

TUBELITE, INC.

ALUMINUM ENTRANCE DOORS (NON-IMPACT) (NON-HVHZ)

TUBELITE
DEPENDABLE

LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS

3056 WALKER RIDGE DRIVE N.W.
WALKER, MICHIGAN 49544
PH: 800 866 2227 FX: 616 301 0008

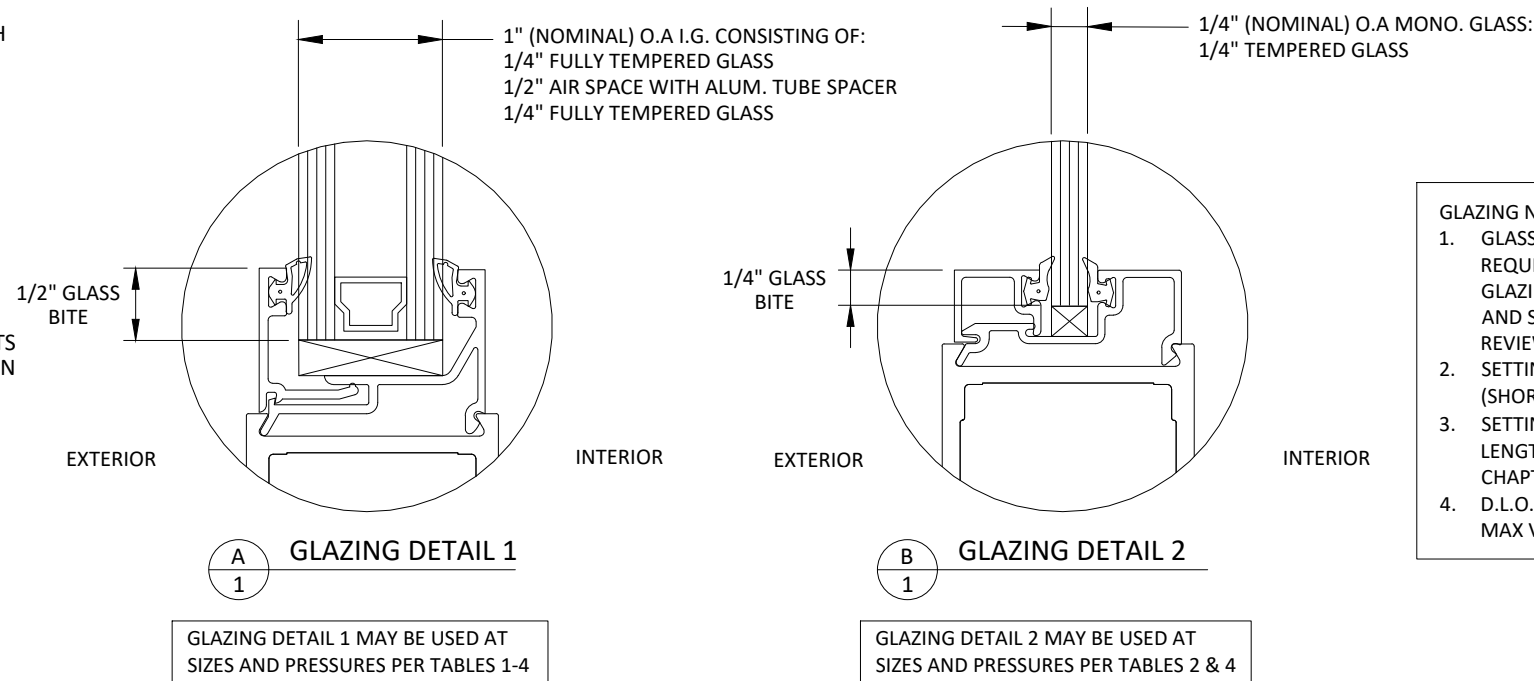
GENERAL NOTES:

- 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:
 - ASTM E283-04
 - ASTM E330-02
 - ASTM E331-00
 - ASTM E2068-00
 - AAMA 1304-02
- 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 **REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- DOOR FRAME MATERIAL: *ALUMINUM 6063-T5 MIN.*
- DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM COMPONENTS SHALL BE PROTECTED IN ACCORDANCE WITH THE FBC.
- IF AUTHORITY HAVING JURISDICTION REQUIRES THAT PRODUCT MEETS WATER INFILTRATION REQUIREMENT, PRODUCT SHALL BE USED WHEN INSTALLED AT LOCATION PROTECTED BY OVERHANG SUCH THAT OVERHANG (OH) RATIO=OH LENGTH÷OH HEIGHT IS ≥ 1.0

10. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:

- X: OPERABLE PANEL
O: FIXED PANEL

TABLE OF CONTENTS		
SHEET	REVISION	SHEET DESCRIPTION
1	-	GENERAL NOTES & GLAZING DETAIL
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GLAZING NOTES:

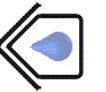
- GLASS TYPE SHALL COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
- SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
- SETTING BLOCKS 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 SIZE CHARTS.

TITLE: ALUMINUM ENTRANCE
DOORS (NON-IMPACT)
(NON-HVHZ)

GENERAL NOTES & GLAZING DETAIL

PREPARED BY:

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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REMARKS	BY	DATE

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FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL28368**

DATE: **9.25.18**

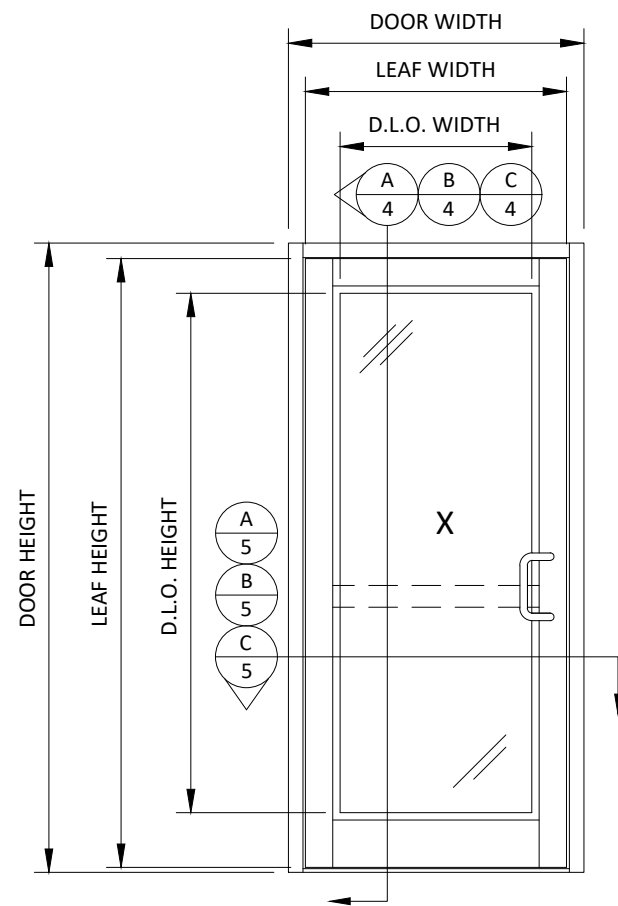
DWG. BY: **JA** CHK. BY: **HFN**

SCALE: **NTS**

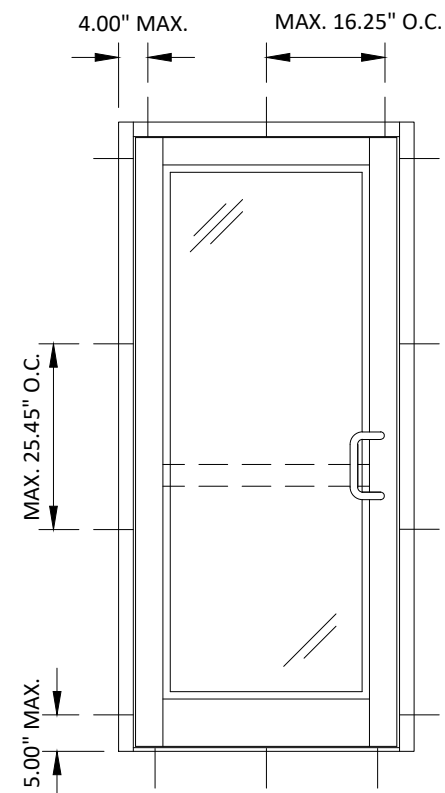
DWG. #: **TLI001**

SECTION
1
OF 10

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A
2 SINGLE DOOR ELEVATION



B
2 SINGLE DOOR ANCHOR LAYOUT

SINGLE MEDIUM AND WIDE STILE DOOR DESIGN PRESSURE, TABLE 1 (PSF)							
LEAF WIDTH (INCHES)							
	30.00	36.00	42.00	48.00	54.00	60.00	
LEAF HEIGHT (INCHES)	84.00	56.6	48.5	42.7	38.6	35.5	33.2
90.00	45.9	39.1	34.3	30.9	28.3	26.4	
96.00	37.6	31.9	27.9	25.1	22.9	21.3	
102.00	31.2	26.4	23.1	20.6	18.8		
108.00	26.2	22.2	19.3	17.2	15.6		

SINGLE NARROW STILE DOOR DESIGN PRESSURE, TABLE 2 (PSF)							
LEAF WIDTH (INCHES)							
	30.00	36.00	42.00	48.00	54.00	60.00	
LEAF HEIGHT (INCHES)	84.00	34.0	29.2	25.8	23.3	21.4	20.0
90.00	27.7	23.5	20.7	18.6	17.1	15.9	
96.00	22.7	19.2	16.8	15.1			
102.00	18.8	15.9					
108.00	15.8						

D.L.O. WIDTH = LEAF WIDTH - 2 (1" + STILE FACE WIDTH)
 D.L.O. HEIGHT = LEAF HEIGHT - (2" + BOTTOM RAIL FACE HEIGHT + BOTTOM RAIL FACE HEIGHT)

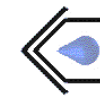
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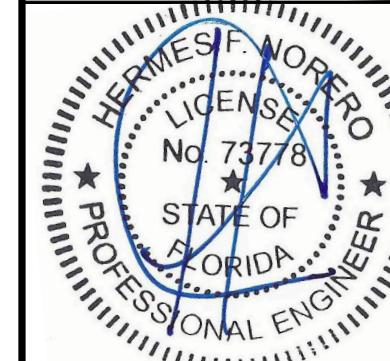
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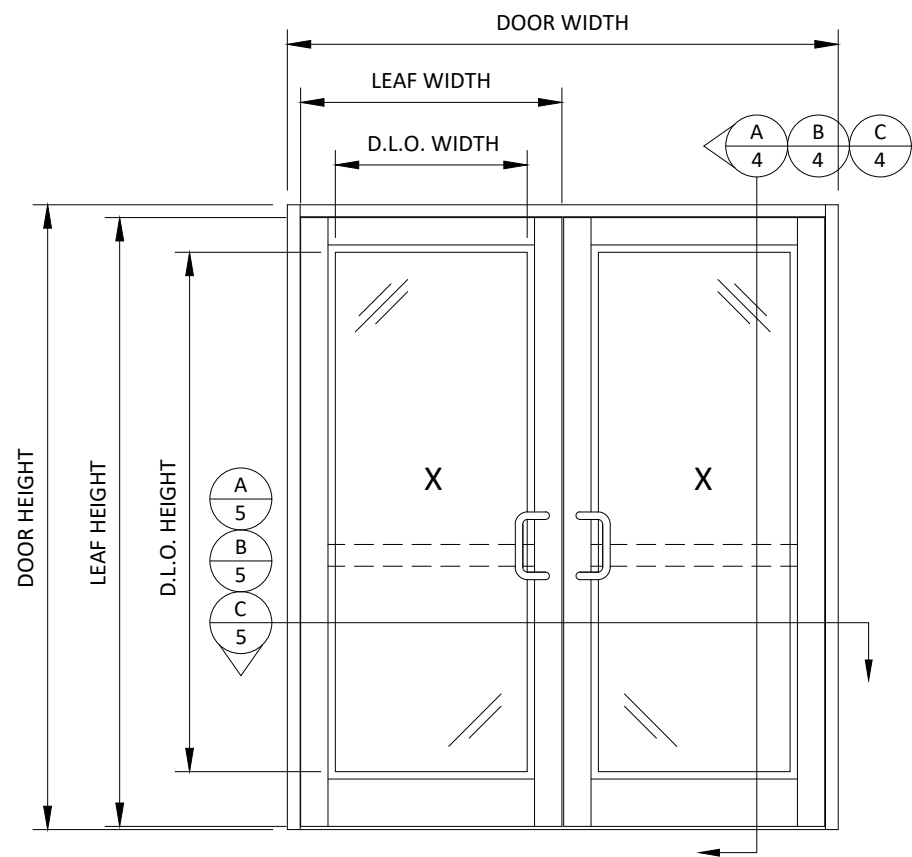
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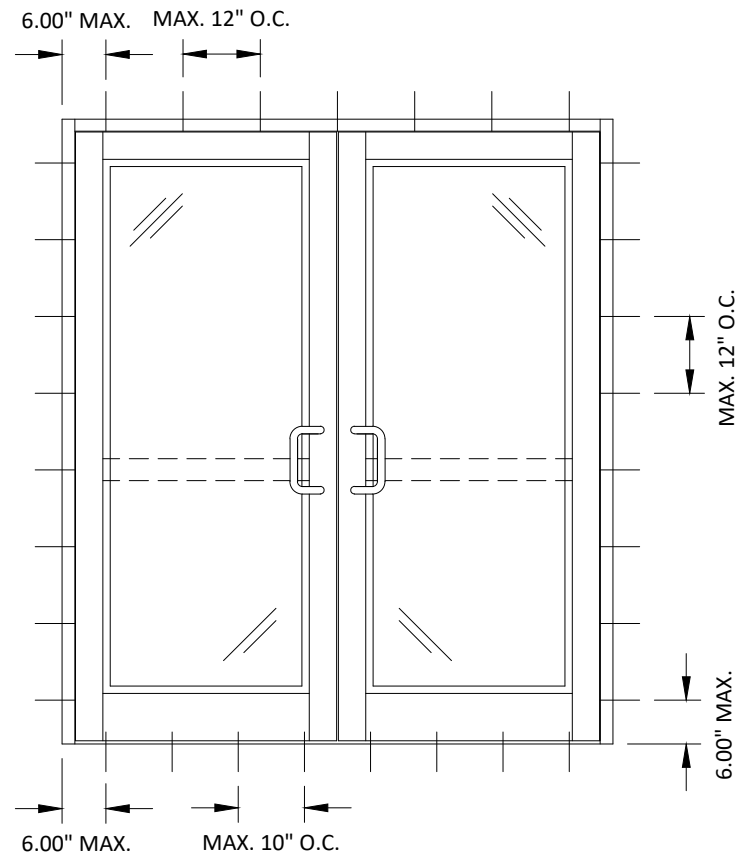
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2
 OF 10

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A
3
DOUBLE DOOR ELEVATION



B
3
DOUBLE DOOR ANCHOR LAYOUT

DOUBLE MEDIUM AND WIDE STILE DOOR DESIGN PRESSURE, TABLE 3 (PSF)							
LEAF WIDTH (INCHES)							
LEAF HEIGHT (INCHES)	30.00	36.00	42.00	48.00	54.00	60.00	
84.00	56.6	48.5	42.7	38.6	35.5	33.2	
90.00	45.9	39.1	34.3	30.9	28.3	26.4	
96.00	37.6	31.9	27.9	25.1	22.9	21.3	
102.00	31.2	26.4	23.1	20.6	18.8		
108.00	26.2	22.2	19.3	17.2	15.6		

DOUBLE NARROW STILE DOOR DESIGN PRESSURE, TABLE 4 (PSF)							
LEAF WIDTH (INCHES)							
LEAF HEIGHT (INCHES)	30.00	36.00	42.00	48.00	54.00	60.00	
84.00	34.0	29.2	25.8	23.3	21.4	20.0	
90.00	27.7	23.5	20.7	18.6	17.1	15.9	
96.00	22.7	19.2	16.8	15.1			
102.00	18.8	15.9					
108.00	15.8						

D.L.O. WIDTH = LEAF WIDTH - 2 (1" + STILE FACE WIDTH)
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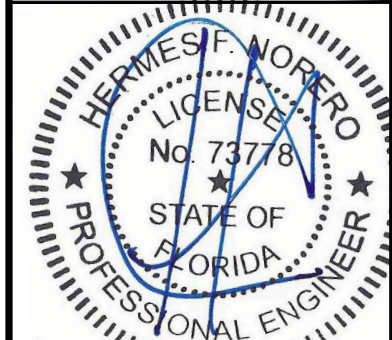
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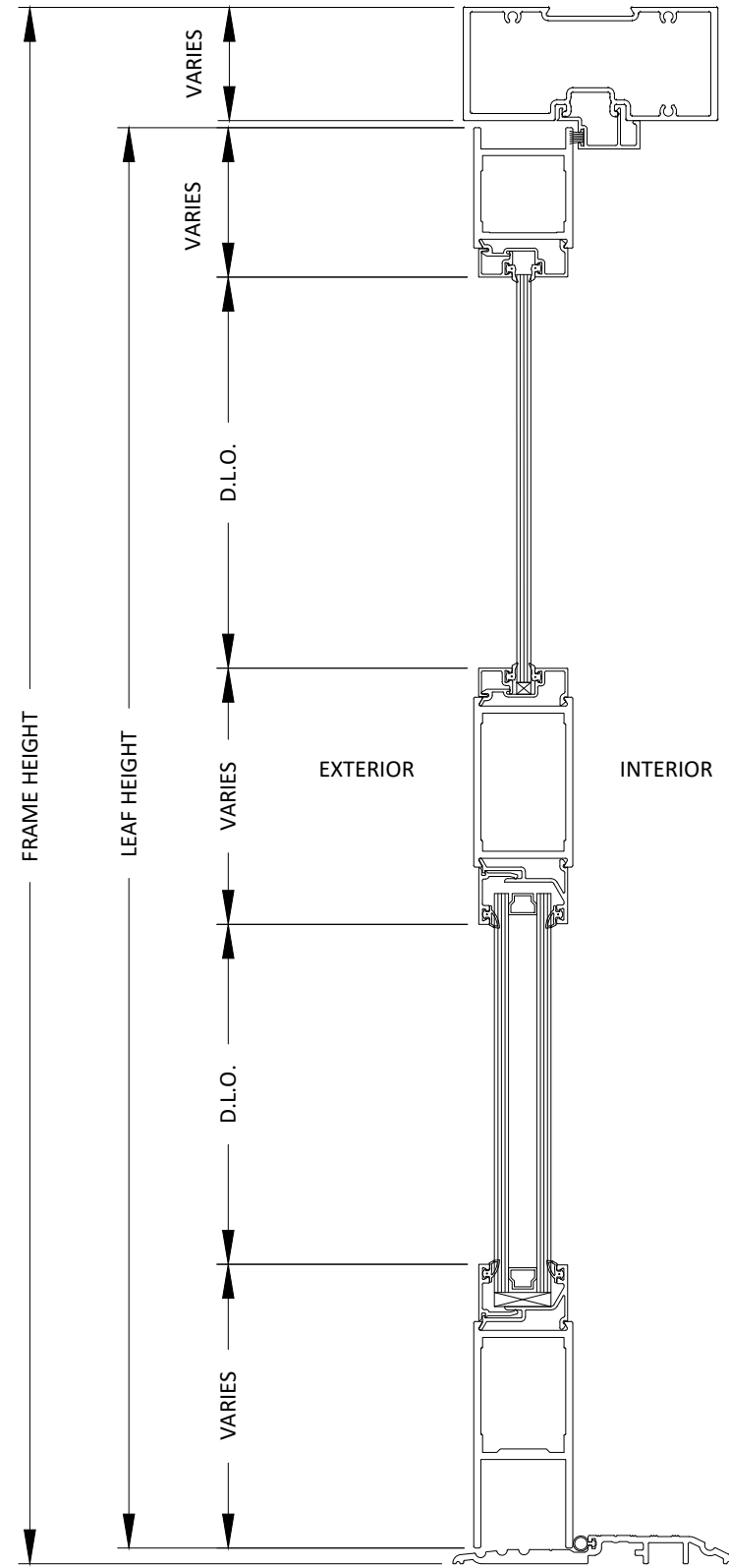
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SECTION
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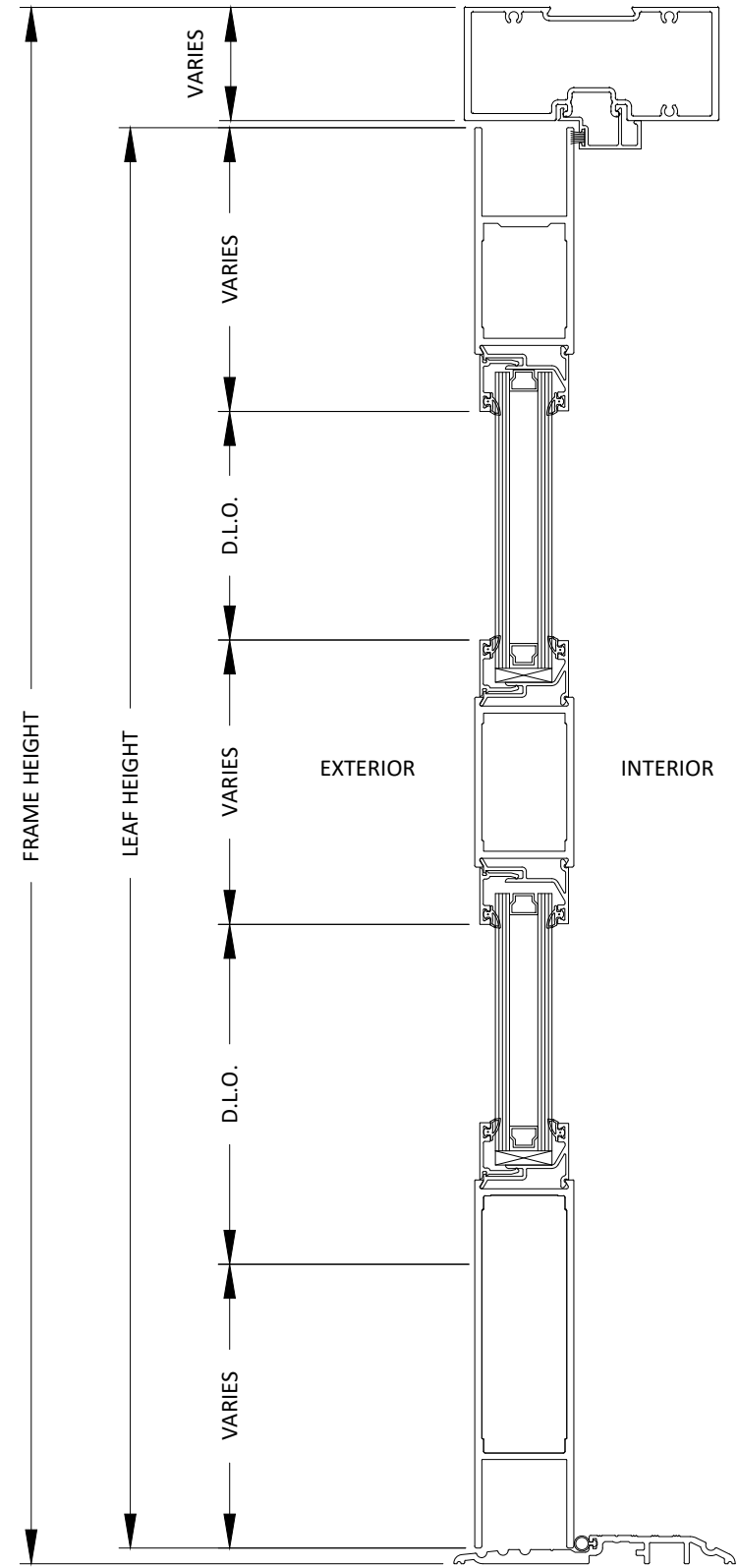
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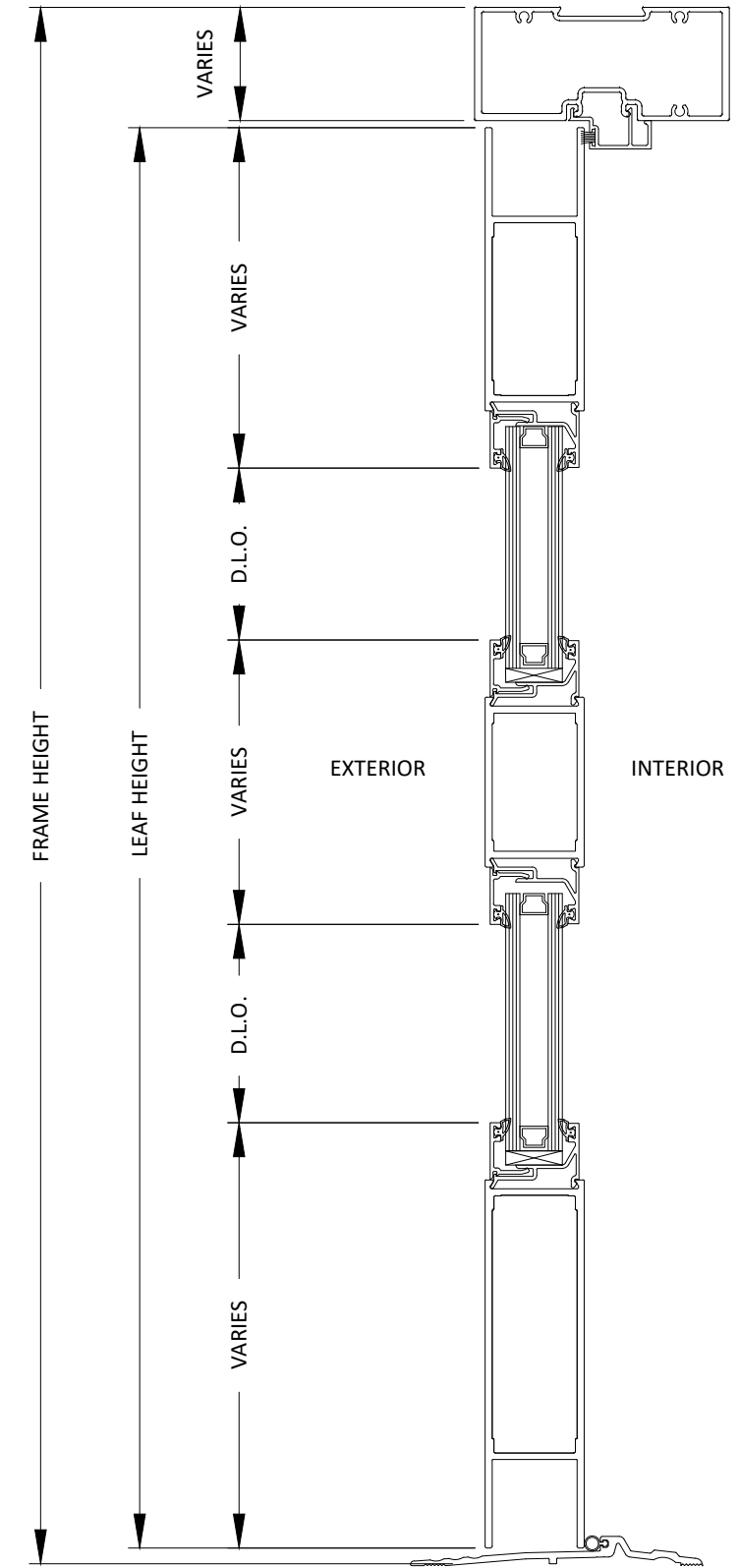
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A
4 HORIZONTAL DETAILS
NARROW STILE



B
4 HORIZONTAL DETAILS
MEDIUM STILE




C
4 HORIZONTAL DETAILS
WIDE STILE

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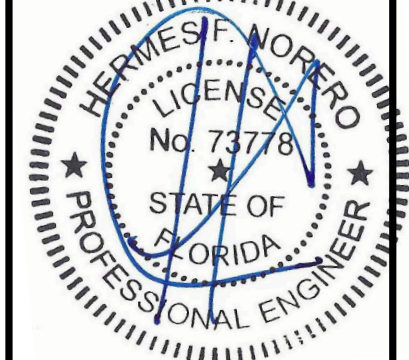
3056 WALKER RIDGE DRIVE N.W.
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TITLE: ALUMINUM ENTRANCE
DOORS (NON-IMPACT)
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HORIZONTAL DETAILS

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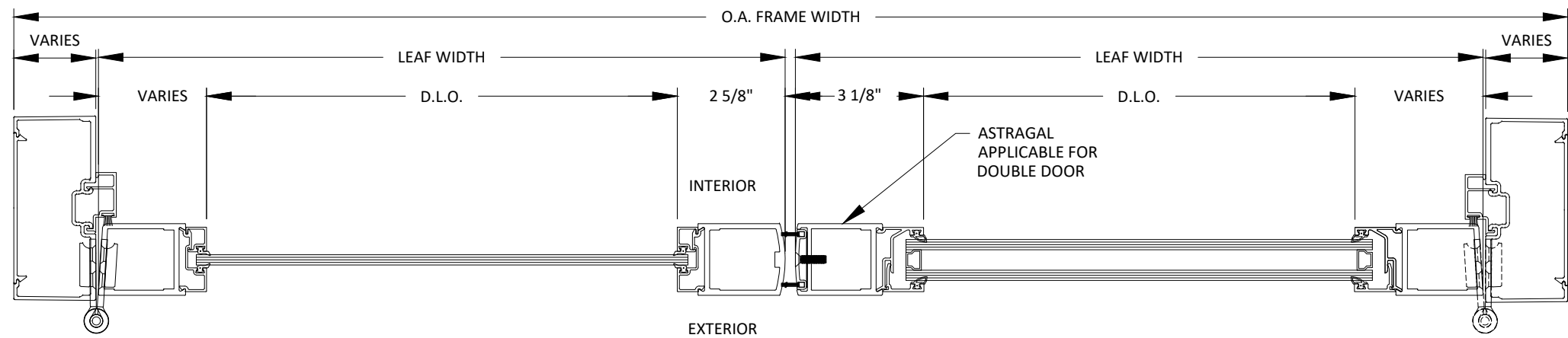
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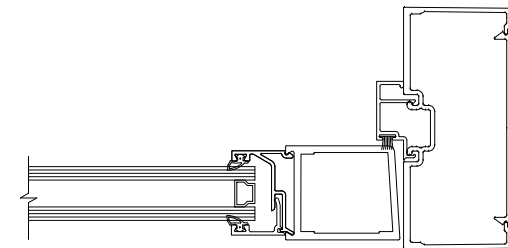
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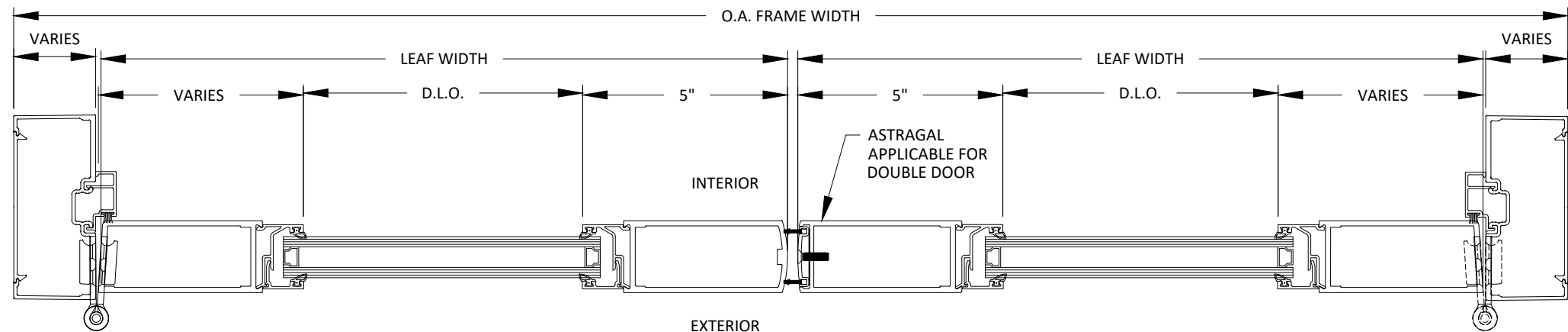
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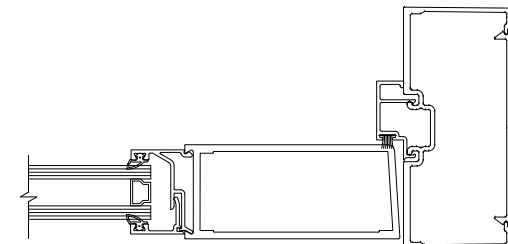
A
5 VERTICAL DETAILS
NARROW STILE



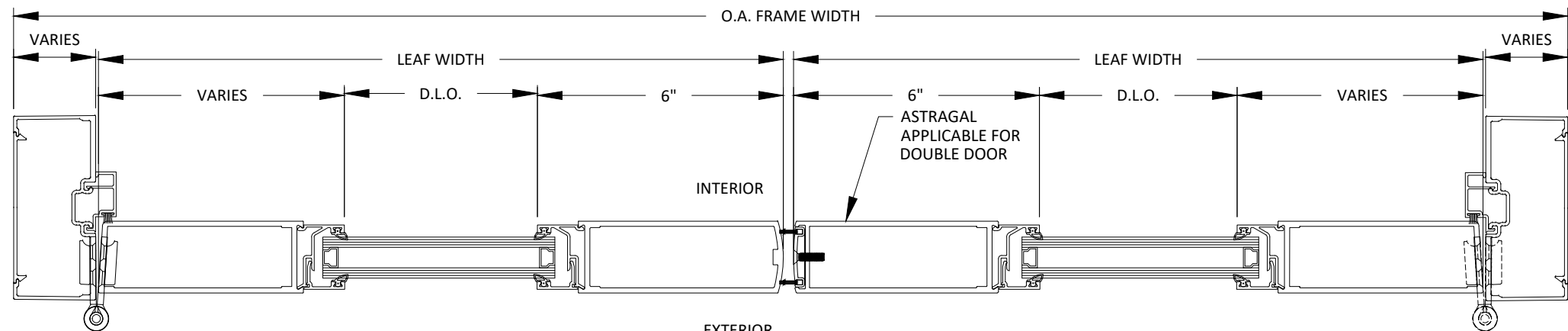
SINGLE DOOR RIGHT
SIDE DETAIL



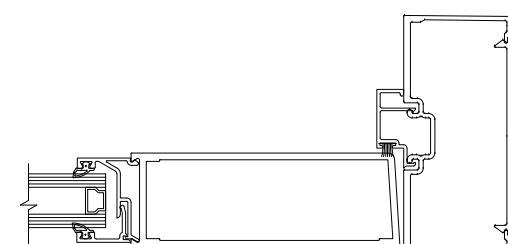
B
5 VERTICAL DETAILS
MEDIUM STILE



SINGLE DOOR RIGHT
SIDE DETAIL



C
5 VERTICAL DETAILS
WIDE STILE



SINGLE DOOR RIGHT
SIDE DETAIL

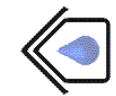
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TITLE: ALUMINUM ENTRANCE
DOORS (NON-IMPACT)
(NON-HVHZ)
VERTICAL DETAILS

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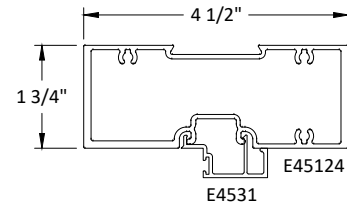
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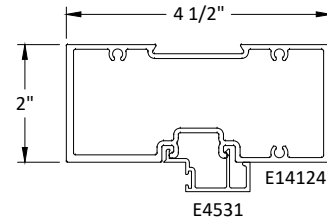
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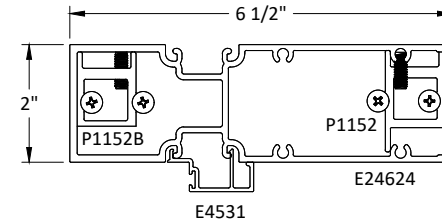
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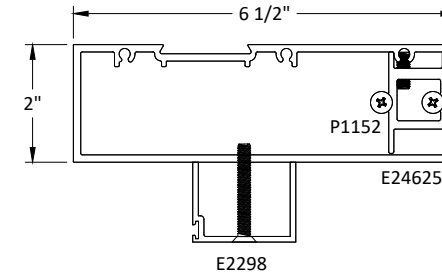
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6 HEAD OPTION 1



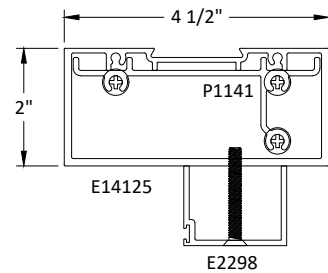
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6 HEAD OPTION 2



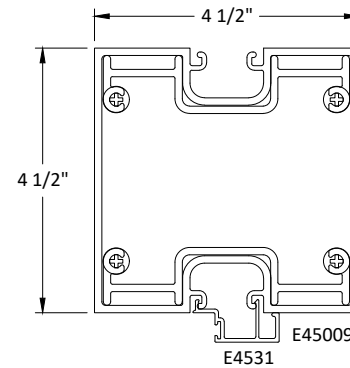
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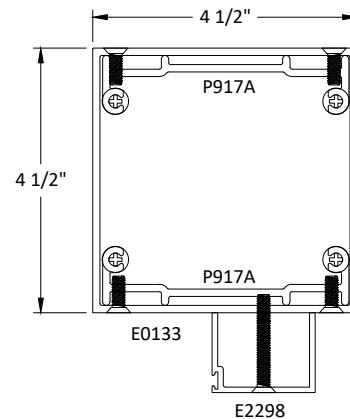
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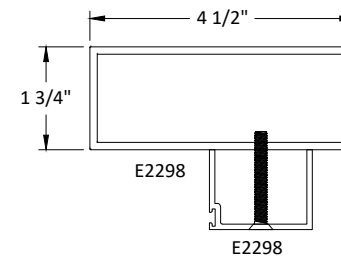
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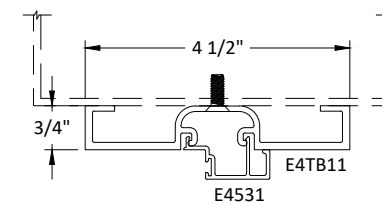
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6 HEAD OPTION 6



G
6 HEAD OPTION 7

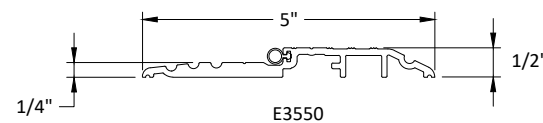


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6 HEAD OPTION 8
OVERHEAD CONCEALED CLOSER

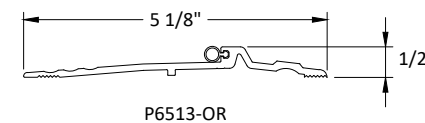


I
6 SUBFRAME HEAD OPTION 9

SILL PROFILE OPTIONS



J
6 SILL OPTION 1



K
6 SILL OPTION 2


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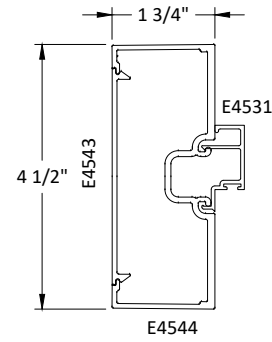
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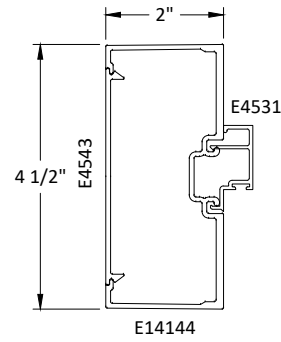
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6

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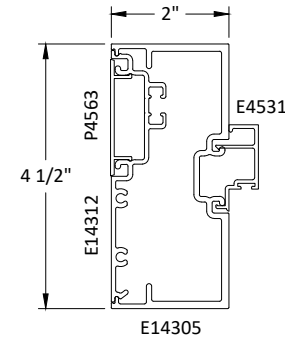
JAMB PROFILE OPTIONS



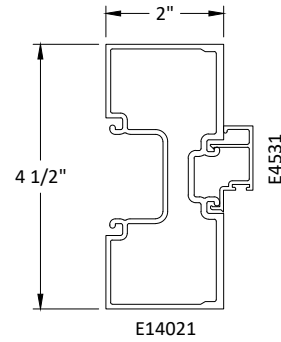
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7 JAMB OPTION 1



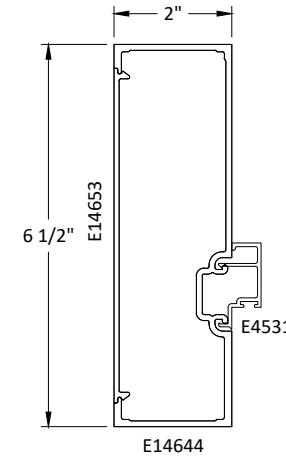
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7 JAMB OPTION 2



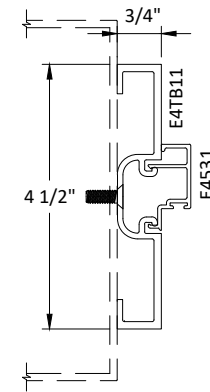
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7 JAMB OPTION 3



D
7 JAMB OPTION 4

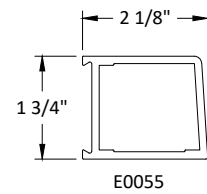


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7 JAMB OPTION 5

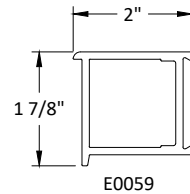


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7 SUBFRAME JAMB OPTION 6

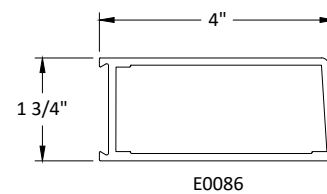
STILE PROFILE OPTIONS



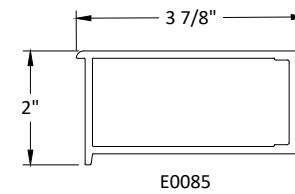
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7 NARROW STILE, OPTION 1



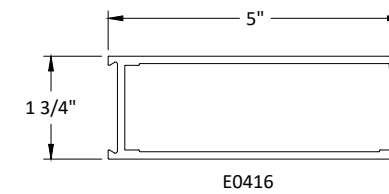
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7 NARROW STILE, OPTION 2



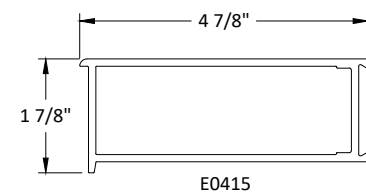
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7 MEDIUM STILE, OPTION 3



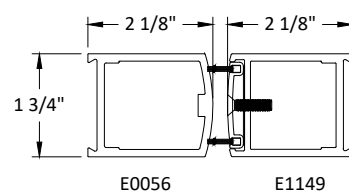
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7 MEDIUM STILE, OPTION 4



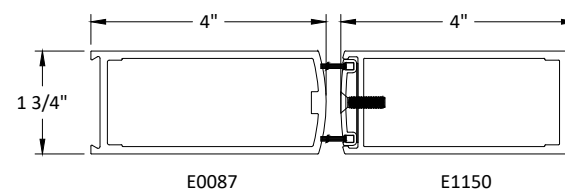
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7 WIDE STILE, OPTION 5



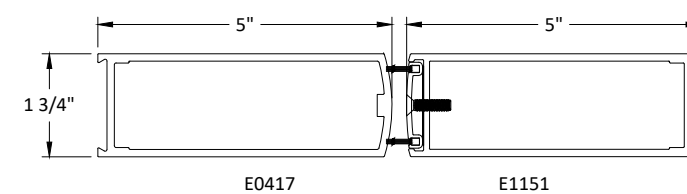
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7 WIDE STILE, OPTION 6



M
7 NARROW STILE, OPTION 7



N
7 MEDIUM STILE, OPTION 8




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7 WIDE STILE, OPTION 9

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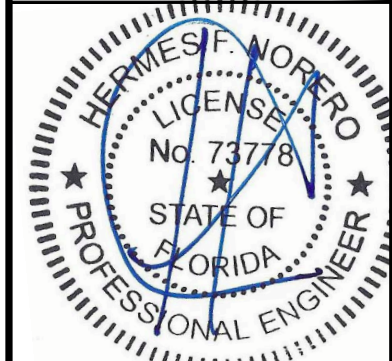
3056 WALKER RIDGE DRIVE N.W.
WALKER, MICHIGAN 49544
PH: 800 866 2227 FX: 616 301 0008

TITLE: ALUMINUM ENTRANCE
DOORS (NON-IMPACT)
(NON-HVHZ)
JAMB & STILE OPTIONS

PREPARED BY:

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL28368**

DATE: **9.25.18**

DWG. BY: **JA** CHK. BY: **HFN**

SCALE: **NTS**

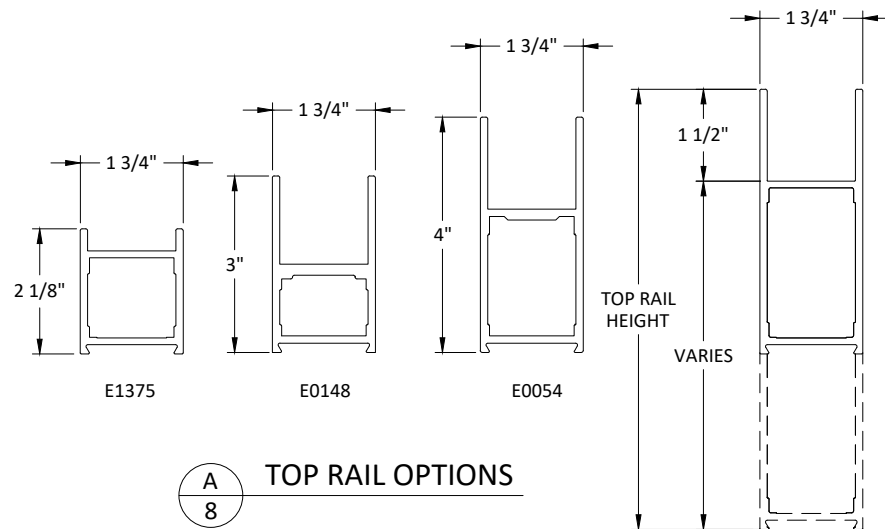
DWG. #: **TLI001**

SECTION
7

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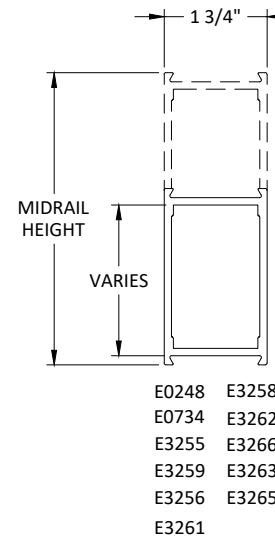
RAIL PROFILE OPTIONS



A
8 TOP RAIL OPTIONS

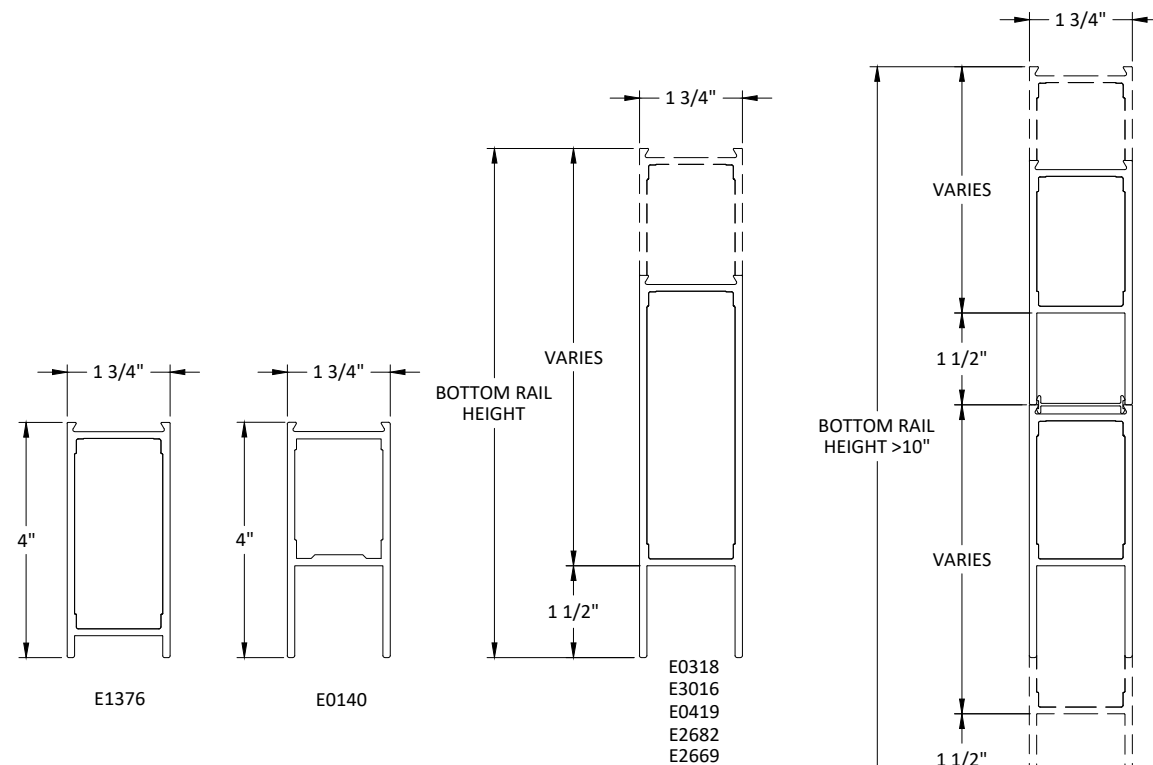
TOP RAIL LIMITATIONS		
PROFILE	TOP RAIL HEIGHT	DESIGN PRESSURE
E1375	2 1/8"	TABLE 2, TABLE 4
E0148	3"	TABLE 2, TABLE 4
E0054	4"	TABLE 1, TABLE 2, TABLE 3, TABLE 4
E0140	4 1/2"	TABLE 1, TABLE 2, TABLE 3, TABLE 4
E0318	5"	TABLE 1, TABLE 2, TABLE 3, TABLE 4
E3016	6"	TABLE 1, TABLE 2, TABLE 3, TABLE 4
E0419	6 1/2"	TABLE 1, TABLE 2, TABLE 3, TABLE 4
E2682	7 1/2"	TABLE 1, TABLE 2, TABLE 3, TABLE 4
E2669	10"	TABLE 1, TABLE 2, TABLE 3, TABLE 4

E0140
E0318
E3016
E0419
E2682



MIDRAIL LIMITATIONS			
PROFILE	MIDRAIL HEIGHT	MAX. DOOR WIDTH	MAX. HEIGHT ABOVE MIDRAIL
E0248	1"	30"	10"
E0734	1.75"	48"	90"
E3255	2"	54"	100"
E3259	3"	54"	120"
E3256	4"	60"	120"
E3261	4.5"	60"	120"
E3258	5"	60"	120"
E3262	6"	60"	120"
E3266	6.5"	60"	120"
E3263	7.5"	60"	120"
E3265	10"	60"	120"

B
8 MIDRAIL OPTIONS



C
8 BOTTOM RAIL OPTIONS

BOTTOM RAIL LIMITATIONS		
PROFILE	BOTTOM RAIL HEIGHT	DESIGN PRESSURE
E1376	4"	TABLE 2, TABLE 4
E0140	4 1/2"	TABLE 2, TABLE 4
E0318	5"	TABLE 2, TABLE 4
E3016	6"	TABLE 2, TABLE 4
E0419	6 1/2"	TABLE 1, TABLE 2, TABLE 4
E2682	7 1/2"	TABLE 1, TABLE 2, TABLE 4
E2669	10"	TABLE 1, TABLE 2, TABLE 4
E3016 + E3016	12"	TABLE 1, TABLE 2, TABLE 3, TABLE 4
E2669 + E3016	16"	TABLE 1, TABLE 2, TABLE 3, TABLE 4
E2669 + E2669	20"	TABLE 1, TABLE 2, TABLE 3, TABLE 4

E3016 + E3016
E2669 + E3016
E2669 + E2669

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3056 WALKER RIDGE DRIVE N.W.
WALKER, MICHIGAN 49544
PH: 800 866 2227 FX: 616 301 0008

TITLE: ALUMINUM ENTRANCE
DOORS (NON-IMPACT)
(NON-HVHZ)
RAIL OPTIONS

PREPARED BY:
BUILDING DROPS, INC.
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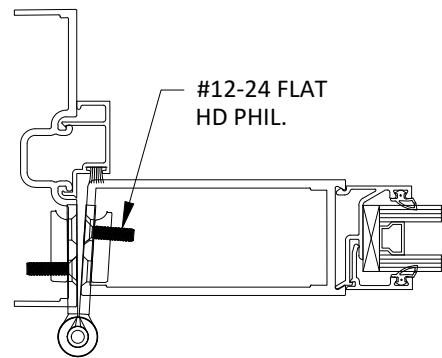
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FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL28368
DATE:	9.25.18
DWG. BY:	JA
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	TLI001

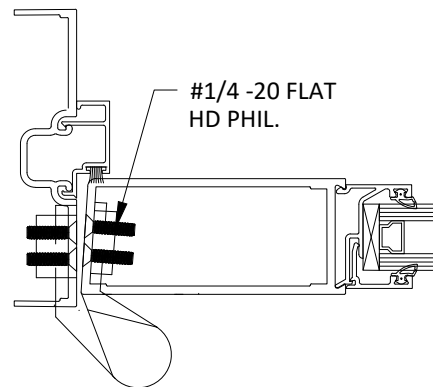
SECTION
8
OF 10

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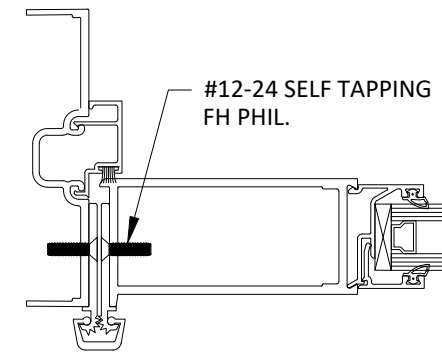
HINGE OPTIONS



A BUTT HINGE
9 HAGER BB-1199

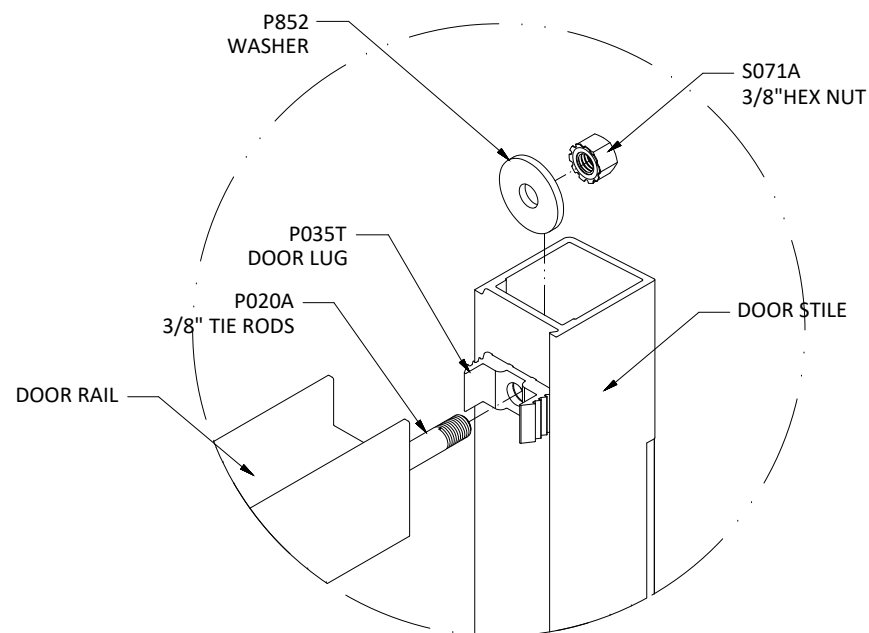


B OFFSET PIVOT HINGE
9 RIXON 180



C CONTINUOUS HINGE
9 27 HD HINGE

RAIL - STILE CONNECTION DETAIL



QUALIFIED HARDWARE OPTIONS		
PRODUCT NAME	PRODUCT TYPE	MAX. DESIGN PRESSURE (PSF)
SARGENT AD/MD8400	CONCEALED VERTICAL ROD	+/- 50
VON DUPRIN 98/9947	CONCEALED VERTICAL ROD	+/-50
VON DUPRIN 98/9949	CABLE EXIT DEVICE	+/-50
SARGENT MD8600	CONCEALED VERTICAL ROD	+/-50
FALCON 1690	CONCEALED VERTICAL ROD	+/-50
JACKSON 2086	CONCEALED VERTICAL ROD	+/-50
ADAMS RITE G86	CONCEALED VERTICAL ROD	+/-50
FALCON HSEC 1690	CONCEALED VERTICAL ROD	+/-50
HAGUER BB-1199	BUTT HINGE	+/-50
RIXON 180	OFFSET PIVOT HINGE	+/-50
RIXON 147	OFFSET PIVOT HINGE	+/-50
RIXON M19L	OFFSET PIVOT HINGE	+/-50
27 HD	CONTINUOUS HINGE	+/-50
FIRST CHOICE 3600	CONCEALED VERTICAL ROD	+/- 50

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PH: 800 866 2227 FX: 616 301 0008


TITLE: ALUMINUM ENTRANCE
DOORS (NON-IMPACT)
(NON-HVHZ)
HARDWARE OPTIONS & RAIL-STILE
CONNECTION DETAIL

PREPARED BY:

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DWG. BY: **JA** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **TLI001**

SECTION
9

OF 10

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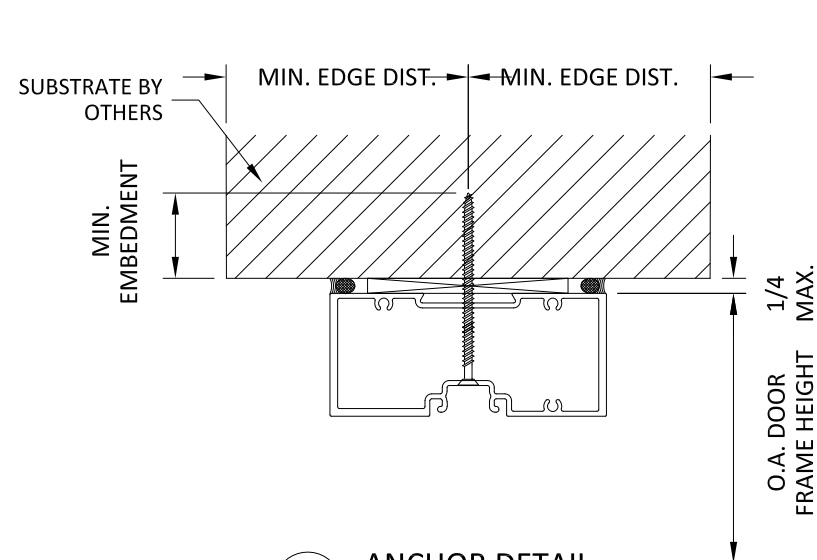
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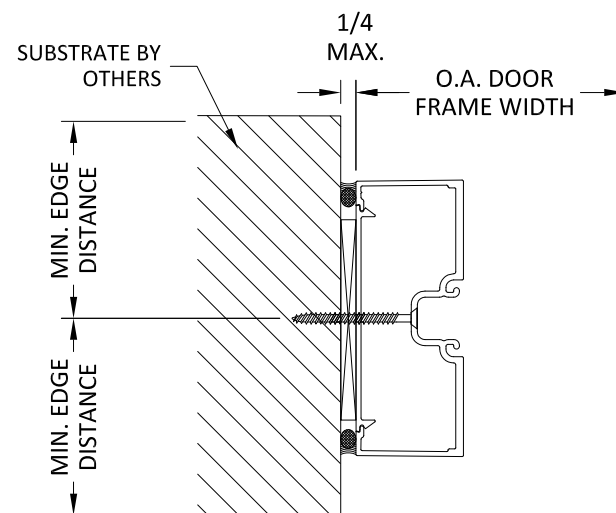
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TITLE: ALUMINUM ENTRANCE
DOORS (NON-IMPACT)
(NON-HVHZ)
ANCHOR DETAILS, SCHEDULE &
INSTALLATION NOTES

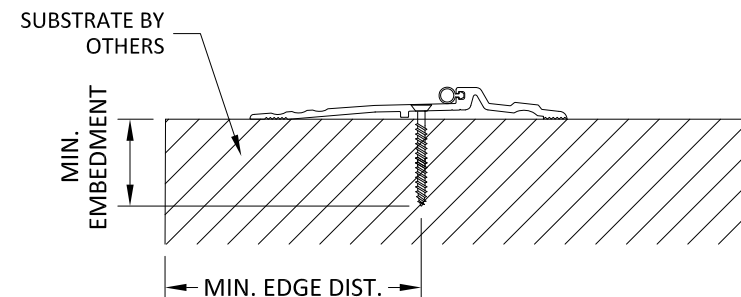
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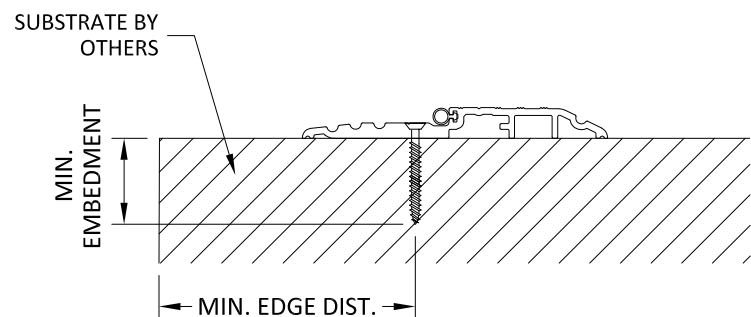
A
10 ANCHOR DETAIL
DOOR HEAD OR JAMB



B
10 ANCHOR DETAIL
DOOR HEAD OR JAMB



C
10 ANCHOR DETAIL
DOOR THRESHOLD



D
10 ANCHOR DETAIL
DOOR THRESHOLD

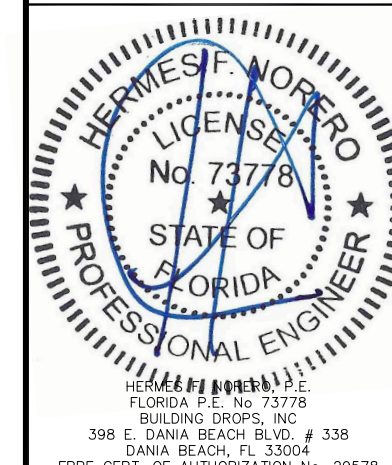
INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- 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.
- 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.
- 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.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - MASONRY - MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 0.05" (18 GAUGE).
 - ALUMINUM - MINIMUM 6063-T5 ALLOY. MINIMUM WALL THICKNESS OF 0.09".

ANCHOR SCHEDULE

SUBSTRATE	ANCHOR SCHEDULE	MIN EMBEDMENT	MIN. EDGE DISTANCE
WOOD: MIN. SG = 0.55	#12 WOOD SCREW	1.5"	1"
METAL: 18 GAUGE STEEL, MIN. Fy=33KSI OR 0.09" ALUMINUM 6063-T5 MIN.	#12 TEK SCREW GRADE 5	3 THREADS MIN PENETRATION BEYOND METAL	0.5"
CONCRETE: f _c = 3000PSI	1/4" ITW TAPCON	1.75"	1.5"
	1/4" ELCO ULTRACON	1.75"	1.5"
	1/4"HILTI KWIK-CON II	1"	1.5"
MASONRY: CMU per ASTM C90 f _c = 2000PSI	1/4" ITW TAPCON	1"	2"
	1/4" ELCO ULTRACON	1.25"	2.5"
	1/4" HILTI KWIK-CON II	1"	1.25"

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SECTION	10
	OF 10

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