

# ARCADIA CUSTOM

## TSX5000 & TSX5200 OUTSWING DOOR

### (WZ3)(IMPACT)

GENERAL NOTES:

1.

THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - AAMA/WDMA/CSA 101/I.S.2/A440-11
  - ASTM E1886-13a
  - ASTM E1996-23
2.

ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING, AND METAL 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.
3.

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.
4.

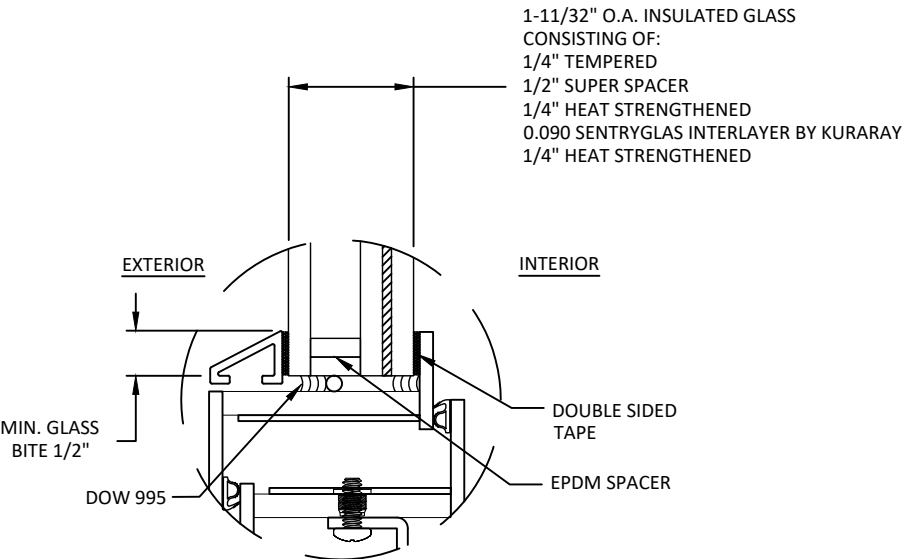
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN NON-HVHZ AREAS.
5.

APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN WIND ZONES 3 OR LESS.
6.

APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN WIND ZONES 4.
7.

FRAME MATERIAL: STAINLESS STEEL
8.

GLASS MEETS THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAIL.



- GLAZING NOTES:
1.

GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC.
2.

SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
3.

SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.

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| SHEET             | SHEET DESCRIPTION                             |
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|                                |                                |                       |
|--------------------------------|--------------------------------|-----------------------|
| MAX OVERALL SIZE               | DESIGN PRESSURE                | MISSILE IMPACT RATING |
| SEE PRESSURE TABLE ON PAGE 2-3 | SEE PRESSURE TABLE ON PAGE 2-3 | LMI/SMI               |

arcadia

®CUSTOM

ARCADIA CUSTOM  
9280 E OLD VAIL RD,  
TUCSON, AZ 85747  
PH: (520) 284-2061    FX: (520) 349-1964

TITLE:

TSX5000 & TSX5200  
OUTSWING DOOR  
(WZ3)(IMPACT)

GENERAL NOTES & GLAZING DETAIL

PREPARED BY:

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

BD

BUILDING DROPS

| REMARKS          | BY | DATE  |
|------------------|----|-------|
| ANCHOR UPDATES   | MG | 06/23 |
| SECTION UPDATES  | DI | 08/25 |
| 2026 CODE CHANGE | HJ | 03/26 |
|                  |    |       |

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Digitally signed by Hermes F. Norero, P.E.  
Reason: I am approving this document  
Date: 2026.10.05 17:51:49 -07'00'

HERMES F. NORERO

LICENSE

No. 73778

STATE OF FLORIDA

PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.

BUILDING DROPS, INC.

1900 NE MIAMI COURT # 2-15

MIAMI, FL 33132

FBPE CERT. OF AUTHORIZATION No. 29578

FL#:

FL32366

DATE:

05/05/2020

DWG. BY:

YC

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

ACWD005

SHEET:

1

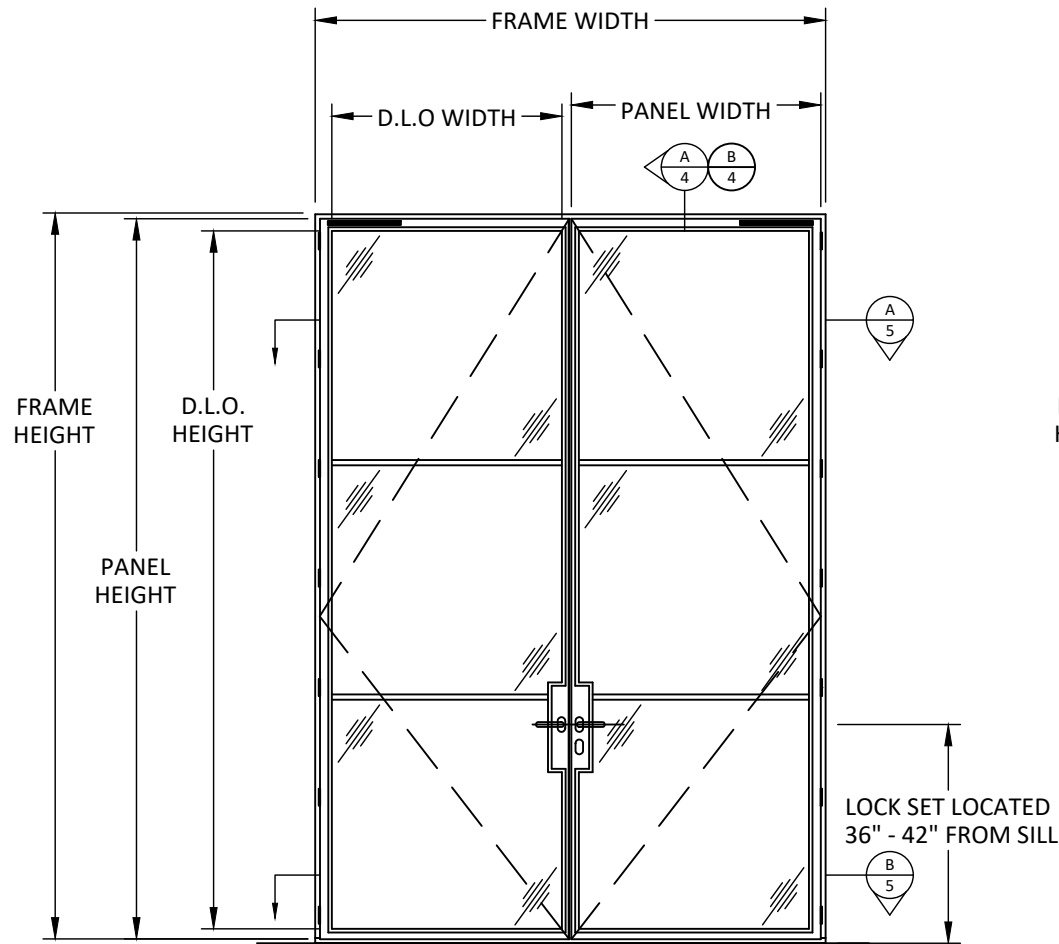
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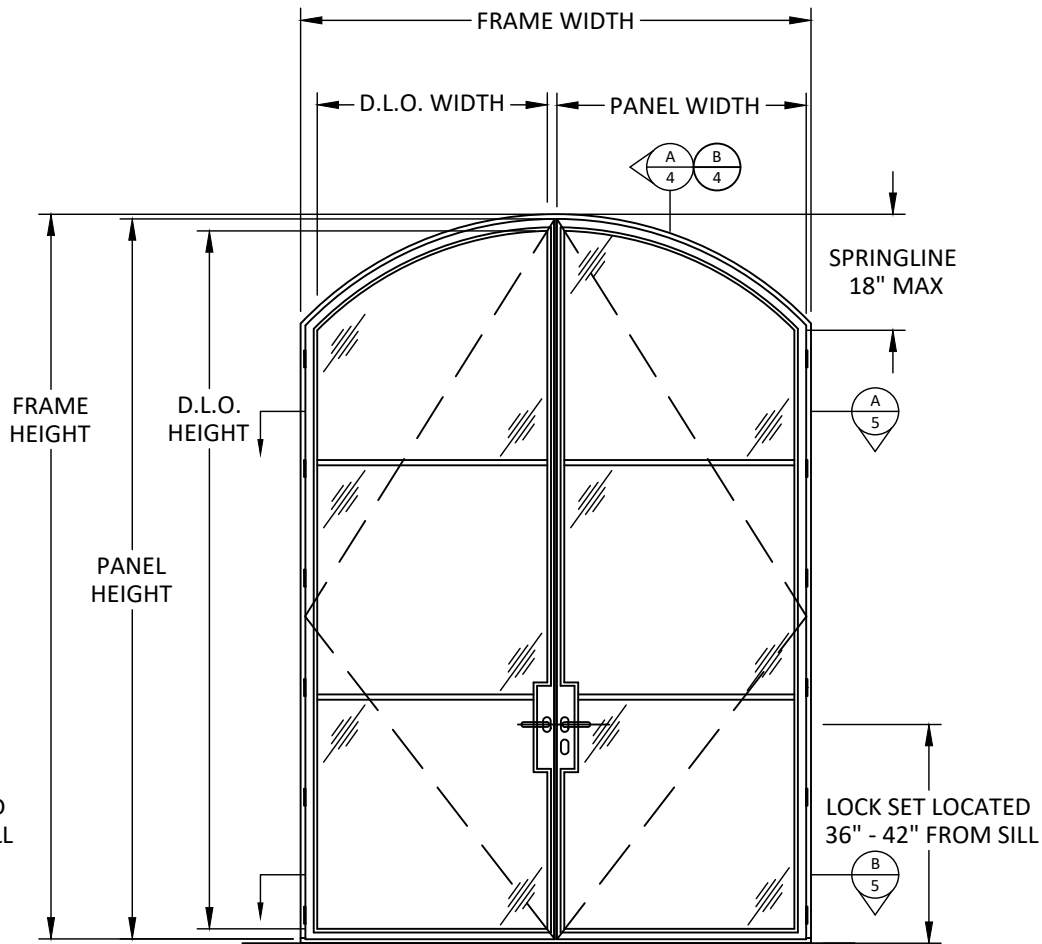
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### ELEVATION

OUTSWING STEEL DOOR  
EXTERIOR VIEW



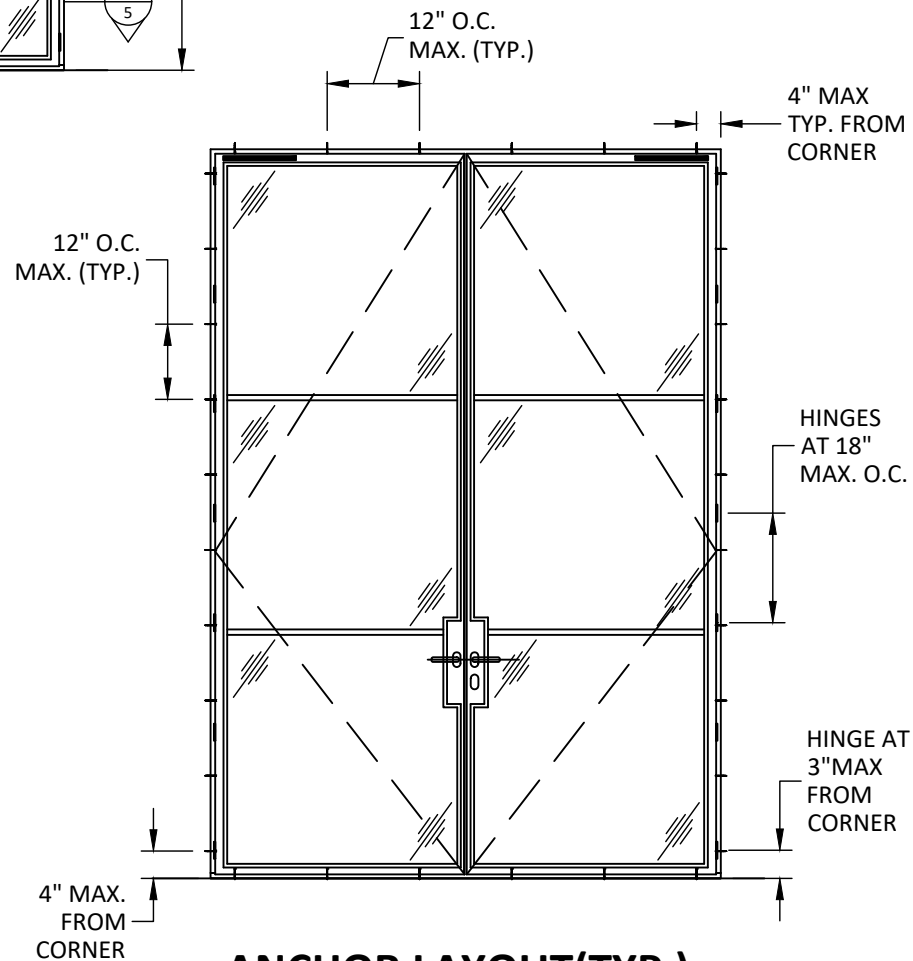
### ELEVATION

FLAT TOP ARCH  
OUTSWING STEEL DOOR  
EXTERIOR VIEW

#### NOTE:

D.L.O. HEIGHT = FRAME HEIGHT - 4.50"  
D.L.O. WIDTH = FRAME WIDTH/2 - 4.50"

| DESIGN PRESSURE TABLE (PSF) - SINGLE CONFIGURATION |                      |      |      |      |      |      |      |      |
|----------------------------------------------------|----------------------|------|------|------|------|------|------|------|
| FRAME HEIGHT (INCHES)                              | FRAME WIDTH (INCHES) |      |      |      |      |      |      |      |
|                                                    |                      | 36   | 38   | 40   | 42   | 44   | 46   | 48   |
|                                                    | 80                   | 52.5 | 49.7 | 47.3 | 45.0 | 43.0 | 41.1 | 39.4 |
|                                                    | 84                   | 52.5 | 49.7 | 47.3 | 45.0 | 43.0 | 41.1 | 39.4 |
|                                                    | 88                   | 52.5 | 49.7 | 47.3 | 45.0 | 43.0 | 41.1 | 39.4 |
|                                                    | 92                   | 52.5 | 49.7 | 47.3 | 45.0 | 43.0 | 41.1 | 39.4 |
|                                                    | 96                   | 52.5 | 49.7 | 47.3 | 45.0 | 43.0 | 41.1 | 39.4 |
|                                                    | 100                  | 52.5 | 49.7 | 47.3 | 45.0 | 43.0 | 41.1 | 39.4 |
|                                                    | 104                  | 52.3 | 49.7 | 47.3 | 45.0 | 43.0 | 41.1 | 39.4 |
|                                                    | 108                  | 51.9 | 49.7 | 47.3 | 45.0 | 43.0 | 41.1 |      |
|                                                    | 112                  | 51.6 | 49.4 | 47.3 | 45.0 | 43.0 |      |      |
|                                                    | 116                  | 51.2 | 49.0 | 47.1 | 45.0 |      |      |      |
|                                                    | 119.5                | 50.9 | 48.7 | 46.8 | 45.0 |      |      |      |
|                                                    | 124                  | 50.6 | 48.4 | 46.4 |      |      |      |      |



### ANCHOR LAYOUT(TYP.)

CLIP/THROUGH FRAME



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OUTSWING DOOR  
(WZ3)(IMPACT)

ELEVATION & ANCHOR LAYOUT

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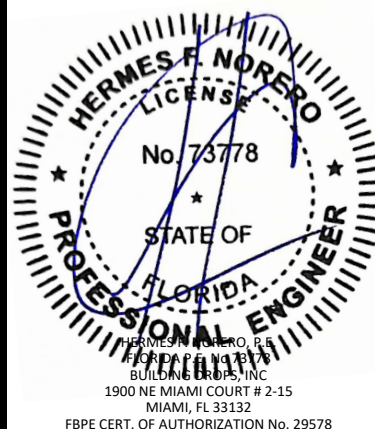
BUILDING DROPS, INC.

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| REMARKS          | BY | DATE  |
|------------------|----|-------|
| ANCHOR UPDATES   | MG | 06/23 |
| SECTION UPDATES  | DI | 08/25 |
| 2026 CODE CHANGE | HJ | 03/26 |
|                  |    |       |

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FL#:

FL32366

DATE: 05/05/2020

DWG. BY:  
YC

CHK. BY:  
HFN

SCALE: NTS

DWG. #: ACWD005

SHEET:

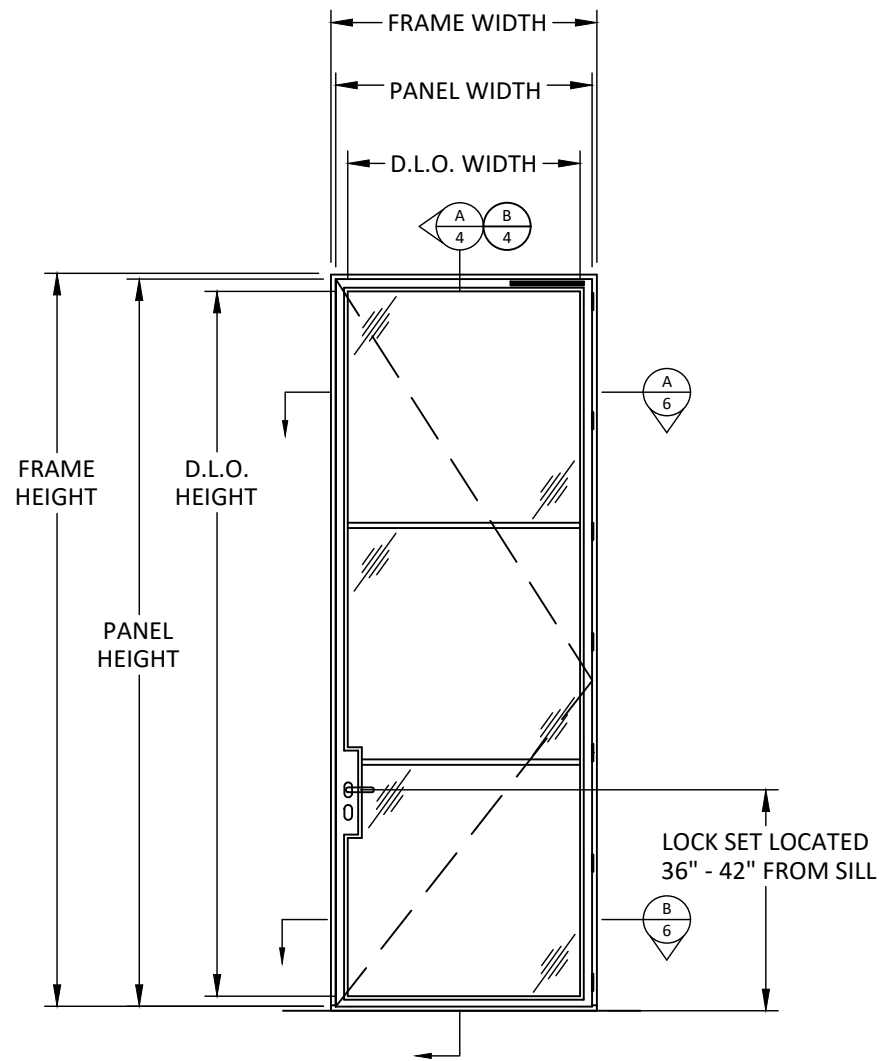
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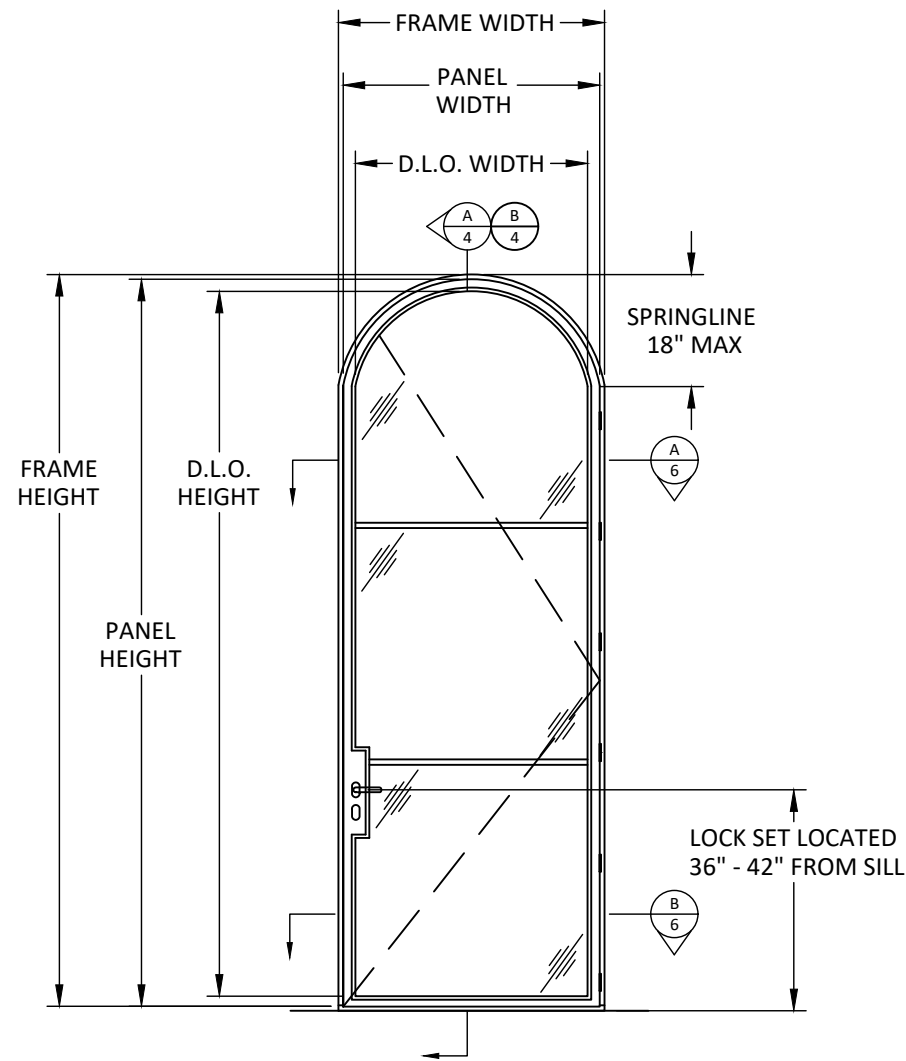
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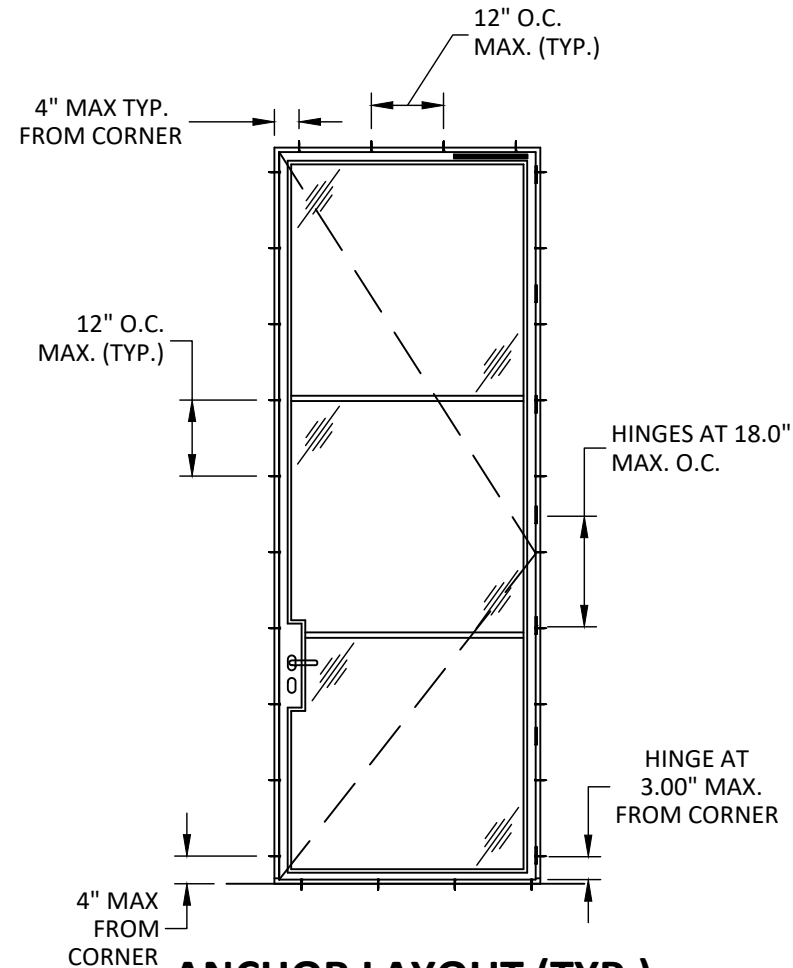
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**ELEVATION**  
OUTSWING STEEL DOOR  
EXTERIOR VIEW



**ELEVATION**  
FLAT TOP ARCH  
OUTSWING STEEL DOOR  
EXTERIOR VIEW



**ANCHOR LAYOUT (TYP.)**  
CLIP/THROUGH FRAME

**NOTE:**

D.L.O. HEIGHT = FRAME HEIGHT - 4.50"  
D.L.O. WIDTH = FRAME WIDTH - 4.50"

| DESIGN PRESSURE TABLE (PSF) - DOUBLE CONFIGURATION |       |      |      |      |      |      |      |      |
|----------------------------------------------------|-------|------|------|------|------|------|------|------|
| FRAME WIDTH (INCHES)                               |       |      |      |      |      |      |      |      |
| FRAME HEIGHT (INCHES)                              |       | 72   | 76   | 80   | 84   | 88   | 92   | 96   |
|                                                    | 80    | 52.5 | 49.7 | 47.3 | 45.0 | 43.0 | 41.1 | 39.4 |
|                                                    | 84    | 52.5 | 49.7 | 47.3 | 45.0 | 43.0 | 41.1 | 39.4 |
|                                                    | 88    | 52.5 | 49.7 | 47.3 | 45.0 | 43.0 | 41.1 | 39.4 |
|                                                    | 92    | 52.5 | 49.7 | 47.3 | 45.0 | 43.0 | 41.1 | 39.4 |
|                                                    | 96    | 52.5 | 49.7 | 47.3 | 45.0 | 43.0 | 41.1 | 39.4 |
|                                                    | 100   | 52.5 | 49.7 | 47.3 | 45.0 | 43.0 | 41.1 | 39.4 |
|                                                    | 104   | 52.3 | 49.7 | 47.3 | 45.0 | 43.0 | 41.1 | 39.4 |
|                                                    | 108   | 51.9 | 49.7 | 47.3 | 45.0 | 43.0 | 41.1 |      |
|                                                    | 112   | 51.6 | 49.4 | 47.3 | 45.0 | 43.0 |      |      |
|                                                    | 116   | 51.2 | 49.0 | 47.1 | 45.0 |      |      |      |
|                                                    | 119.5 | 50.9 | 48.7 | 46.8 | 45.0 |      |      |      |
|                                                    | 124   | 47.0 | 44.5 | 42.3 |      |      |      |      |
|                                                    | 128   | 42.7 | 40.5 |      |      |      |      |      |
|                                                    | 132   | 39.0 | 36.9 |      |      |      |      |      |
|                                                    | 136   | 35.6 |      |      |      |      |      |      |



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OUTSWING DOOR  
(WZ3)(IMPACT)  
ELEVATION & ANCHOR LAYOUT

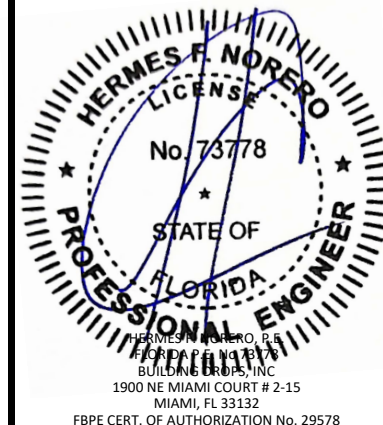
PREPARED BY: BUILDING DROPS, INC.

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| SECTION UPDATES  | DI | 08/25 |
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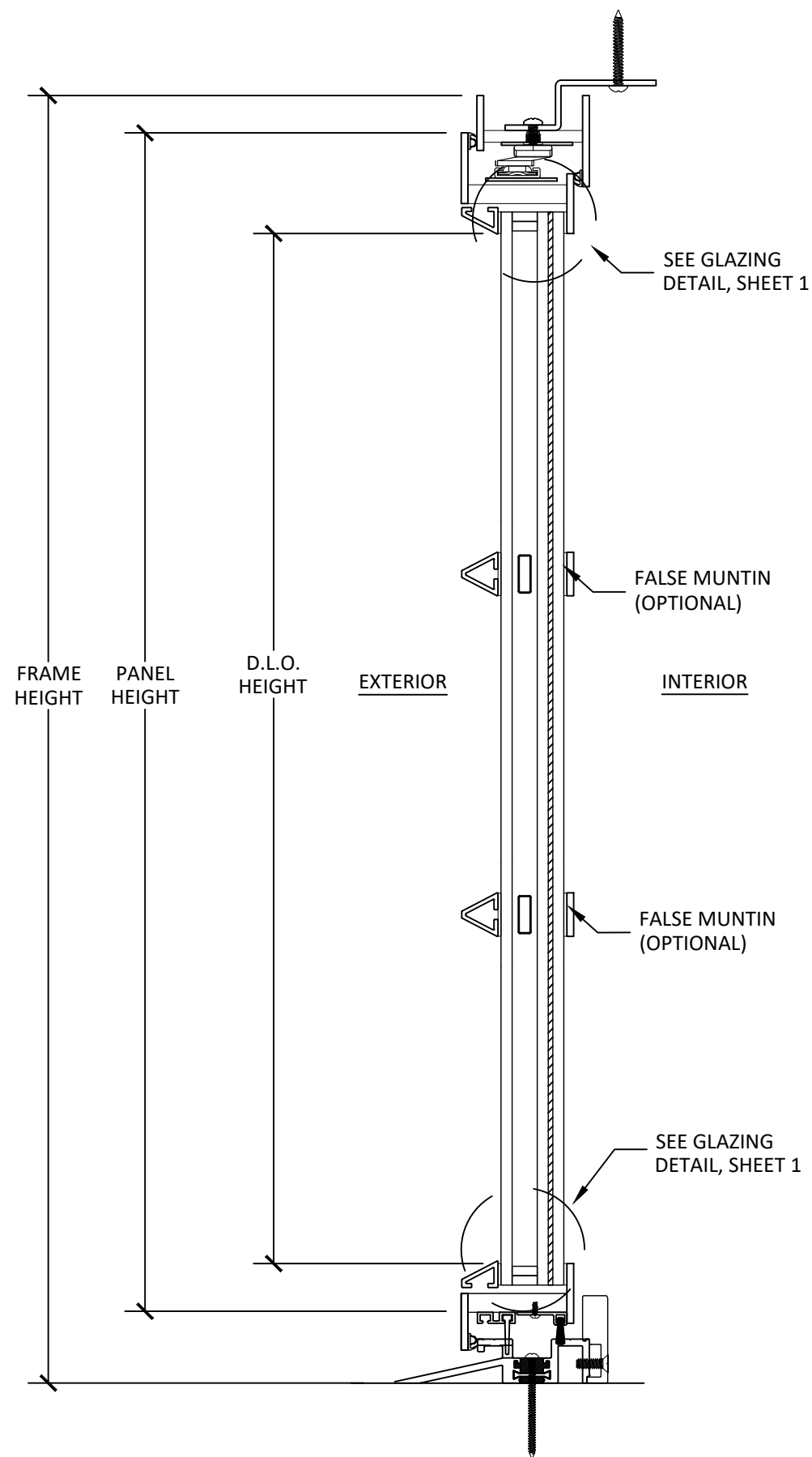
DWG. BY: YC  
CHK. BY: HFN

SCALE: NTS

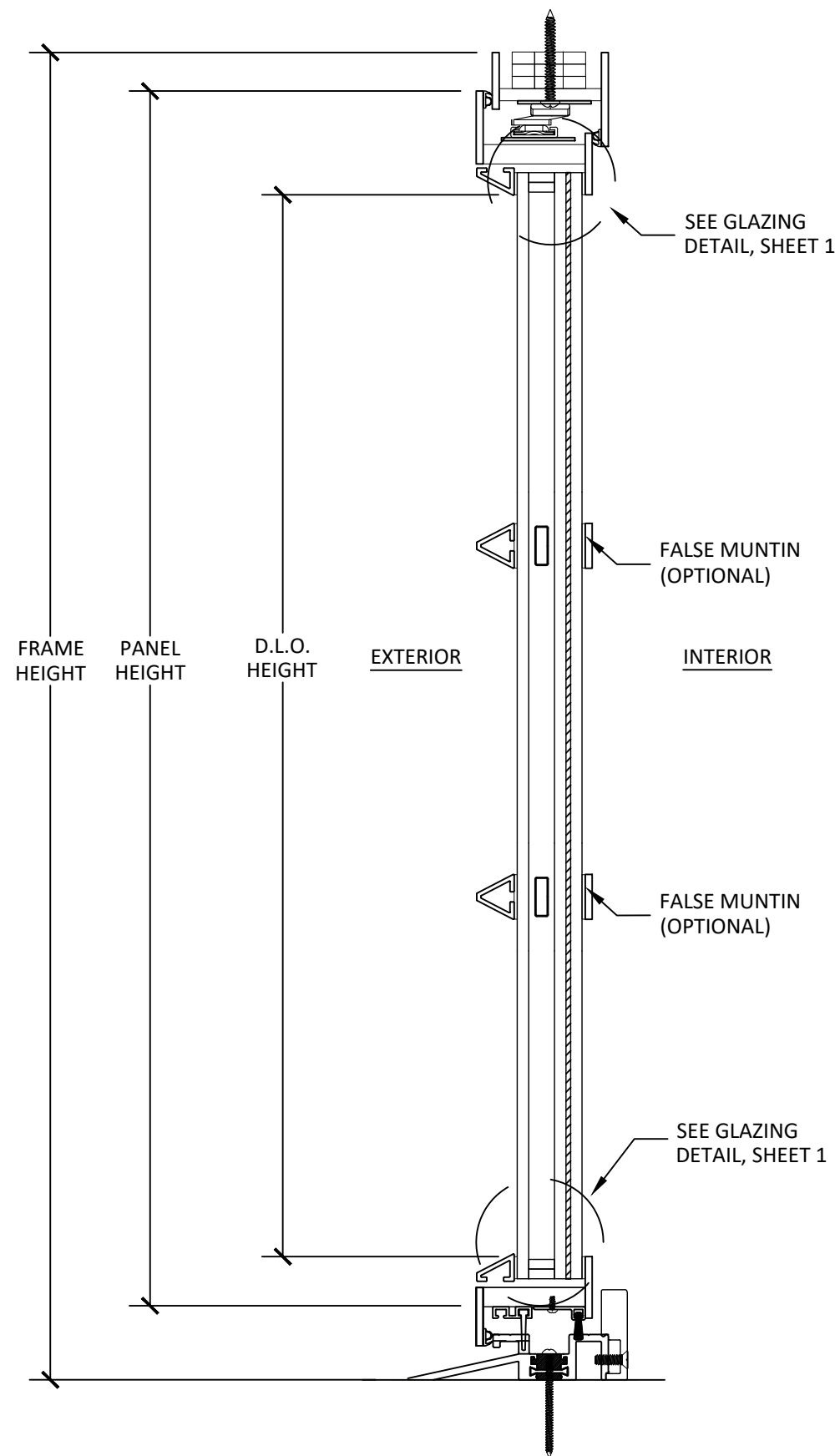
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## A 4 VERTICAL SECTION OUTSWING DOOR - STEEL CLIP AT HEAD



**B**  
**4** **VERTICAL SECTION**  
OUTSWING DOOR - THROUGH FRAME AT HEAD

TITLE: TSX5000 & TSX5200  
OUTSWING DOOR  
(WZ3)(IMPACT)  
VERTICAL SECTIONS

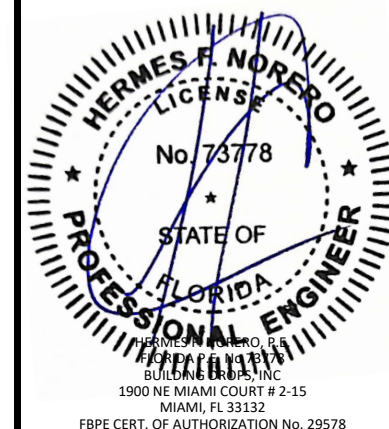
**PREPARED BY:**

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1000 NE MIAMI COURT, STE. 2-15  
MIAMI, FL 33132  
PH: (954)399-8478  
FAX: (954)744.4738  
WEB: [www.buildingdrops.com](http://www.buildingdrops.com)



| REMARKS          | BY | DATE       |
|------------------|----|------------|
| ANCHOR UPDATES   | MG | 06/23/2025 |
| SECTION UPDATES  | DI | 08/25/2025 |
| 2026 CODE CHANGE | HJ | 03/26/2026 |
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FL#:

L#: **FL32366**

DATE: 05/05/2020

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| DWG. BY:<br><b>YC</b> | CHK. BY:<br><b>HFN</b> |
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SCALE: **NTS**

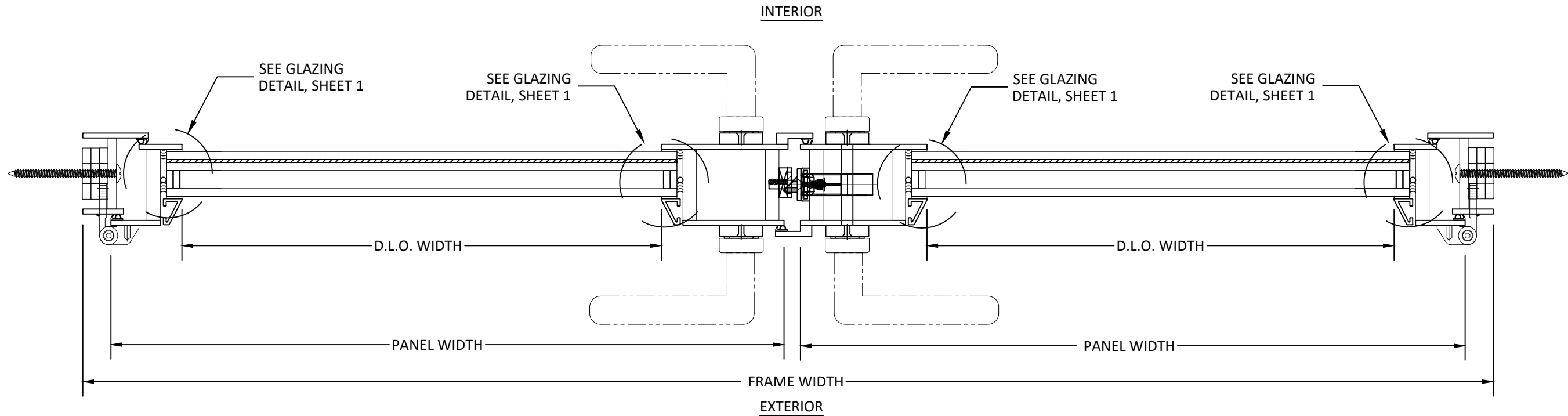
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| SHEET: | REV |
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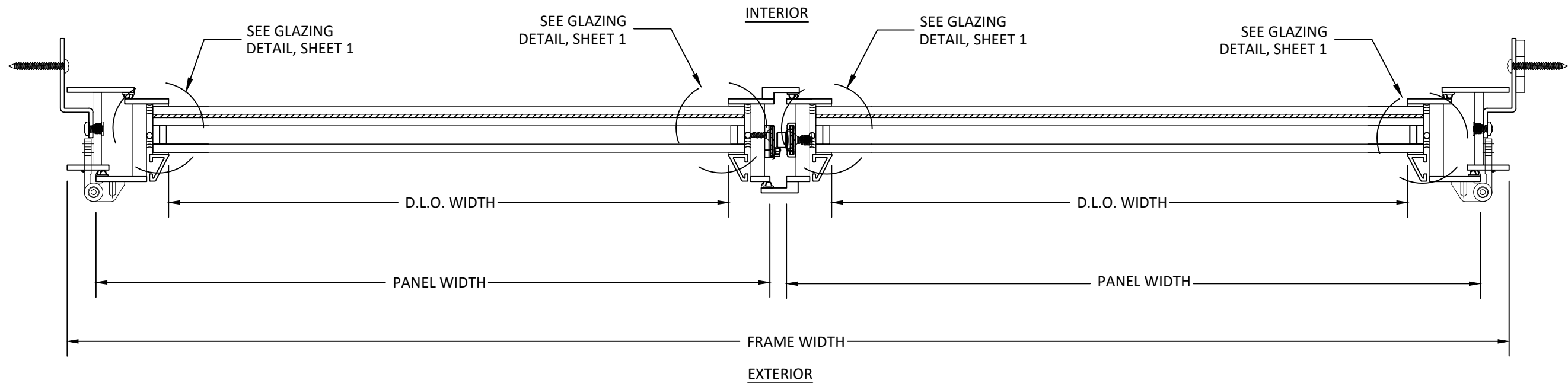
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**A**  
**5** **HORIZONTAL SECTION**  
OUTSWING STEEL DOOR- THROUGH FRAME



**B**  
**5** **HORIZONTAL SECTION**  
OUTSWING STEEL DOOR - CLIP INSTALLATION



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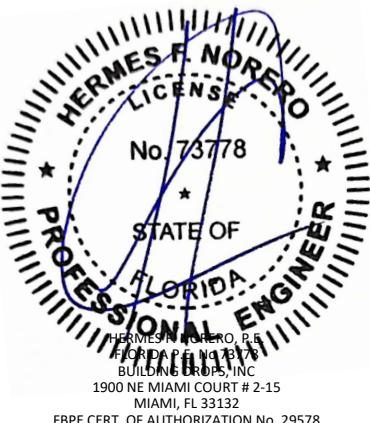
TITLE: TSX5000 & TSX5200  
OUTSWING DOOR  
(WZ3)(IMPACT)  
HORIZONTAL SECTIONS

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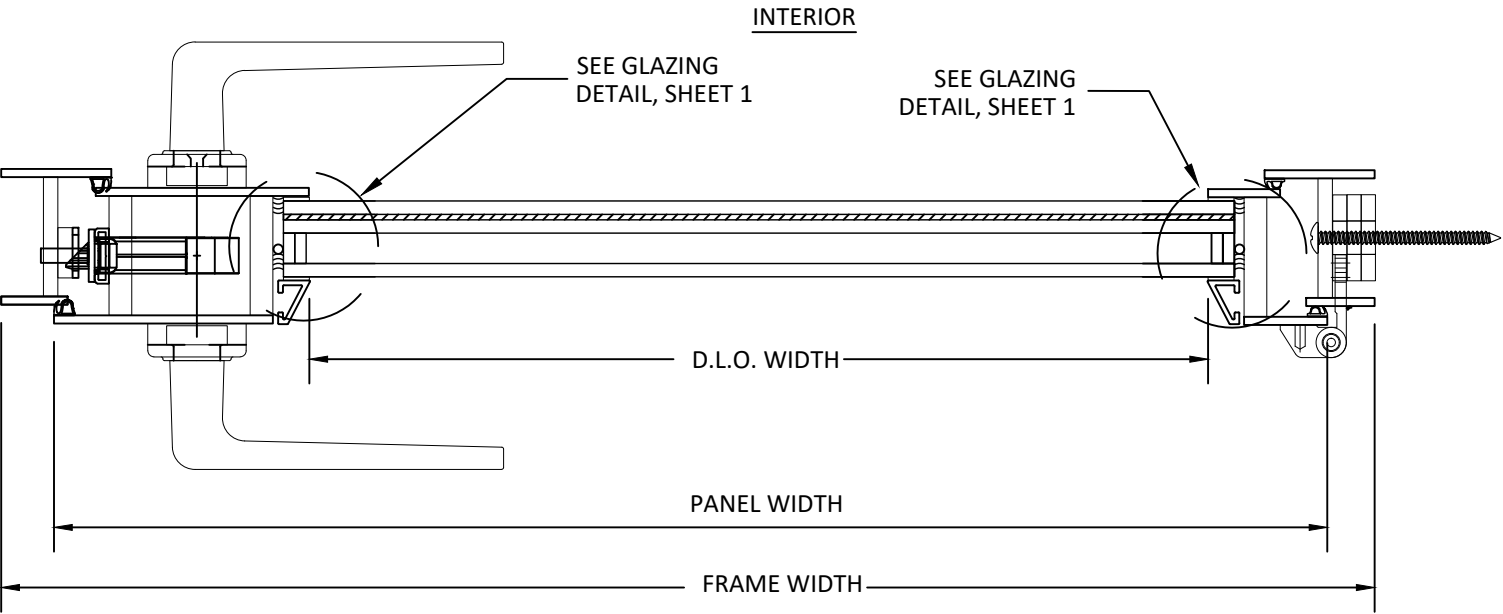
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|------------------|----|-------|
| ANCHOR UPDATES   | MG | 06/23 |
| SECTION UPDATES  | DI | 08/25 |
| 2026 CODE CHANGE | HJ | 03/26 |
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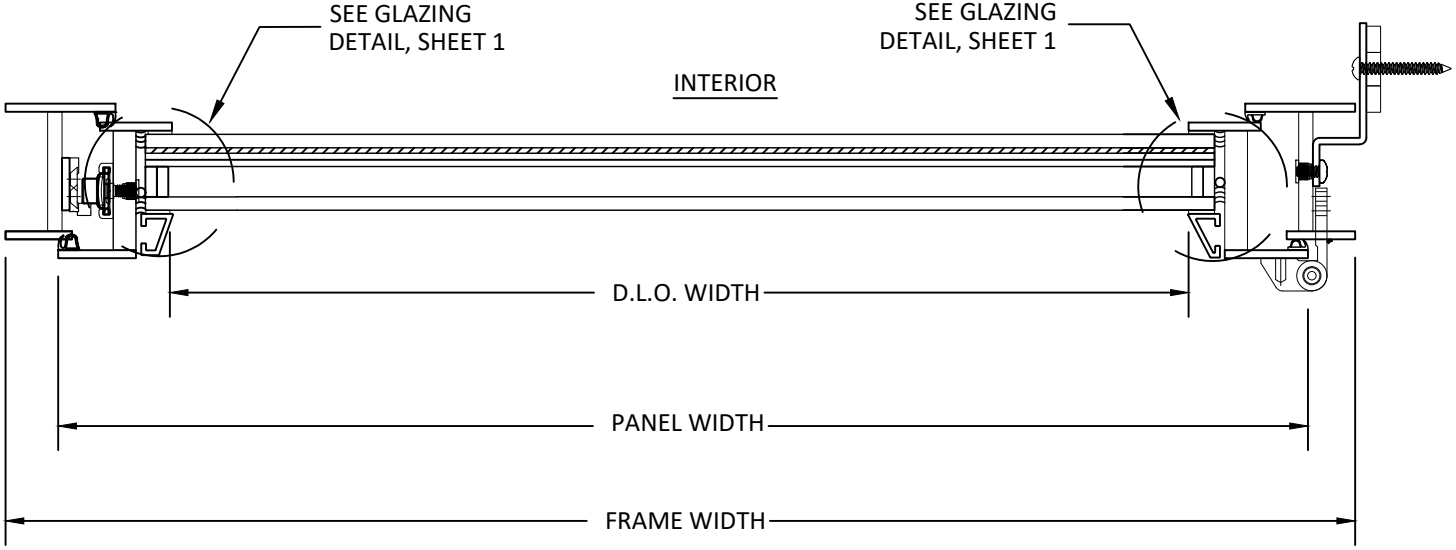
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| FL#:     | <b>FL32366</b>    |
| DATE:    | <b>05/05/2020</b> |
| DWG. BY: | YC                |
| CHK. BY: | HFN               |
| SCALE:   | <b>NTS</b>        |
| DWG. #:  | <b>ACWD005</b>    |
| SHEET:   | <b>5</b>          |
| REV.     | <b>C</b>          |

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**A**  
**6**

**HORIZONTAL SECTION**  
OUTSWING STEEL DOOR- THROUGH FRAME



**B**  
**6**

**HORIZONTAL SECTION**  
OUTSWING STEEL DOOR - CLIP INSTALLATION



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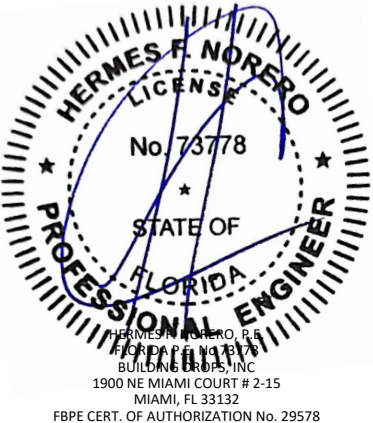
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OUTSWING DOOR  
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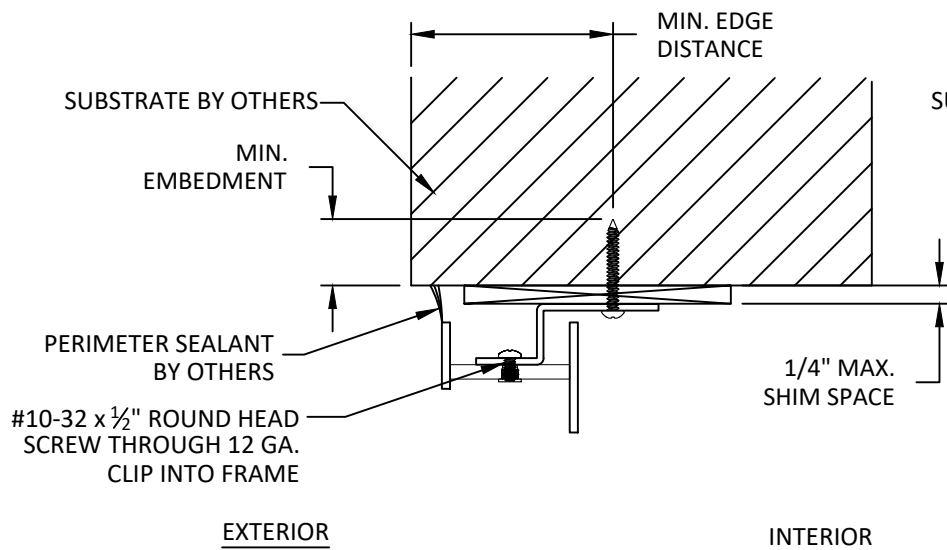
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SCALE: **NTS**

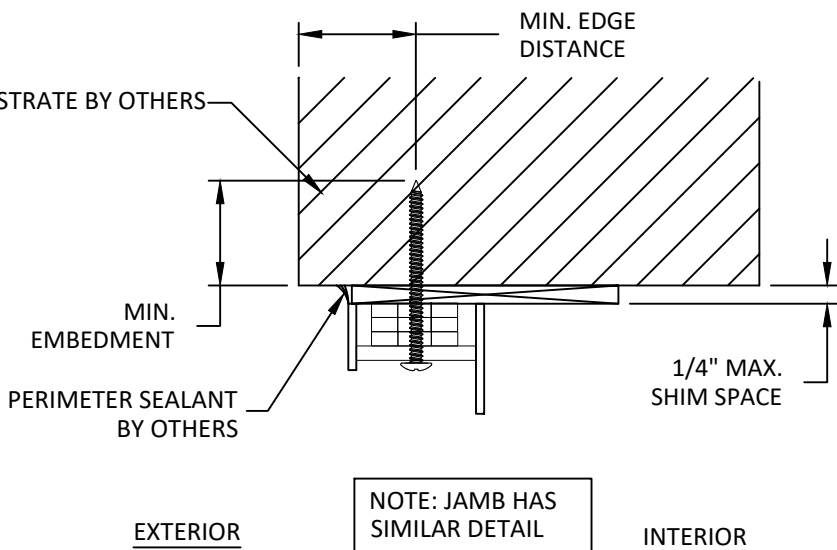
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SHEET: **6** REV. **C**

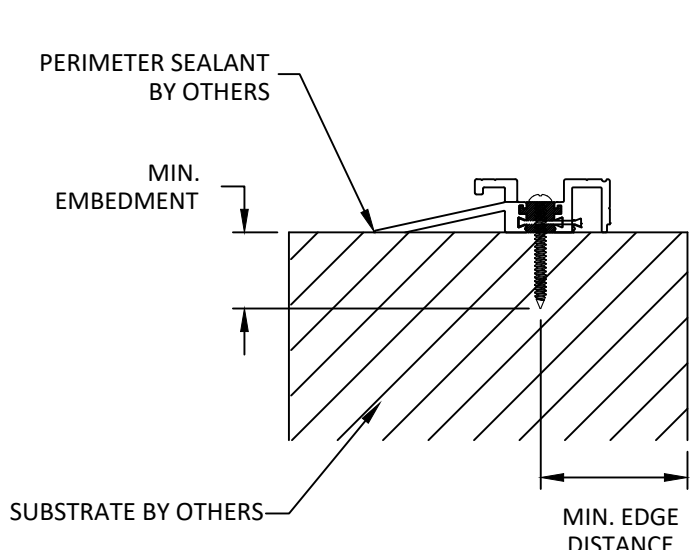
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**A**  
**7**  
**ANCHOR DETAIL**  
CLIP (AT HEAD AND JAMB)



**B**  
**7**  
**ANCHOR DETAIL**  
THROUGH FRAME (AT HEAD AND JAMB)



**C**  
**7**  
**ANCHOR DETAIL**  
THROUGH FRAME (SILL)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN ON SHEETS 2-3.
- 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  $\pm 1/2$  INCH FROM 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 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- 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 |                                                  |                          |                                        |                    |                       |
|-----------------|--------------------------------------------------|--------------------------|----------------------------------------|--------------------|-----------------------|
| METHOD          | SUBSTRATE                                        | ANCHOR TYPE              | MIN. EMBEDMENT                         | MIN. EDGE DISTANCE | QUANTITY PER LOCATION |
| THROUGH FRAME   | WOOD: MIN. SG = 0.55                             | #10 WOOD SCREW           | 1.50"                                  | 0.75"              | 1                     |
|                 | METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI           | #8 TEK SCREW             | 3 THREADS MIN PENETRATION BEYOND METAL | 0.50"              | 1                     |
|                 | METAL: ALUMINUM MIN. 6063-T5 1/8" WALL THICKNESS | #12 TEK SCREW            |                                        | 0.50"              | 1                     |
|                 | CONCRETE: MIN. f'c = 3000 PSI                    | 1/4" ITW TAPCON FLATHEAD | 1.25"                                  | 2.5"               | 1                     |
|                 | MASONRY: CMU MIN. 2000 PSI                       |                          | 1.25"                                  | 2.5"               | 1                     |
|                 | WOOD: MIN. SG = 0.55                             | #10 WOOD SCREW           | 1.50"                                  | 0.75"              | 1                     |
| CLIP            | METAL: 18 GAUGE STEEL, MIN. Fy = 33KSI           | #12 TEK SCREW            | 3 THREADS MIN PENETRATION BEYOND METAL | 0.50"              | 1                     |
|                 | METAL: ALUMINUM MIN. 6063-T5 1/8" WALL THICKNESS | #12 TEK SCREW            |                                        | 0.50"              | 1                     |
|                 | CONCRETE: MIN. f'c = 3000 PSI                    | 1/4" ITW TAPCON FLATHEAD | 1.25"                                  | 2.5"               | 1                     |
|                 | MASONRY: CMU MIN. 2000 PSI                       |                          | 1.00"                                  | 2.5"               | 1                     |
|                 |                                                  |                          |                                        |                    |                       |



ARCADIA CUSTOM  
9280 E OLD VAIL RD,  
TUCSON, AZ 85747

PH: (520) 284-2061 FX: (520) 349-1964

TITLE: TSX5000 & TSX5200  
OUTSWING DOOR  
(WZ3)(IMPACT)

INSTALLATION NOTES, ANCHOR DETAILS  
AND SCHEDULE

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI COURT, STE. 2-15  
MIAMI, FL 33132  
PH: (954) 399-8478  
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WEB: www.buildingdrops.com



| REMARKS          | BY | DATE  |
|------------------|----|-------|
| ANCHOR UPDATES   | MG | 06/23 |
| SECTION UPDATES  | DI | 08/25 |
| 2026 CODE CHANGE | HJ | 03/26 |
|                  |    |       |

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.



FL#:

**FL32366**

DATE: 05/05/2020

DWG. BY: YC  
CHK. BY: HFN

SCALE: NTS

DWG. #: ACWD005

SHEET:

7

REV. C

OF 7