

PALM CITY IRONWORKS, INC.

MILANO SERIES W40 INSWING/OUTSWING DOORS

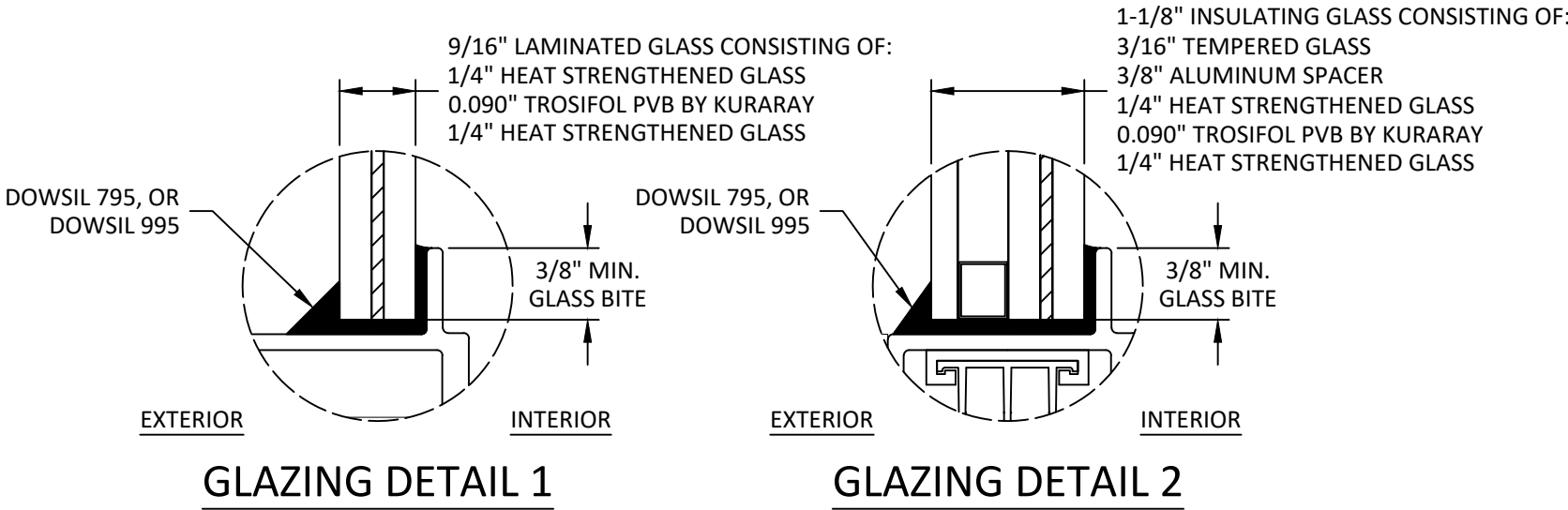
(WZ3) (IMPACT)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC) **EXCLUDING** HVHZ. ALL PRODUCTS UNDER THE SCOPE OF THIS DOCUMENT HAVE BEEN EVALUATED ACCORDING TO THE FOLLOWING:
- ASTM E283/E283M-19
 - ASTM E330/E330M-14(21)
 - ASTM E331-00(16)
 - ASTM E1886-19
 - ASTM E1996-20
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X 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.
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.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
7. FRAME MATERIAL: Q235B STEEL.
8. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.
9. 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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10	INSTALLATION NOTES AND ANCHOR SCHEDULE

DESIGN PRESSURE RATING			
FRAME SIZE	CONFIGURATION	DESIGN PRESSURE	MISSILE RATING
SEE SHEETS 2-6	XX	SEE SHEETS 2 & 5	LARGE AND SMALL MISSILE IMPACT
	XX (ROUND TOP)		
	XX (ARCH TOP)		
	X		
	X (ROUND TOP)		



GLAZING NOTES:

- GLASS TYPE & THICKNESS COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. 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 SHEETS 1 THRU 6.



3160 KUTAK ROAD
FORT MYERS, FL 33916
PH: (239) 691-8400

TITLE:
MILANO SERIES W40
INSWING/OUTSWING DOORS
(WZ3) (IMPACT)
GENERAL NOTES & GLAZING DETAILS

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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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2025.12.09 14:00:00

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 #: **FL27072**

DATE: **11.19.2025**

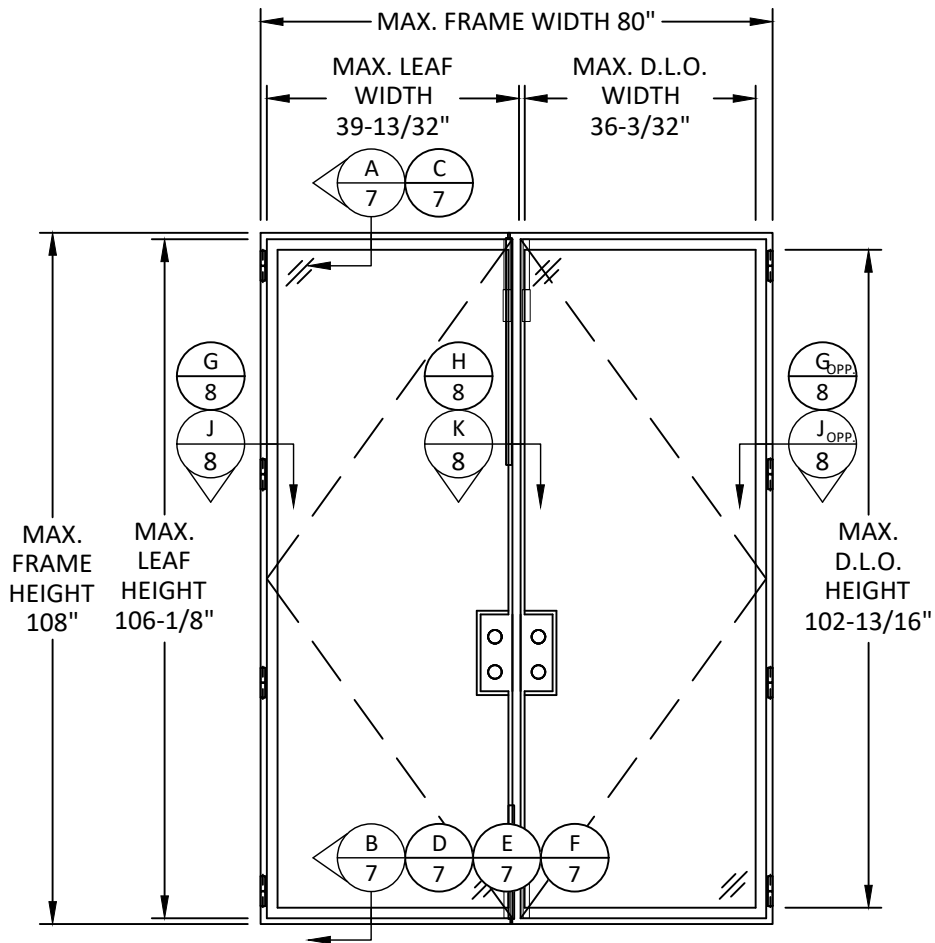
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SCALE: **NTS**

DWG. #: **PCI026**

SHEET: **1**

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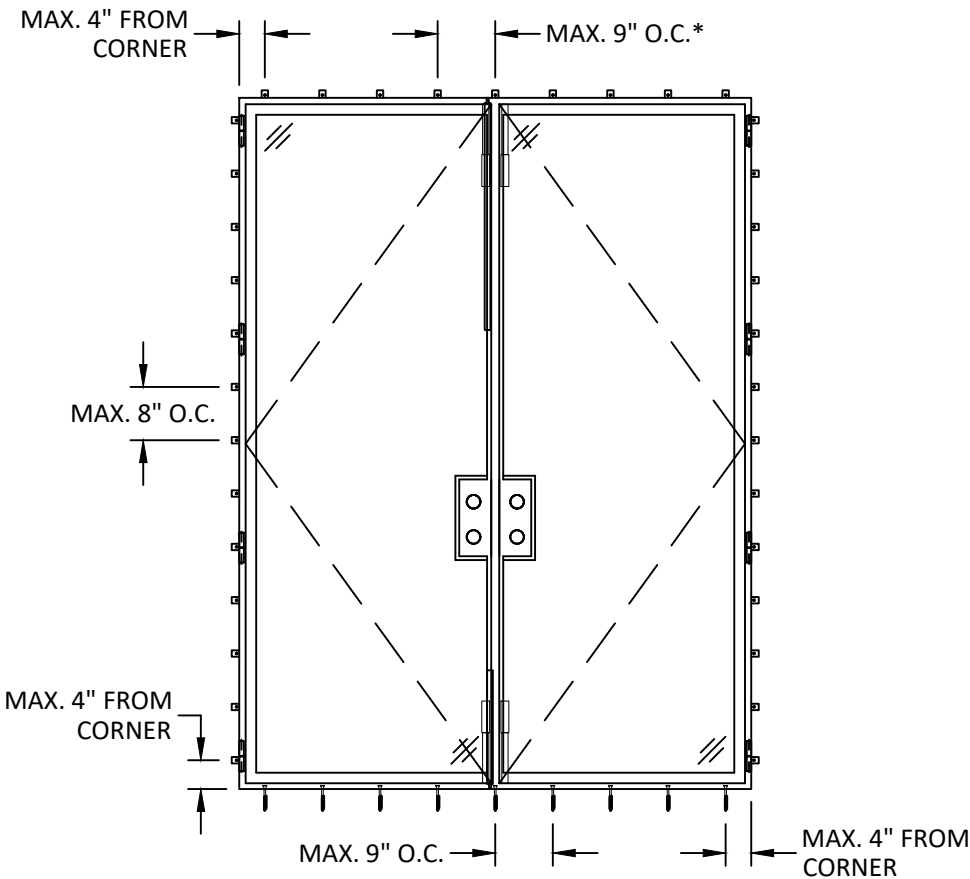
TYPICAL ELEVATION
INSWING/OUTSWING
DOUBLE DOOR

LEAF HEIGHT = FRAME HEIGHT - 1 7/8"
LEAF WIDTH = FRAME WIDTH/2 - 19/32"
D.L.O. HEIGHT = FRAME HEIGHT - 5 3/16"
D.L.O. WIDTH = FRAME WIDTH/2 - 3 29/32"

DESIGN PRESSURE TABLE (+/- PSF) - DOUBLE DOOR									
FRAME HEIGHT (IN.)	FRAME WIDTH (IN.)								
	60	66	72	78	80	84	90	96	102
80	80.00	80.00	80.00	80.00	80.00	65.63	49.61	38.20	29.88
84	80.00	80.00	80.00	80.00	80.00	65.63	49.61	38.20	-
90	80.00	80.00	80.00	80.00	80.00	65.63	49.61	-	-
96	80.00	80.00	80.00	80.00	80.00	65.63	-	-	-
102	80.00	80.00	80.00	80.00	80.00	65.63	-	-	-
108	80.00	80.00	80.00	80.00	80.00	-	-	-	-
114	80.00	80.00	74.32	-	-	-	-	-	-
120	75.37	68.76	-	-	-	-	-	-	-
126	64.80	-	-	-	-	-	-	-	-
132	56.13	-	-	-	-	-	-	-	-

* ADDITIONAL HINGES AND LOCK POINTS SHALL BE REQUIRED FOR DOOR TALLER THAN 108" TO MAINTAIN THE SAME MAXIMUM SPACING BETWEEN HINGES AND LOCK POINTS AS THE 108" TALL DOOR.

* FOR DOUBLE DOOR HEAD WHEN INSTALLED INTO WOOD SUBSTRATE THROUGH FRAME, THE MAXIMUM SPACING SHALL BE 5-1/8". SEE SHEETS 9 & 10 FOR INSTALLATION DETAILS AND SPECIFICATIONS.



ANCHOR LAYOUT
INSWING/OUTSWING
DOUBLE DOOR



3160 KUTAK ROAD
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PH: (239) 691-8400

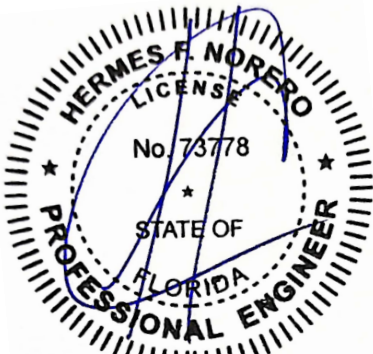
TITLE: MILANO SERIES W40
INSWING/OUTSWING DOORS
(WZ3) (IMPACT)
ELEVATION, ANCHOR LAYOUT, &
DP TABLE

PREPARED BY:
BUILDING DROPS, INC.
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MIAMI, FL 33132
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REMARKS	BY	DATE

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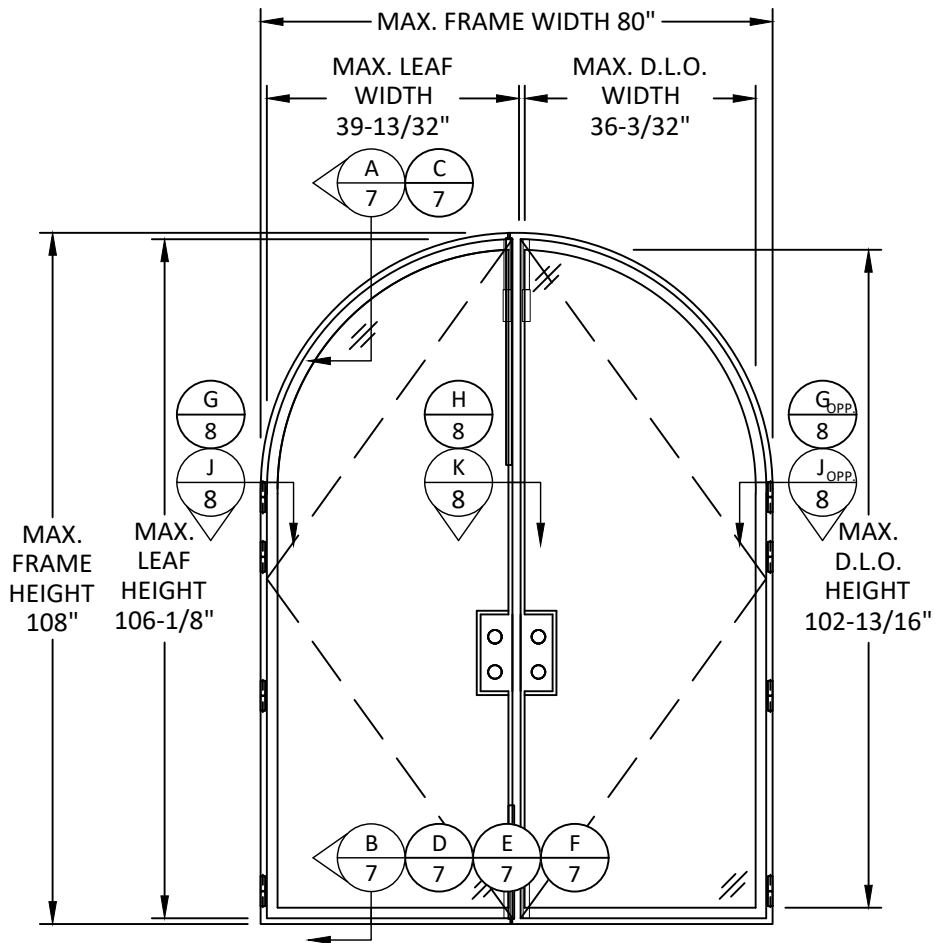
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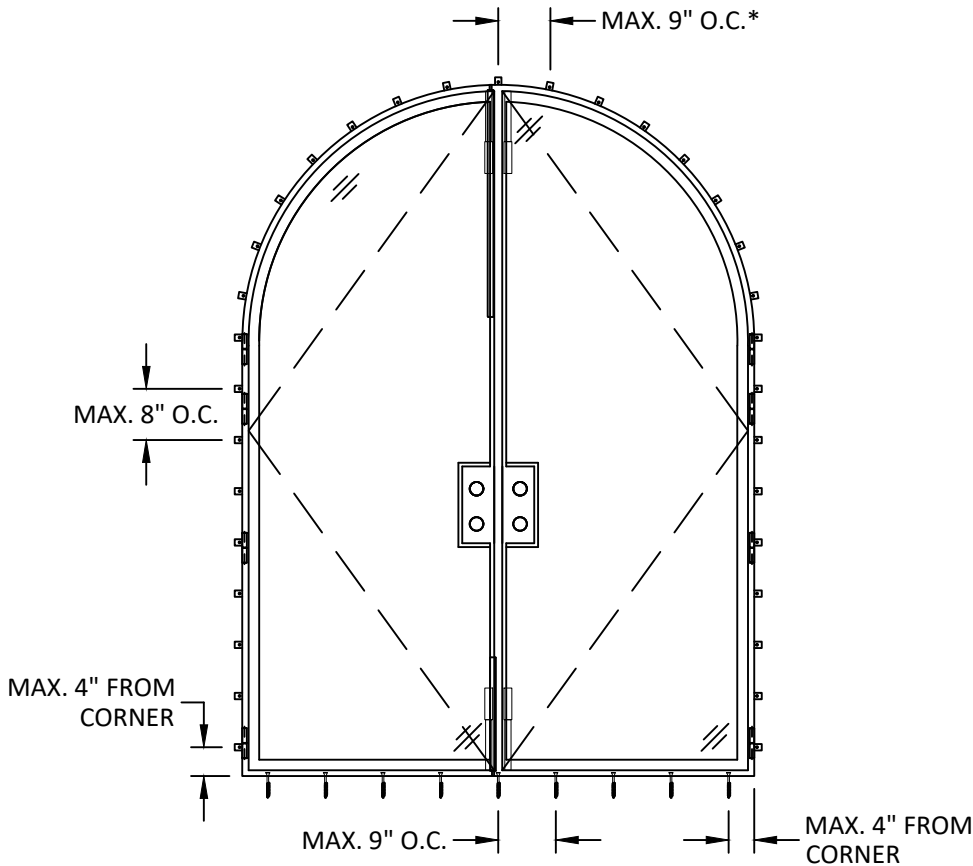
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TYPICAL ELEVATION
INSWING/OUTSWING
DOUBLE DOOR, ROUND TOP

LEAF HEIGHT = FRAME HEIGHT - 1 7/8"
LEAF WIDTH = FRAME WIDTH/2 - 19/32"
D.L.O. HEIGHT = FRAME HEIGHT - 5 3/16"
D.L.O. WIDTH = FRAME WIDTH/2 - 3 29/32"

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THROUGH FRAME, THE MAXIMUM
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SHEETS 9 & 10 FOR INSTALLATION
DETAILS AND SPECIFICATIONS.



ANCHOR LAYOUT
INSWING/OUTSWING
DOUBLE DOOR, ROUND TOP



3160 KUTAK ROAD
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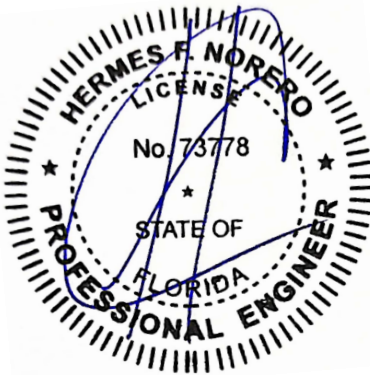
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INSWING/OUTSWING DOORS
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ELEVATION & ANCHOR LAYOUT

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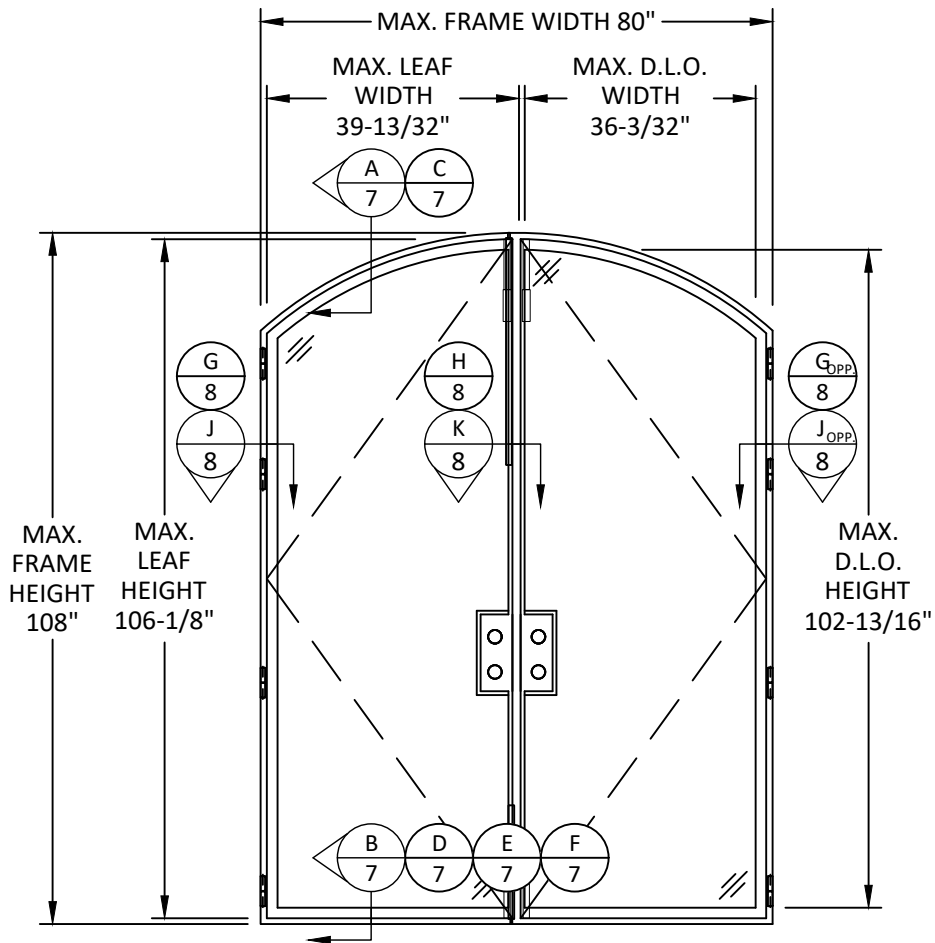
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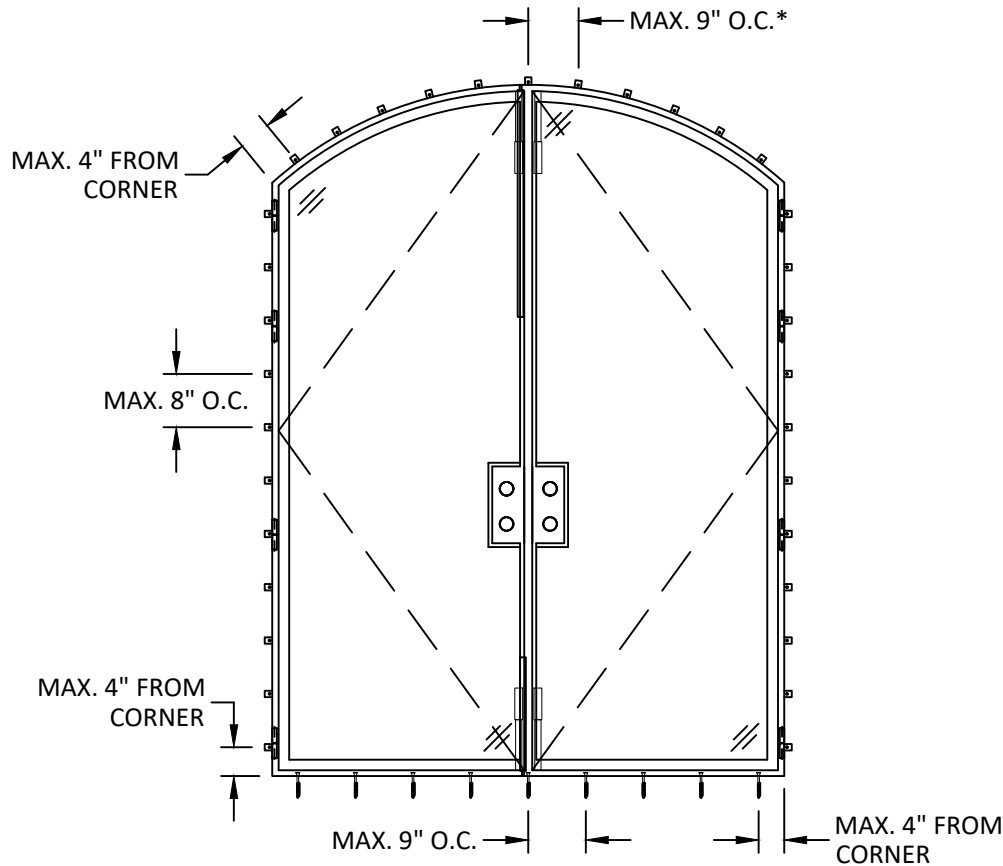
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TYPICAL ELEVATION
INSWING/OUTSWING
DOUBLE DOOR, ARCH TOP

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LEAF WIDTH = FRAME WIDTH/2 - 19/32"
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ANCHOR LAYOUT
INSWING/OUTSWING
DOUBLE DOOR, ARCH TOP



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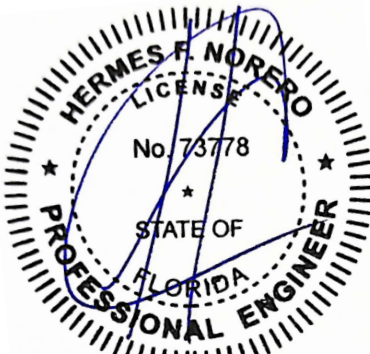
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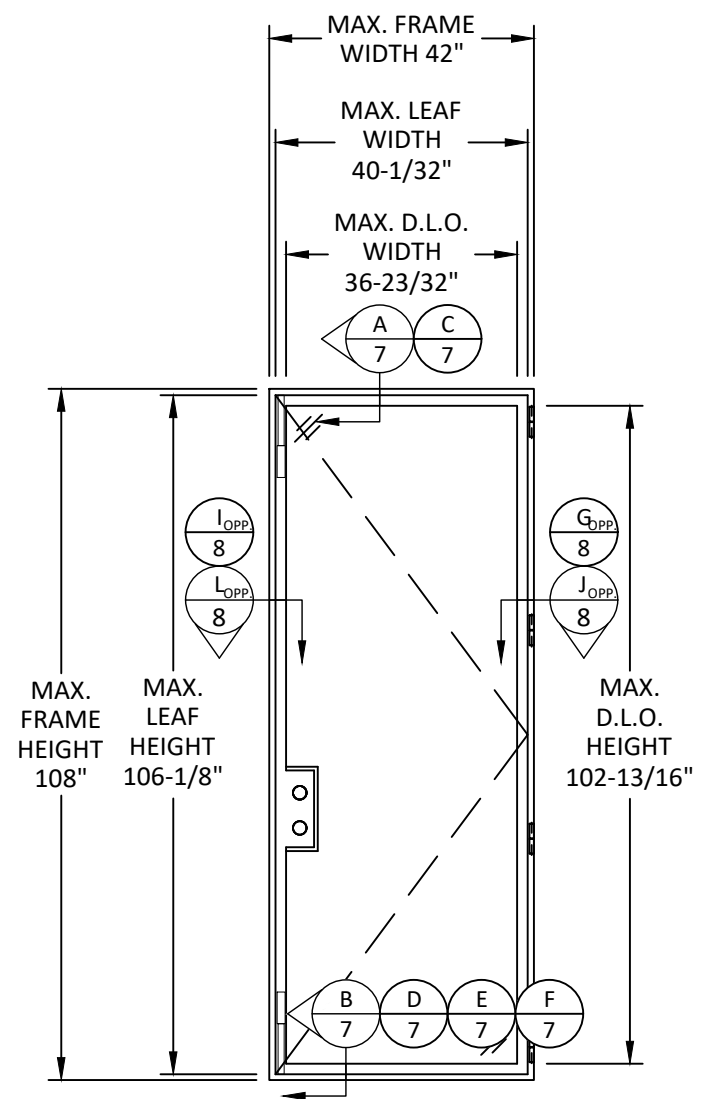
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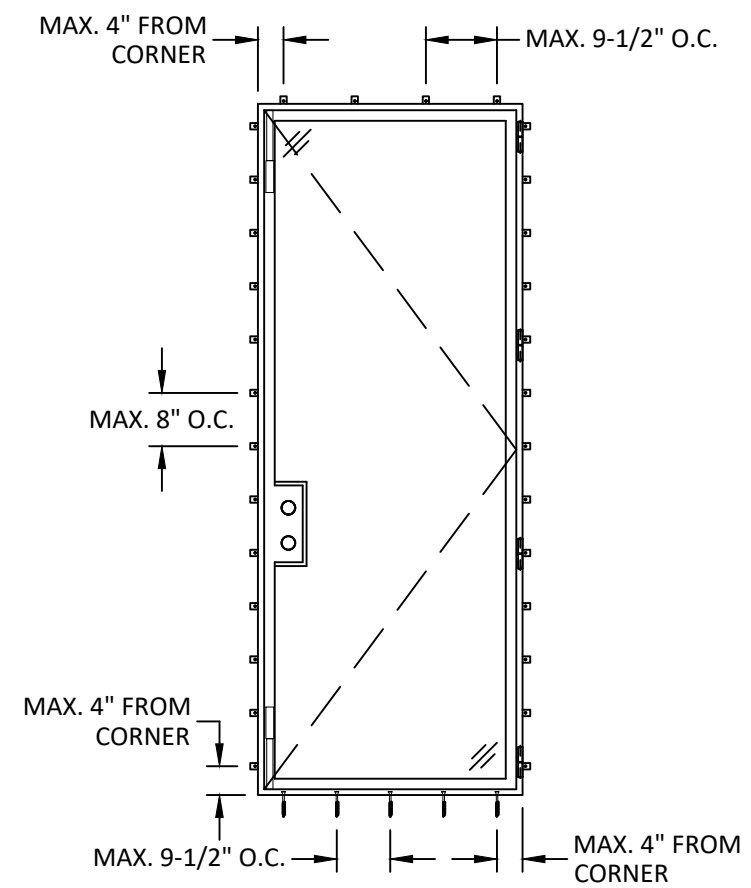
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TYPICAL ELEVATION
INSWING/OUTSWING
SINGLE DOOR



ANCHOR LAYOUT
INSWING/OUTSWING
SINGLE DOOR

LEAF HEIGHT = FRAME HEIGHT - 1 7/8"
LEAF WIDTH = FRAME WIDTH - 1 31/32"
D.L.O. HEIGHT = FRAME HEIGHT - 5 3/16"
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DESIGN PRESSURE TABLE (+/- PSF) - SINGLE DOOR									
FRAME HEIGHT (IN.)	FRAME WIDTH (IN.)								
	30	33	36	39	42	45	48	51	54
80	80.00	80.00	80.00	80.00	80.00	59.92	45.76	35.55	28.03
84	80.00	80.00	80.00	80.00	80.00	59.92	45.76	35.55	-
90	80.00	80.00	80.00	80.00	80.00	59.92	45.76	-	-
96	80.00	80.00	80.00	80.00	80.00	59.92	-	-	-
102	80.00	80.00	80.00	80.00	80.00	-	-	-	-
108	80.00	80.00	80.00	80.00	80.00	-	-	-	-
114	80.00	80.00	80.00	80.00	-	-	-	-	-
120	80.00	80.00	80.00	-	-	-	-	-	-
126	80.00	80.00	80.00	-	-	-	-	-	-
132	80.00	80.00	-	-	-	-	-	-	-
138	80.00	80.00	-	-	-	-	-	-	-
144	80.00	-	-	-	-	-	-	-	-

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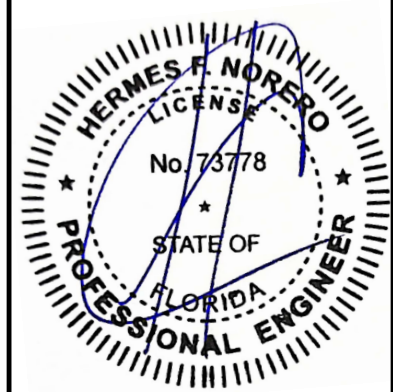
TITLE: MILANO SERIES W40
INSWING/OUTSWING DOORS
(WZ3) (IMPACT)
ELEVATION, ANCHOR LAYOUT, &
DP TABLE

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REMARKS	BY	DATE

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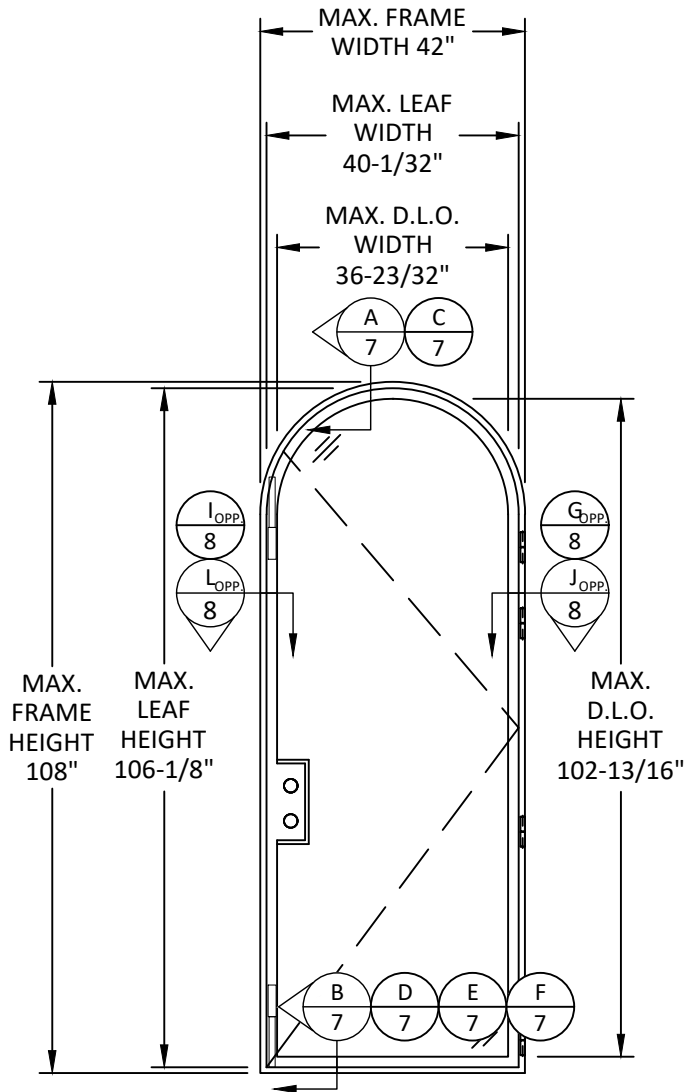
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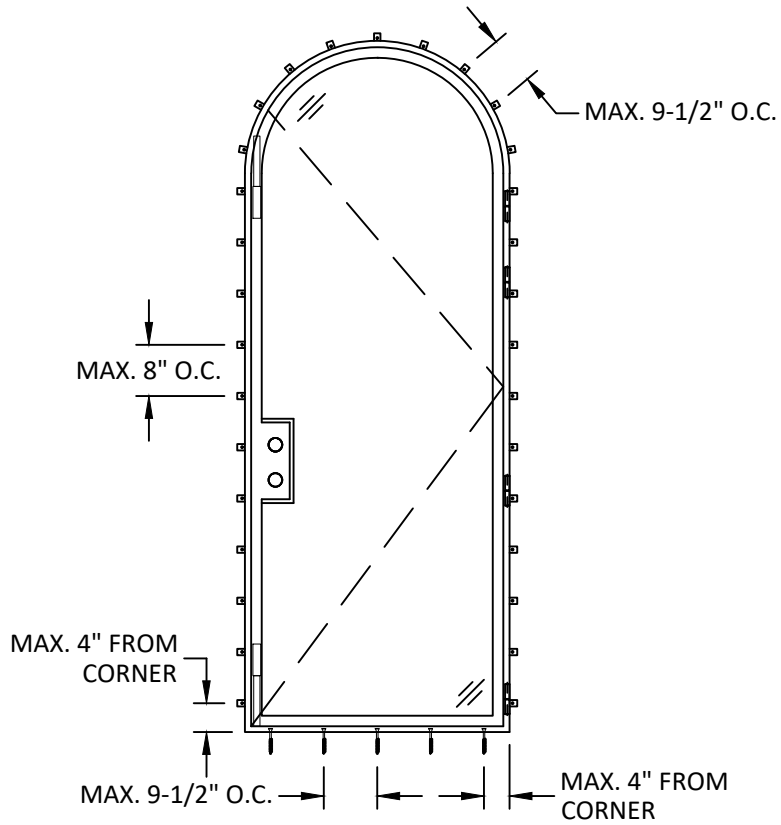
DWG. #: **PCI026**

SHEET: **5**

OF 10



TYPICAL ELEVATION
INSWING/OUTSWING
SINGLE DOOR, ROUND TOP



ANCHOR LAYOUT
INSWING/OUTSWING
SINGLE DOOR, ROUND TOP

LEAF HEIGHT = FRAME HEIGHT - 1 7/8"
LEAF WIDTH = FRAME WIDTH - 1 31/32"
D.L.O. HEIGHT = FRAME HEIGHT - 5 3/16"
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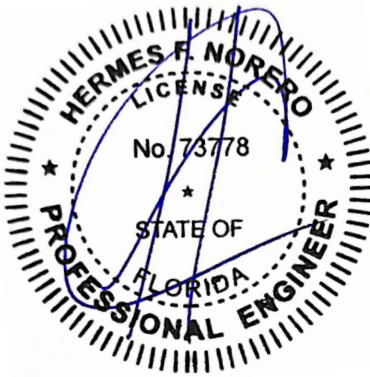
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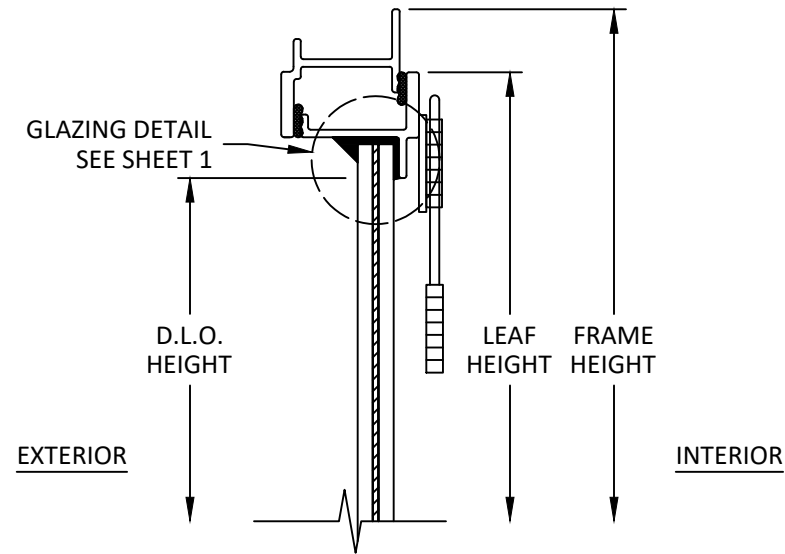
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SHEET:

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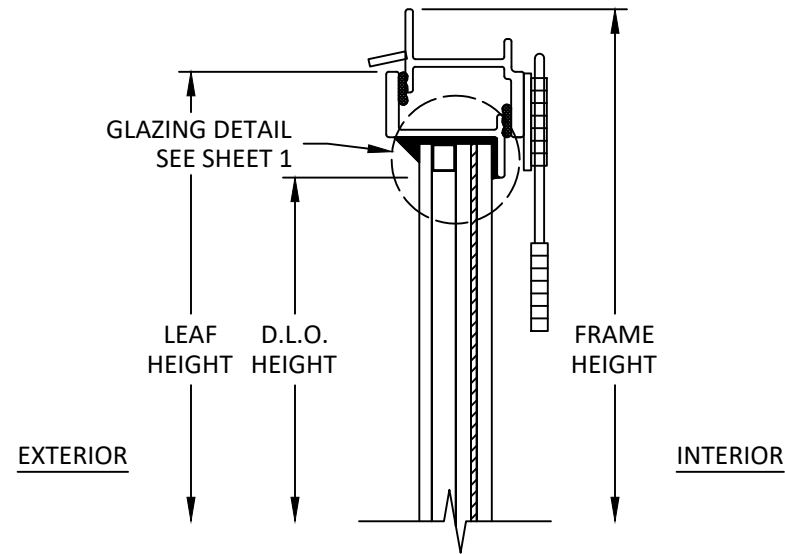
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A
7

VERTICAL SECTION

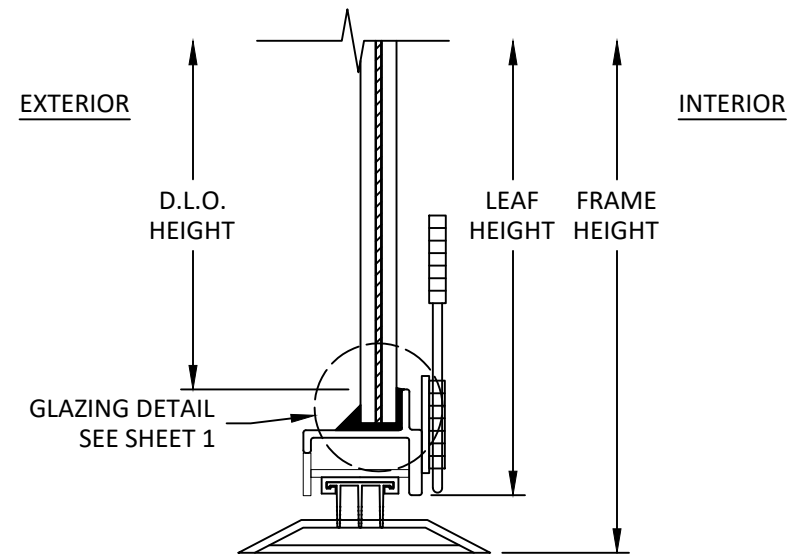
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MONOLITHIC GLASS



C
7

VERTICAL SECTION

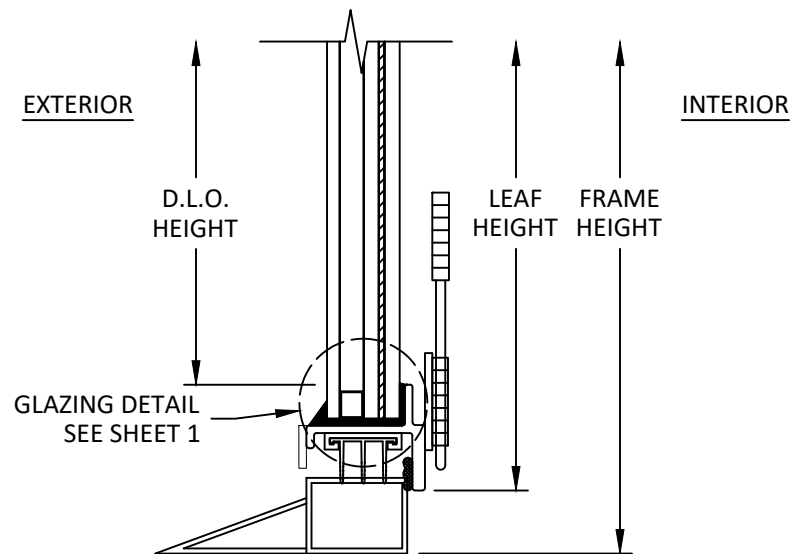
OUTSWING DOOR HEAD
INSULATED GLASS



E
7

VERTICAL SECTION

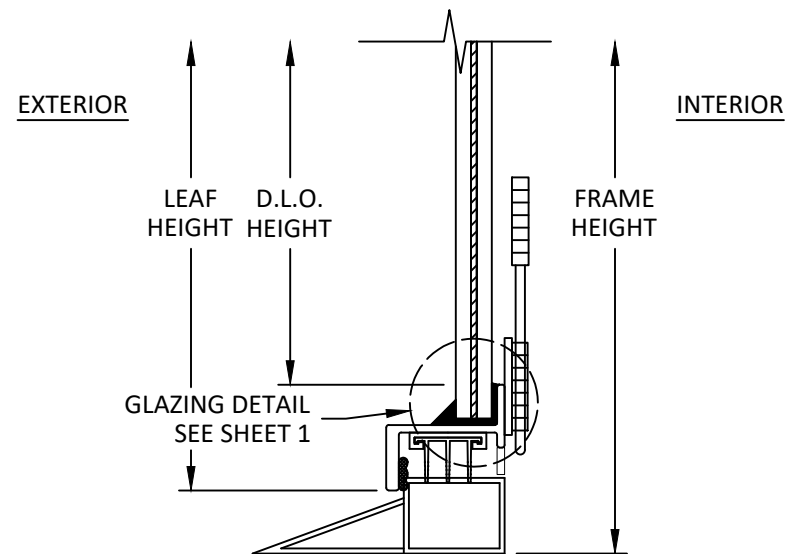
INSWING DOOR ADA SILL
MONOLITHIC GLASS



B
7

VERTICAL SECTION

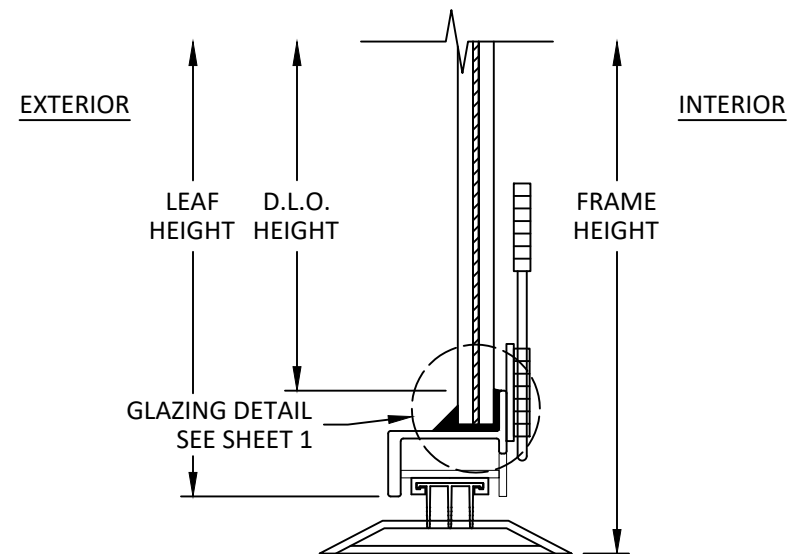
INSWING DOOR SILL
INSULATED GLASS



D
7

VERTICAL SECTION

OUTSWING DOOR SILL
MONOLITHIC GLASS



F
7

VERTICAL SECTION

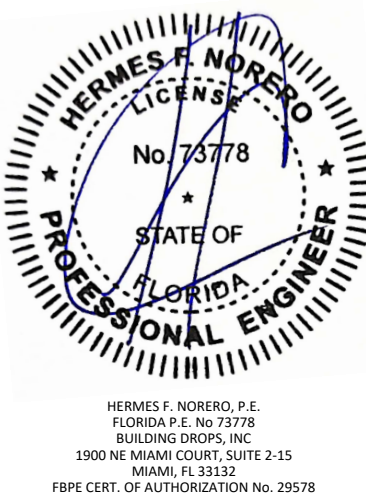
OUTSWING DOOR ADA SILL
MONOLITHIC GLASS

TITLE: MILANO SERIES W40
INSWING/OUTSWING DOORS
(W23) (IMPACT)
VERTICAL SECTIONS

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 BUILDING DROPS
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DWG. #:	PCI026
SHEET:	7

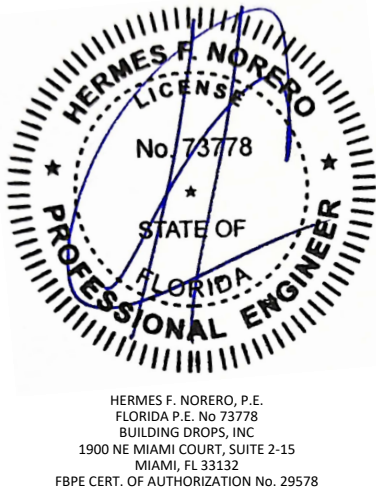
TITLE: MILANO SERIES W40
INSWING/OUTSWING DOORS
(WZ3) (IMPACT)

HORIZONTAL SECTIONS

PREPARED BY:
 **BUILDING DROPS**
BUILDING DROPS, INC.
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REMARKS	BY	DATE

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FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL27072**

DATE: **11.19.2025**

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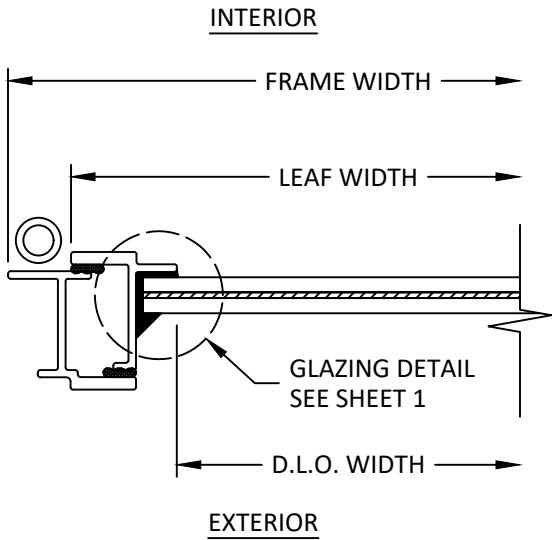
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HFN

SCALE: **NTS**

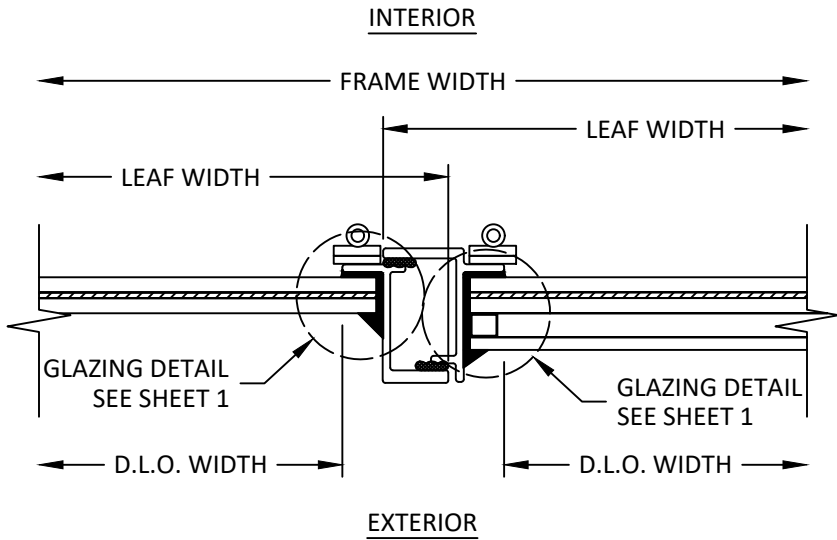
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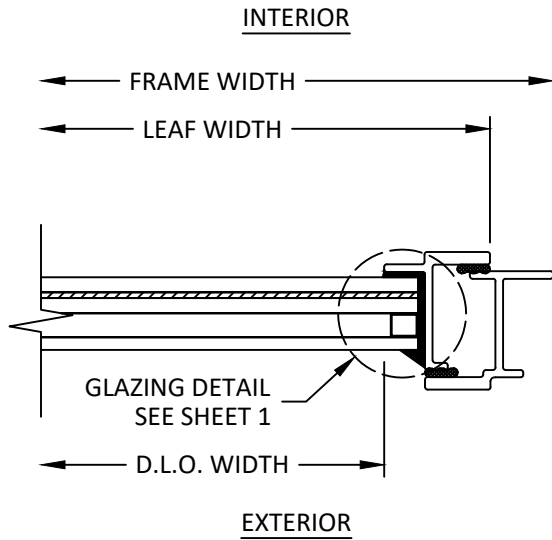
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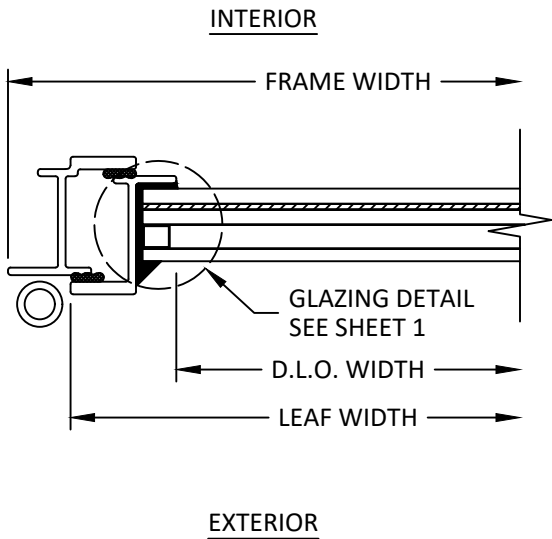
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8 **HORIZONTAL SECTION**
INSWING DOOR HINGE JAMB
MONOLITHIC GLASS



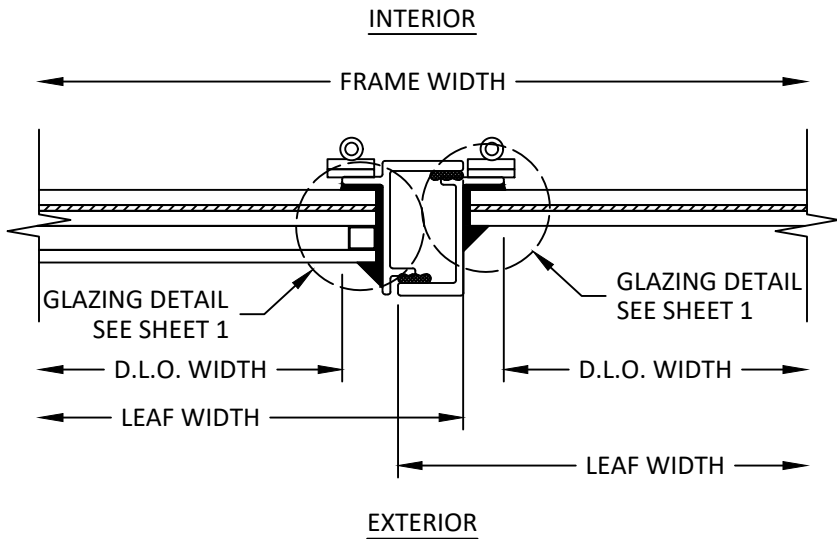
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8 **HORIZONTAL SECTION**
INSWING DOOR MEETING STILE
MONOLITHIC/INSULATED GLASS



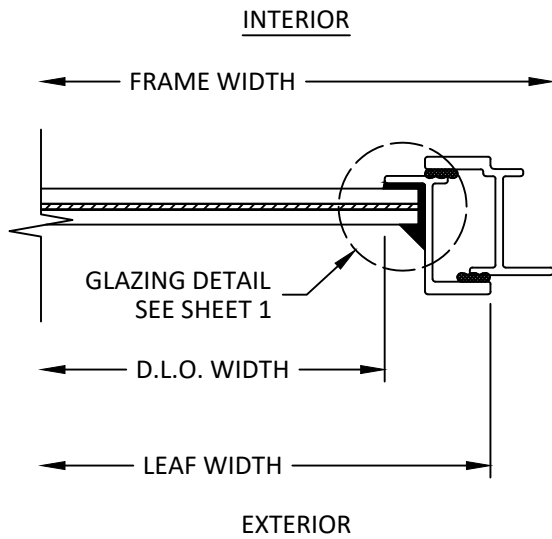
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8 **HORIZONTAL SECTION**
INSWING DOOR LOCK JAMB
INSULATED GLASS



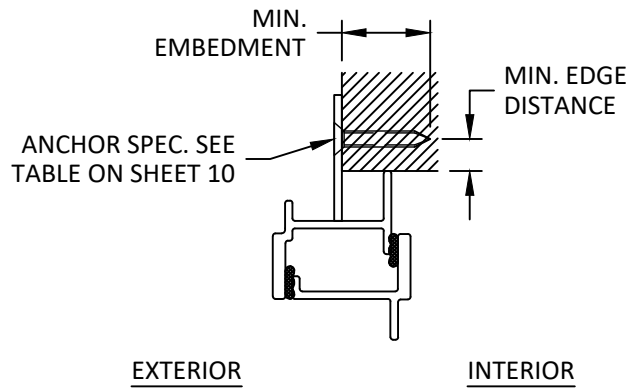
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8 **HORIZONTAL SECTION**
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INSULATED GLASS



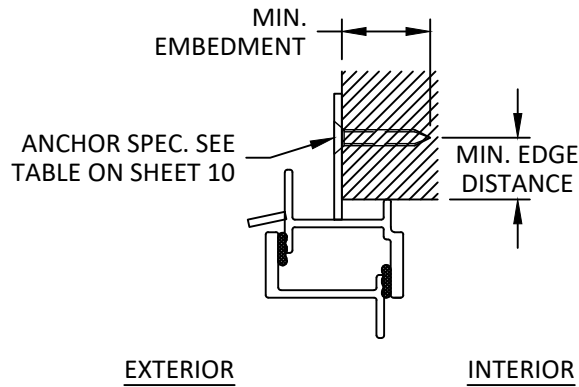
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8 **HORIZONTAL SECTION**
OUTSWING DOOR MEETING STILE
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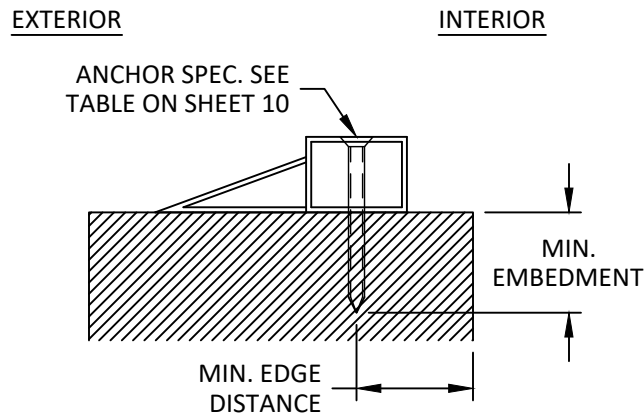
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8 **HORIZONTAL SECTION**
OUTSWING DOOR LOCK JAMB
MONOLITHIC GLASS



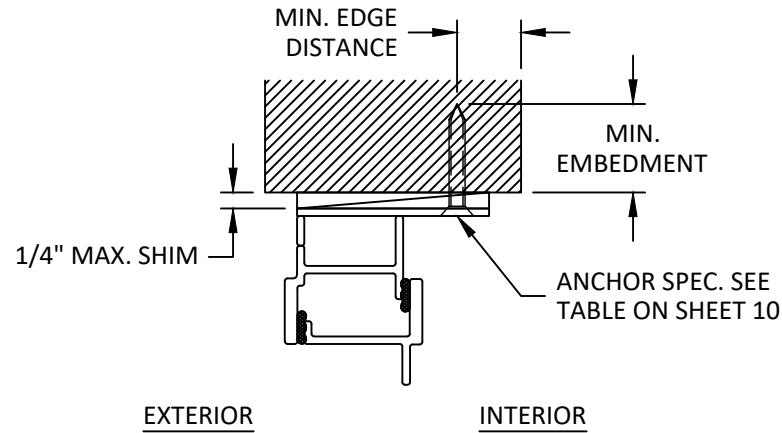
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9 **INSTALLATION DETAILS**
INSWING DOOR HEAD - THROUGH TAB
HEAD INSTALLATION SHOWN, JAMB SIMILAR



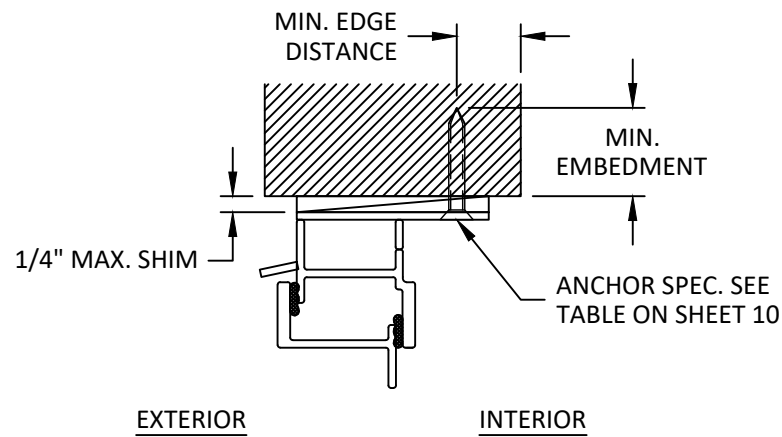
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9 **INSTALLATION DETAILS**
OUTSWING DOOR HEAD - THROUGH TAB
HEAD INSTALLATION SHOWN, JAMB SIMILAR



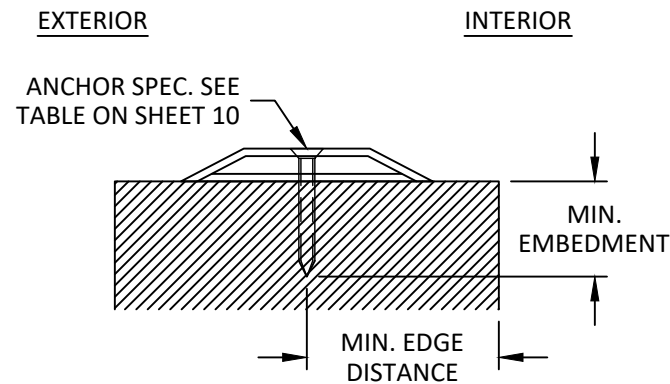
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9 **INSTALLATION DETAILS**
INSWING/OUTSWING DOOR SILL



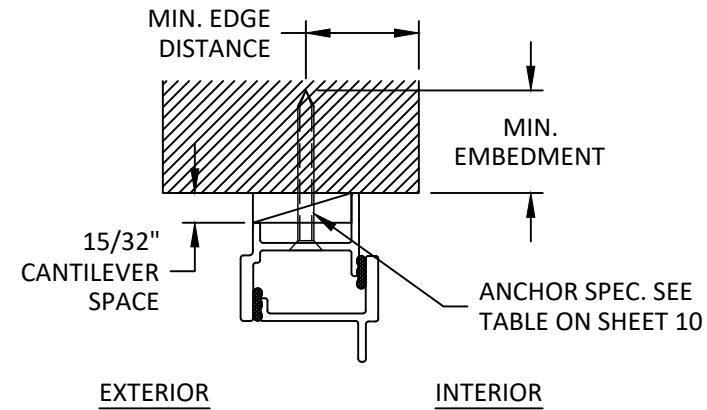
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9 **INSTALLATION DETAILS**
INSWING DOOR HEAD - THROUGH STRAP
HEAD INSTALLATION SHOWN, JAMB SIMILAR



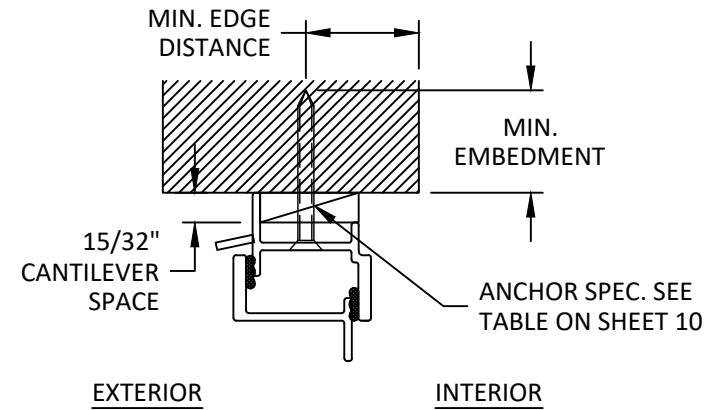
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9 **INSTALLATION DETAILS**
OUTSWING DOOR HEAD - THROUGH STRAP
HEAD INSTALLATION SHOWN, JAMB SIMILAR



T
9 **INSTALLATION DETAILS**
INSWING/OUTSWING DOOR ADA SILL



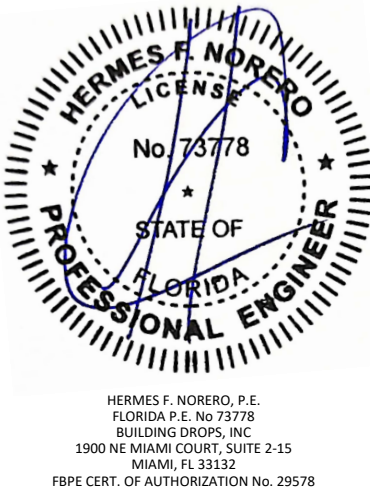
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9 **INSTALLATION DETAILS**
INSWING DOOR HEAD - THROUGH FRAME
HEAD INSTALLATION SHOWN, JAMB SIMILAR



R
9 **INSTALLATION DETAILS**
OUTSWING DOOR HEAD - THROUGH FRAME
HEAD INSTALLATION SHOWN, JAMB SIMILAR

REMARKS	BY	DATE

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INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±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.
4. 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.
5. 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.
6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
7. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
8. 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.
9. 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	LOCATION	METHOD	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD: MIN. S.G. = 0.55	HEAD/JAMB	THROUGH TAB	#14 WOOD SCREW	1-1/2"	1/2"
	HEAD/JAMB/ SILL	THROUGH STRAP/ FRAME	#14 WOOD SCREW	1-1/2"	1"
STEEL: MIN. 18 GA. MIN. Fy = 33 ksi	HEAD/JAMB/ SILL	THROUGH TAB/STRAP/ FRAME	1/4" GRADE 5 SELF-DRILLING/ SELF-TAPPING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	1/2"
ALUMINUM: MIN. 1/8" THICK MIN. 6063-T5					
CONCRETE: MIN. f'c = 3000 psi	HEAD/JAMB/ SILL	THROUGH STRAP/ FRAME	1/4" ITW TAPCON	1-1/2"	1-1/2"
MASONRY: HOLLOW OR GROUT- FILLED BLOCK per ASTM C90, MIN. 2000 PSI	HEAD/JAMB	THROUGH STRAP/ FRAME	1/4" ITW TAPCON	1"	2"



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FORT MYERS, FL 33916
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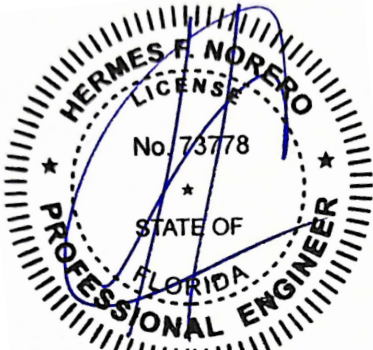
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