



**MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION**

**DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION**

11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**NOTICE OF ACCEPTANCE (NOA)**

**ASSA ABLOY Entrance System US, Inc.  
1900 Airport Road  
Monroe, NC 28110**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Series "SL-500 Resilience R104" Sliding Glass Door System Bi-Parting and Single Sliding Level E (80 ft/s) -LMI**

**APPROVAL DOCUMENT:** Drawing No. **SL500-R104FBO-E-HVHZ** titled "Series SL-500 Resilience R104 Sliding Door System Bi-Parting and Single Sliding Level E (80 ft/s)", sheets 1 through 21 of 21, dated 07/19/2019 with revision 2 dated on 03/03/2020, prepared by manufacture, signed and sealed by Scott Wolters, P.E. signed and sealed on 02/22/2021, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Impact Resistant**

**Limitations:**

1. Max panel widths not to exceed per sheet 2 (So-Sx-Sx-So) and sheet 3 (So-Sx).
2. Not approved where water infiltration is required.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA#20-0106.04**, consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Sifang Zhao, P.E.**



*S.Z.*

05/27/2021

**NOA No. 21-0324.08**  
**Expiration Date: March 19, 2025**  
**Approval Date: May 27, 2021**  
**Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOAS'**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections. *(Submitted under NOA No. 20-0106.04)*
2. Drawing No. **SL500-R104FBO-E-HVHZ** titled "Series SL-500 Resilience R104 Sliding Door System Bi-Parting and Single Sliding Level E (80 ft/s)", sheets 1 through 21 of 21, dated 07/19/2019 with revision 2 dated on 03/03/2020, prepared by manufacture, signed and sealed by Scott Wolters, P.E. *(Submitted under NOA No. 20-0106.04)*

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94 (**0.79** cfm/ft<sup>2</sup> @ **1.57** PSF)  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94 (Not conducted)  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
along with installation diagram of an aluminum automatic sliding glass doors, prepared by Intertek, Test Report Nos. **J5787.04-550-18, J5787.05-550-18, J5787.06-550-18, J5787.07-550-18** and **J5787.08-550-18** dated 08/16/19, signed and sealed by Vinu Abraham, P.E. *(Submitted under NOA No. 20-0106.04)*

**C. CALCULATIONS**

1. Anchor verification calculations dated 12/06/2019, prepared by Wolters engineering, signed and sealed by Scott Wolters, P.E. *(Submitted under NOA No. 20-0106.04)*
2. Glazing complies w/ ASTM E-1300-09.

**D. QUALITY ASSURANCE**

1. Miami Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **17-0808.02** issued to Kuraray America, Inc. for the "**Sentry Glass ® Interlayer**", expiring on 07/04/23.

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2017 (**6<sup>th</sup>** Edition), dated 12/06/2019, prepared by Wolters engineering, signed and sealed by Scott Wolters, P.E.
2. Statement letter of "No financial interest", dated 12/06/2019, prepared by Turner engineering & consulting Inc, signed and sealed by Scott Wolters, P.E.
3. Lab compliance, prepared by Intertek, signed and sealed by Vinu Abraham, P.E.

**G. OTHER**

1. Test proposal # **19-0078**, dated March 22, 2019, approved by RER.



Sifang Zhao, P.E.  
Product Control Examiner  
NOA No. 21-0324.08  
Expiration Date: March 19, 2025  
Approval Date: May 27, 2021

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **SL500-R104FBO-E-HVHZ** titled “Series SL-500 Resilience R104 Sliding Door System Bi-Parting and Single Sliding Level E (80 ft/s)”, sheets 1 through 21 of 21, dated 07/19/2019 with revision 2 dated on 03/03/2020, prepared by manufacture, signed and sealed by Scott Wolters, P.E. signed and sealed on 02/22/2021.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

1. Miami Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **20-0915.19** issued to Kuraray America, Inc. for the “**Sentry Glass ® Interlayer**”, expiring on 07/04/23.

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2020 (7<sup>th</sup> Edition), dated 02/22/2021, prepared by Wolters engineering, signed and sealed by Scott Wolters, P.E.

**G. OTHER**

1. This NOA revises NOA No. **20-0106.04**, expiring on 03/19/2025.



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Sifang Zhao, P.E.  
Product Control Examiner  
NOA No. 21-0324.08  
Expiration Date: March 19, 2025  
Approval Date: May 27, 2021



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  
IMPACT LEVEL E (80 FT/S)

Revisions			
Rev	Description	Date	Approved
2	Formatting updates	3/3/20	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, INCLUDING THE HVHZ PROVISIONS. THIS PRODUCT IS LEVEL E LARGE MISSILE IMPACT RESISTANT, SHUTTERS ARE NOT REQUIRED.
2. MAX. DESIGN PRESSURES = +/- 80 PSF.
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.

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 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.

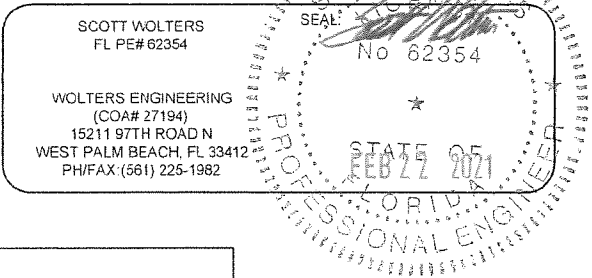
Sheet

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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  
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

DESIGN PRESSURE	IMPACT RATING
+/- 80 PSF	LEVEL E LARGE AND SMALL MISSILE IMPACT RESISTANT (80 FT/S)



**PRODUCT REVISED**  
**as complying with the Florida**  
**Building Code**  
**NOA-No. 21-0324.08**  
**Expiration Date 03/19/2025**  
**By**   
**Miami-Dade Product Control**

DWG NO.	SL500-R104FBO-E-HVHZ		
DRAWN BY	SJF	DATE	7/19/2019
SHEET DESCRIPTION		SHEET NO.	
General Notes, Corner Construction		1 OF 21	



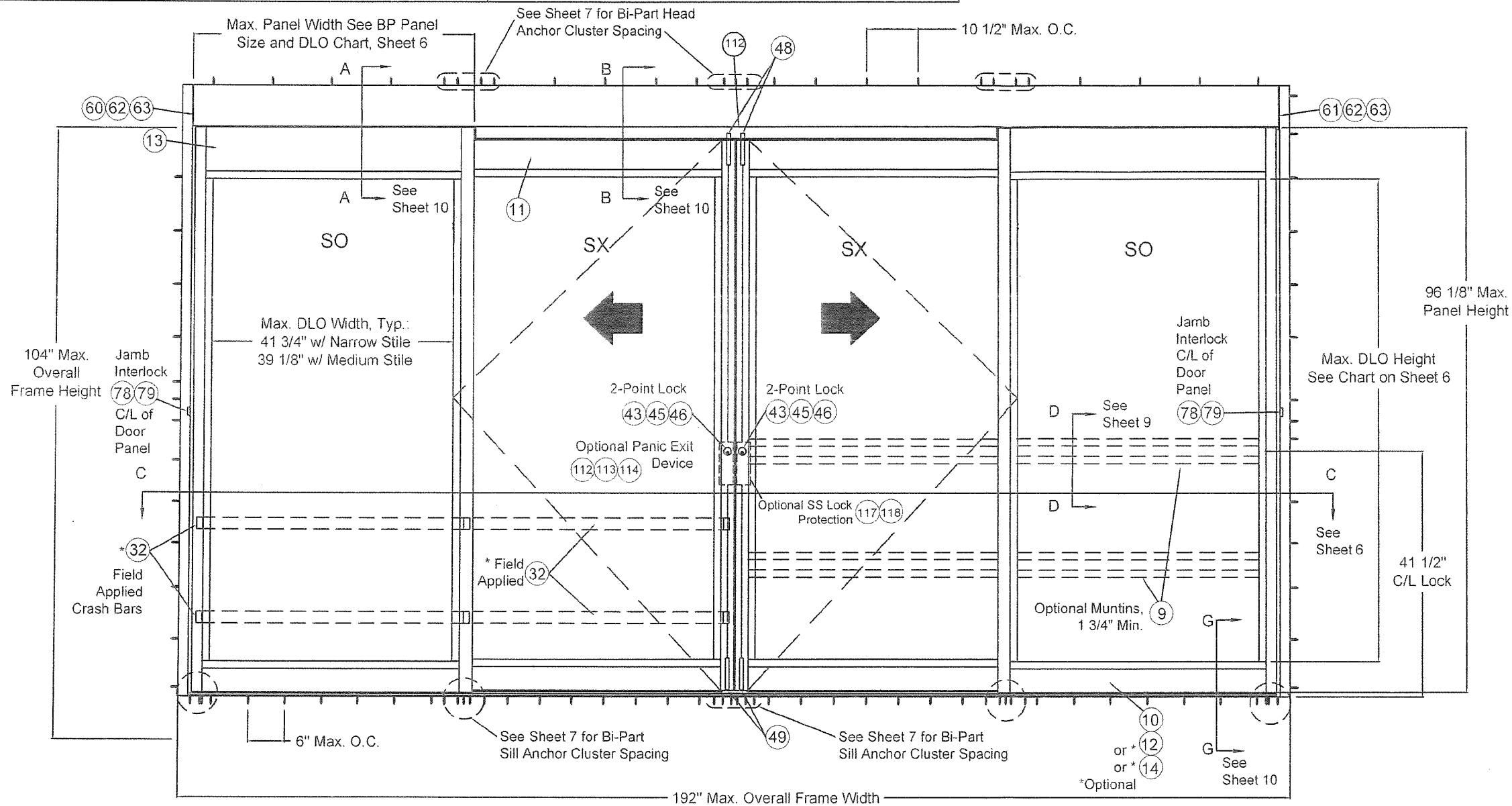
**ASSA ABLOY**

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  
IMPACT LEVEL E (80 FT/S)

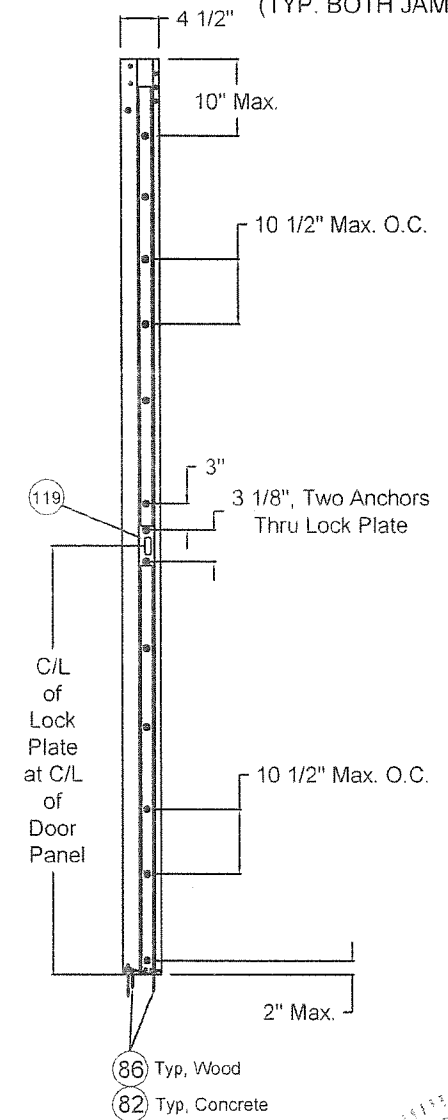
NOTE: See Sheet 6 for Bi-Part  
Head Anchor Locations

Revisions			
Rev	Description	Date	Approved
2	Formatting updates	3/3/20	SJF

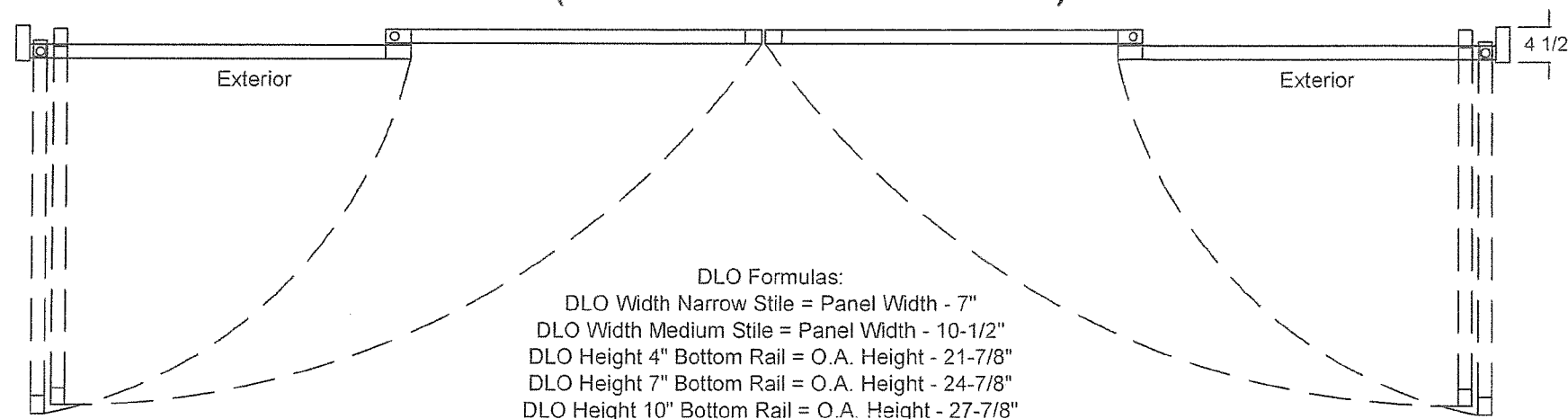


**SIDELITE JAMB**

(TYP. BOTH JAMBS)



**BP FBO (4 Panels Bi-Part 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"

SCOTT WOLTERS  
FL PE# 62354

WOLTERS ENGINEERING  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
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SEAL  
No 62354

STATE OF

FLORIDA

PROFESSIONAL ENGINEER

FEB 22 2021

**PRODUCT REVISED**  
as complying with the Florida  
Building Code

NOA-No. 21-0324.08

Expiration Date 03/19/2025

By *[Signature]*  
Miami-Dade Product Control

DWG NO.	SL500-R104FBO-E-HVHZ
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	Bi-Part Elevation, Jamb Anchoring Locations
SHEET NO.	2 OF 21

**ASSA ABLOY**

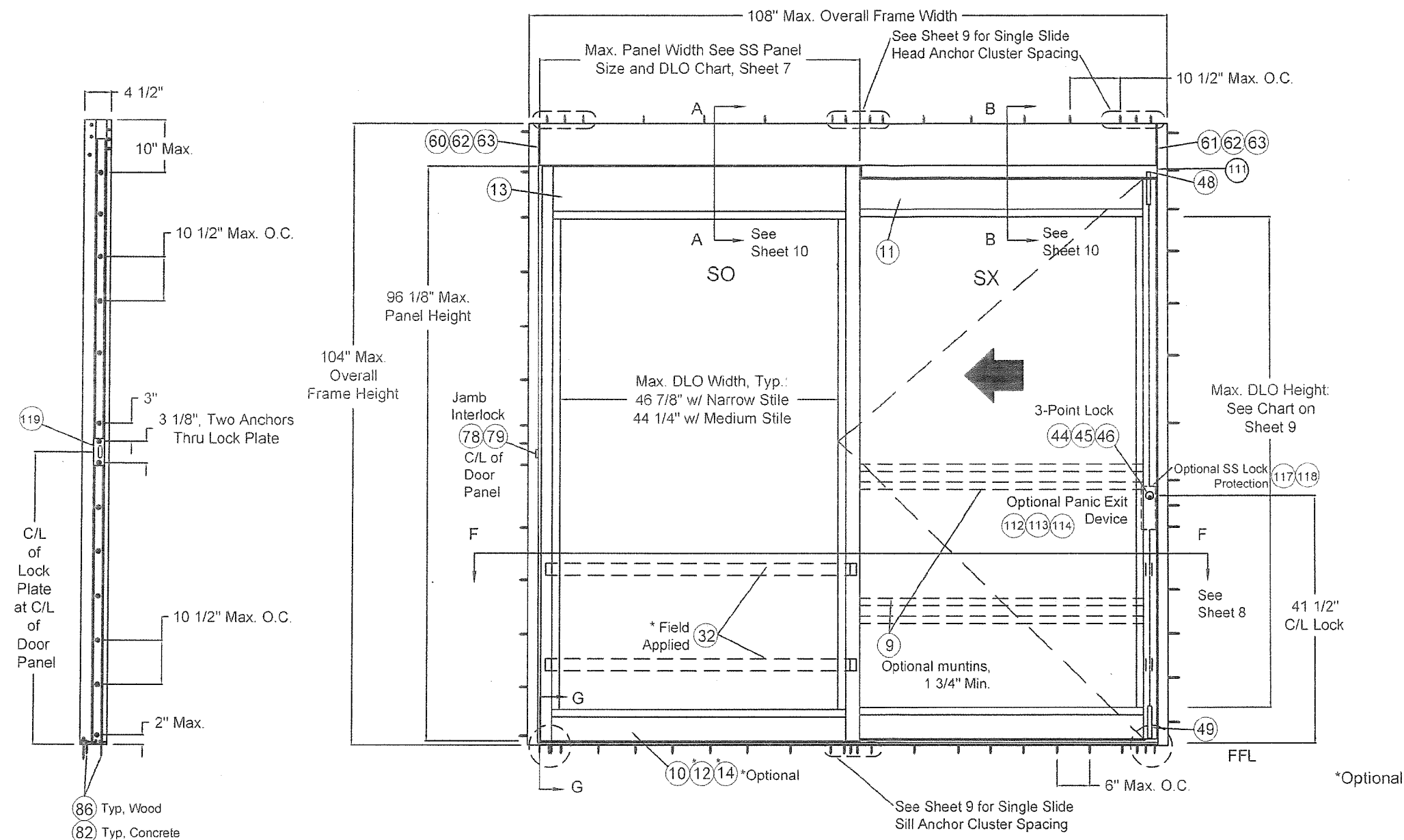
**ASSA ABLOY**

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SL500 RESILIENCE R104 SLIDING DOOR SYSTEM  
BI-PARTING AND SINGLE SLIDING  
IMPACT LEVEL E (80 FT/S)

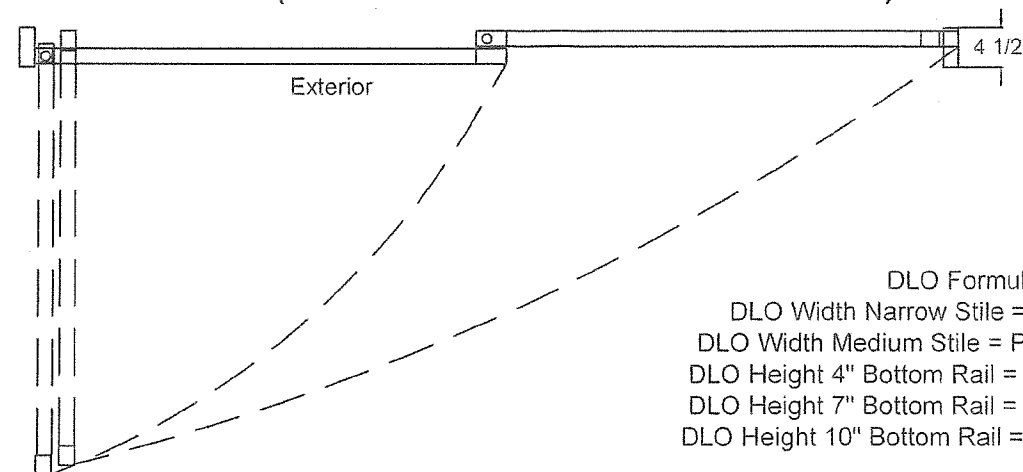
NOTE: See Sheet 8 for Single Slide  
Head Anchor Locations

Revisions			
Rev	Description	Date	Approved
2	Formatting updates	3/3/20	SJF

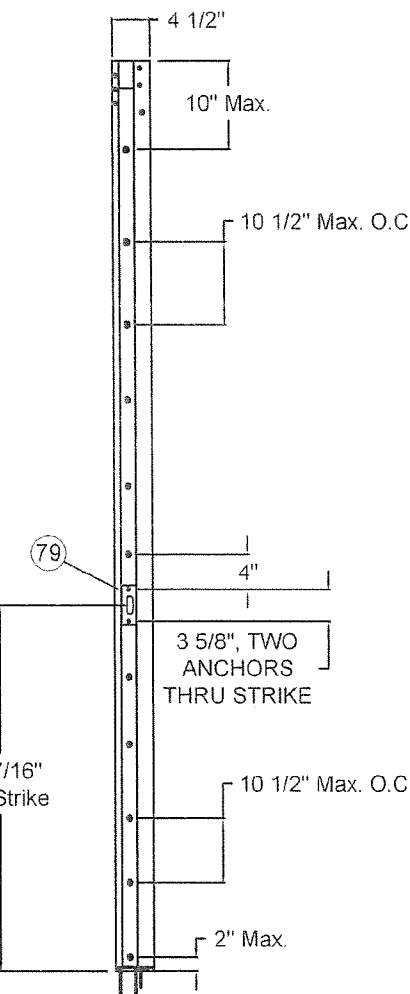


SIDELITE JAMB

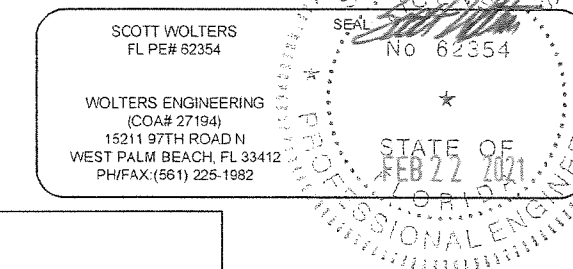
LH FBO (2 Panels Left-Hand Full Breakout)



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



**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0324.08  
Expiration Date 03/19/2025  
By *[Signature]*  
Miami-Dade Product Control

DWG NO.	SL500-R104FBO-E-HVHZ
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	Single Slide Elevation, Jamb Anchoring Locations
SHEET NO.	3 OF 21

**ASSA ABLOY**

ASSA ABLOY

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1900 AIRPORT ROAD  
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PHONE: 1-866-237-2687

ASSA ABLOY  
SL500 RESILIENCE R104 SLIDING DOOR SYSTEM  
BI-PARTING AND SINGLE SLIDING  
IMPACT LEVEL E (80 FT/S)

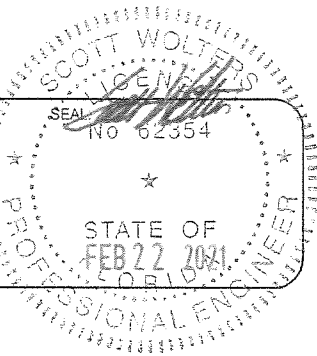
Revisions			
Rev	Description	Date	Approved
2	Formatting updates	3/3/20	SJF

SINGLE SLIDE - MAXIMUM DESIGN PRESSURE				
GLASS TYPE	IMPACT RATING	LOCKING HARDWARE	MAX. FRAME SIZE (in)	MAX. DESIGN PRESSURE (psf)
GLASS TYPE 3	LMI - MISSILE E	3 PT. LOCK ADAMS-RITE 8600	108" x 104" 108" x 104"	80 80

BI-PARTING - MAXIMUM DESIGN PRESSURE				
GLASS TYPE	IMPACT RATING	LOCKING HARDWARE	MAX. FRAME SIZE (in)	MAX. DESIGN PRESSURE (psf)
GLASS TYPE 3	LMI - MISSILE E	3 PT. LOCK ADAMS-RITE 8600	192" x 104" 192" x 104"	80 80

SCOTT WOLTERS  
FL PE# 62354

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



**PRODUCT REVISED**  
**as complying with the Florida**  
**Building Code**  
**NOA-No.** 21-0324.08  
**Expiration Date** 03/19/2025  
**By**   
**Miami-Dade Product Control**

DWG NO.	SL500-R104FBO-E-HVHZ		
DRAWN BY	SJF	DATE	7/19/2019
SHEET DESCRIPTION		SHEET NO.	
Design Pressure Charts		4 OF 21	

ASSA ABLOY

ASSA ABLOY

ASSA ABLOY ENTRANCE SYSTEMS  
1900 AIRPORT ROAD  
MONROE, NC 28110  
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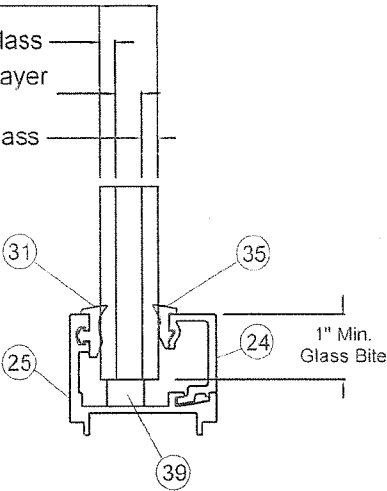
ASSA ABLOY  
SL500 RESILIENCE R104 SLIDING DOOR SYSTEM  
BI-PARTING AND SINGLE SLIDING  
IMPACT LEVEL E (80 FT/S)

Revisions			
Rev	Description	Date	Approved
2	Formatting updates	3/3/20	SJF

Glass Type 3  
9/16" LAMINATED GLASS

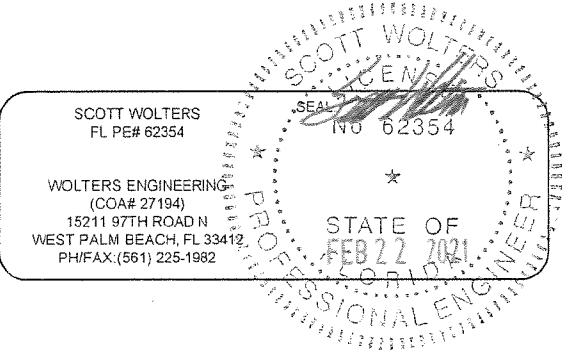
9/16" Laminated 'D' Impact Glass  
(.680" actual)

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



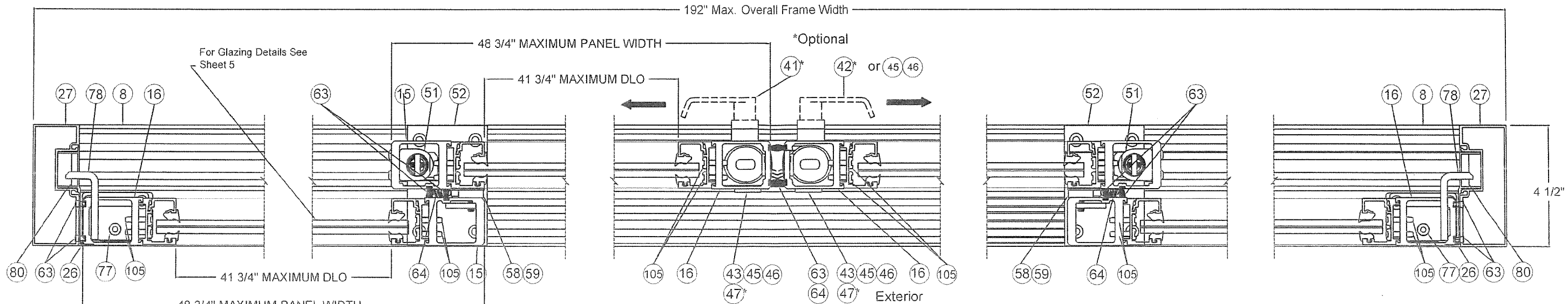
**PRODUCT REVISED**  
**as complying with the Florida**  
**Building Code**  
**NOA-No.** 21-0324.08  
**Expiration Date** 03/19/2025  
**By**   
**Miami-Dade Product Control**

DWG NO. SL500-R104FBO-E-HVHZ	
DRAWN BY SJF	DATE 7/19/2019
SHEET DESCRIPTION Glazing Details	SHEET NO. 5 OF 21

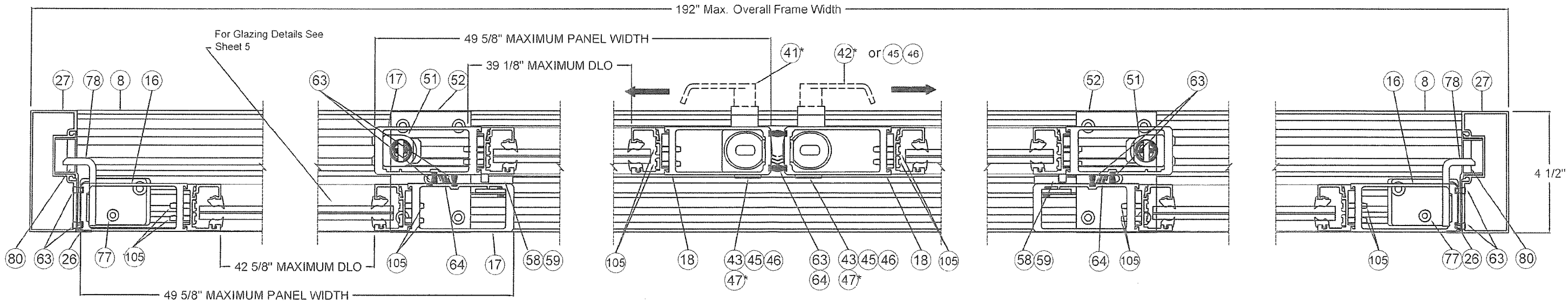
ASSA ABLOY



Revisions			
Rev	Description	Date	Approved
2	Formatting updates	3/3/20	SJF

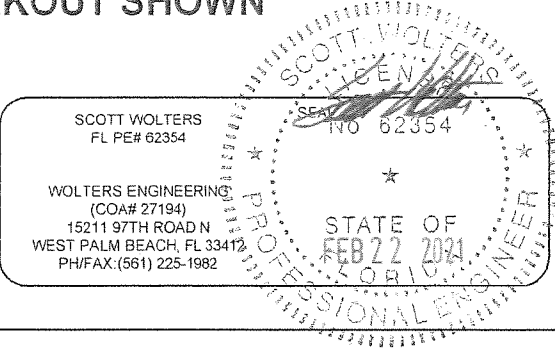


Section C-C, Narrow Stile  
BI-PARTING FULL BREAKOUT SHOWN



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"	42 5/8"
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"



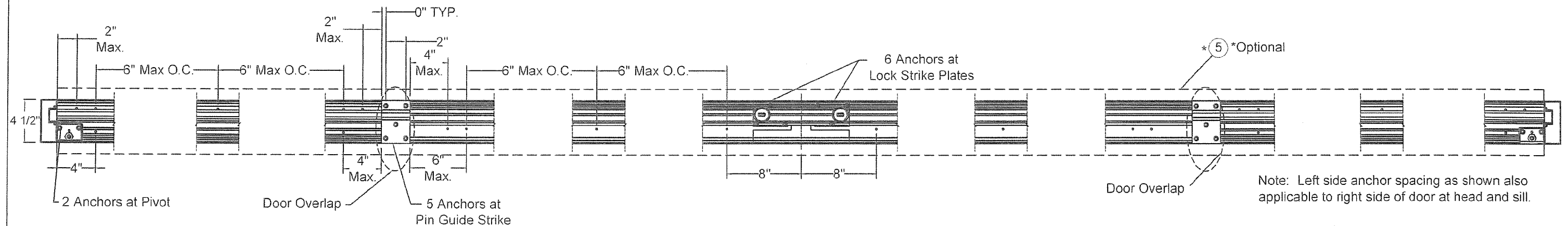
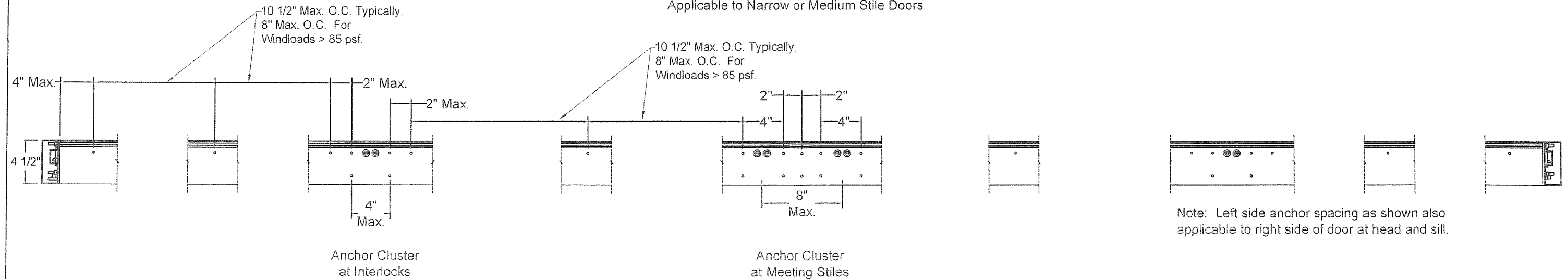
**PRODUCT REVISED**  
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Building Code  
NOA-No. 21-0324.08  
Expiration Date 03/19/2025  
By *[Signature]*  
Miami-Dade Product Control

DWG NO.	SL500-R104FBO-E-HVHZ
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	Bi-Part Section Views
SHEET NO.	6 OF 21

Revisions			
Rev	Description	Date	Approved
2	Formatting updates	3/3/20	SJF

## BI-PART HEAD ANCHOR LOCATIONS

Applicable to Narrow or Medium Stile Doors



## BI-PART SILL ANCHOR LOCATIONS

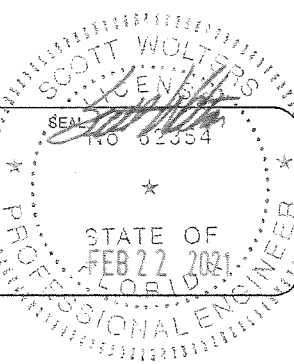
Applicable to Narrow or Medium Stile Doors

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"	42 5/8"
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

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NOA-No. 21-0324.08

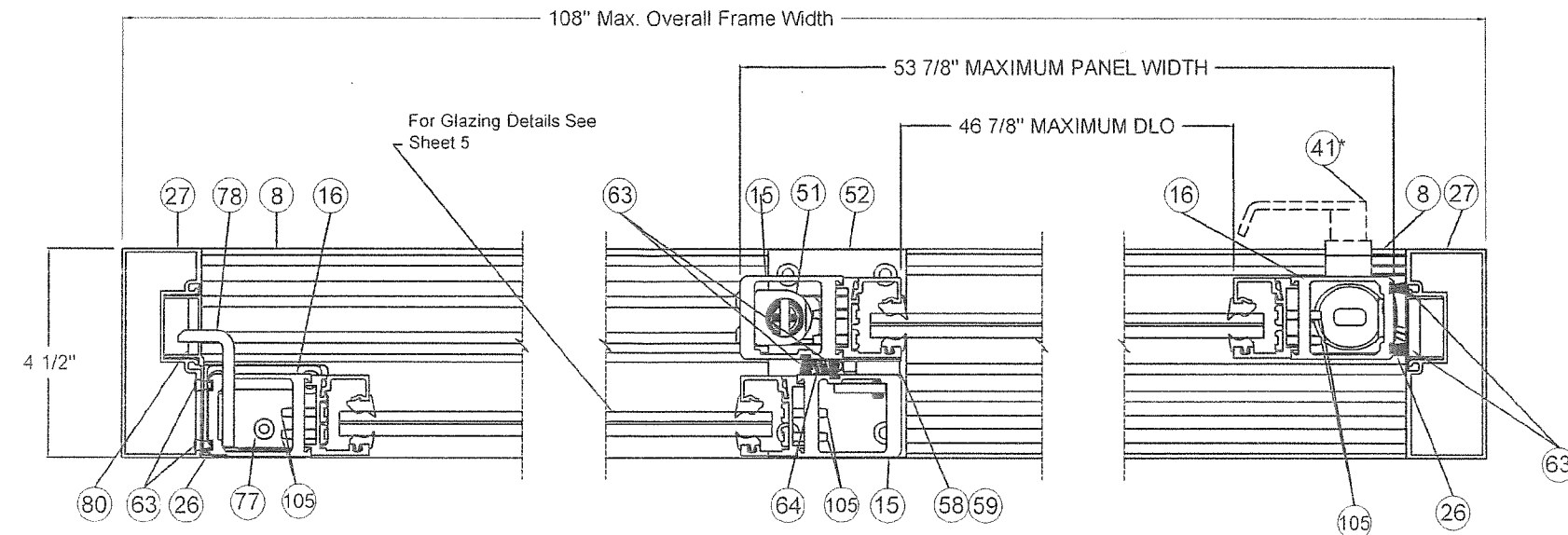
Expiration Date 03/19/2025

By *[Signature]*  
Miami-Dade Product Control

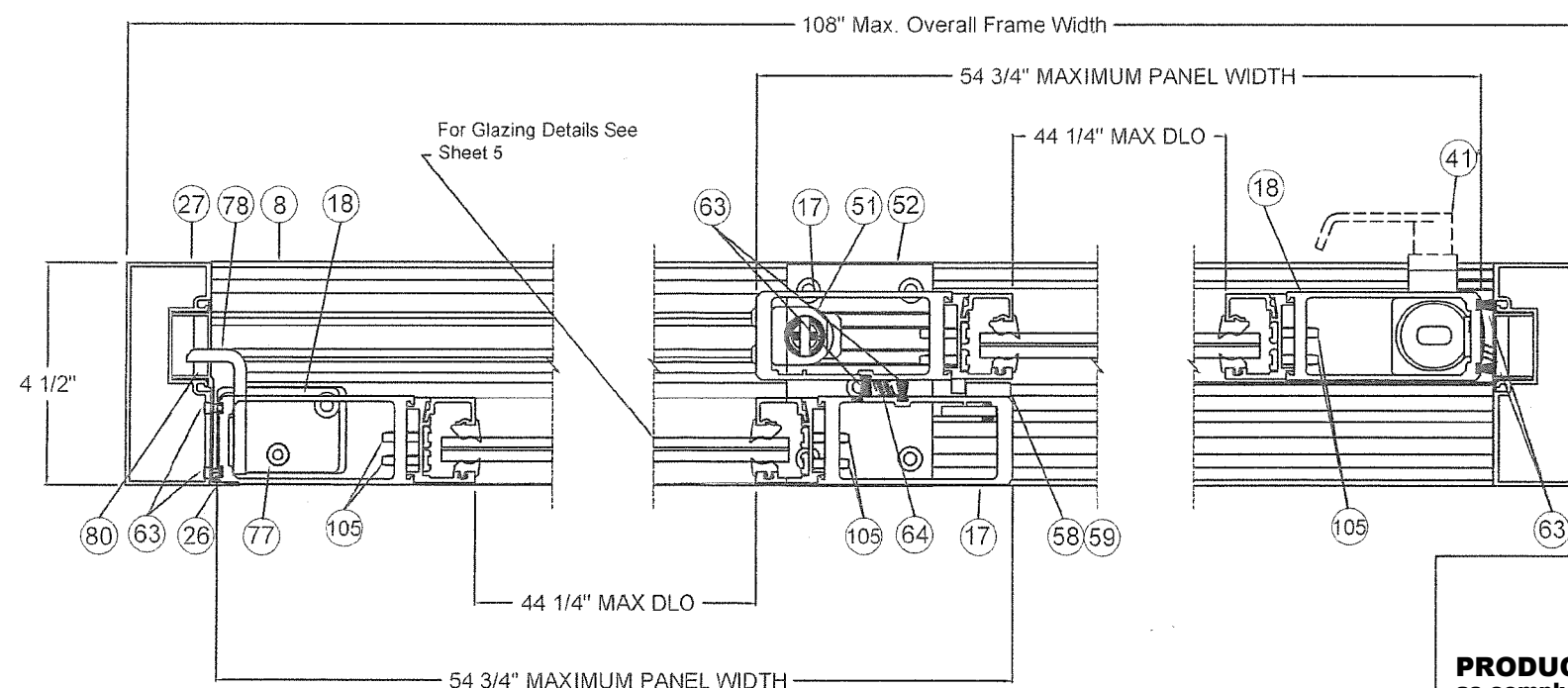
DWG NO.	SL500-R104FBO-E-HVHZ
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	Bi-Part Head and Sill Anchoring Locations
SHEET NO.	7 OF 21

**ASSA ABLOY**

Revisions			
Rev	Description	Date	Approved
2	Formatting updates	3/3/20	SJF



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



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

SCOTT WOLTERS  
FL PE# 62354  
No 62354  
WOLTERS ENGINEERING  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FAX: (561) 225-1982  
STATE OF FLORIDA  
FEB 22 2021  
PROFESSIONAL ENGINEER

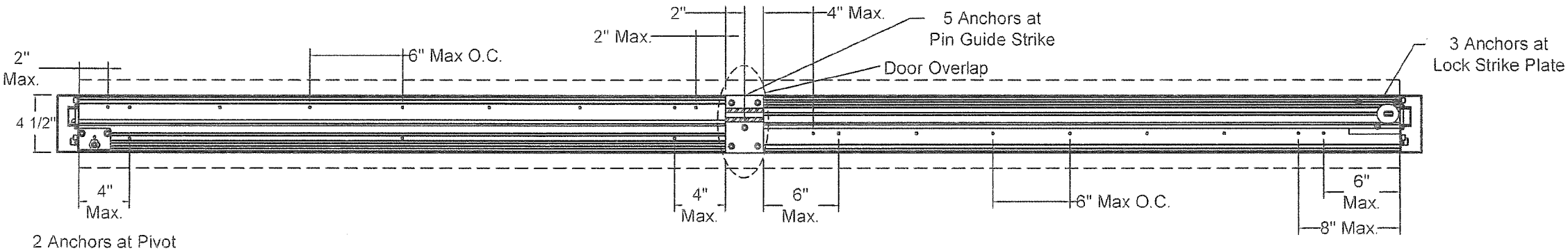
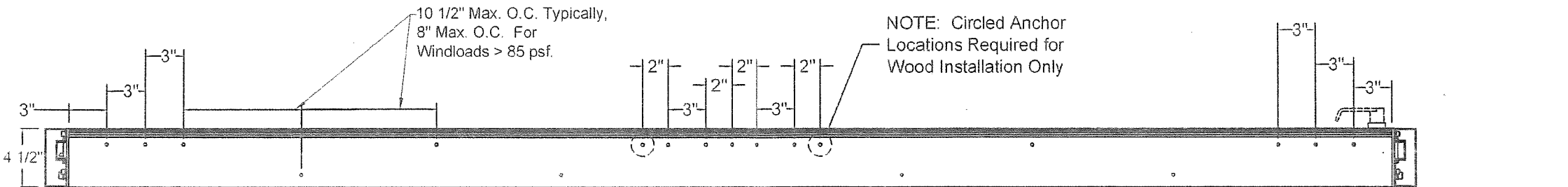
Single Slide Panel Size and Daylight Opening Chart		
Door Stile	Maximum Panel Width	Maximum DLO Width
Narrow	53 7/8"	46 7/8"
Medium	54 3/4"	47 3/4"
Bottom Rail	Maximum Panel Height	Maximum DLO Height
4"	96 1/8"	82 1/8"
7"	96 1/8"	79 1/8"
10"	96 1/8"	76 1/8"

**PRODUCT REVISED**  
**as complying with the Florida Building Code**  
**NOA-No.** 21-0324.08  
**Expiration Date** 03/19/2025  
**By** *[Signature]*  
**Miami-Dade Product Control**

DWG NO.	SL500-R104FBO-E-HVHZ
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	Single Slide Section Views
SHEET NO.	8 OF 21

Revisions			
Rev	Description	Date	Approved
2	Formatting updates	3/3/20	SJF

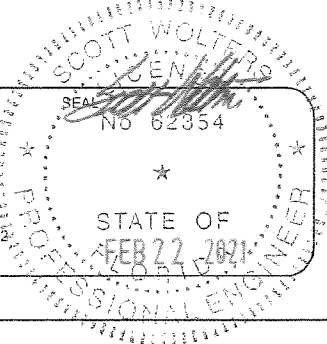
SINGLE-SLIDE HEAD ANCHOR LOCATIONS



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"	47 3/4"
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  
WOLTERS ENGINEERING  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FAX: (561) 225-1982

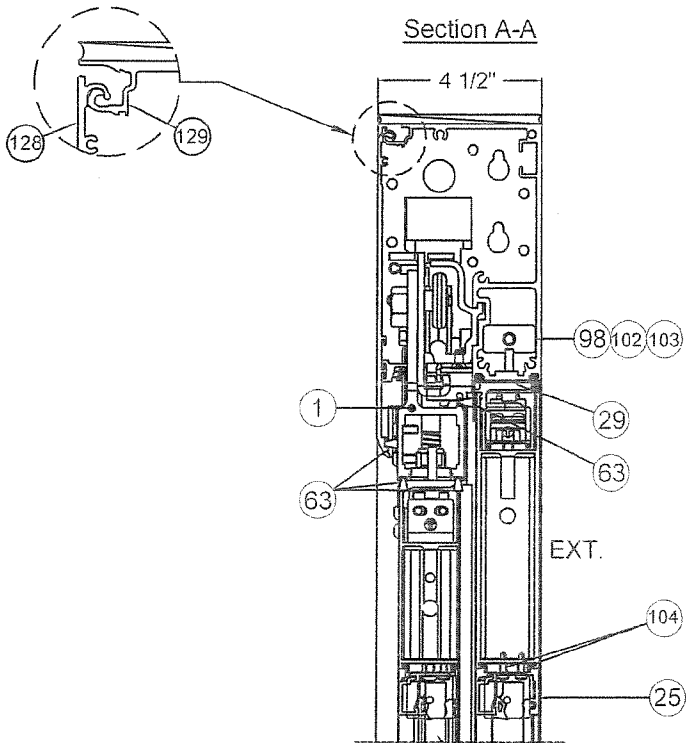


**PRODUCT REVISED**  
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Building Code  
NOA-No. 21-0324.08  
Expiration Date 03/19/2025  
By *[Signature]*  
Miami-Dade Product Control

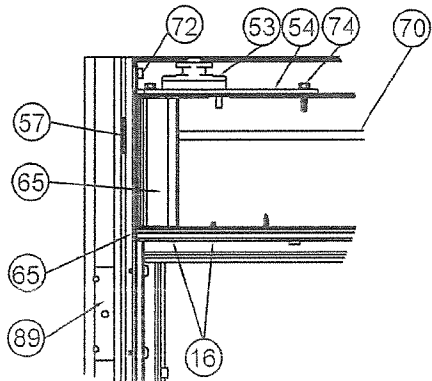
DWG NO.	SL500-R104FBO-E-HVHZ	
DRAWN BY	SJF	DATE 7/19/2019
SHEET DESCRIPTION	Single Slide Head and Sill Anchoring Locations	SHEET NO. 9 OF 21

Revisions			
Rev	Description	Date	Approved
2	Formatting updates	3/3/20	SJF

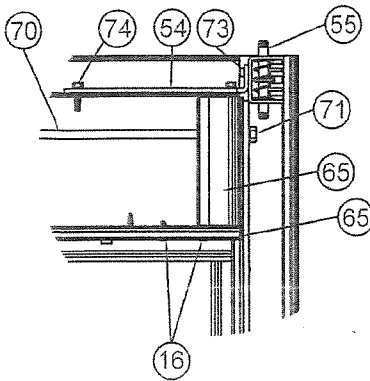
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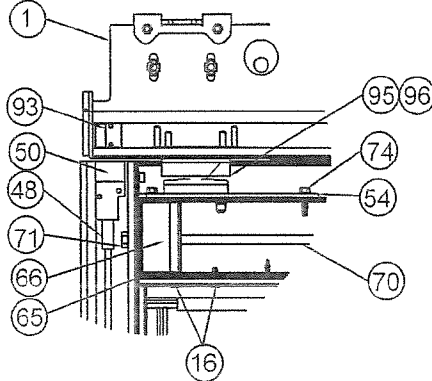
Sidelite Top Corner- Lead Side



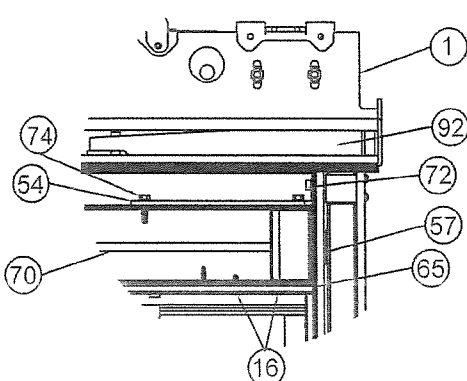
Sidelite Top Corner- Pivot Side



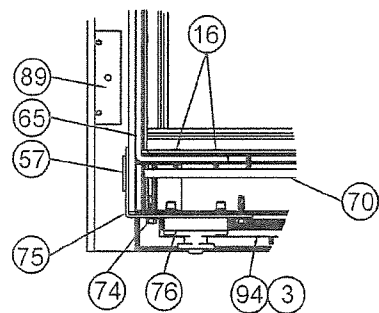
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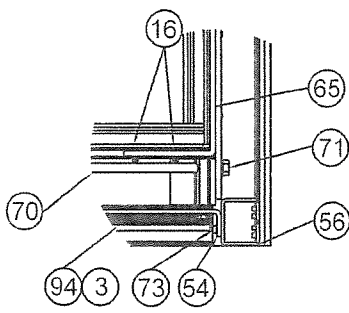
Active Leaf Top Corner-Pivot Side



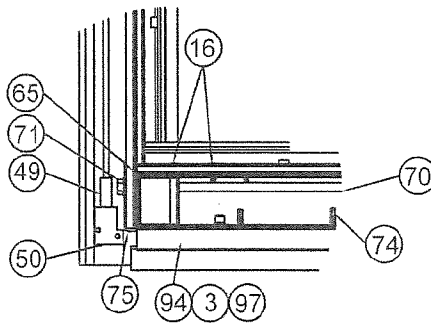
Sidelite Bottom Corner- Lead Side



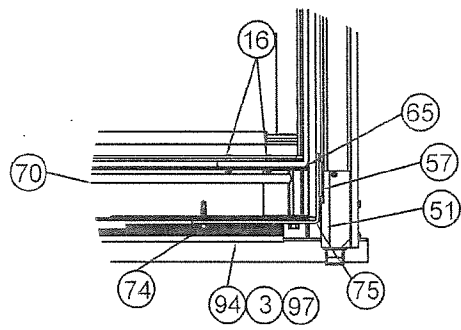
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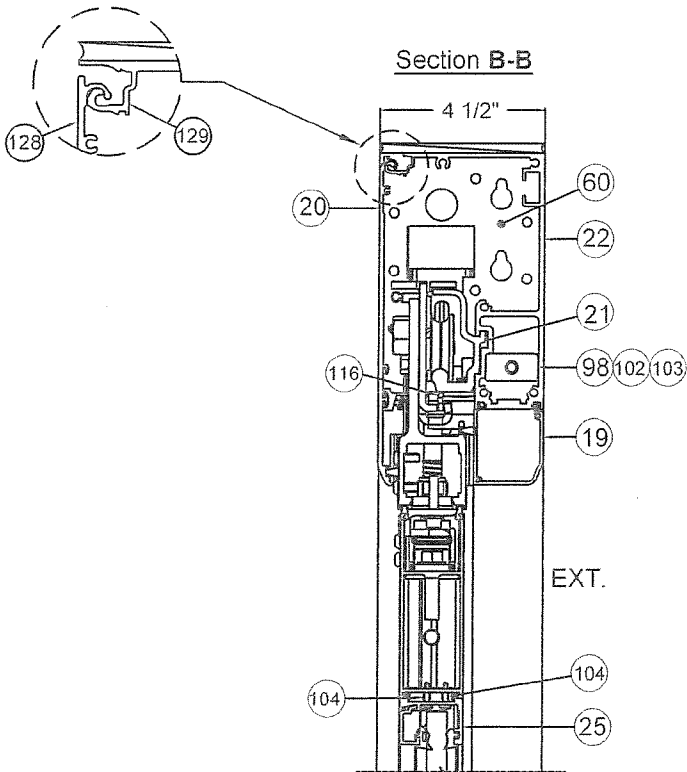
Active Leaf Bottom Corner- Lead Side



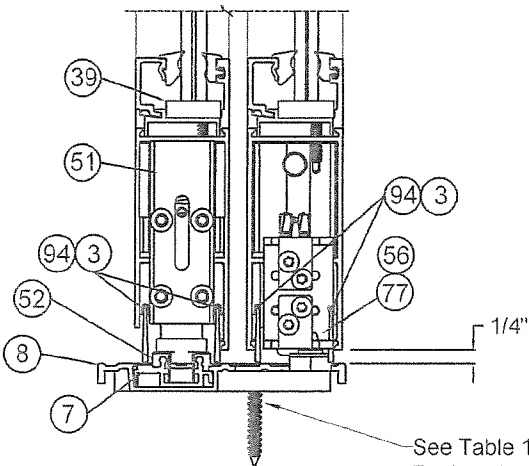
Active Leaf Bottom Corner-Pivot Side



Alternate Cover:

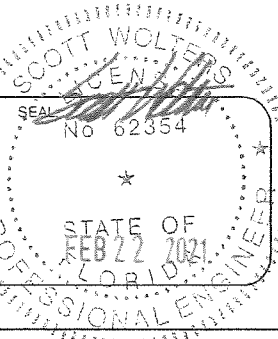


Section G-G



See Table 1 on Sheet 13  
For Installation Anchor Info.

SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING  
(COA# 27194)  
16211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FAX: (561) 225-1982



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NOA-No. 21-0324.08  
Expiration Date 03/19/2025  
By *[Signature]*  
Miami-Dade Product Control

DWG NO.	SL500-R104FBO-E-HVHZ
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	Door Connections and Head Section Views
SHEET NO.	10 OF 21

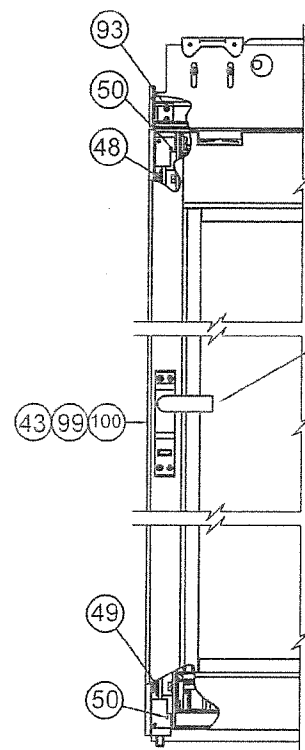
**ASSA ABLOY**

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

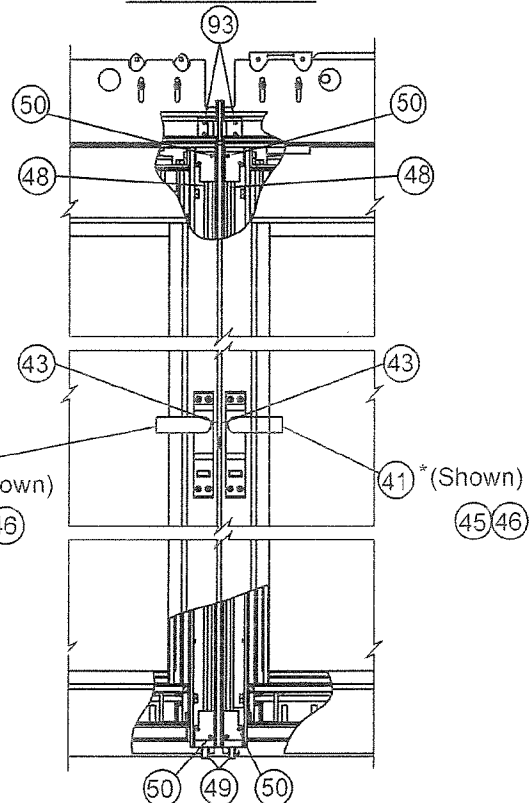
ASSA ABLOY  
SL500 RESILIENCE R104 SLIDING DOOR SYSTEM  
BI-PARTING AND SINGLE SLIDING  
IMPACT LEVEL E (80 FT/S)

Revisions			
Rev	Description	Date	Approved
2	Formatting updates	3/3/20	SJF

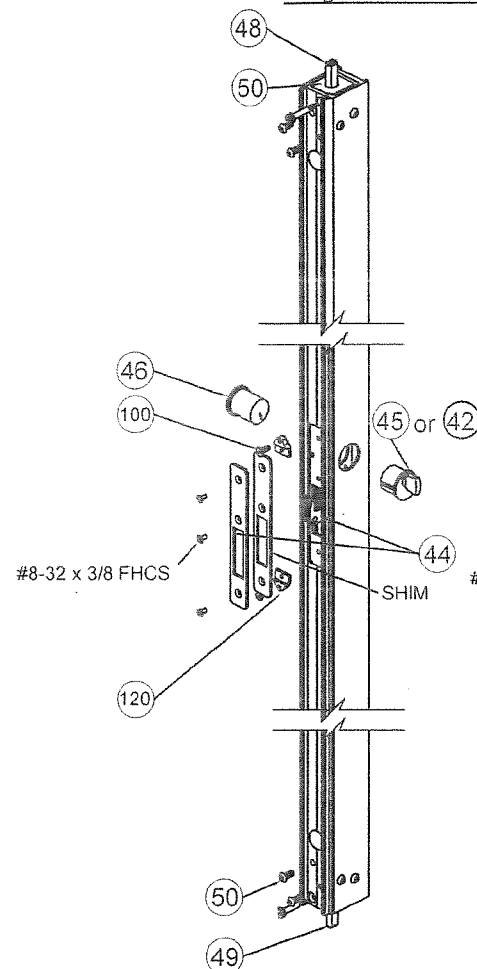
Single Slide 3-Pt Lock



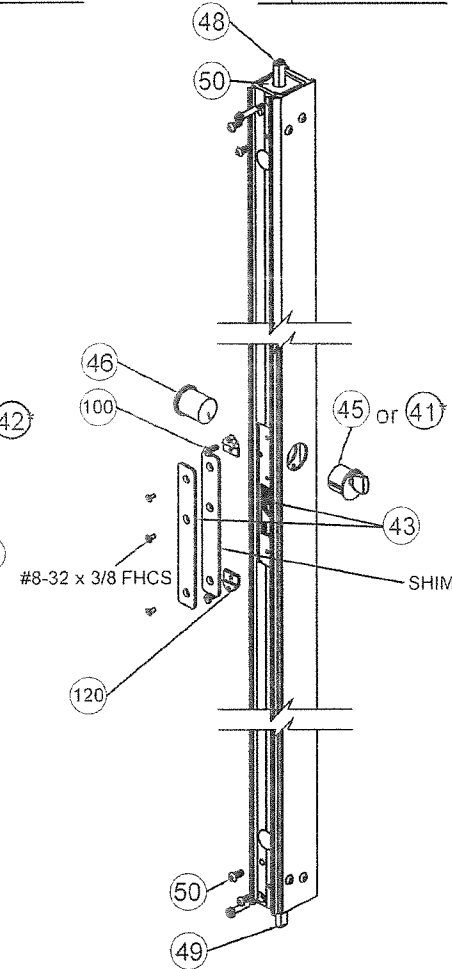
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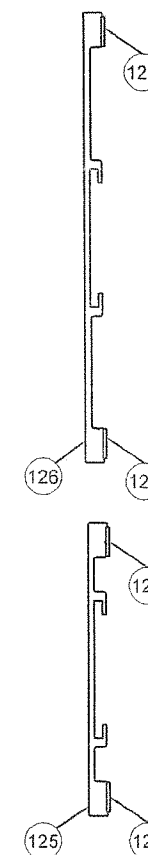
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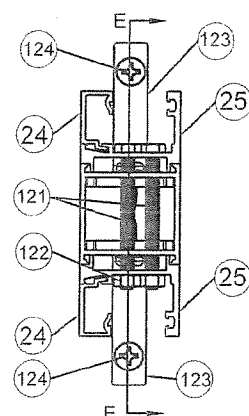
Bi-part 4-Pt Lock



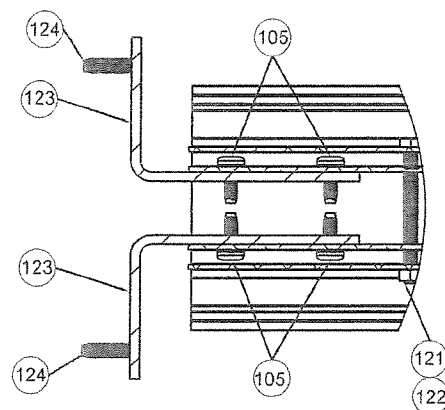
Section E-E  
SURFACE APPLIED  
MUNTIN



Section D-D  
TRUE DIVIDED  
MUNTIN

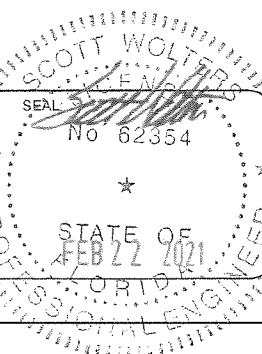


Section E-E  
TRUE DIVIDED  
MUNTIN



SCOTT WOLTERS  
FL PE# 62354

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



**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0324.08

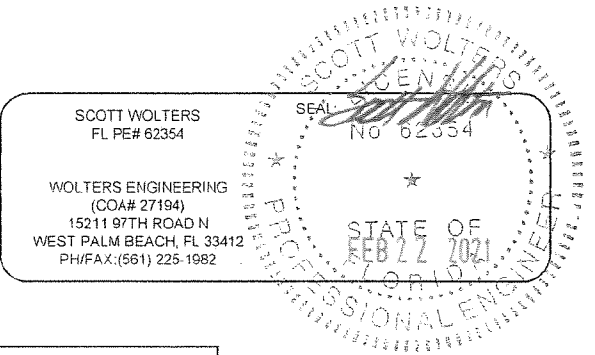
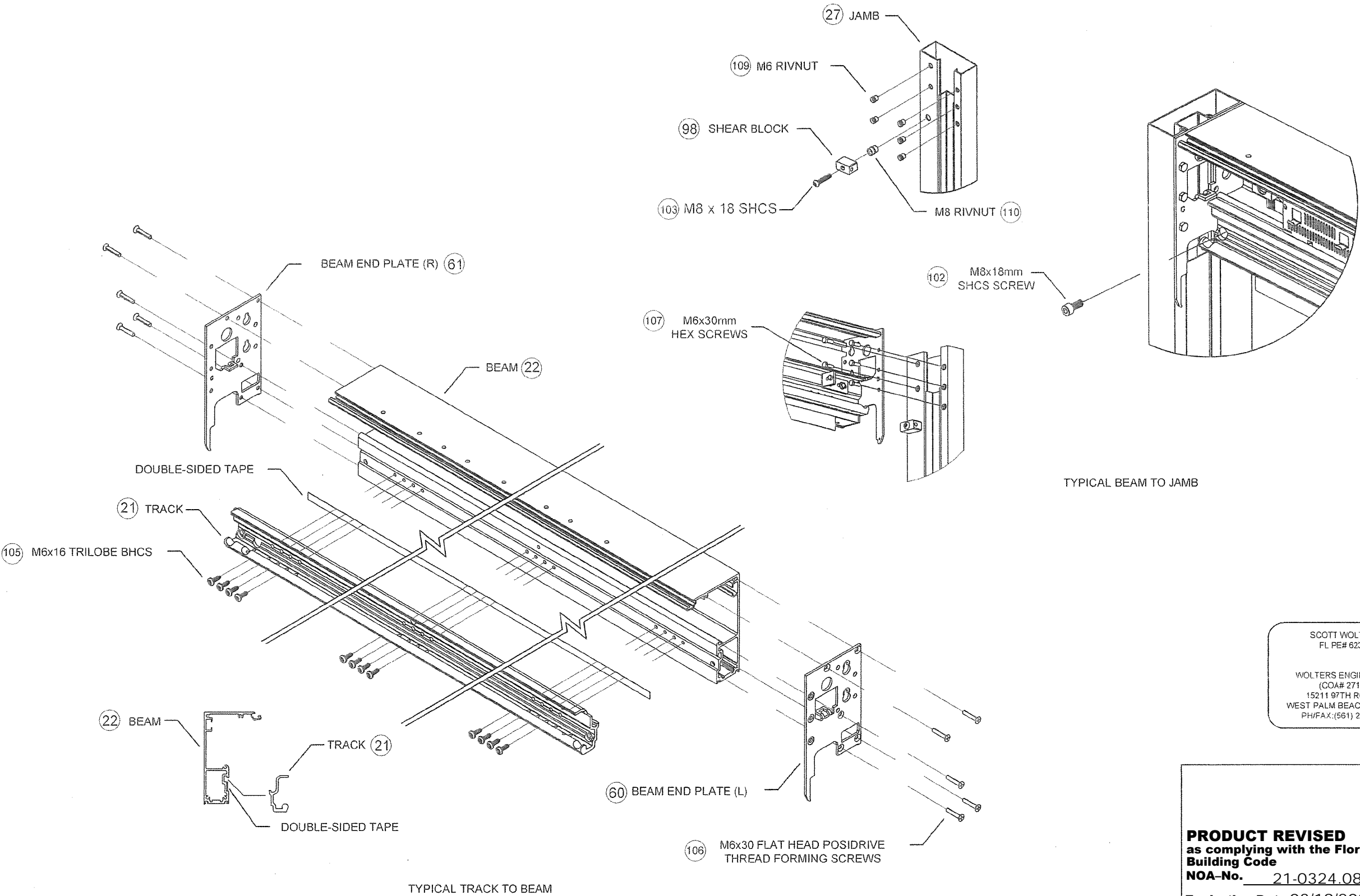
Expiration Date 03/19/2025

By *[Signature]*  
Miami-Dade Product Control

DWG NO.	SL500-R104FBO-E-HVHZ
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	Locking Details, Muntin Details
SHEET NO.	11 OF 21

**ASSA ABLOY**

Revisions			
Rev	Description	Date	Approved
2	Formatting updates	3/3/20	SJF



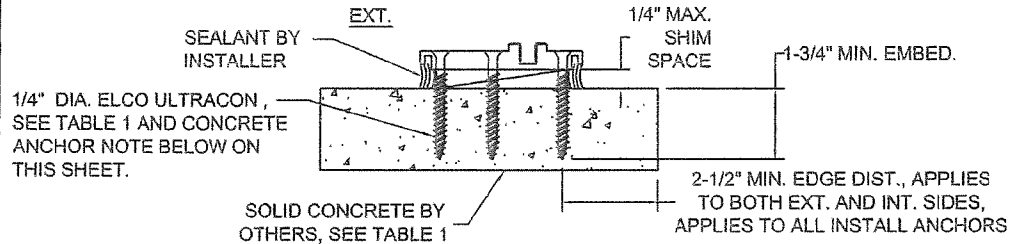
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0324.08  
Expiration Date 03/19/2025  
By *[Signature]*  
Miami-Dade Product Control

DWG NO.	SL500-R104FBO-E-HVHZ
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	Frame Connection Details
SHEET NO.	12 OF 21

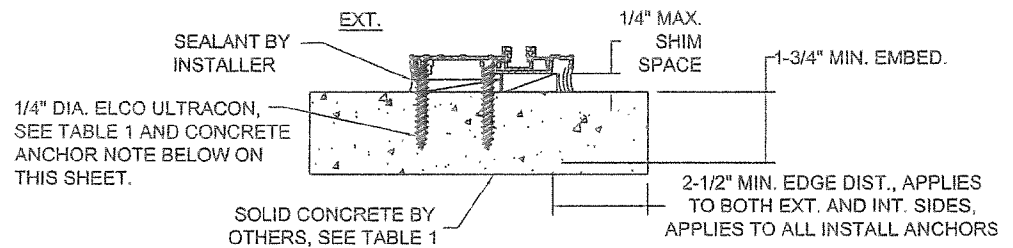


Revisions			
Rev	Description	Date	Approved
2	Formatting updates	3/3/20	SJF

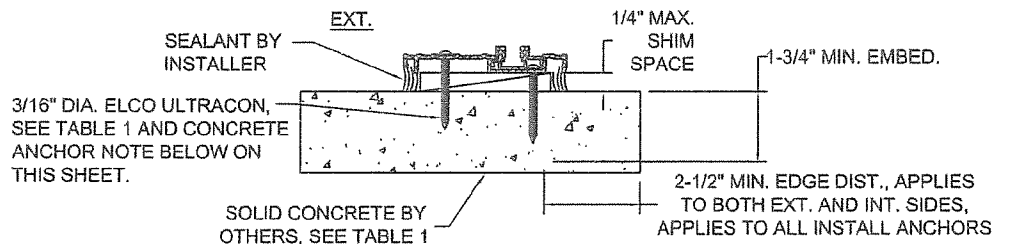
TYPICAL SILL ANCHOR DETAILS IN CONCRETE



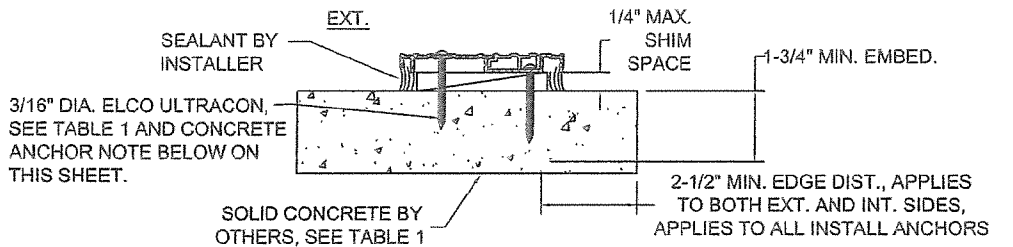
AT PIN GUIDE STRIKES



AT LOCK STRIKE PLATES

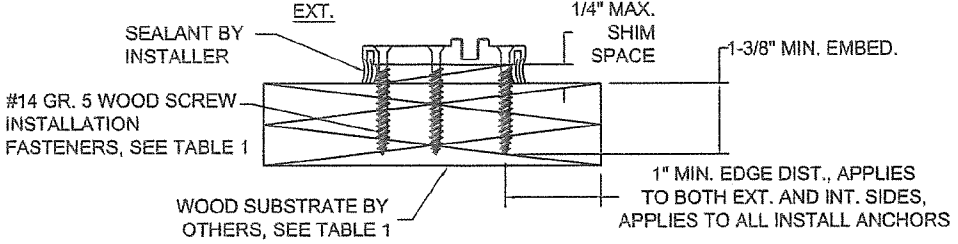


AT SIDELITE THRESHOLD

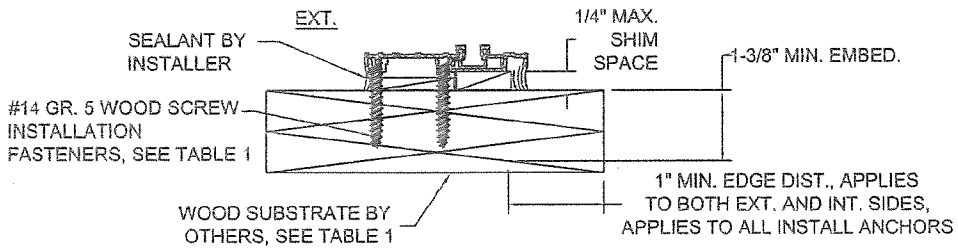


AT OPERABLE THRESHOLD

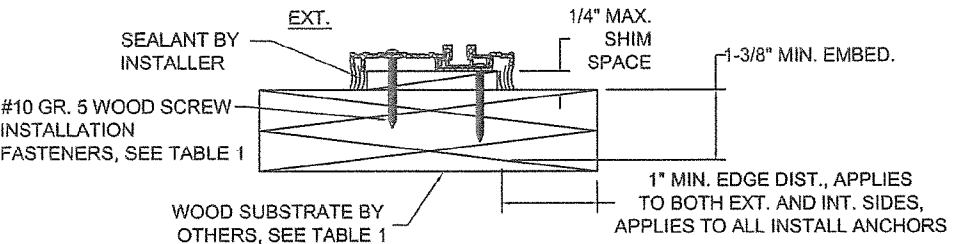
TYPICAL SILL ANCHOR DETAILS IN WOOD



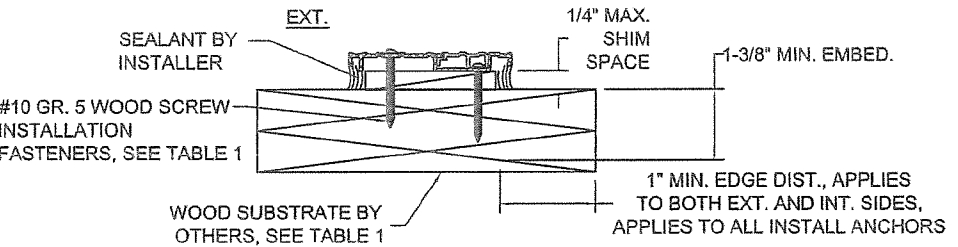
AT PIN GUIDE STRIKES



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.

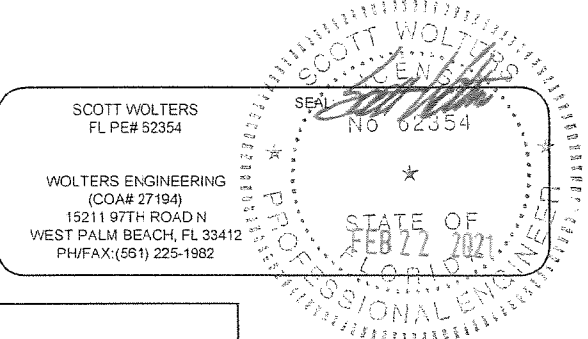
TABLE 1: INSTALLATION ANCHOR REQUIREMENTS

SUBSTRATE TYPE	ANCHOR TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DISTANCE
CONCRETE (2.85 ksi MIN)	1/4" DIA. ELCO ULTRACON (TYPICALLY)	1 3/4"	2 1/2"
	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)	1 3/8"	1"
	#10 GR. 5 WOOD SCREW (AT THRESHOLD ONLY)		
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.



**PRODUCT REVISED**  
as complying with the Florida  
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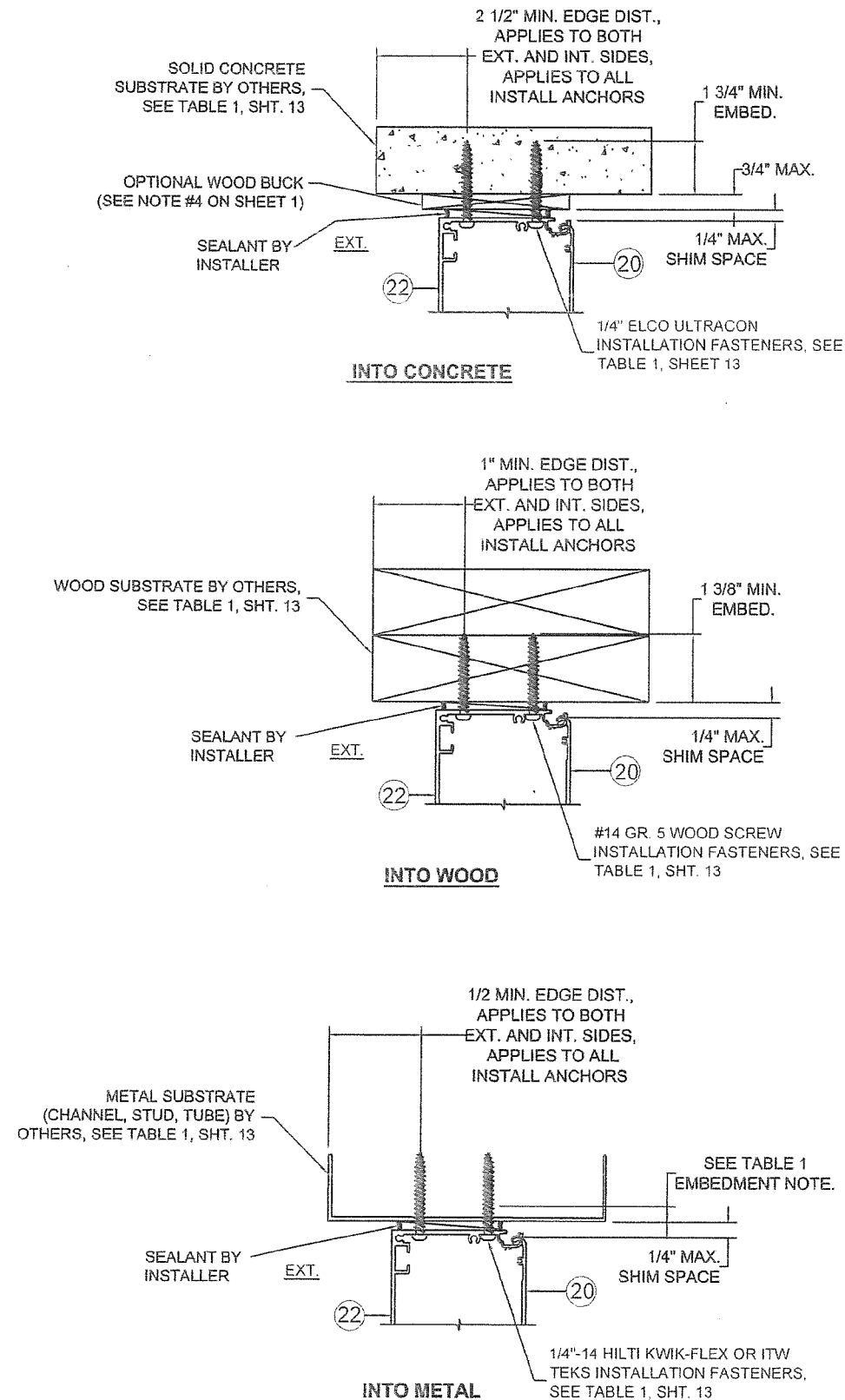
By   
Miami-Dade Product Control

DWG NO.	SL500-R104FBO-E-HVHZ
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	Threshold Anchoring Details, Installation Anchor Table
SHEET NO.	13 OF 21

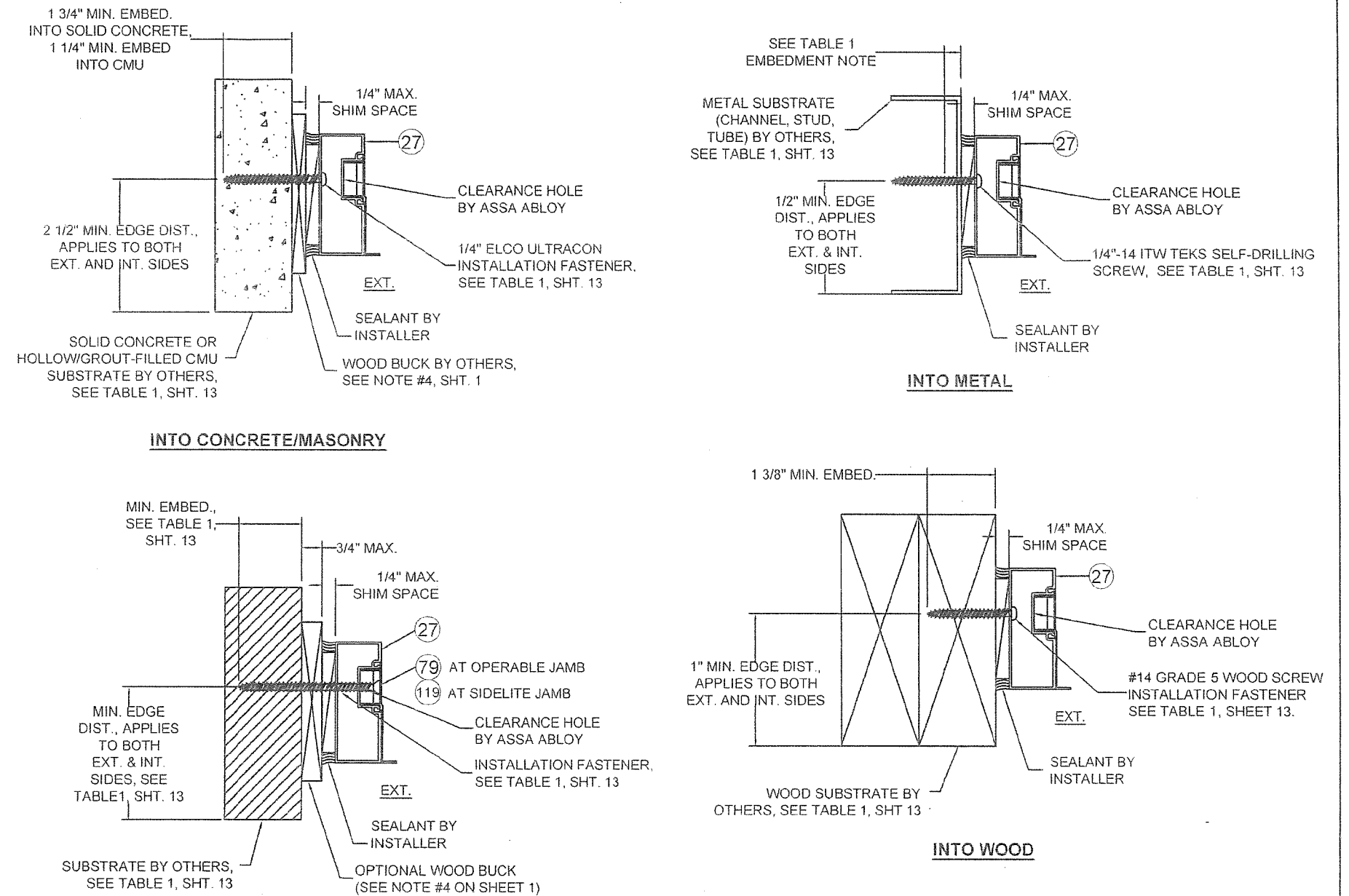


Revisions			
Rev	Description	Date	Approved
2	Formatting updates	3/3/20	SJF

## TYPICAL HEAD ANCHOR DETAILS

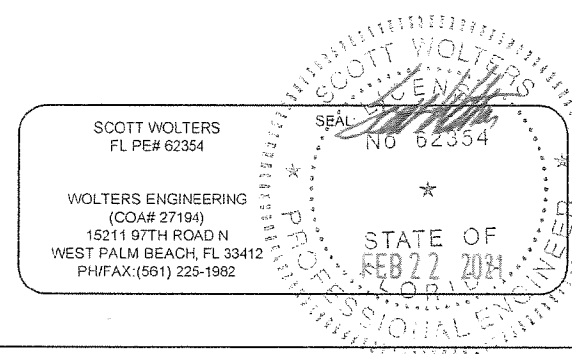


## TYPICAL JAMB ANCHOR DETAILS



## TYPICAL ALT. JAMB INSTALLATION THRU LOCK PLATE/STRIKE

SEE GENERAL ANCHOR NOTES AND TABLE 1, SHEET 1



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Miami-Dade Product Control

DWG NO.	SL500-R104FBO-E-HVHZ
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	Head and Jamb Anchoring Details
SHEET NO.	14 OF 21

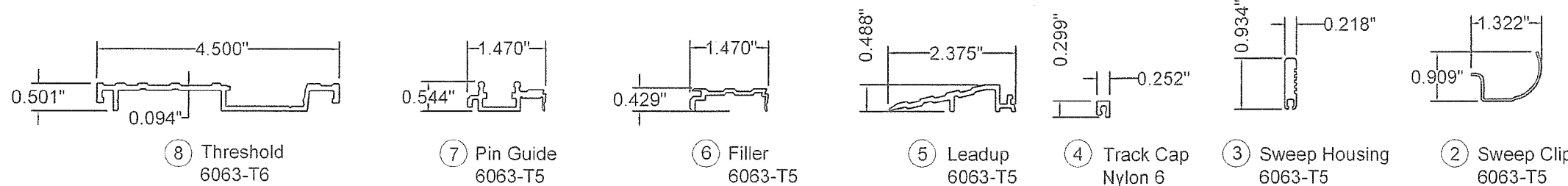
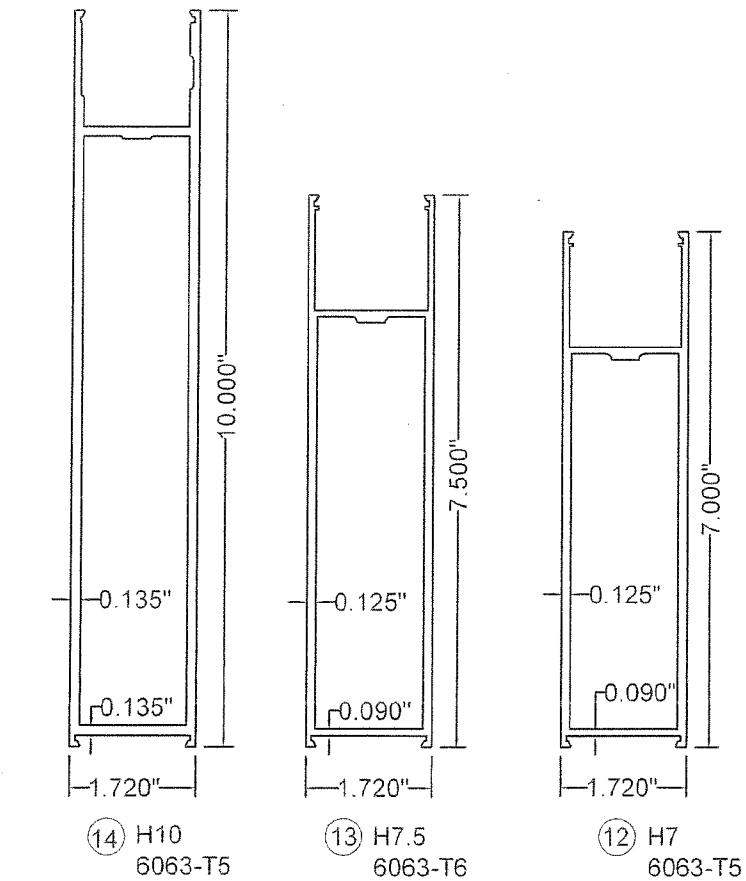
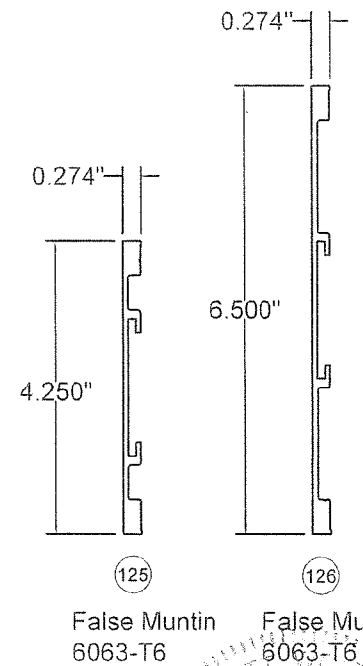
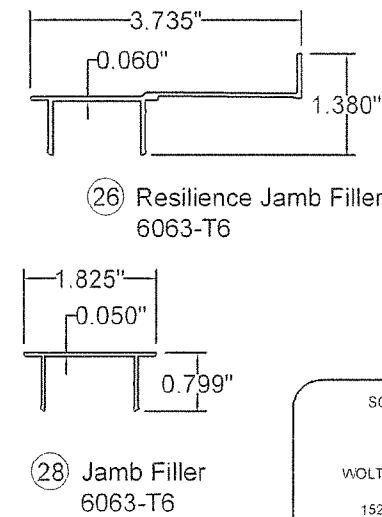
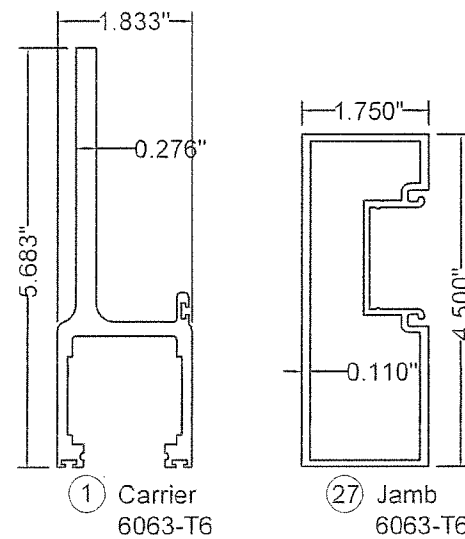
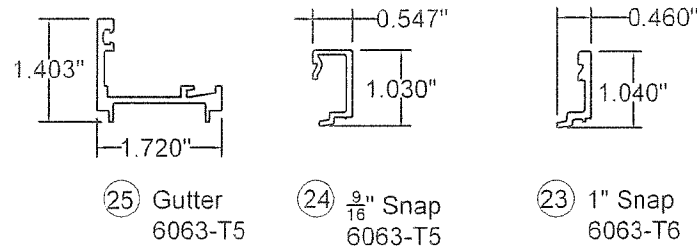
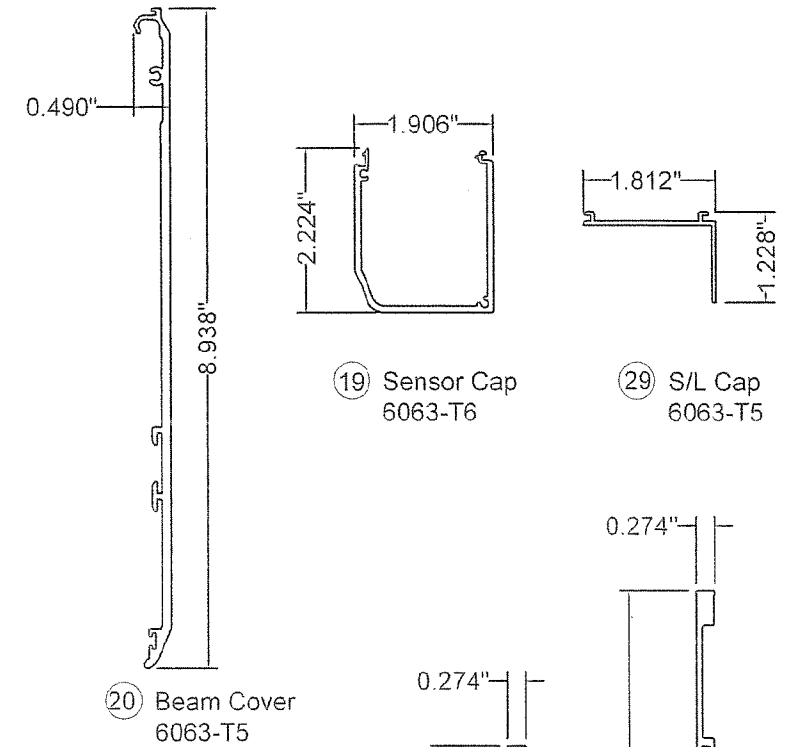
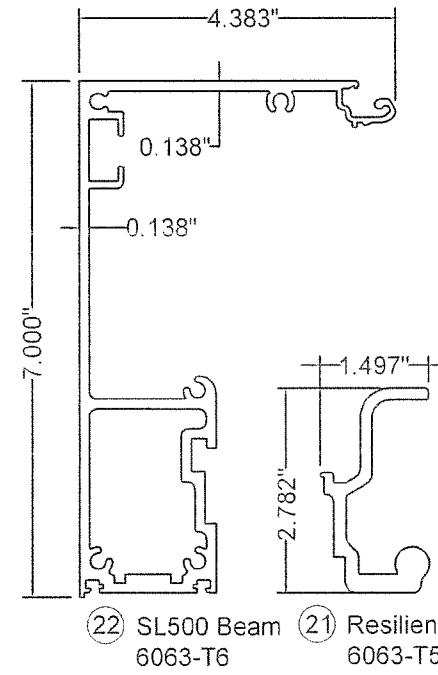
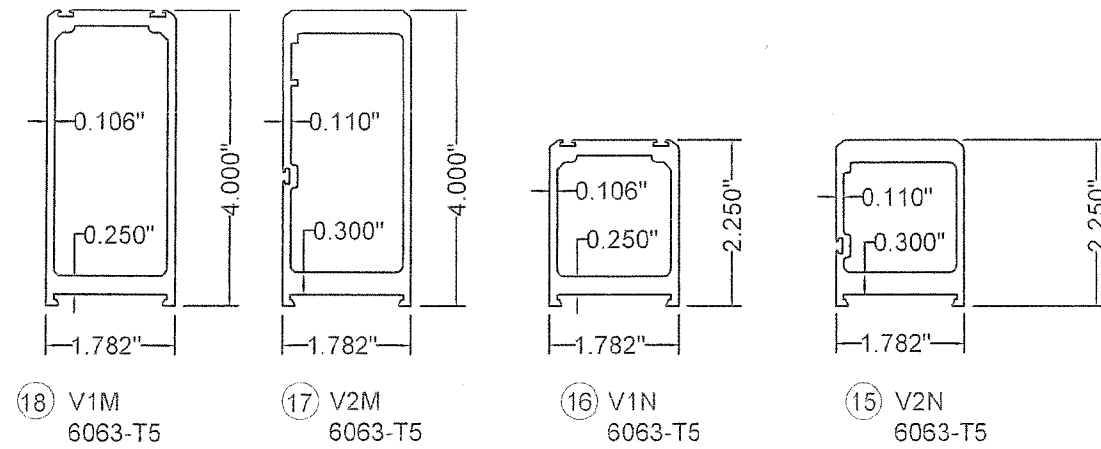
ASSA ABLOY

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  
IMPACT LEVEL E (80 FT/S)

Revisions

Rev	Description	Date	Approved
2	Formatting updates	3/3/20	SJF



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By *[Signature]*  
Miami-Dade Product Control

DWG NO.	SL500-R104FBO-E-HVHZ
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	Profiles
SHEET NO.	15 OF 21

ASSA ABLOY



ASSA ABLOY  
SL500 RESILIENCE R104 SLIDING DOOR SYSTEM  
BI-PARTING AND SINGLE SLIDING  
IMPACT LEVEL E (80 FT/S)

Revisions			
Rev	Description	Date	Approved
2	Formatting updates	3/3/20	SJF

1	Carrier	1015669	46	Cylinder, Key Alike	US06-1404-02	86	#10 x 2" PH Grade 5 Sheetmetal Screw	1703427
2	Sweep Clip	1013780	47	Lock Indicator	50-06-161	87	#14 x 4" RH Grade 5 Sheetmetal Screw	1703494
3	Sweep Housing	US01-0685	48	Lock Pin Assembly, Top	1016991	88	#14 x 3in FH Grade 5 Screw	1703426
4	Track Cap	50-20-135	49	Lock Pin Assembly, Bottom	1016992	89	Nut Plate, Interlock	1019247
5	Leadup	1013364	50	Kit, Lock Pin Guide	1018060	90	Resilience Beam End Cap, Right	1016613
6	Filler	1013366	51	Resilience Pin Guide Assembly	1016658	91	Resilience Beam End Cap, Left	1016614
7	Pin Guide	1013866	52	Pin Guide Strike	1016611	92	PSA Arm Kit, HD	1017036
8	Threshold	1013363	53	SL500 Resil Ball Catch Kit	1017039	93	Resilience Carrier Lock Strike Assembly	1016637
9	H2 Muntin Rail (Optional)	1012947	54	Anti-Twist Bracket	1016628	94	Sweep	US20-1627-02
10	H4 Bottom Rail	1012942	55	Top Pivot Assembly	1012549	95	Ball Catch Kit, Carrier Portion, Resilience	US05-1609-01
11	H5 A/L Top Rail	1012944	56	Bottom Pivot Assembly	1012548	96	Ball Catch Kit, Active Leaf Door Portion, Resilience	1017038
12	H7 Bottom Rail	1012945	57	Square Threaded Rod Nut	1016327	97	Sweep Clip	1013780
13	H7.5 S/L Top Rail	1016075	58	Kit, Resilience Interlock Bar	1018093	98	Resilience Shear Block	1016612
14	H10 Bottom Rail	1012946	59	Kit, Interlock Hook	1018059	99	XG Lock Body Mounting Block	1019595
15	V2N HD Rail	1018841	60	Resilience Beam End Cap, Left	1016614	100	#10-32 x 1/2" Ultra Low Profile Socket Head Screw	1704073
16	V1N HD Rail	1018840	61	Resilience Beam End Cap, Right	1016613	101	XG Muntin 'L' Bracket, Resilience	1019660
17	V2M HD Rail	1018843	62	M6 x 20 Hex Head Screw	93-09-723187	102	M8x40mm BHCS Black	1703691
18	V1M HD Rail	1018842	63	Tall Weatherstrip	US20-0905-01	103	M8 x 18 SHCS	1703495
19	Sensor Cap	1016738	64	Seal	US20-1658-01	104	#10-16 x 5/8" PPH Tek Screw	53-09-003
20	Beam Cover	1016073	65	7.5" Rail Clip	1019594	105	M6x16mm Trilobe BHCS	1703493
21	Resilience Track	1015670	66	5" Anti-Twist Assembly Clip	1013803-3	106	M6 x 30 FH Threadforming Screw	1701704
22	SL500 Beam	1010590	67	4" Anti-Twist Assembly Clip	1013803-2	107	M6x30mm HHCS	93-09-723187
23	1" Snap	1015702	68	7" Anti-Twist Assembly Clip	1013897-2	109	M6 Steel Rivnut	US09-1560-01
24	9/16" Snap	1015701	69	10" Anti-Twist Assembly Clip	1013897-1	110	M8 Steel Rivnut	1703429
25	Gutter	1015700	70	Rod, Threaded, 3/8"	50-09-100			
26	Resilience Jamb Filler	1016844	71	Nut, 3/8-16 Whiz flange zinc	50-09-132			
27	Jamb	US01-0931	72	M6x12mm SHCS BLK Zinc	1703632			
28	Jamb Filler	US01-0933	73	M5x8mm BHCS	1703508			
29	S/L Cap	1008138	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	76	NAPS R Btm Ball Catch Kit	1017936			
37	Wedge Seal (1/4" glass)	1703425	77	Resilience S/L Pivot Base Kit	1019262			
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			
41	Deadbolt Lever, AR4550, RH, CL (Optional)	US05-0771-01	81	1/4"x 1-3/4" HWH Elco Ultracon Conc. Anchor	1703636			
42	Deadbolt Lever, AR4550, LH, CL (Optional)	US05-0771-03	82	3/16"x 1-3/4" HWH Elco Ultracon Conc. Anchor	1703635			
43	2 PT Lock	1703500	83	1/4"x 3-1/4" PFH Elco Ultracon Conc. Anchor	1703634			
44	3 PT Lock	1703501	84	1/4"-14 x 2" HWH #3 Pt SD ITW TEKS Screw	1703633			
45	Thumbturn	50-06-106	85	#14 x 2.5" PH Grade 5 Sheetmetal Screw	1703431			
Pos.	Description	Part.no.	Pos.	Description	Part.no.			

SCOTT WOLTERS  
FL PE# 62354

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


SEAL

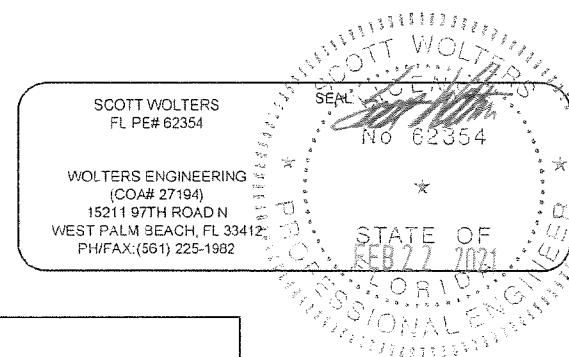
NO 62354

STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0324.08  
Expiration Date 03/19/2025  
By 

DWG NO. SL500-R104FBO-E-H  
DRAWN BY SJF DATE 7/19/20  
SHEET DESCRIPTION Bill of Materials, Sheet 1 of 2  
SHEET 16 of

**PRODUCT REVISED**  
as complying with the Florida  
**Building Code**  
**NOA-No.** 21-0324.08  
**Expiration Date** 03/19/2025  
**By**   
**Miami-Dade Product Control**



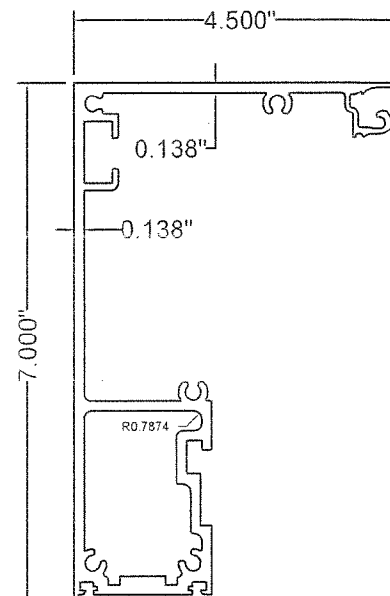
DWG NO.		SL500-R104FBO-E-HVH	
DRAWN BY SJF		DATE 7/19/2019	
SHEET DESCRIPTION Bill of Materials, Sheet 1 of 2		SHEET NO. 16 of 21	

# ASSA ABLOY

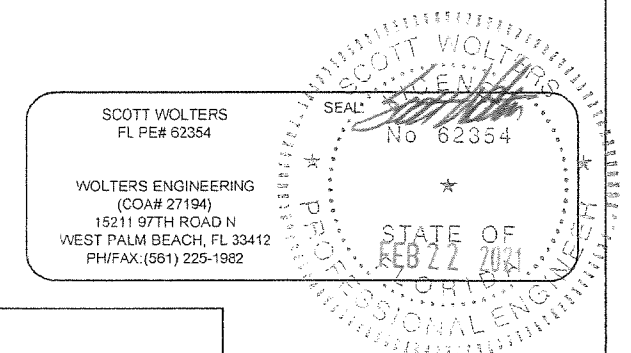
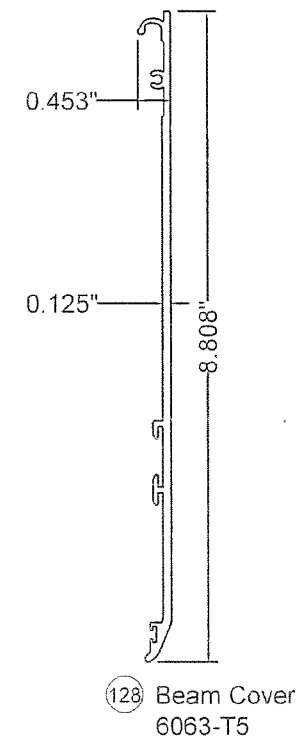


ASSA ABLOY  
SL500 RESILIENCE R104 SLIDING DOOR SYSTEM  
BI-PARTING AND SINGLE SLIDING  
IMPACT LEVEL E (80 FT/S)

Revisions			
Rev	Description	Date	Approved
2	Formatting updates	3/3/20	SJF

[illegible]

129 SL500 Beam  
6063-T6



**PRODUCT REVISED**  
as complying with the Florida  
Building Code

**NOA-No.** 21-0324.08

**Expiration Date** 03/19/2025

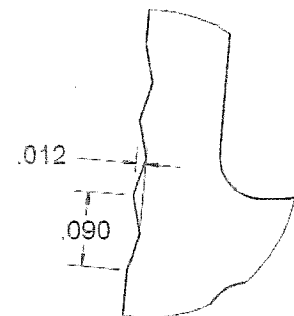
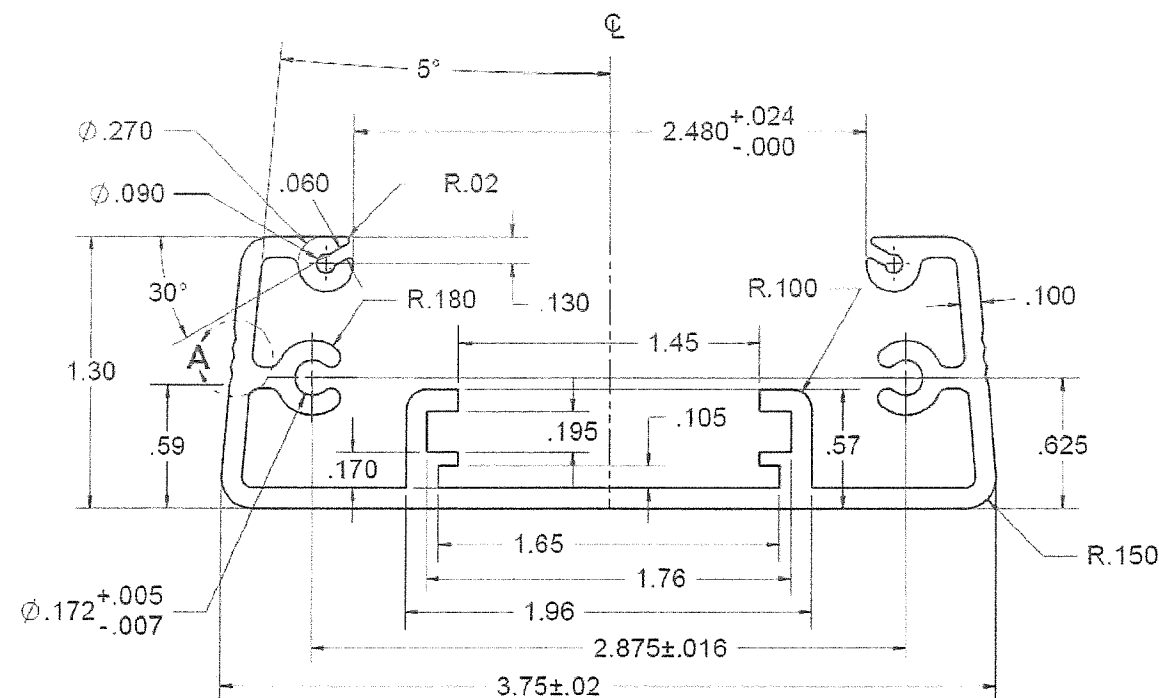
By                       
Miami-Dade Product Control

DWG NO.		SL500-R104FBO-E-HVHZ	
DRAWN BY SJF		DATE 7/19/2019	
SHEET DESCRIPTION Bill of Materials, Sheet 2 of 2		SHEET NO. 17 of 21	

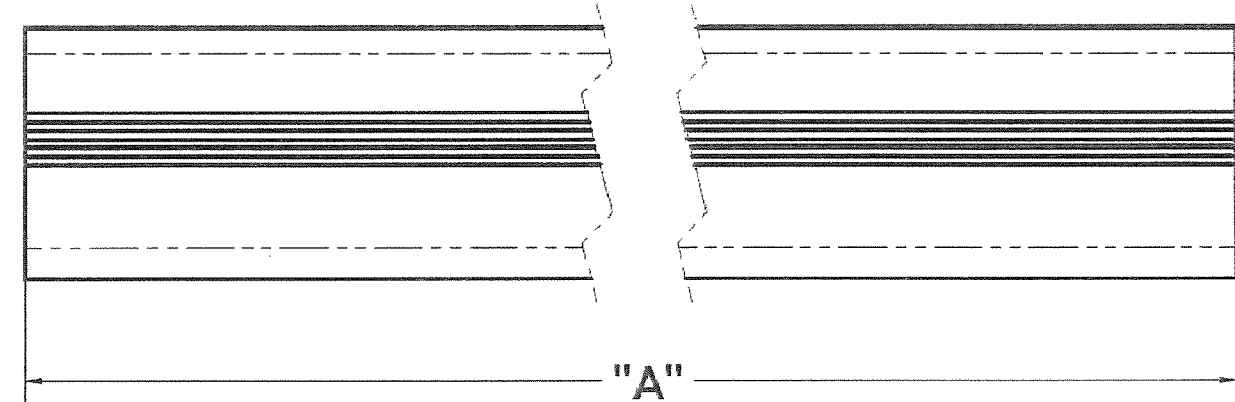
# ASSA ABLOY

**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



DETAIL A  
SCALE 8 : 1



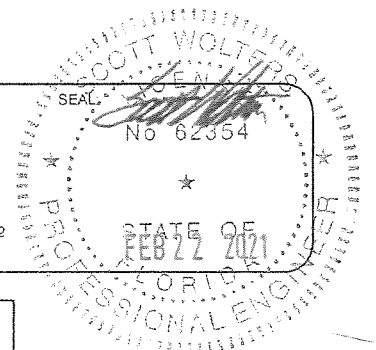
1. ALL DIMENSIONS ARE FINISHED DIMENSIONS.
2. BREAK ALL SHARP EDGES.
3. MATERIAL: 6063-T6 ALUMINUM. (13'-8" LONG).
4. HEAT TREAT: NONE.
5. FINISH: 60 RMS OR BETTER.
6. POST BAKE: NONE.

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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**NOA-No.** 21-0324.08

**Expiration Date** 03/19/2025

By                       
Miami-Dade Product Control

DWG NO. SL500-R104FBO-E-HVHZ

DRAWN BY	SJF	DATE	7/19/2019
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SHEET DESCRIPTION	SHEET NO.
Panic Exit Device Interior Profile	18 of 21

# ASSA ABLOY

**ASSA ABLOY**

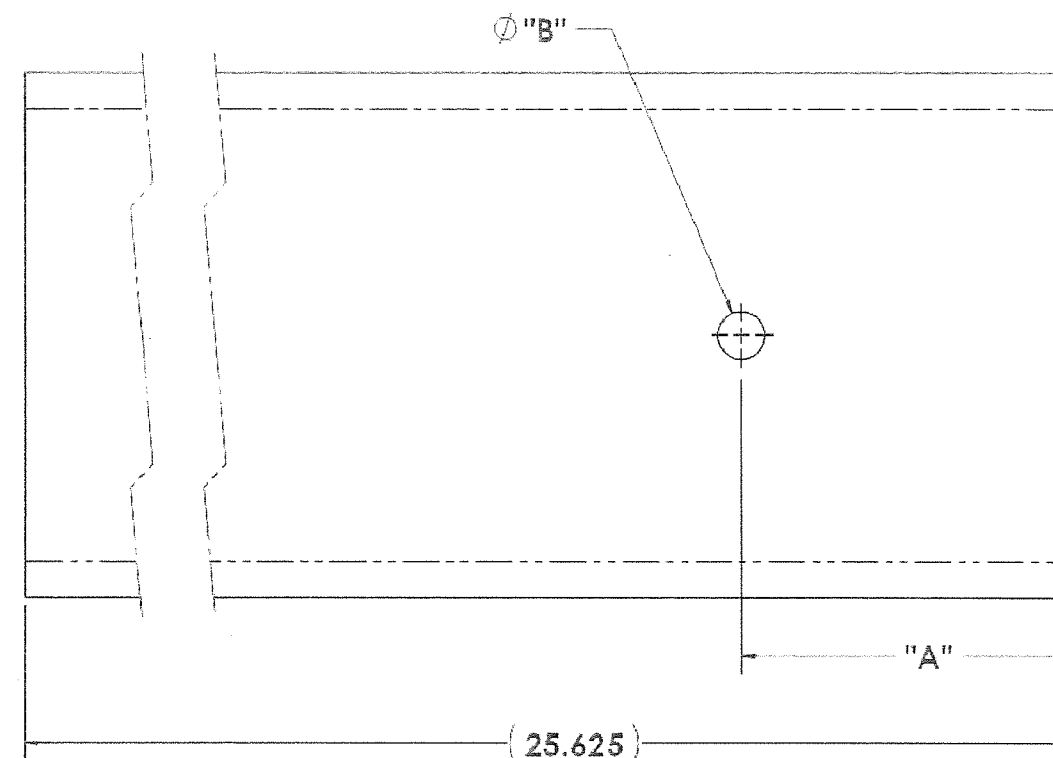
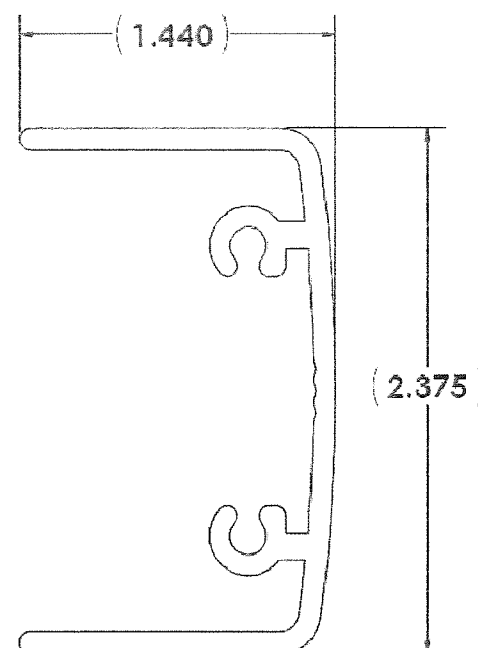
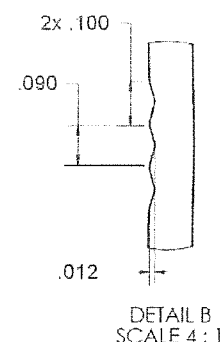
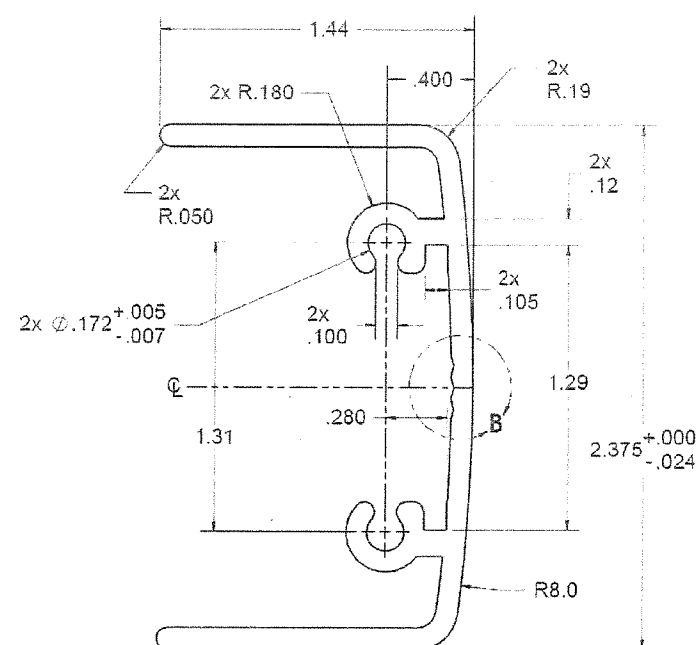
ASSA ABLOY ENTRANCE SYSTEMS  
1900 AIRPORT ROAD  
MONROE, NC 28110  
PHONE: 1-866-237-2687

ASSA ABLOY  
SL500 RESILIENCE R104 SLIDING DOOR SYSTEM  
BI-PARTING AND SINGLE SLIDING  
IMPACT LEVEL E (80 FT/S)

Revisions			
Rev	Description	Date	Approved
2	Formatting updates	3/3/20	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



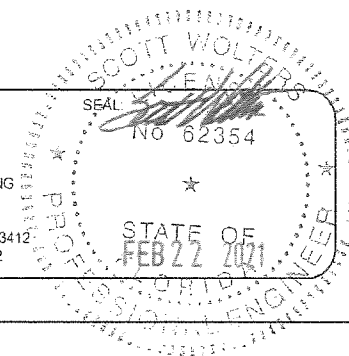
6. POST BAKE: NONE.
5. FINISH: 60 RMS OR BETTER.
4. HEAT TREAT: NONE.
3. MATERIAL: 6063-T6 ALUMINUM. (13'-8" LONG).
2. BREAK ALL SHARP EDGES.
1. ALL DIMENSIONS ARE FINISHED DIMENSIONS.

NOTES: UNLESS OTHERWISE SPECIFIED.

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

SCOTT WOLTERS  
FL PE# 62354

WOLTERS ENGINEERING  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
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NOA-No. 21-0324.08  
Expiration Date 03/19/2025  
By *[Signature]*  
Miami-Dade Product Control

DWG NO.	SL500-R104FBO-E-HVHZ
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	Panic Exit Device Exterior Profile
SHEET NO.	19 of 21

**ASSA ABLOY**



**ASSA ABLOY**

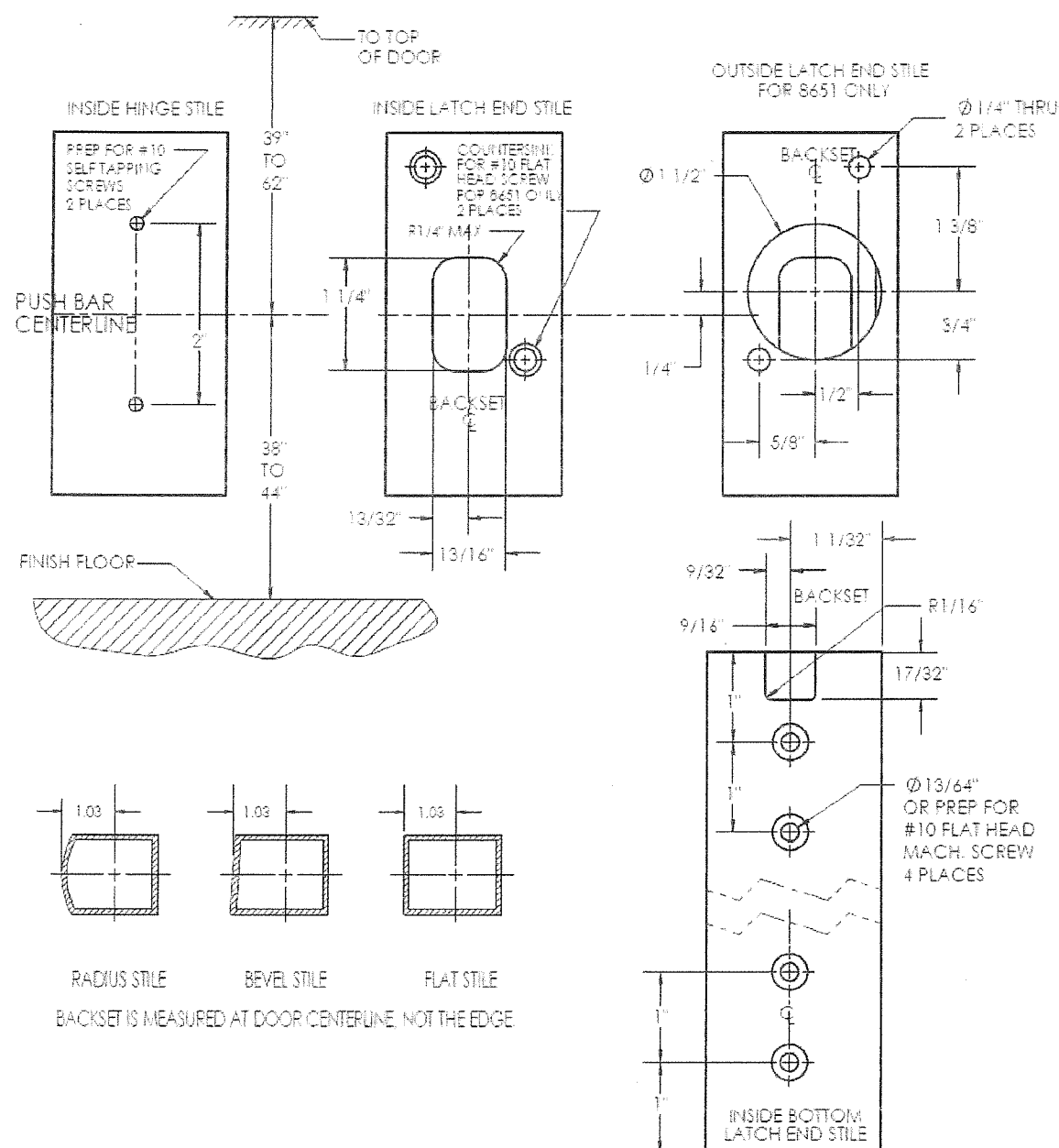
ASSA ABLOY ENTRANCE SYSTEMS  
1900 AIRPORT ROAD  
MONROE, NC 28110  
PHONE: 1-866-237-2687

ASSA ABLOY  
SL500 RESILIENCE R104 SLIDING DOOR SYSTEM  
BI-PARTING AND SINGLE SLIDING  
IMPACT LEVEL E (80 FT/S)

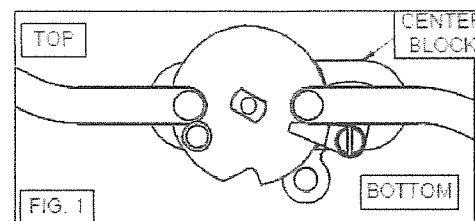
Revisions

Rev	Description	Date	Approved
2	Formatting updates	3/3/20	SJF

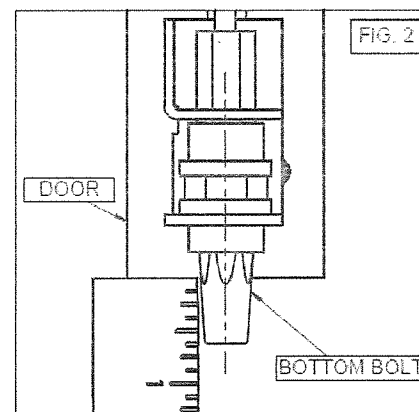
1. Prepare doors as shown. This product must be installed according to all applicable building and life safety codes.



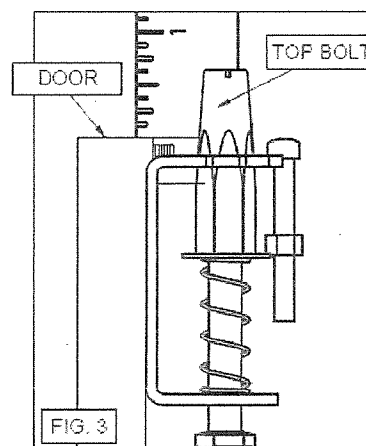
2. Pre-adjust rod assembly.  
a. Lay rod assembly on the face of the door with center block protruding into installation hole.  
b. Fully extend rods as shown.



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

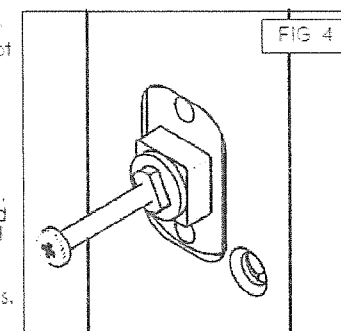


d. Set the top bolt for 5/8\" projection from top of door.



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.



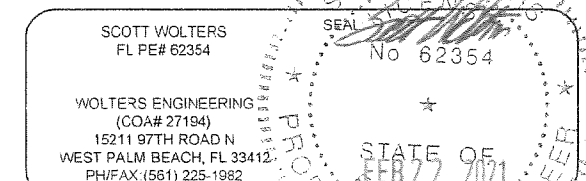
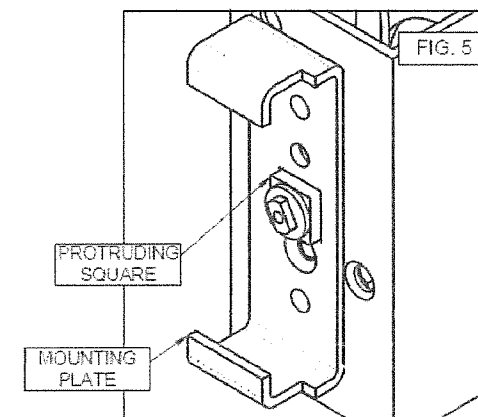
4. Cutting the bar for custom door widths.

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 carriage 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.



**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**

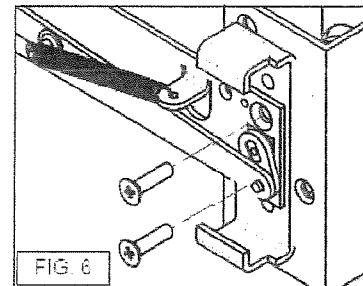
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0324.08  
Expiration Date 03/19/2025  
By *[Signature]*  
Miami-Dade Product Control

DWG NO.	SL500-R104FBO-E-HVHZ
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	Panic Exit Device Installation Details, Sheet 1 of 2
SHEET NO.	20 of 21

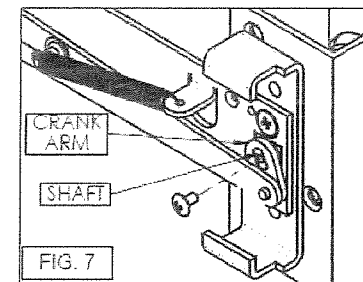
**ASSA ABLOY**

Revisions			
Rev	Description	Date	Approved
2	Formatting updates	3/3/20	SJF

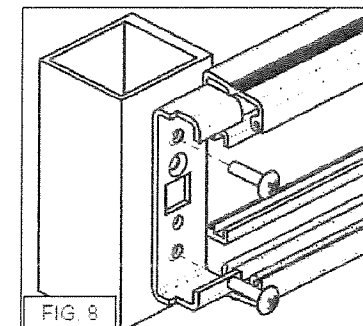
- f. Place scissor cartridge on center block and secure with two 10-32 x 3/4" flat head machine screws.



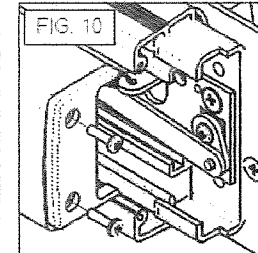
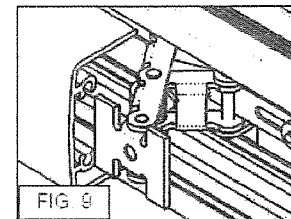
7. Secure crank arm  
a. Remove helper screw.  
b. Align crank arm with shaft. You may have to operate the push bar scissors to align tab with slot.  
c. Secure with one 6-32 x 1/4" truss head machine screw.



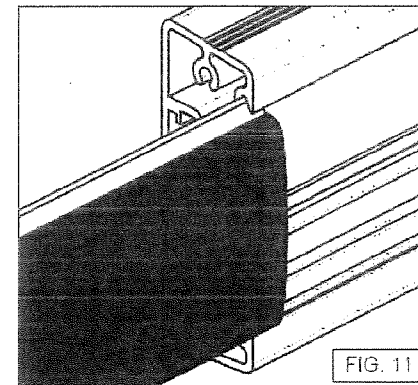
8. Insert mounting plate from the hinge side onto the back bar and secure with two 10-32 x 3/4" self-tapping screws on the triangle side stile.



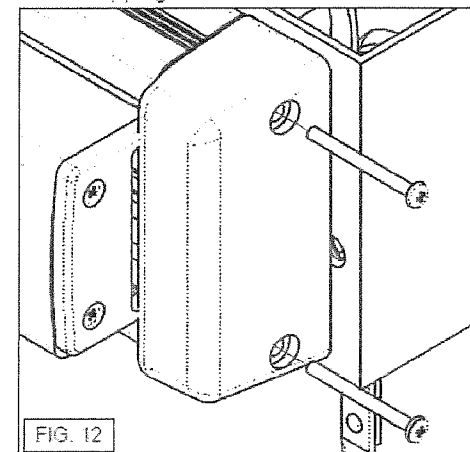
9. Insert push bar and secure end caps with four 10-32 x 1/2" self-tapping screws.



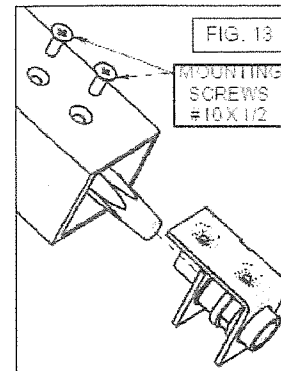
10. Insert cover strip into back bar. Push in until flush with back bar extrusion.



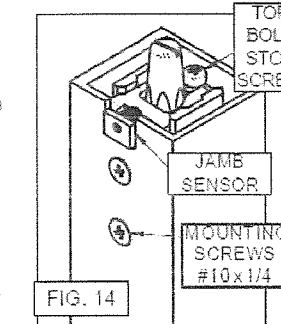
11. Install base caps and secure with four 10-32 x 2" self-tapping screws.



12. Insert bottom bolt (Fig. 13) guide with the plastic guide towards the bottom. And secure with two 10-32 x 1/2" 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.

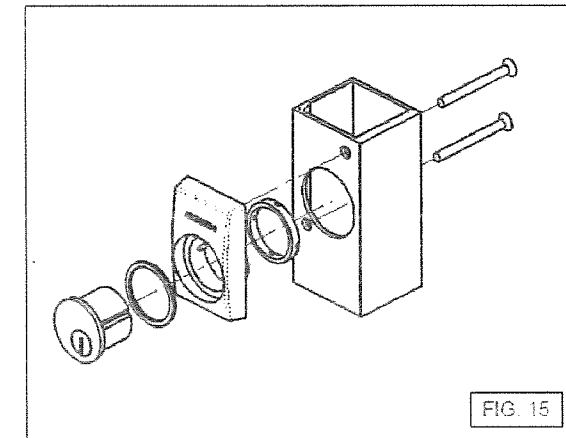


14. Check operation:  
a. Fully depress the push bar and release.  
b. Top bolt will retract & latch.  
c. If it doesn't hold - adjust top bolt stop screw out until top bolt is retained.  
d. When the push bar is completely pushed in and then released, you should see about 1/16" movement of the top bolt.

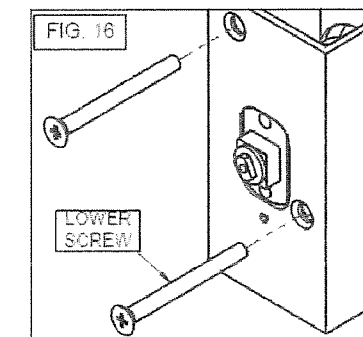
15. Check operation: push top jam sensor.  
a. Top bolt will project.  
b. If it doesn't - check rods for binding.

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.

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

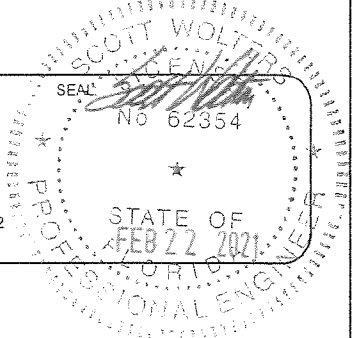


- b. the cylinder cam from bottoming out on the center block assembly.  
Secure the cylinder escutcheon assembly to the stile with the 2" long flat head screws provided. Note: the lower screw nests into a boss in the center block. (Fig. 16)  
c. Once the installation is complete, check operation by turning 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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**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**

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-0324.08  
Expiration Date 03/19/2025  
By *[Signature]*  
Miami-Dade Product Control

DWG NO.	SL500-R104FBO-E-HVHZ
DRAWN BY	SJF
DATE	7/19/2019
SHEET DESCRIPTION	Panic Exit Device Installation
Details, Sheet 2 of 2	SHEET NO. 21 of 21

**ASSA ABLOY**