



RECORD U.S.A. INC.  
4324 PHIL HARGETT COURT  
P.O. BOX 3099  
MONROE, NC 28111  
PHONE: 1-866-237-2687

RECORD  
WINDCORD 5400/5500 SLIDING DOOR SYSTEM  
BI-PARTING AND SINGLE SLIDING  
FULL BREAKOUT (HVHZ)

| Revisions |                 |      |          |
|-----------|-----------------|------|----------|
| Rev       | Description     | Date | Approved |
| 1         | Initial Release |      | CBG      |

GENERAL NOTES:

- 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 MISSILE IMPACT RESISTANT. GLASS TYPE 4 IS NON-IMPACT AND REQUIRES AN IMPACT RESISTANT SHUTTER SYSTEM IN WINDBORNE DEBRIS REGIONS.
- MAX. DESIGN PRESSURES ARE LISTED ON SHEET 4.
- 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.
- 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.
- 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.
- ALL FASTENERS PENETRATING INTO PRESSURE TREATED WOOD SHALL BE CAPABLE OF PREVENTING CORROSION DUE TO REACTION WITH PRESSURE TREATMENT CHEMICALS.
- 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.
- DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT GALVANIC REACTIONS IN ACCORDANCE WITH FBC CHAPTERS 20 AND 23.

SYSTEM NOTES:

- ALL ALUMINUM PARTS SHALL BE 6063-T5 ALUMINUM ALLOY AND TEMPER, UNLESS OTHERWISE NOTED.
- FOR GLAZING DETAILS, SEE SHEET 5.
- 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.
- THIS SYSTEM HAS NOT BEEN TESTED PER ANSI Z97.1.

CORNER CONSTRUCTION:

- FRAME CORNERS ARE SQUARE CUT AND MECHANICALLY FASTENED AT THE HEAD WITH M6x30 SCREWS USING A BEAM END PLATE (SEE SHEET 12),
- 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

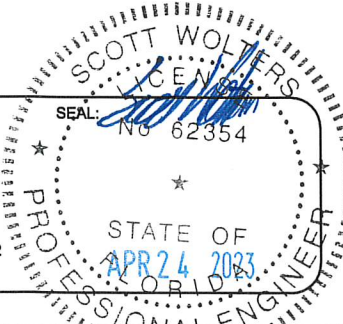
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Description

General Notes  
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  
Muntin Details, Locking Details  
Frame Connection Details  
Threshold Anchoring Details, Installation Anchor Table  
Head and Jamb Anchoring Details  
Profiles  
Bill of Materials  
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                                        |
|-----------------------|------------------------------------------------------|
| SEE TABLES ON SHEET 4 | SEE TABLES ON SHEET 4 AND GLAZING DETAILS ON SHEET 5 |

SCOTT WOLTERS  
FL PE# 62354  
  
WOLTERS ENGINEERING  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FAX:(561) 225-1982



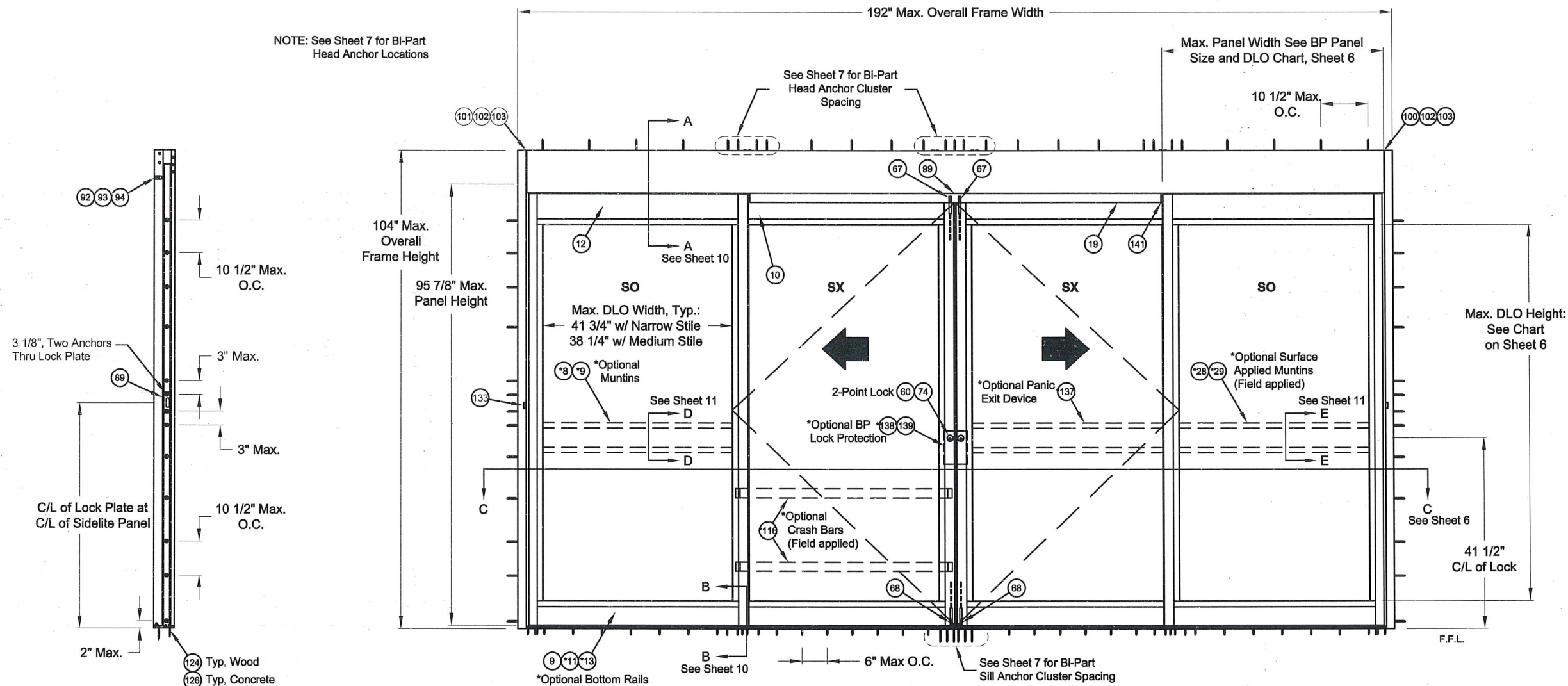
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| DWG NO.           | 1023672-HZ           |
| DRAWN BY          | DBN                  |
| DATE              | 04/24/23             |
| SHEET DESCRIPTION | SHEET NO.<br>1 OF 20 |



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| 1         | Initial Release |      | CBG      |

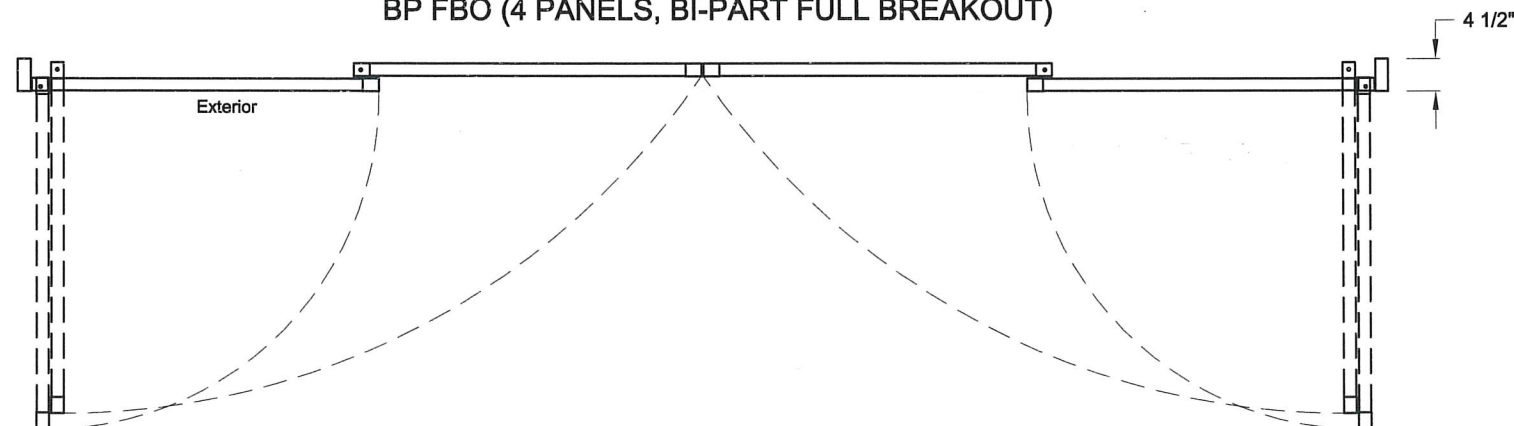


SIDELITE JAMB  
(Typ. both Jambs)

BP FBO (4 PANELS, BI-PART FULL BREAKOUT)

| Daylight Opening (DLO) Width Formulas |                       |
|---------------------------------------|-----------------------|
| Narrow Stile                          | Panel Width - 7"      |
| Medium Stile                          | Panel Width - 10 1/2" |

| Daylight Opening (DLO) Height Formulas |               |
|----------------------------------------|---------------|
| 4" Bottom Rail                         | OFH - 21 5/8" |
| 7" Bottom Rail                         | OFH - 24 5/8" |
| 10" Bottom Rail                        | OFH - 27 5/8" |



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SEAL: No 62354

STATE OF FLORIDA  
APR 24 2023  
PROFESSIONAL ENGINEER

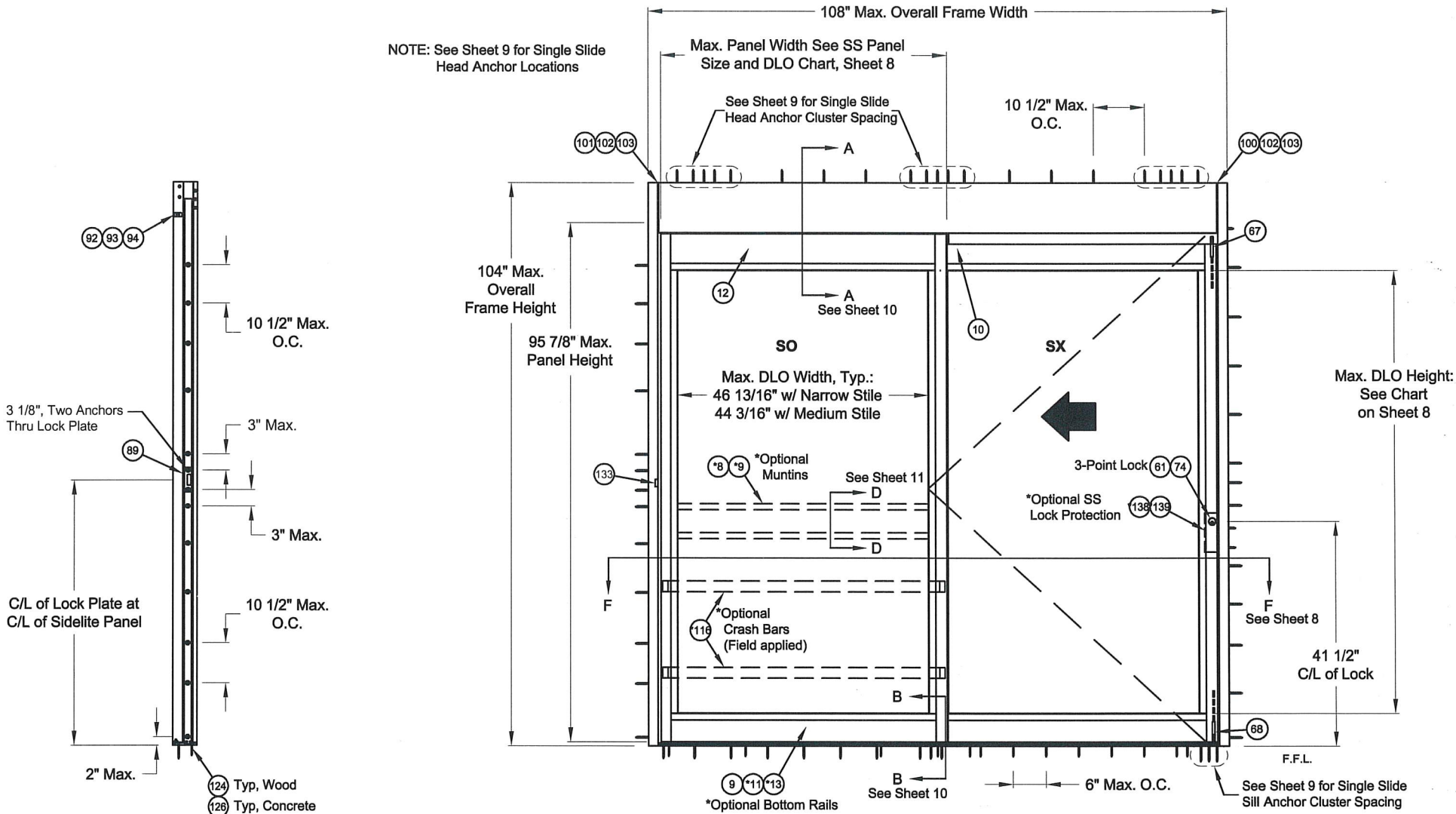
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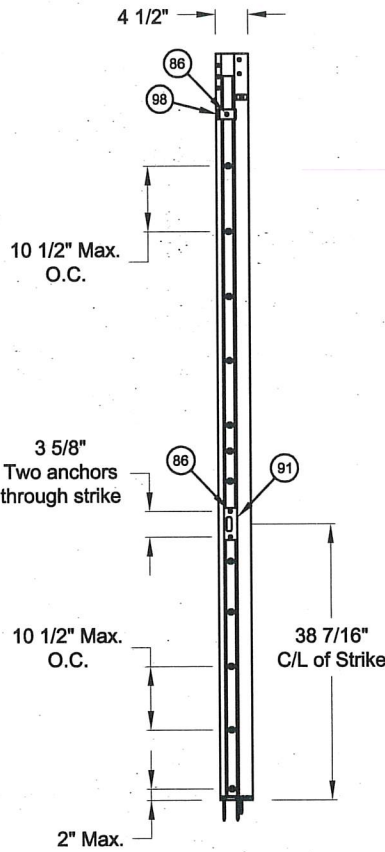
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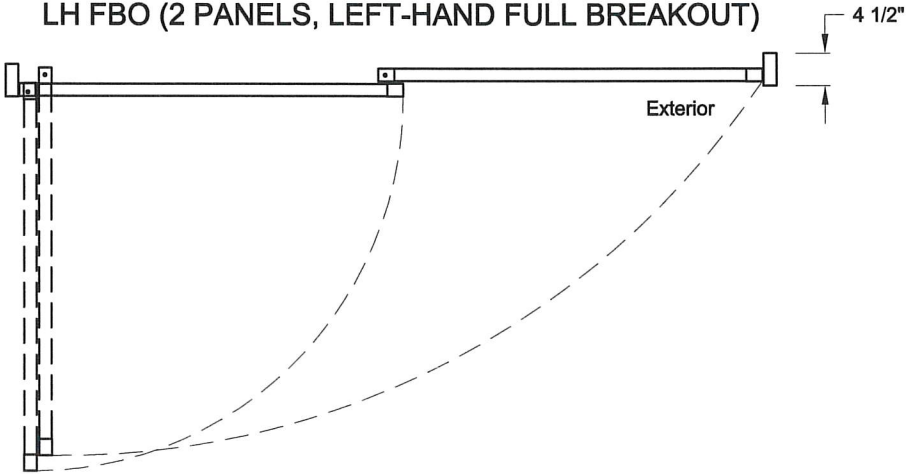


SIDELITE JAMB



ACTIVE JAMB

LH FBO (2 PANELS, LEFT-HAND FULL BREAKOUT)



| Daylight Opening (DLO) Width Formulas |                       |
|---------------------------------------|-----------------------|
| Narrow Stile                          | Panel Width - 7"      |
| Medium Stile                          | Panel Width - 10 1/2" |

| Daylight Opening (DLO) Height Formulas |               |
|----------------------------------------|---------------|
| 4" Bottom Rail                         | OFH - 21 5/8" |
| 7" Bottom Rail                         | OFH - 24 5/8" |
| 10" Bottom Rail                        | OFH - 27 5/8" |

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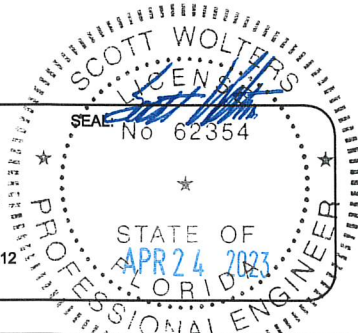
| SINGLE SLIDE -MAXIMUM DESIGN PRESSURE |                 |                               |                         |                            |
|---------------------------------------|-----------------|-------------------------------|-------------------------|----------------------------|
| GLASS TYPE                            | IMPACT RATING   | LOCKING HARDWARE              | MAX. FRAME SIZE (W x H) | MAX. DESIGN PRESSURE (psf) |
| GLASS TYPES 1 & 2                     | LMI - MISSILE D | 3 PT. LOCK or ADAMS-RITE 8600 | 108" x 104"             | 75                         |
| GLASS TYPE 3                          | LMI - MISSILE E | 3 PT. LOCK or ADAMS-RITE 8600 | 108" x 104"             | 75                         |
| GLASS TYPE 4                          | NON-IMPACT**    | 3 PT. LOCK or ADAMS-RITE 8600 | 108" x 104"             | 75                         |

\*\*SHUTTERS ARE REQUIRED FOR WINDBORNE DEBRIS REGIONS

| BI-PARTING -MAXIMUM DESIGN PRESSURE |                 |                               |                         |                            |
|-------------------------------------|-----------------|-------------------------------|-------------------------|----------------------------|
| GLASS TYPE                          | IMPACT RATING   | LOCKING HARDWARE              | MAX. FRAME SIZE (W x H) | MAX. DESIGN PRESSURE (psf) |
| GLASS TYPES 1 & 2                   | LMI - MISSILE D | 4 PT. LOCK or ADAMS-RITE 8600 | 192" x 104"             | 70                         |
| GLASS TYPE 3                        | LMI - MISSILE E | 4 PT. LOCK or ADAMS-RITE 8600 | 192" x 104"             | 70                         |
| GLASS TYPE 4                        | NON-IMPACT**    | 4 PT. LOCK or ADAMS-RITE 8600 | 192" x 104"             | 70                         |

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Glass Type 1  
9/16" LAMINATED GLASS

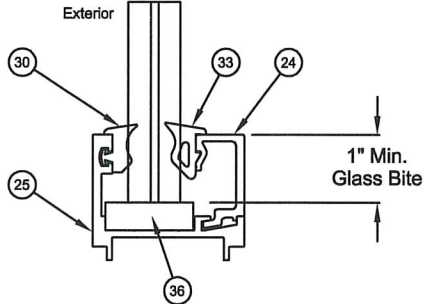
Glass Type 2  
1" INSULATED LAMINATED GLASS

Glass Type 3  
9/16" LAMINATED GLASS

Glass Type 4  
1/4" TEMPERED GLASS

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

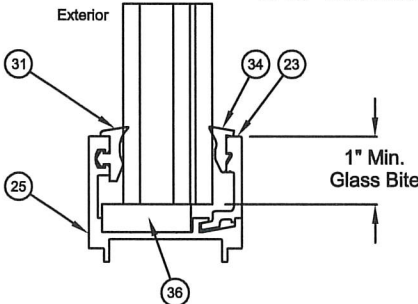
1/4" Heat Strengthened Glass  
.090" Sentryglas Interlayer  
by Kuraray  
1/4" Heat Strengthened Glass



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

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

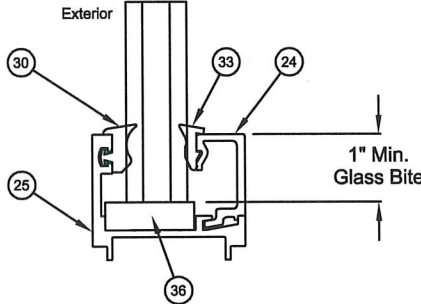
3/16" Full Tempered Glass  
3/8" Air Gap with Low Profile  
Aluminum Ramapo Spacer  
3/16" Heat Strengthened Glass  
.090" Sentryglas Interlayer  
by Kuraray  
3/16" Heat Strengthened Glass



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

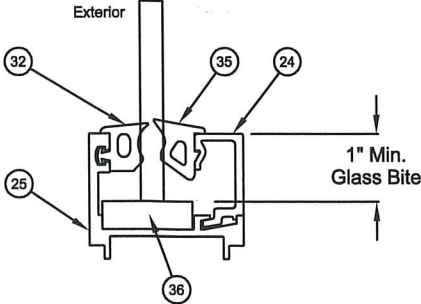
9/16" Laminated 'D' Impact Glass  
(.680" actual)

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

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



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

LEVEL D  
LARGE AND SMALL MISSILE IMPACT

LEVEL E  
LARGE AND SMALL MISSILE IMPACT

NON-IMPACT

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

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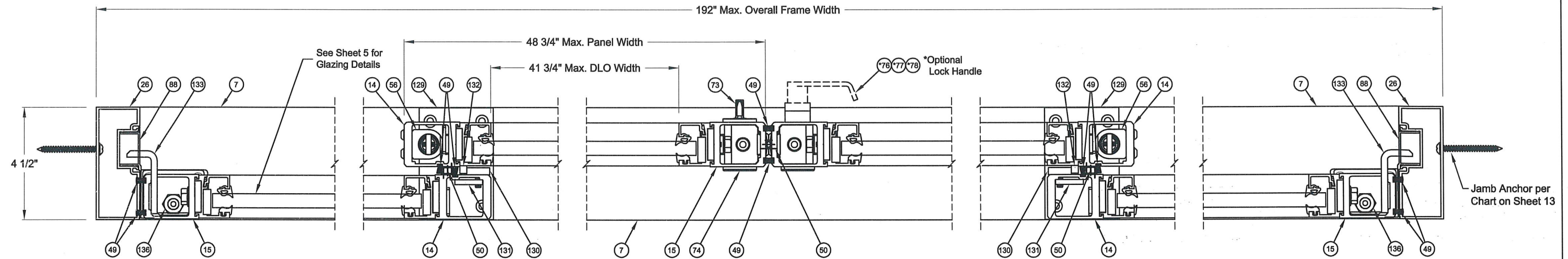
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APR 24 2023  
PROFESSIONAL ENGINEER

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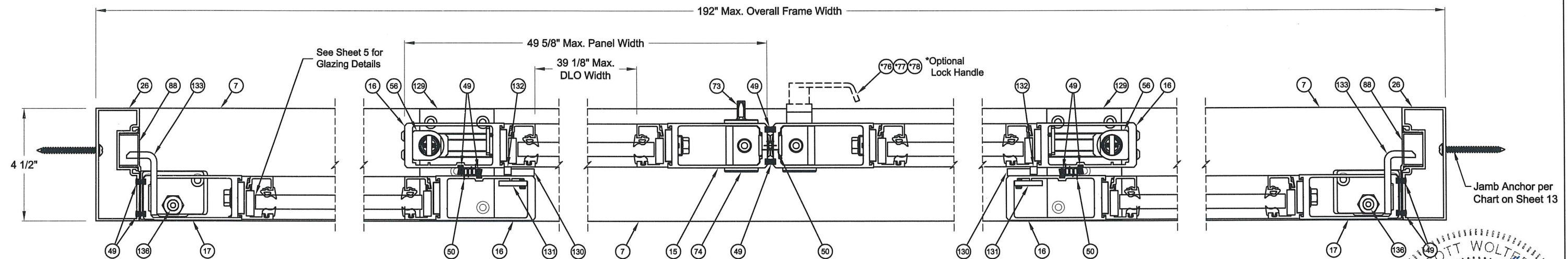


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**Section C-C, Narrow Stile**  
**BI-PARTING FULL BREAKOUT SHOWN**



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

|                 | Max. Panel Height | Max. DLO Height |
|-----------------|-------------------|-----------------|
| 4" Bottom Rail  | 95 7/8"           | 81 7/8"         |
| 7" Bottom Rail  | 95 7/8"           | 78 7/8"         |
| 10" Bottom Rail | 95 7/8"           | 75 7/8"         |

SCOTT WOLTERS  
LICENSE NO. 62354  
STATE OF FLORIDA  
APR 24 2023

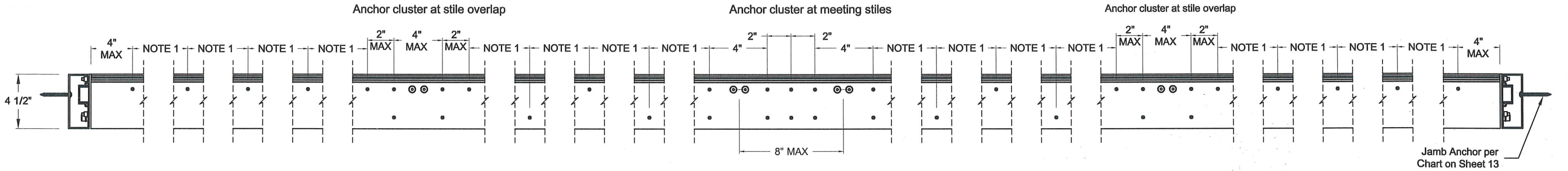
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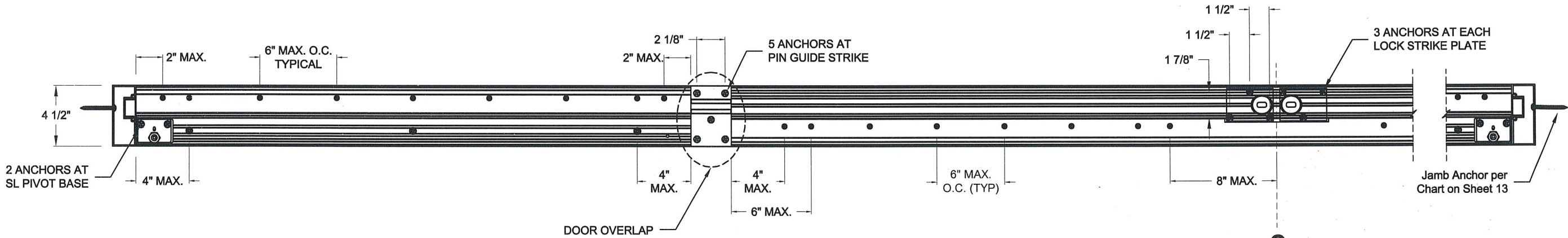
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NOTE 1: 10 1/2" Max. O.C.

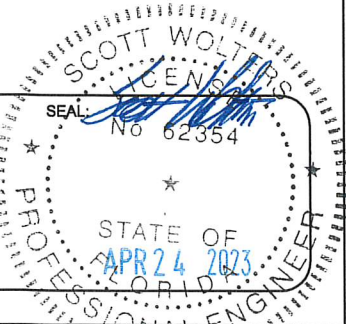
BI-PART HEADER ANCHOR LOCATIONS



BI-PART SILL ANCHOR LOCATIONS

NOTE 2: Left and right side sill anchoring locations symmetrical about package centerline.

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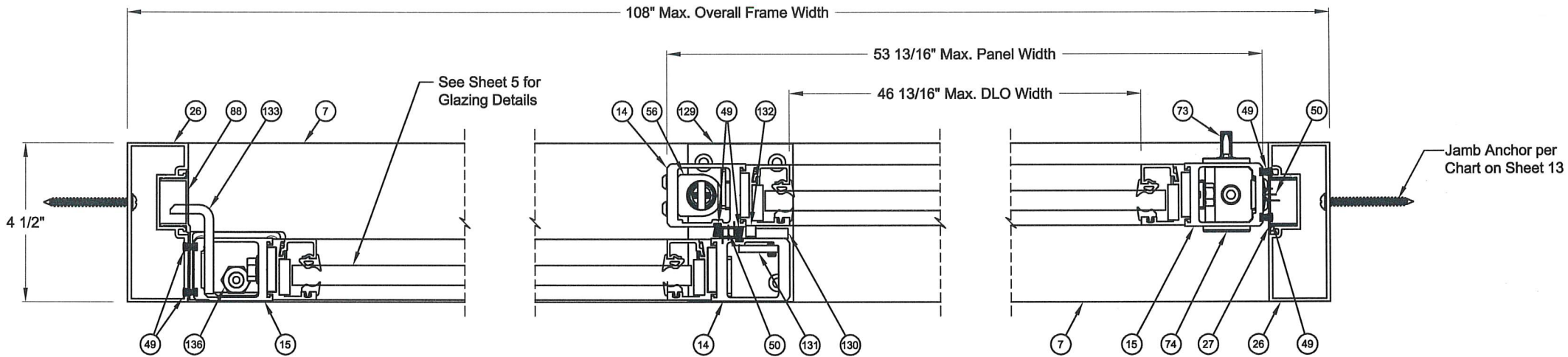
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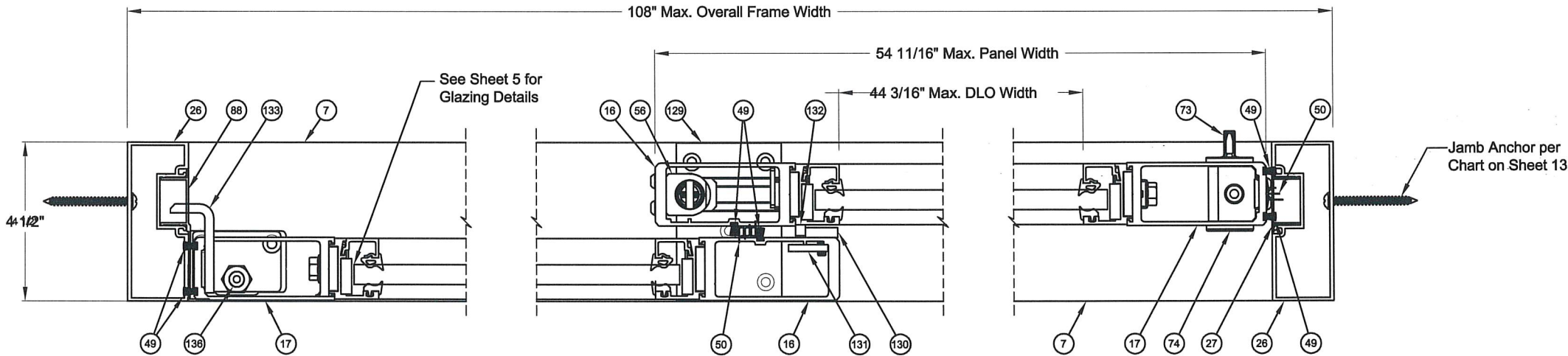
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Section F-F, Narrow Stile  
SINGLE SLIDE FULL BREAKOUT SHOWN

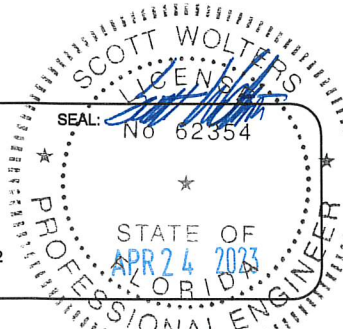


Section F-F, Medium Stile  
SINGLE SLIDE FULL BREAKOUT SHOWN

|              | Max. Panel Width | Max. DLO Width |
|--------------|------------------|----------------|
| Narrow Stile | 53 13/16"        | 46 13/16"      |
| Medium Stile | 54 11/16"        | 44 3/16"       |

|                 | Max. Panel Height | Max. DLO Height |
|-----------------|-------------------|-----------------|
| 4" Bottom Rail  | 95 7/8"           | 81 7/8"         |
| 7" Bottom Rail  | 95 7/8"           | 78 7/8"         |
| 10" Bottom Rail | 95 7/8"           | 75 7/8"         |

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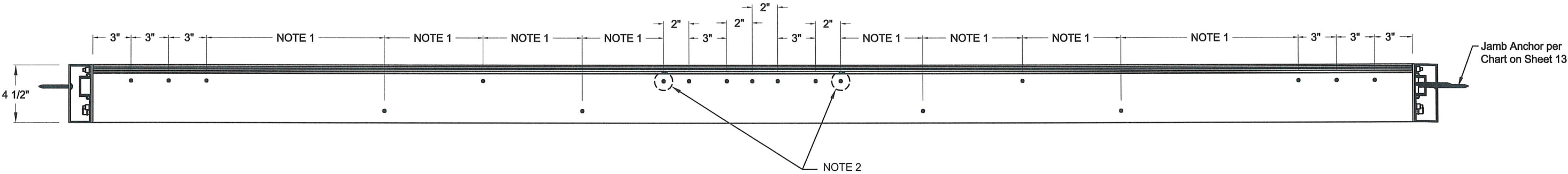
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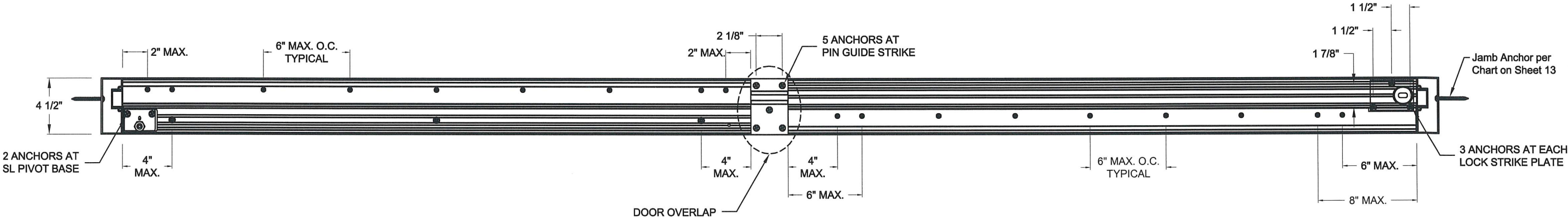
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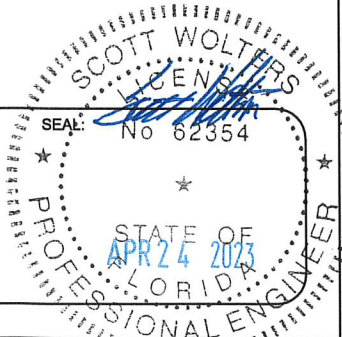
NOTE 1: 10 1/2" Max. O.C.  
NOTE 2: Circled Anchor Locations Required for  
Wood Installation Only

SINGLE SLIDE HEADER ANCHOR LOCATIONS



SINGLE SLIDE SILL ANCHOR LOCATIONS

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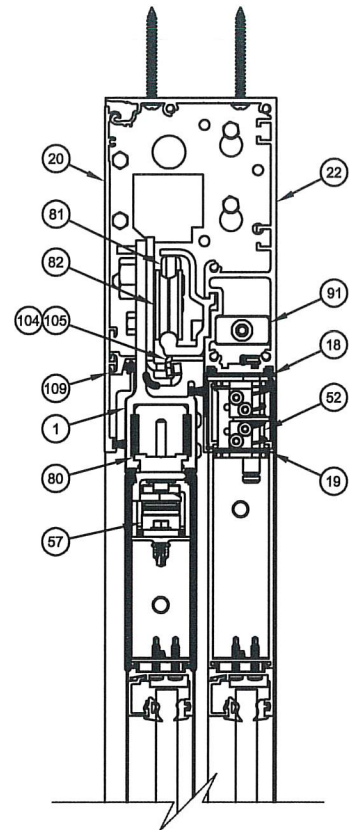
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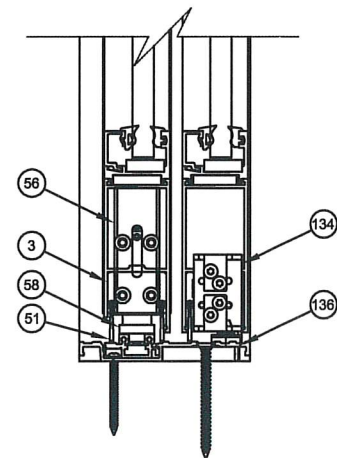
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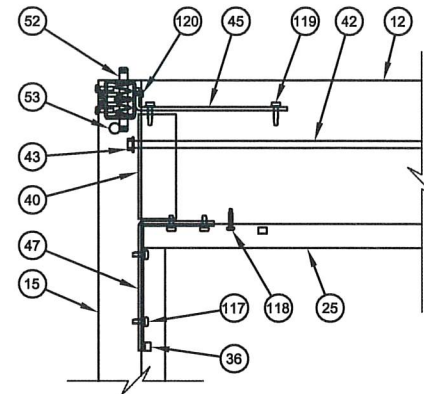
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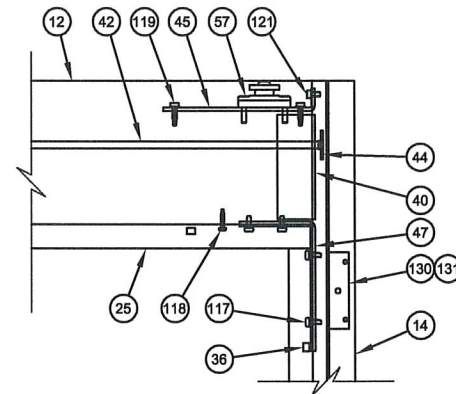
**Section A-A**



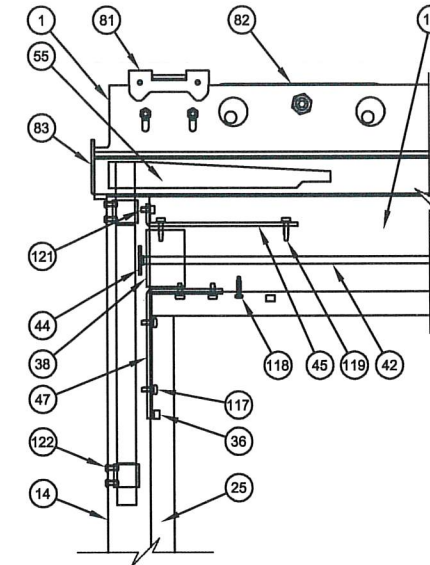
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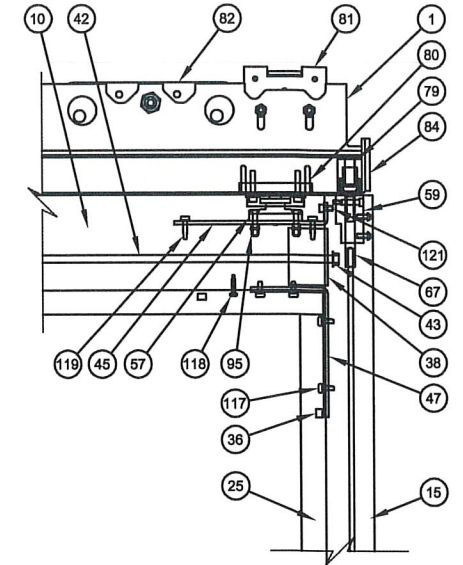
**Sidelite  
Top Jamb Corner**



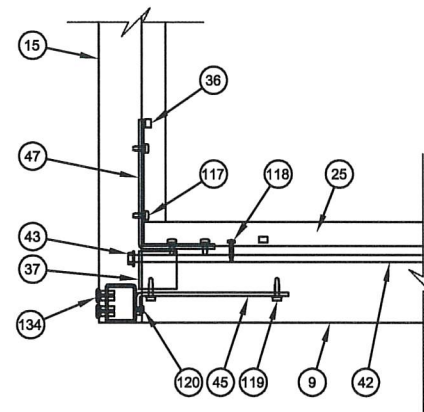
**Sidelite  
Top Lead Corner**



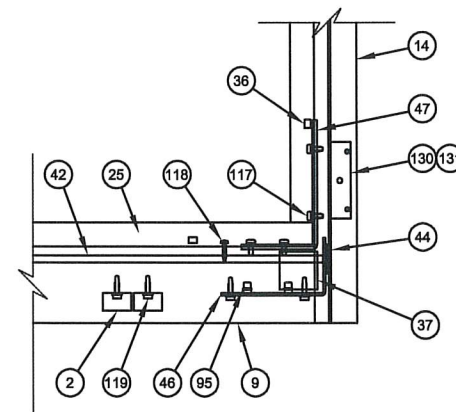
**Active Leaf  
Top Jamb Corner**



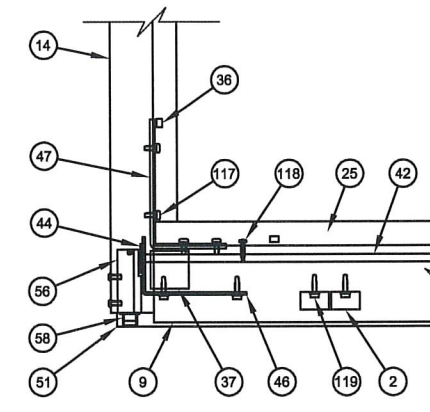
**Active Leaf  
Top Lead Corner**



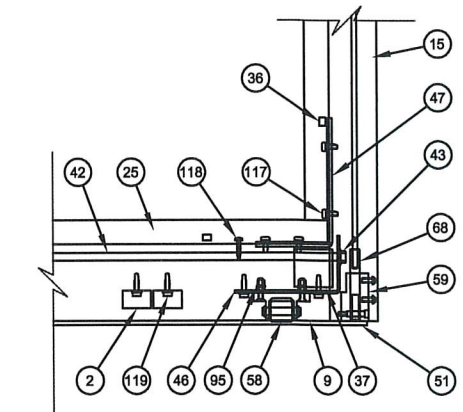
**Sidelite  
Bottom Jamb Corner**



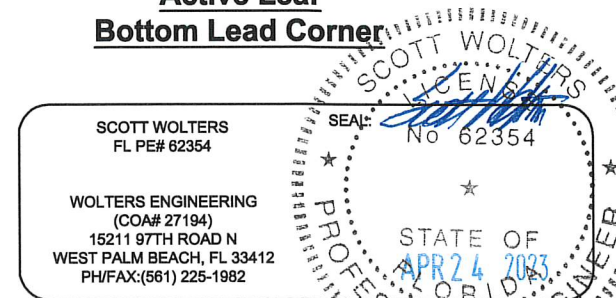
**Sidelite  
Bottom Lead Corner**



**Active Leaf  
Bottom Jamb Corner**



**Active Leaf  
Bottom Lead Corner**



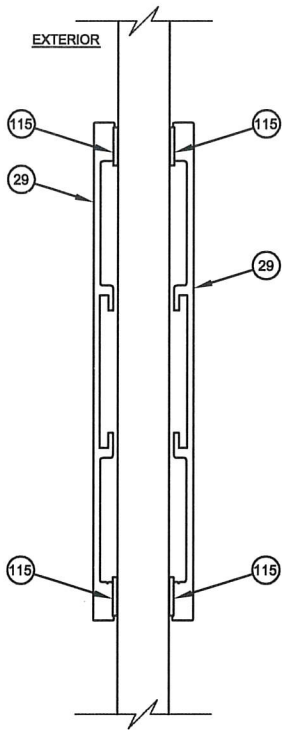
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| DRAWN BY          | DBN        |
| DATE              | 04/24/23   |
| SHEET DESCRIPTION |            |
| SHEET NO.         | 10 OF 20   |



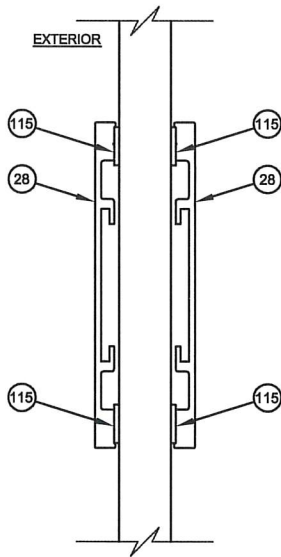
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RECORD  
WINDCORD 5400/5500 SLIDING DOOR SYSTEM  
BI-PARTING AND SINGLE SLIDING  
FULL BREAKOUT (HVHZ)

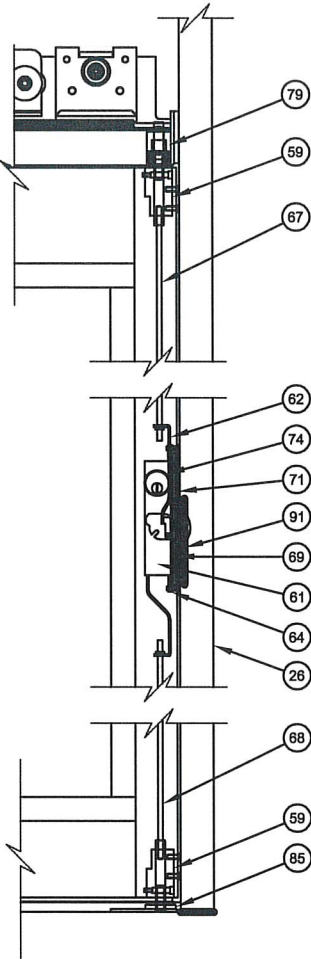
| Revisions |                 |      |          |
|-----------|-----------------|------|----------|
| Rev       | Description     | Date | Approved |
| 1         | Initial Release |      | CBG      |



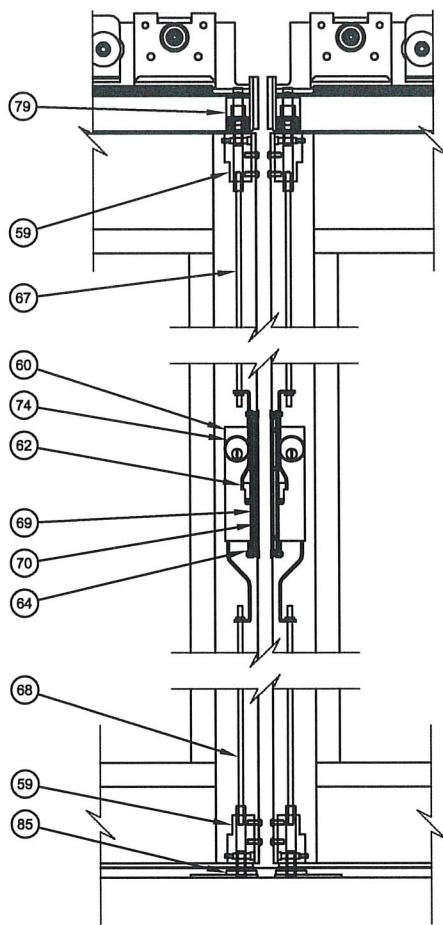
Section E-E  
4" Surface  
Applied Muntin



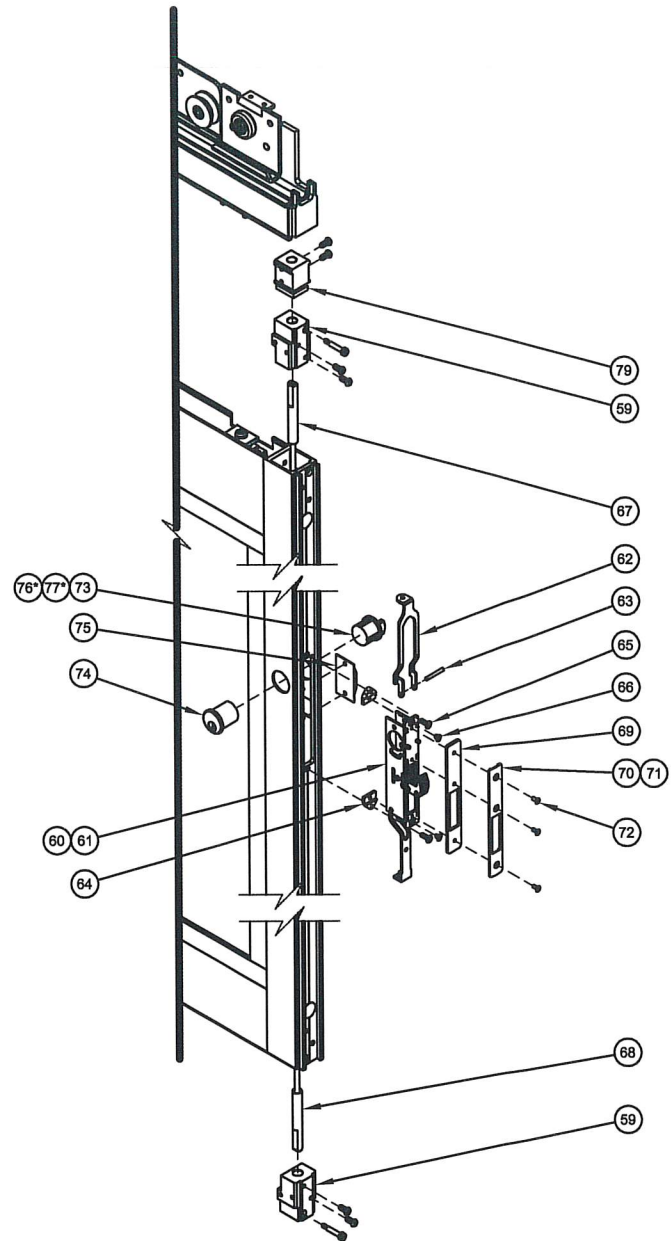
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2" Surface  
Applied Muntin



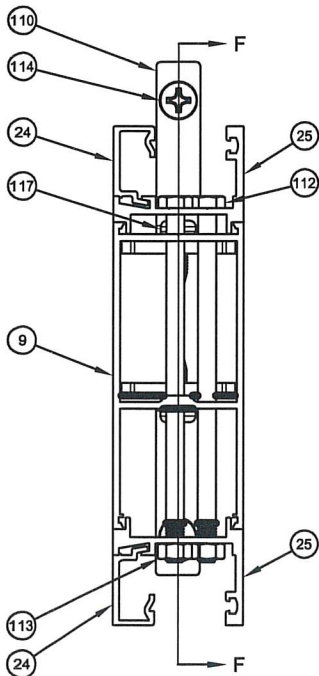
Single Slide  
3-Point Lock



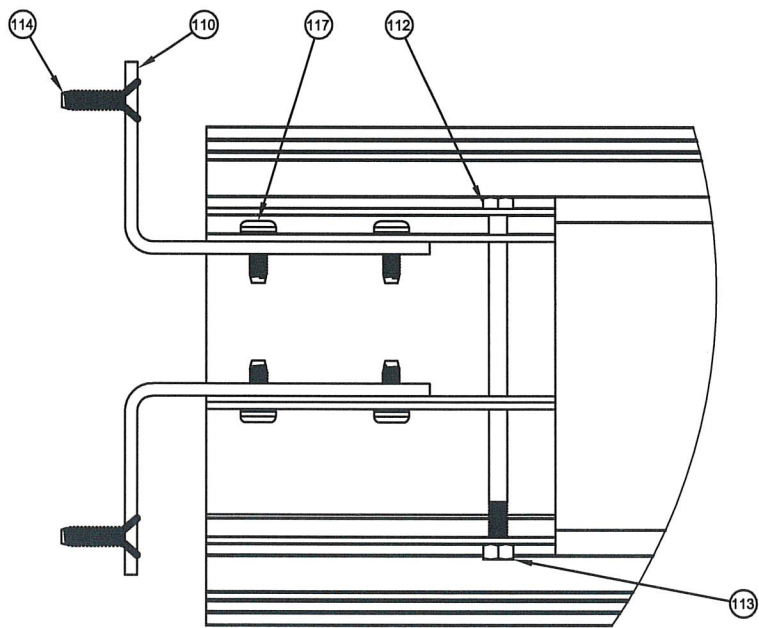
Bi-Part  
4-Point Lock



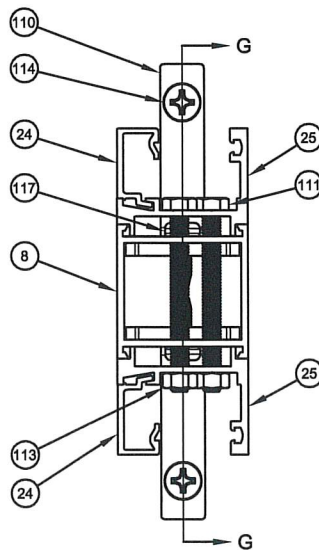
Locking System  
(Single Slide shown)



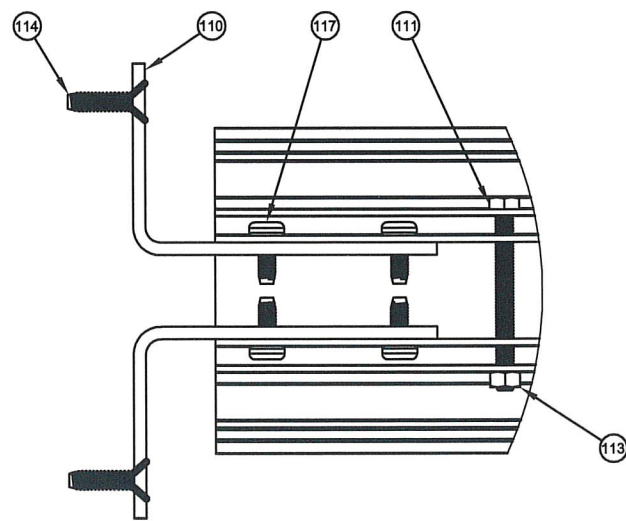
Section D-D  
True Divided 4" Muntin



Section F-F  
True Divided 4" Muntin

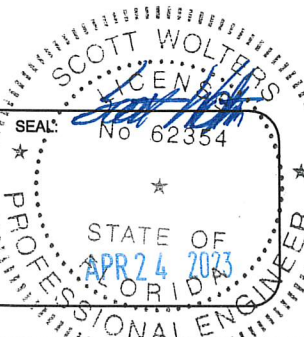


Section D-D  
True Divided 2" Muntin



Section G-G  
True Divided 2" Muntin

SCOTT WOLTERS  
FL PE# 62354  
WOLTERS ENGINEERING  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FAX: (561) 225-1982



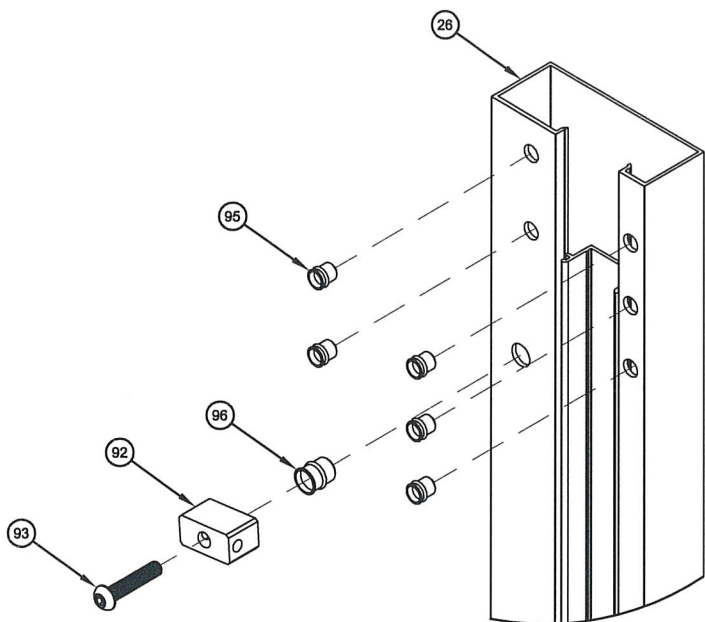
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| DRAWN BY          | DBN        |
| DATE              | 04/24/23   |
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| SHEET NO.         | 11 OF 20   |



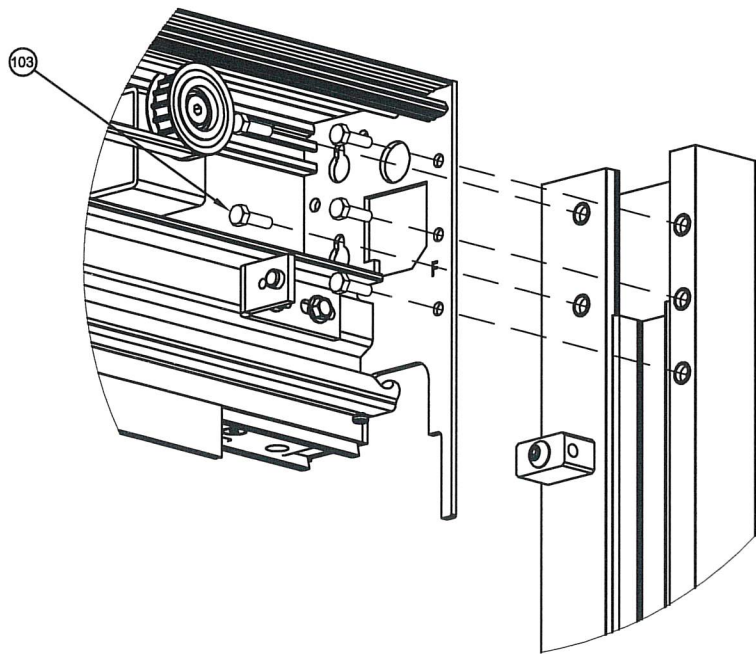
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BI-PARTING AND SINGLE SLIDING  
FULL BREAKOUT (HVHZ)

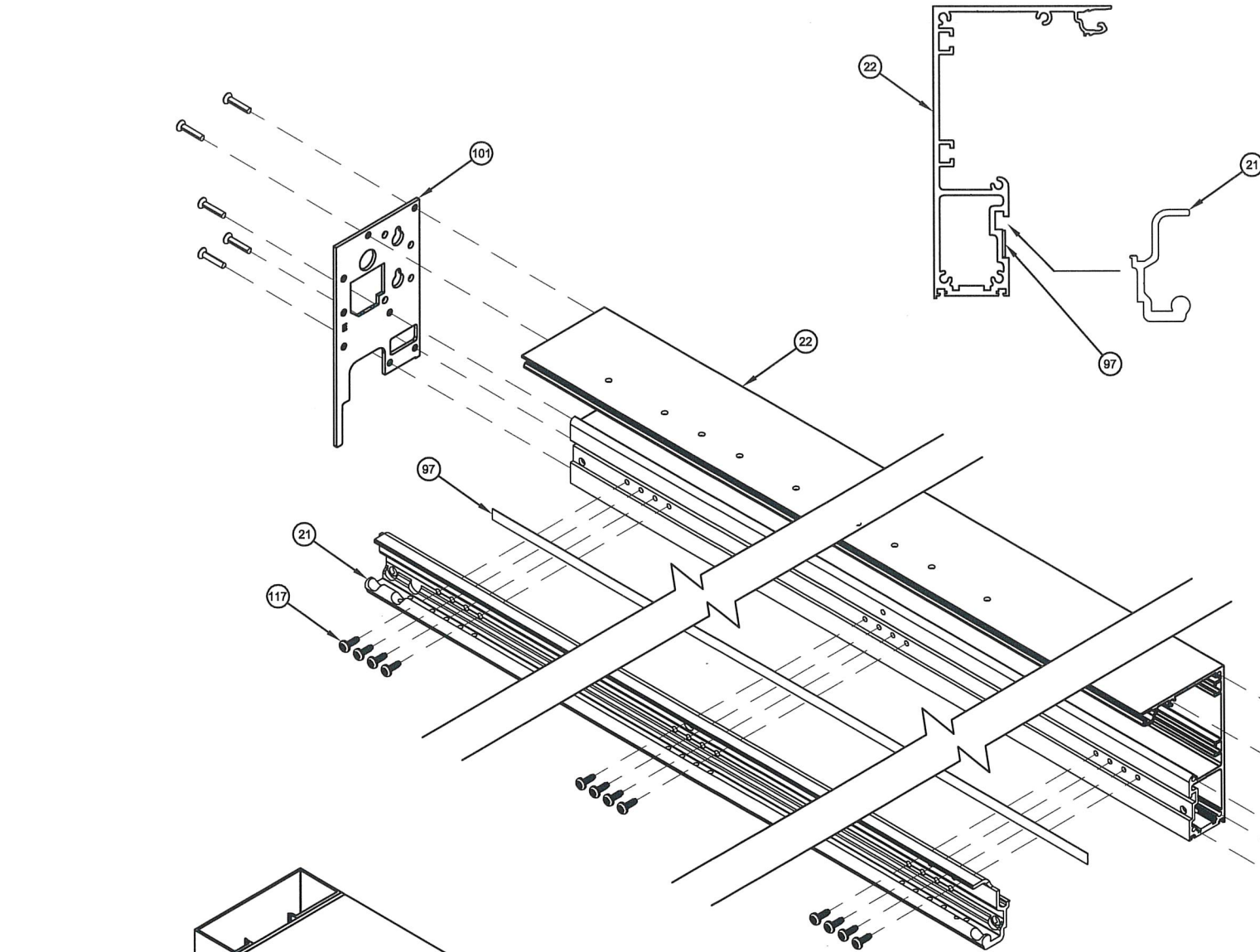
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| Rev       | Description     | Date | Approved |
| 1         | Initial Release |      | CBG      |



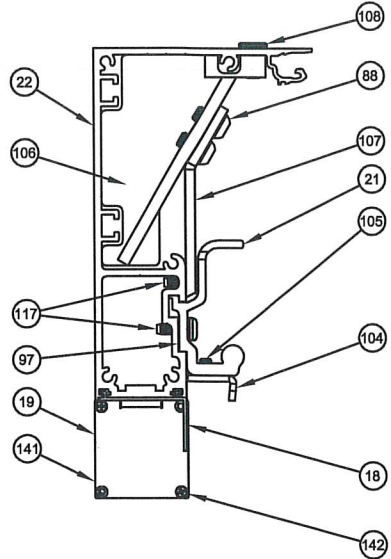
JAMB ASSEMBLY



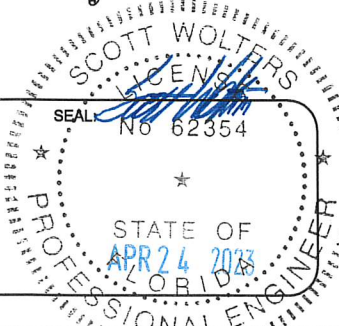
TYPICAL BEAM TO JAMB



TYPICAL TRACK TO BEAM



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|                    |                    |
|--------------------|--------------------|
| DWG NO. 1023672-HZ |                    |
| DRAWN BY DBN       | DATE 04/24/23      |
| SHEET DESCRIPTION  | SHEET NO. 12 OF 20 |

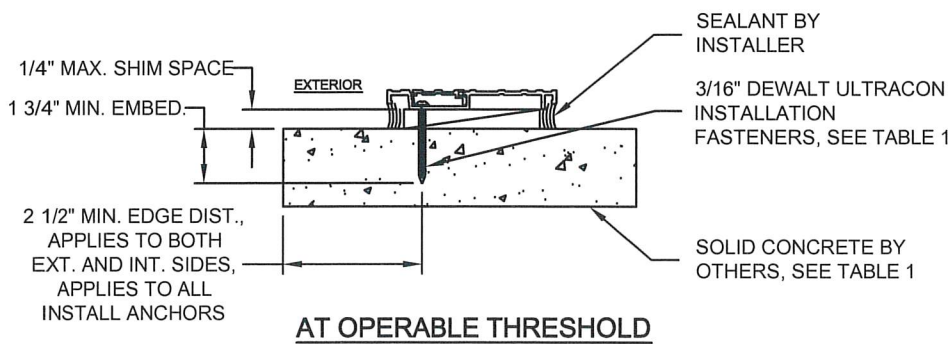
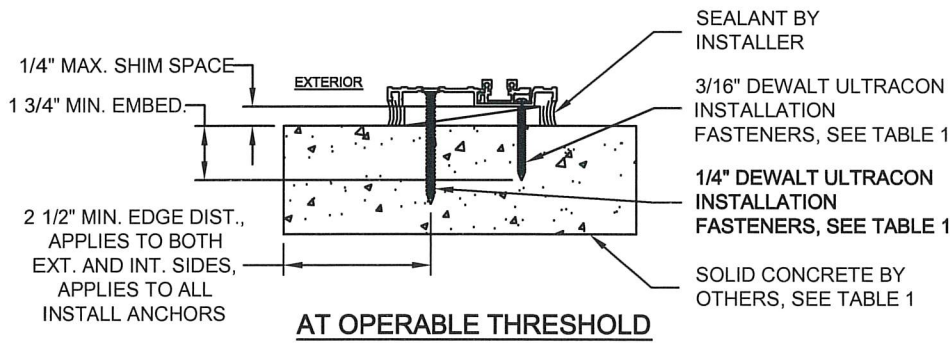
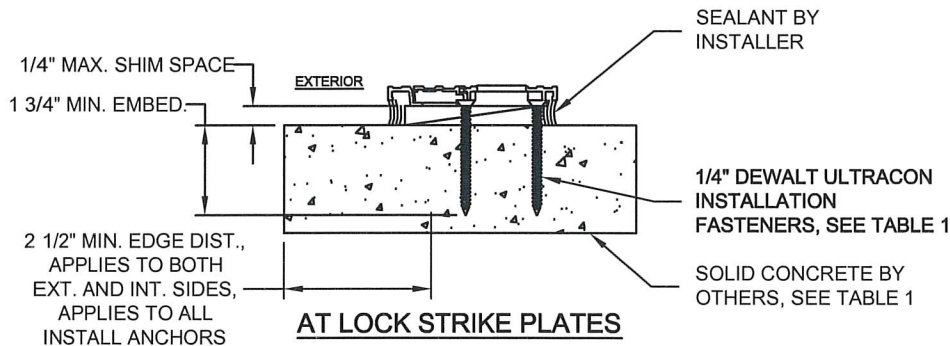
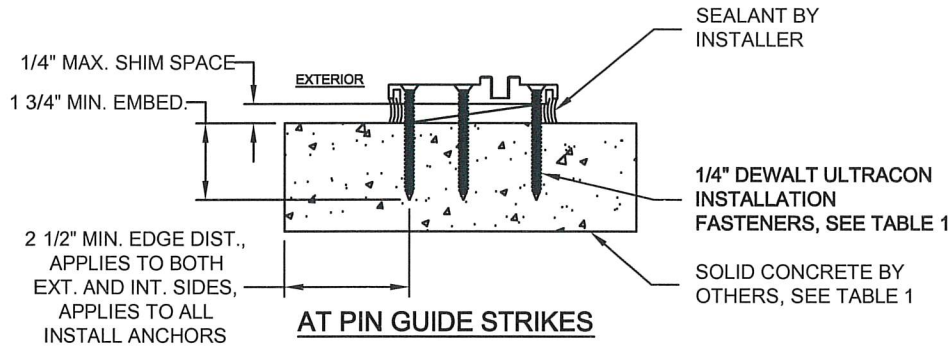


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FULL BREAKOUT (HVHZ)

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|-----------|-----------------|------|----------|
| Rev       | Description     | Date | Approved |
| 1         | Initial Release |      | CBG      |

TYPICAL SILL ANCHOR DETAILS IN CONCRETE



TYPICAL SILL ANCHOR DETAILS IN WOOD

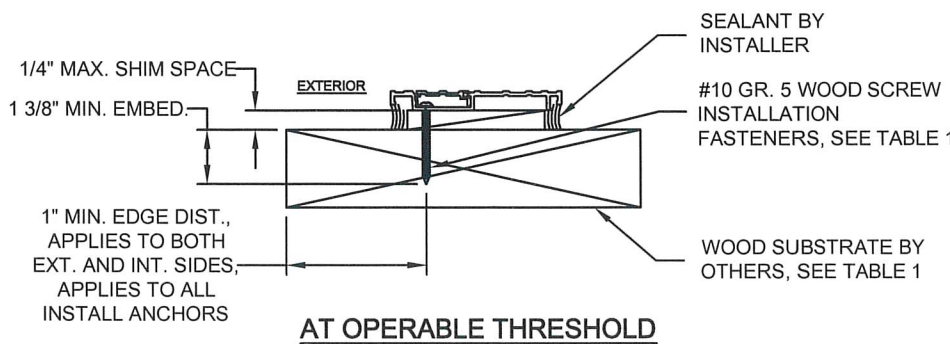
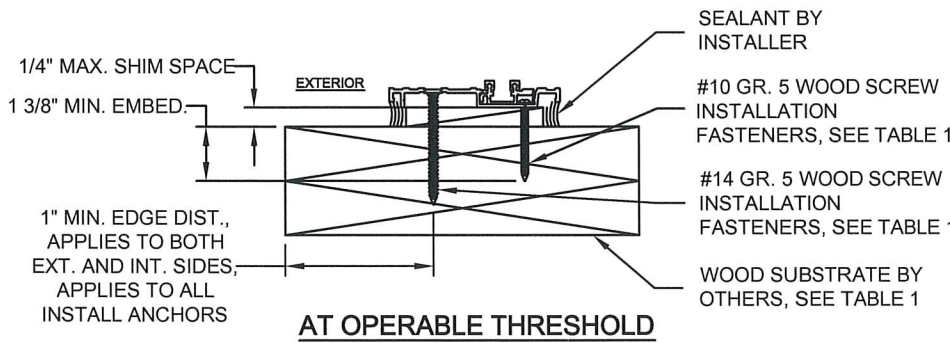
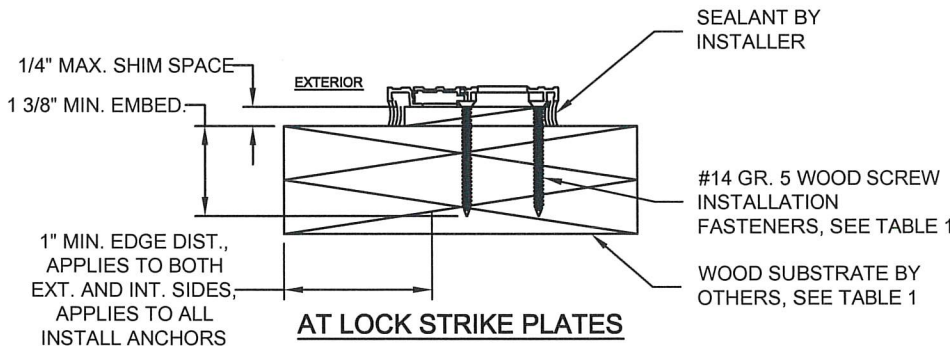
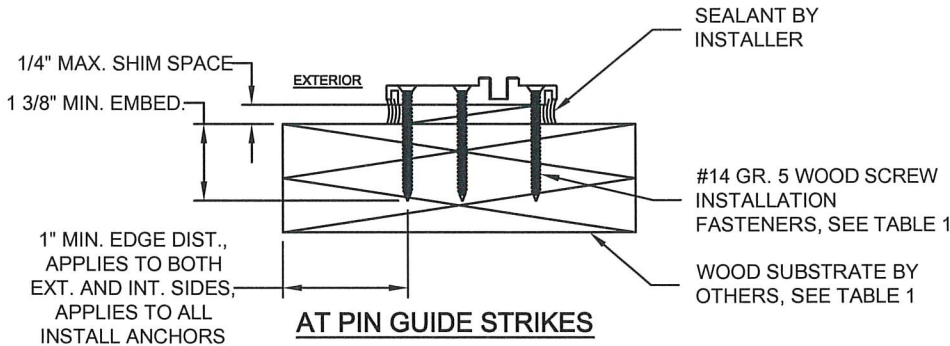


TABLE 1: INSTALLATION ANCHOR REQUIREMENTS

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

\*\*FULLY PENETRATES METAL WITH 3 THREADS BEYOND

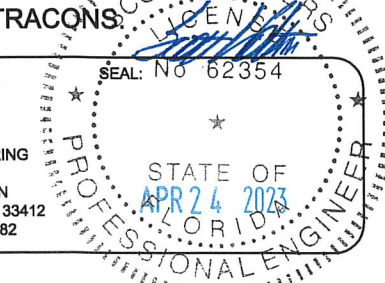
GENERAL ANCHOR NOTES:

1. INSTALL ANCHORS AS INDICATED IN DETAILS ON SHEETS 2 THRU 9.
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 4), 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. ANCHORS ARE FLATHEAD AT ALL PLATE/STRIKE LOCATIONS AND ROUND/PAN/HEX-WASHER HEAD ELSEWHERE.
7. CONCRETE ANCHORS THAT PENETRATE THE THRESHOLD ONLY ARE 3/16" DIA. DEWALT ULTRACONS. ANCHORS THAT PENETRATE DOOR HARDWARE OR STRIKE PLATES ARE 1/4" DIA. DEWALT ULTRACONS.

SCOTT WOLTERS  
FL PE# 62354

WOLTERS ENGINEERING  
(COA# 27194)  
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SEAL: No 62354



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|-------------------|------------|
| DWG NO.           | 1023672-HZ |
| DRAWN BY          | DBN        |
| DATE              | 04/24/23   |
| SHEET DESCRIPTION |            |
| SHEET NO.         | 13 OF 20   |

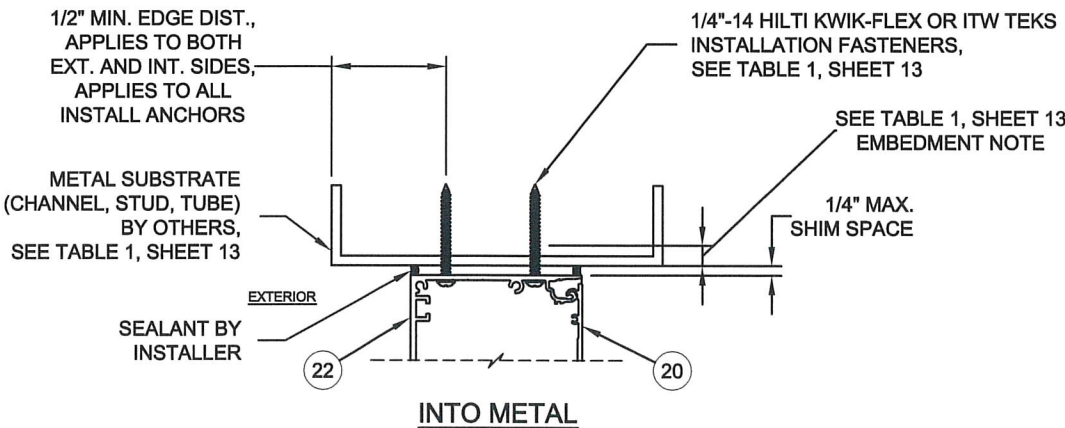
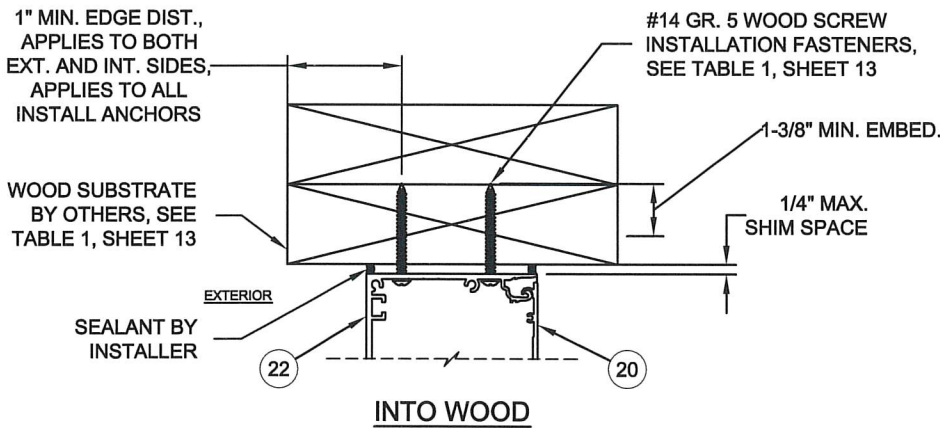
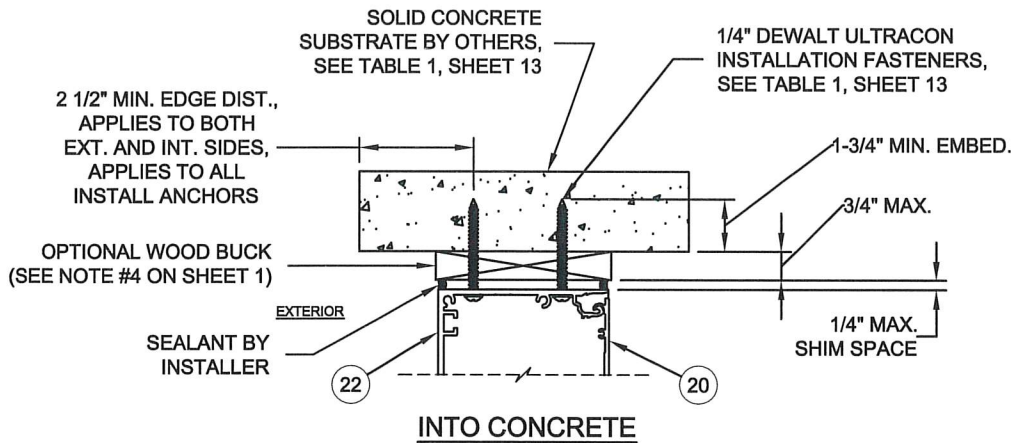


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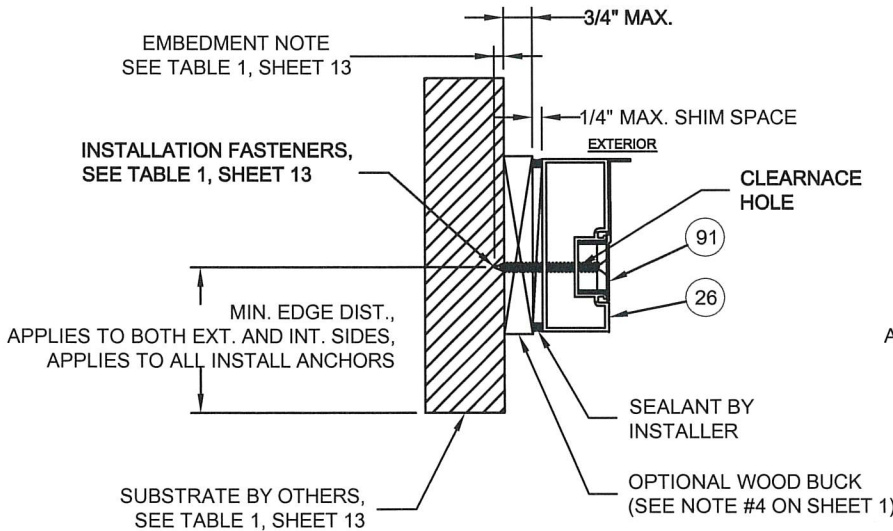
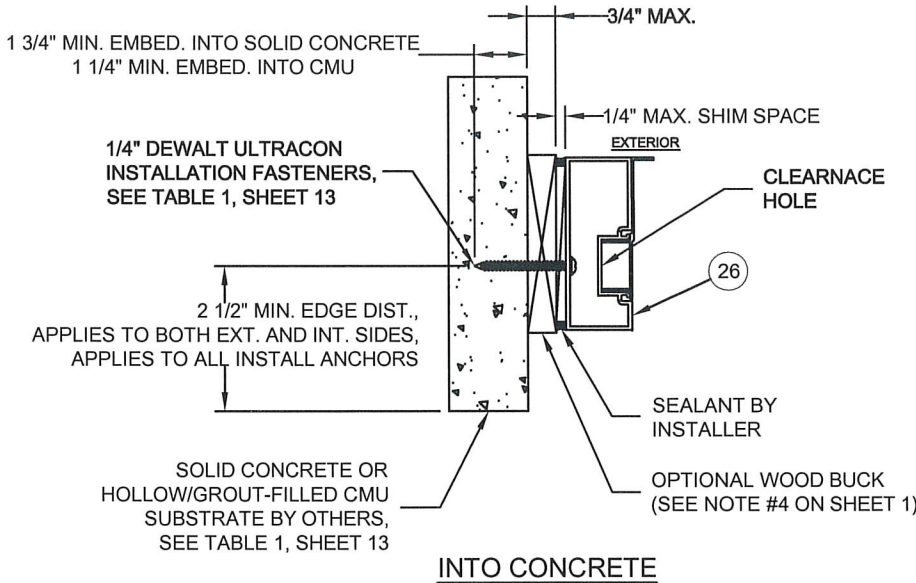
RECORD  
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BI-PARTING AND SINGLE SLIDING  
FULL BREAKOUT (HVHZ)

| Revisions |                 |      |          |
|-----------|-----------------|------|----------|
| Rev       | Description     | Date | Approved |
| 1         | Initial Release |      | CBG      |

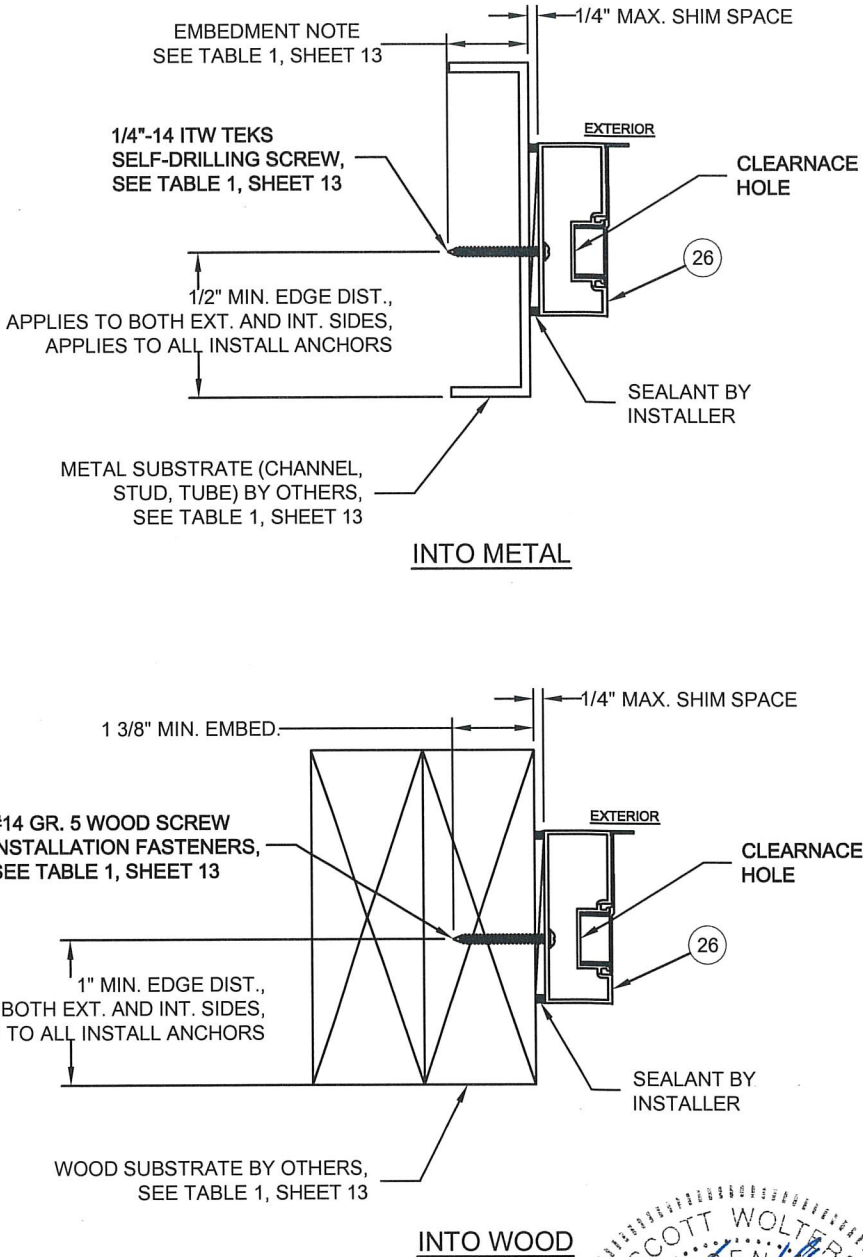
TYPICAL HEADER ANCHOR DETAILS



TYPICAL JAMB ANCHOR DETAILS

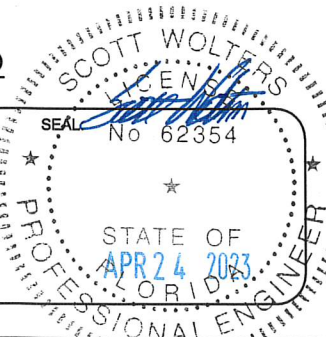


TYP. JAMB LOCK STRIKE INSTALLATION



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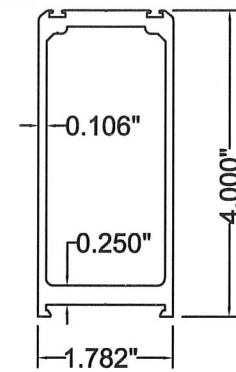
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| DRAWN BY          | DBN        |
| DATE              | 04/24/23   |
| SHEET DESCRIPTION |            |
| SHEET NO.         | 14 OF 20   |



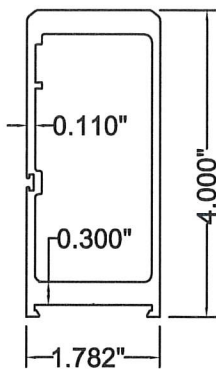
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WINDCORD 5400/5500 SLIDING DOOR SYSTEM  
BI-PARTING AND SINGLE SLIDING  
FULL BREAKOUT (HVHZ)

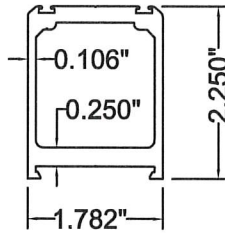
| Revisions |                 |      |          |
|-----------|-----------------|------|----------|
| Rev       | Description     | Date | Approved |
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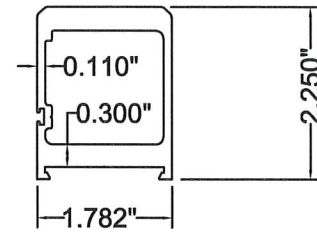
17 V1M  
6063-T5



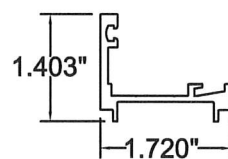
16 V2M  
6063-T5



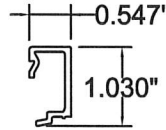
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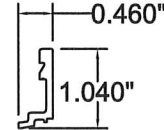
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6063-T5



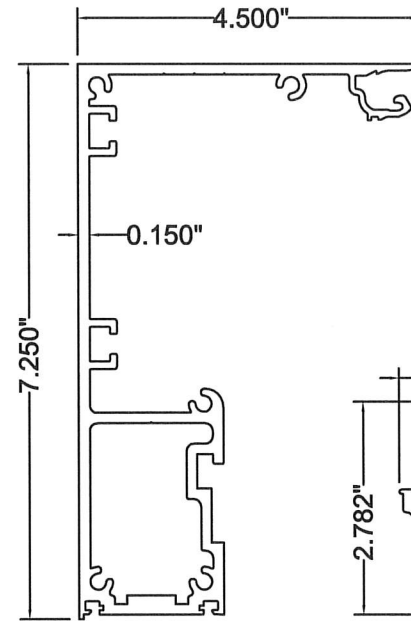
25 Gutter  
6063-T5



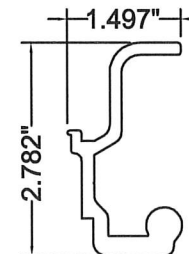
24 9/16" Snap  
6063-T5



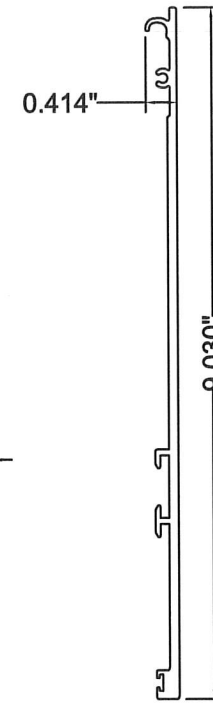
23 1" Snap  
6063-T6



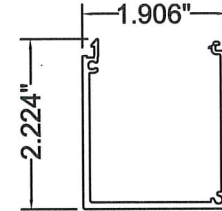
22 Record  
Hurricane Beam  
6063-T6



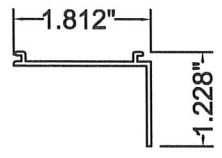
21 Resilience Track  
6063-T5



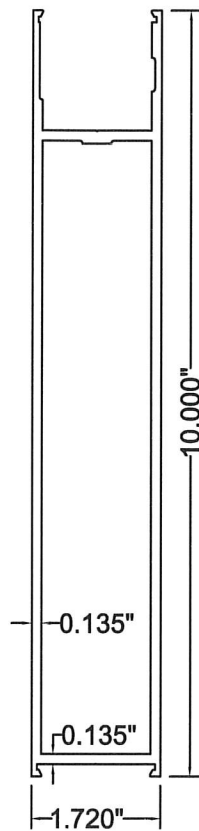
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Hurricane Cover  
6063-T5



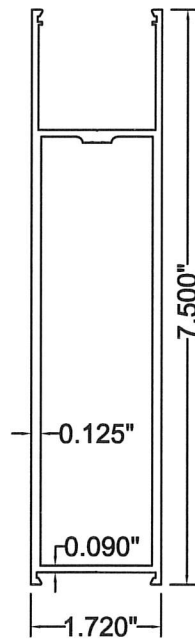
19 Record Hurricane  
Sensor Cap  
6063-T6



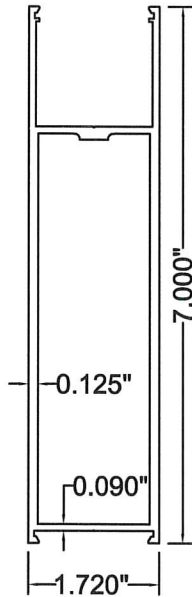
18 S/L Cap  
6063-T5



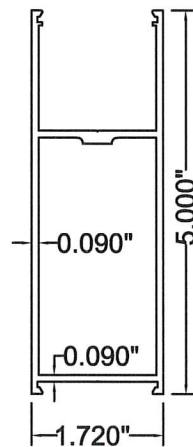
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6063-T5



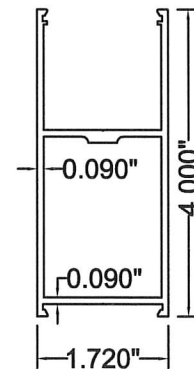
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6063-T6



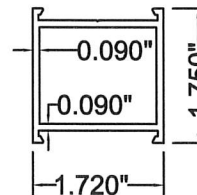
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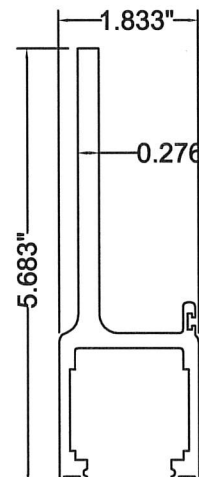
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6063-T5



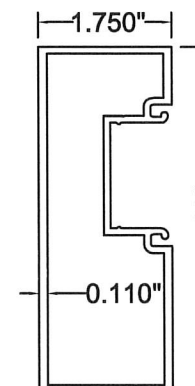
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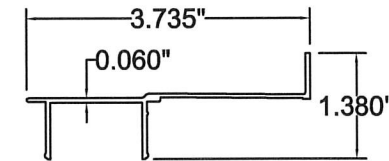
8 H2  
6063-T5



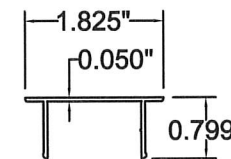
1 Carrier  
6063-T6



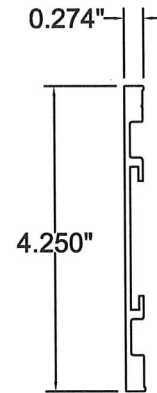
26 Jamb  
6063-T6



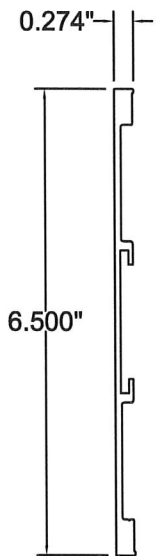
88 Resilience Jamb Filler  
6063-T6



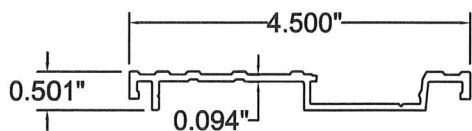
27 Jamb Snap  
6063-T6



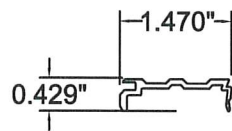
28 2" Surface  
Applied Muntin  
6063-T6



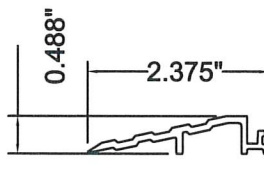
29 4" Surface  
Applied Muntin  
6063-T6



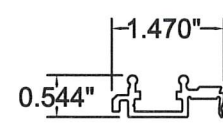
7 Threshold  
6063-T6



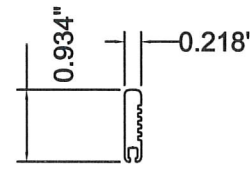
6 Filler  
6063-T5



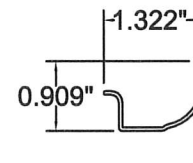
5 Leadup  
6063-T5



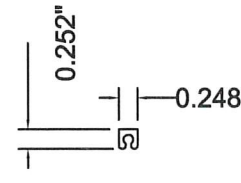
4 Pin Guide  
6063-T5



3 Sweep Housing  
6063-T5



2 Sweep Clip  
6063-T5



87 Track Cap  
Nylon 6

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  
APR 24 2023  
1023672-MZ

|                   |            |
|-------------------|------------|
| DWG NO.           | 1023672-MZ |
| DRAWN BY          | DBN        |
| DATE              | 04/24/23   |
| SHEET DESCRIPTION |            |
| SHEET NO.         | 15 OF 20   |



RECORD U.S.A. INC.  
4324 PHIL HARGETT COURT  
P.O. BOX 3099  
MONROE, NC 28111  
PHONE: 1-866-237-2687

RECORD  
WINDCORD 5400/5500 SLIDING DOOR SYSTEM  
BI-PARTING AND SINGLE SLIDING  
FULL BREAKOUT (HVHZ)

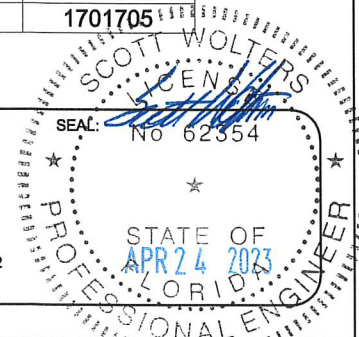
| Revisions |                 |      |          |
|-----------|-----------------|------|----------|
| Rev       | Description     | Date | Approved |
| 1         | Initial Release |      | CBG      |

| POS. | DESCRIPTION                               | PART NO.     |
|------|-------------------------------------------|--------------|
| 1    | Carrier                                   | 1015669      |
| 2    | Sweep Clip                                | 1013780      |
| 3    | Sweep Housing                             | US01-0685    |
| 4    | Pin Guide                                 | 1013866      |
| 5    | Leadup                                    | 1013364      |
| 6    | Filler                                    | 1018095      |
| 7    | Threshold                                 | 1013363      |
| 8    | H2 Muntin Rail                            | 1012947      |
| 9    | H4 Bottom Rail                            | 1012942      |
| 10   | H5 A/L Top Rail                           | 1012944      |
| 11   | H7 Bottom Rail                            | 1012945      |
| 12   | H7.5 S/L Top Rail                         | 1016075      |
| 13   | H10 Bottom Rail                           | 1012946      |
| 14   | V2N HD Rail                               | 1018841      |
| 15   | V1N HD Rail                               | 1018840      |
| 16   | V2M HD Rail                               | 1018843      |
| 17   | V1M HD Rail                               | 1018842      |
| 18   | Sidelite Cap Extrusion                    | 1008138      |
| 19   | Record Hurricane Sensor Cap               | 1022922      |
| 20   | Record Hurricane Cover                    | 1022921      |
| 21   | XG Resilience Track                       | 1015670      |
| 22   | Record Hurricane Beam                     | 1022920      |
| 23   | XG Resilience 1" IG Snap                  | 1015702      |
| 24   | XG Resilience 9/16" Snap                  | 1015701      |
| 25   | Gutter                                    | 1015700      |
| 26   | Jamb Tube                                 | US01-0931    |
| 27   | Jamb Snap                                 | US01-0933    |
| 28   | 2" Surface Applied Muntin                 | 1018855      |
| 29   | 4" Surface Applied Muntin                 | 1018856      |
| 30   | Fixed Seal (9/16" L.D. glass)             | 1703421      |
| 31   | Fixed Seal (9/16" L.E. & 1" L.D. glass)   | 1703638      |
| 32   | Fixed Seal (1/4" glass)                   | 1703424      |
| 33   | Wedge Seal (9/16" L.D. glass)             | 1703422      |
| 34   | Wedge Seal (9/16" L.E. & 1" L.D. glass)   | 1703423      |
| 35   | Wedge Seal (1/4" glass)                   | 1703425      |
| 36   | Glass Spacer Block                        | 1016294      |
| 37   | 4" Anti-Twist Assembly Clip               | 1013803-2    |
| 38   | 5" Anti-Twist Assembly Clip               | 1013803-3    |
| 39   | 7" Anti-Twist Assembly Clip               | 1013897-2    |
| 40   | 7.5" Rail Clip                            | 1016607      |
| 41   | 10" Anti-Twist Assembly Clip              | 1013897-1    |
| 42   | Rod, Threaded, 3/8"                       | 50-09-100    |
| 43   | Nut, 3/8-16 Whiz flange zinc              | 50-09-132    |
| 44   | Square Threaded Rod Nut                   | 1016327      |
| 45   | Anti-Twist Bracket                        | 1016628      |
| 46   | Anti-Twist, R96                           | 1019248      |
| 47   | XG Gutter Corner Bracket, Interlock Mount | 1019594      |
| x 48 | Heyco Plug #4055, Black                   | 1704108      |
| 49   | Weather Strip, Tall Fuzz                  | US20-0905-01 |
| 50   | Header Smoke Seal - 20' Length            | US20-1658-02 |

| POS. | DESCRIPTION                                       | PART NO.     |
|------|---------------------------------------------------|--------------|
| 51   | Sweep                                             | US20-1627-02 |
| 52   | Top Pivot Assembly                                | 1012549      |
| 53   | Locking Panel Plug, for 7/16" I.D. hole           | 1703680      |
| 54   | Narrow Stile Eco Door Kit                         | 1009225      |
| 55   | XG PSA Arm Kit, HD                                | 1017036      |
| 56   | Resilience Pin Guide Assembly                     | 1016658      |
| 57   | SL500 Resilience Ball Catch Kit                   | 1017039      |
| 58   | XG Resilience Tee Block                           | 1016649      |
| 59   | XG Resilience HD Lock Pin Guide Kit               | 1019780      |
| 60   | 2 PT Lock                                         | 1703500      |
| 61   | 3 PT CVR Lock                                     | 1703501      |
| 62   | Upper Arm 4016 lock AR 22-075                     | 1703503      |
| 63   | Upper Arm Pin 4016 lock                           | 1703504      |
| 64   | XG Lock Body Mounting Block                       | 1019595      |
| 65   | #10-32 x 1/2" Ultra Low Profile Socket Head Screw | 1704073      |
| 66   | Screw, PFU, 10-32x1/4", Znc nyloc                 | 50-09-203    |
| 67   | Lock Pin Assembly, Top                            | 1016991      |
| 68   | Lock Pin Assembly, Bottom                         | 1016992      |
| 69   | XG Faceplate Spacer, Resilience                   | 1019518      |
| 70   | Faceplate, Flush, CL/BK Fuzz                      | 50-06-131/FB |
| 71   | Faceplate, CL, w/ BK Fuzz                         | 50-06-102    |
| 72   | #8-32 x 3/8" FHCS                                 | 1703507      |
| 73   | Cylinder,Thumbturn, CL                            | 50-06-106    |
| 74   | Cylinder, Keyed-alike, CL                         | 50-06-198KA  |
| 75   | Indicator, Exit, 1-Pt, CL                         | 50-06-161    |
| 76   | Deadbolt Lever, AR4550, RH, CL                    | US05-0771-01 |
| 77   | Deadbolt Lever, AR4550, LH, CL                    | US05-0771-03 |
| 78   | #10-32 Steel Rivnut                               | US09-0852-01 |
| 79   | XG Carrier Lock Strike Assy                       | 1016637      |
| 80   | Kit, Ball Catch, Carrier, CL                      | US05-1609-01 |
| 81   | XG Blade Transmission Bracket Assy                | 1016644      |
| 82   | XG Tandem Carriage Assembly                       | 1016641      |
| 83   | Carrier End Cap                                   | 1008415      |
| 84   | Carrier End Cap Assembly                          | 1008774      |
| 85   | XG Lock Strike Plate                              | 1016610      |
| 86   | #14 x 3in FH sheetmetal screw                     | 1703426      |
| 87   | Track Cap                                         | 50-20-135    |
| 88   | Resilience Jamb Filler                            | 1016844      |
| 89   | Jamb Interlock Strike                             | US04-0948    |
| 90   | #14 x 4in round head screw                        | 1703494      |
| 91   | Resilience Jamb Lock Strike                       | 1017900      |
| 92   | Resilience Sheer Block                            | 1016612      |
| 93   | M8x40mm BHCS Black                                | 1703691      |
| 94   | M8 x 18 SHCS                                      | 1703495      |
| 95   | M6 Rivnut                                         | US09-1560-01 |
| 96   | M8 Steel Rivnut                                   | 1703429      |
| 97   | Double-sided Tape (Track)                         | 1010787      |
| 98   | Carrier Positive Stop Bracket, Single Slide       | 1017002      |
| 99   | Carrier Positive Stop Bracket, Bi-Part            | 1016615      |
| 100  | Record Hurricane Beam End Plate F                 | 1022929      |

| POS. | DESCRIPTION                                      | PART NO.     |
|------|--------------------------------------------------|--------------|
| 101  | Record Hurricane Beam End Plate E                | 1022928      |
| 102  | M6 x 30 Flathead, Posidrive Thread Forming Screw | 1701704      |
| 103  | Screw, HEX, m6x20, znc, CL8.8                    | 93-09-723187 |
| 104  | Beam Interlock Hook                              | 1016622      |
| 105  | M6x12, FHCS                                      | 50-09-153    |
| 106  | Record Hurricane Support Bracket Assembly        | 1022927      |
| 107  | Record Hurricane Support Bracket D               | 1022926      |
| 108  | 5/16-18 Low Profile Wafer Screws                 | 1703593      |
| 109  | Cover Latch Assembly                             | 1008094      |
| 110  | XG Muntin 'L' Bracket, Resilience                | 1019660      |
| 111  | XG M6x60mm HHCS                                  | 1703666      |
| 112  | XG M6x115mm HHCS, CL                             | 1703710      |
| 113  | M6 HEX NUT                                       | 04-09-726016 |
| 114  | XG M6x20mm FHCS, Thread Former, Phillips Drive   | 1703679      |
| 115  | Double-sided Tape (Surface Applied Muntin)       | 1704179      |
| 116  | Resilience Crash Bar Kit                         | 1017922      |
| 117  | M6x16mm Trilobe BHCS                             | 1703493      |
| 118  | #10x1" PPH Tek Screw                             | 70-09-216    |
| 119  | Screw, HWH, 1/4-14x1"TEK                         | US09-1294-01 |
| 120  | M5x8mm BHCS                                      | 1703508      |
| 121  | M6x12mm SHCS BLK Zinc                            | 1703632      |
| 122  | M6x14mm BHCS                                     | 1703471-02   |
| 123  | #14 x 2.5in BH sheetmetal screw                  | 1703431      |
| 124  | #10 x 2in PH sheetmetal screw                    | 1703427      |
| 125  | 1/4"-14 x 2" HWH #3 Pt steel self drilling screw | 1703633      |
| 126  | 1/4" x 3-1/4" PFH Elco Ultracon Conc. Anchor     | 1703634      |
| 127  | 3/16" x 1-3/4" HWH Elco Ultracon Conc. Anchor    | 1703635      |
| 128  | 1/4" x 1-3/4" HWH Elco Ultracon Conc. Anchor     | 1703636      |
| 129  | Pin Guide Strike                                 | 1016611      |
| 130  | Kit, Resilience Interlock Bar                    | 1018093      |
| 131  | Nut Plate, Interlock                             | 1019247      |
| 132  | Kit, Interlock Hook                              | 1018059      |
| 133  | Kit, Resilience Jamb Interlock Hook              | 1018092      |
| 134  | Bottom Pivot Assembly                            | 1012548      |
|      |                                                  |              |
| 136  | Resilience S/L Pivot Base Kit                    | 1019262      |
| 137  | AdamsRite 8600 Exit Device - Optional            | G86-11-XX    |
| 138  | Level E Lock Guard, Left                         | 1017889      |
| 139  | Level E Lock Guard, Right                        | 1017890      |
| 140  | #10-16 x 5/8" PPH Tek Screw                      | 53-09-003    |
| 141  | Record Hurricane, Sensor Cap End Plate           | 1022942      |
| 142  | M3x8 PPH Screw                                   | 1701705      |

SCOTT WOLTERS  
FL PE# 62354  
  
WOLTERS ENGINEERING  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FAX:(561) 225-1982

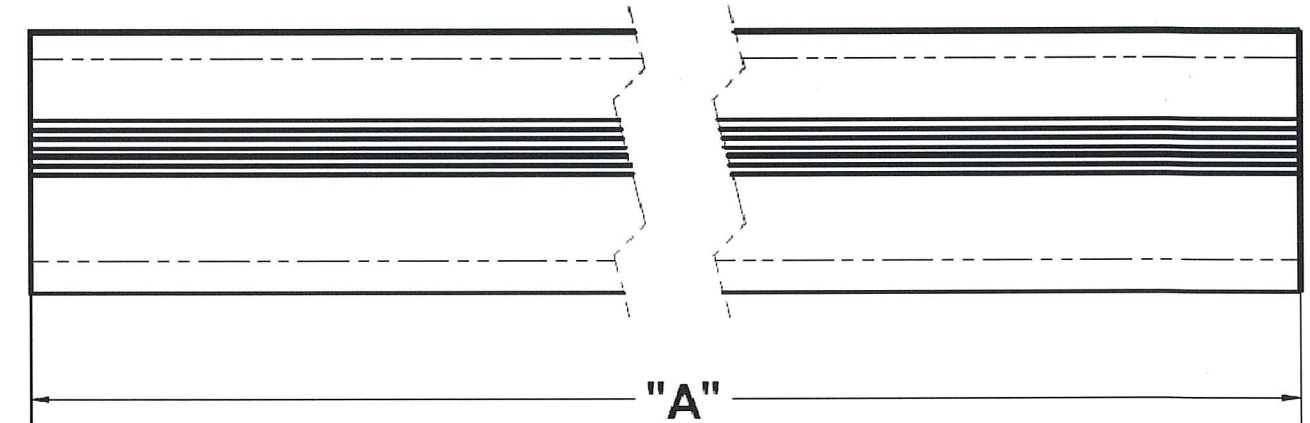
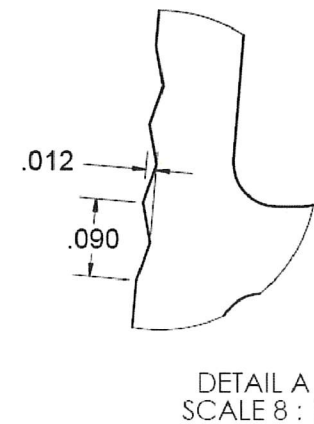
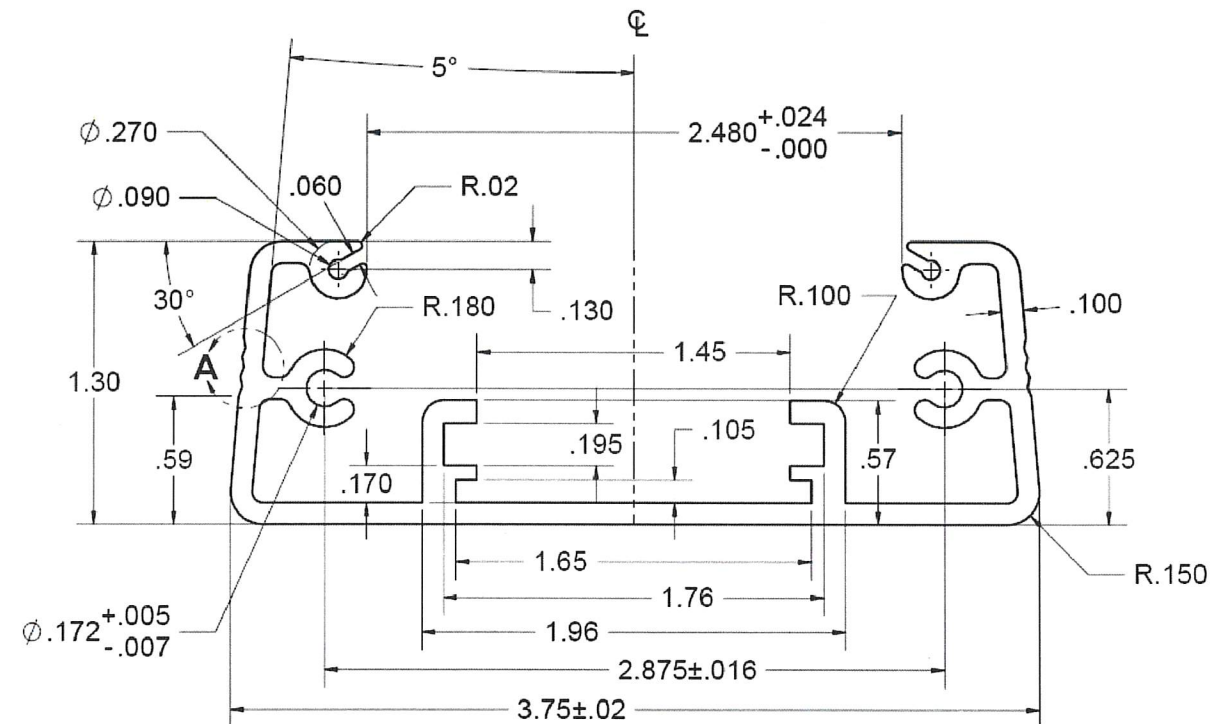


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| DWG NO.           | 1023672-HZ |
| DRAWN BY          | DBN        |
| DATE              | 04/24/23   |
| SHEET DESCRIPTION |            |
| SHEET NO.         | 16 of 20   |

| Revisions |                 |      |          |
|-----------|-----------------|------|----------|
| Rev       | Description     | Date | Approved |
| 1         | Initial Release |      | CBG      |

**RECORD WINDCORD FULL BREAKOUT  
LARGE & SMALL MISSILE IMPACT LEVEL D AND LEVEL E DOOR SYSTEM  
ITEM NO. 137 - ADAMS RITE G86 (8600) EXIT DEVICE EXTRUSION  
DETAILS - INTERIOR EXTRUSION**

EXTRUSION  
PUSH BAR G8X



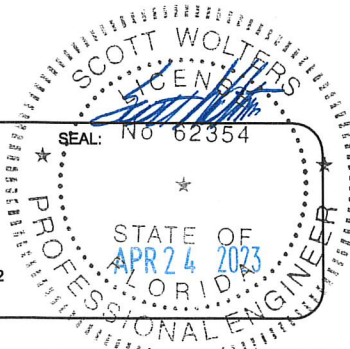
6. POST BAKE: NONE.
5. FINISH: 60 RMS OR BETTER.
4. HEAT TREAT: NONE.
3. MATERIAL: 6063-T6 ALUMINUM. (13'-8" LONG).
2. BREAK ALL SHARP EDGES.
1. ALL DIMENSIONS ARE FINISHED DIMENSIONS.

NOTES: UNLESS OTHERWISE SPECIFIED.

| P/N            | DIM "A" |
|----------------|---------|
| 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**  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FAX:(561) 225-1982



|                   |  |                       |  |
|-------------------|--|-----------------------|--|
| DWG NO.           |  | 1023672-HZ            |  |
| DRAWN BY<br>DBN   |  | DATE<br>04/24/23      |  |
| SHEET DESCRIPTION |  | SHEET NO.<br>17 OF 20 |  |



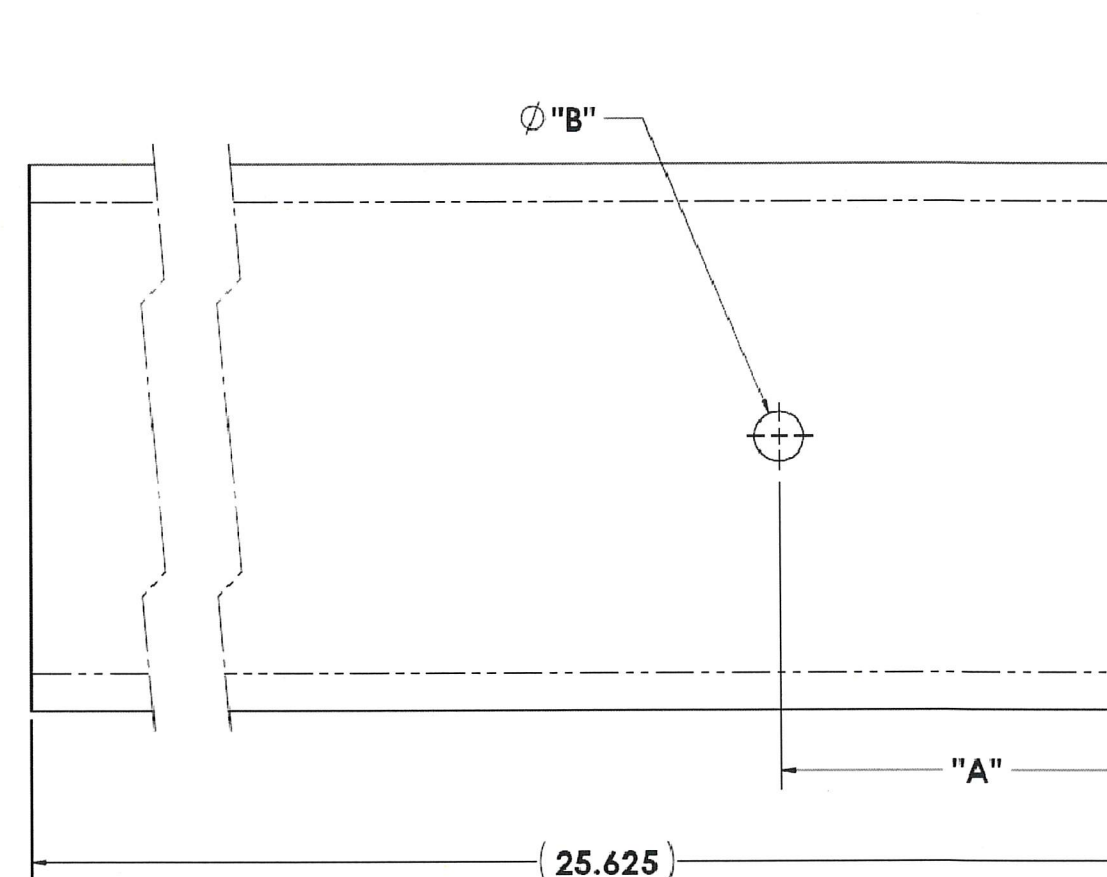
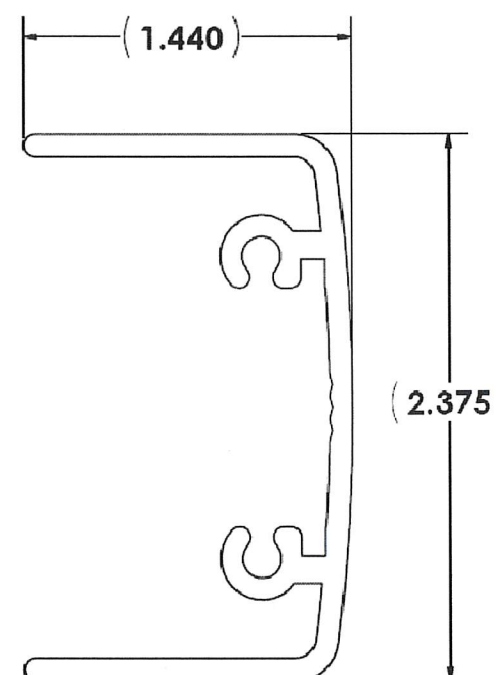
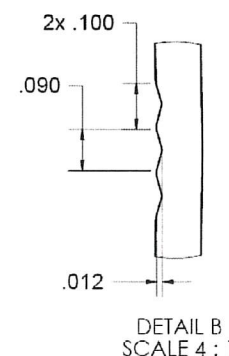
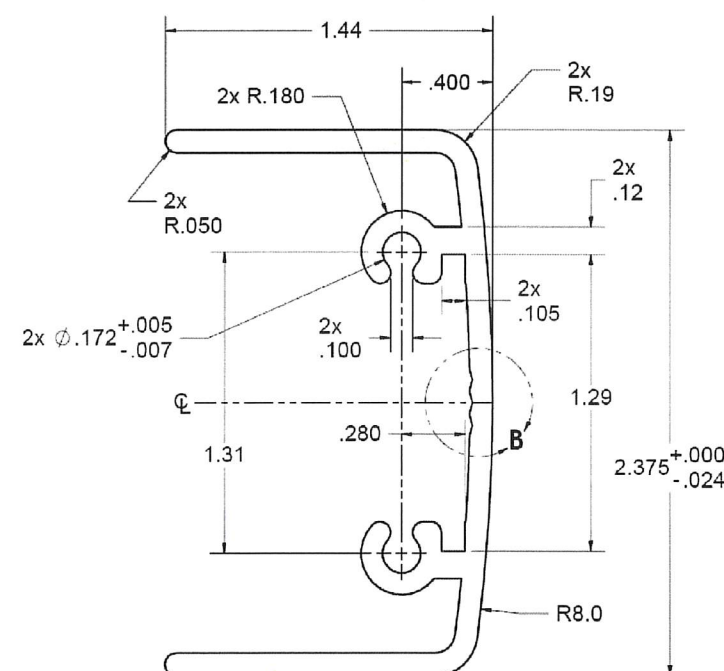
RECORD U.S.A. INC.  
4324 PHIL HARGETT COURT  
P.O. BOX 3099  
MONROE, NC 28111  
PHONE: 1-866-237-2687

RECORD  
WINDCORD 5400/5500 SLIDING DOOR SYSTEM  
BI-PARTING AND SINGLE SLIDING  
FULL BREAKOUT (HVHZ)

| Revisions |                 |      |          |
|-----------|-----------------|------|----------|
| Rev       | Description     | Date | Approved |
| 1         | Initial Release |      | CBG      |

**RECORD WINDCORD FULL BREAKOUT  
LARGE & SMALL MISSILE IMPACT LEVEL D AND LEVEL E DOOR SYSTEM  
ITEM NO. 137 - ADAMS RITE G86 (8600) EXIT DEVICE EXTRUSION  
DETAILS - EXTERIOR EXTRUSION**

EXTRUSION  
PUSH BAR G8X

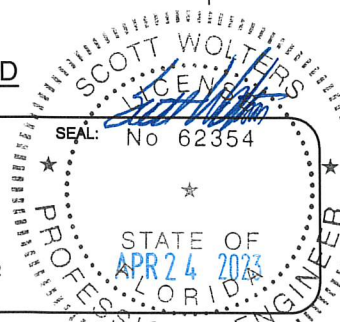


6. POST BAKE: NONE.
  5. FINISH: 60 RMS OR BETTER.
  4. HEAT TREAT: NONE.
  3. MATERIAL: 6063-T6 ALUMINUM. (13'-8" LONG).
  2. BREAK ALL SHARP EDGES.
  1. ALL DIMENSIONS ARE FINISHED DIMENSIONS.
- NOTES: UNLESS OTHERWISE SPECIFIED.

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

INTO WOOD

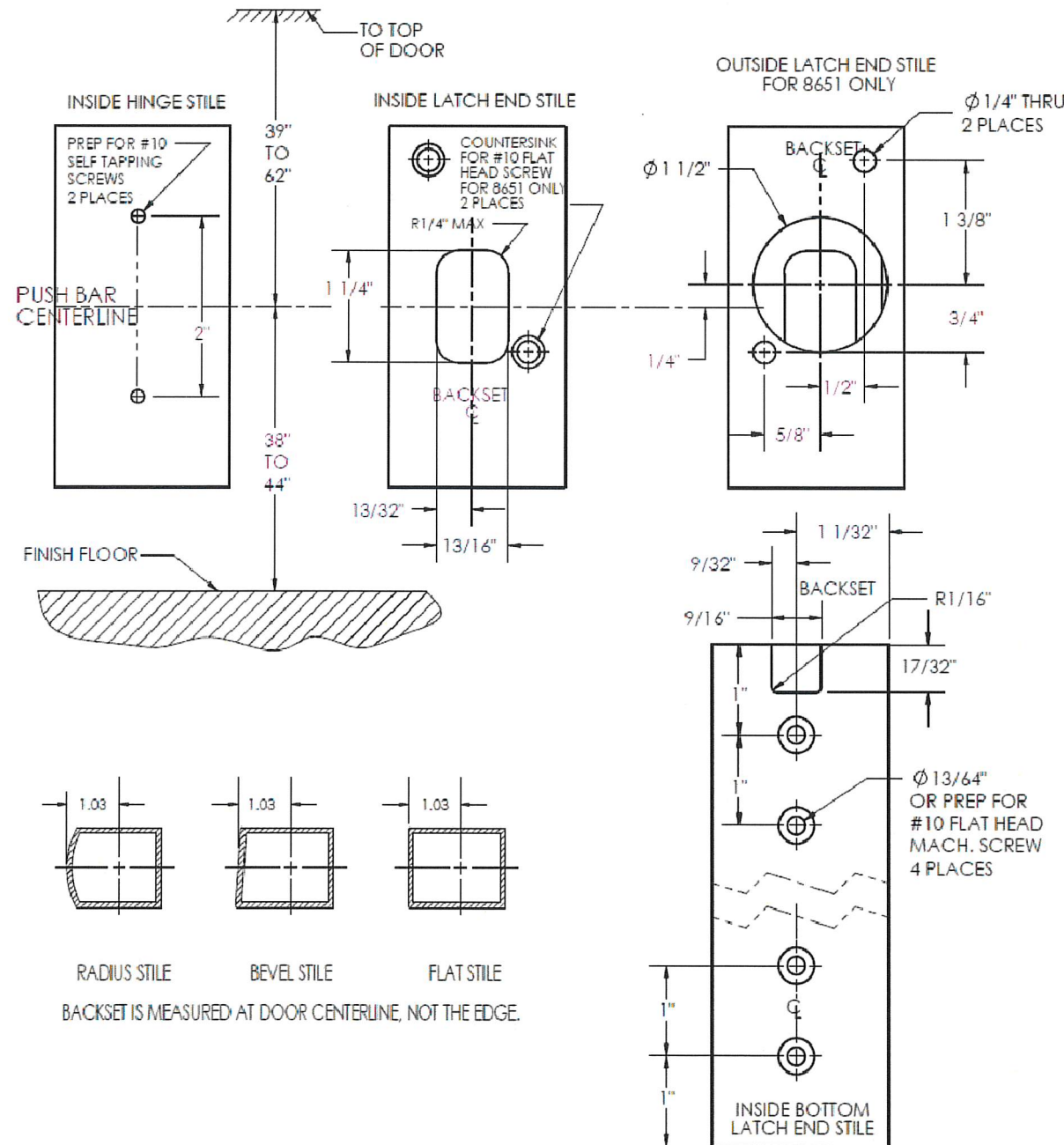
SCOTT WOLTERS  
FL PE# 62354  
  
WOLTERS ENGINEERING  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FAX: (561) 225-1982



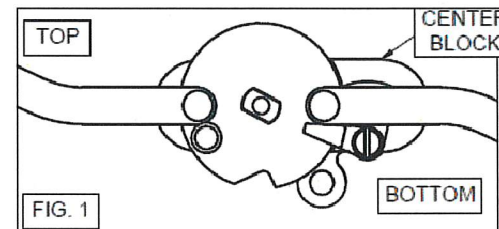
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|--------------------|--------------------|
| DWG NO. 1023672-HZ |                    |
| DRAWN BY DBN       | DATE 04/24/23      |
| SHEET DESCRIPTION  | SHEET NO. 18 OF 20 |

# **RECORD WINDCORD FULL BREAKOUT LARGE & SMALL MISSILE IMPACT LEVEL D AND LEVEL E DOOR SYSTEM ITEM NO. 137 - ADAMS RITE G86 (8600) EXIT DEVICE INSTALLATION DETAIL - SHEET 1**

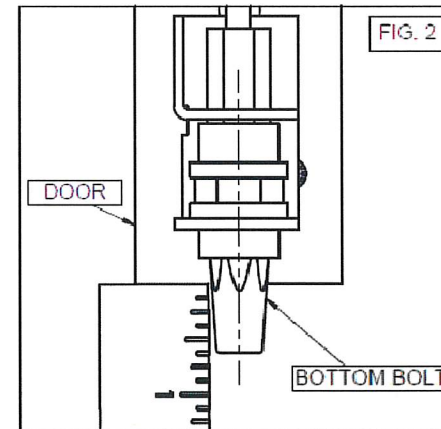
1. Prepare doors as shown. This product must be installed according to all applicable building and life safety codes.



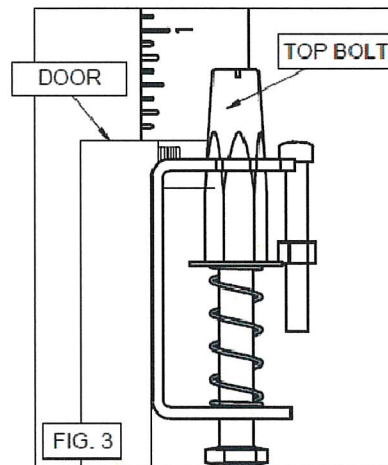
2. Pre-adjust rod assembly.  
a. Lay rod assembly on the face of the door with center block protruding into installation hole.  
b. Fully extend rods as shown.



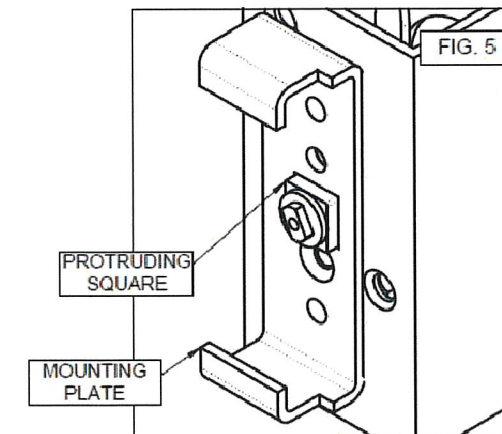
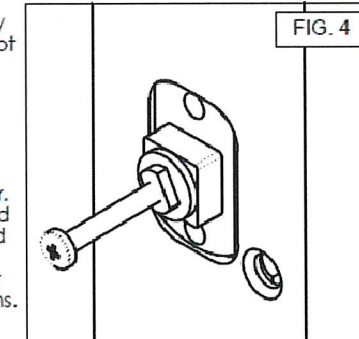
c. Adjust bottom bolt for 5/8\" projection from bottom of door.



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

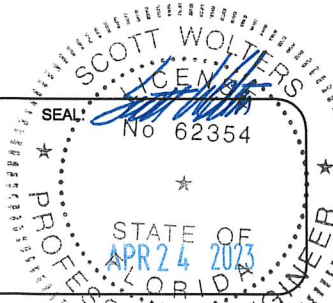


3. Install rod assembly  
Note: Be careful not to bend the rods when handling.  
a. Turn over and insert rod assembly into door from the top of the door.  
b. The bolts should extend beyond the stile.
4. Cutting the bar for custom door widths.  
a. The push bar is the correct length for a minimum door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



SCOTT WOLTERS  
FL PE# 62354

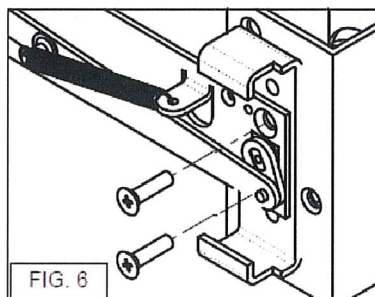
WOLTERS ENGINEERING  
(COA# 27194)  
15211 97TH ROAD N  
WEST PALM BEACH, FL 33412  
PH/FAX:(561) 225-1982



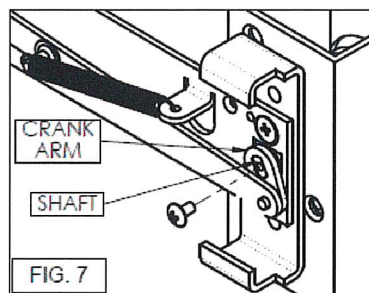
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|-------------------|-------------------------------------|
| DWG NO.           | 1023672-HZ                          |
| DRAWN BY          | DBN                                 |
| SHEET DESCRIPTION | DATE 04/24/23<br>SHEET NO. 19 OF 20 |

# **RECORD WINDCORD FULL BREAKOUT LARGE & SMALL MISSILE IMPACT LEVEL D AND LEVEL E DOOR SYSTEM ITEM NO. 137 - ADAMS RITE G86 (8600) EXIT DEVICE INSTALLATION DETAIL - SHEET 2**

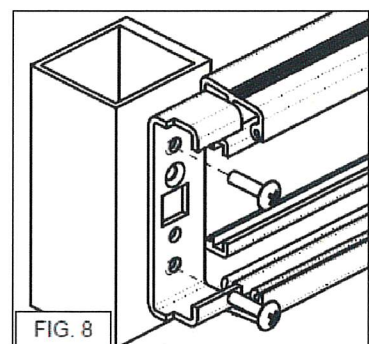
- f. Place scissor cartridge on center block and secure with two 10-32 x 3/4" flat head machine screws.



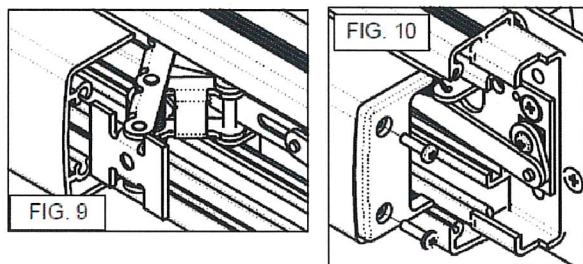
7. Secure crank arm  
a. Remove helper screw.  
b. Align crank arm with shaft. You may have to operate the push bar scissors to align tab with slot.  
c. Secure with one 6-32 x 1/4" truss head machine screw.



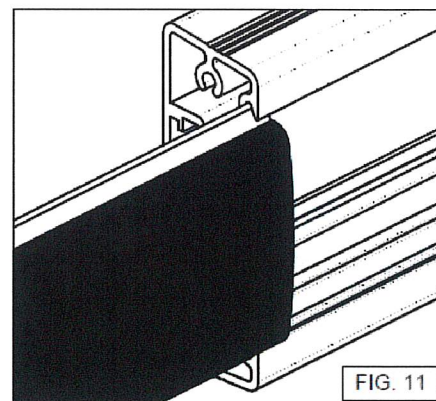
8. Insert mounting plate from the hinge side onto the back bar and secure with two 10-32 x 3/4" self-tapping screws on the triangle side stile.



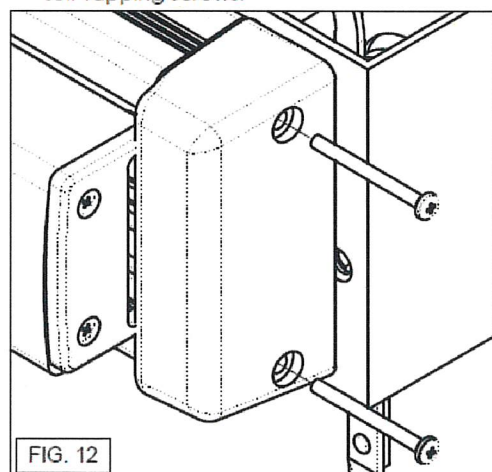
9. Insert push bar and secure end caps with four 10-32 x 1/2" self-tapping screws.



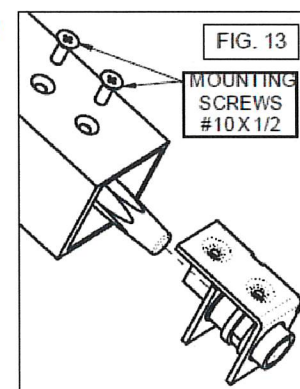
10. Insert cover strip into back bar. Push in until flush with back bar extrusion.



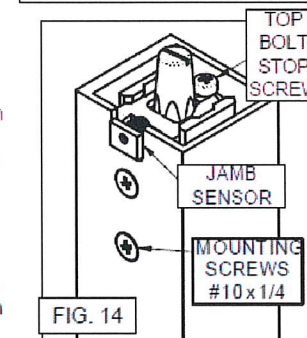
11. Install base caps and secure with four 10-32 x 2" self-tapping screws.



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.

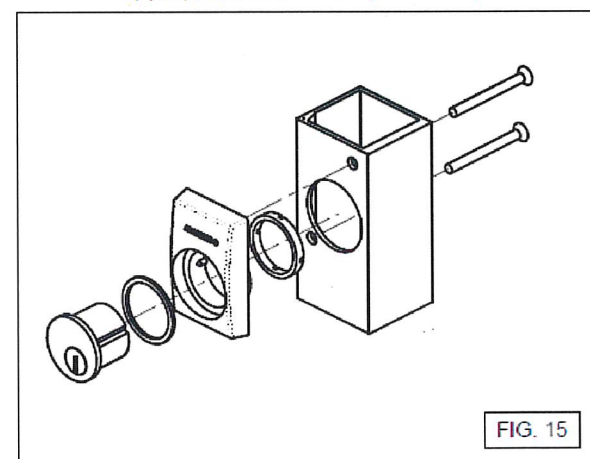


14. Check operation:  
a. Fully depress the push bar and release.  
b. Top bolt will retract & latch.  
c. If it doesn't hold - adjust top bolt stop screw out until top bolt is retained.  
d. When the push bar is completely pushed in and then released, you should see about 1/16" movement of the top bolt.

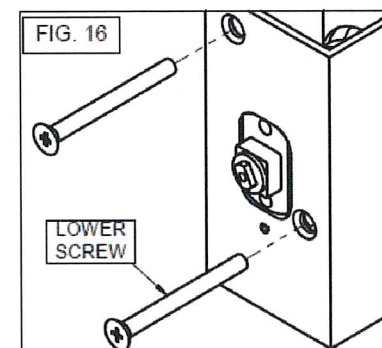
15. Check operation: push top jam sensor.  
a. Top bolt will project.  
b. If it doesn't - check rods for binding.  
16. Now install the door into the frame.  
17. Mark the locations for the bolt holes very carefully.  
a. Misalignment of these holes will prevent the bolts from fully traveling into the 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

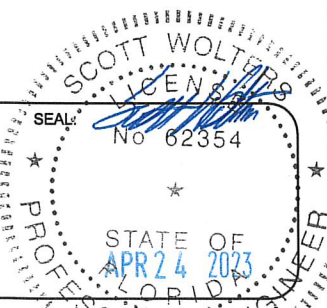


- the cylinder cam from bottoming out on the center block assembly.  
b. Secure the cylinder escutcheon assembly to the stile with the 2" long flat head screws provided. Note: the lower screw nests into a boss in the center block. (Fig. 16)  
c. Once the installation is complete, check operation by turning 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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| DWG NO.           | 1023672-HZ |
| DRAWN BY          | DBN        |
| DATE              | 04/24/23   |
| SHEET DESCRIPTION |            |
| SHEET NO.         | 20 of 20   |