

c:\users\msun\building drops, inc\building drops landing - common\projects\tubelite, inc\fbc-24-0953 - fbc submittal - storefront tu additions, aluminum entrance doors\dwgs\tli030.dwg 10/24/2024 8:27 AM

TUBELITE, INC.

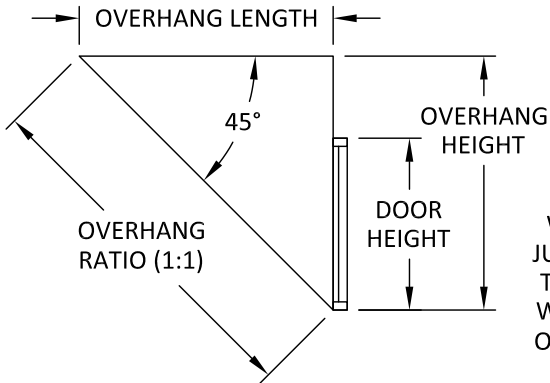
STANDARD/THERMAL/MONUMENTAL ENTRANCE DOOR

(NON-HVHZ) (NON-IMPACT)

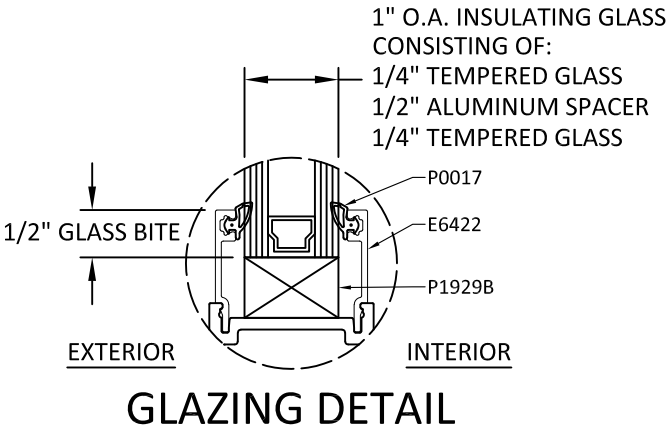
GENERAL NOTES:

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 E283-19

• ASTM E330-14(21)
2. 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.
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 REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. PROFILE MATERIALS: ALUMINUM 6063-T5.
7. 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.
8. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SECTION 1 FOR GLAZING DETAILS.



NOTE: PRODUCT HAS NOT BEEN RATED FOR WATER INFILTRATION. IF AUTHORITY HAVING JURISDICTION REQUIRES THAT PRODUCT MEETS THIS REQUIREMENT, PRODUCT SHALL BE USED WHEN INSTALLED AT LOCATION PROTECTED BY OVERHANG SUCH THAT OVERHANG (OH) RATIO = OH LENGTH ÷ OH HEIGHT IS ≥1.0



1" O.A. INSULATING GLASS
CONSISTING OF:
1/4" TEMPERED GLASS
1/2" ALUMINUM SPACER
1/4" TEMPERED GLASS

- GLAZING NOTES:
1. GLASS TYPE & THICKNESS COMPLIES WITH ASTM E1300 REQUIREMENTS. 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 IN SECTION 2.

TABLE OF CONTENTS	
SECTION	SECTION DESCRIPTION
1	GENERAL NOTES AND GLAZING DETAIL
2	TYPICAL ELEVATIONS AND DESIGN PRESSURE TABLE
3	ANCHOR LAYOUTS
4	STANDARD HORIZONTAL DETAILS
4.1	STANDARD RAIL OPTIONS
5	THERMAL HORIZONTAL DETAILS
6.1	THERMAL RAIL OPTIONS
6	MONUMENTAL HORIZONTAL DETAILS
5.1	MONUMENTAL RAIL OPTIONS
7	STANDARD VERTICAL DETAILS
8	THERMAL VERTICAL DETAILS
9	MONUMENTAL VERTICAL DETAILS
10	DOOR HEADER OPTIONS
11	DOOR JAMB OPTIONS
12	HARDWARE OPTIONS
13	INSTALLATION DETAILS
14	INSTALLATION NOTES AND ANCHOR SPECIFICATIONS

DESIGN PRESSURE RATING		
FRAME DIMENSION	DESIGN PRESSURE	MISSILE RATING
SEE SECTION 2		NON-IMPACT RATED

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3056 WALKER RIDGE DRIVE NW
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PH: (800) 866-2227 FX: (616) 301-0008

TITLE:
STANDARD/THERMAL/MONUMENTAL
ENTRANCE DOOR
(NON-HVHZ) (NON-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

BUILDING DROPS

REMARKS	BY	DATE

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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

FL #:
FL28368

DATE:
10.08.2024

DWG. BY:
MS

CHK. BY:
HFN

SCALE:
NTS

DWG. #:
TLI030

SECTION:
1

[PAGE 1 of 17]

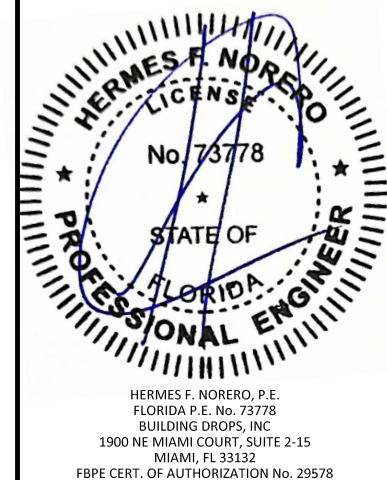


* SEE SECTIONS 4.1, 5.1, & 6.1 FOR MAX. D.L.O. WIDTH AND HEIGHT ABOVE MID-RAIL.

DOOR DESIGN PRESSURE TABLE (PSF)									
LEAF HEIGHT (INCHES)	LEAF WIDTH (INCHES)								
	24	27	30	33	36	39	42	45	48
80	43.68	39.70	36.01	32.76	30.00	27.25	24.97	23.03	21.38
84	41.25	37.45	34.43	32.00	29.82	27.25	24.97	23.03	21.38
87	38.75	34.73	31.55	28.98	26.86	25.11	23.63	22.37	21.31
90	34.93	31.29	28.41	26.07	24.15	22.55	21.21	20.06	19.08
93	31.60	28.29	25.67	23.55	21.80	20.34	19.11	18.06	17.16
96	28.68	25.67	23.28	21.34	19.74	18.41	17.28	16.32	15.50
99	26.12	23.36	21.18	19.40	17.94	16.72	15.68	-	-
102	23.85	21.32	19.32	17.69	16.35	15.23	-	-	-
105	21.83	19.52	17.68	16.18	-	-	-	-	-
108	20.04	17.91	16.21	-	-	-	-	-	-

REMARKS	BY	DATE

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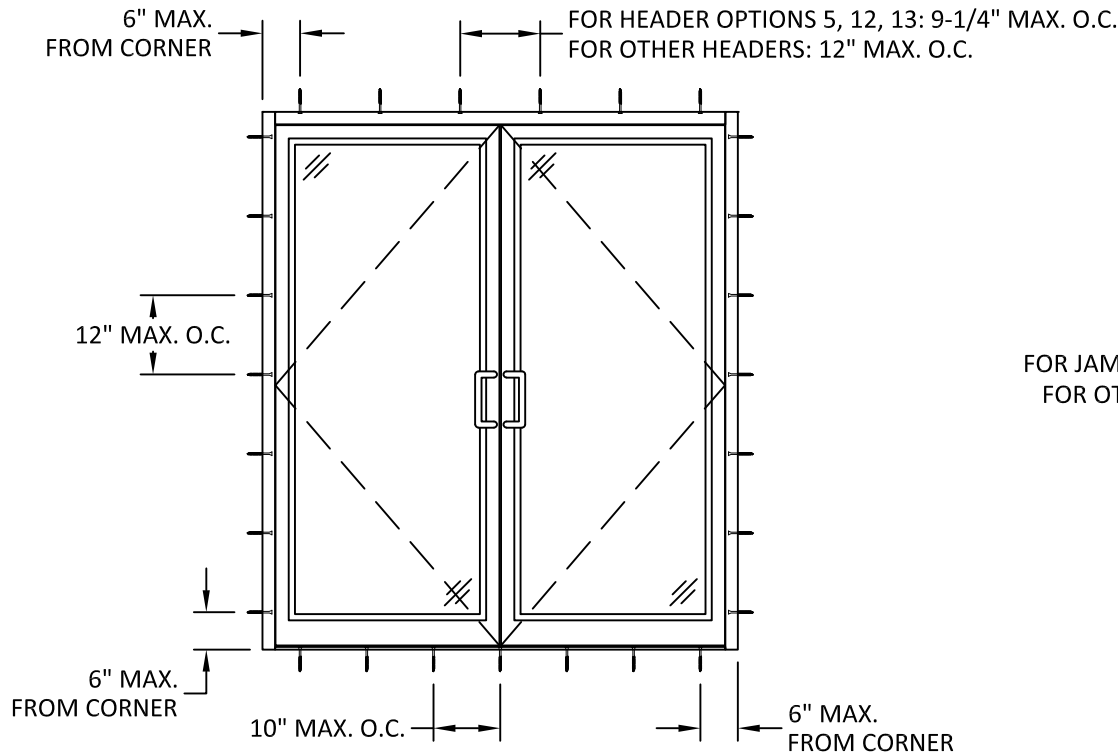
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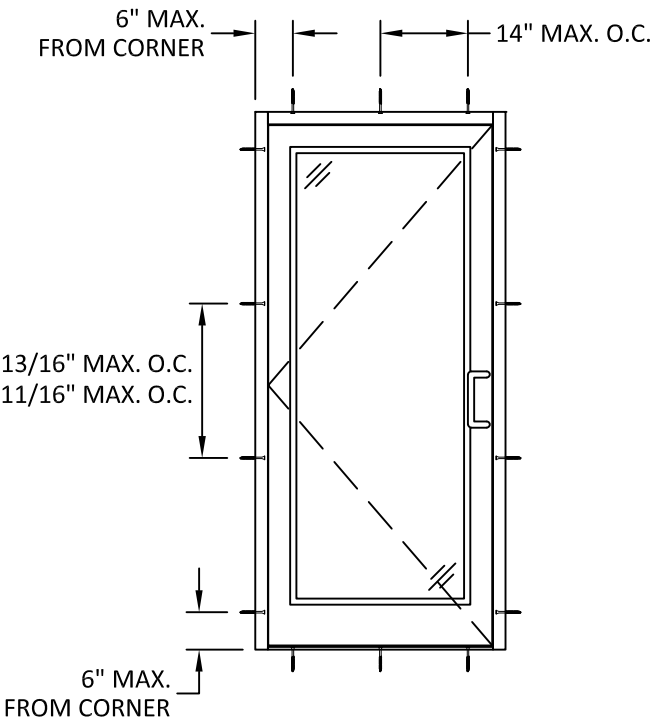
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ANCHOR LAYOUT
DOUBLE DOOR



ANCHOR LAYOUT
SINGLE DOOR

SEE SECTIONS 9 & 10 FOR HEADER AND JAMB OPTIONS.

FOR JAMB OPTION 9: 14-13/16" MAX. O.C.
FOR OTHER JAMBS: 24-11/16" MAX. O.C.

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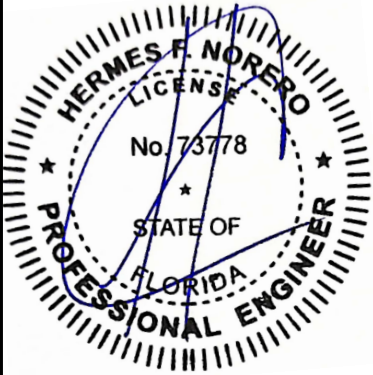
TITLE:
STANDARD/THERMAL/MONUMENTAL
ENTRANCE DOOR
(NON-HVHZ) (NON-IMPACT)
ANCHOR LAYOUTS

PREPARED BY:

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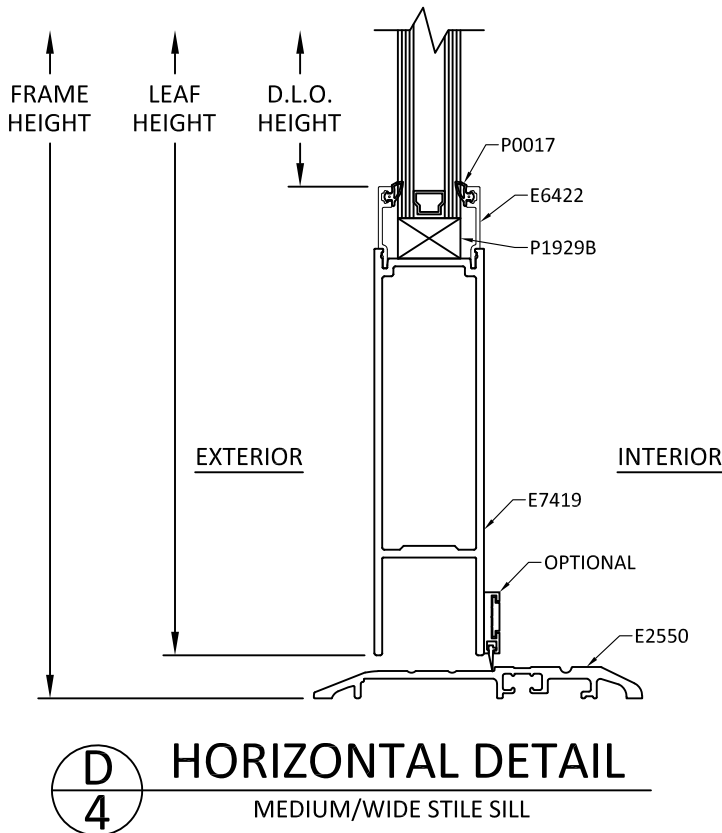
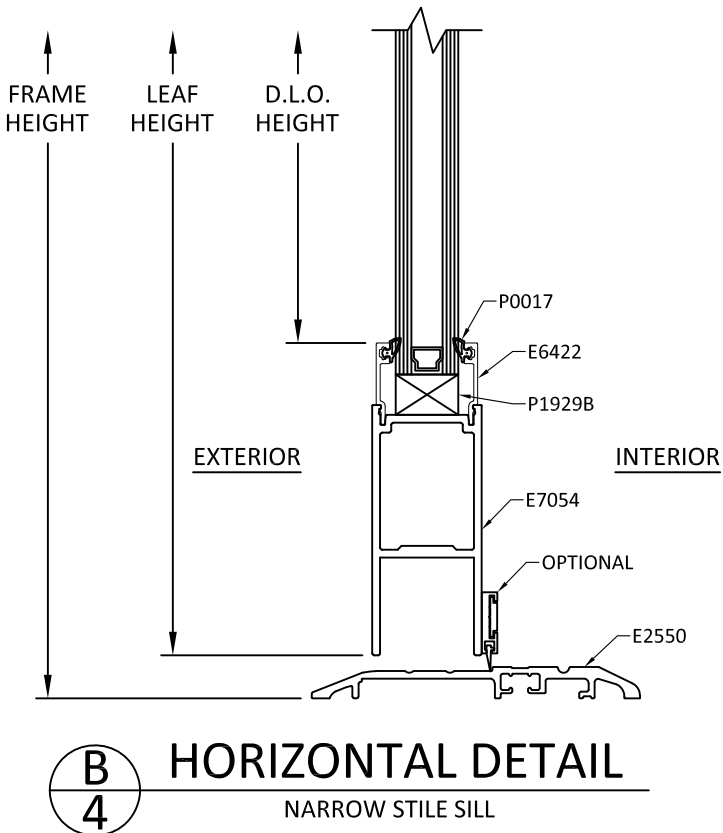
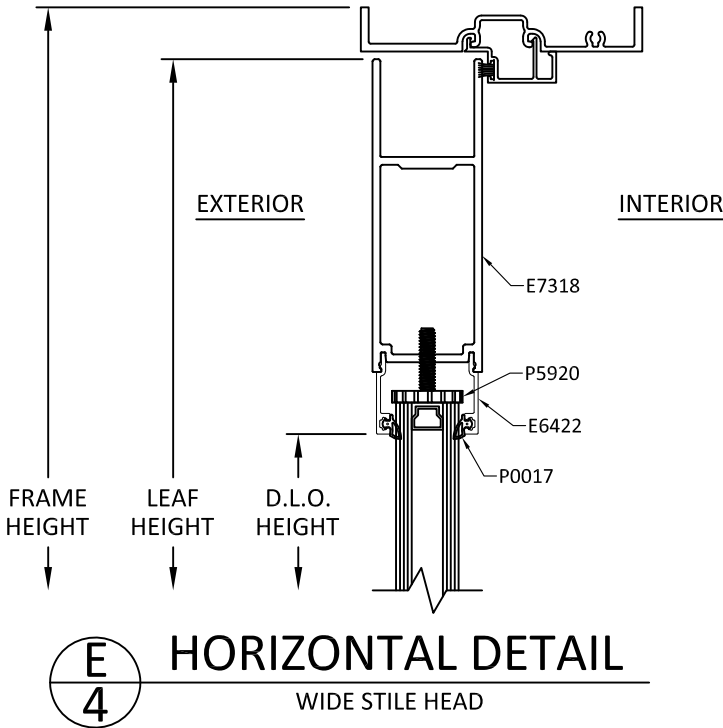
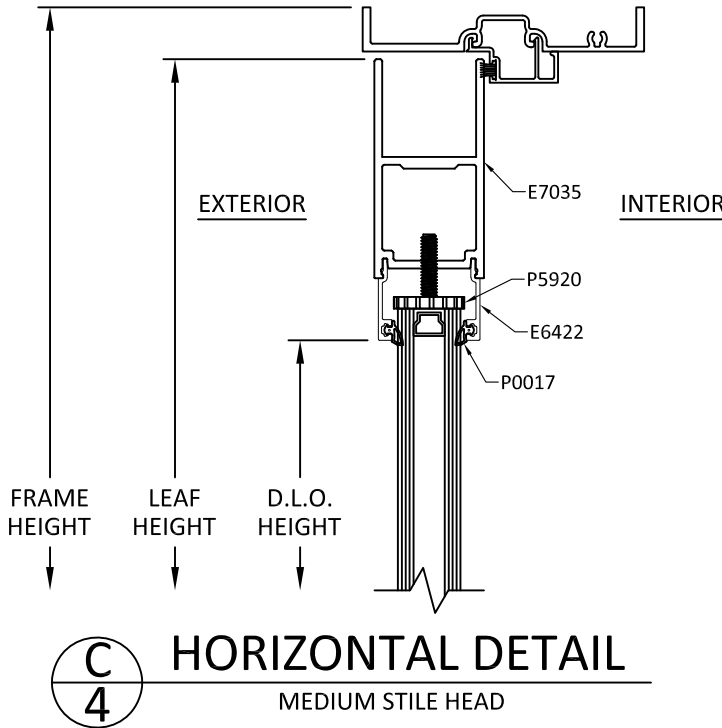
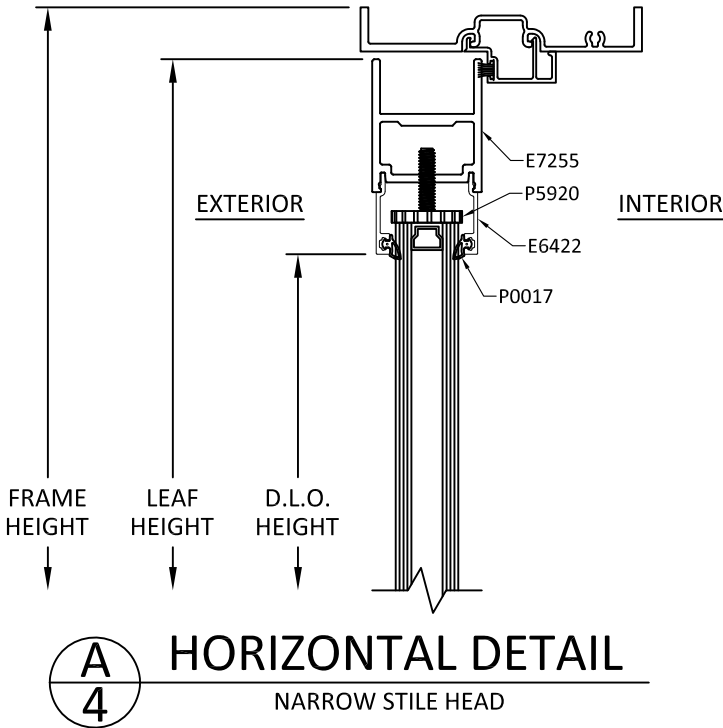
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FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
1900 NE MIAMI COURT, SUITE 2-15
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FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL28368
DATE:	10.08.2024
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MS	HFN
SCALE:	NTS
DWG. #:	TLI030
SECTION:	3
[PAGE 3 of 17]	

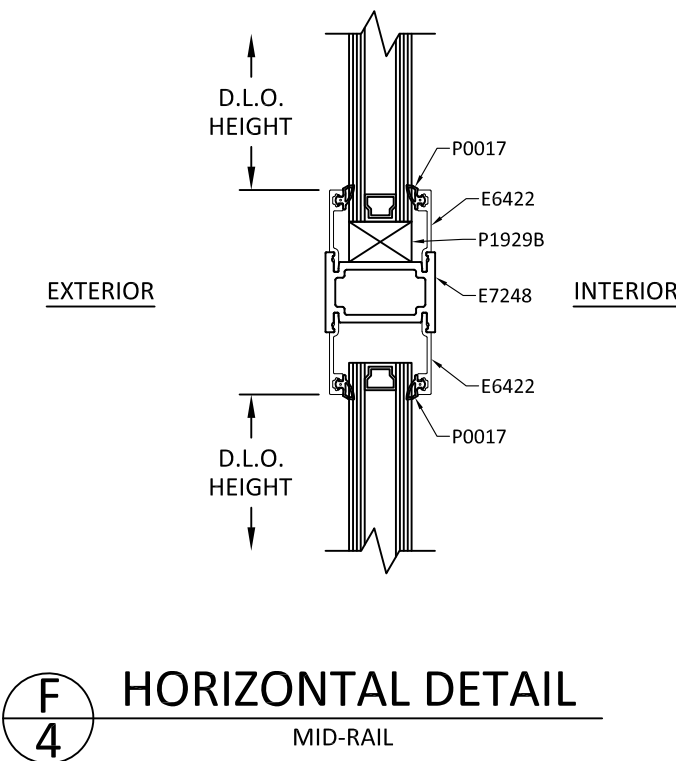
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STANDARD HORIZONTAL DETAILS



SEE SECTION 4.1 FOR RAIL OPTIONS.
SEE SECTIONS 10 & 11 FOR DOOR FRAME OPTIONS.



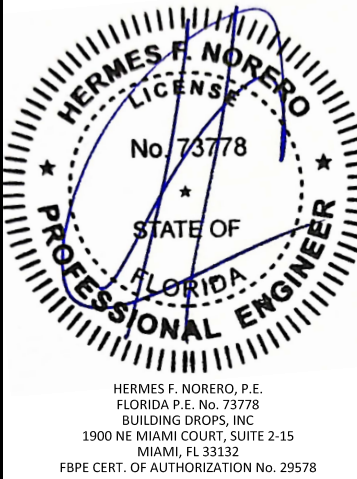
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WALKER, MICHIGAN 49544
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TITLE: STANDARD/THERMAL/MONUMENTAL
ENTRANCE DOOR
(NON-HVHZ) (NON-IMPACT)
STANDARD HORIZONTAL DETAILS
PREPARED BY: BUILDING DROPS, INC.
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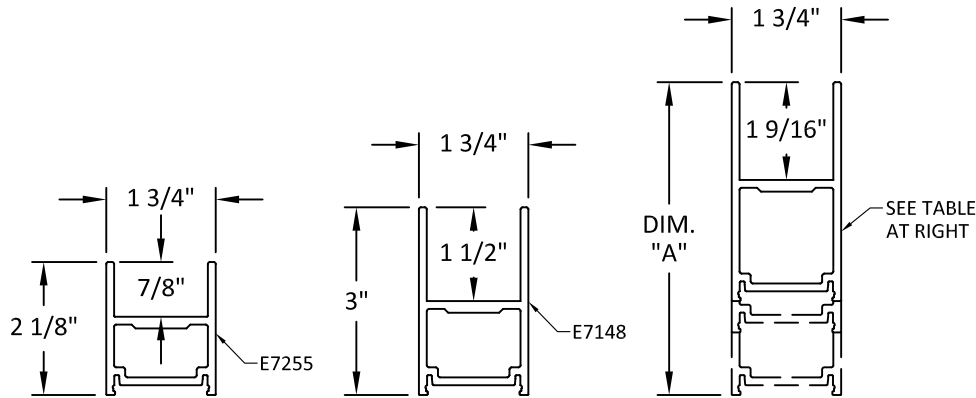


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DATE: **10.08.2024**
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DWG. #: **TLI030**
SECTION: **4**
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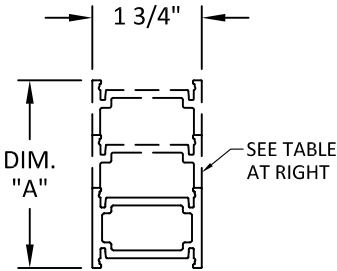
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STANDARD RAIL OPTIONS



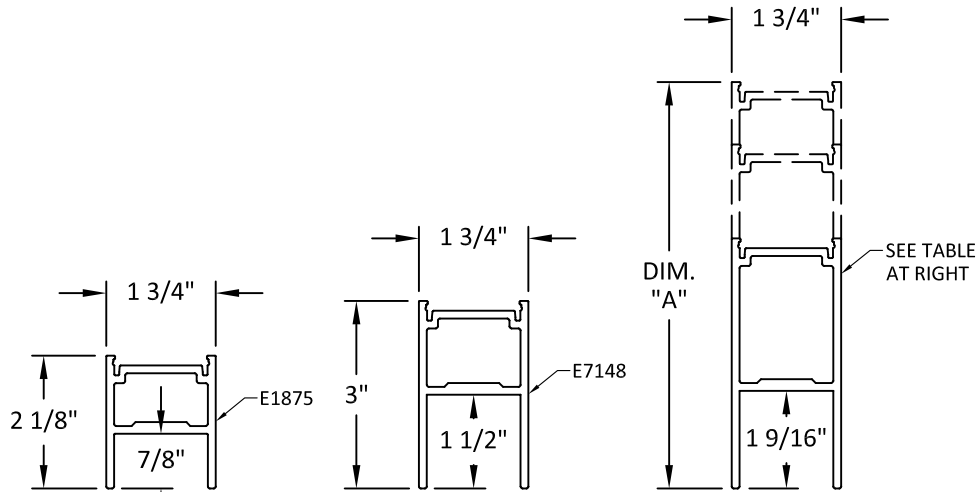
TOP RAILS

TOP RAIL OPTIONS	
PART #	DIMENSION "A"
E7035	3 1/2"
E7054	4"
E7140	4 1/2"
E7318	5"
E6616	6"
E7419	6 1/2"
E6182	7 1/2"
E6169	10"



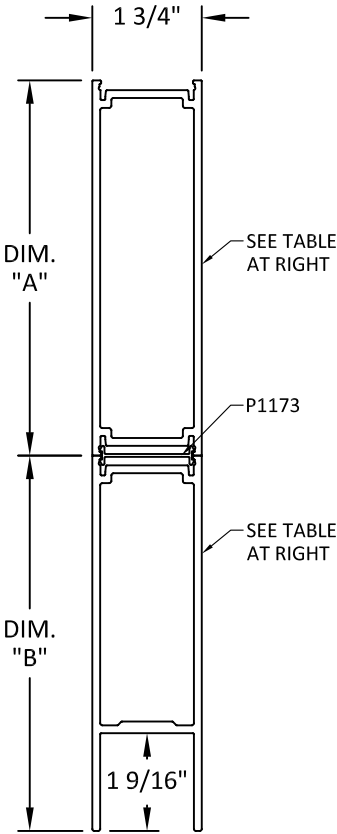
MID-RAILS

MIDDLE RAIL OPTIONS			
PART #	DIMENSION "A"	MAX. D.L.O. ABOVE MID-RAIL	
		WIDTH	HEIGHT
E7248	1 5/16"	35 3/4"	101 3/4"
E7234	1 3/4"	41 3/4"	101 3/4"
E6855	2 1/8"	41 3/4"	101 3/4"
E6859	3"	41 3/4"	101 3/4"
E6856	4"	41 3/4"	101 3/4"
E6861	4 1/2"	41 3/4"	101 3/4"
E6858	5"	41 3/4"	101 3/4"
E6862	6"	41 3/4"	101 3/4"
E6866	6 1/2"	41 3/4"	101 3/4"
E6863	7 1/2"	41 3/4"	101 3/4"
E6865	10"	41 3/4"	101 3/4"



BOTTOM RAILS

BTM. RAIL OPTIONS	
PART #	DIMENSION "A"
E7035	3 1/2"
E7054	4"
E7140	4 1/2"
E7318	5"
E6616	6"
E7419	6 1/2"
E6182	7 1/2"
E6169	10"



BOTTOM RAILS

BTM. RAIL OPTIONS			
TOP PART #	BOTTOM PART #	DIM. "A"	DIM. "B"
E6862	E6616	6"	6
E6862	E6169	6"	10"
E6865	E6169	10"	10"

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WALKER, MICHIGAN 49544
PH: (800) 866-2227 FX: (616) 301-0008

TITLE:
STANDARD/THERMAL/MONUMENTAL
ENTRANCE DOOR
(NON-HVHZ) (NON-IMPACT)
STANDARD RAIL OPTIONS

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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FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL28368**

DATE: **10.08.2024**

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SCALE: **NTS**

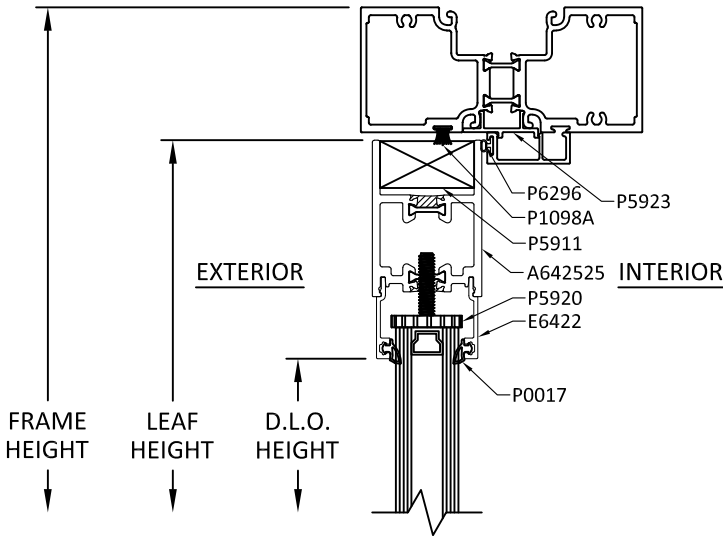
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SECTION: **4.1**
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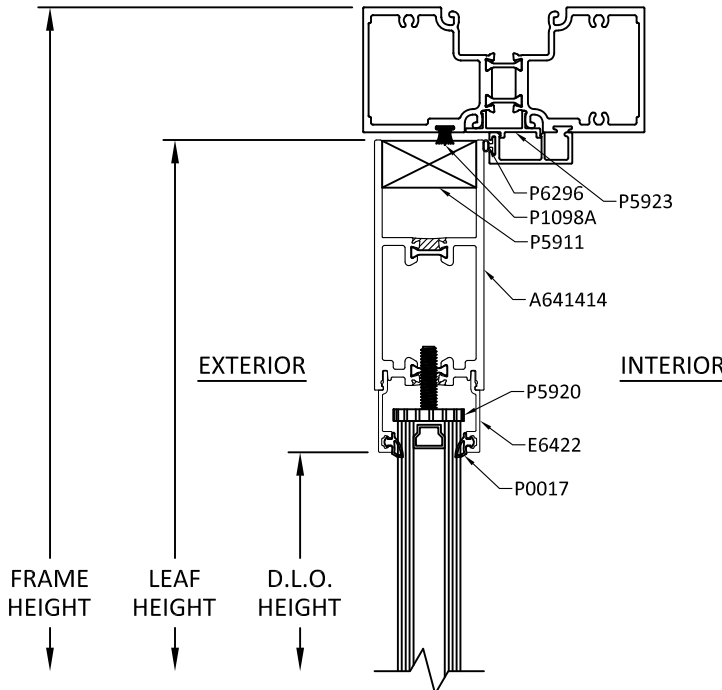
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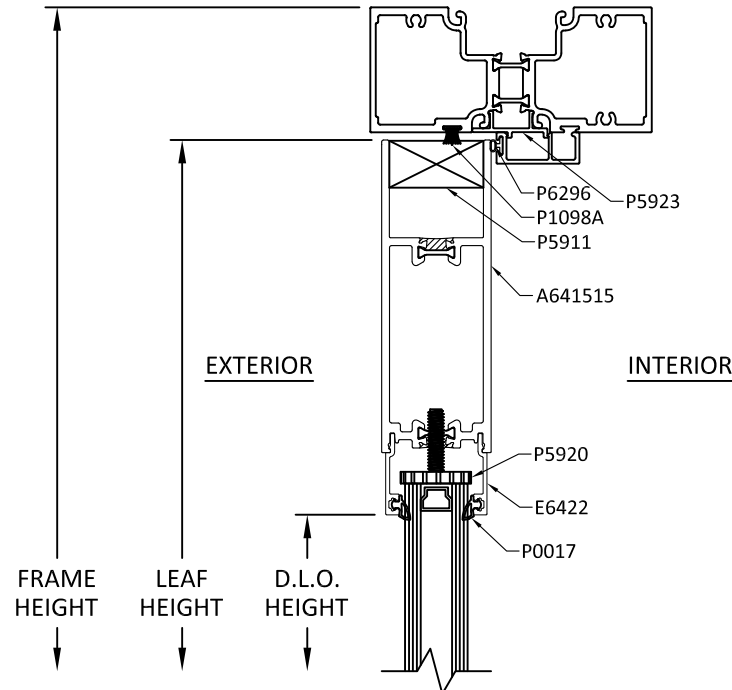
THERMAL HORIZONTAL DETAILS



A
5 HORIZONTAL DETAIL
NARROW STILE HEAD

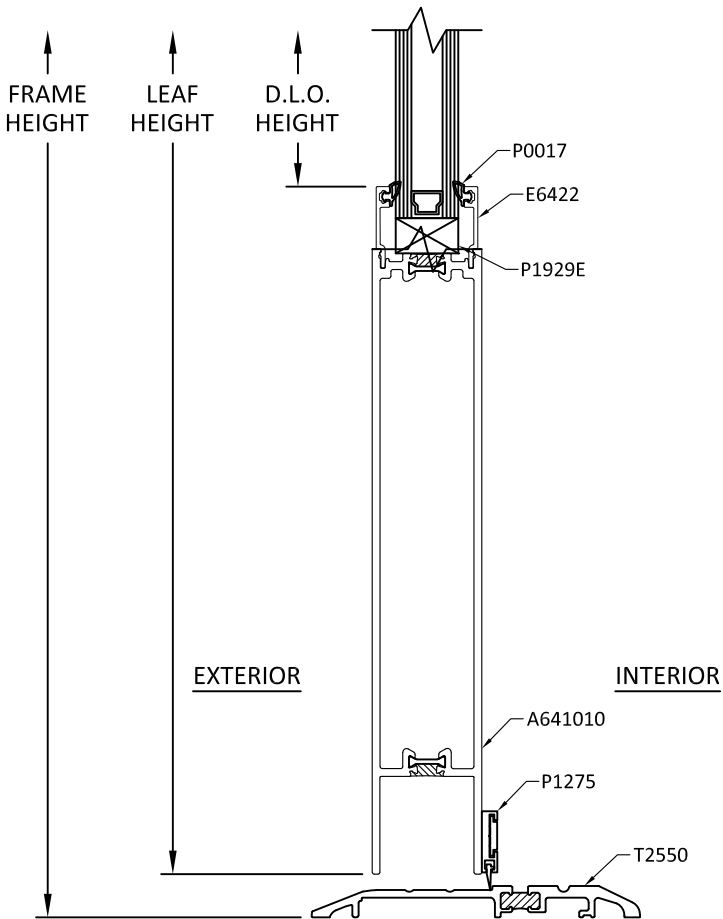


C
5 HORIZONTAL DETAIL
MEDIUM STILE HEAD

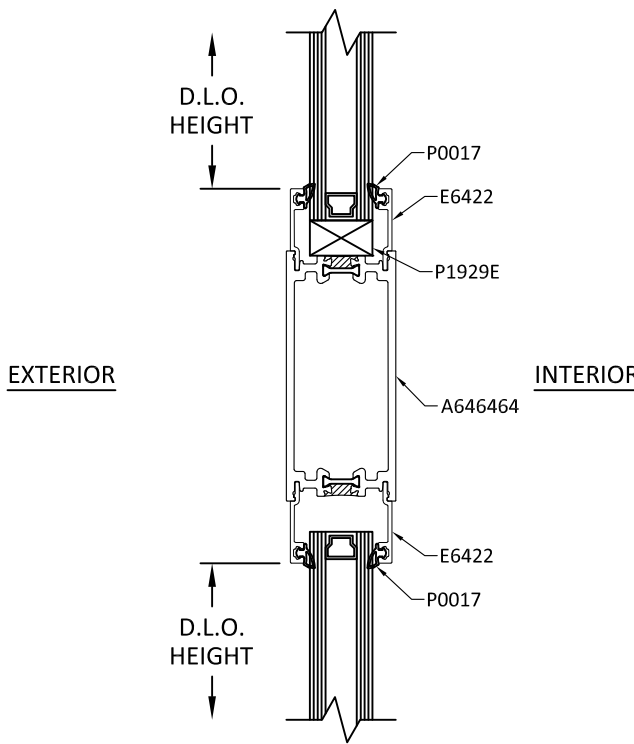


E
5 HORIZONTAL DETAIL
WIDE STILE HEAD

SEE SECTION 5.1 FOR RAIL OPTIONS.
SEE SECTIONS 10 & 11 FOR DOOR FRAME OPTIONS.



B
5 HORIZONTAL DETAIL
NARROW/MEDIUM/WIDE STILE SILL



D
5 HORIZONTAL DETAIL
MID-RAIL

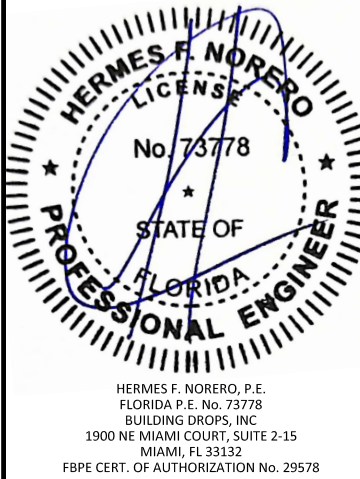
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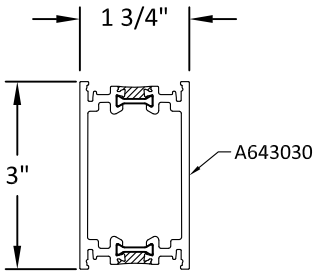
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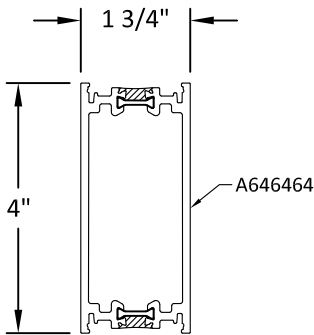
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THERMAL RAIL OPTIONS

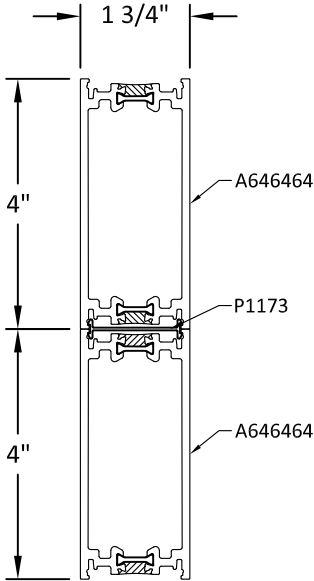
MIDDLE RAIL OPTIONS		
PART #	MAX. D.L.O. ABOVE MID-RAIL	
	WIDTH	HEIGHT
A643030	41 3/4"	101 3/4"
A646464	41 3/4"	101 3/4"



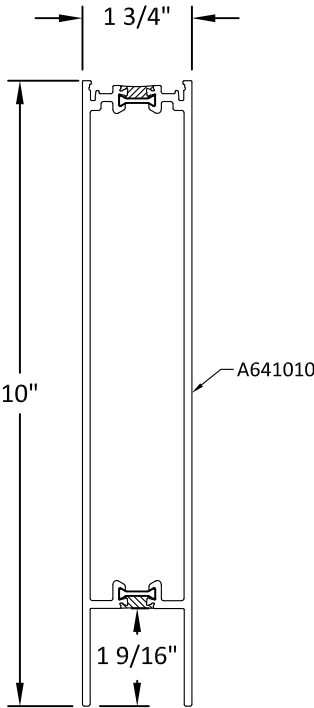
MID-RAIL



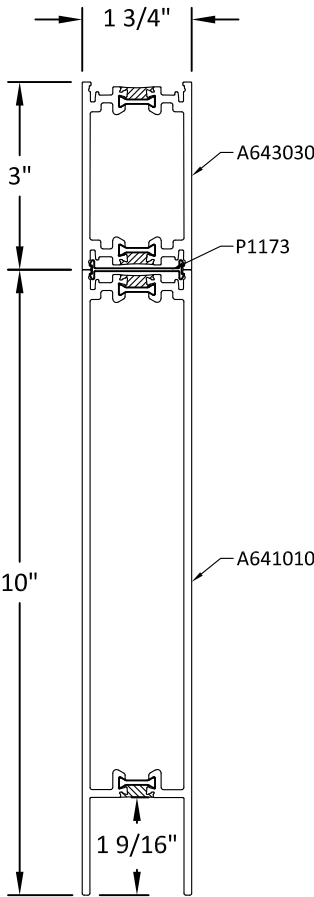
MID-RAIL



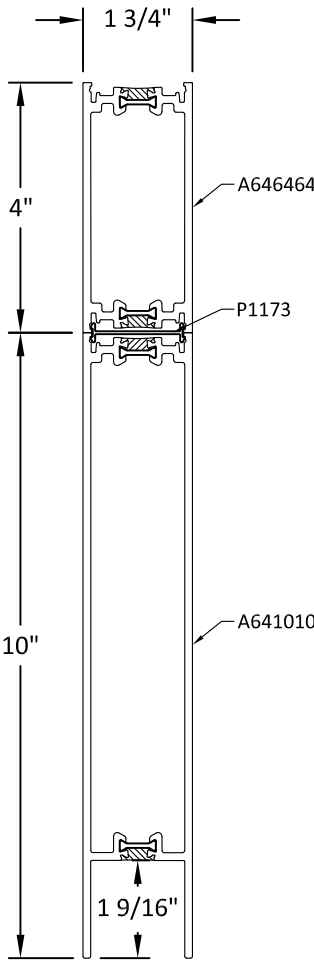
MID-RAIL



BOTTOM RAIL



BOTTOM RAIL



BOTTOM RAIL

TUBELITE

DEPENDABLE

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3056 WALKER RIDGE DRIVE NW
WALKER, MICHIGAN 49544
PH: (800) 866-2227 FX: (616) 301-0008

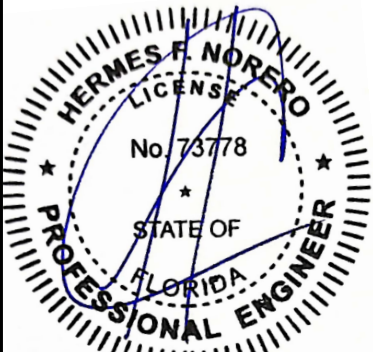
TITLE:
STANDARD/THERMAL/MONUMENTAL
ENTRANCE DOOR
(NON-HVHZ) (NON-IMPACT)
THERMAL RAIL OPTIONS

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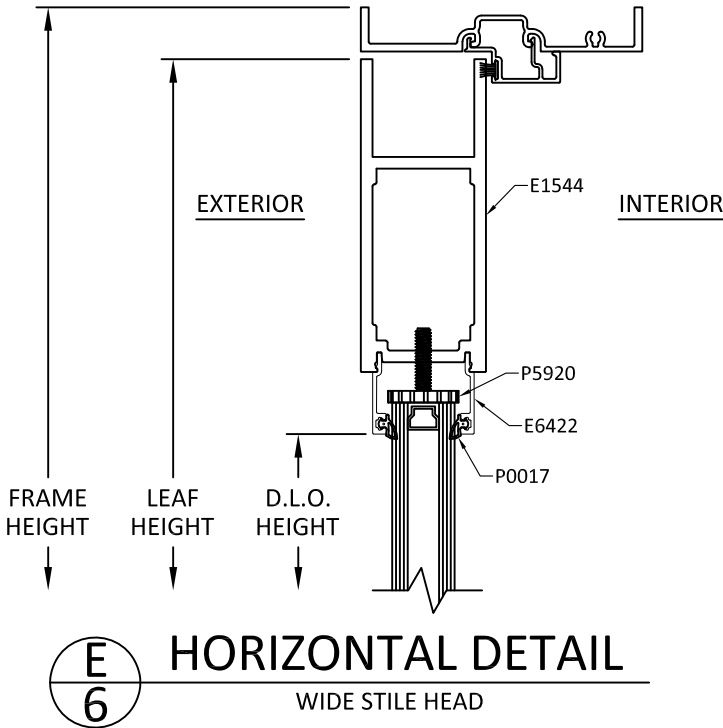
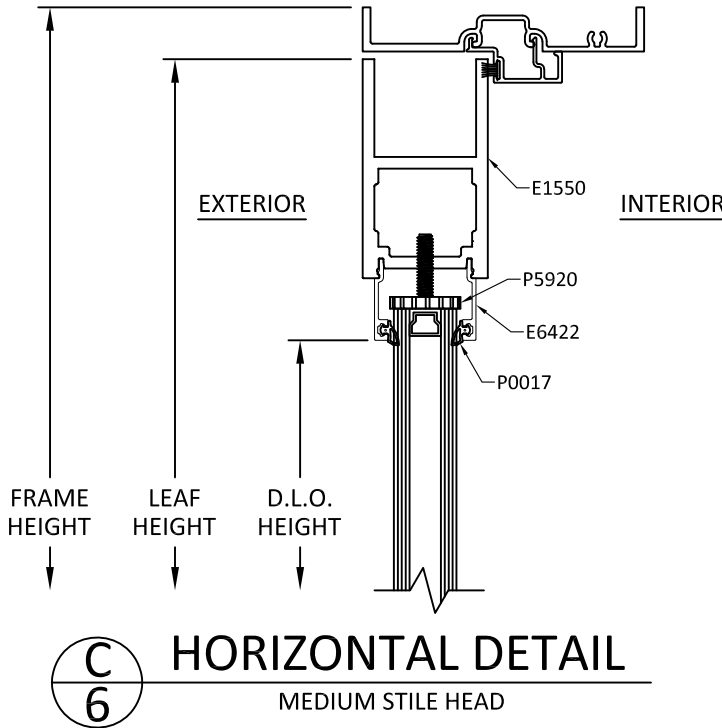
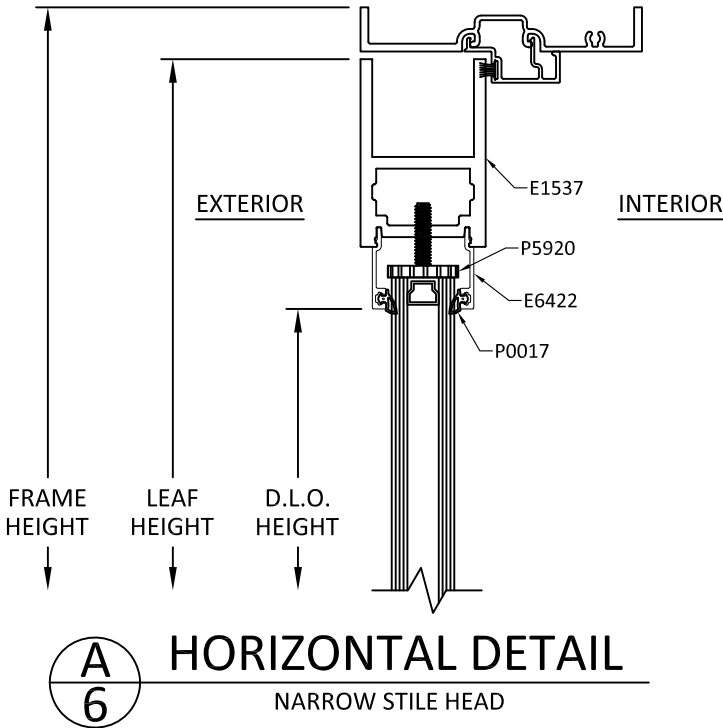
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FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
1900 NE MIAMI COURT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL28368
DATE:	10.08.2024
DWG. BY:	CHK. BY:
MS	HFN
SCALE:	NTS
DWG. #:	TLI030
SECTION:	5.1
[PAGE 7 of 17]	

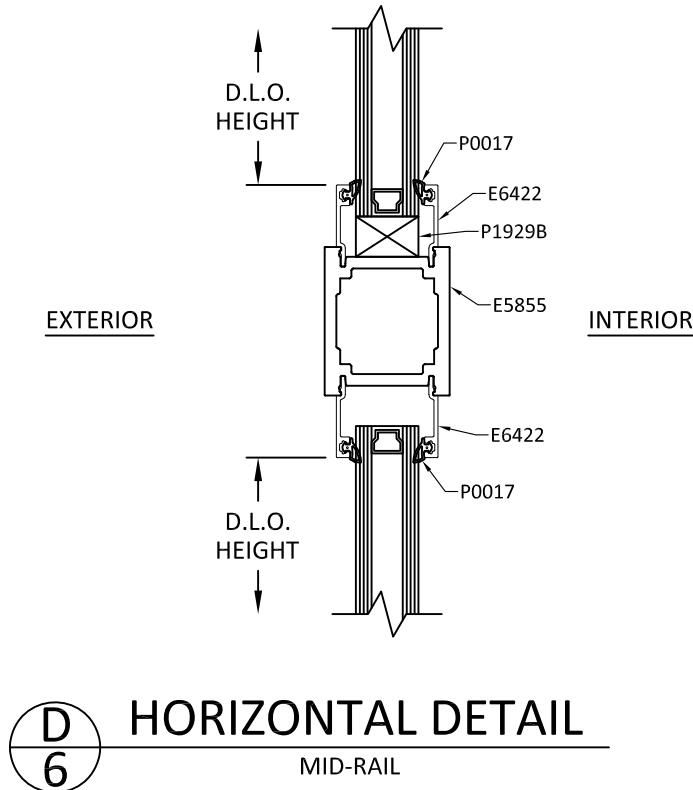
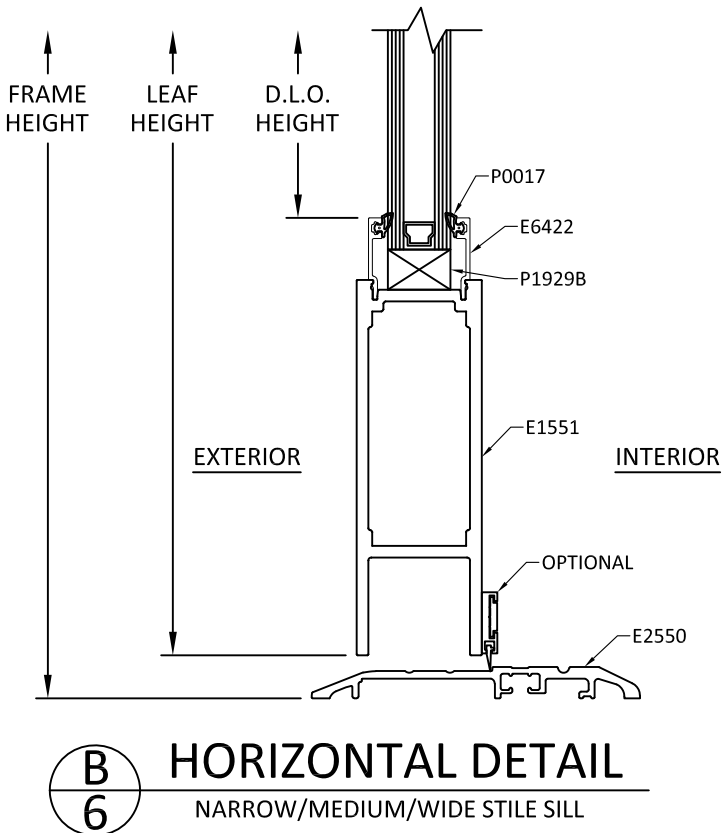
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MONUMENTAL HORIZONTAL DETAILS



SEE SECTION 6.1 FOR RAIL OPTIONS.
SEE SECTIONS 10 & 11 FOR DOOR FRAME OPTIONS.



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TITLE:
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ENTRANCE DOOR
(NON-HVHZ) (NON-IMPACT)
MONUMENTAL HORIZONTAL DETAILS

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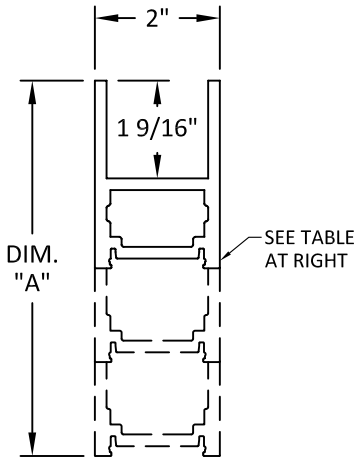
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BUILDING DROPS, INC.
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MIAMI, FL 33132
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DWG. #:		TLI030	
SECTION:			
6			
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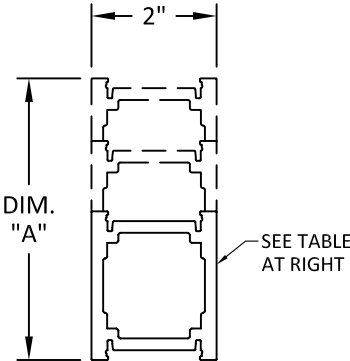
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MONUMENTAL RAIL OPTIONS



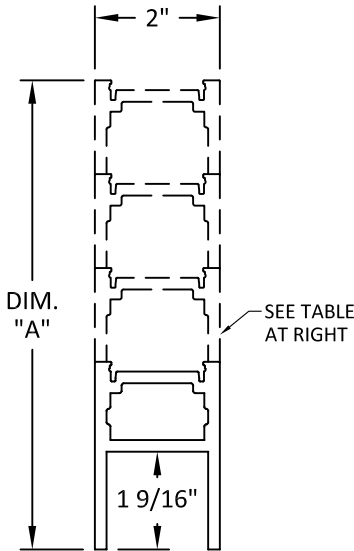
TOP RAILS

TOP RAIL OPTIONS	
PART #	DIMENSION "A"
E1537	2 3/8"
E1550	3 1/2"
E6629	4 1/2"
E1544	5"
E1551	6"
E6189	7 1/2"
E6454	10"



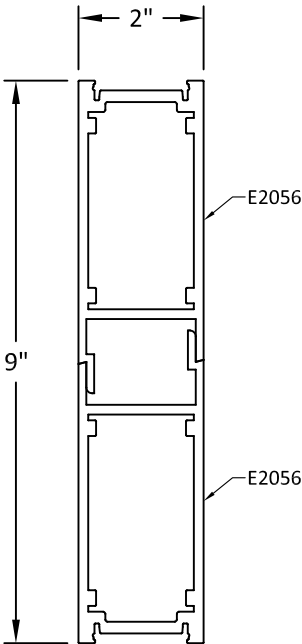
MID-RAILS

MIDDLE RAIL OPTIONS			
PART #	DIMENSION "A"	MAX. D.L.O. ABOVE MID-RAIL	
		WIDTH	HEIGHT
E5855	2 3/8"	41 3/4"	101 3/4"
E6643	3 1/2"	41 3/4"	101 3/4"
E6644	4 1/2"	41 3/4"	101 3/4"
E6445	6"	41 3/4"	101 3/4"
E6446	10"	41 3/4"	101 3/4"



BOTTOM RAILS

BTM. RAIL OPTIONS	
PART #	DIMENSION "A"
E1537	3"
E1550	3 1/2"
E6629	4 1/2"
E1544	5"
E1551	6"
E6189	7 1/2"
E6454	10"



MID-RAILS

MIDDLE RAIL OPTIONS		
PART #	MAX. D.L.O. ABOVE MID-RAIL	
	WIDTH	HEIGHT
E2056	41 3/4"	101 3/4"

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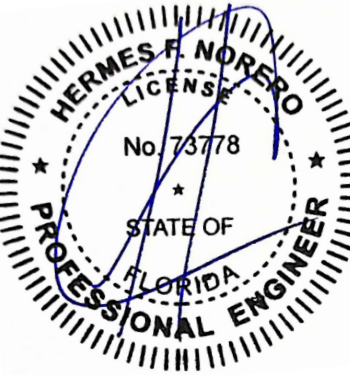
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MONUMENTAL RAIL OPTIONS

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**BUILDING DROPS**

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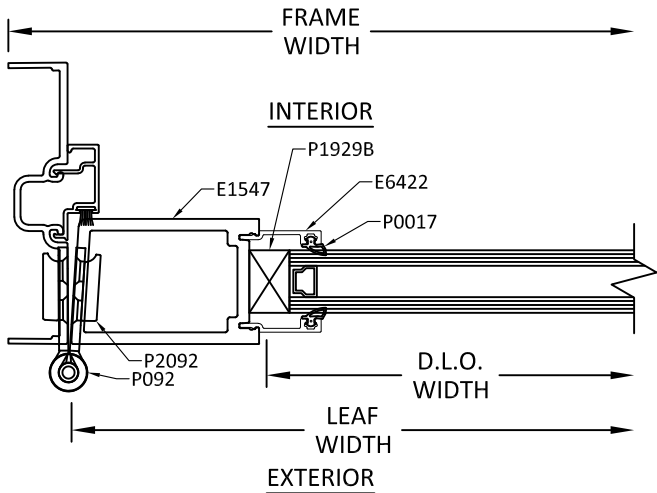
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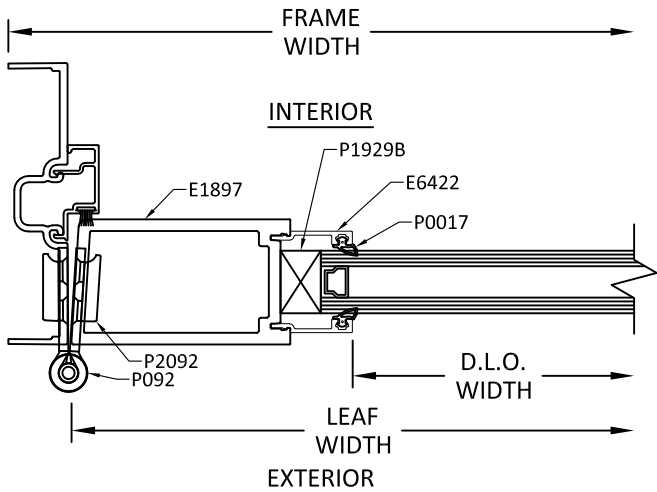
SECTION:
6.1
[PAGE 9 of 17]

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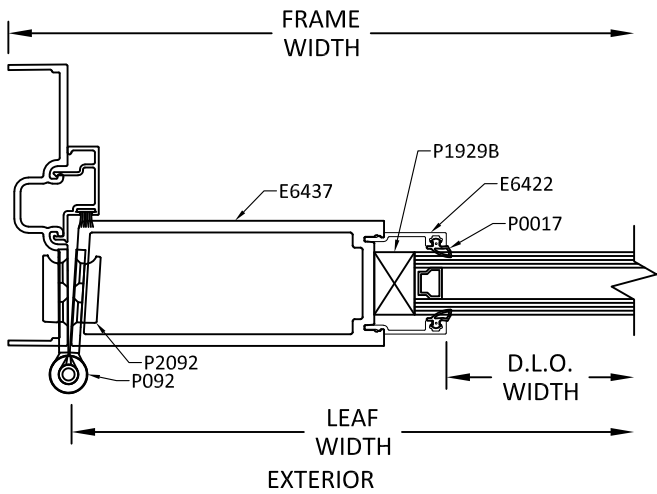
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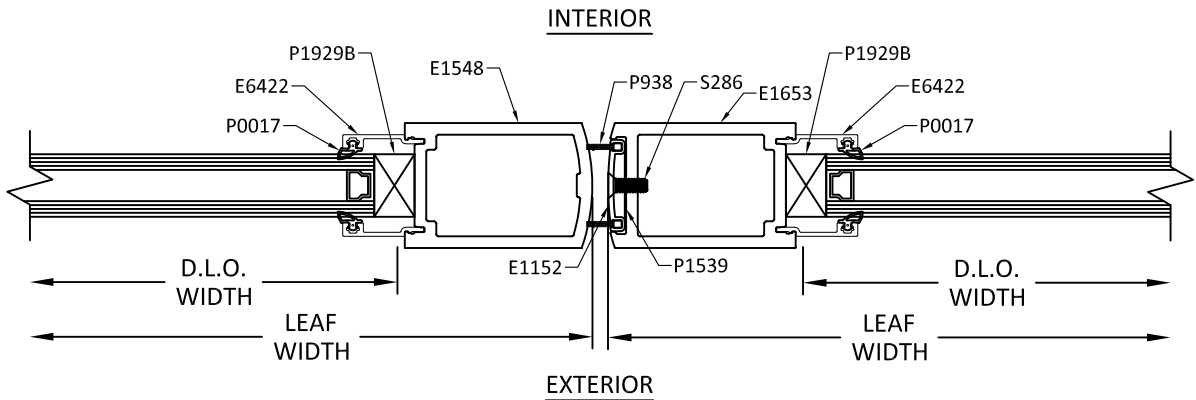
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NARROW STILE HINGE JAMB



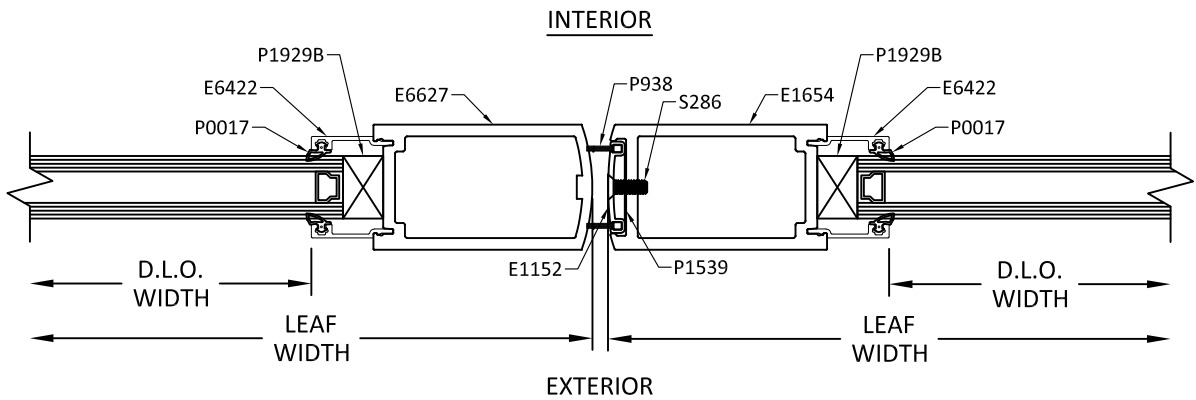
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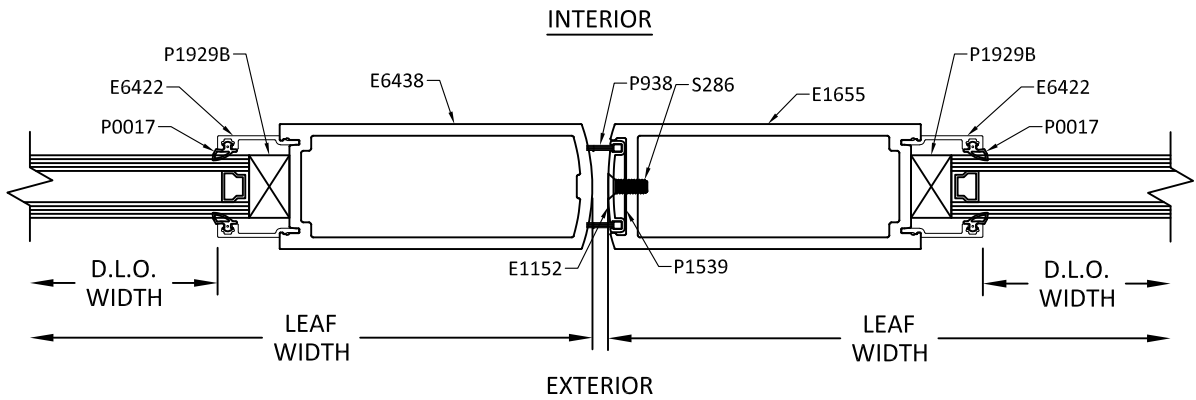
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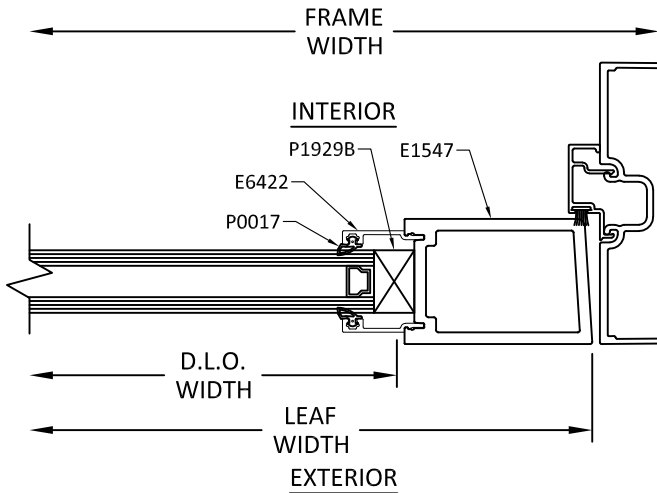
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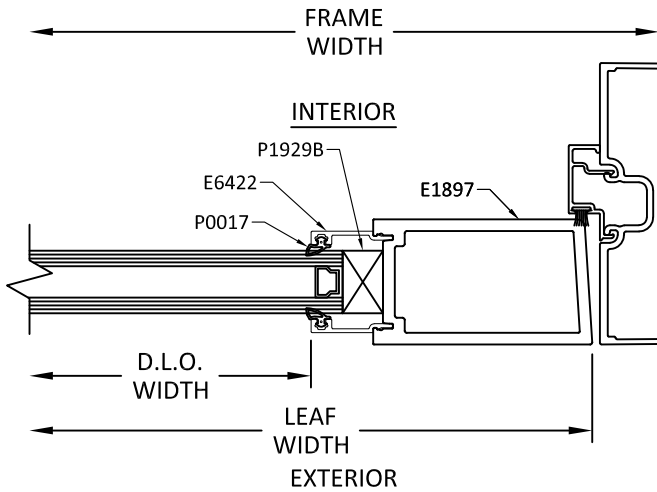
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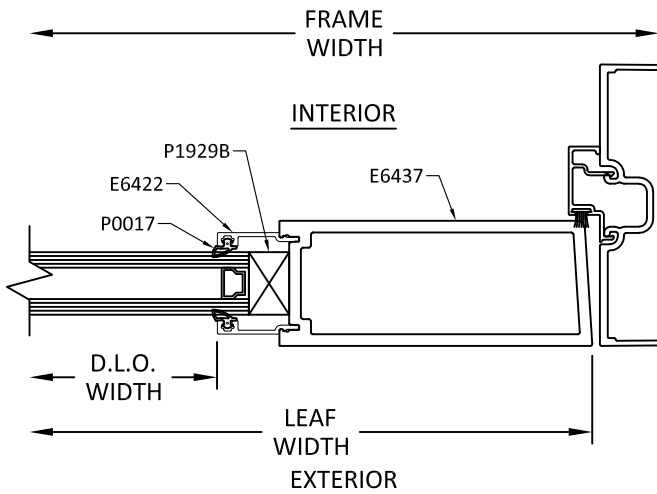
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9 VERTICAL DETAILS
WIDE STILE ASTRAGAL



C
9 VERTICAL DETAILS
NARROW STILE LOCK JAMB



F
9 VERTICAL DETAILS
MEDIUM STILE LOCK JAMB



I
9 VERTICAL DETAILS
WIDE STILE LOCK JAMB

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TITLE:
STANDARD/THERMAL/MONUMENTAL
ENTRANCE DOOR
(NON-HVHZ) (NON-IMPACT)

MONUMENTAL VERTICAL DETAILS

PREPARED BY:

BUILDING DROPS, INC.

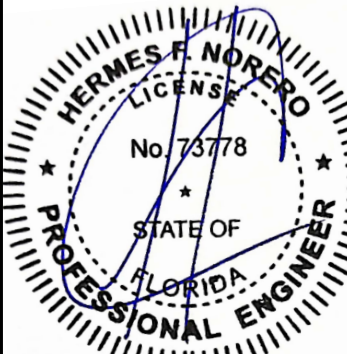
1900 NE MIAMI COURT, SUITE 2-15
MIAMI, FL 33132

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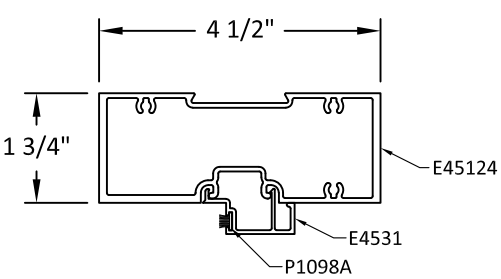


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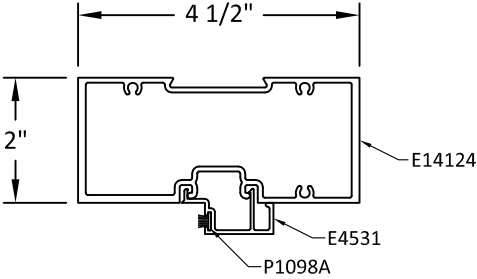
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DATE:	10.08.2024
DWG. BY:	MS
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SCALE:	NTS
DWG. #:	TLI030
SECTION:	9
[PAGE 12 of 17]	

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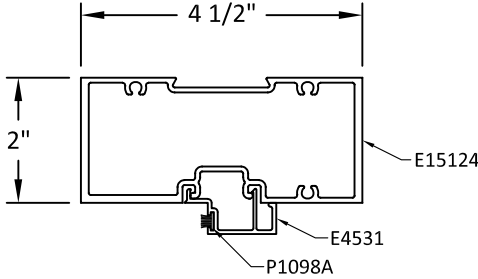
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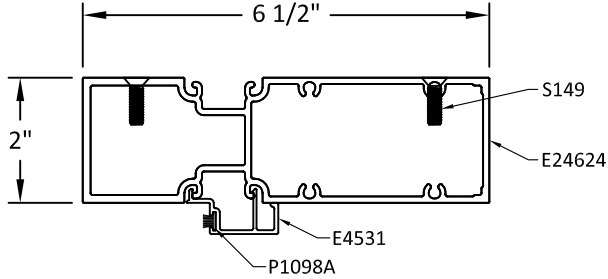
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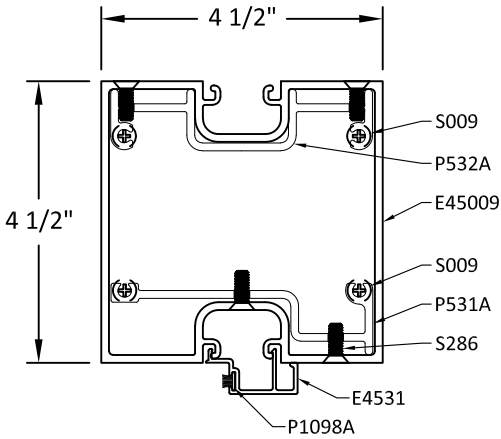
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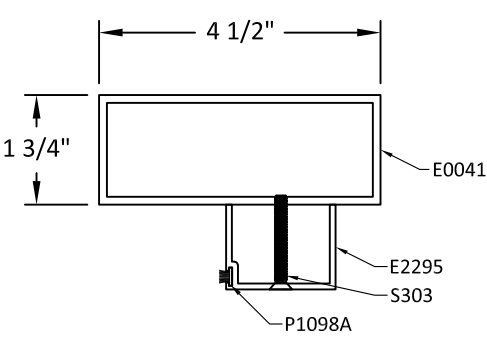
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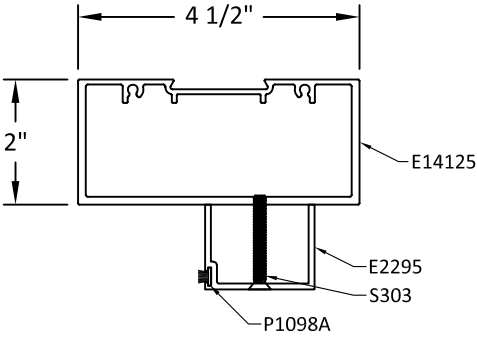
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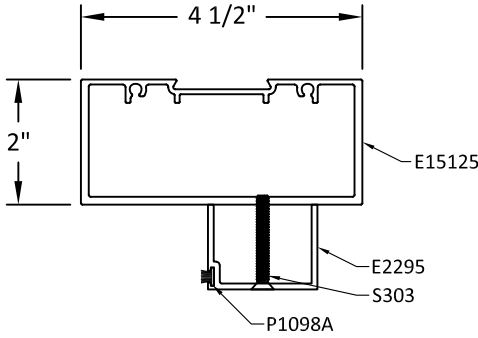
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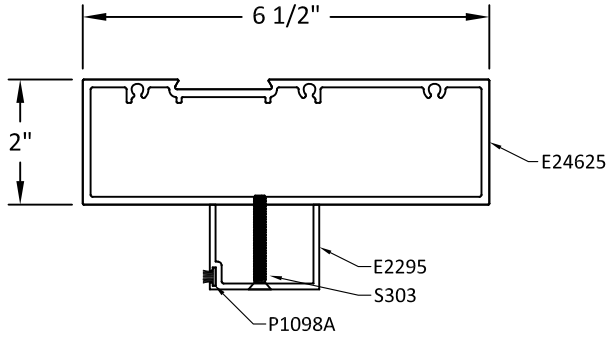
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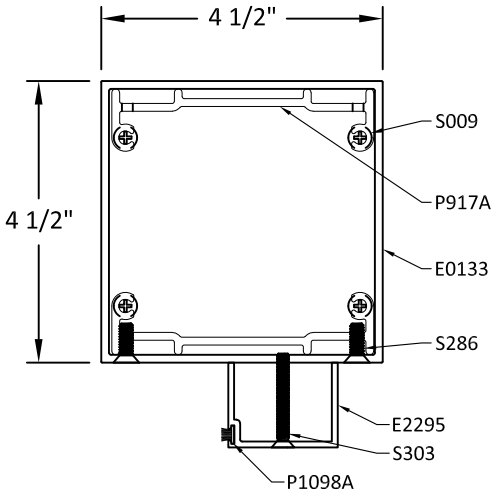
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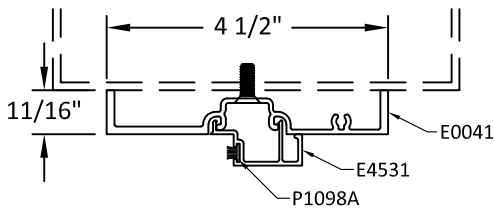
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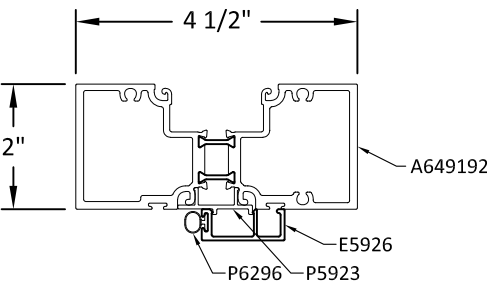
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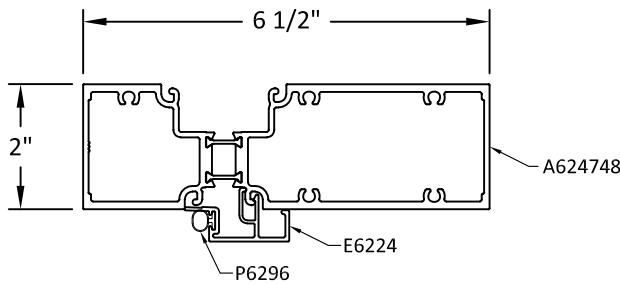
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HEADER OPTION 11
SUBFRAME



HEADER OPTION 12
THERMAL DOOR



HEADER OPTION 13
THERMAL DOOR

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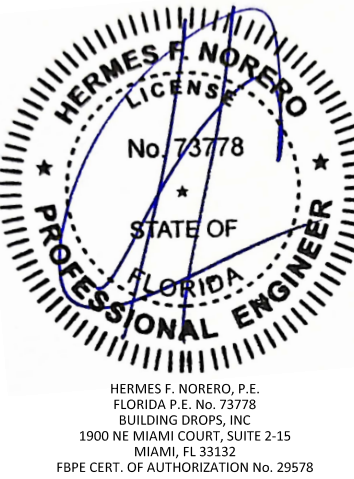
3056 WALKER RIDGE DRIVE NW
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TITLE: STANDARD/THERMAL/MONUMENTAL
ENTRANCE DOOR
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DOOR HEADER OPTIONS

PREPARED BY: BUILDING DROPS, INC.
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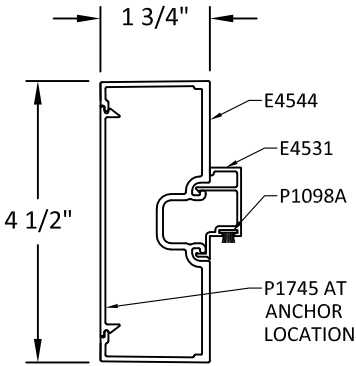
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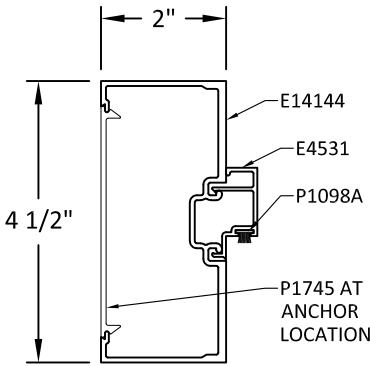
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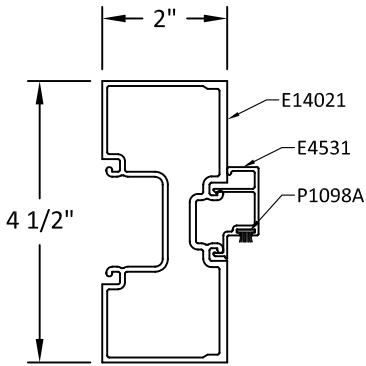
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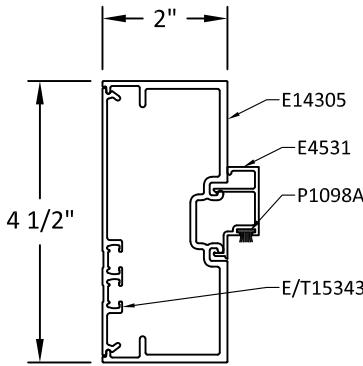
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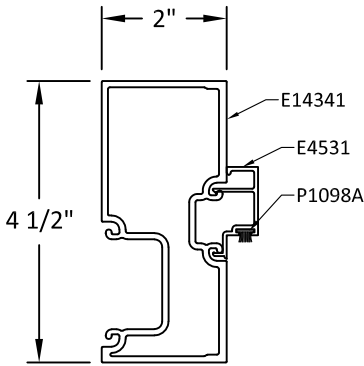
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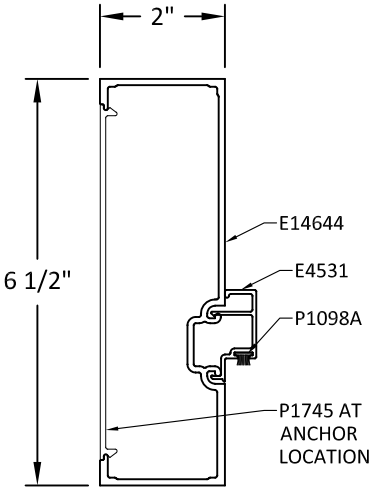
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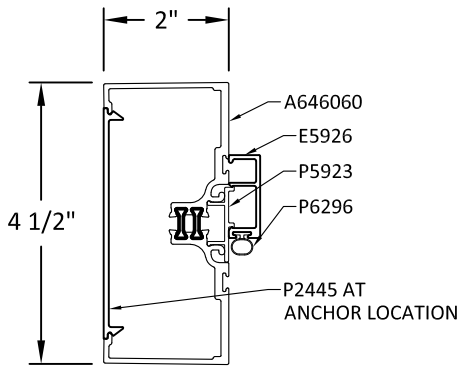
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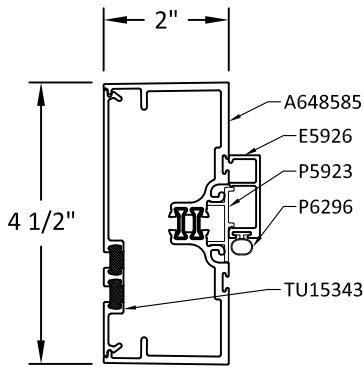
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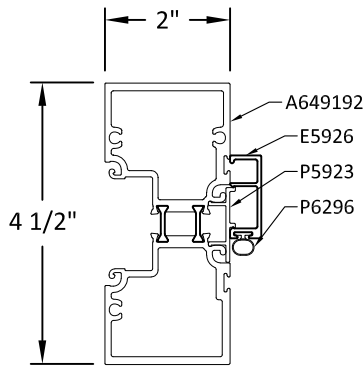
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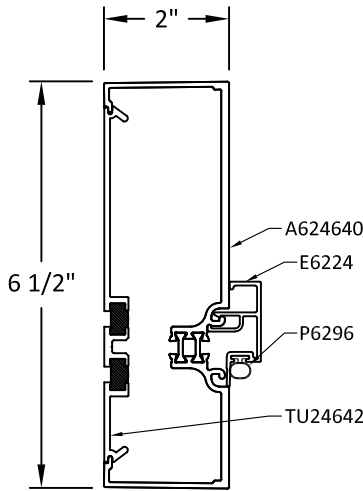
JAMB OPTION 7
THERMAL



JAMB OPTION 8
THERMAL



JAMB OPTION 9
THERMAL



JAMB OPTION 10
THERMAL

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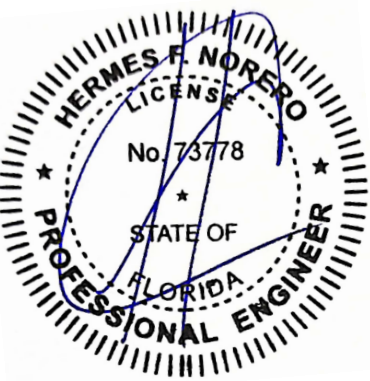
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TLI030

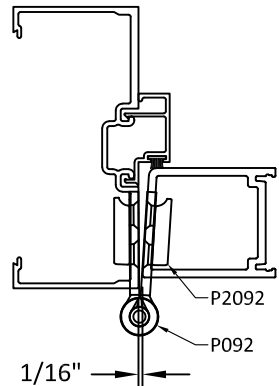
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11

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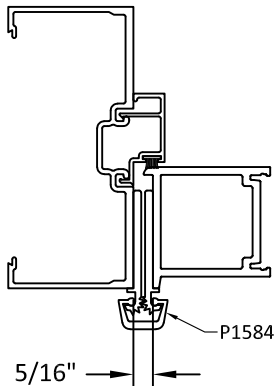
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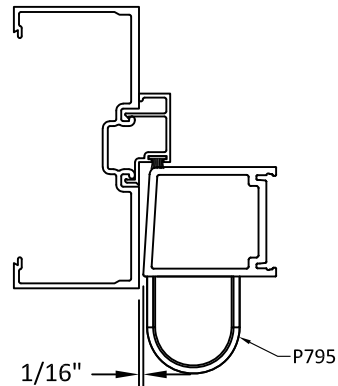
NARROW STILE STANDARD DOOR SHOWN,
MEDIUM/WIDE STILE AND THERMAL/
MONUMENTAL DOORS ARE SIMILAR.



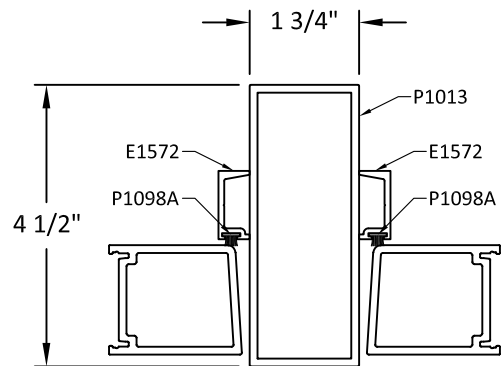
HINGE OPTION 1
BUTT HINGE



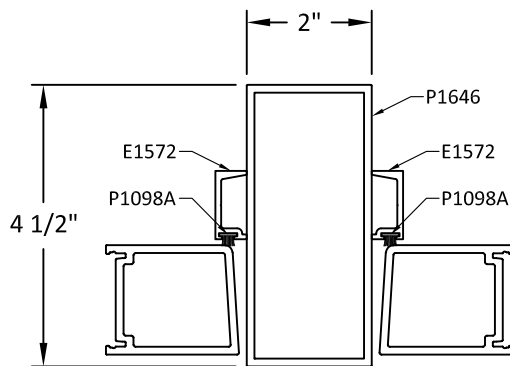
HINGE OPTION 2
CONTINUOUS HINGE



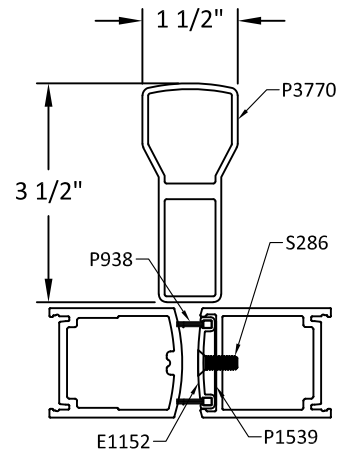
HINGE OPTION 3
PIVOT HINGE



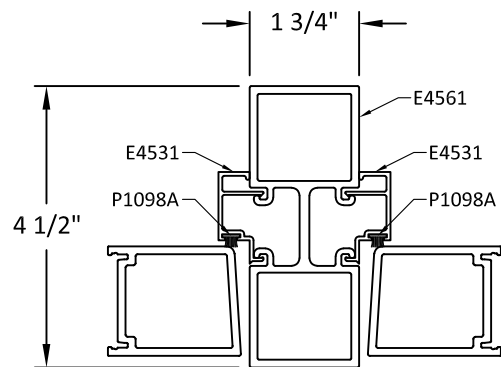
1 3/4" REMOVABLE MULLION



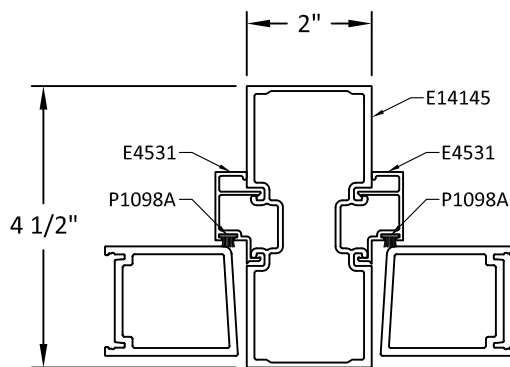
2" REMOVABLE MULLION



REMOVABLE RIM PANIC MULLION



1 3/4" FIXED MULLION



2" FIXED MULLION

QUALIFIED HARDWARE OPTIONS

PRODUCT NAME	PRODUCT TYPE	MAX. DESIGN PRESSURE (PSF)
SARGENT AD/MD8400	CONCEALED VERTICAL ROD	+/- 45
VON DUPRIN 98/9947	CONCEALED VERTICAL ROD	+/- 45
VON DUPRIN 98/9949	CABLE EXIT DEVICE	+/- 45
SARGENT MD8600	CONCEALED VERTICAL ROD	+/- 45
FALCON 1690	CONCEALED VERTICAL ROD	+/- 45
JACKSON 2086	CONCEALED VERTICAL ROD	+/- 45
ADAMS RITE G86	CONCEALED VERTICAL ROD	+/- 45
FALCON HSEC 1690	CONCEALED VERTICAL ROD	+/- 45
FIRST CHOICE 3600	CONCEALED VERTICAL ROD	+/- 45
HAGER BB-1199	BUTT HINGE	+/- 45
RIXON 180	OFFSET PIVOT HINGE	+/- 45
RIXON 147	OFFSET PIVOT HINGE	+/- 45
RIXON M19L	OFFSET PIVOT HINGE	+/- 45
27 HD	CONTINUOUS HINGE	+/- 45

TUBELITE

DEPENDABLE

LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS

3056 WALKER RIDGE DRIVE NW
WALKER, MICHIGAN 49544
PH: (800) 866-2227 FX: (616) 301-0008

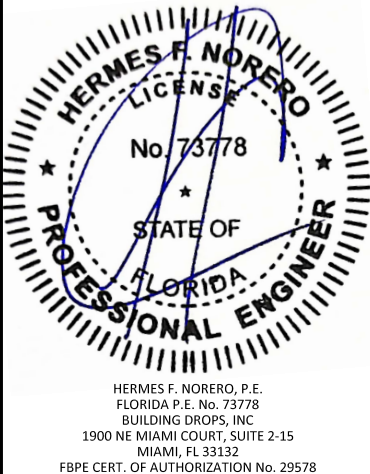
TITLE:
STANDARD/THERMAL/MONUMENTAL
ENTRANCE DOOR
(NON-HVHZ) (NON-IMPACT)
HARDWARE OPTIONS

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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SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE
FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED
ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC
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FL #:
FL28368

DATE: **10.08.2024**

DWG. BY: **MS** CHK. BY: **HFN**

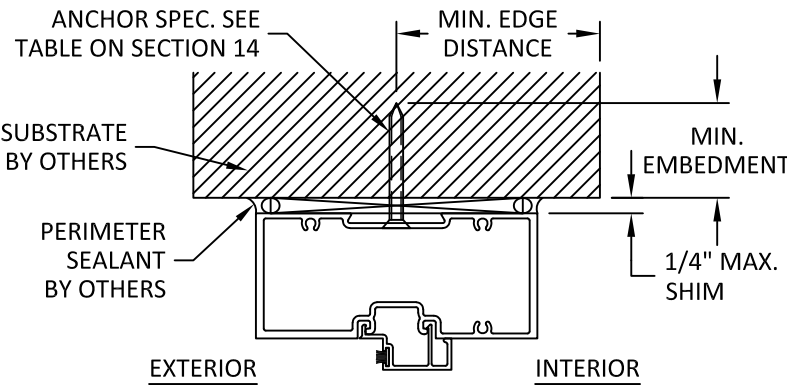
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DWG. #: **TLI030**

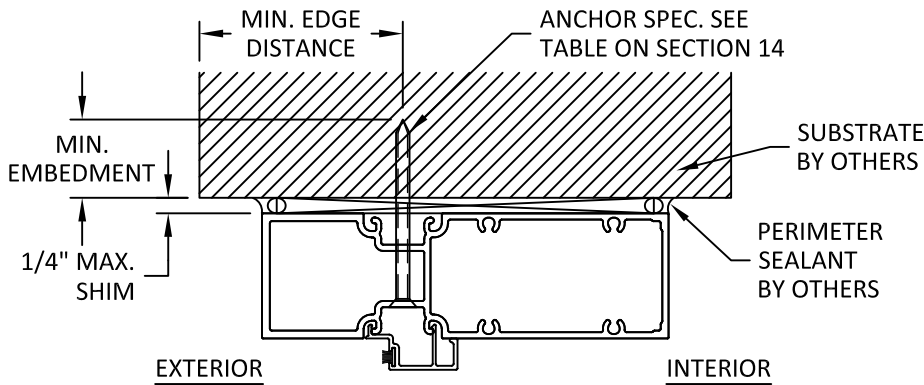
SECTION:
12
[PAGE 15 of 17]

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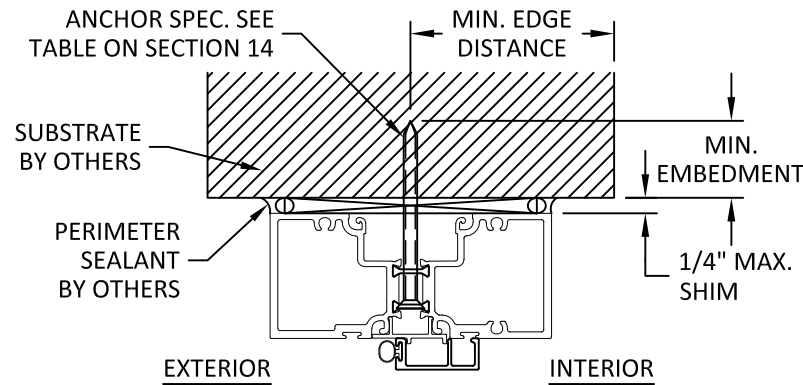
INSTALLATION DETAILS



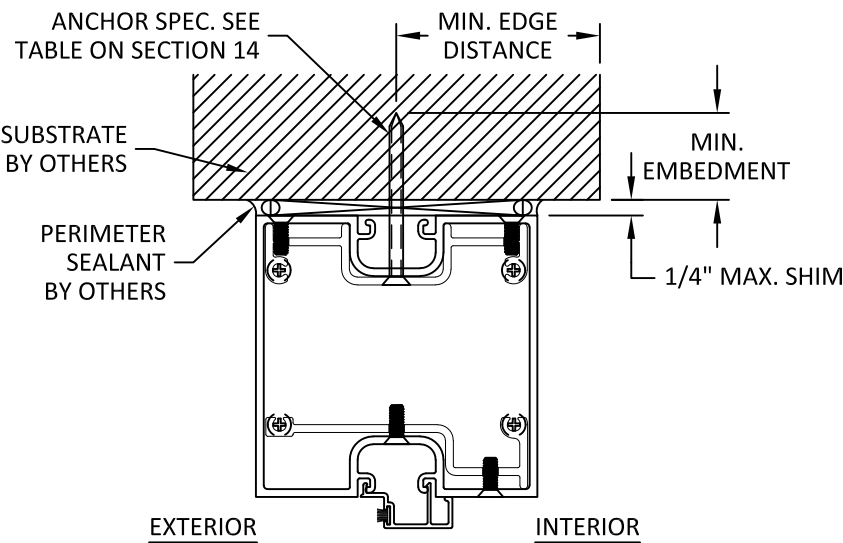
A INSTALLATION DETAIL
13 HEAD OPTIONS 1, 2, 3, 7, 8, 9



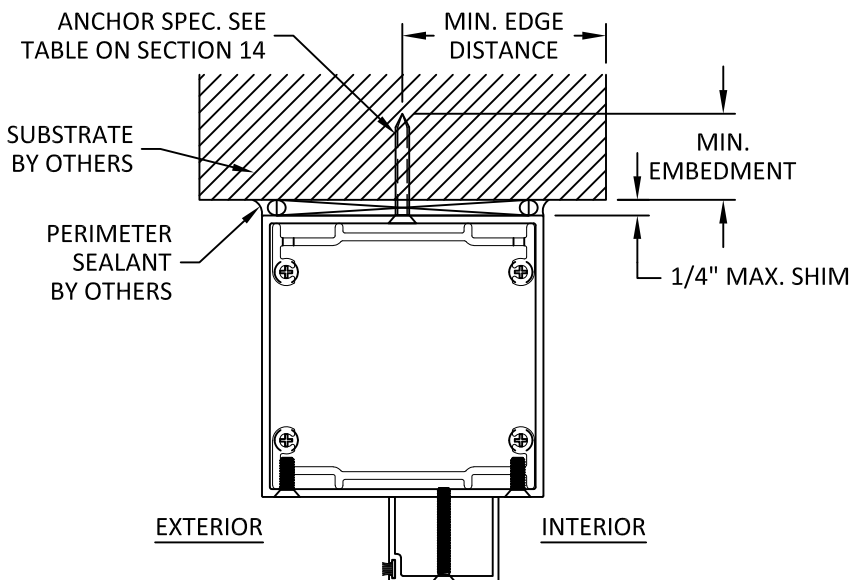
B INSTALLATION DETAIL
13 HEAD OPTION 4



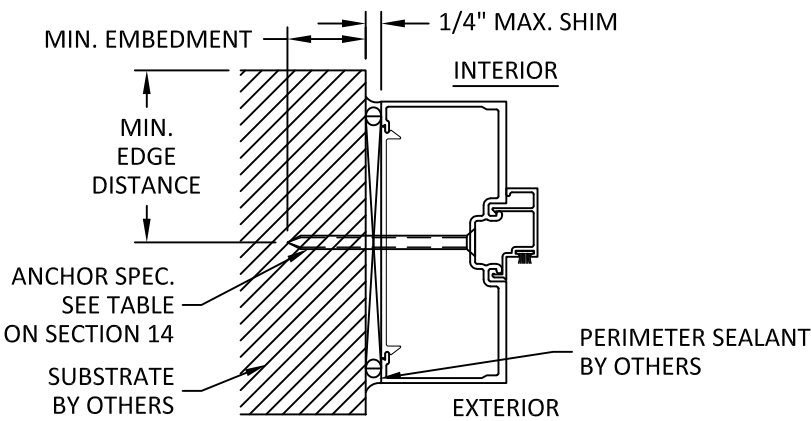
C INSTALLATION DETAIL
13 HEAD OPTIONS 12, 13



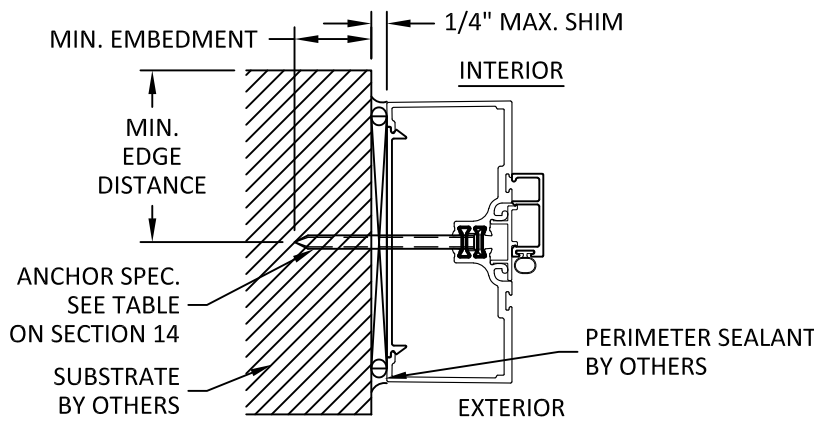
D INSTALLATION DETAIL
13 HEAD OPTION 5



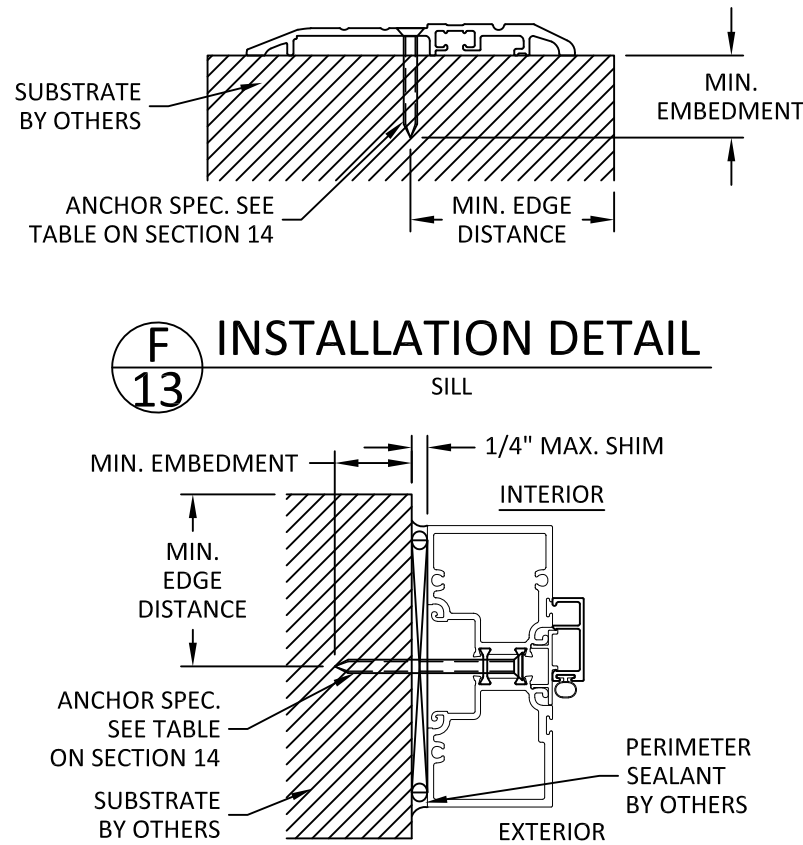
E INSTALLATION DETAIL
13 HEAD OPTIONS 6, 10



G INSTALLATION DETAIL
13 JAMB OPTION 1, 2, 3, 4, 5, 6



H INSTALLATION DETAIL
13 JAMB OPTIONS 7, 8, 10



F INSTALLATION DETAIL
13 SILL

I INSTALLATION DETAIL
13 JAMB OPTION 9

TUBELITE

DEPENDABLE

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CURTAINWALL AND ENTRANCE SYSTEMS

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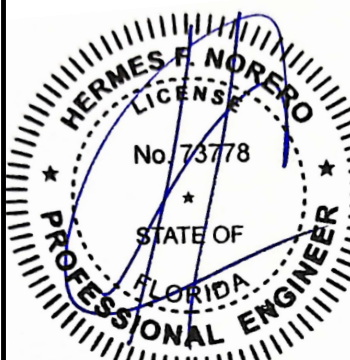
TITLE:
STANDARD/THERMAL/MONUMENTAL
ENTRANCE DOOR
(NON-HVHZ) (NON-IMPACT)
INSTALLATION DETAILS

PREPARED BY:
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REMARKS	BY	DATE

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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 #:		FL28368	
DATE:		10.08.2024	
DWG. BY:		CHK. BY:	
MS		HFN	
SCALE:		NTS	
DWG. #:		TLI030	
SECTION:			
13			
[PAGE 16 of 17]			

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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 1/2 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 SECTION 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 SPECIFICATION			
SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD: MIN. S.G. = 0.55	#12 WOOD SCREW	1 1/2"	1"
STEEL: MIN. 18 GA. ASTM A653, GRADE 33	#12 SELF-DRILLING OR SELF-TAPPING SCREW (MIN. GRADE 5)	3 THREADS MIN PENETRATION BEYOND METAL	1/2"
ALUMINUM: MIN. 3/32" THICK MIN. 6063-T5			
CONCRETE: MIN. f'c = 3000 psi	1/4" ITW TAPCON	1"	1 1/2"
	1/4" DEWALT ULTRAACON+	1 3/4"	1 1/2"
	1/4" HILTI KWIK-CON II	1"	1 1/2"
MASONRY: HOLLOW OR GROUT-FILLED BLOCK per ASTM C90, MIN. 2000 PSI	1/4" ITW TAPCON	1"	2"
	1/4" DEWALT ULTRAACON+	1 1/4"	2 1/2"
	1/4" HILTI KWIK-CON II	1"	1 1/4"

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HERMES F. NORERO

LICENSE

No. 73778

STATE OF FLORIDA

PROFESSIONAL ENGINEER

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