



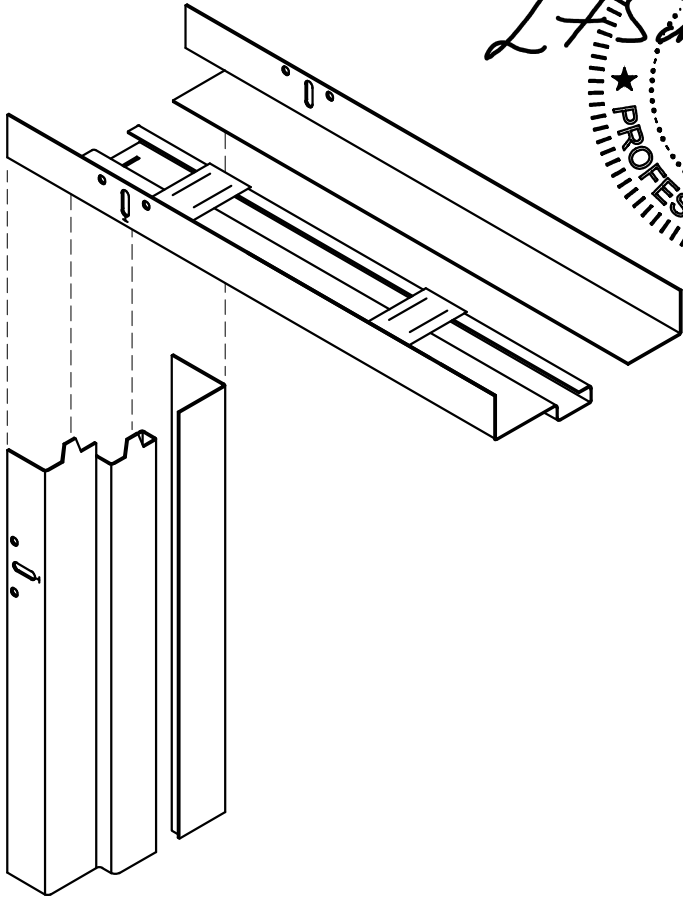
868 MURRAY ROAD, DOTHAN, AL 36303

"REDIFLEX"  
TWO-PIECE STEEL FRAME SYSTEM  
UTILIZING A  
MASONITE OPAQUE STEEL DOOR PANEL  
"IMPACT"

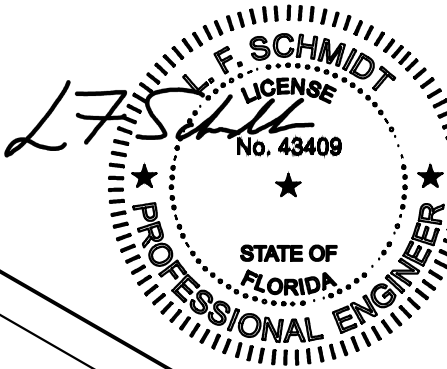
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the "HVHZ" this product complies with Section 1626 of the FBC and does not require an impact resistant covering.
4. When used in areas outside of the "HVHZ" requiring wind borne debris protection this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
5. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7. Outswing configurations using item #71 and #72 meet water infiltration requirements for "HVHZ".
8. Configurations using item #70 do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.
9. When used in the "HVHZ", all steel shall be protected as specified in Section 2222.6 of the FBC.

| TABLE OF CONTENTS |                                                     |
|-------------------|-----------------------------------------------------|
| SHEET #           | DESCRIPTION                                         |
| 1                 | Typical elevation, design pressures & general notes |
| 2                 | Steel frame cross sections & details                |
| 3                 | Door panel details                                  |
| 4                 | Horizontal & vertical cross sections                |
| 5                 | Horizontal & vertical cross sections                |
| 6                 | Buck and frame anchoring                            |
| 7                 | Bill of materials and components                    |



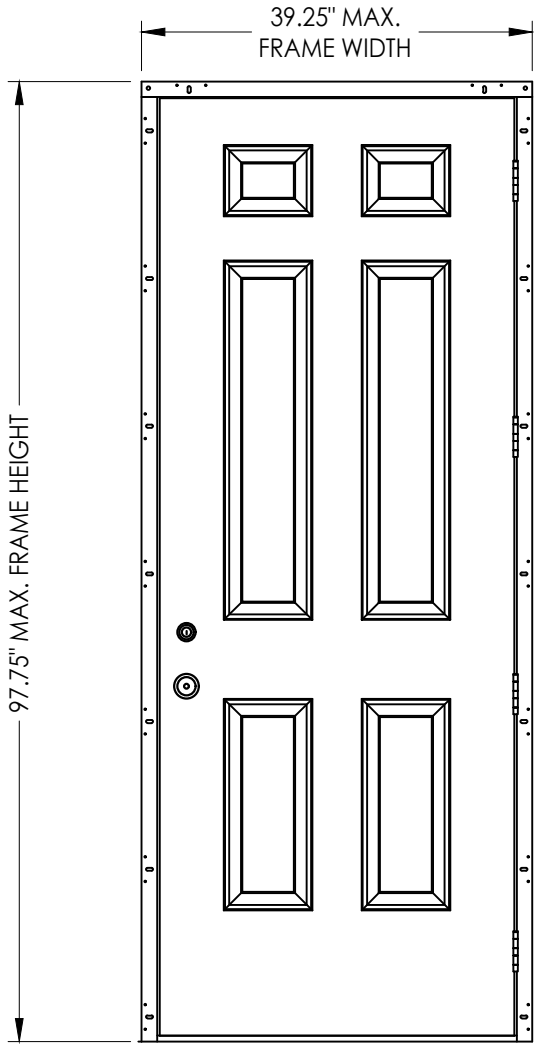
REDIFLEX TWO-PIECE



Digitally signed by Lyndon F Schmidt  
Date: 2026.07.01 12:38:31 -04'00'

This item has been digitally signed and sealed by  
L. F. Schmidt, P.E. on the date adjacent to the seal.  
Printed copies of this document are not  
considered signed and sealed and the signature  
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID  
ONLY FOR THE STATE OF FLORIDA



OUTSWING

| OVERALL<br>FRAME<br>DIMENSION | THRESHOLD<br>TYPE | DESIGN PRESSURE (PSF)<br>NON-HVHZ |          | DESIGN PRESSURE (PSF)<br>HVHZ |          |
|-------------------------------|-------------------|-----------------------------------|----------|-------------------------------|----------|
|                               |                   | POSITIVE                          | NEGATIVE | POSITIVE                      | NEGATIVE |
| 39.25" X 97.75"               | ADA               | + 55.0                            | - 55.0   | + 55.0*                       | - 55.0*  |
| 39.25" X 97.75"               | STANDARD BUMP     | + 55.0                            | - 55.0   | + 50.0                        | - 50.0   |
| 39.25" X 97.75"               | HIGH DAM          | + 55.0                            | - 55.0   | + 55.0                        | - 55.0   |

\*See General Note #8

Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

PRODUCT:  
DUNBARTON REDIFLEX  
TWO-PIECE STEEL FRAME

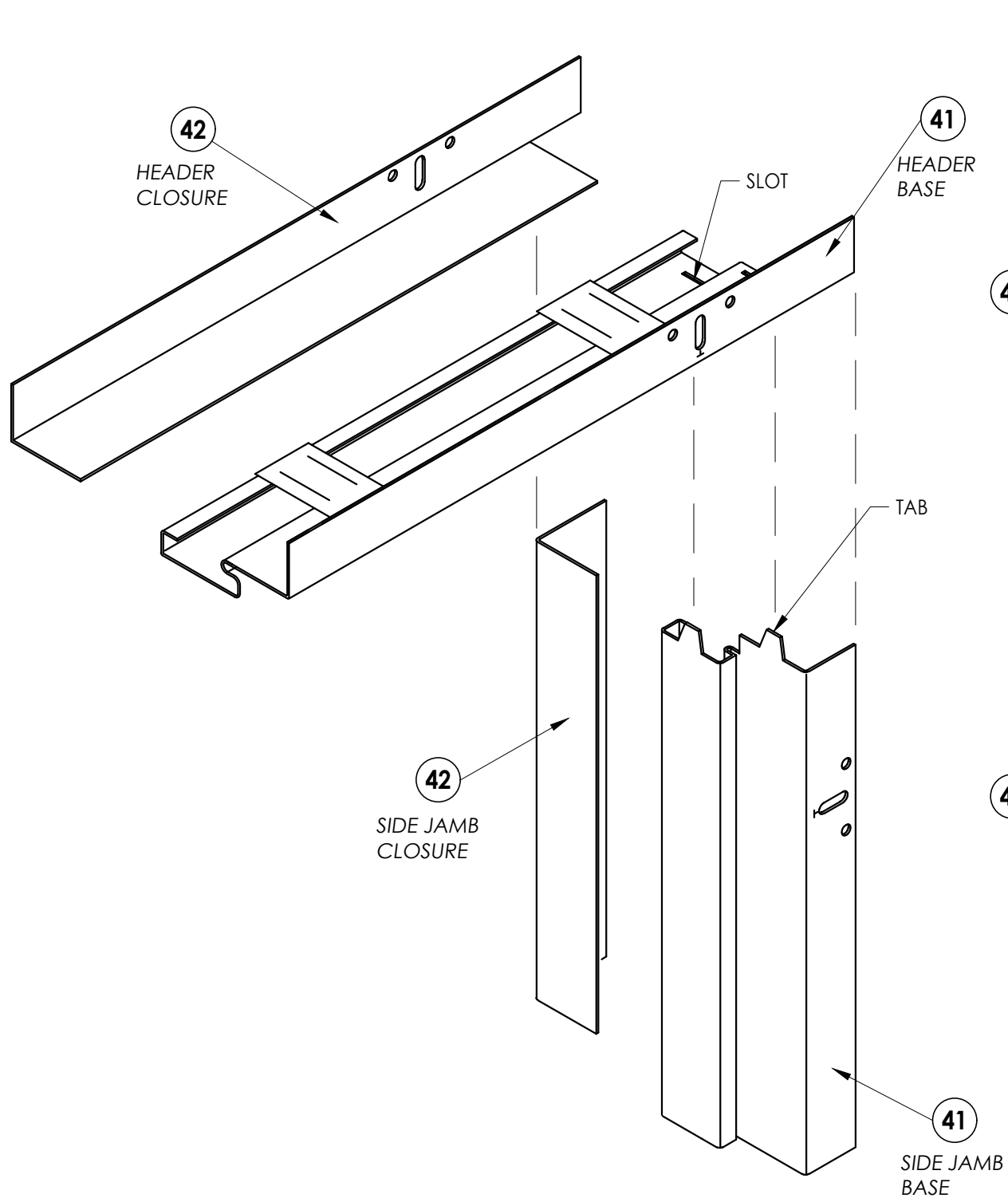
RW BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

PART OR ASSEMBLY:  
TYPICAL ELEVATIONS, DESIGN  
PRESSURES & GENERAL NOTES

| NO. | DATE    | REVISIONS         |        |     |     |    |
|-----|---------|-------------------|--------|-----|-----|----|
|     |         | LFS               | FBC    | LFS | DAC | JK |
| 5   | 7/01/26 | UPDATE TO 9TH ED. | (2026) | FBC |     |    |
| 4   | 7/06/23 | UPDATE TO 8TH ED. | (2023) | FBC |     |    |
| 3   | 8/11/20 | UPDATE TO 7TH ED. | (2020) | FBC |     |    |
| 2   | 9/30/17 | UPDATE TO 6TH ED. | (2017) | FBC |     |    |
| 1   | 3/23/15 | UPDATE TO 5TH ED. | (2014) | FBC |     |    |

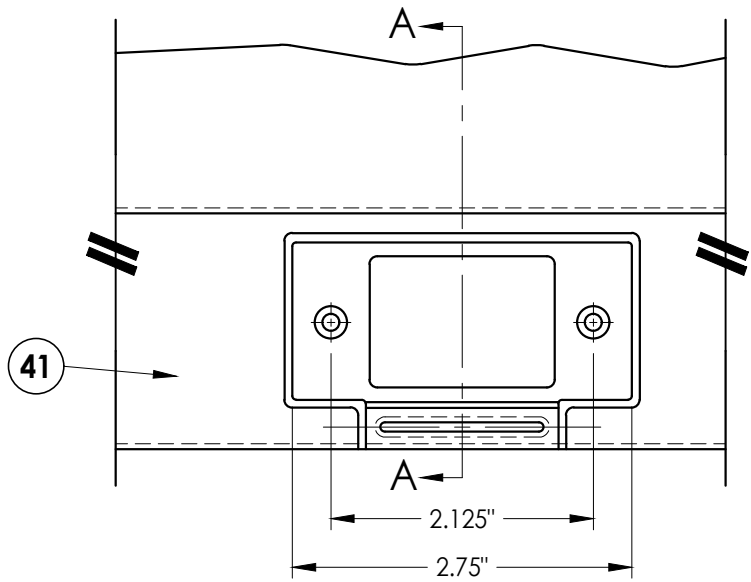
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SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.:  
FL-15341.5  
SHEET 1 OF 7

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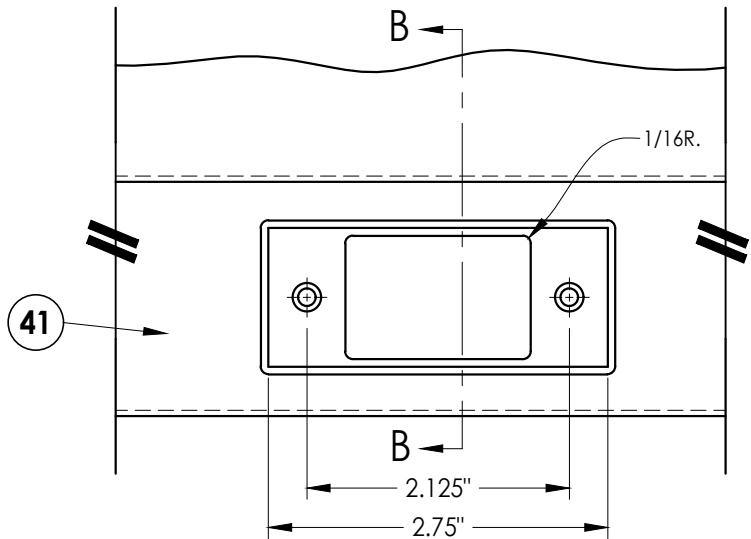


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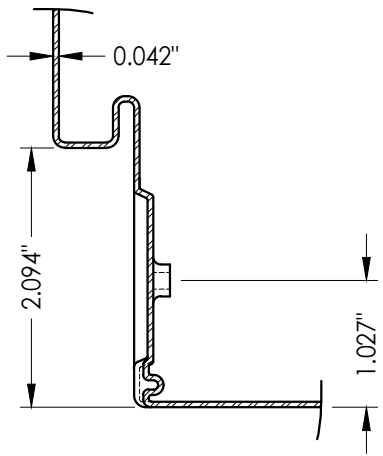
1. HEADER AND SIDE BASE JAMB (41) MINIMUM 18 GA. GALV. STEEL.
2. HEADER AND SIDE CLOSURE JAMB (42) MINIMUM 22 GA. GALV. STEEL.
3. FRAME SHOWN WITHOUT OPTIONAL STEEL TRIM CASING.
4. NON-KERF FRAMES DO NOT MEET AIR AND WATER CRITERIA.



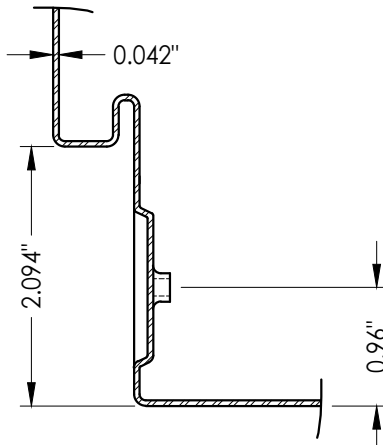
STRIKE AT LATCH



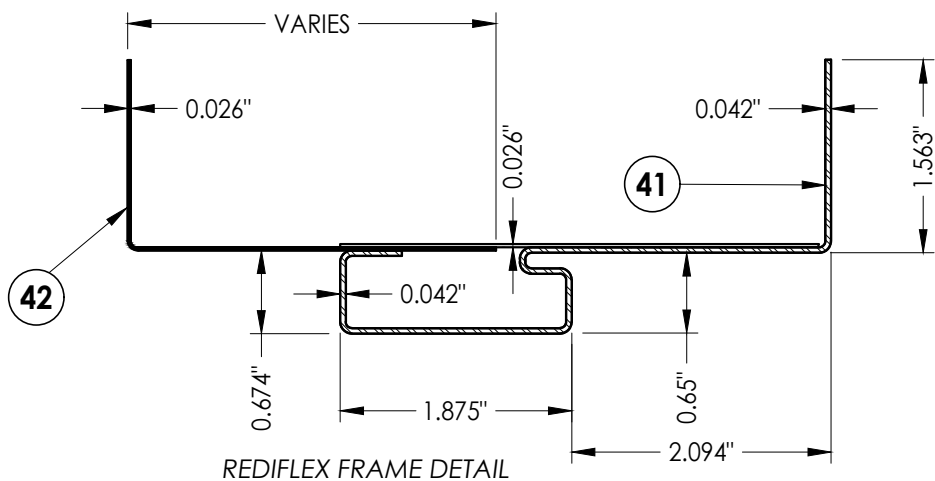
STRIKE AT DEADBOLT



SECTION A-A



SECTION B-B



REDIFLEX FRAME DETAIL

Documents Prepared By:  
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P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

PRODUCT:  
DUNBARTON REDIFLEX  
TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:  
STEEL FRAME CROSS SECTIONS  
& DETAILS

| NO. | DATE    | REVISIONS                        |
|-----|---------|----------------------------------|
| 5   | 7/01/26 | UPDATE TO 9TH ED. (2026) FBC LFS |
| 4   | 7/06/23 | UPDATE TO 8TH ED. (2023) FBC LFS |
| 3   | 8/11/20 | UPDATE TO 7TH ED. (2020) FBC DAC |
| 2   | 9/30/17 | UPDATE TO 6TH ED. (2017) FBC LFS |
| 1   | 3/23/15 | UPDATE TO 5TH ED. (2014) FBC JK  |

DATE: 5/28/13

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CHK. BY: LFS

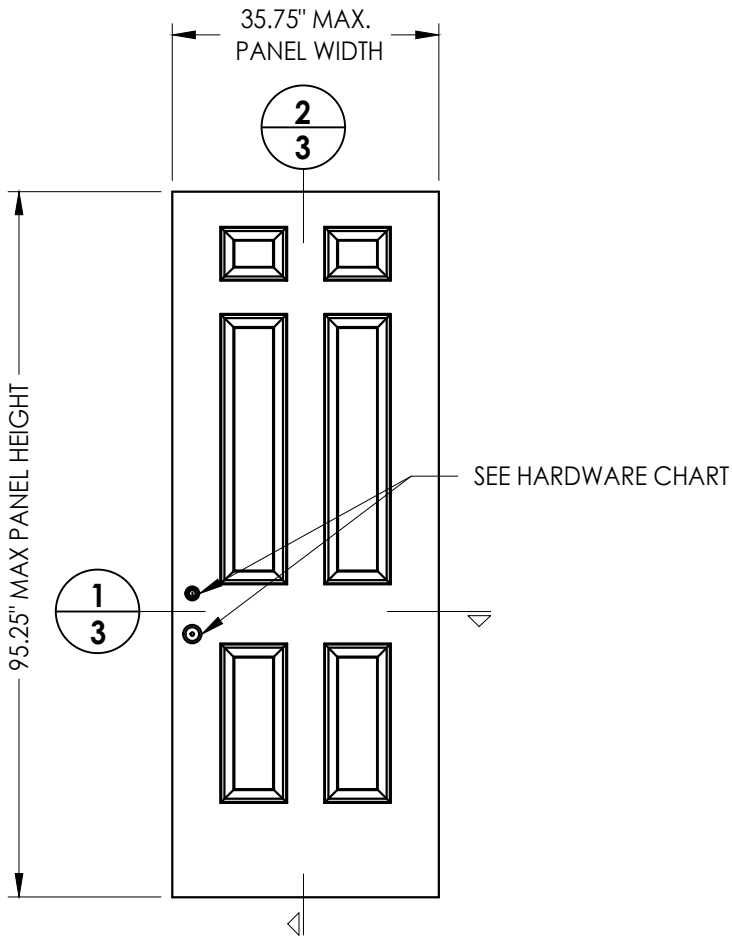
DRAWING NO.:

FL-15341.5

SHEET 2 OF 7

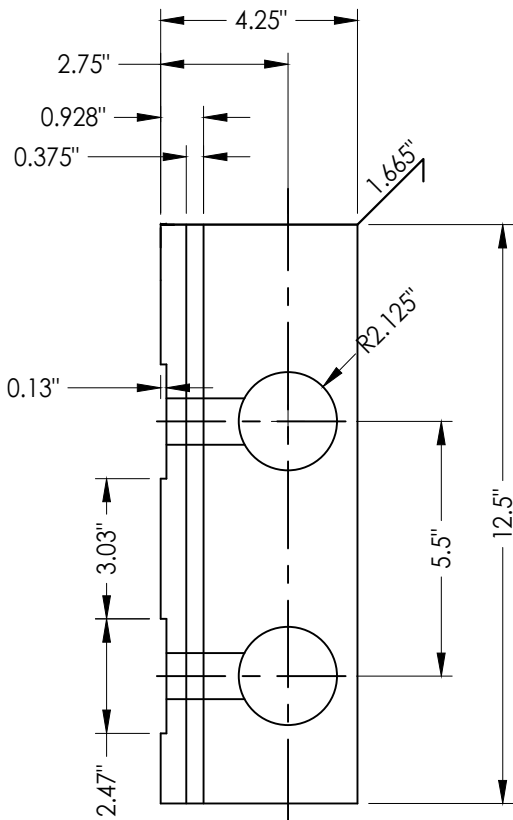
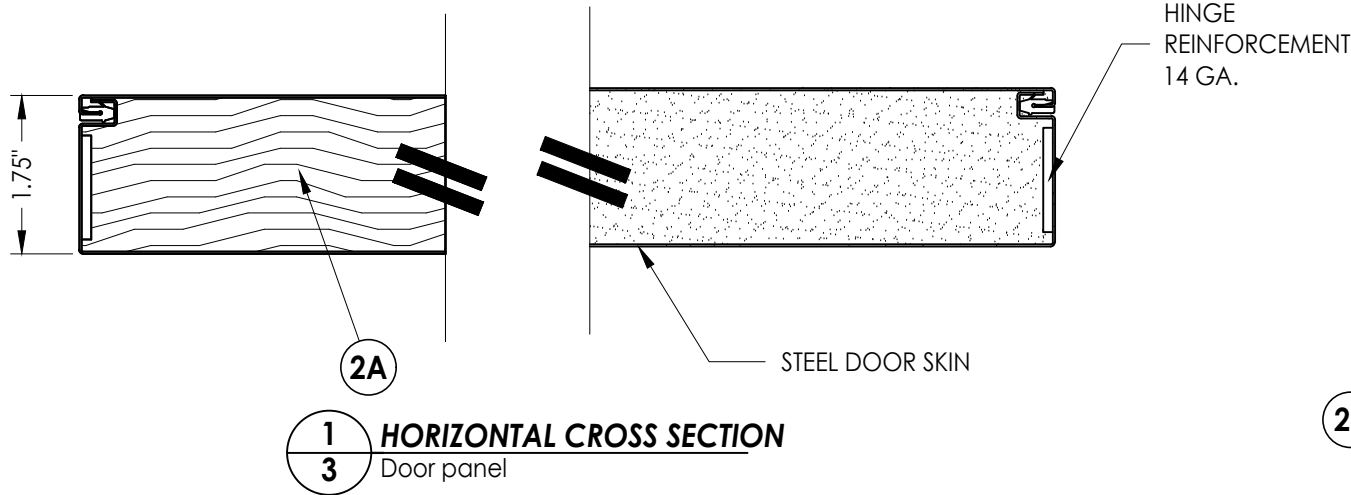
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| HARDWARE CHART |           |                      |
|----------------|-----------|----------------------|
| MANUFACTURER   | MODEL     |                      |
| KWIKSET        | LEVER:    | 200DL                |
|                | DEADBOLT: | Signature Series 980 |
| SCHLAGE        | LOCK:     | F51                  |
|                | DEADBOLT: | B60N                 |

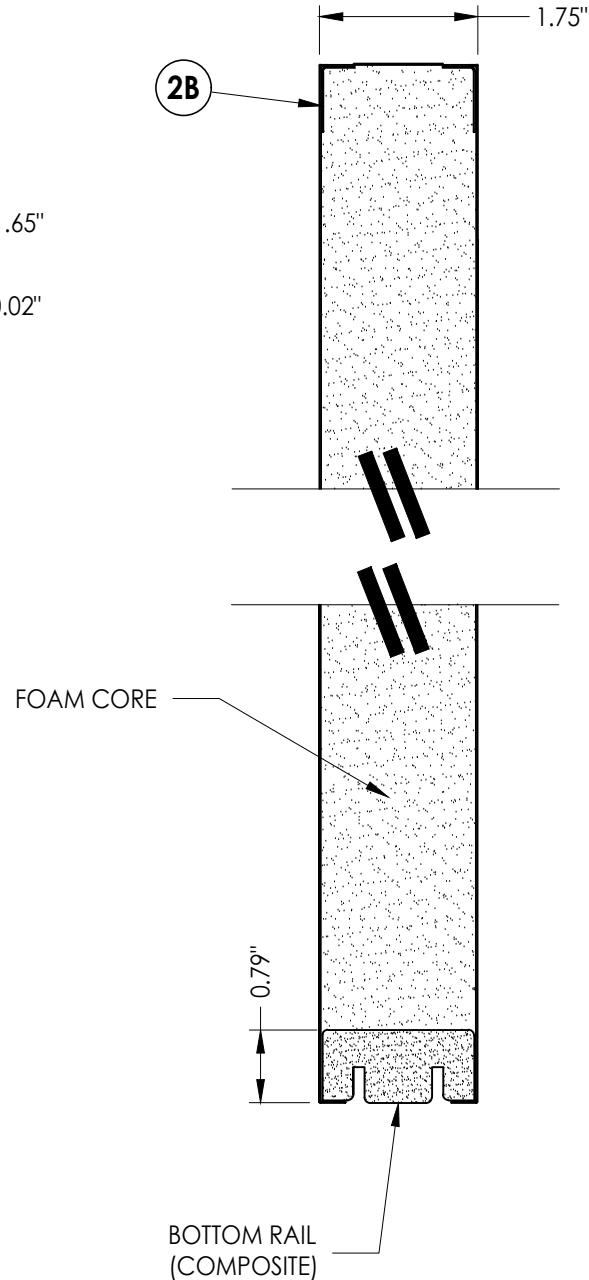
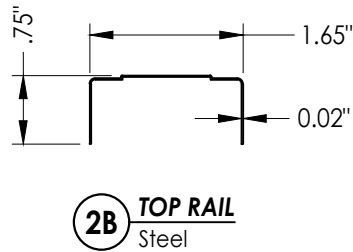


50 DOOR PANEL  
Masonite

STEEL SKIN: 0.020" MIN. THICK (Fy = 33,000 PSI MIN.)  
FOAM CORE: POLYURETHANE (2.0 PCF DENSITY, BASF)



2A LOCK BLOCK  
Wood



Documents Prepared By:  
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FBPE Registry No. 9813

PRODUCT:  
DUNBARTON REDIFLEX  
TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:  
DOOR PANEL DETAILS

| NO. | DATE    | REVISIONS                        |
|-----|---------|----------------------------------|
| 5   | 7/01/26 | UPDATE TO 9TH ED. (2026) FBC LFS |
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DATE: 5/28/13

SCALE: N.T.S.

DWG. BY: JK

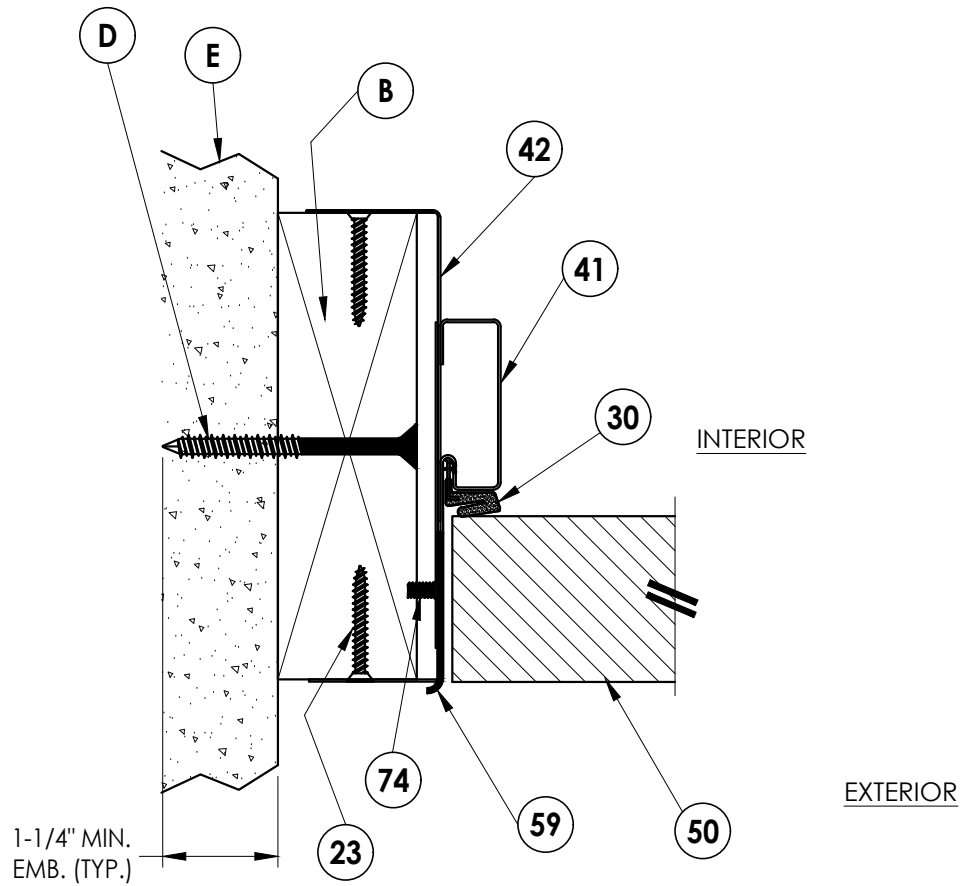
CHK. BY: LFS

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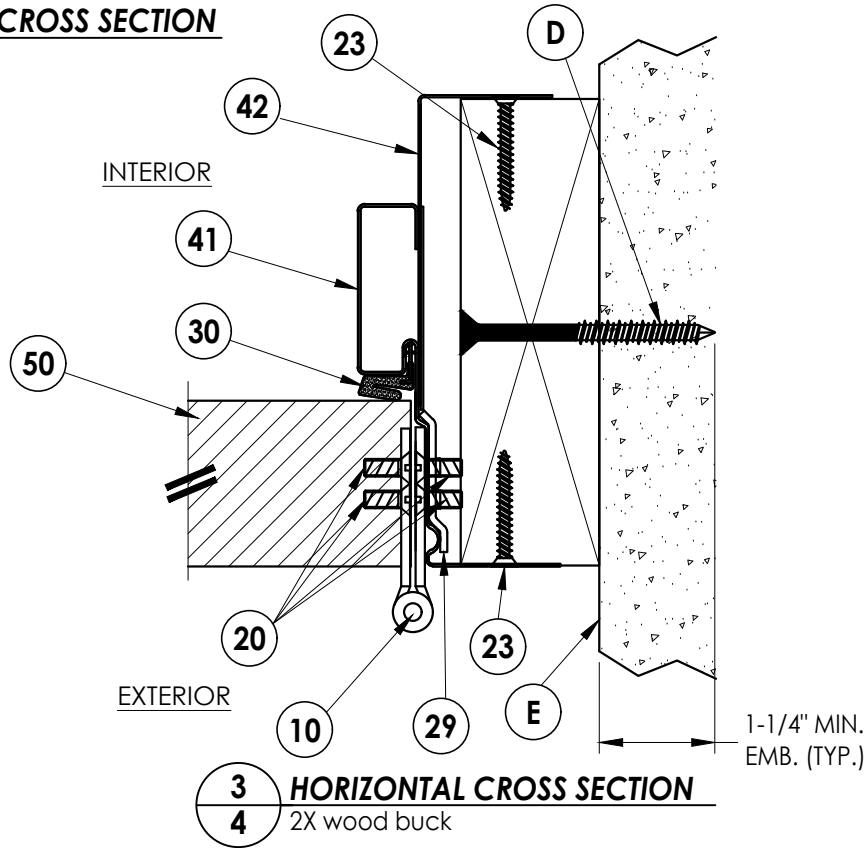
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SHEET 3 OF 7

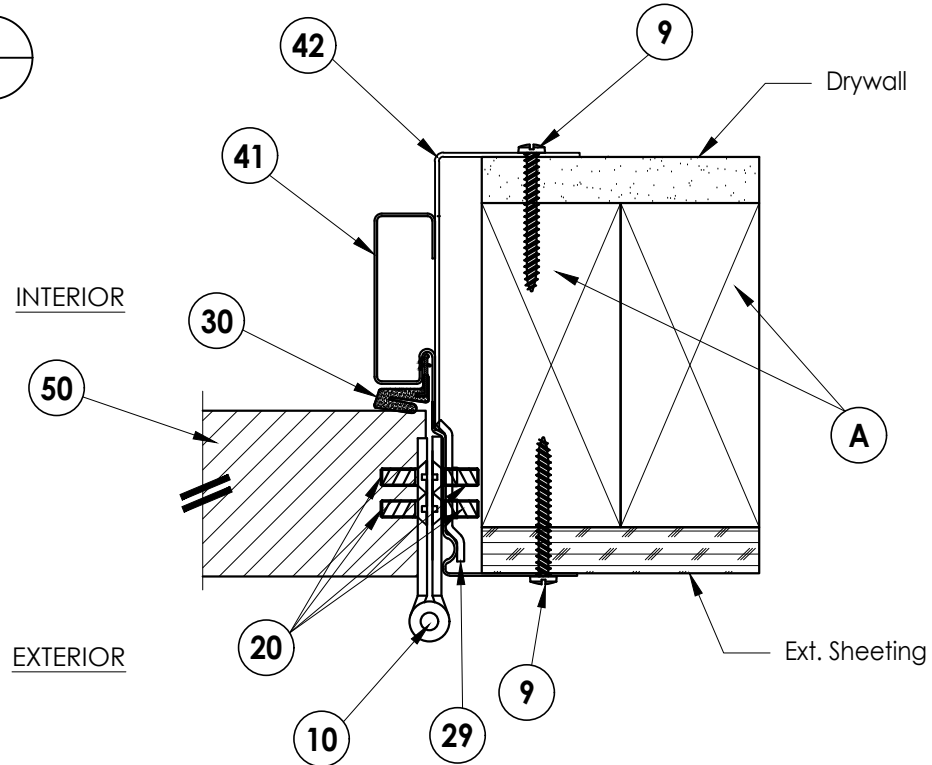
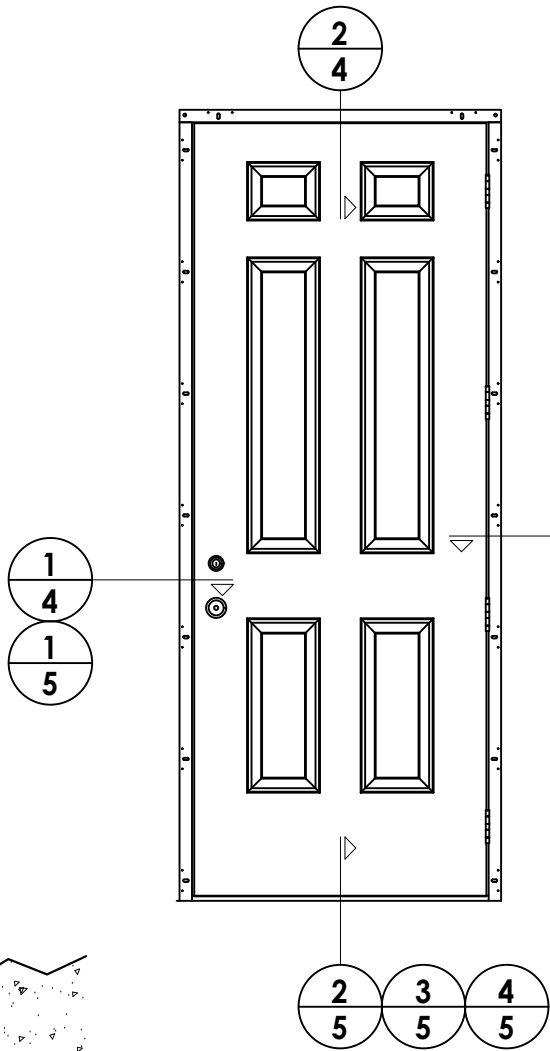
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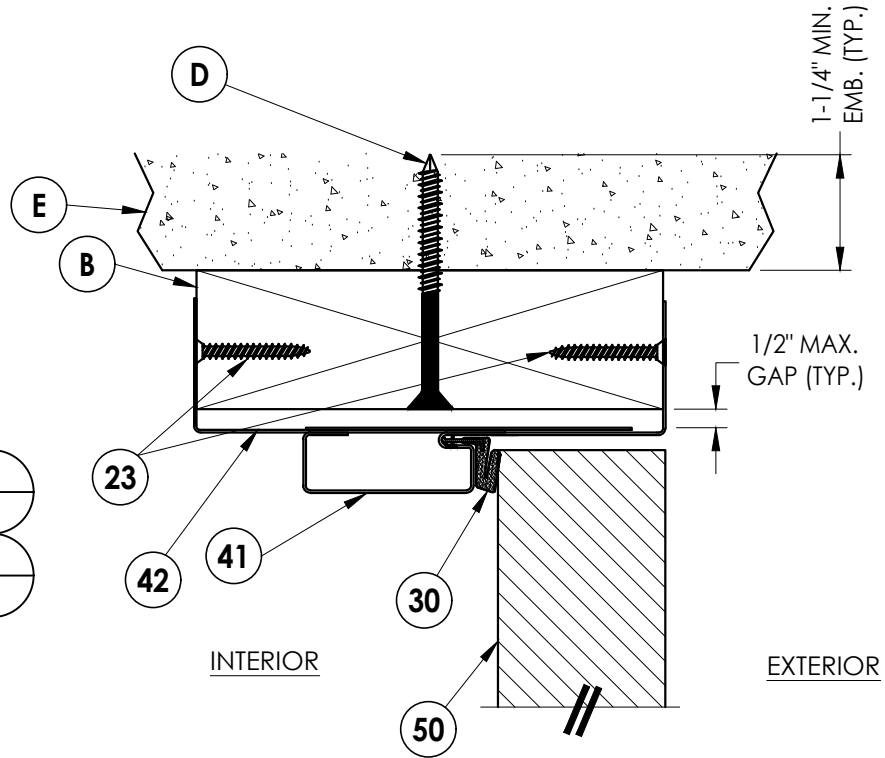
1  
4 HORIZONTAL CROSS SECTION  
2X wood buck



3  
4 HORIZONTAL CROSS SECTION  
2X wood buck



4  
4 HORIZONTAL CROSS SECTION  
Optional 2X Stud Construction



2  
4 VERTICAL CROSS SECTION  
2X wood buck

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PRODUCT:  
DUNBARTON REDIFLEX  
TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:  
HORIZONTAL & VERTICAL  
CROSS SECTIONS

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SCALE: N.T.S.

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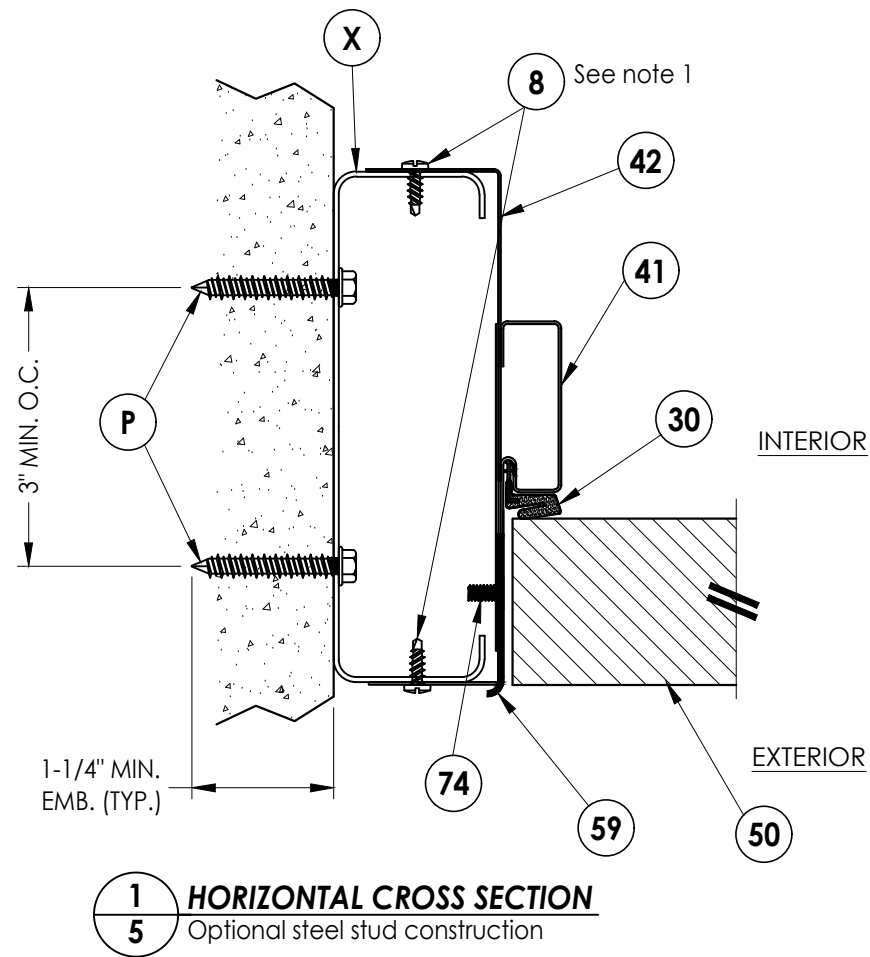
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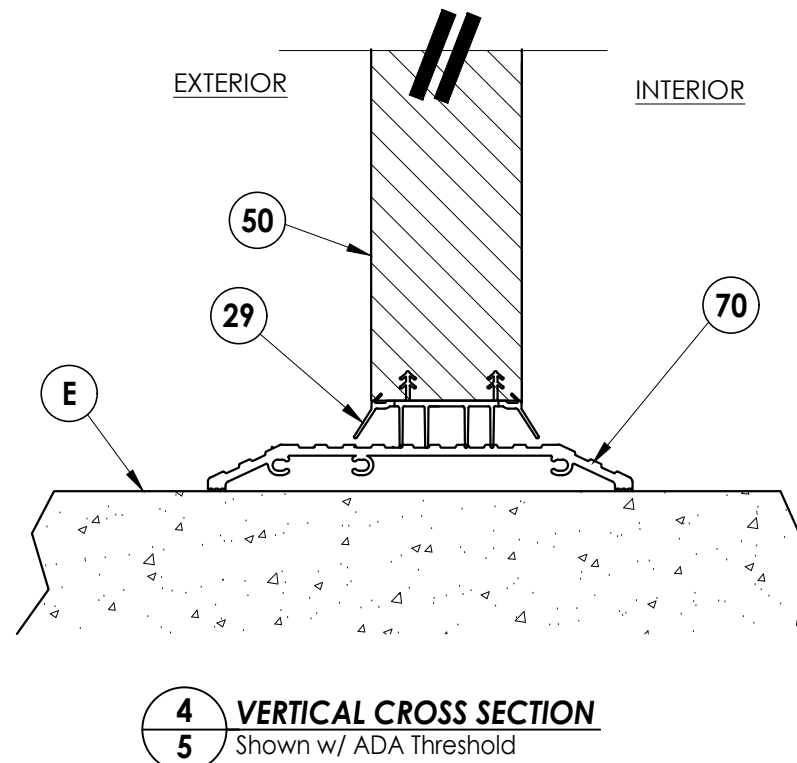
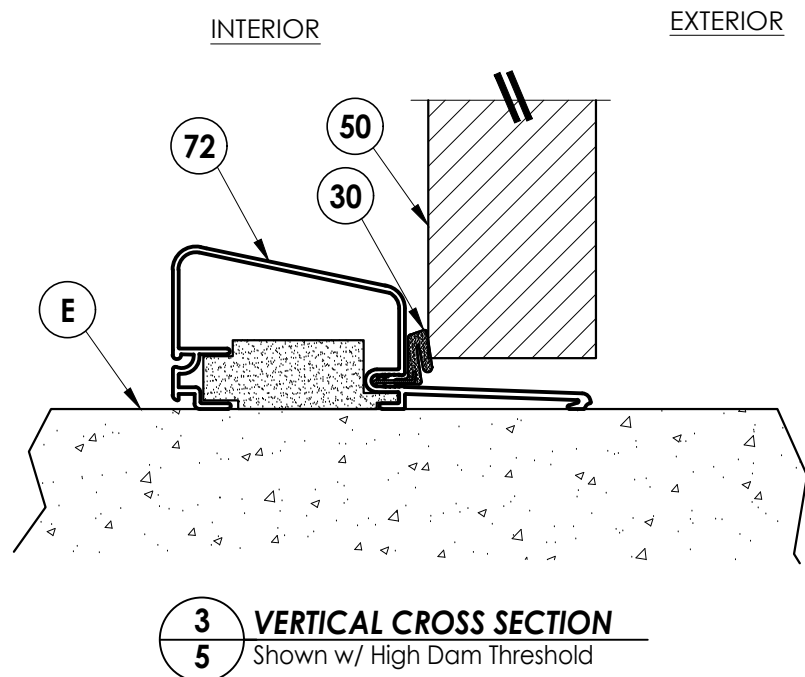
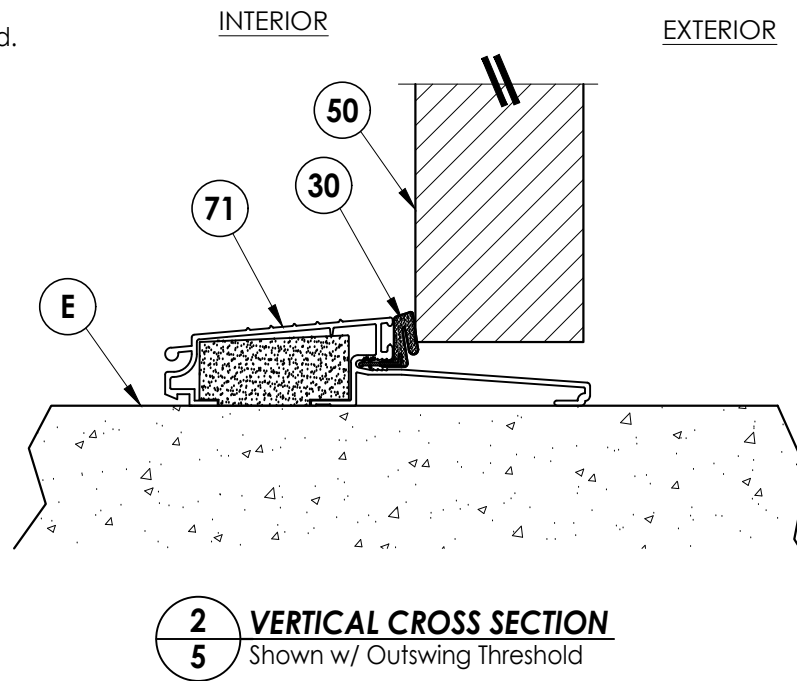
FL-15341.5

SHEET 4 OF 7

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Note:  
1. A minimum of three threads must protrude completely through the supporting steel stud.



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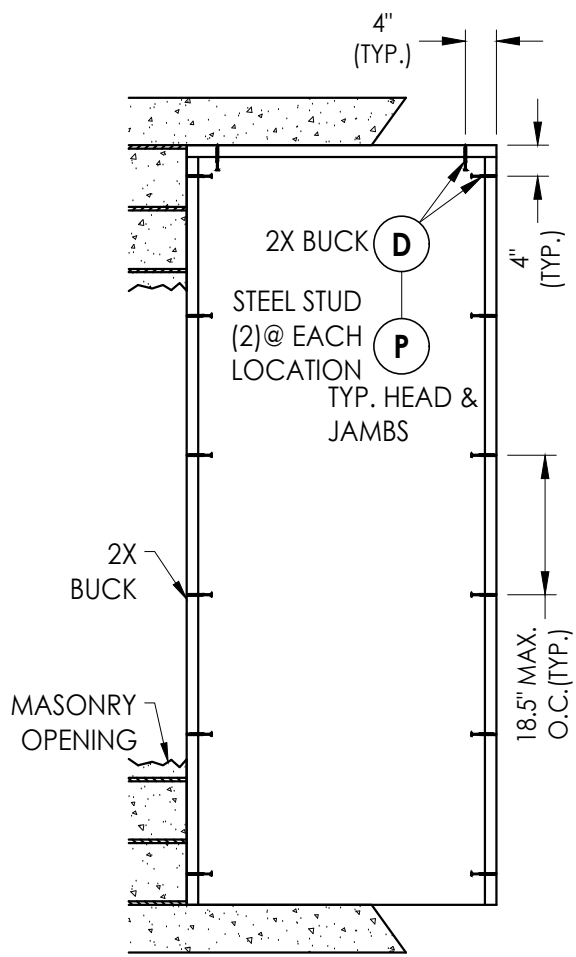
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DUNBARTON REDIFLEX  
TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:  
HORIZONTAL & VERTICAL  
CROSS SECTIONS

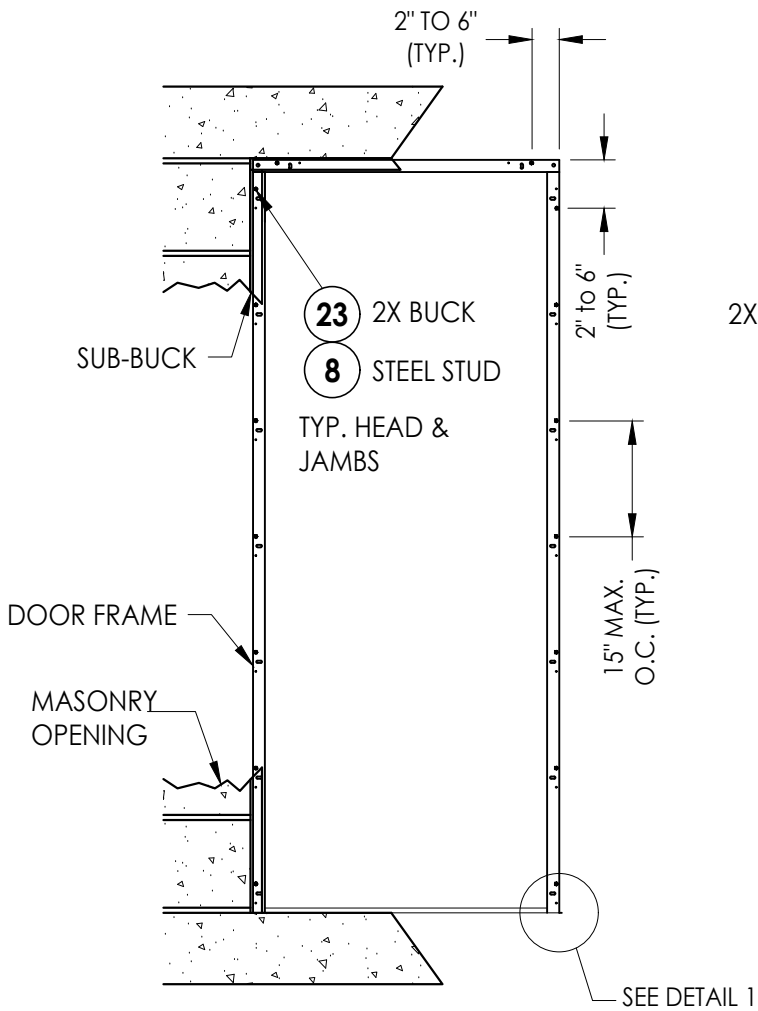
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|     |         | DATE              | BY  | CHK. | APP. | DATE | BY |
| 5   | 7/01/26 | UPDATE TO 9TH ED. | FBC | LFS  |      |      |    |
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| 1   | 3/23/15 | UPDATE TO 5TH ED. | FBC | JK   |      |      |    |

DATE: 5/28/13  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.:  
FL-15341.5  
SHEET 5 OF 7

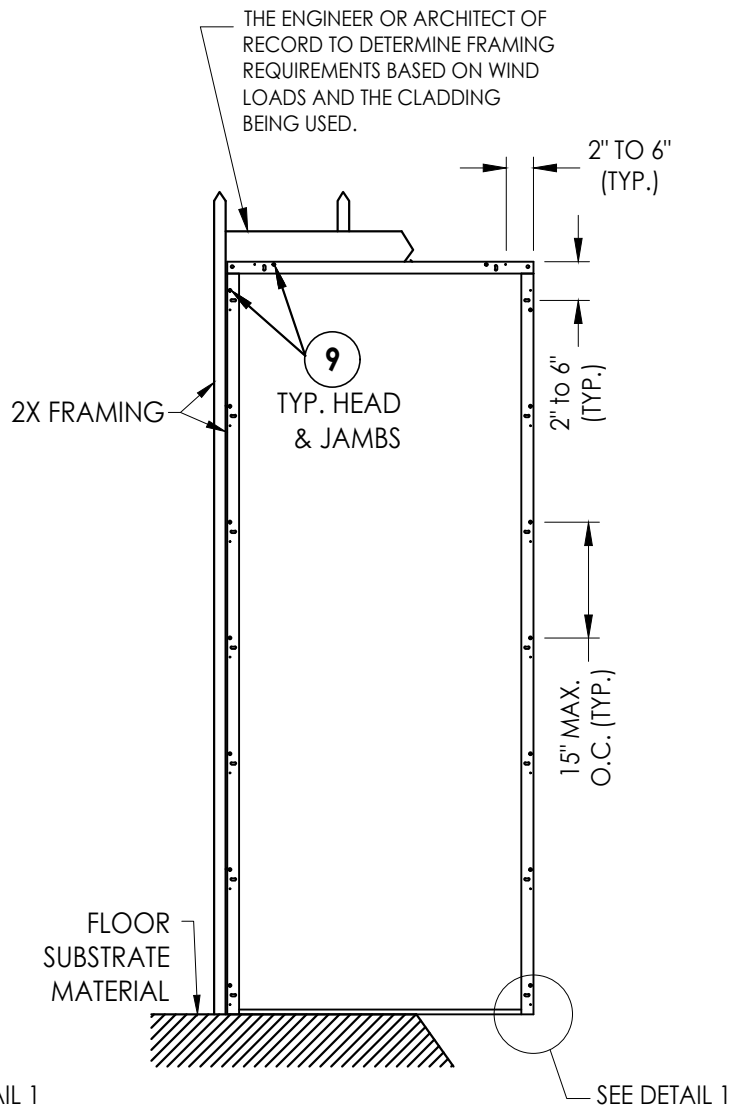
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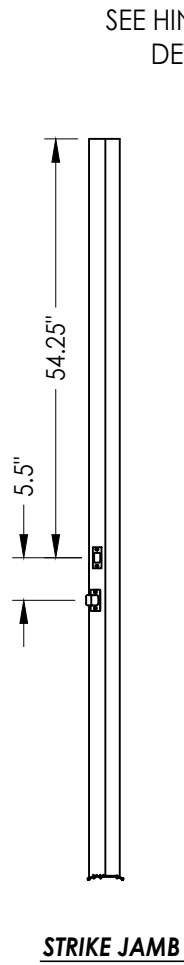
**BUCK ANCHORING**  
Masonry



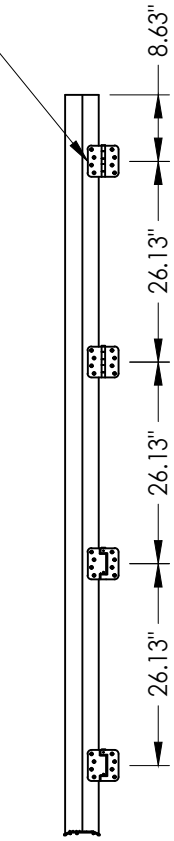
**FRAME ANCHORING**  
Masonry construction



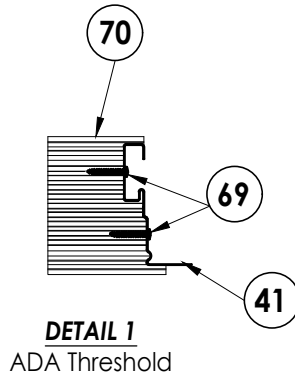
**FRAME ANCHORING**  
2X stud construction



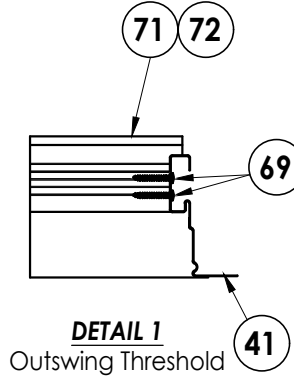
**STRIKE JAMB**



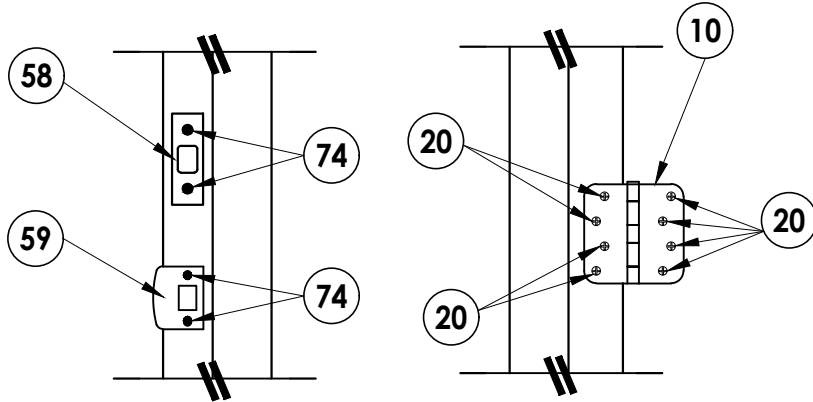
**HINGE JAMB**



**DETAIL 1**  
ADA Threshold



**DETAIL 1**  
Outswing Threshold



**STRIKE PLATE DETAIL**

**HINGE DETAIL**

**CONCRETE ANCHOR NOTES:**

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
- Concrete anchor table:

| ANCHOR TYPE      | ANCHOR SIZE | MIN. EMBEDMENT | MIN. CLEARANCE TO MASONRY EDGE | MIN. CLEARANCE TO ADJACENT ANCHOR |
|------------------|-------------|----------------|--------------------------------|-----------------------------------|
| ITW TAPCON®      | 1/4"        | 1-1/4"         | 2"                             | 4" / 3" (steel stud)              |
| DeWALT ULTRACON® | 1/4"        | 1-1/4"         | 1"                             | 4"                                |

**WOOD SCREW INSTALLATION NOTES:**

- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

Documents Prepared By:  
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FBPE Registry No. 9813

PRODUCT:  
DUNBARTON REDIFLEX  
TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:  
BUCK AND FRAME ANCHORING

| NO. | DATE    | REVISIONS                    |
|-----|---------|------------------------------|
| 5   | 7/01/26 | UPDATE TO 9TH ED. (2026) FBC |
| 4   | 7/06/23 | UPDATE TO 8TH ED. (2023) FBC |
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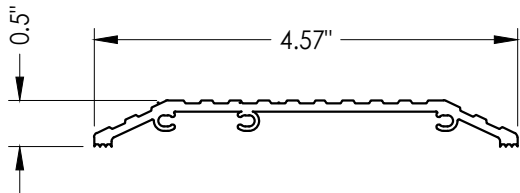
CHK. BY: LFS

DRAWING NO.: FL-15341.5

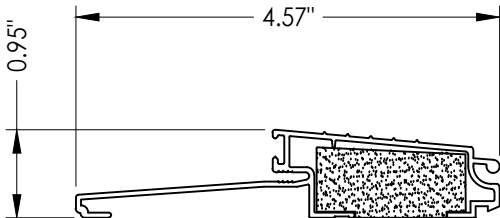
SHEET 6 OF 7

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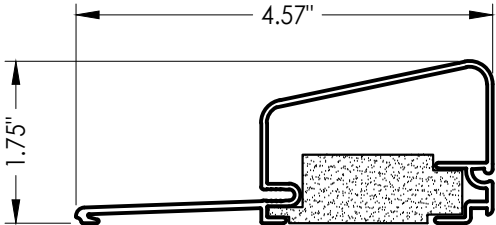
| BILL OF MATERIALS |                                                                                                |          |
|-------------------|------------------------------------------------------------------------------------------------|----------|
| ITEM #            | DESCRIPTION                                                                                    | MATERIAL |
| A                 | 2X FRAMING: SG >= 0.55                                                                         | WOOD     |
| B                 | 2X BUCK SG >= 0.55                                                                             | WOOD     |
| E                 | MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90 | CONCRETE |
| D                 | 1/4" X 2-3/4" DeWALT OR ITW PFH CONCRETE SCREW                                                 | STEEL    |
| P                 | 1/4" X 1-3/4" ITW HWH CONCRETE SCREW                                                           | STEEL    |
| X                 | SSMA STUD 550S1 62-54 (Fy = 33 ksi, Fu = 45 ksi)                                               | STEEL    |
| 8                 | 10-16 TEKS SELF-DRILLING SCREW (ITW BUILDEX)                                                   | STEEL    |
| 9                 | #6 X 2" PFH WS (1-3/8" MIN. EMBEDMENT)                                                         | STEEL    |
| 10                | HINGE                                                                                          | STEEL    |
| 20                | 10-24 X 1/2" PFH MS                                                                            | STEEL    |
| 23                | #6 X 1-1/2" PFH WOOD SCREW (1-3/8" MIN. EMBEDMENT)                                             | STEEL    |
| 29                | JAMB HINGE REIN. 14 GA. 4" x 4" x 1.53" (.075" GALV. STEEL) BY DUNBARTON FR00505               | STEEL    |
| 30                | COMPRESSION WEATHERSTRIPPING QLON QDS 650 BY SCHLEGEL                                          | FOAM     |
| 41                | REDIFLEX JAMB BASE 18 GA. (.0042" MIN. GALV. STEEL) BY DUNBARTON                               | STEEL    |
| 42                | REDIFLEX JAMB CLOSURE 22 GA. (.026" MIN. GALV. STEEL) BY DUNBARTON                             | STEEL    |
| 50                | STEEL DOOR PANEL - by MASONITE                                                                 | -        |
| 58                | STRIKE PLATE - DEADBOLT                                                                        | STEEL    |
| 59                | STRIKE PLATE - LATCHBOLT                                                                       | STEEL    |
| 69                | #8 X 1-1/4" PWH SMS                                                                            | STEEL    |
| 70                | ADA THRESHOLD                                                                                  | ALUM     |
| 71                | OUTSWING THRESHOLD                                                                             | ALUM     |
| 72                | HIGH DAM OUTSWING THRESHOLD                                                                    | ALUM     |
| 74                | 8-32 x 3/8" PFH MS                                                                             | STEEL    |



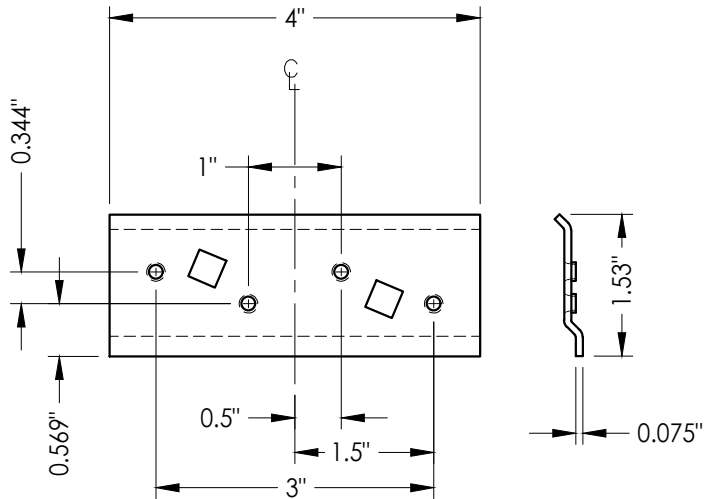
70 **ADA THRESHOLD**  
Imperial



71 **OUTSWING THRESHOLD**  
Imperial



72 **HIGH DAM THRESHOLD**  
AFCO



29 **HINGE REINFORCEMENT**

|                                                               |  |  |     |         |                                                                                                                    |     |     |  |  |
|---------------------------------------------------------------|--|--|-----|---------|--------------------------------------------------------------------------------------------------------------------|-----|-----|--|--|
| Documents Prepared By:<br>Lyndon F. Schmidt<br>P.E. No. 43409 |  |  |     |         | BUILDING CONSULTANTS, INC.<br>P.O. Box 230, Valrico, FL 33595<br>Phone No.: 813.659.9197<br>FBPE Registry No. 9813 |     |     |  |  |
| PRODUCT:<br><br>DUNBARTON REDIFLEX<br>TWO-PIECE STEEL FRAME   |  |  |     |         | PART OR ASSEMBLY:<br><br>BILL OF MATERIALS<br>& COMPONENTS                                                         |     |     |  |  |
|                                                               |  |  |     |         |                                                                                                                    |     |     |  |  |
|                                                               |  |  | 5   | 7/01/26 | UPDATE TO 9TH ED. (2026)                                                                                           | FBC | LFS |  |  |
|                                                               |  |  | 4   | 7/06/23 | UPDATE TO 8TH ED. (2023)                                                                                           | FBC | LFS |  |  |
|                                                               |  |  | 3   | 8/11/20 | UPDATE TO 7TH ED. (2020)                                                                                           | FBC | DAC |  |  |
|                                                               |  |  | 2   | 9/30/17 | UPDATE TO 6TH ED. (2017)                                                                                           | FBC | LFS |  |  |
|                                                               |  |  | 1   | 3/23/15 | UPDATE TO 5TH ED. (2014)                                                                                           | FBC | JK  |  |  |
|                                                               |  |  | NO. | DATE    |                                                                                                                    |     | BY  |  |  |
| REVISIONS                                                     |  |  |     |         |                                                                                                                    |     |     |  |  |
| DATE: 5/28/13                                                 |  |  |     |         |                                                                                                                    |     |     |  |  |
| SCALE: N.T.S.                                                 |  |  |     |         |                                                                                                                    |     |     |  |  |
| DWG. BY: JK                                                   |  |  |     |         |                                                                                                                    |     |     |  |  |
| CHK. BY: LFS                                                  |  |  |     |         |                                                                                                                    |     |     |  |  |
| DRAWING NO.:<br>FL-15341.5                                    |  |  |     |         |                                                                                                                    |     |     |  |  |
| SHEET 7 OF 7                                                  |  |  |     |         |                                                                                                                    |     |     |  |  |