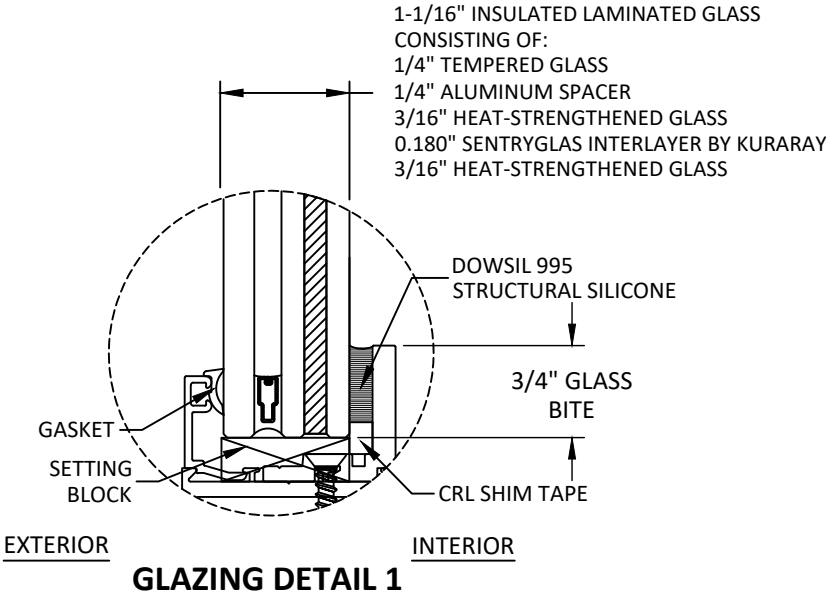


ARCADIA INC.

WS512 HD SERIES DOOR (SINGLE/DOUBLE) (WZ3) (MISSILE LEVEL E)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - ASTM E1886-19
 - ASTM E1996-23
 - TAS 202-94
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. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
5. 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.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONES 3 OR LESS.
7. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
8. DOOR FRAME MATERIAL: ALUMINUM 6063-T5



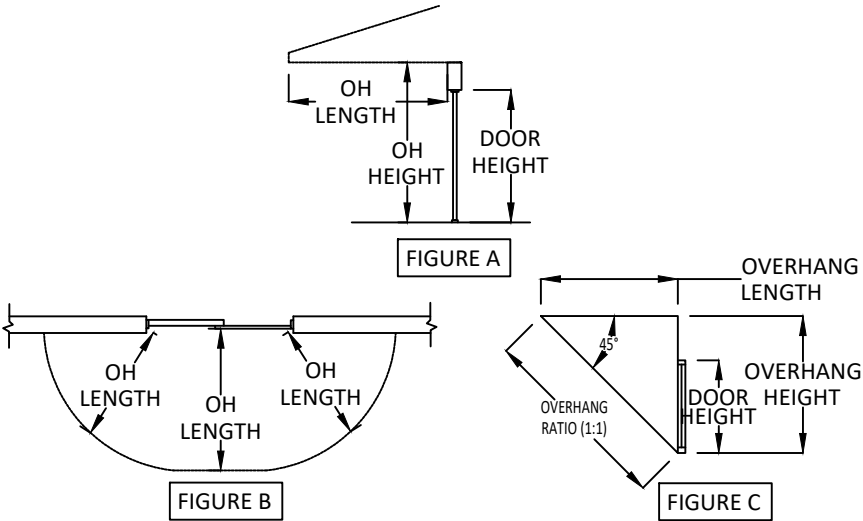
- GLAZING NOTES:
1. GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS. PER THE FBC TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH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

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES & GLAZING DETAILS
2	ELEVATIONS & DESIGN PRESSURE TABLES
3	ANCHOR LAYOUTS
4	VERTICAL SECTIONS
5	HORIZONTAL SECTIONS
6	ANCHOR DETAILS & INSTALLATION NOTES

DESIGN PRESSURE RATING				
CONFIGURATION	WIDTH (IN.)	HEIGHT (IN.)	DESIGN PRESSURE	MISSILE IMPACT RATING
XX	SEE TABLES ON SHEET 2			LARGE & SMALL MISSILE IMPACT
X				

*DOOR IS NOT RATED FOR WATER INFILTRATION.

NOTE:
WHEN INSTALLED AT A LOCATION PROTECTED BY AN OVERHANG SUCH THAT:
OVERHANG (OH) RATIO = OH LENGTH ÷ OH HEIGHT IS ≥ 1.0,
PRODUCT DOES NOT REQUIRE WATER TESTING
OR IN NONHABITABLE AREAS WHERE DOOR ASSEMBLY AND AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.



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2301 EAST VERNON AVE.
VERNON, CA 90058
PH: (323)771-9819

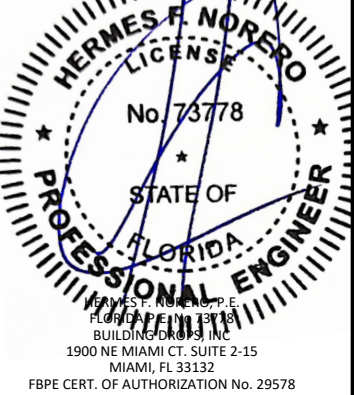
TITLE: WS512 HD SERIES DOOR
(SINGLE/DOUBLE)
(WZ3) (MISSILE LEVEL E)
GENERAL NOTES
& GLAZING DETAILS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)395-8478
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: 2026.10.05 17:06:41 -0400



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HJ

CHK. BY:
HFN

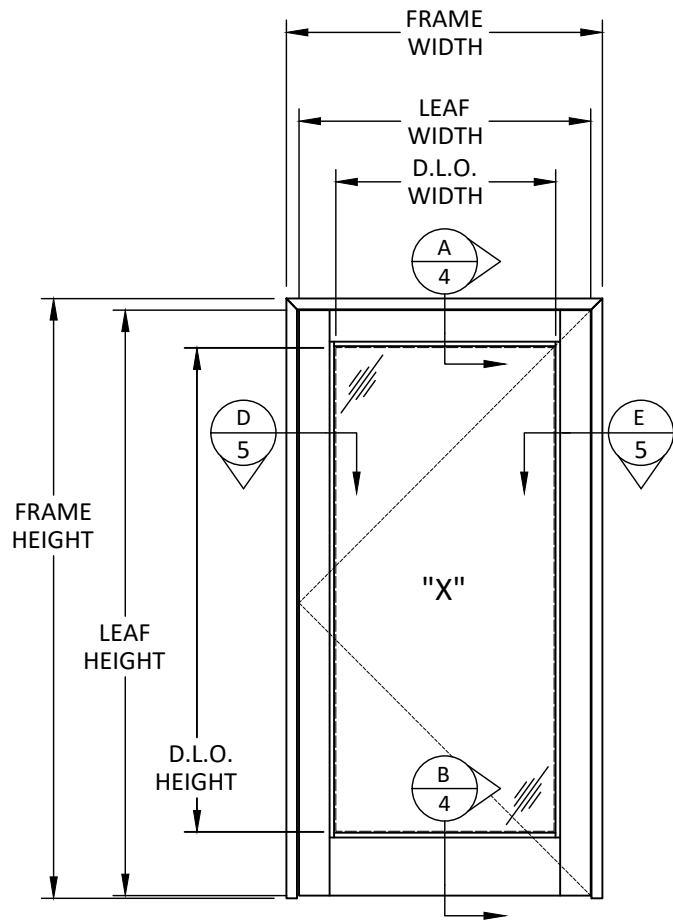
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DWG. #: ARC021

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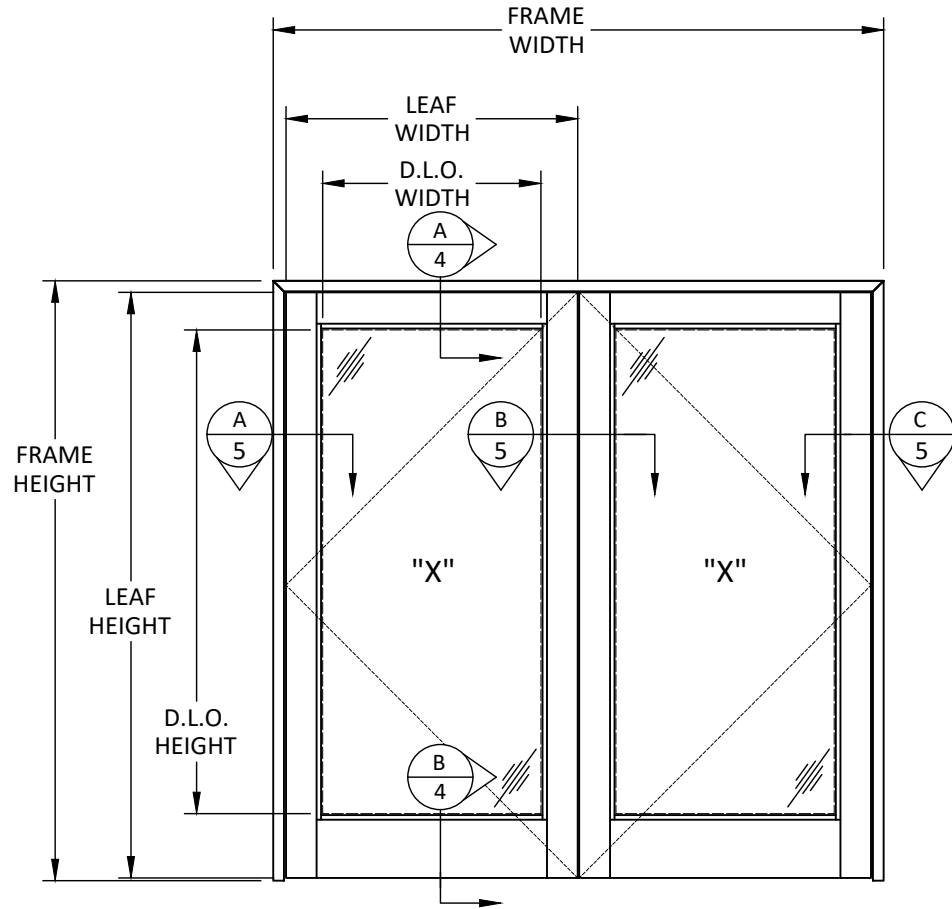


ELEVATION
SINGLE DOOR

DOUBLE DOOR:
LEAF WIDTH = FRAME WIDTH/2 - 2.1875"
LEAF HEIGHT = FRAME HEIGHT - 2.3125"

SINGLE DOOR:
LEAF WIDTH = FRAME WIDTH - 4.125"
LEAF HEIGHT = FRAME HEIGHT - 2.3125"

D.L.O. WIDTH = LEAF WIDTH - 11.500"
D.L.O. HEIGHT = LEAF HEIGHT - 16.125"



ELEVATION
DOUBLE DOOR

DESIGN PRESSURE TABLE (+/- PSF) - SINGLE DOOR											
FRAME HEIGHT (IN.)	FRAME WIDTH (IN.)										
	24	27	30	33	36	39	42	45	48	51	54
80	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	39.20	30.86
84	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	39.20	30.86
90	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	-	-
96	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	-	-
102	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	-	-	-
108	50.00	50.00	50.00	50.00	50.00	50.00	50.00	-	-	-	-
114	50.00	50.00	50.00	50.00	50.00	50.00	-	-	-	-	-
120	50.00	50.00	50.00	50.00	50.00	-	-	-	-	-	-
126	50.00	50.00	50.00	50.00	50.00	-	-	-	-	-	-
132	50.00	50.00	50.00	50.00	-	-	-	-	-	-	-
138	50.00	50.00	50.00	50.00	-	-	-	-	-	-	-
144	50.00	50.00	50.00	-	-	-	-	-	-	-	-
150	50.00	50.00	50.00	-	-	-	-	-	-	-	-
156	50.00	50.00	50.00	-	-	-	-	-	-	-	-
162	50.00	50.00	-	-	-	-	-	-	-	-	-
168	50.00	50.00	-	-	-	-	-	-	-	-	-

DESIGN PRESSURE TABLE (+/- PSF) - DOUBLE DOOR											
FRAME HEIGHT (IN.)	FRAME WIDTH (IN.)										
	48	54	60	66	72	78	84	90	96	102	108
80	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	39.20	30.86
84	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	39.20	30.86
90	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	-	-
96	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	-	-
102	50.00	50.00	50.00	50.00	50.00	49.49	46.20	-	-	-	-
108	50.00	50.00	50.00	48.59	44.59	41.28	-	-	-	-	-
114	50.00	50.00	45.19	41.02	37.62	-	-	-	-	-	-
120	48.70	42.99	38.53	34.95	-	-	-	-	-	-	-
126	41.90	36.97	33.12	-	-	-	-	-	-	-	-
132	36.30	32.02	28.68	-	-	-	-	-	-	-	-
138	31.67	27.92	-	-	-	-	-	-	-	-	-
144	27.79	24.50	-	-	-	-	-	-	-	-	-
150	24.52	-	-	-	-	-	-	-	-	-	-
156	21.74	-	-	-	-	-	-	-	-	-	-



ARCADIA, INC.
2301 EAST VERNON AVE.
VERNON, CA 90058
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TITLE: WS512 HD SERIES DOOR
(SINGLE/DOUBLE)
(WZ3) (MISSILE LEVEL E)

ELEVATIONS
& DESIGN PRESSURE TABLES

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132

PH: (954)395-8478

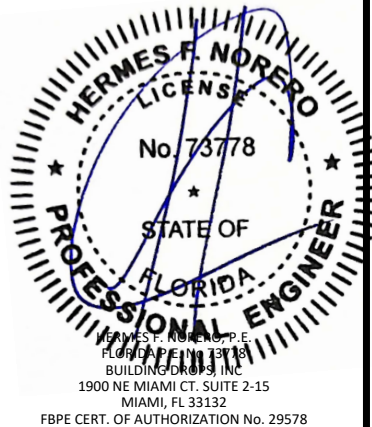
FAX: (954)744-4738

WEB: www.buildingdrops.com



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CHK. BY:
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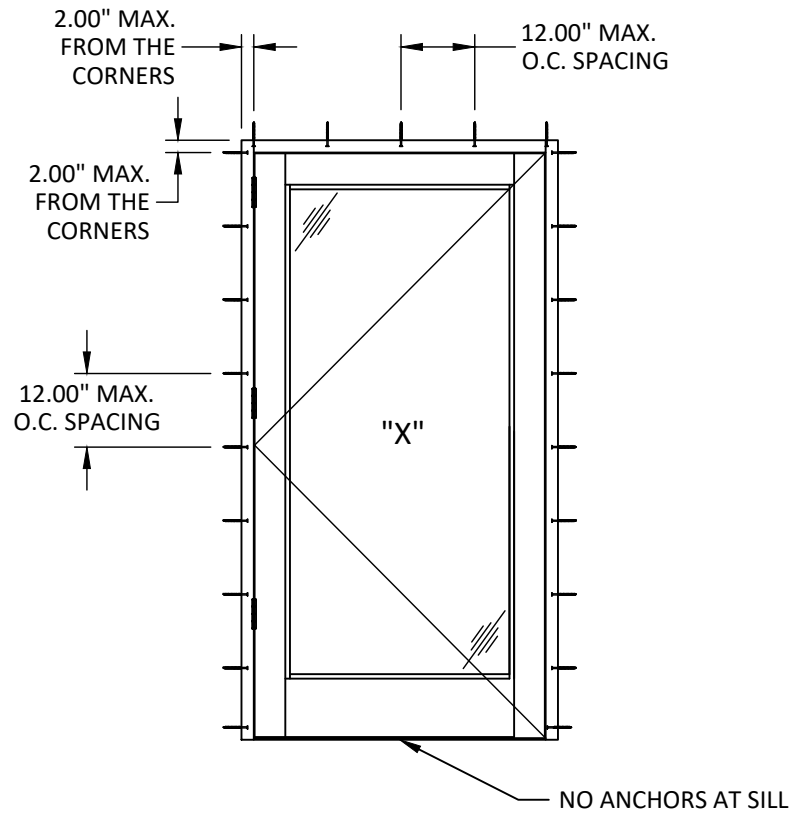
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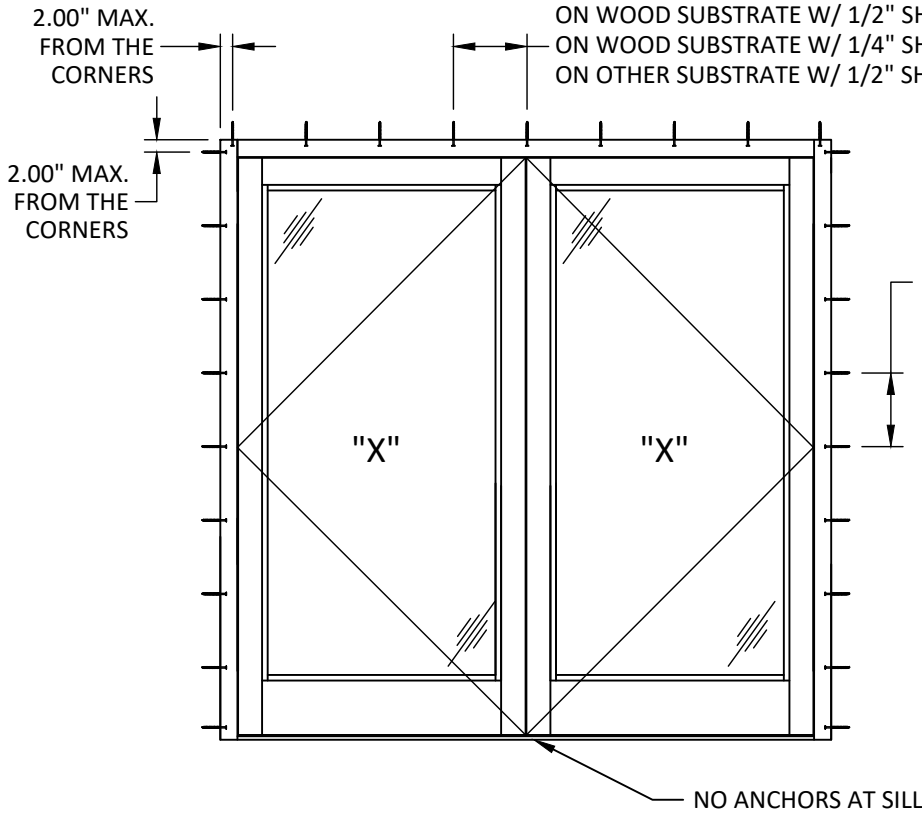
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OF 6



ANCHOR LAYOUT
SINGLE DOOR



ANCHOR LAYOUT
DOUBLE DOOR

ON WOOD SUBSTRATE W/ 1/2" SHIM: 8 3/8" MAX. O.C.
ON WOOD SUBSTRATE W/ 1/4" SHIM: 12" MAX. O.C.
ON OTHER SUBSTRATE W/ 1/2" SHIM: 12" MAX. O.C.



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VERNON, CA 90058
PH: (323)771-9819

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ANCHOR LAYOUTS

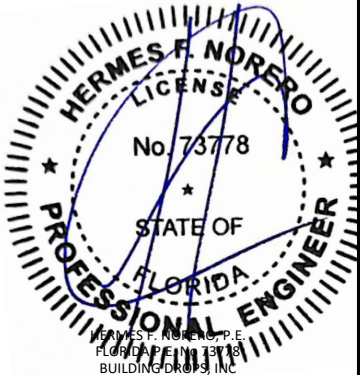
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MIAMI, FL 33132
PH: (954)395-8478
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FL40955
BUILDING DROPS, INC.
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132

FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL40955
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SCALE:	NTS
DWG. #:	ARC021
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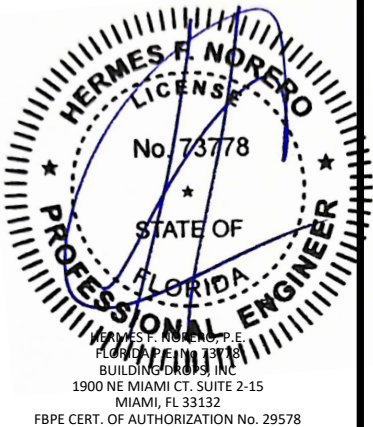
VERTICAL SECTIONS

1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com



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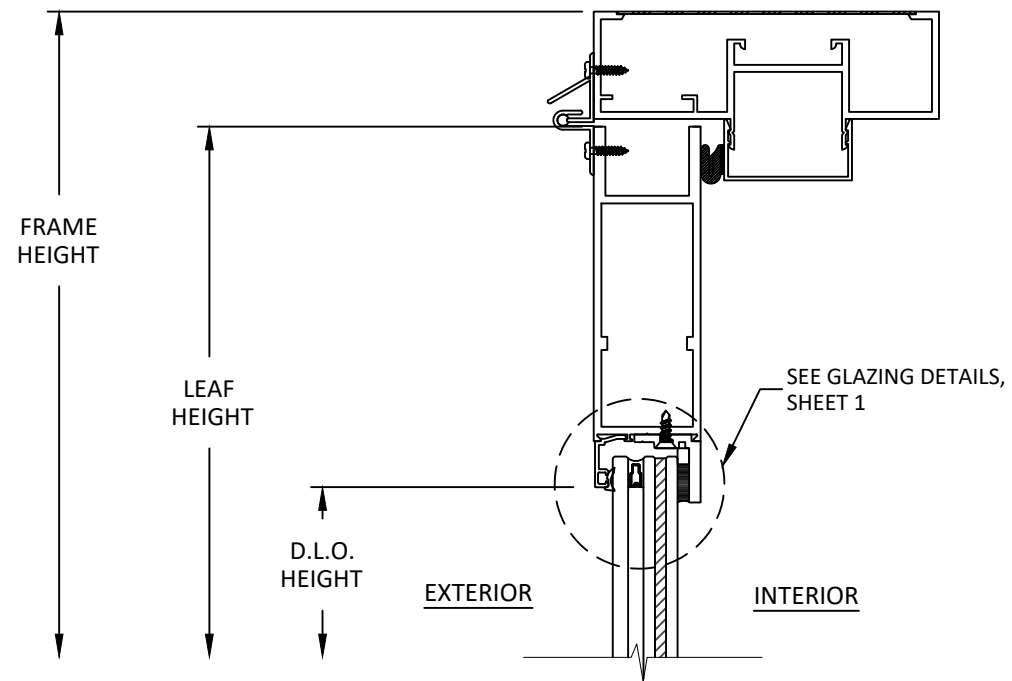
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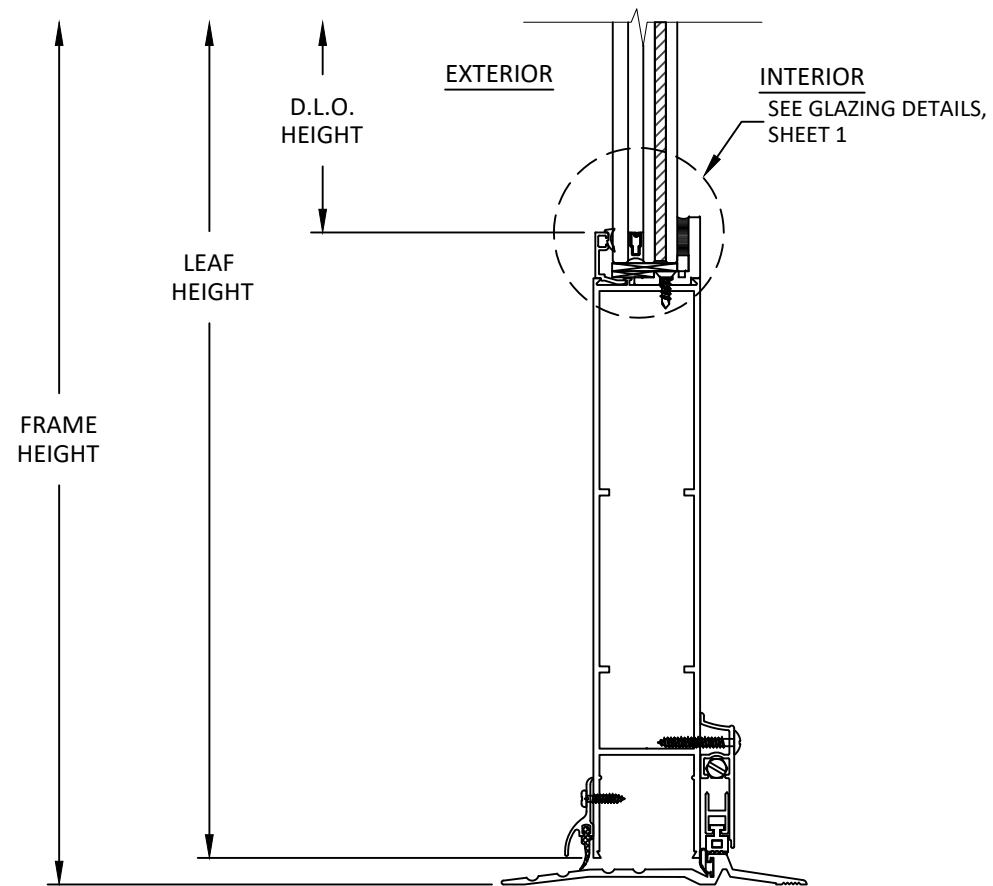
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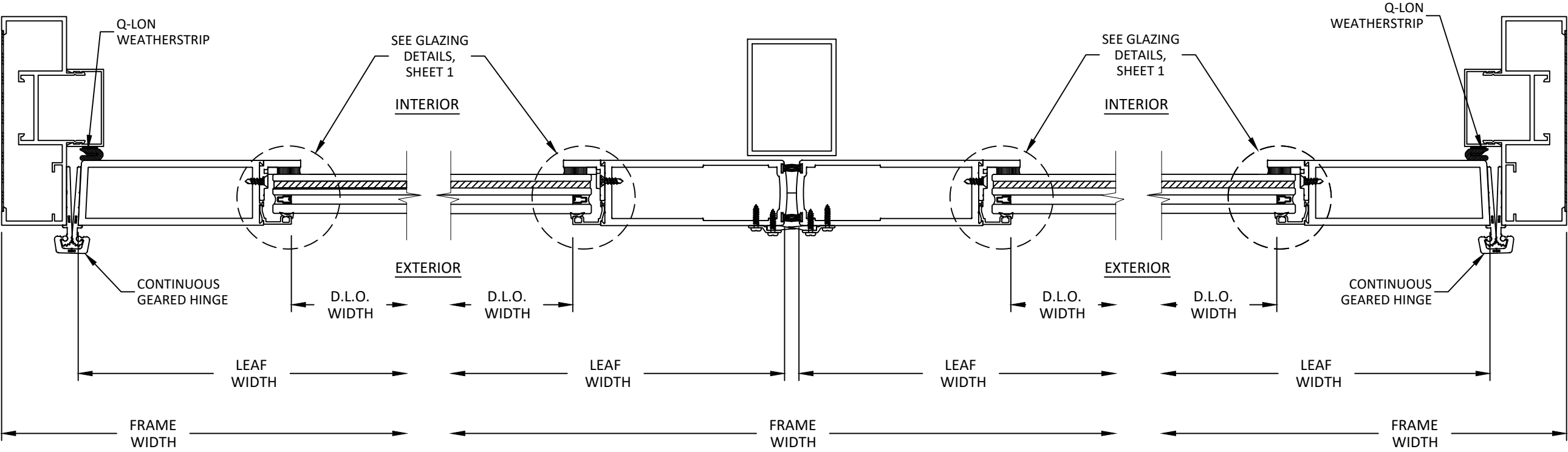
A
4 **VERTICAL SECTION**
HEAD



B
4 **VERTICAL SECTION**
SILL

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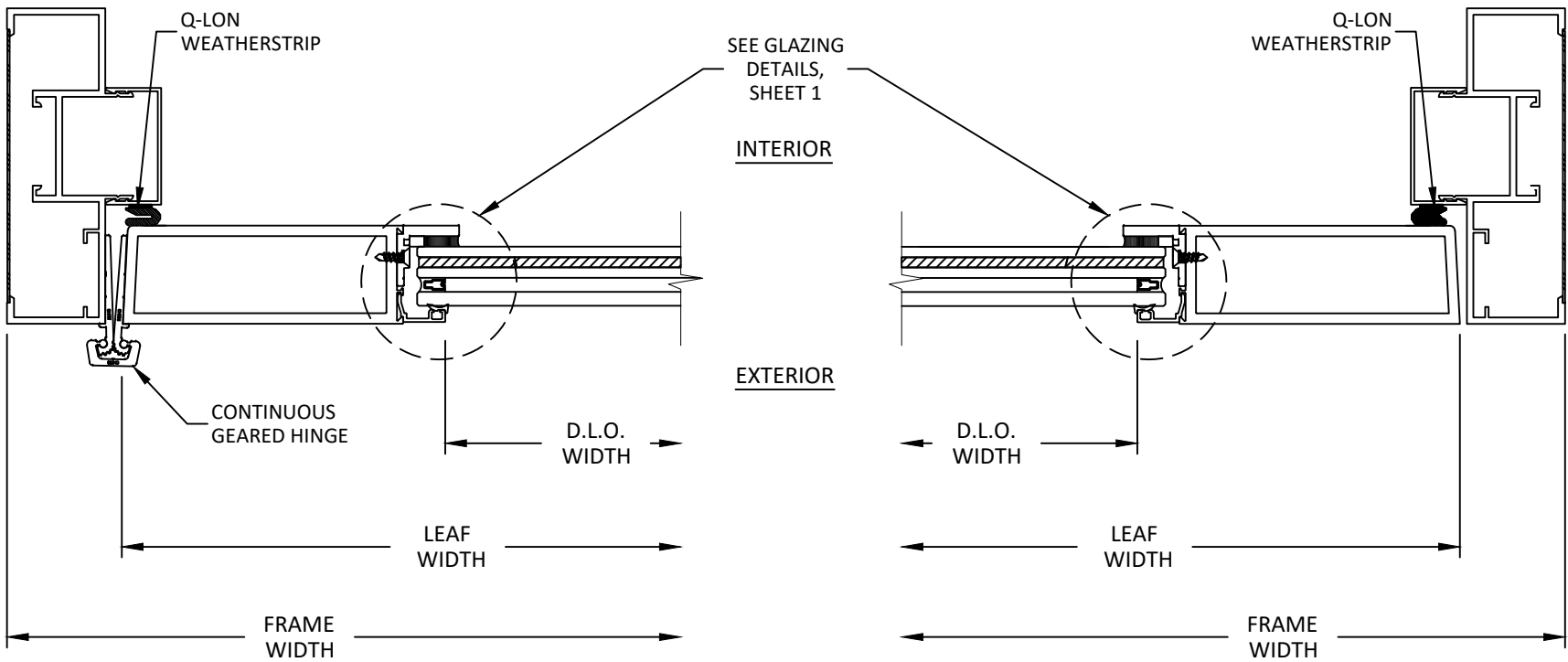
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A
5 HORIZONTAL SECTION
HINGE JAMB
DOUBLE DOOR

B
5 HORIZONTAL SECTION
MEETING STILE
DOUBLE DOOR

C
5 HORIZONTAL SECTION
HINGE JAMB
DOUBLE DOOR



D
5 HORIZONTAL SECTION
HINGE JAMB
SINGLE DOOR

E
5 HORIZONTAL SECTION
LOCK JAMB
SINGLE DOOR



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TITLE: WS512 HD SERIES DOOR
(SINGLE/DOUBLE)
(WZ3) (MISSILE LEVEL E)

HORIZONTAL SECTIONS

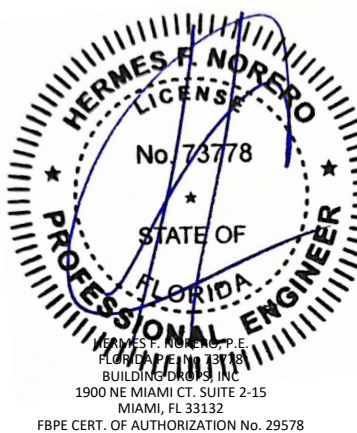
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SCALE:	NTS
DWG. #:	ARC021
SHEET:	5
REV.	0



NOTE: NO ANCHORS AT SILL

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN ON SHEET 3.
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 $\pm 1/2$ INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (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). SEE ABOVE FOR MAXIMUM ALLOWABLE SHIM STACK PER INSTALLATION METHOD. 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, 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.
 - 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).
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				
METHOD	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	WOOD: MIN. SG = 0.55	#12 WOOD SCREW	1.50"	0.75"
	METAL: STEEL 18 GA. MIN. Fy = 33KSI, ALUMINUM 1/8" MIN. 6063-T5	#12 SELF-DRILLING OR SELF-TAPPING SCREW	3 THREADS MIN. PENETRATION BEYOND METAL	0.75"
	CONCRETE: MIN. F'c = 3000 PSI	1/4" ITW TAPCON	1.75"	2.50"
	MASONRY: PER ASTM C90 MIN. F'c = 2000 PSI	1/4" ITW TAPCON	1.00"	2.50"

