

# CROSSWATER BUILDING MATERIALS LLC

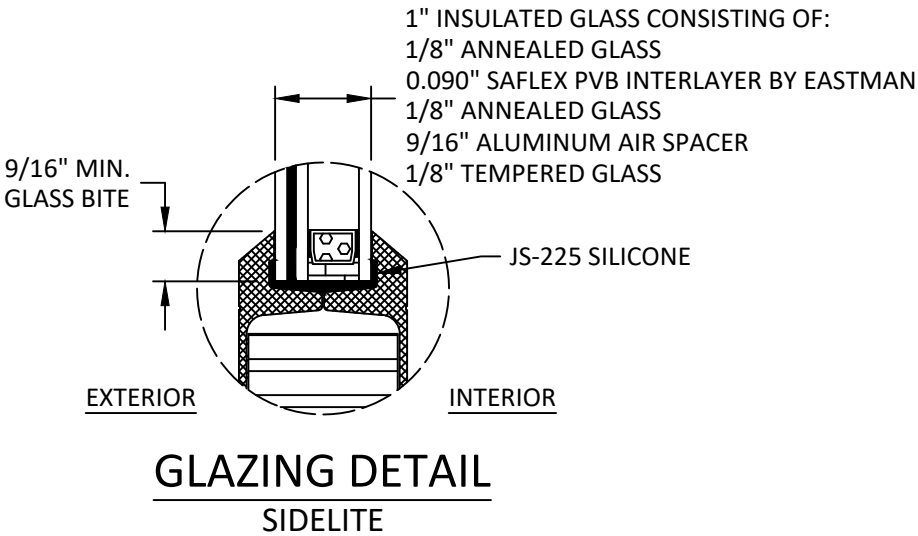
## OPAQUE DOOR (WZ3) (IMPACT)

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC) **EXCLUDING** HVHZ. ALL PRODUCTS UNDER THE SCOPE OF THIS DOCUMENT HAVE BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - AAMA/WDMA/CSA 101/I.S.2/A440-22
  - ASTM E283-19
  - ASTM E330-14(21)
  - ASTM E331-00(23)
  - ASTM E547-00(16)
  - ASTM E1886-19
  - ASTM E1996-20
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
- FRAME MATERIAL: PVC.
- DOOR SKIN MATERIAL: FIBERGLASS.
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAIL.
- ALL STRUCTURAL MATERIALS & DISSIMILAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.

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|             |                 |                              |
|-------------|-----------------|------------------------------|
| FRAME SIZE  | DESIGN PRESSURE | IMPACT MISSILE RATING        |
| SEE SHEET 2 | +/- 50 PSF      | LARGE & SMALL MISSILE IMPACT |



GLAZING NOTES:

- GLASS TYPE & THICKNESS COMPLIES WITH ASTM E1300 REQUIREMENTS. TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
- SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
- SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
- D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN SHEET 2.



CROSSWATER BUILDING MATERIALS LLC  
8341 EPICENTER BLVD.  
LAKELAND, FL 33809  
PH: (813) 310-7345

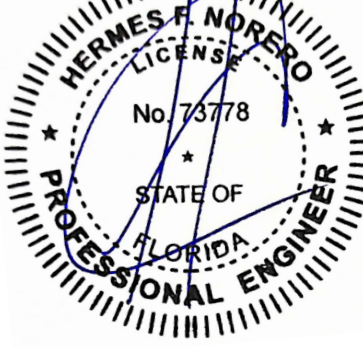
TITLE:  
OPAQUE DOOR  
(WZ3) (IMPACT)  
GENERAL NOTES &  
GLAZING DETAIL

PREPARED BY:  
BUILDING DROPS, INC.  
1900 NE MIAMI COURT, SUITE 2-15  
MIAMI, FL 33132  
PH: (954) 399-8478  
FAX: (954) 744-4738  
WEB: www.buildingdrops.com

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Digitally signed by Hermes F. Norero, P.E.  
Reason: I am approving this document  
Date: 2026.10.11 10:44:00 -0400



HERMES F. NORERO, P.E.  
FLORIDA P.E. No. 73778  
BUILDING DROPS, INC  
1900 NE MIAMI COURT, SUITE 2-15  
MIAMI, FL 33132  
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:  
**FL48503**

DATE:  
**09.30.2026**

DWG. BY:  
**MS**

CHK. BY:  
**HFN**

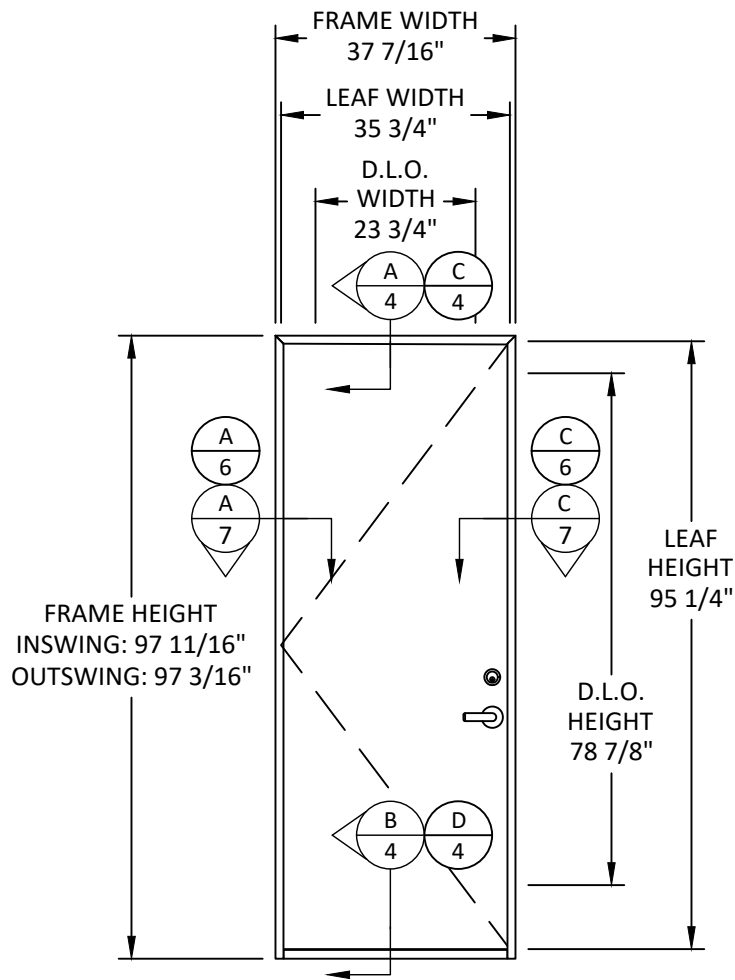
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DWG. #:  
**CBM006**

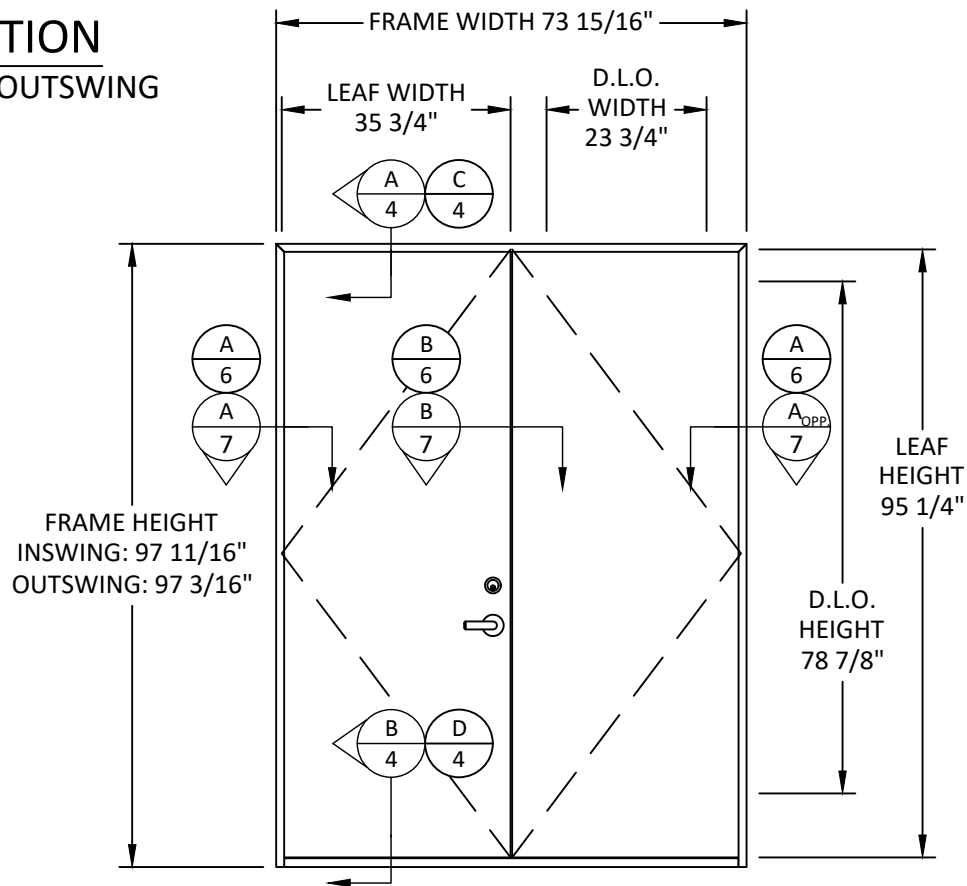
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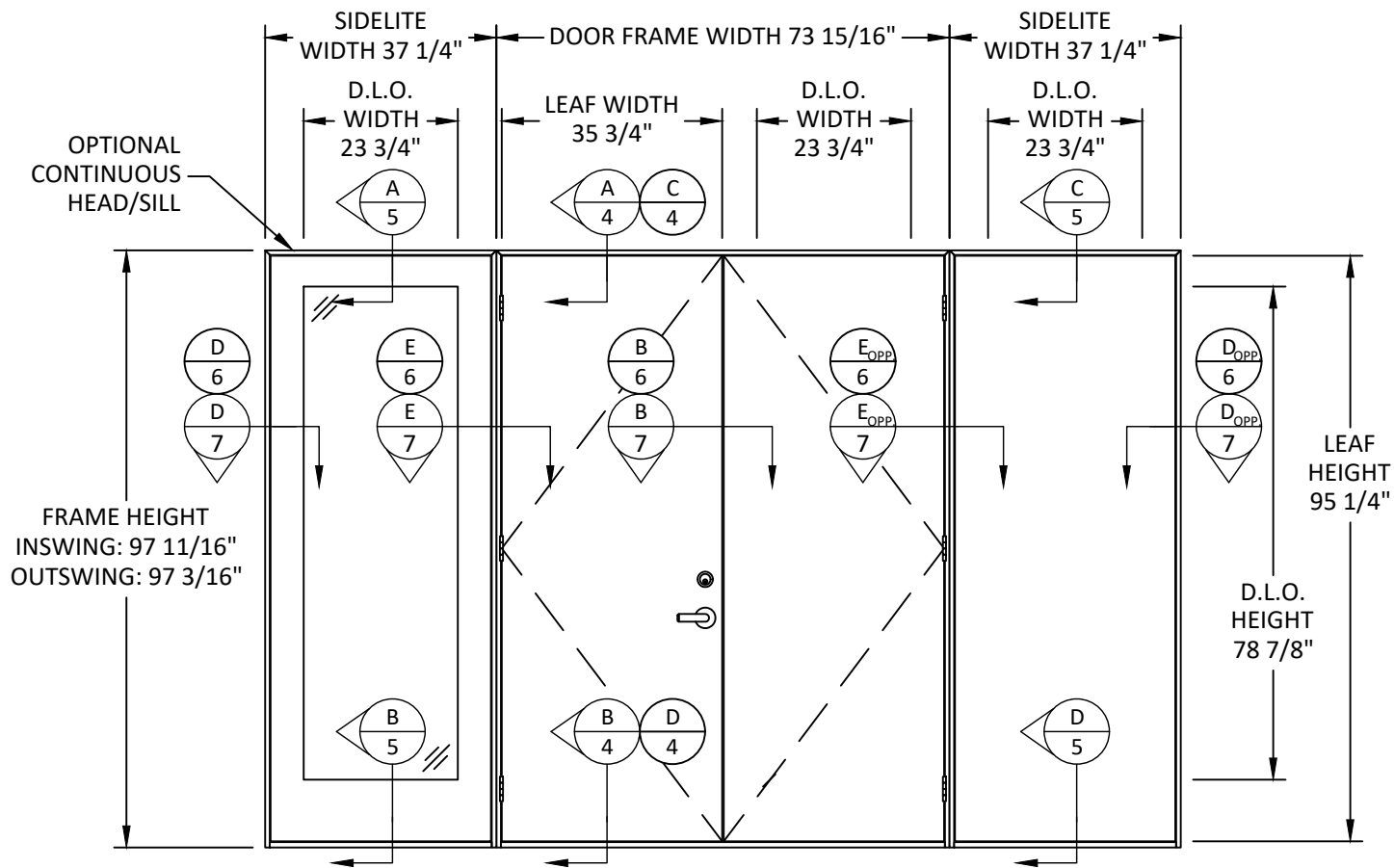
OF 8



**TYPICAL ELEVATION**  
SINGLE DOOR, INSWING/OUTSWING



**TYPICAL ELEVATION**  
DOUBLE DOOR, INSWING/OUTSWING



**TYPICAL ELEVATION**  
INSWING/OUTSWING W/ SIDELITES  
DOUBLE DOOR SHOWN, SINGLE DOOR SIMILAR

NOTE: EMBOSSED PANELS ARE  
QUALIFIED, SEE MANUFACTURER'S  
INSTRUCTIONS FOR QUALIFIED SHAPES.



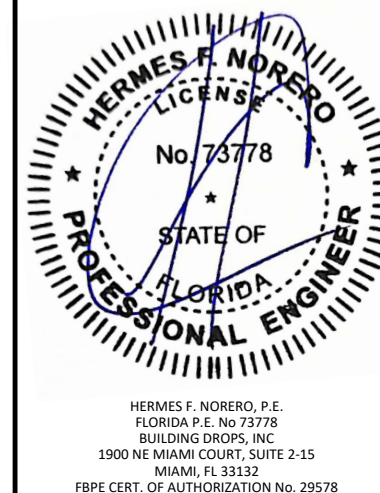
CROSSWATER BUILDING MATERIALS LLC  
8341 EPICENTER BLVD.  
LAKELAND, FL 33809  
PH: (813) 310-7345

TITLE: OPAQUE DOOR  
(W23) (IMPACT)  
TYPICAL ELEVATIONS

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BUILDING DROPS, INC.  
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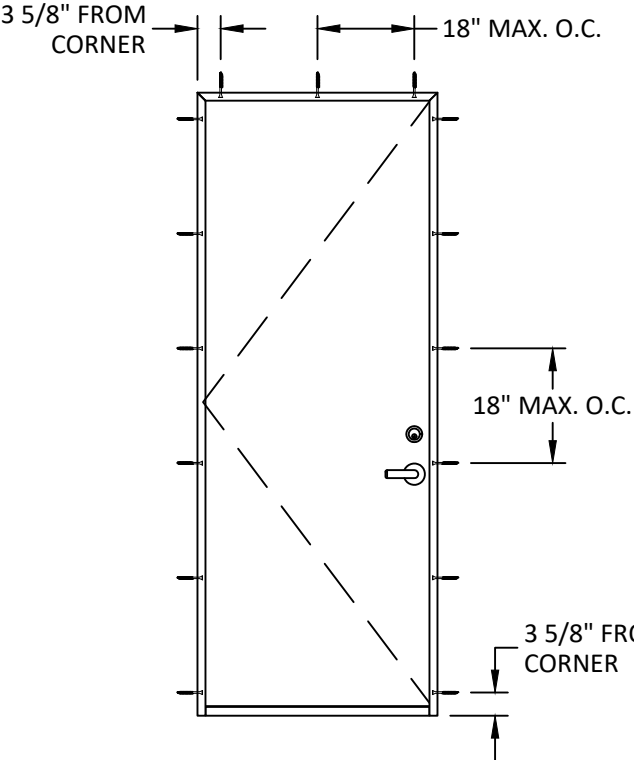
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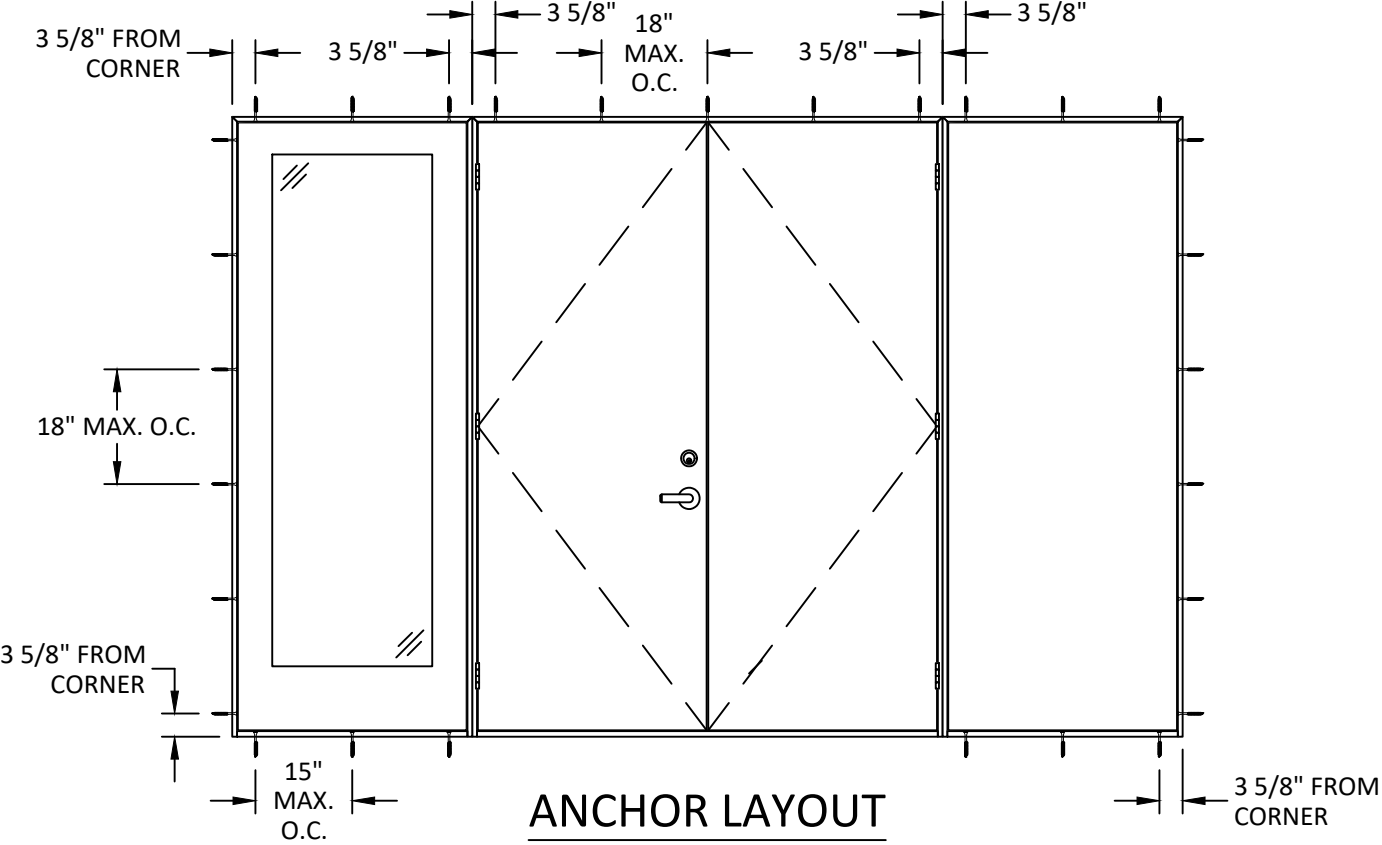
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| DATE:    | 09.30.2026 |
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| CHK. BY: | HFN        |
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| DWG. #:  | CBM006     |
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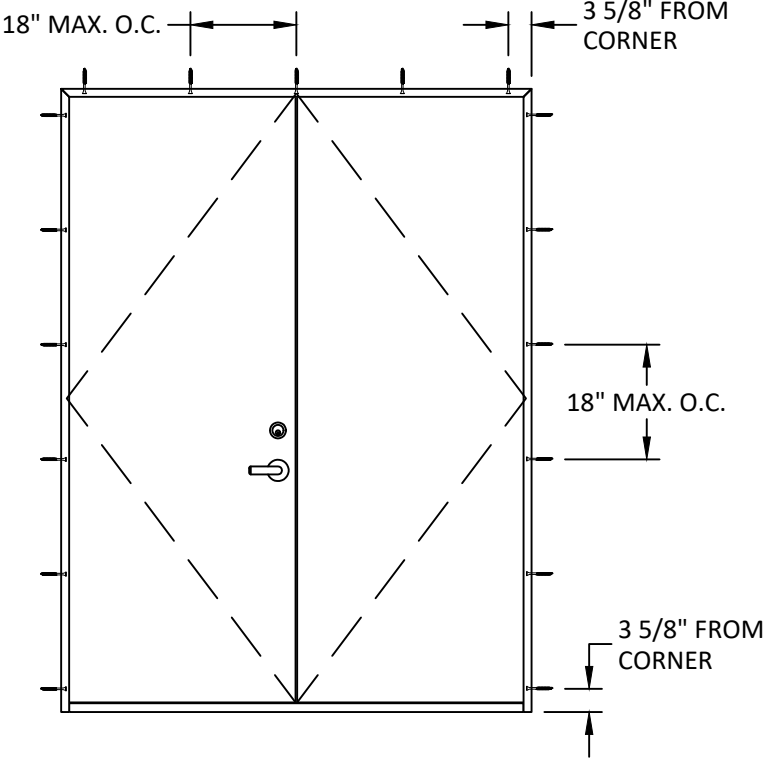
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ANCHOR LAYOUT  
SINGLE DOOR, INSWING/OUTSWING



ANCHOR LAYOUT  
INSWING/OUTSWING W/ SIDELITES  
DOUBLE DOOR SHOWN, SINGLE DOOR SIMILAR



ANCHOR LAYOUT  
DOUBLE DOOR, INSWING/OUTSWING



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LAKELAND, FL 33809  
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TITLE:  
  
OPAQUE DOOR  
(WZ3) (IMPACT)  
  
ANCHOR LAYOUTS

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1900 NE MIAMI COURT, SUITE 2-15  
MIAMI, FL 33132  
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL48503**

DATE: **09.30.2026**

DWG. BY: **MS**      CHK. BY: **HFN**

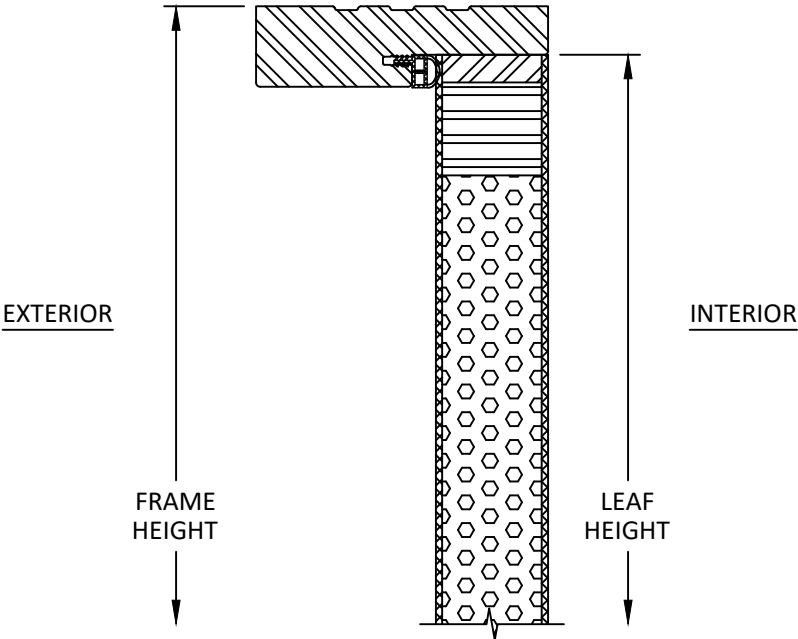
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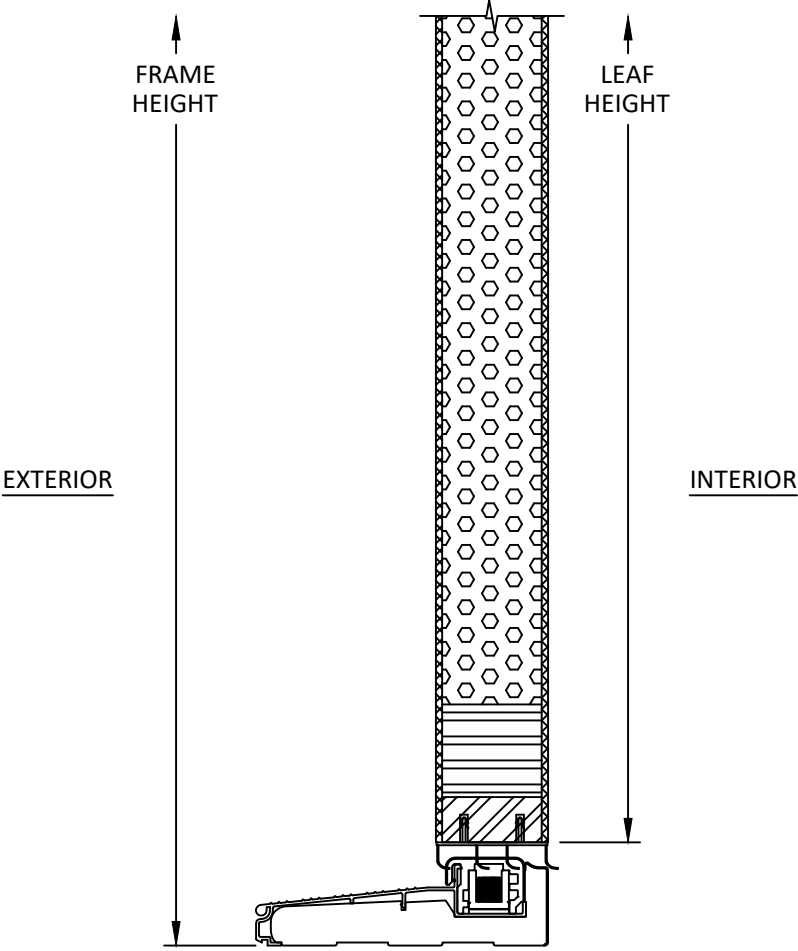
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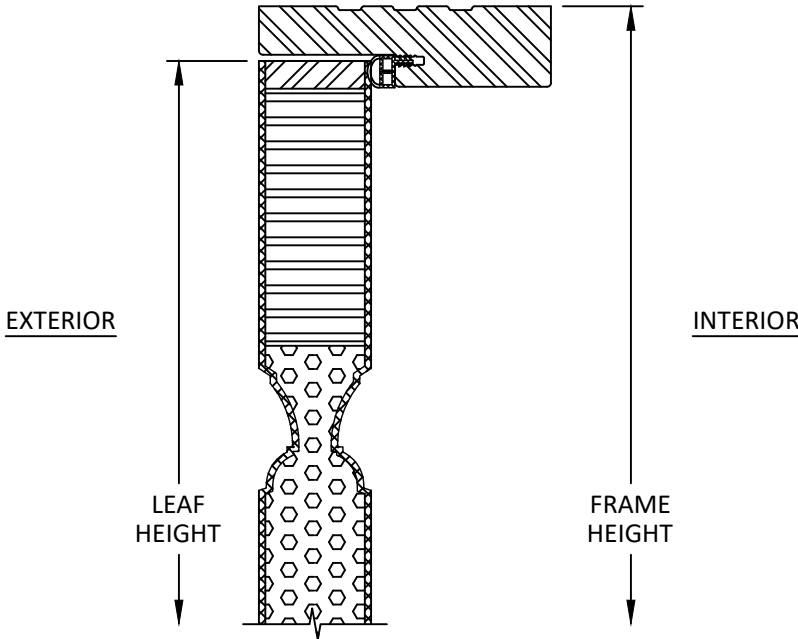
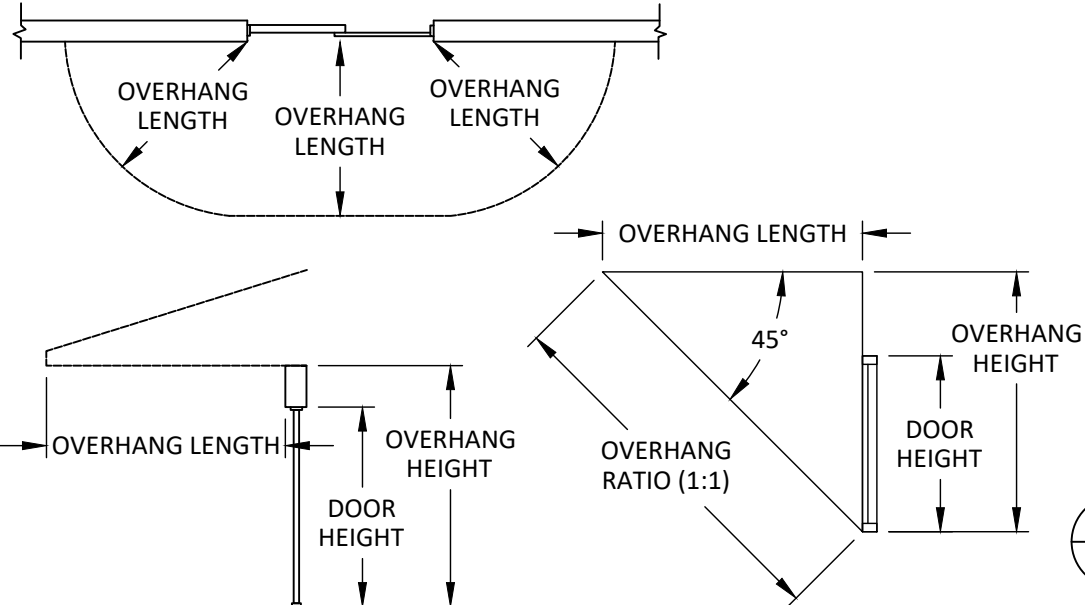
**A**  
**4** VERTICAL SECTION  
INSWING DOOR HEAD  
FLUSH LEAF SHOWN, EMBOSSED LEAF SIMILAR



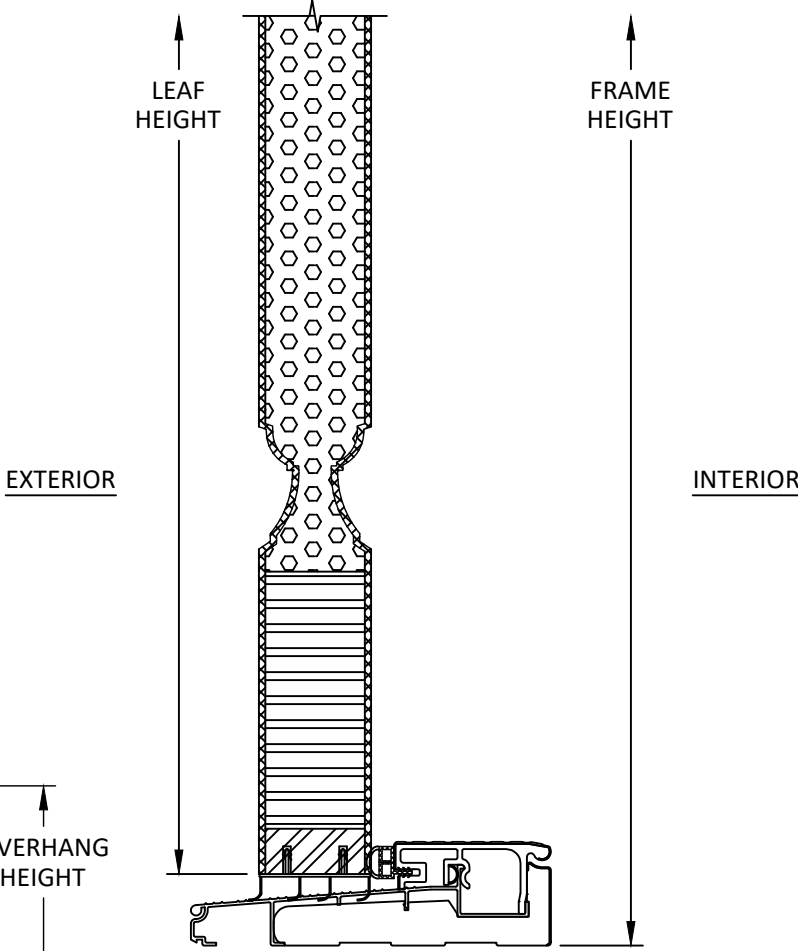
**B**  
**4** VERTICAL SECTION  
INSWING DOOR SILL  
NOT RATED FOR WATER INFILTRATION  
FLUSH LEAF SHOWN, EMBOSSED LEAF SIMILAR

NOTE:  
4-9/16" FRAME SHOWN, ALTERNATE FRAMES  
WITH LARGER DEPTHS ARE ALSO QUALIFIED, SEE  
MANUFACTURER'S INFORMATION FOR DETAILS.

\* INSWING DOOR HAS BEEN TESTED FOR WATER INFILTRATION  
AT 0 PSF. WHEN INSTALLED AT A LOCATION PROTECTED BY AN  
OVERHANG SUCH THAT:  
$$\text{OVERHANG (OH) RATIO} = \frac{\text{OH LENGTH}}{\text{OH HEIGHT}} \geq 1.0$$
  
OR IN NONHABITABLE AREAS WHERE DOOR ASSEMBLY AND AREA  
ARE DESIGNED TO ACCEPT WATER INFILTRATION, THE INSWING  
DOOR IS NOT LIMITED BY THE WATER INFILTRATION PRESSURE.



**C**  
**4** VERTICAL SECTION  
OUTSWING DOOR HEAD  
EMBOSSED LEAF SHOWN, FLUSH LEAF SIMILAR



**D**  
**4** VERTICAL SECTION  
OUTSWING DOOR SILL  
EMBOSSED LEAF SHOWN, FLUSH LEAF SIMILAR



CROSSWATER BUILDING MATERIALS LLC  
8341 EPICENTER BLVD.  
LAKELAND, FL 33809  
PH: (813) 310-7345

TITLE: OPAQUE DOOR (WZ3) (IMPACT) VERTICAL SECTIONS

PREPARED BY: BUILDING DROPS, INC.  
1900 NE MIAMI COURT, SUITE 2-15  
MIAMI, FL 33132  
PH: (954) 399-8478  
FAX: (954) 744-4738  
WEB: www.buildingdrops.com

**BD**  
BUILDING DROPS

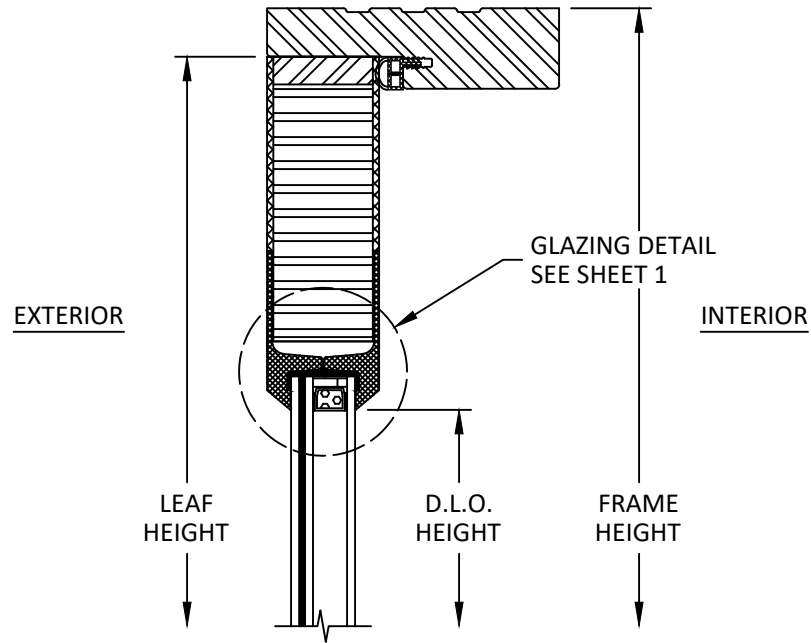
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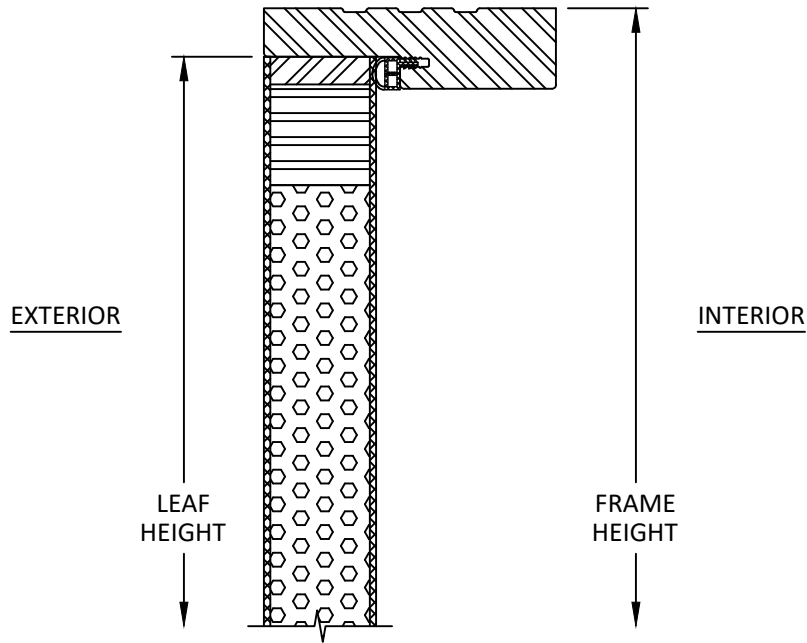
HERMES F. NORERO  
LICENSE  
No. 73778  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.  
FLORIDA P.E. No. 73778  
BUILDING DROPS, INC  
1900 NE MIAMI COURT, SUITE 2-15  
MIAMI, FL 33132  
FBPE CERT. OF AUTHORIZATION No. 29578

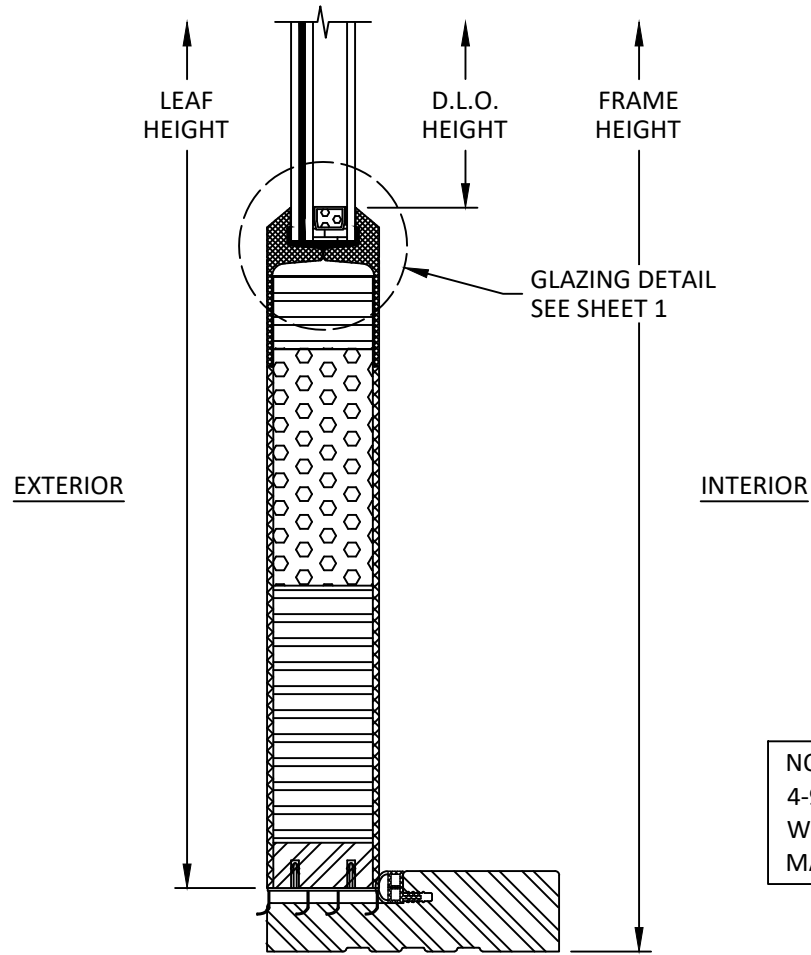
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| DATE:    | 09.30.2026 |
| DWG. BY: | MS         |
| CHK. BY: | HFN        |
| SCALE:   | NTS        |
| DWG. #:  | CBM006     |
| SHEET:   | 4          |
| REV.     | 0          |



**A**  
**5** VERTICAL SECTION  
SIDELITE HEAD

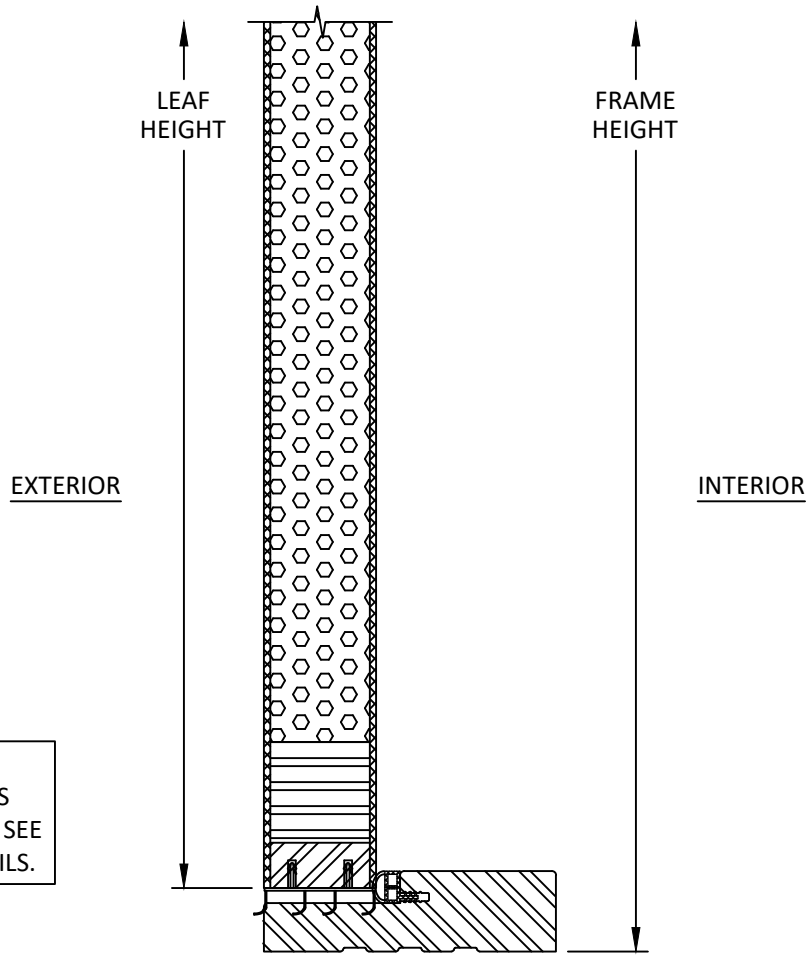


**A**  
**5** VERTICAL SECTION  
SIDELITE HEAD  
FLUSH LEAF SHOWN, EMBOSSED LEAF SIMILAR



**B**  
**5** VERTICAL SECTION  
SIDELITE SILL

NOTE:  
4-9/16" FRAME SHOWN, ALTERNATE FRAMES  
WITH LARGER DEPTHS ARE ALSO QUALIFIED, SEE  
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**B**  
**5** VERTICAL SECTION  
SIDELITE SILL  
FLUSH LEAF SHOWN, EMBOSSED LEAF SIMILAR



CROSSWATER BUILDING MATERIALS LLC  
8341 EPICENTER BLVD.  
LAKELAND, FL 33809  
PH: (813) 310-7345

TITLE:  
OPAQUE DOOR  
(WZ3) (IMPACT)  
VERTICAL SECTIONS

PREPARED BY:  
BUILDING DROPS, INC.  
1900 NE MIAMI COURT, SUITE 2-15  
MIAMI, FL 33132  
PH: (954) 399-8478  
FAX: (954) 744-4738  
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1900 NE MIAMI COURT, SUITE 2-15  
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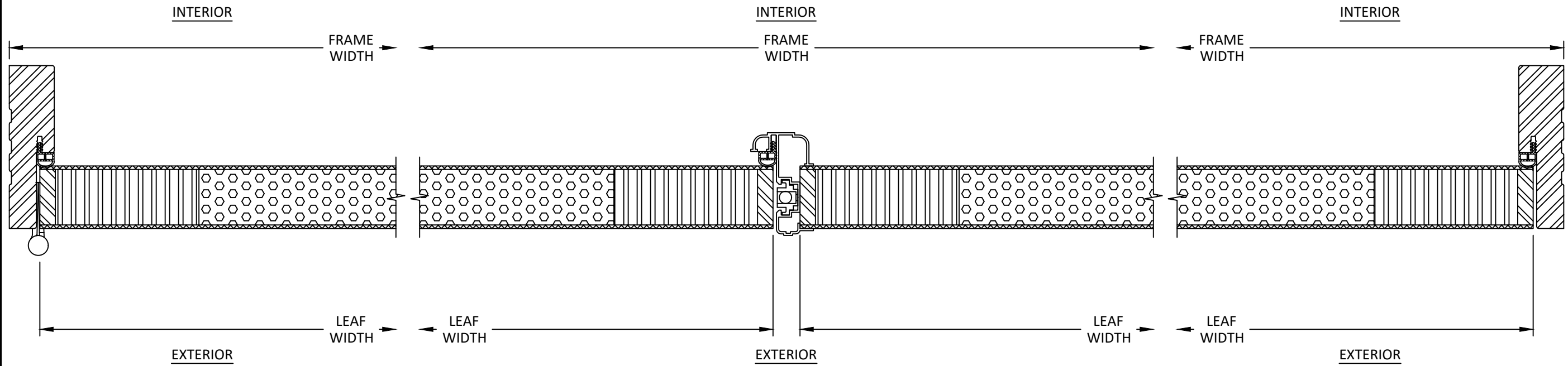
DWG. BY: **MS**      CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **CBM006**

SHEET: **5**      REV. **0**

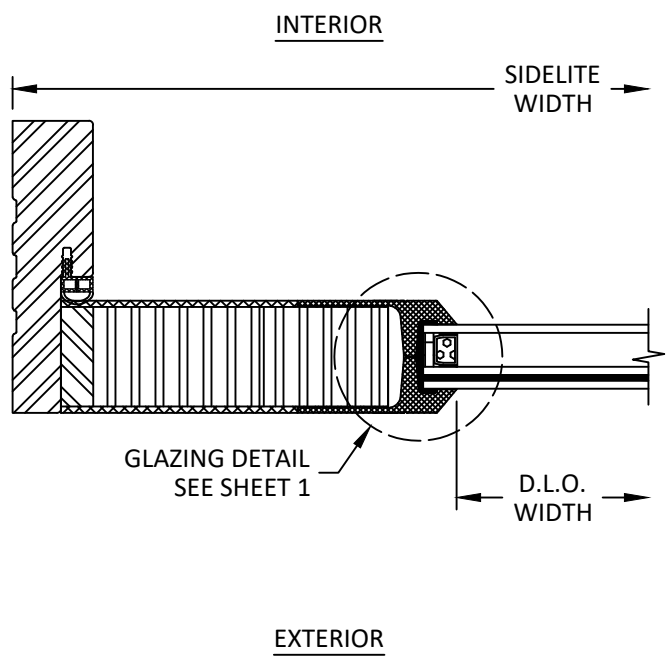
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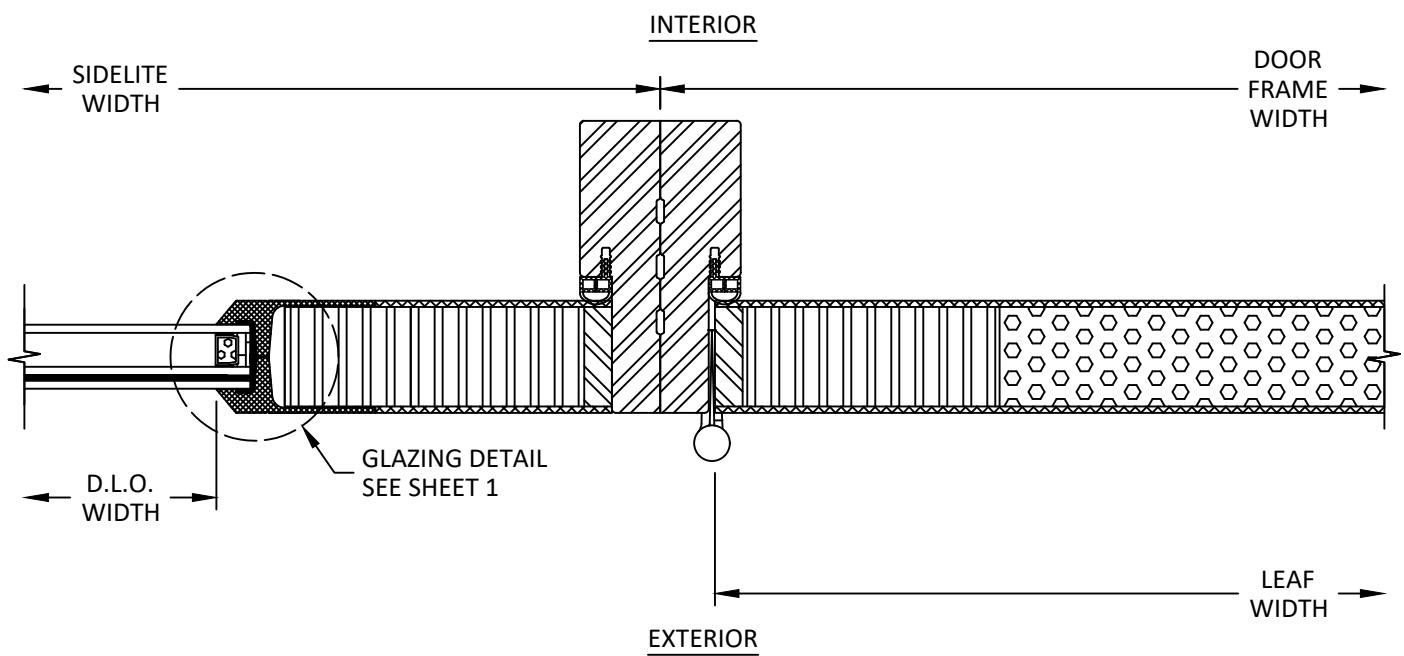
**A**  
**6** **HORIZONTAL SECTION**  
OUTSWING DOOR HINGE JAMB  
FLUSH LEAF SHOWN, EMBOSSED LEAF SIMILAR

**B**  
**6** **HORIZONTAL SECTION**  
OUTSWING MEETING STILE  
FLUSH LEAF SHOWN, EMBOSSED LEAF SIMILAR

**C**  
**6** **HORIZONTAL SECTION**  
OUTSWING DOOR LOCK JAMB  
FLUSH LEAF SHOWN, EMBOSSED LEAF SIMILAR



**D**  
**6** **HORIZONTAL SECTION**  
SIDELITE JAMB



**E**  
**6** **HORIZONTAL SECTION**  
SIDELITE TO OUTSWING DOOR MULLION  
FLUSH LEAF SHOWN, EMBOSSED LEAF SIMILAR

NOTE:  
4-9/16" FRAME SHOWN, ALTERNATE FRAMES  
WITH LARGER DEPTHS ARE ALSO QUALIFIED, SEE  
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**CROSSWATER**  
Building Materials

CROSSWATER BUILDING MATERIALS LLC  
8341 EPICENTER BLVD.  
LAKELAND, FL 33809  
PH: (813) 310-7345

TITLE:

OPAQUE DOOR  
(WZ3) (IMPACT)

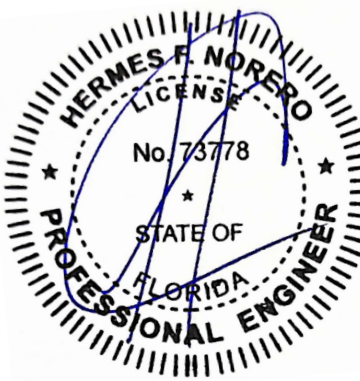
HORIZONTAL SECTIONS

PREPARED BY:

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PH: (954) 309-8478  
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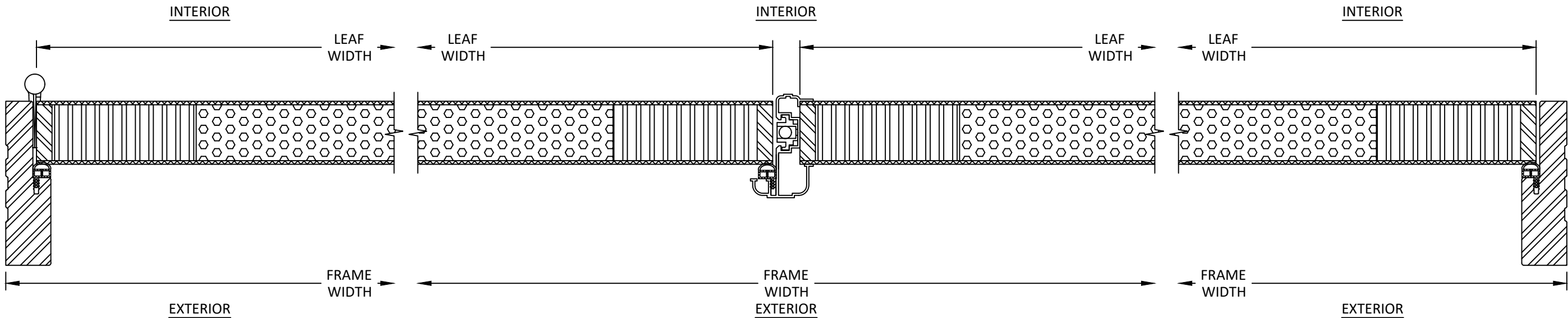
HERMES F. NORERO, P.E.  
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| CHK. BY: | <b>HFN</b>        |
| SCALE:   | <b>NTS</b>        |
| DWG. #:  | <b>CBM006</b>     |
| SHEET:   | <b>6</b>          |
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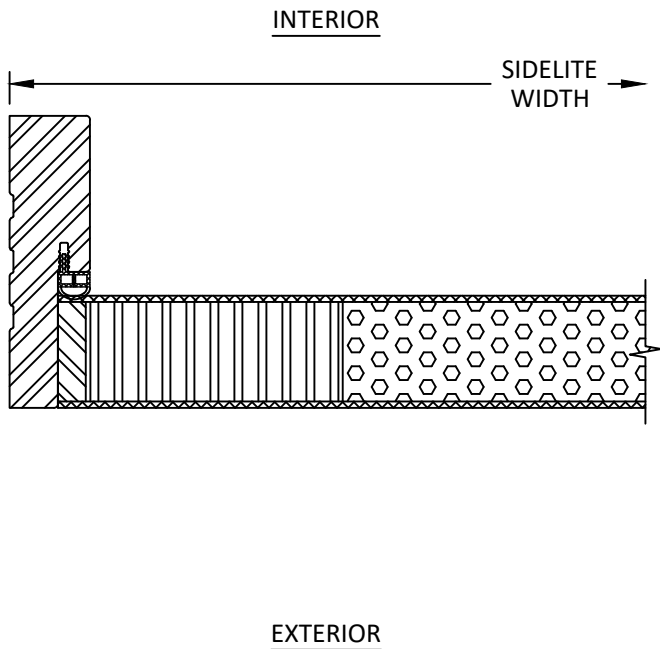
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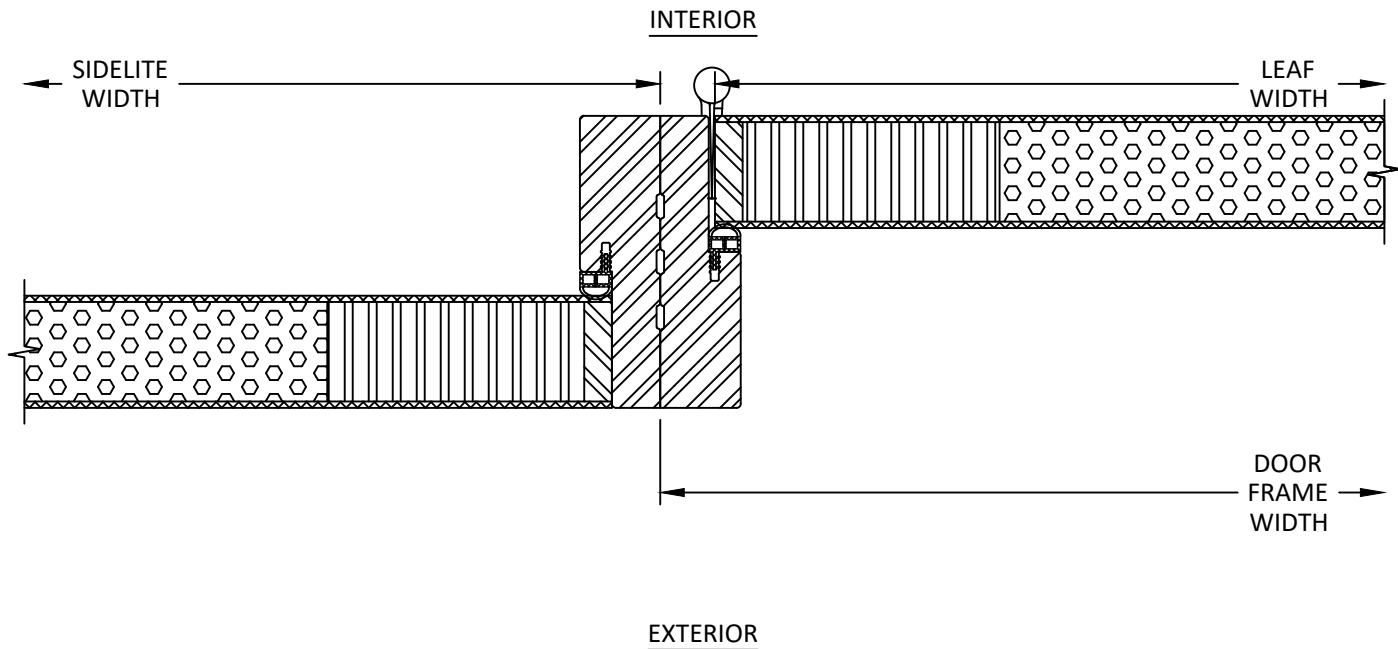
**A**  
**7** **HORIZONTAL SECTION**  
INSWING DOOR HINGE JAMB  
FLUSH LEAF SHOWN, EMBOSSED LEAF SIMILAR

**B**  
**7** **HORIZONTAL SECTION**  
INSWING MEETING STILE  
FLUSH LEAF SHOWN, EMBOSSED LEAF SIMILAR

**C**  
**7** **HORIZONTAL SECTION**  
INSWING DOOR LOCK JAMB  
FLUSH LEAF SHOWN, EMBOSSED LEAF SIMILAR



**D**  
**7** **HORIZONTAL SECTION**  
SIDELITE JAMB  
FLUSH LEAF SHOWN, EMBOSSED LEAF SIMILAR



**E**  
**7** **HORIZONTAL SECTION**  
SIDELITE TO INSWING DOOR MULLION  
FLUSH LEAF SHOWN, EMBOSSED LEAF SIMILAR

NOTE:  
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TITLE:  
OPAQUE DOOR  
(WZ3) (IMPACT)

HORIZONTAL SECTIONS

PREPARED BY:

**BUILDING DROPS**

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1900 NE MIAMI COURT, SUITE 2-15  
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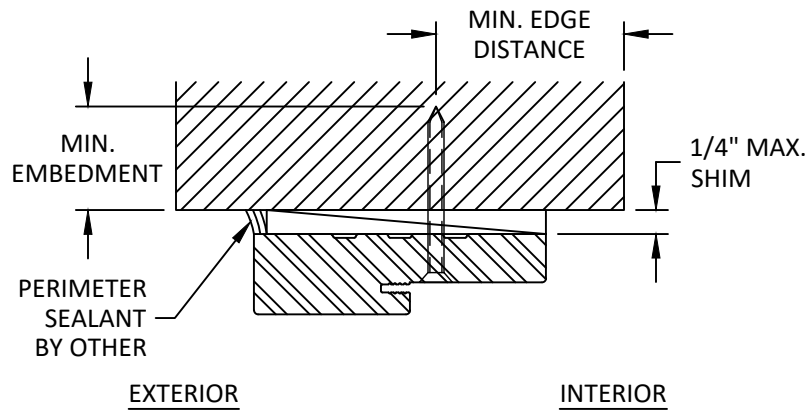
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC  
AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC  
SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE  
FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED  
ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC  
DOCUMENTS FOR USE WITH THIS DOCUMENT.

HERMES F. NORERO, P.E.  
FLORIDA P.E. No. 73778  
BUILDING DROPS, INC  
1900 NE MIAMI COURT, SUITE 2-15  
MIAMI, FL 33132  
FBPE CERT. OF AUTHORIZATION No. 29578

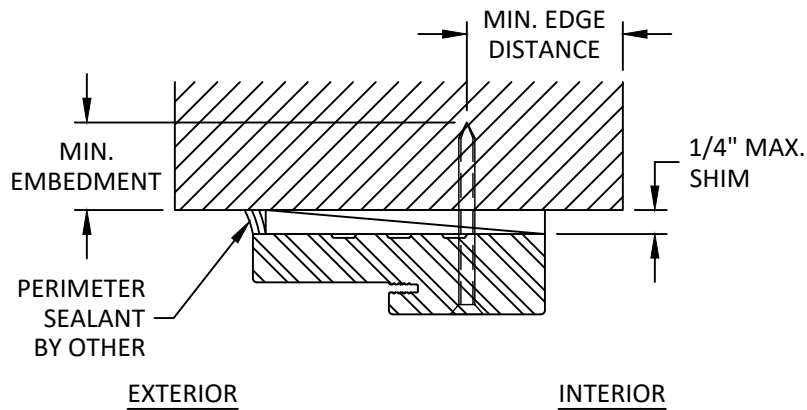
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| FL #:    | FL48503    |              |
| DATE:    | 09.30.2026 |              |
| DWG. BY: | MS         | CHK. BY: HFN |
| SCALE:   | NTS        |              |
| DWG. #:  | CBM006     |              |
| SHEET:   | 7          | REV. 0       |
| OF 8     |            |              |

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**A**  
**8** **INSTALLATION DETAIL**  
DOOR HEAD  
INSWING SHOWN, OUTSWING SIMILAR  
HEAD SHOWN, JAMB SIMILAR



**B**  
**8** **INSTALLATION DETAIL**  
SIDELITE HEAD  
HEAD SHOWN, JAMB & SILL SIMILAR

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF  $\pm 1/4$  INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF WOOD OR BETTER.
- FOR MASONRY OR CONCRETE OPENINGS, A 1X WOOD BUCK MAY BE USED (OPTIONAL) AS LONG AS THE MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS ARE STILL MET WITHIN THE CORRESPONDING HOST SUBSTRATE. SEE GENERAL NOTE #3 ON SHEET 1 FOR MORE INFORMATION.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
  - FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).
  - CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- 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 BY THE ANCHOR MANUFACTURER.

| ANCHOR SCHEDULE                               |                                                      |                                              |                    |
|-----------------------------------------------|------------------------------------------------------|----------------------------------------------|--------------------|
| SUBSTRATE                                     | ANCHOR TYPE                                          | MIN. EMBEDMENT                               | MIN. EDGE DISTANCE |
| WOOD:<br>MIN. S.G. = 0.55                     | #14 WOOD SCREW                                       | 1-1/2"                                       | 1"                 |
| STEEL:<br>MIN. 18 GA.<br>MIN. Fy = 33 ksi     | 1/4" GRADE 5<br>SELF-DRILLING/<br>SELF-TAPPING SCREW | 3 THREADS MIN<br>PENETRATION BEYOND<br>METAL | 1/2"               |
| ALUMINUM:<br>MIN. 1/8" THICK<br>MIN. 6063-T5  |                                                      |                                              |                    |
| CONCRETE:<br>MIN. f'c = 3000 psi              | 1/4" ITW TAPCON                                      | 1-1/2"                                       | 1-5/8"             |
| MASONRY:<br>CMU per ASTM C90<br>MIN. 2000 PSI |                                                      | 1"                                           | 2-1/2"             |



CROSSWATER BUILDING MATERIALS LLC  
8341 EPICENTER BLVD.  
LAKELAND, FL 33809  
PH: (813) 310-7345

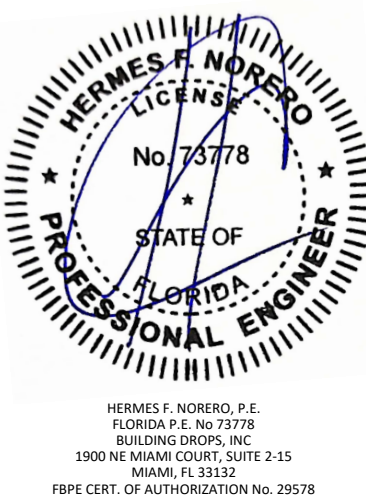
TITLE: OPAQUE DOOR  
(W23) (IMPACT)  
INSTALLATION DETAILS & NOTES

PREPARED BY:  
BUILDING DROPS, INC.  
1900 NE MIAMI COURT, SUITE 2-15  
MIAMI, FL 33132  
PH: (954) 399-8478  
FAX: (954) 744-4738  
WEB: www.buildingdrops.com



| REMARKS | BY | DATE |
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|-----------------------|------------------------|

SCALE: **NTS**

DWG. #: **CBM006**

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| SHEET:<br><b>8</b> | REV.<br><b>0</b> |
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OF 8