

| REVISIONS |                      |            |          |
|-----------|----------------------|------------|----------|
| REV       | DESCRIPTION          | DATE       | APPROVED |
| B         | REVISED PER NEW CODE | 01/29/2024 | R.L.     |

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
2. WOOD FRAMING, METAL STRUCTURE AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1–1/2” UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER’S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
4. WHERE WOOD BUCK THICKNESS IS 1–1/2” OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER’S PUBLISHED INSTALLATION INSTRUCTIONS.
5. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
6. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. SHIM AS NEEDED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16” OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4”.
8. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
9. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
10. FRAME MATERIAL: WOOD SPECIFIC GRAVITY G=0.59 MINIMUM (LARCH, SIPO, MERANTI, MAHOGANY, WHITE OAK, WALNUT)
11. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 5 FOR GLASS DETAILS.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #12 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. FOR ANCHORING INTO METAL STRUCTURE USE #12 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. ALL FASTENERS TO BE CORROSION RESISTANT.
16. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER’S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:

16.1. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42

16.2. METAL STRUCTURE: STEEL 18GA (.048”) FY=33KSI/FU=52KSI OR ALUMINUM 6063–T5 FU=30KSI 1/8” THICK MINIMUM
17. OPTIONAL RAIL MAYBE LOCATED AT ANY HEIGHT.
18. UNITS MAY USE SIMULATED DIVIDED LITES (SDL).

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BILDAU & BUSSMAN GMBH  
GERICHTSTRASSE 23  
DE 13347 BERLIN, GERMANY

OUTSWING FRENCH DOOR – GLAZED  
SINGLE AND DOUBLE  
NOTES

DRAWN:  
V.L.

DWG NO.  
08–01354

REV  
B

SCALE NTS

DATE 08/06/12

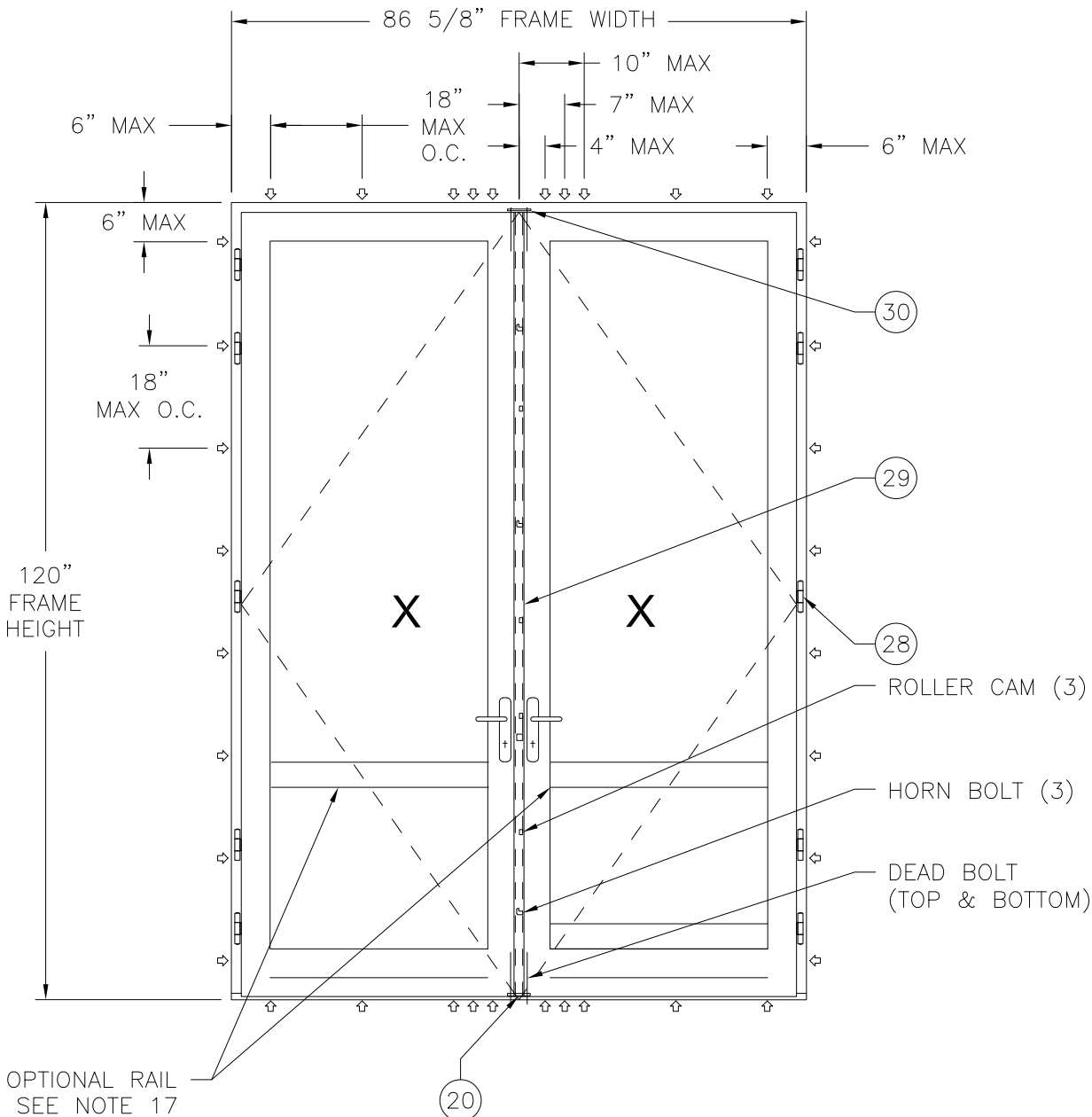
SHEET 1 OF 9

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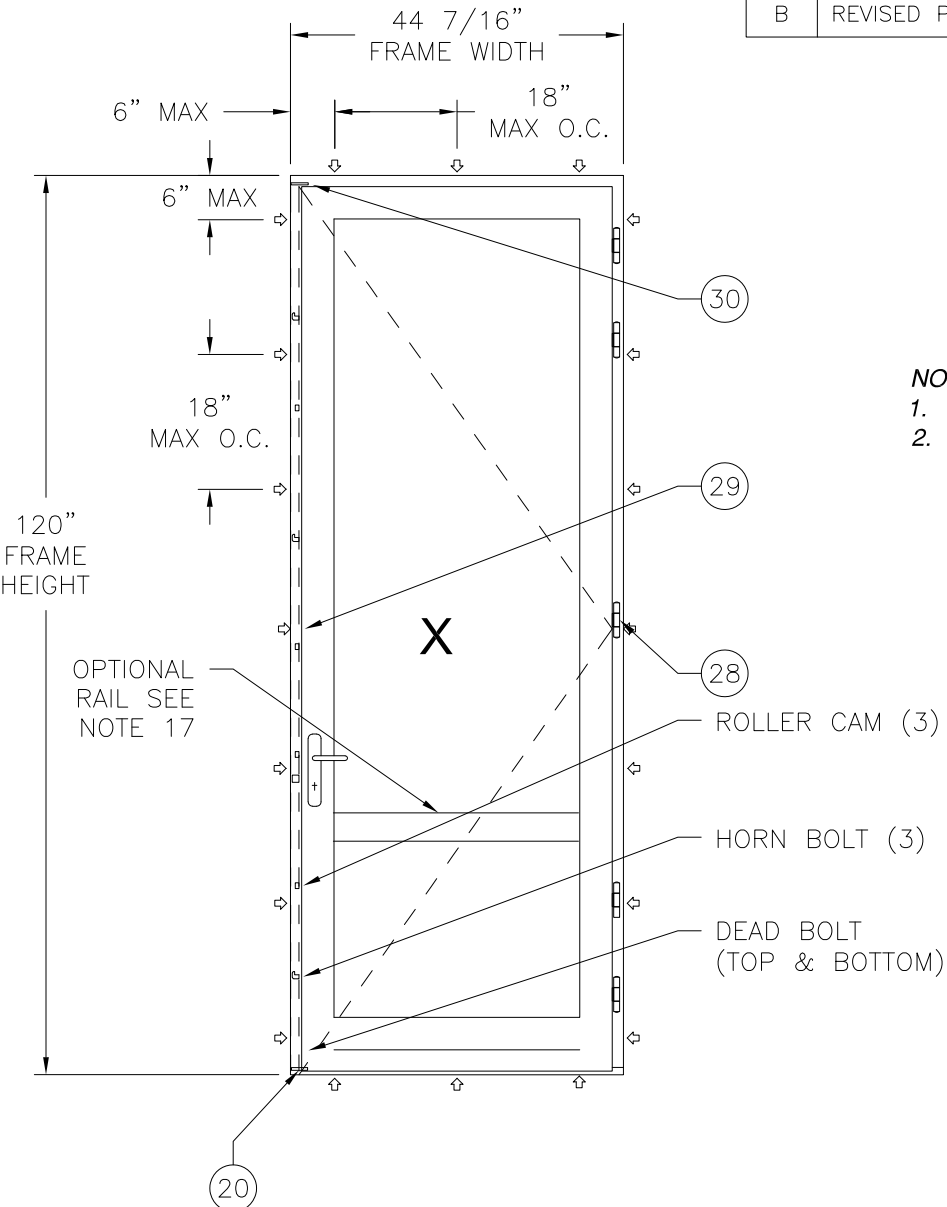
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FL No.: 62514



OUTSWING DOOR - DOUBLE  
EXTERIOR VIEW



OUTSWING DOOR - SINGLE  
EXTERIOR VIEW

- NOTES:
- PANEL SIZE: 43 1/2" X 118"
  - D.L.O.: 32 13/16" X 106 9/16"

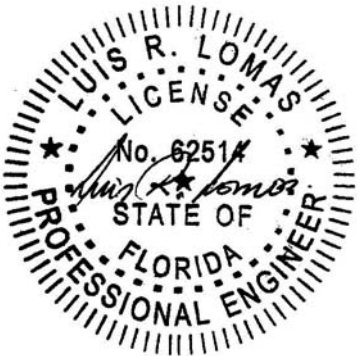
| DESIGN PRESSURE RATING | IMPACT RATING                  |
|------------------------|--------------------------------|
| ±70PSF                 | LARGE AND SMALL MISSILE IMPACT |

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ  
43 1/2" X 118" PANELS SHOWN. OTHER PANEL SIZES ARE APPROVED AS LONG AS  
PANEL AREA DOES NOT EXCEED 35.6 FT²

| HARDWARE SCHEDULE                            |
|----------------------------------------------|
| A. (5) 3D HINGES BY SIMONSWERK               |
| B. MULTIPOINT LOCK SERIES 8556 BY FUHR       |
| C. ALUMINUM THRESHOLD BY BILDAU & BUSSMANN   |
| D. BRONZE THRESHOLD BY ZERO (OPTIONAL)       |
| E. DEAD BOLT & STRIKERS BY BILDAU & BUSSMANN |

|                                                                                                   |                     |                 |
|---------------------------------------------------------------------------------------------------|---------------------|-----------------|
| BILDAU & BUSSMAN GMBH<br>GERICHTSTRASSE 23<br>DE 13347 BERLIN, GERMANY                            |                     |                 |
| OUTSWING FRENCH DOOR – GLAZED<br>SINGLE AND DOUBLE<br>ELEVATIONS                                  |                     |                 |
| DRAWN:<br>V.L.                                                                                    | DWG NO.<br>08-01354 | REV<br>B        |
| SCALE<br>NTS                                                                                      | DATE<br>08/06/12    | SHEET<br>2 OF 9 |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |                 |

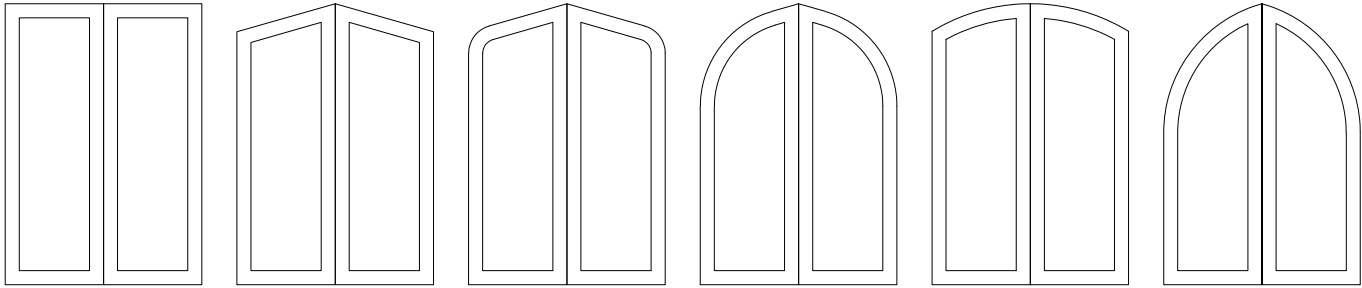
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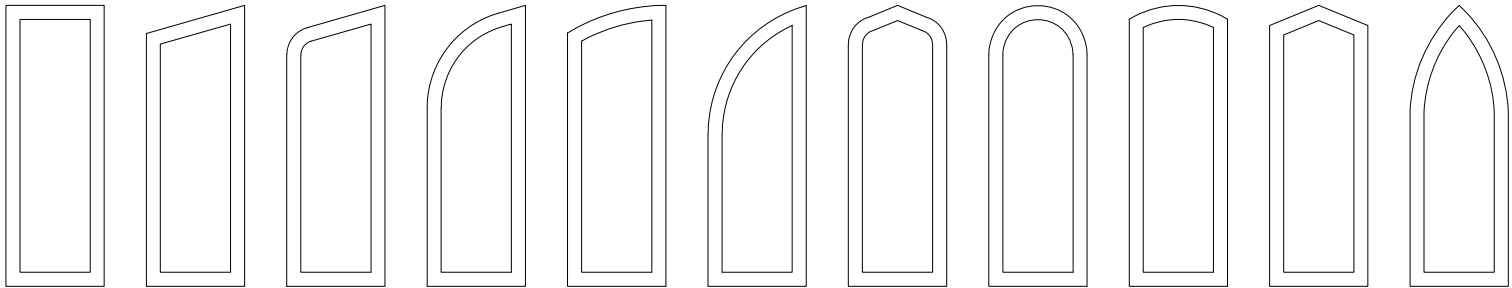
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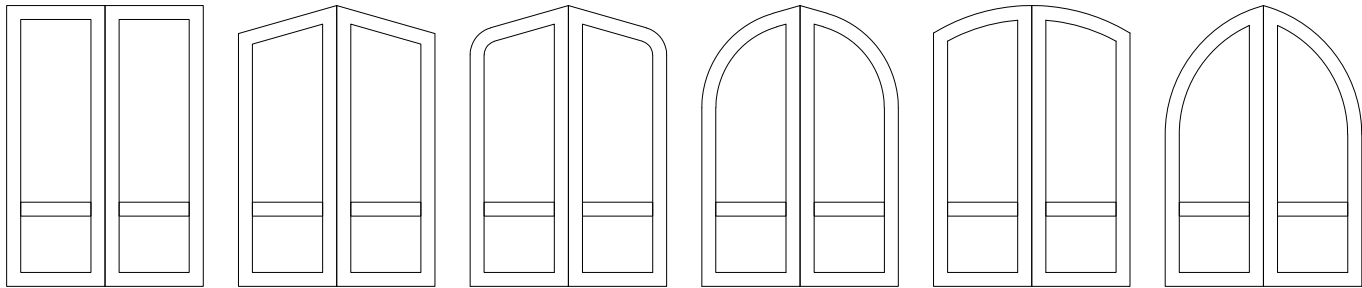
APPROVED CONFIGURATIONS



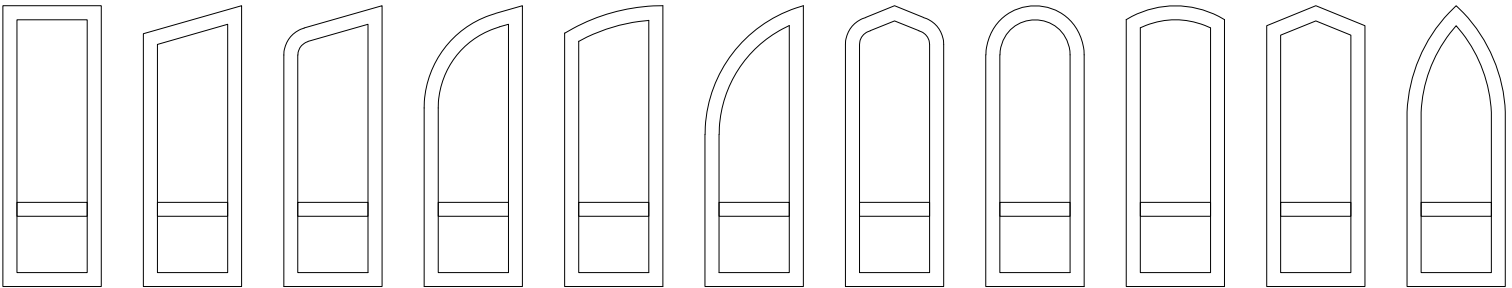
FULL LITE DOUBLE DOOR UNITS



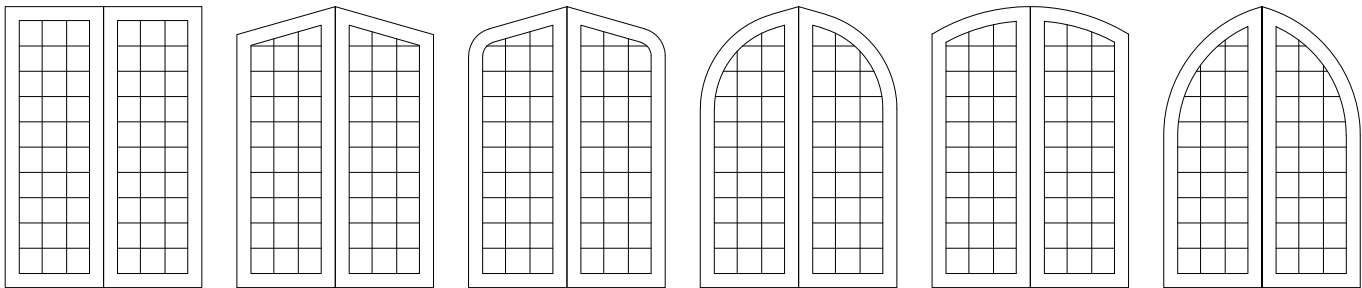
FULL LITE SINGLE DOOR UNITS



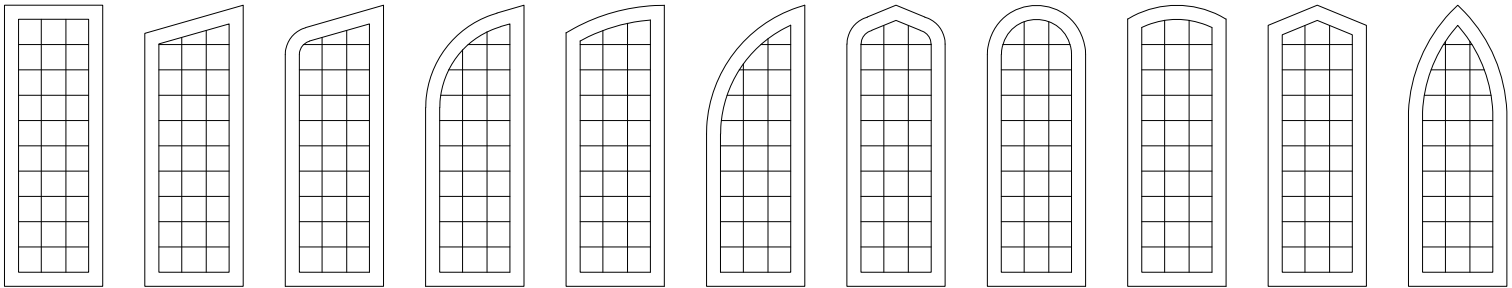
DOUBLE DOOR UNITS WITH HORIZONTAL RAIL



SINGLE DOOR UNITS WITH HORIZONTAL RAIL



DOUBLE DOOR UNITS SDL



SINGLE DOOR UNITS WITH SDL

NOTE:  
APPROVED CONFIGURATIONS AS SHOWN MUST NOT  
EXCEED APPROVED SIZES. SEE SHEET 2.

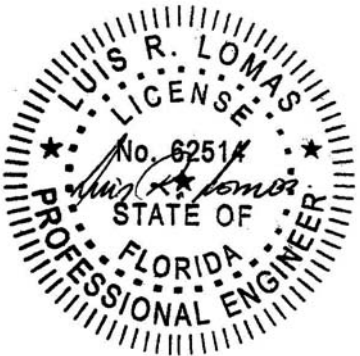
BILDAU & BUSSMAN GMBH  
GERICHTSTRASSE 23  
DE 13347 BERLIN, GERMANY

OUTSWING FRENCH DOOR – GLAZED  
SINGLE AND DOUBLE  
APPROVED CONFIGURATIONS

|                |                     |                 |
|----------------|---------------------|-----------------|
| DRAWN:<br>V.L. | DWG NO.<br>08-01354 | REV<br>B        |
| SCALE<br>NTS   | DATE<br>08/06/12    | SHEET<br>3 OF 9 |

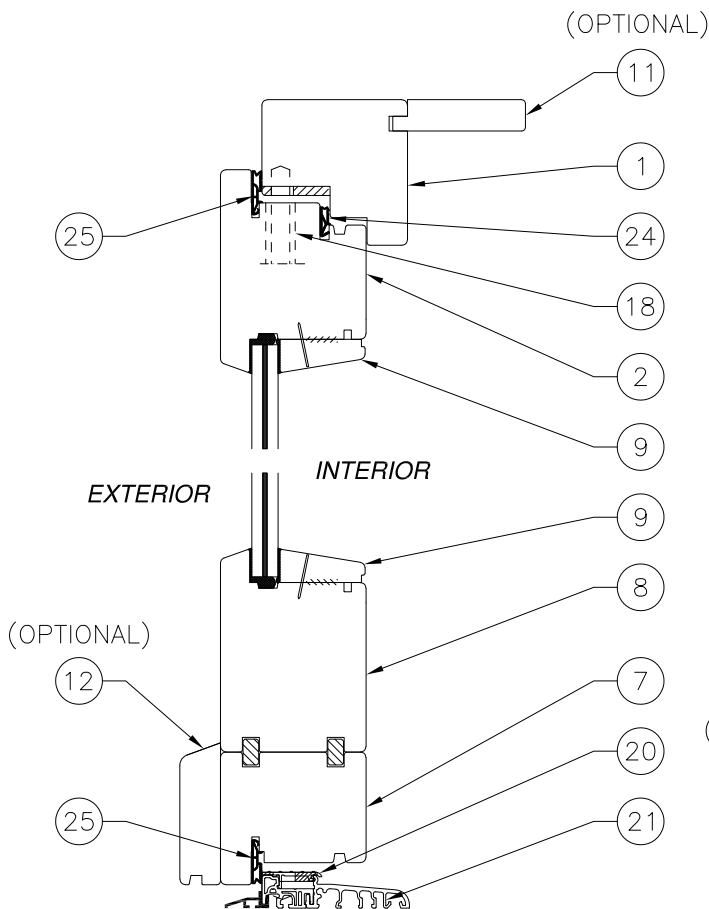
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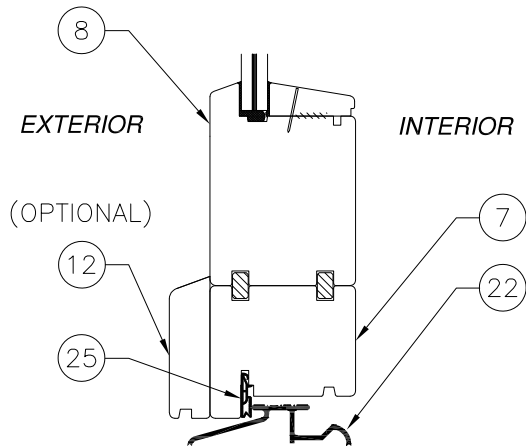
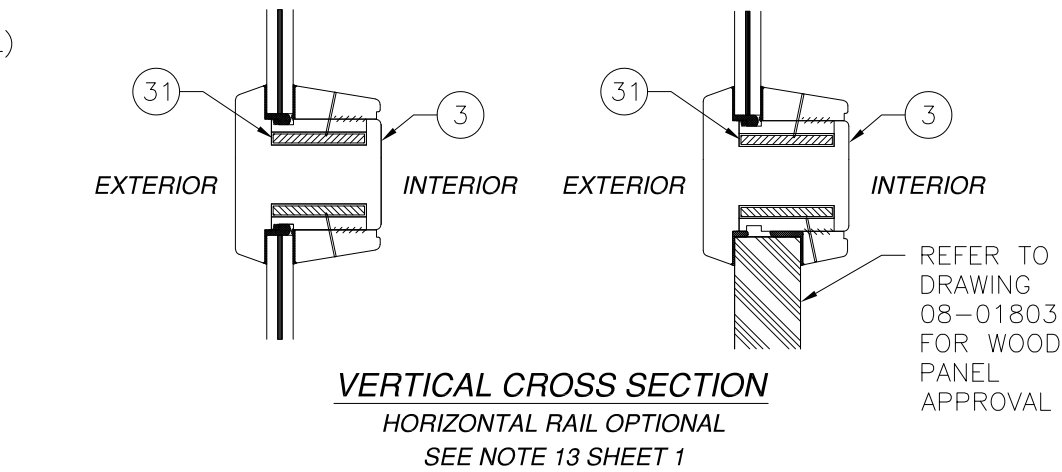


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| PARTS LIST |             |                                |              |                   |
|------------|-------------|--------------------------------|--------------|-------------------|
| NO.        | PART NUMBER | DESCRIPTION                    | MANUFACTURER | MATERIAL          |
| 1          |             | FRAME JAMB & HEAD              | B&B          | WOOD (SEE NOTE 5) |
| 2          |             | SASH HINGE STILE & TOP RAIL    | B&B          | WOOD (SEE NOTE 5) |
| 3          |             | SASH MIDDLE RAIL               | B&B          | WOOD (SEE NOTE 5) |
| 4          |             | SASH MEETING STILE             | B&B          | WOOD (SEE NOTE 5) |
| 5          |             | INACTIVE MEETING STILE         | B&B          | WOOD (SEE NOTE 5) |
| 6          |             | INACTIVE MEETING STILE         | B&B          | WOOD (SEE NOTE 5) |
| 7          |             | SASH BOTTOM RAIL               | B&B          | WOOD (SEE NOTE 5) |
| 8          |             | SASH BOTTOM RAIL               | B&B          | WOOD (SEE NOTE 5) |
| 9          |             | GLAZING STOP                   | B&B          | WOOD (SEE NOTE 5) |
| 10         |             | GLAZING STOP                   | B&B          | WOOD (SEE NOTE 5) |
| 11         |             | JAMB EXTENSION                 | B&B          | WOOD (SEE NOTE 5) |
| 12         |             | DRIP BATTEN                    | B&B          | WOOD (SEE NOTE 5) |
| 13         |             | FLAT ASTRAGAL SMALL            | B&B          | WOOD (SEE NOTE 5) |
| 14         |             | FLAT ASTRAGAL WIDE             | B&B          | WOOD (SEE NOTE 5) |
| 15         |             | FLAT ASTRAGAL HIGH             | B&B          | WOOD (SEE NOTE 5) |
| 16         |             | T-ASTRAGAL                     | B&B          | WOOD (SEE NOTE 5) |
| 17         |             | STEEL REINFORCEMENT            | B&B          | STEEL             |
| 18         |             | ACTIVE SASH MULTI-POINT LOCK   | FUHR         |                   |
| 19         |             | INACTIVE SASH MULTI-POINT LOCK | FUHR         |                   |
| 20         |             | THRESHOLD STEEL STRIKER        | B&B          |                   |
| 21         |             | ALUMINUM THRESHOLD EIFEL       | B&B          |                   |
| 22         | 76B         | BRONZE THRESHOLD               | ZERO         |                   |
| 23         |             | STEEL BRAD                     |              |                   |
| 24         | DS112       | WEATHERSTRIP                   | DEVENTER     | EPDM 75 SHORE A   |
| 25         | DS185       | WEATHERSTRIP                   | DEVENTER     | EPDM 75 SHORE A   |
| 26         | SV103       | WEATHERSTRIP                   | DEVENTER     | EPDM 75 SHORE A   |
| 27         | DS9609      | WEATHERSTRIP                   | DEVENTER     | EPDM 75 SHORE A   |
| 28         |             | 3D HINGE                       | SIMONSWERK   |                   |
| 29         |             | INACTIVE SASH SYSTEM           | FUHR         |                   |
| 30         |             | HEADER STEEL STRIKER           | B&B          | STEEL             |
| 31         |             | STEEL REINFORCEMENT            | B&B          | STEEL EN S275     |
| 32         |             | CLIP                           |              | GALVANIZED STEEL  |
| 33         |             | FILLER                         | B&B          | WOOD (SEE NOTE 5) |
| 34         |             | GLASS STOP (OPTIONAL)          | B&B          | WOOD (SEE NOTE 5) |
| 35         |             | GLASS STOP (OPTIONAL)          | B&B          | WOOD (SEE NOTE 5) |
| 36         | M24         | CLIP (ALTERNATE)               | STRONG TIE   | GALVANIZED STEEL  |
| 37         | HL33        | CLIP (ALTERNATE)               | STRONG TIE   | GALVANIZED STEEL  |
| 38         | A33         | CLIP (ALTERNATE)               | STRONG TIE   | GALVANIZED STEEL  |



VERTICAL SECTION



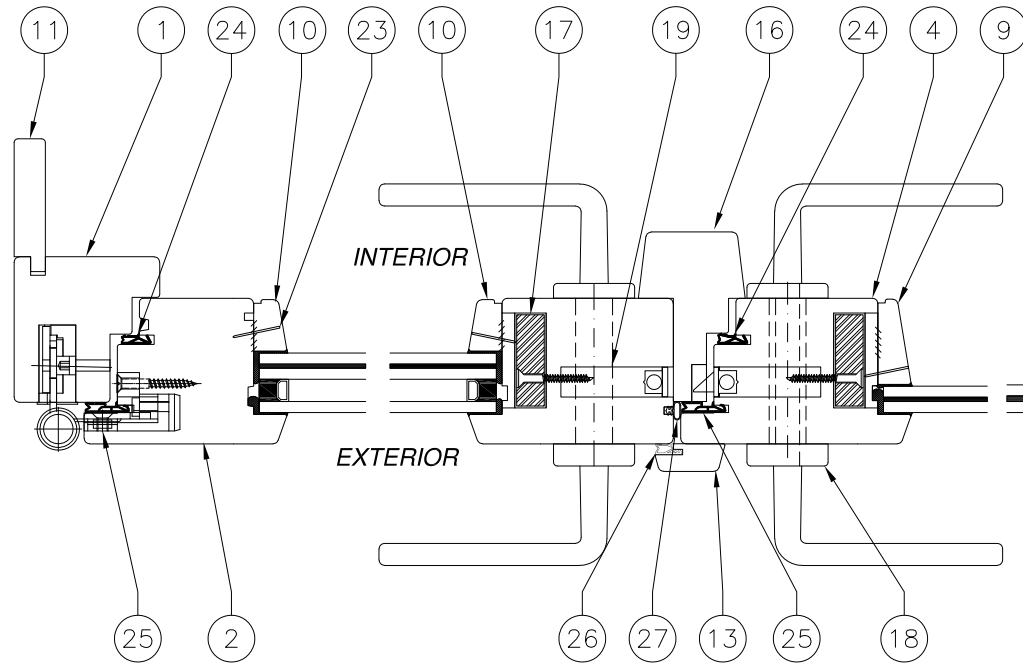
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|---------------------------------------------------------------------------------------------------|---------------------|-----------------|
| BILDAU & BUSSMAN GMBH<br>GERICHTSTRASSE 23<br>DE 13347 BERLIN, GERMANY                            |                     |                 |
| OUTSWING FRENCH DOOR – GLAZED<br>SINGLE AND DOUBLE<br>B.O.M. AND CROSS SECTIONS                   |                     |                 |
| DRAWN:<br>V.L.                                                                                    | DWG NO.<br>08-01354 | REV<br>B        |
| SCALE<br>NTS                                                                                      | DATE<br>08/06/12    | SHEET<br>4 OF 9 |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |                 |

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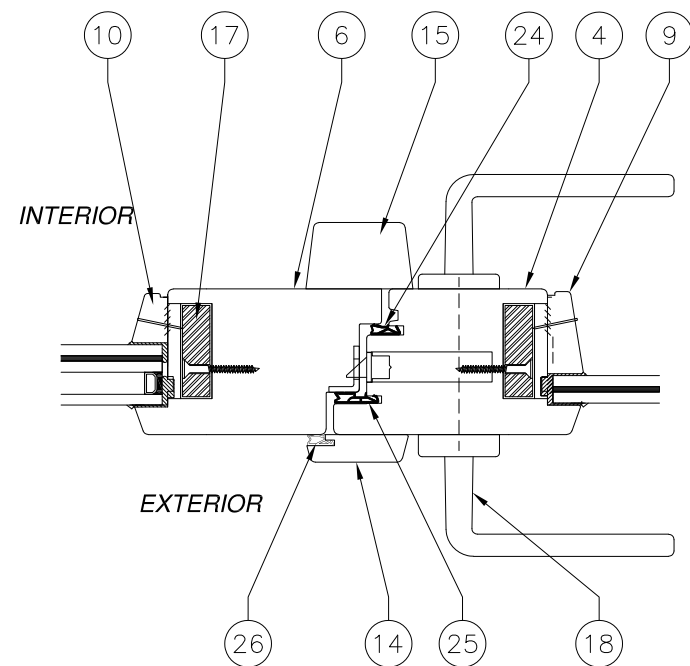


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(OPTIONAL)

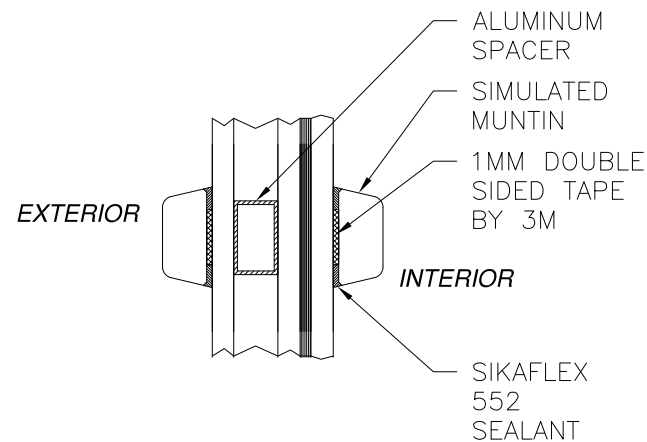
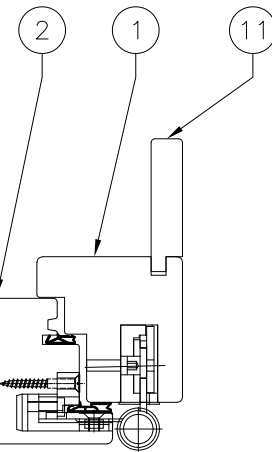


HORIZONTAL SECTION



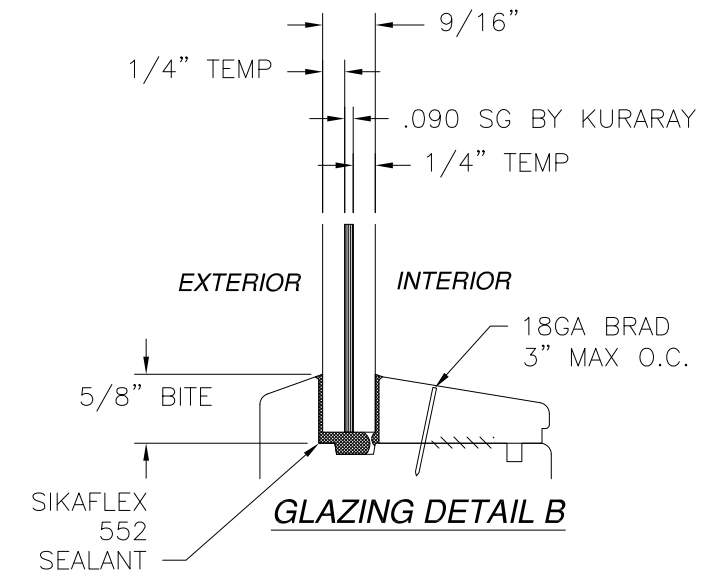
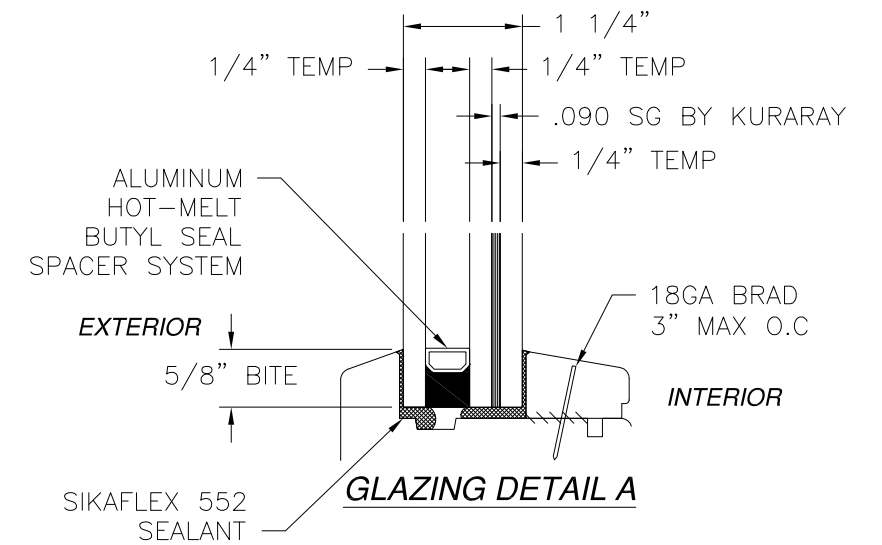
HORIZONTAL SECTION FLAT ASTRAGAL (OPTIONAL)

(OPTIONAL)



SIMULATED DIVIDED LITE (SDL)  
CROSS SECTION

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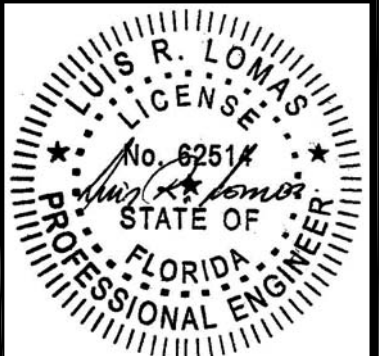
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GERICHTSTRASSE 23  
DE 13347 BERLIN, GERMANY

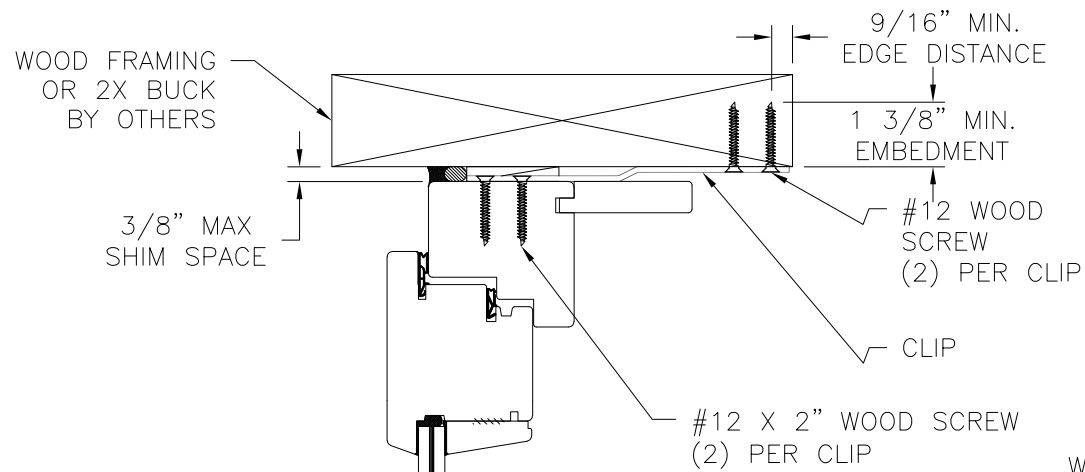
OUTSWING FRENCH DOOR – GLAZED  
SINGLE AND DOUBLE  
CROSS SECTIONS & GLAZING DETAILS

|                |                     |              |
|----------------|---------------------|--------------|
| DRAWN:<br>V.L. | DWG NO.<br>08-01354 | REV<br>B     |
| SCALE NTS      | DATE 08/06/12       | SHEET 5 OF 9 |

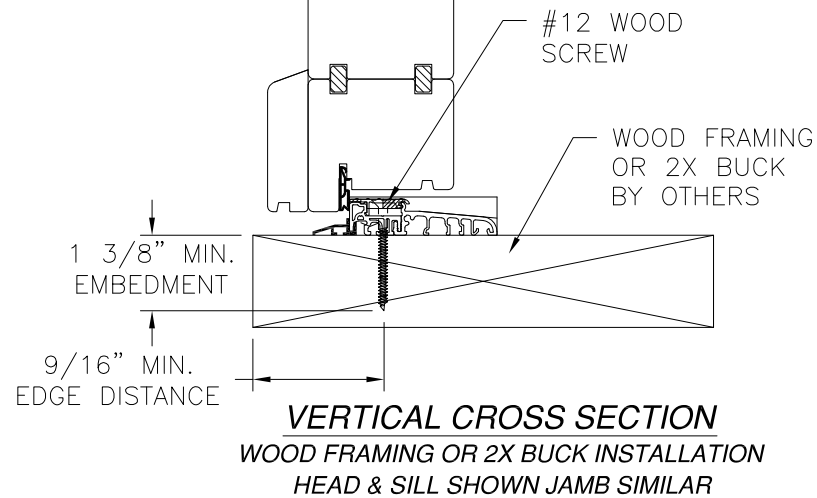
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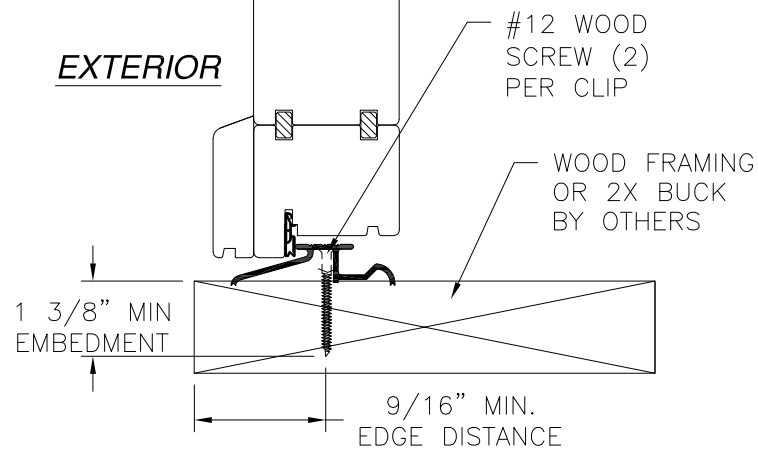
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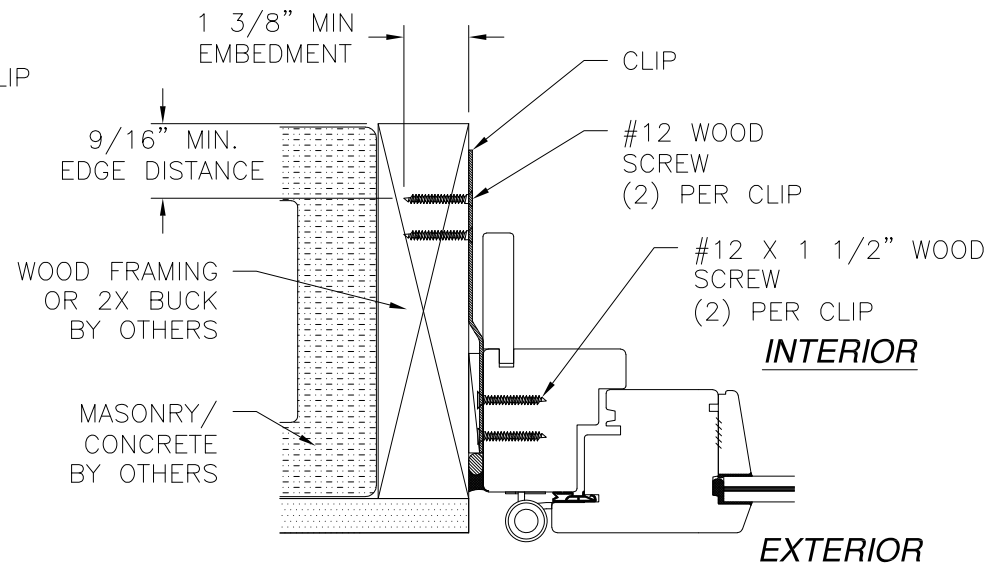
**EXTERIOR** **INTERIOR**



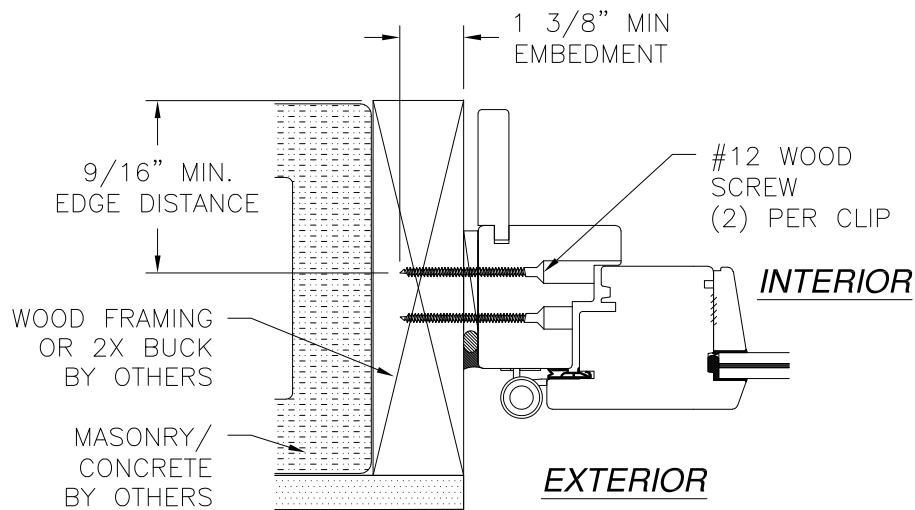
**EXTERIOR** **INTERIOR**



**VERTICAL CROSS SECTION**  
WOOD FRAMING OR 2X BUCK INSTALLATION  
WITH BRONZE THRESHOLD.



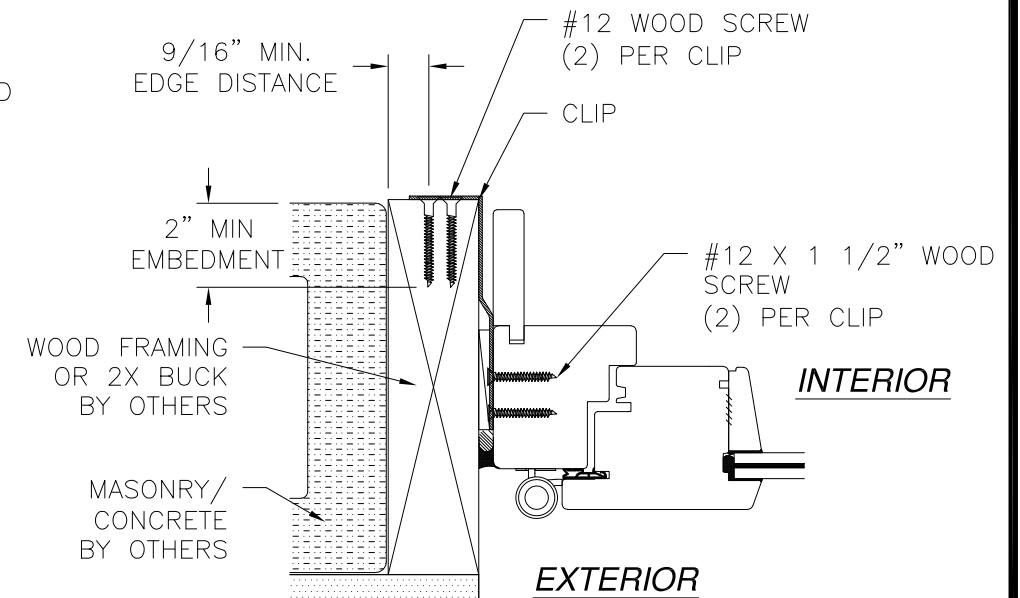
**FLUSH INSTALLATION**  
MASONRY/CONCRETE INSTALLATION SHOWN  
WOOD FRAMING OR 2X BUCK INSTALLATION SIMILAR  
JAMB SHOWN HEAD AND SILL SIMILAR



**INSET FRAME INSTALLATION**  
MASONRY/CONCRETE INSTALLATION SHOWN  
WOOD FRAMING OR 2X BUCK INSTALLATION SIMILAR  
JAMB SHOWN HEAD AND SILL SIMILAR

**NOTE:**  
INTERIOR AND EXTERIOR TRIM, BY OTHERS, NOT SHOWN FOR CLARITY.  
WHEN INSTALLING INTO MASONRY OR CONCRETE 2X BUCK TO BE USED. 2X BUCK TO BE PROPERLY SECURED TO STRUCTURE

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**INSET INSTALLATION**  
MASONRY/CONCRETE INSTALLATION SHOWN  
WOOD FRAMING OR 2X BUCK INSTALLATION SIMILAR  
JAMB SHOWN HEAD AND SILL SIMILAR

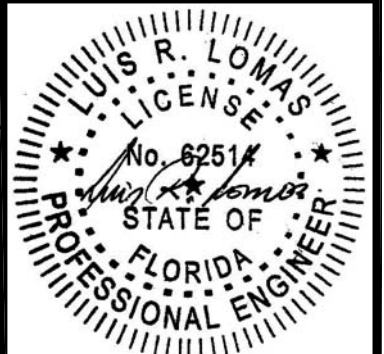
**BILDAU & BUSSMAN GMBH**  
GERICHTSTRASSE 23  
DE 13347 BERLIN, GERMANY

**OUTSWING FRENCH DOOR – GLAZED**  
SINGLE AND DOUBLE  
INSTALLATION DETAILS

|                |                     |                 |
|----------------|---------------------|-----------------|
| DRAWN:<br>V.L. | DWG NO.<br>08-01354 | REV<br>B        |
| SCALE<br>NTS   | DATE<br>08/06/12    | SHEET<br>6 OF 9 |

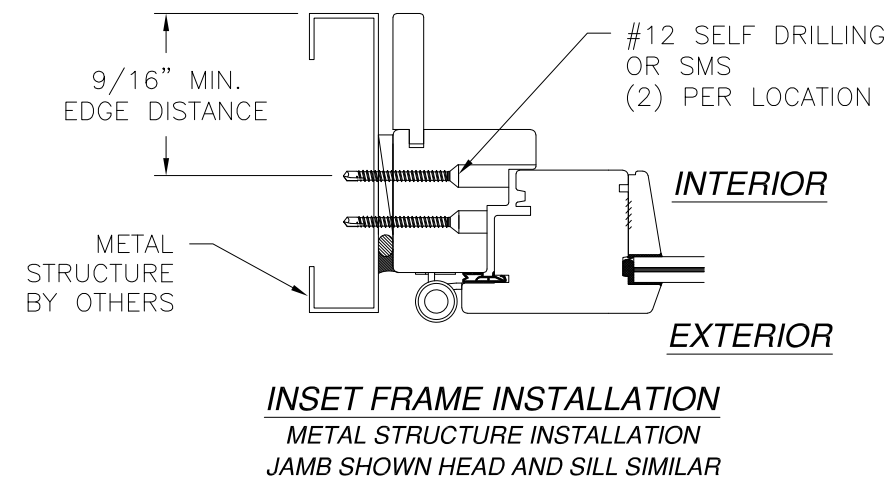
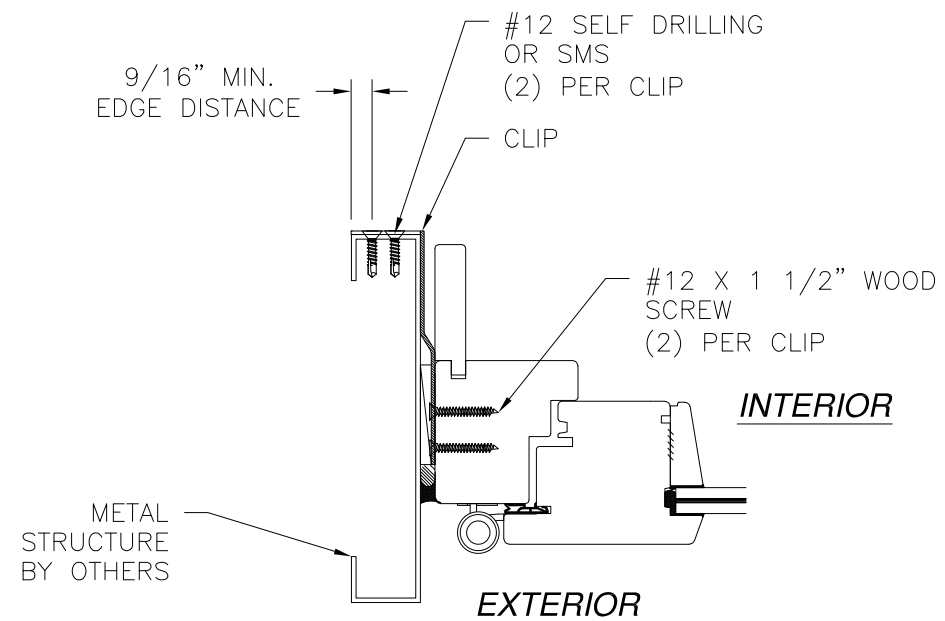
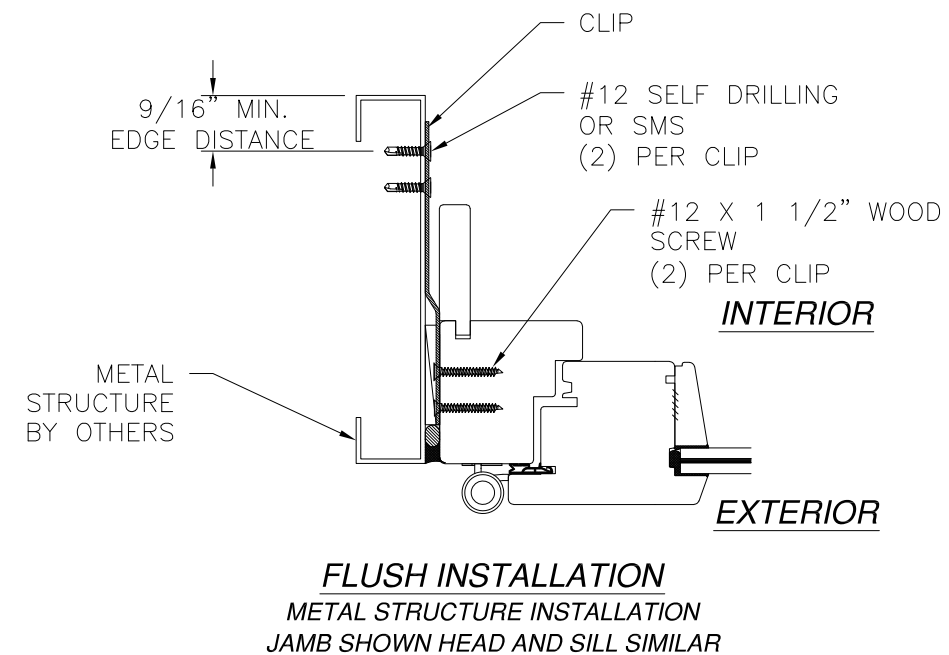
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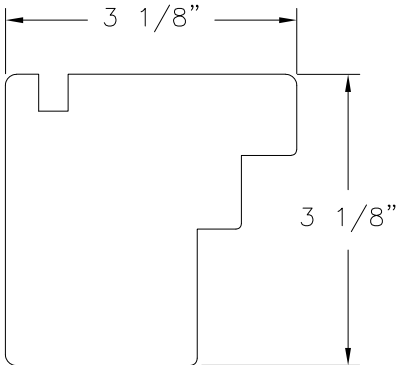
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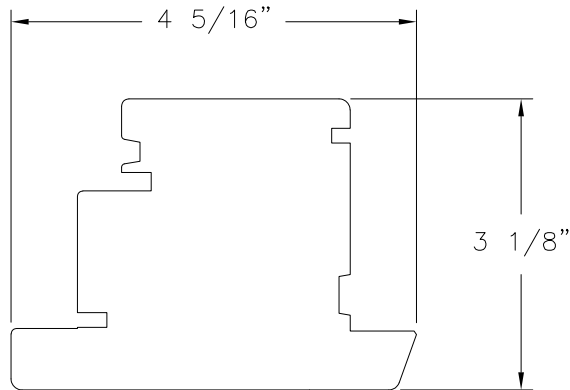
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| OUTSWING FRENCH DOOR – GLAZED<br>SINGLE AND DOUBLE<br>INSTALLATION DETAILS                        |                     |              |
| DRAWN:<br>V.L.                                                                                    | DWG NO.<br>08-01354 | REV<br>B     |
| SCALE NTS                                                                                         | DATE 08/06/12       | SHEET 7 OF 9 |
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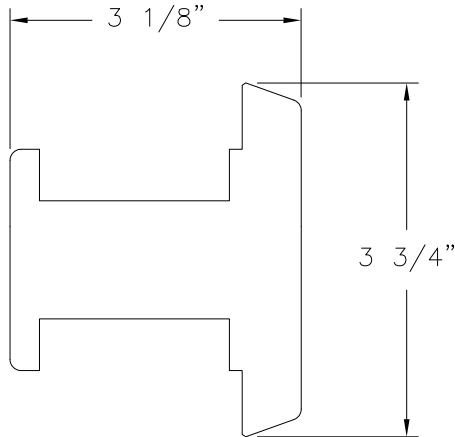
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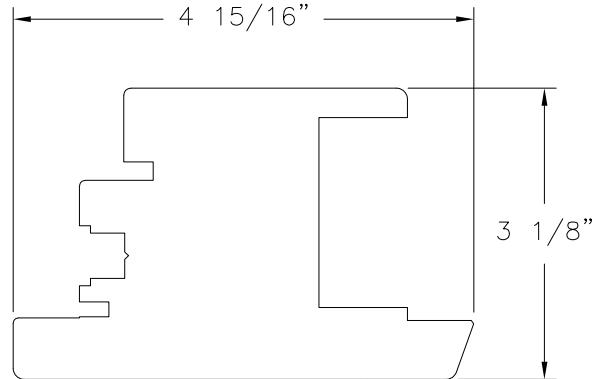
① **FRAME**  
WOOD SPECIFIC GRAVITY G=0.59 MIN.



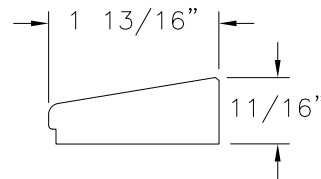
② **SASH**  
WOOD SPECIFIC GRAVITY G=0.59 MIN.



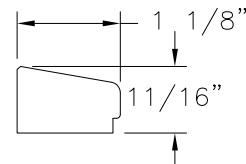
③ **SASH**  
WOOD SPECIFIC GRAVITY G=0.59 MIN.



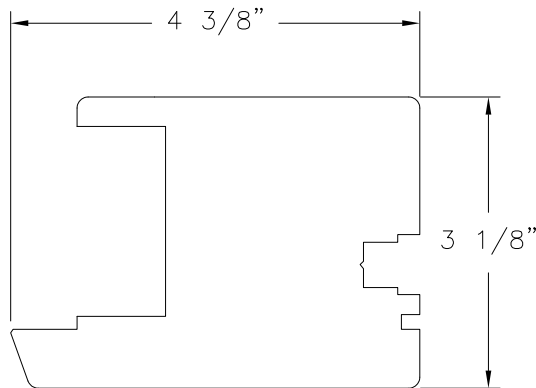
④ **SASH**  
WOOD SPECIFIC GRAVITY G=0.59 MIN.



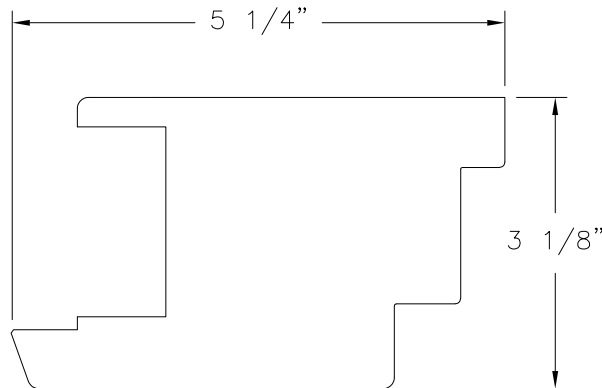
⑨ **GLASS STOP**  
WOOD SPECIFIC GRAVITY G=0.59 MIN.



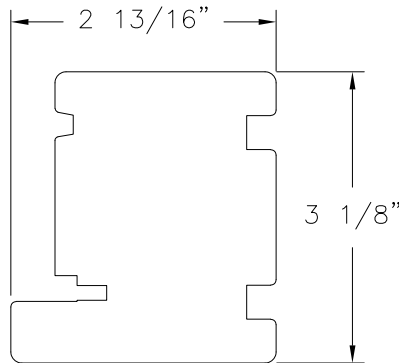
⑩ **GLASS STOP**  
WOOD SPECIFIC GRAVITY G=0.59 MIN.



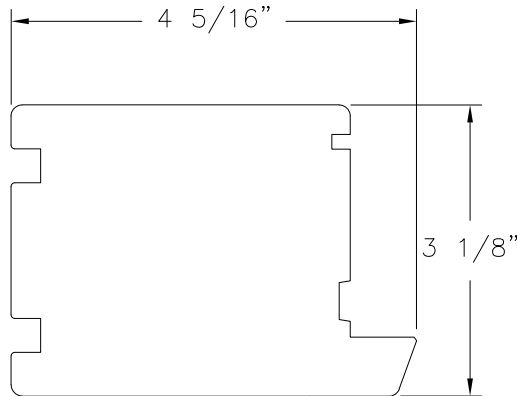
⑤ **SASH**  
WOOD SPECIFIC GRAVITY G=0.59 MIN.



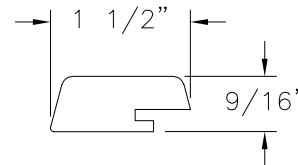
⑥ **SASH**  
WOOD SPECIFIC GRAVITY G=0.59 MIN.



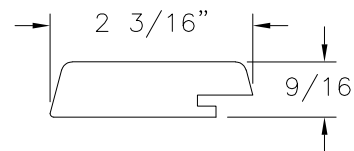
⑦ **SASH**  
WOOD SPECIFIC GRAVITY G=0.59 MIN.



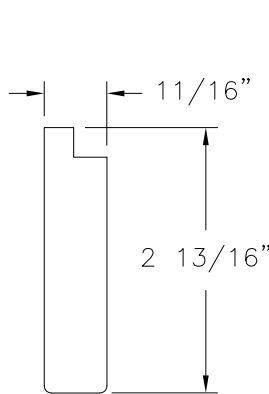
⑧ **SASH**  
WOOD SPECIFIC GRAVITY G=0.59 MIN.



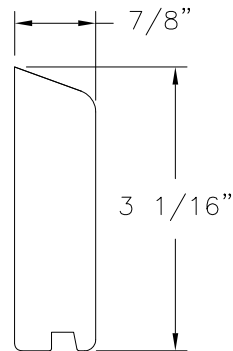
⑬ **ASTRAGAL**  
WOOD SPECIFIC GRAVITY G=0.59 MIN.



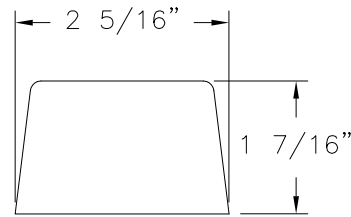
⑭ **ASTRAGAL**  
WOOD SPECIFIC GRAVITY G=0.59 MIN.



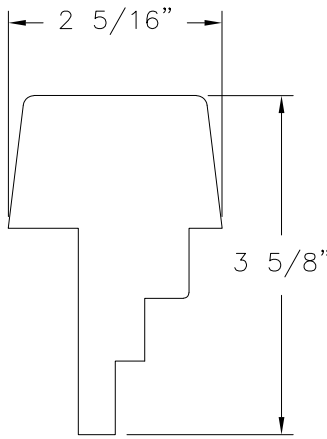
⑪ **JAMB EXTENSION**  
WOOD SPECIFIC GRAVITY G=0.59 MIN.



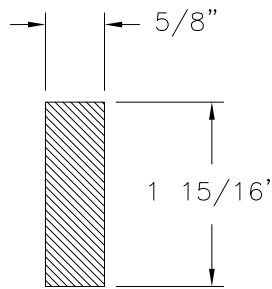
⑫ **DRIP BATTEN**  
WOOD SPECIFIC GRAVITY G=0.59 MIN.



⑮ **ASTRAGAL**  
WOOD SPECIFIC GRAVITY G=0.59 MIN.



⑯ **T-ASTRAGAL**  
WOOD SPECIFIC GRAVITY G=0.59 MIN.



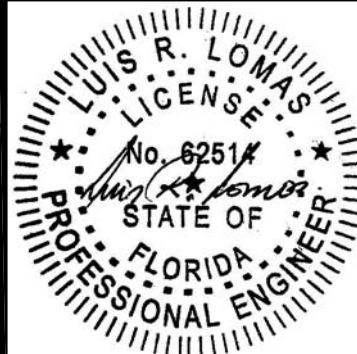
⑰ **REINFORCEMENT**  
STEEL EN S275

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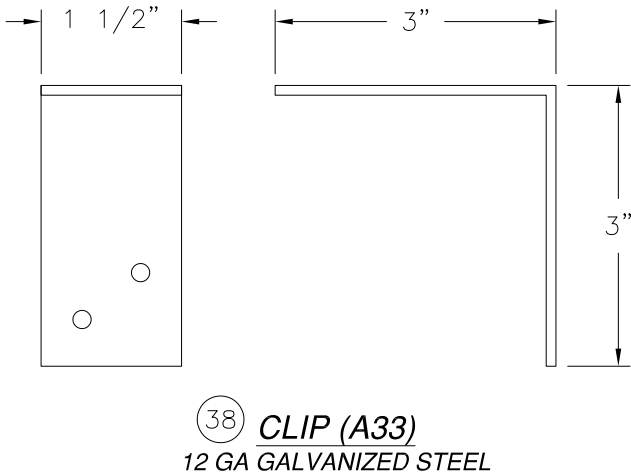
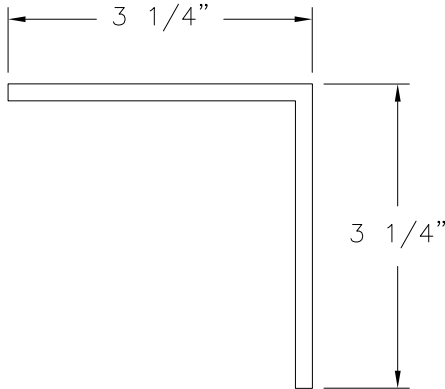
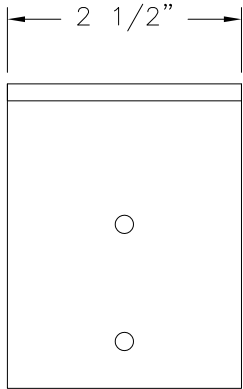
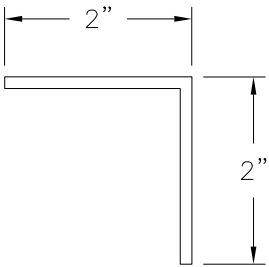
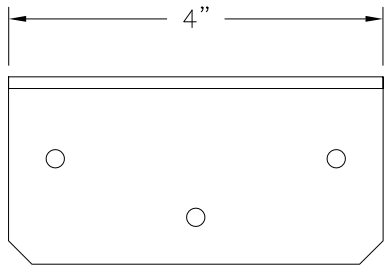
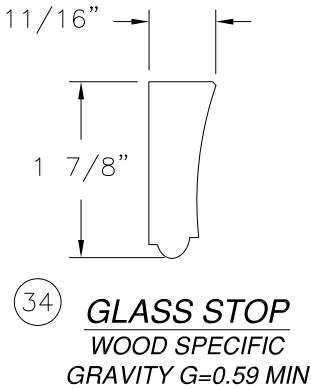
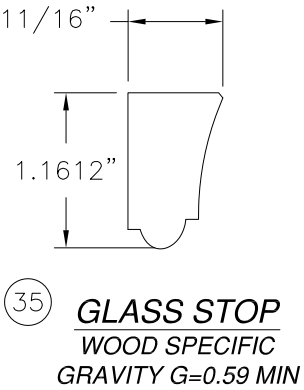
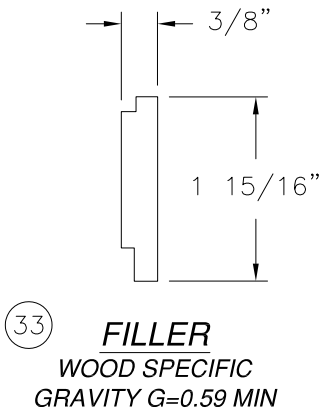
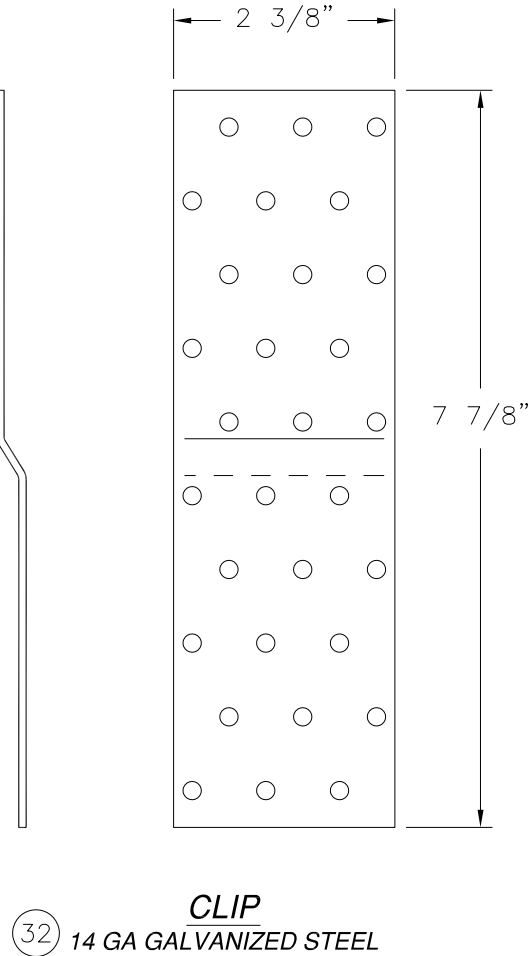
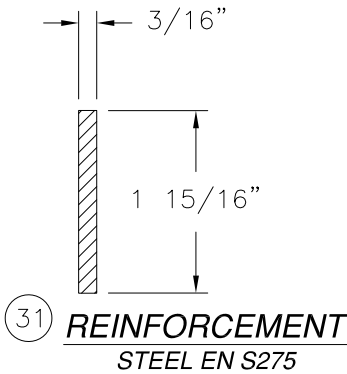
OUTSWING FRENCH DOOR – GLAZED  
SINGLE AND DOUBLE  
COMPONENTS

|                                                                                                   |                     |              |
|---------------------------------------------------------------------------------------------------|---------------------|--------------|
| DRAWN:<br>V.L.                                                                                    | DWG NO.<br>08-01354 | REV<br>B     |
| SCALE NTS                                                                                         | DATE 08/06/12       | SHEET 8 OF 9 |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |              |



Luis R. Lomas P.E.  
FL No.: 62514

| REVISIONS |                      |            |          |
|-----------|----------------------|------------|----------|
| REV       | DESCRIPTION          | DATE       | APPROVED |
| B         | REVISED PER NEW CODE | 01/29/2024 | R.L.     |



|                                                                                                   |                     |                 |
|---------------------------------------------------------------------------------------------------|---------------------|-----------------|
| BILDAU & BUSSMAN GMBH<br>GERICHTSTRASSE 23<br>DE 13347 BERLIN, GERMANY                            |                     |                 |
| OUTSWING FRENCH DOOR – GLAZED<br>SINGLE AND DOUBLE<br>COMPONENTS                                  |                     |                 |
| DRAWN:<br>V.L.                                                                                    | DWG NO.<br>08-01354 | REV<br>B        |
| SCALE<br>NTS                                                                                      | DATE<br>08/06/12    | SHEET<br>9 OF 9 |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |                 |

SIGNED: 02/06/2024



Luis R. Lomas P.E.  
FL No.: 62514