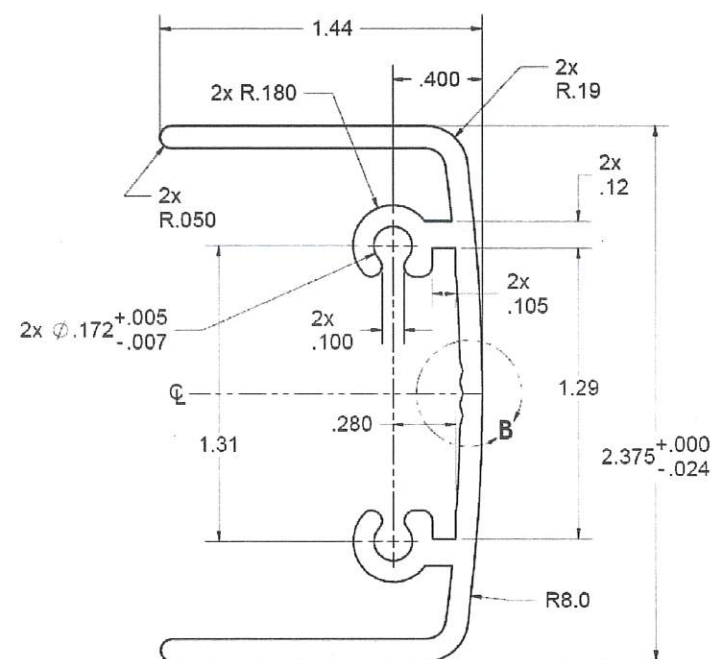
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DRAWN BY SJF		DATE 7/19/2019	
SHEET DESCRIPTION		SHEET NO. 23 of 26	

ASSA ABLOY

Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF
1	Was 21 pages	9/4/26	SS

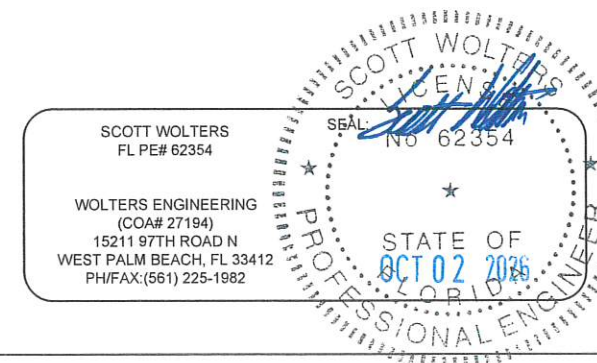
**ASSA ABLOY SL500 RESILIENCE FULL BREAKOUT
LARGE & SMALL MISSILE IMPACT LEVEL D AND LEVEL E DOOR SYSTEM
ITEM NO. 115 - ADAMS RITE G86 (8600) EXIT DEVICE EXTRUSION
DETAILS - EXTERIOR EXTRUSION**

EXTRUSION
PUSH BAR G8X



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

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.

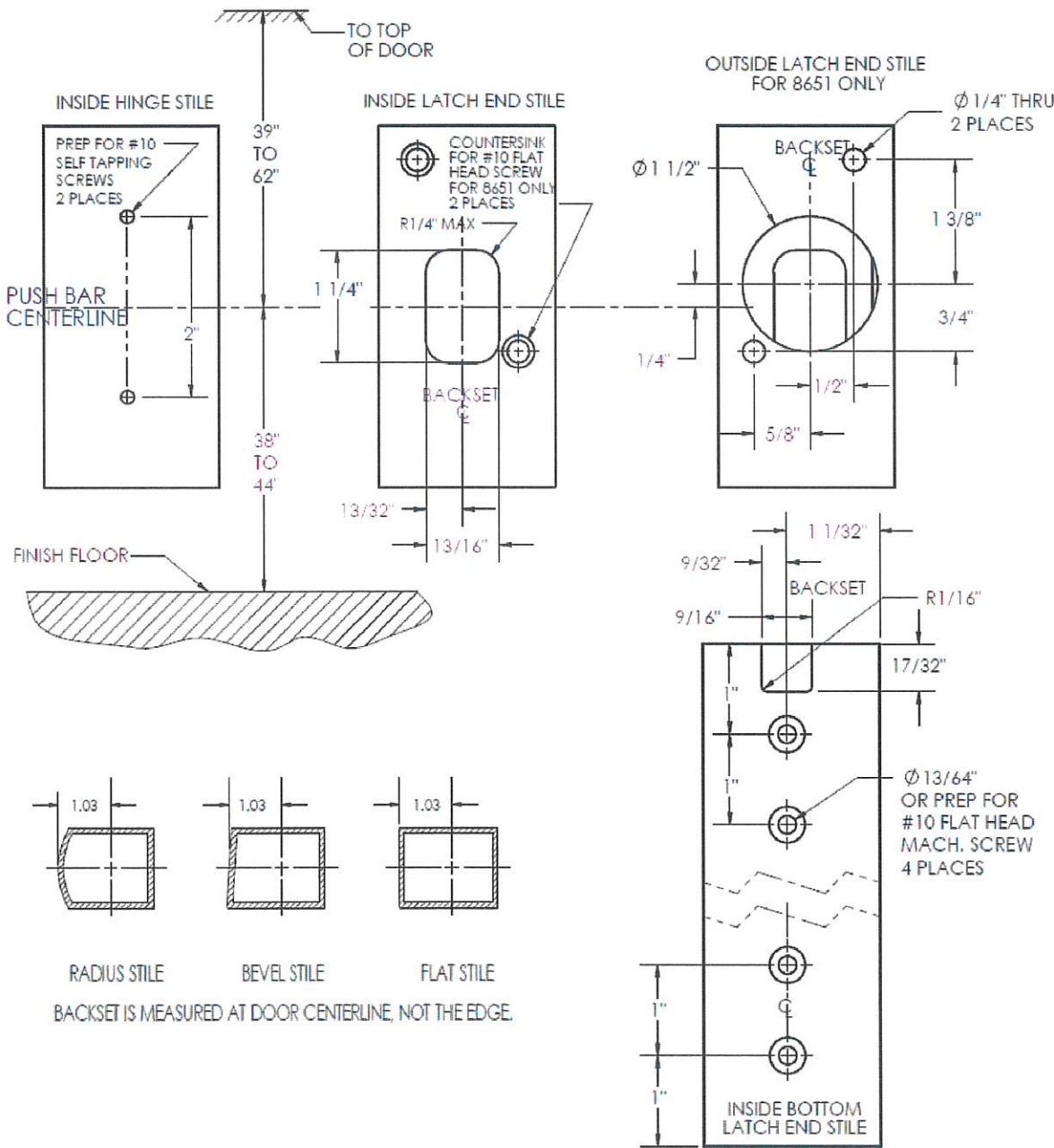


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DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	SHEET NO. 24 of 26
ASSA ABLOY	

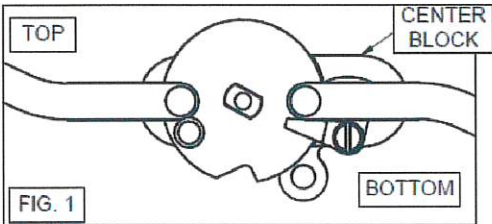
Revisions			
Rev	Description	Date	Approved
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**ASSA ABLOY SL500 RESILIENCE FULL BREAKOUT
LARGE & SMALL MISSILE IMPACT LEVEL D AND LEVEL E DOOR SYSTEM
ITEM NO. 115 - ADAMS RITE G86 (8600) EXIT DEVICE
INSTALLATION DETAIL - SHEET 1**

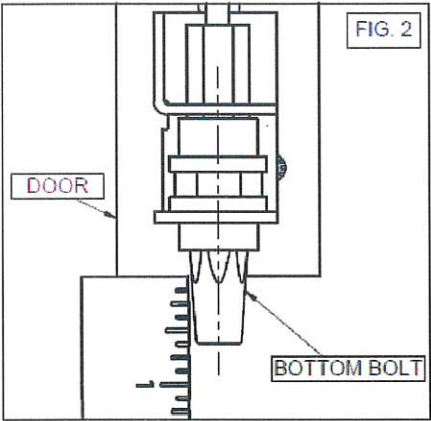
1. Prepare doors as shown. This product must be installed according to all applicable building and life safety codes.



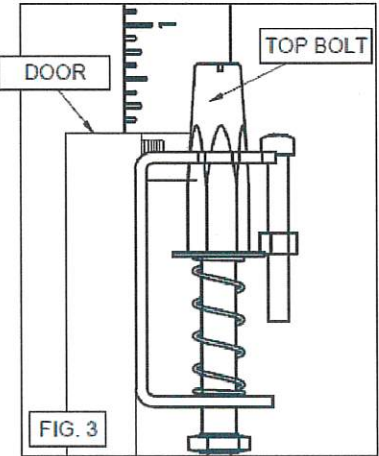
2. Pre-adjust rod assembly.
a. Lay rod assembly on the face of the door with center block protruding into installation hole.
b. Fully extend rods as shown.



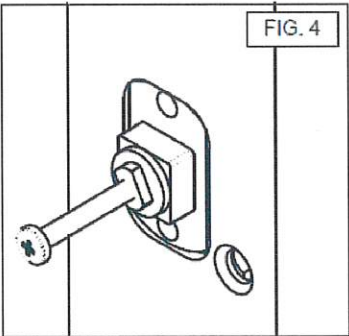
c. Adjust bottom bolt for 5/8" projection from bottom of door.



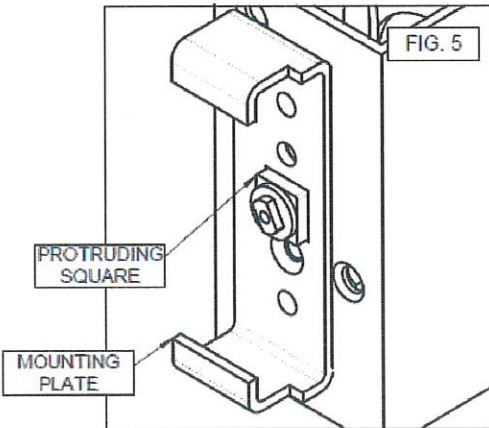
d. Set the top bolt for 5/8" projection from top of door.



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 at least 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.

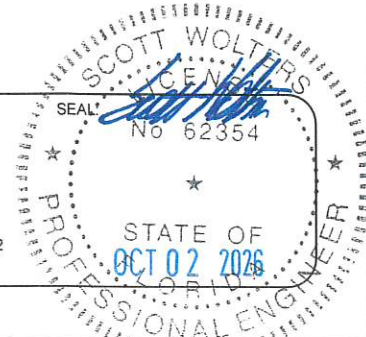


Revisions

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15211 97TH ROAD N
WEST PALM BEACH, FL 33412
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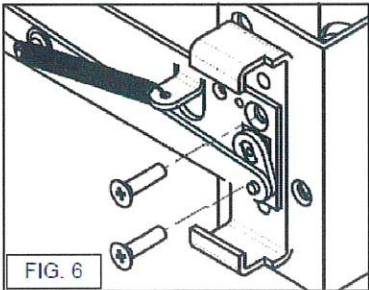
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DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	SHEET NO. 25 of 26

ASSA ABLOY

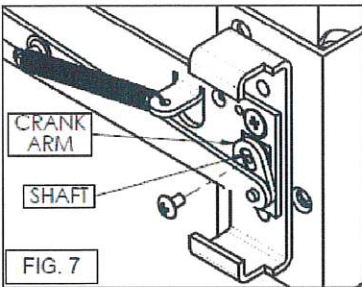
Revisions			
Rev	Description	Date	Approved
0	Initial Release		SJF
1	Was 21 pages	9/4/26	SS

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

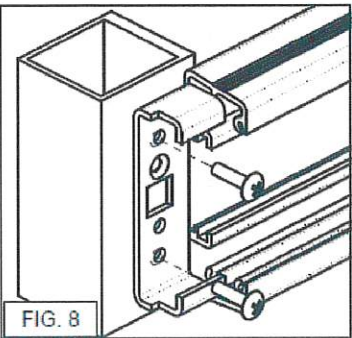
f. Place scissor cartridge on center block and secure with two 10-32 x 3/4" flat head machine screws.



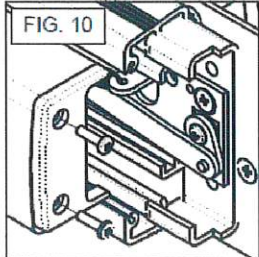
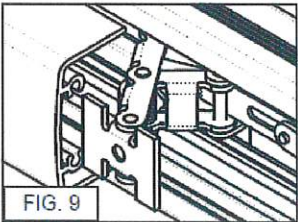
7. Secure crank arm
a. Remove helper screw.
b. Align crank arm with shaft. You may have to operate the push bar scissors to align tab with slot.
c. Secure with one 6-32 x 1/4" truss head machine screw.



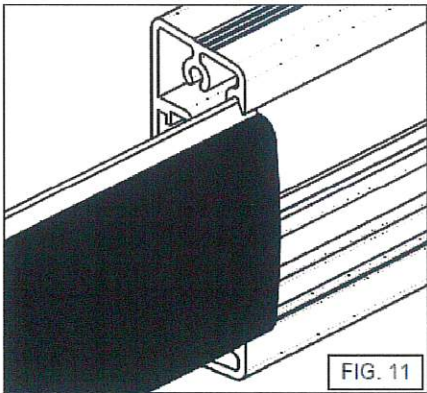
8. Insert mounting plate from the hinge side onto the back bar and secure with two 10-32 x 3/4" self-tapping screws on the triangle side stile.



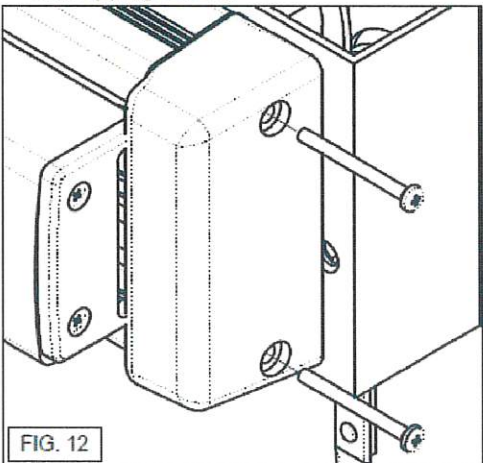
9. Insert push bar and secure end caps with four 10-32 x 1/2" self-tapping screws.



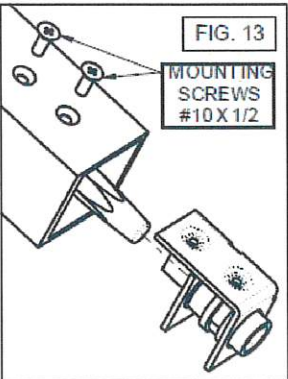
10. Insert cover strip into back bar. Push in until flush with back bar extrusion.



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

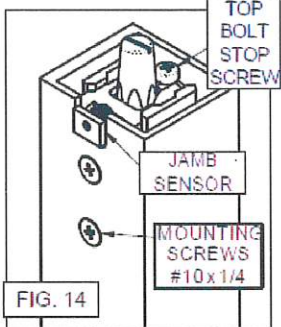


12. Insert bottom bolt (Fig. 13) guide with the plastic guide towards the bottom. And secure with two 10-32x1/2" flat head machine screws. The bottom screw will lock the bottom bolt adjustment, leave this screw loose until final adjustment.



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.

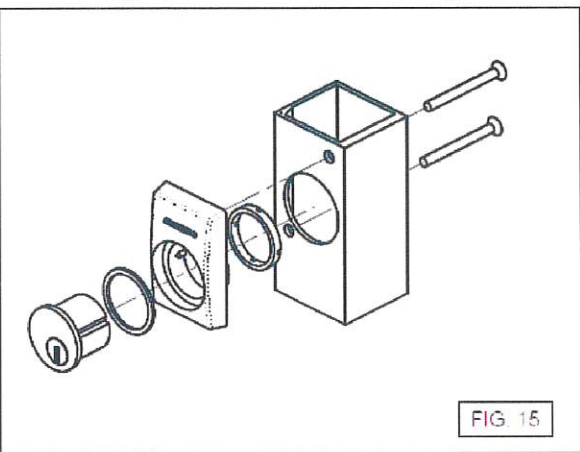
20. If you have excessive door gaps at the top or bottom, you may adjust the bolts for greater engagement with the header or threshold.

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

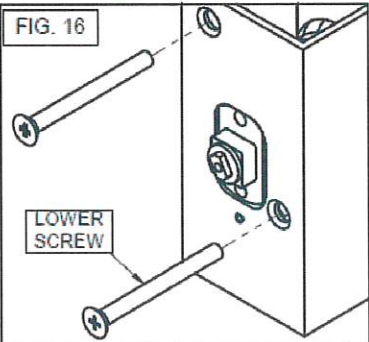


the cylinder cam from bottoming out on the center block assembly.

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)

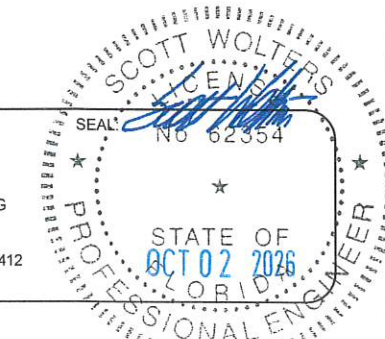
c. Once the installation is complete, check operation by turning the key a quarter turn counter clockwise to 'open' the door. Remove the key and close the door, it should lock.

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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