

KAWNEER COMPANY

350/500 IR 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 AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - ASTM E283-19
 - ASTM E330-14(21)
 - ASTM E331-00(16)
 - ASTM E1886-19
 - ASTM E1996-20
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 ±1/4 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.

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6.

APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN WIND ZONE 3 OR LESS.
7.

APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN WIND ZONE 4.
8.

DOOR FRAME AND DOOR MATERIAL: ALUMINUM (6063-T6).
9.

GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 1 FOR GLAZING DETAILS.

DESIGN PRESSURE RATING - LOCK			
MAXIMUM DOOR LEAF DIMENSION (IN.)		LOCK OPTION	DESIGN PRESSURE (+/- PSF)
WIDTH	HEIGHT		
42	90	VON DURPIN XP-98/99	50
36	96	FALCON HH1690	65
42	96	KAWNEER 1686	90
		MULTI-POINT LOCK 1*	90
48	96	CORBIN RUSSWIN ED5200S(A)	50
48	96	VON DURPIN HH-KAW-9947	65
		SARGENT AD8400	70
		ADAMS RITE G86	70
		CALIBRE 9100	70
		PANELINE CR-90	70
		KAWNEER 1686	70
		JACKSON 2086	90
		MULTI-POINT LOCK 1*	70
		MULTI-POINT LOCK 2*	90

* SEE MULTI-POINT LOCK SCHEDULE ON SHEET 2

DESIGN PRESSURE RATING - GLASS			
MAXIMUM DOOR LEAF OPENING WIDTH (IN.)		GLASS OPTION	DESIGN PRESSURE (+/- PSF)
SINGLE DOOR	DOUBLE DOOR		
48	96	1 & 2	70
42	84	5C & 5D	90
48	96	3B & 3C	60
		5A & 5B	65
		4A, 4B, 4D, & 4E	70
		3A & 4C	90

DESIGN PRESSURE RATING - HINGE		
MAXIMUM DOOR LEAF HEIGHT (IN.)	BUTT/PIVOT HINGE QUANTITY	DESIGN PRESSURE (+/- PSF)
90	3	70
96	4	90

NOTE:

- THE LESSER PRESSURE IN ANY ONE TABLE SHALL CONTROL AS THE ALLOWABLE PRESSURE ON THE DOOR ASSEMBLY.
- CONDITIONS SHOWN ABOVE ARE APPLICABLE TO ALL DOOR FRAME TYPES.
- SEE SHEET 3 FOR DOOR FRAME AND D.L.O. SIZES.
- THESE DOOR UNITS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. UNLESS UNITS ARE INSTALLED ONLY AT LOCATIONS COVERED BY A OVERHANG WHERE THE OVERHANG RATIOS IS EQUAL TO OR MORE THAN 1:1 PER FBC.
- SEE SHEET 2 FOR GLAZING DETAILS AND OPTIONS.
- 3 HINGES PER DOOR IS ONLY APPLICABLE FOR LEAF HEIGHTS OF 90" OR LESS AND ARE LIMITED TO A PRESSURE OF 70 PSF.
- UNITS WITH 4 HINGES ARE LIMITED TO A DESIGN PRESSURE OF 90 PSF.
- WHEN USED WITH CURTAIN WALL OR STOREFRONT SYSTEM, THE LESSER VALUE BETWEEN THE TWO SYSTEMS WILL BE THE CONTROLLING PRESSURE.

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CORNER & FRAME END CONSTRUCTION:
HEAD IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH THREE (3) NO. 12 x 1" S.S. PHTFS FASTENERS THROUGH THE SIDE MEMBER INTO THE HEAD MEMBER SCREW SPLINES & SEALED WITH SILICONE.
FRAME HEAD CORNER (TRIFAB 450/451 FRAME): HEAD IS SQUARE CUT, BUTTED TO SIDE, SECURED WITH SHEAR BLOCK ITEM# 16 (SEE SECTION G/5 & M/6) & SEALED WITH SILICONE.
FRAME SILL CORNER: SILL IS SQUARE CUT, BUTTED TO SIDE, SECURED TO THE SIDE MEMBER USING A PIVOT ASSEMBLY OR STEEL CLIP, FASTENED WITH THREE (3) NO. 12-24 x 3/8" FHMS AT THE FRAME & TWO (2) NO. 12-24 x 3/8" FHMS AT THE SILL, & SEALED WITH SILICONE.
DOOR PANEL CORNERS: VERTICAL STILES RUN THROUGH AND ARE SECURED TO THE RAILS AT THE TOP & BOTTOM WITH 1/4" THICK EXTRUDED CHANNELS. EACH CHANNEL IS FASTENED TO THE STILE & RAIL WITH 1/4-20 x 3/4" PHMS & 3/16" THICK STEEL NUT PLATES. THE INTERSECTION OF EACH CORNER JOINT WAS WELDED WITH A 1/2" DIA. PLUG WELD AND A MINIMUM OF ONE (1) 1-1/8" LONG FILLET WELD AT BOTH WEBS OF THE RAIL.
MIDRAIL ENDS: SECURED TO THE VERTICAL RAILS WITH FOUR EACH 1-1/8" LONG FILLET WELDS



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350/500 IR
OUTSWING DOORS
(WZ3)(IMPACT)

GENERAL NOTES AND
DESIGN PRESSURE TABLE

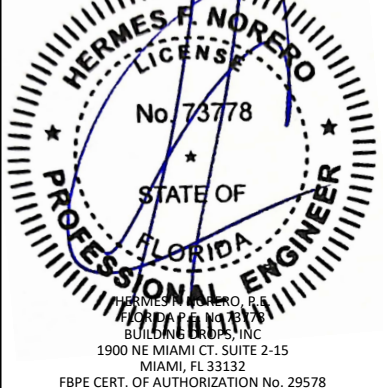
PREPARED BY:

BUILDING DROPS, INC.
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MIAMI, FL 33132
PH: (954)399-8478
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REMARKS	BY	DATE

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
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FL #:

FL47880

DATE:

03.11.2025

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CHK. BY:

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SCALE:

NTS

DWG. #:

KAW045

SHEET:

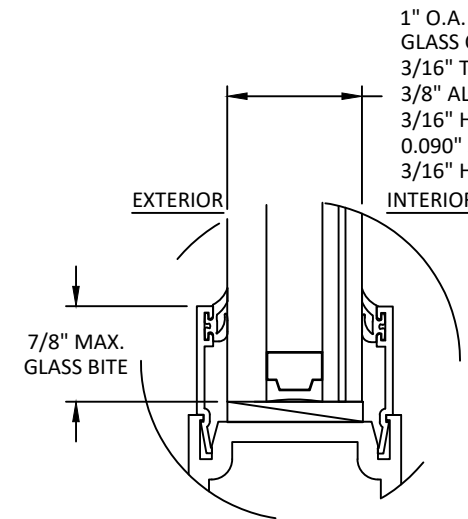
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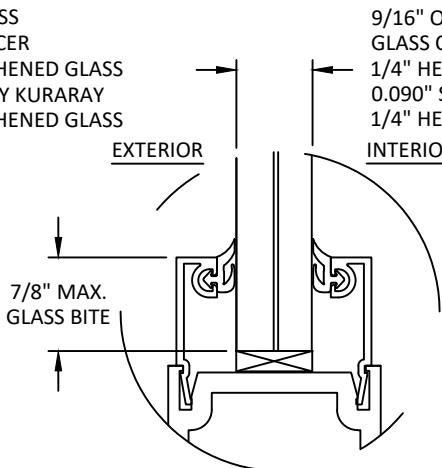
1. GLAZING LEGEND:
- I. GLAZING OPTIONS FOR GLAZING DETAIL 3:
- 3A. - 0.090" KURARAY SG
 - 3B. - 0.090" BUTACITE PVB
 - 3C. - 0.090" SAFLEX STORM (EASTMAN CHEMICAL CO.)
- II. GLAZING OPTIONS FOR GLAZING DETAIL 4:
- 4A. - 0.090" SAFLEX STORM (EASTMAN CHEMICAL CO.)
 - 4B. - 0.090" KURARAY SG
 - 4C. - 0.077" SAFLEX STORM (EASTMAN CHEMICAL CO.)
 - 4D. - 0.100" SAFLEX STORM (EASTMAN CHEMICAL CO.)
 - 4E. - 0.090" KURARAY BUTACITE PVB
- III. GLAZING OPTIONS FOR GLAZING DETAIL 5:
- 5A. - 0.090" SAFLEX STORM (EASTMAN CHEMICAL CO.)
 - 5B. - 0.090" KURARAY BUTACITE PVB
 - 5C. - 0.090" KURARAY SG
 - 5D. - 0.077" SAFLEX STORM (EASTMAN CHEMICAL CO.)

MULTI-POINT LOCK SCHEDULE		
LOCK	INACTIVE	ACTIVE
LOCK 1	KAWNEER FLUSH BOLTS WITH KAWNEERS PUSH PACKAGE	ADAMS-RITE 1850 3-POINT LOCK SYSTEM WITH KAWNEER'S CYLINDER, THUMBTURN & PUSH PACKAGE
LOCK 2	ADAMS-RITE 2180 TWO-POINT SYSTEM WITH KAWNEERS PUSH PACKAGE	ADAMS-RITE 1850 3-POINT LOCK SYSTEM WITH KAWNEER'S CYLINDER, THUMBTURN & PUSH PACKAGE

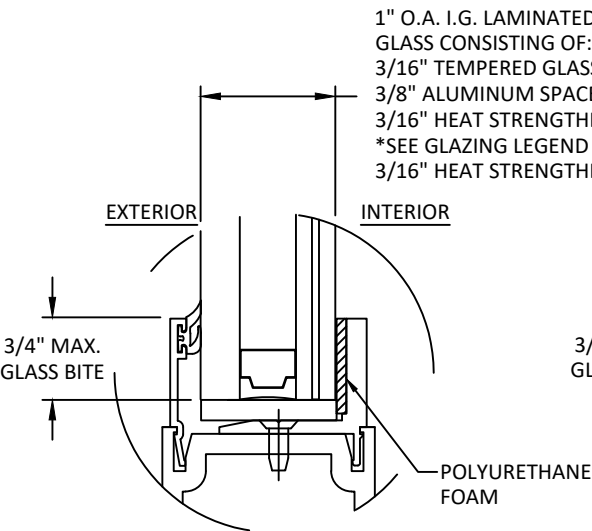
* SEE TABLE ON SHEET 1 FOR THE DESIGN PRESSURE OF LOCK OPTIONS.



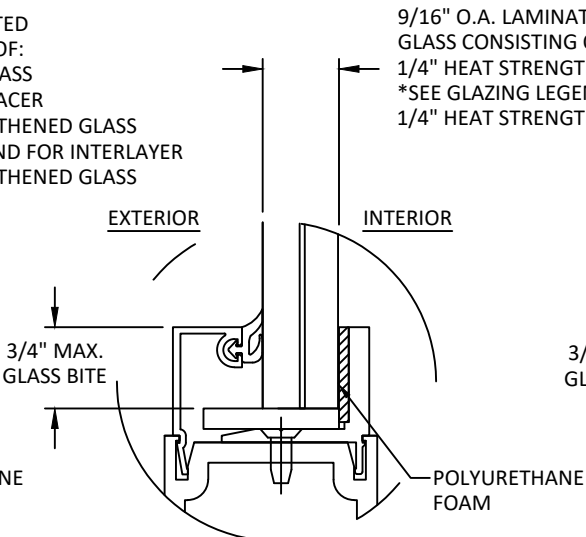
GLAZING DETAIL 1



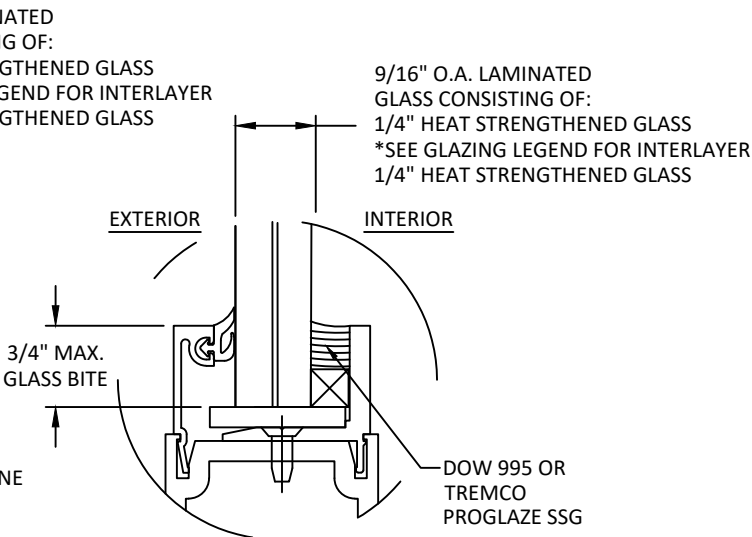
GLAZING DETAIL 2



GLAZING DETAIL 3

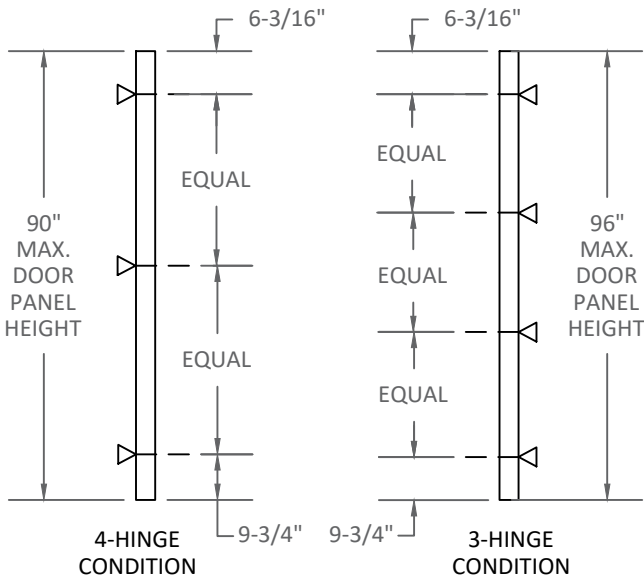


GLAZING DETAIL 4

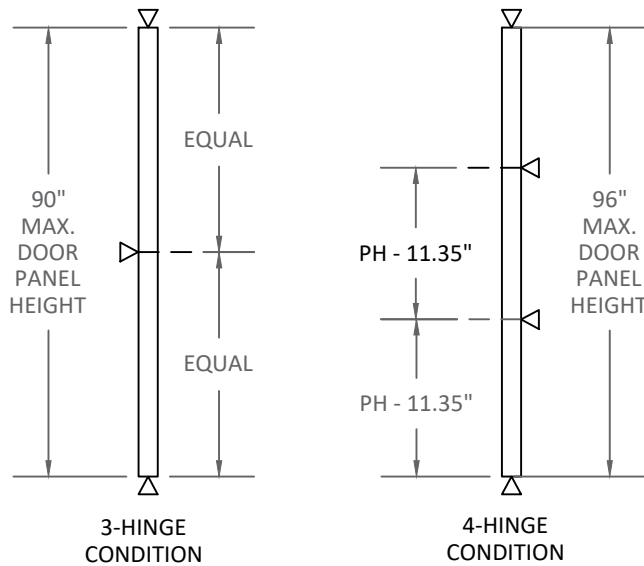


GLAZING DETAIL 5

- GLAZING NOTES:
- GLASS TYPE COMPLIES WITH ASTM E1300 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 SHOWN HEREIN.



BUTT HINGE LOCATION



PIVOT HINGE LOCATION

- NOTE:
- 3 HINGES PER DOOR PANEL OR DOORS WITH VON DUPRIN XP 98/99 PANIC DEVICES ARE RESTRICTED TO A PANEL HEIGHT OF 90" & LESS.
 - ALLOWABLE DESIGN PRESSURES ARE RESTRICTED BY THE BUTT HINGE OR PIVOT HINGE QUANTITY AS DESCRIBED IN THE CHART ON SHEET 1.

- LEGEND:
- PH = PANEL HEIGHT
 - ▷ = HINGE LOCATION



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GLAZING DETAILS AND
HARDWARE SCHEDULE

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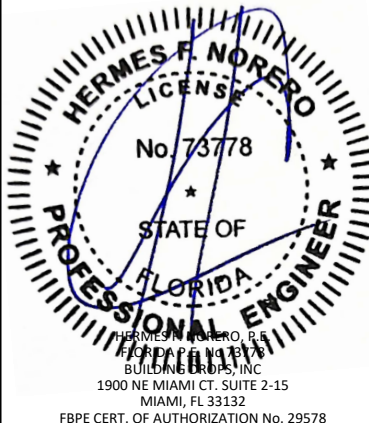
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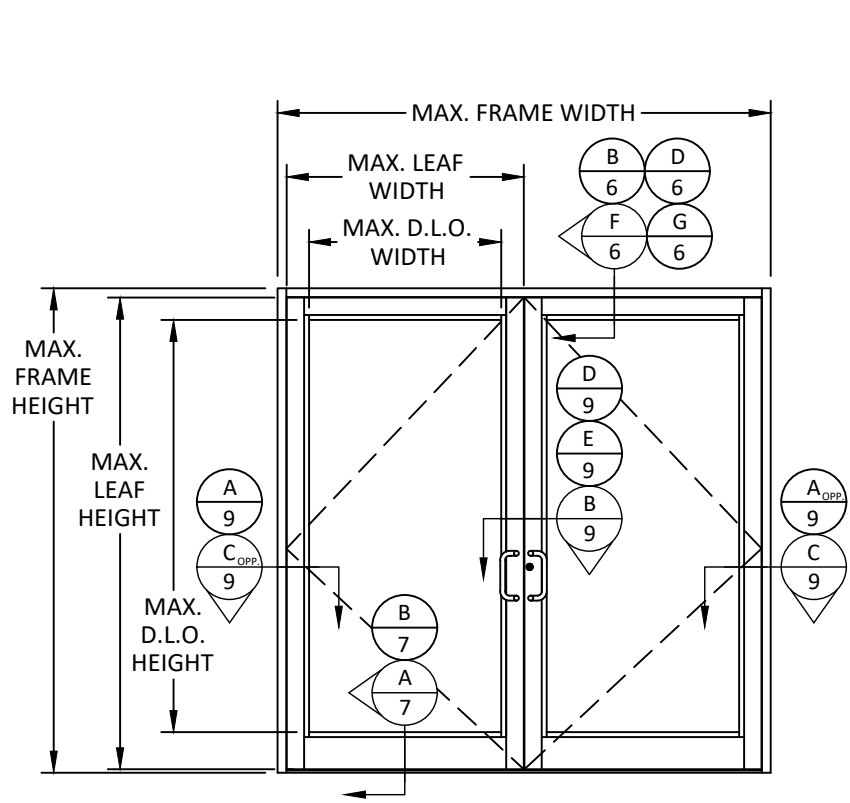
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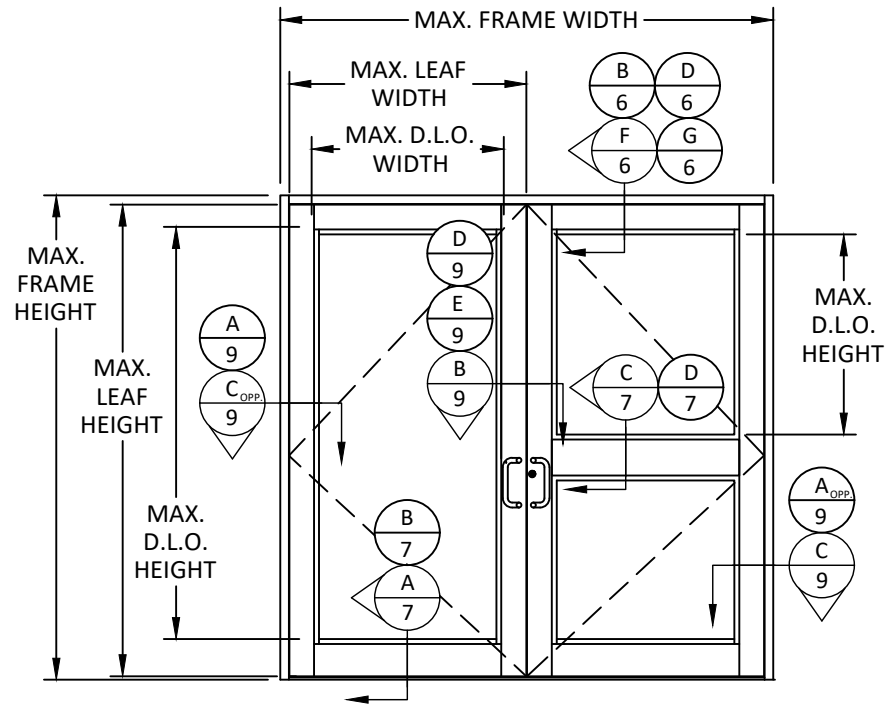
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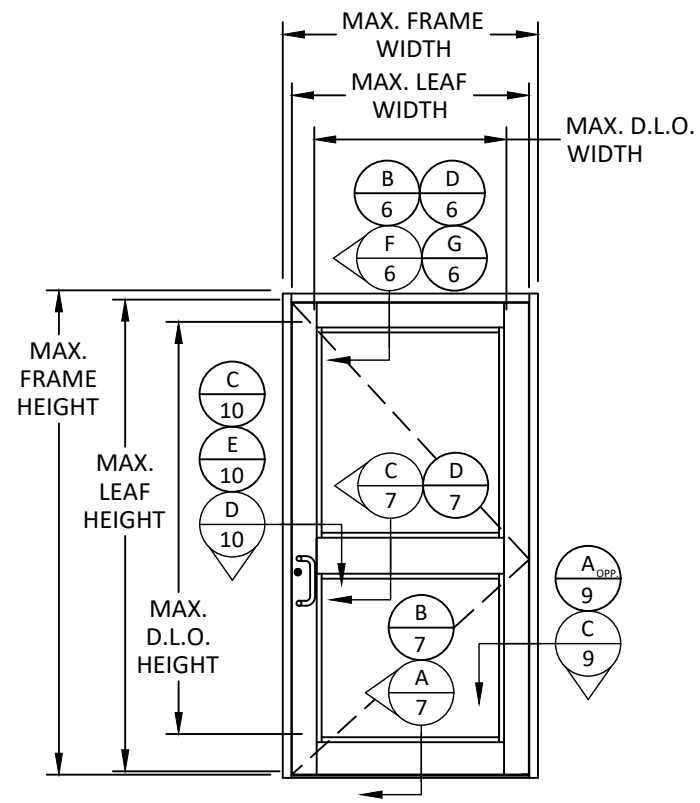
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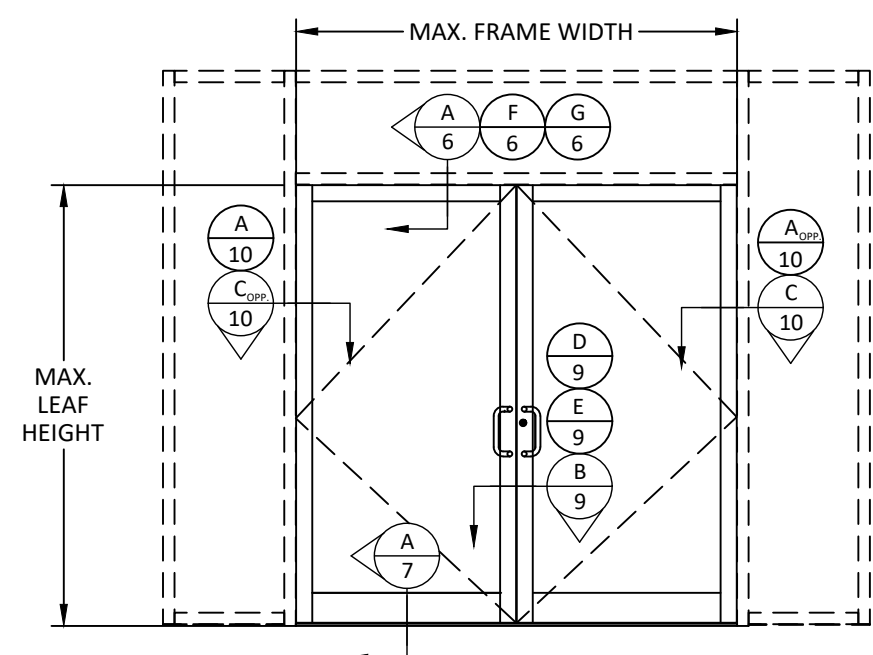
ELEVATION



ELEVATION

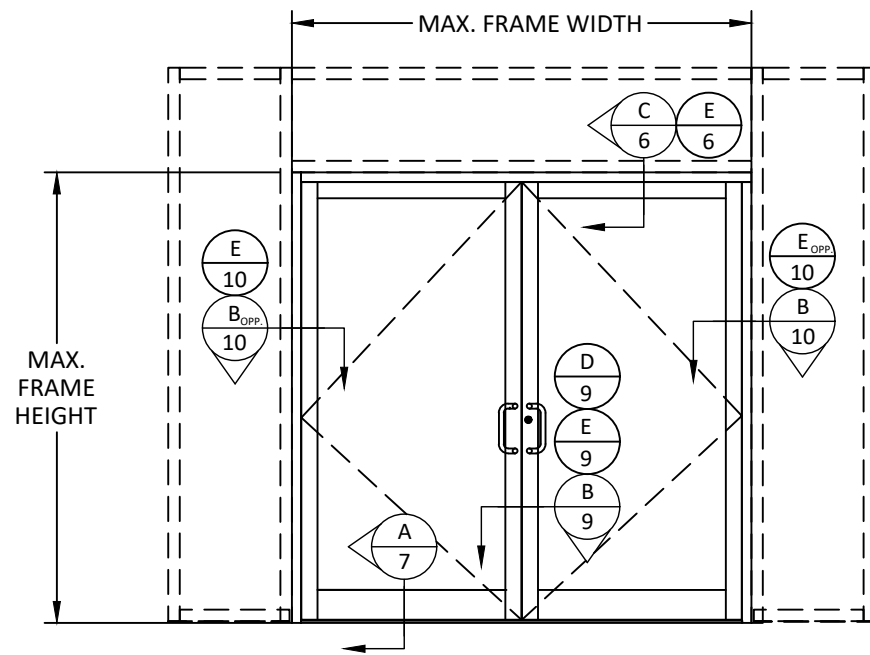


ELEVATION



ELEVATION

DOORS INSIDE IR-500 OR IR-501
STORE FRONT SYSTEM



ELEVATION

DOORS INSIDE 1600 SYSTEM 1
CURTAIN WALL

IR350/500 OUTSWING DOOR - DOOR LEGEND					
FRAME SERIES	STILE SERIES	DOOR OPENING (D.O.)		D.L.O.	
		WIDTH (W)	HEIGHT (H)	WIDTH (W)	HEIGHT (H)
500/501 FRAME	500 SERIES	FW - 5.00"	FH - 2.50"	D.O.(W) - 12-3/16"	D.O.(H) - 14-5/16"
	350 SERIES			D.O.(W) - 9-3/16"	D.O.(H) - 12-13/16"
521 FRAME	500 SERIES	FW - 5.50"	FH - 2.50"	D.O.(W) - 12-3/16"	D.O.(H) - 14-5/16"
	350 SERIES			D.O.(W) - 9-3/16"	D.O.(H) - 12-13/16"
451 FRAME	500 SERIES	FW - 4.00"	FH - 2.00"	D.O.(W) - 12-3/16"	D.O.(H) - 14-5/16"
	350 SERIES			D.O.(W) - 9-3/16"	D.O.(H) - 12-13/16"
450 FRAME	500 SERIES	FW - 3.50"	FH - 1.75"	D.O.(W) - 12-3/16"	D.O.(H) - 14-5/16"
	350 SERIES			D.O.(W) - 9-3/16"	D.O.(H) - 12-13/16"

- NOTE:
- FW = FRAME WIDTH
 - FH = FRAME HEIGHT
 - FOR DOUBLE DOORS DIVIDE D.O.(W) BY TWO FOR D.L.O. WIDTH
- DOOR LEAF CLEARANCE:
- 1/8" CLEARANCE AT HEAD AND JAMBS AND 11/16" CLEARANCE AT SILL
 - 3/32" HINGE & LOCK CLEARANCE AT JAMBS

NOTE: CURTAIN WALL AND STOREFRONT UNDER SEPARATE APPROVAL. FRAMING REQUIREMENTS AND INSTALLATION UNDER SEPARATE APPROVAL FOR STOREFRONT AND CURTAIN WALL CONFIGURATIONS. LESSER ALLOWABLE PRESSURE RATING OF THE DOORS & STOREFRONT/ CURTAIN WALL SHALL CONTROL FOR THE O.A. ASSEMBLY



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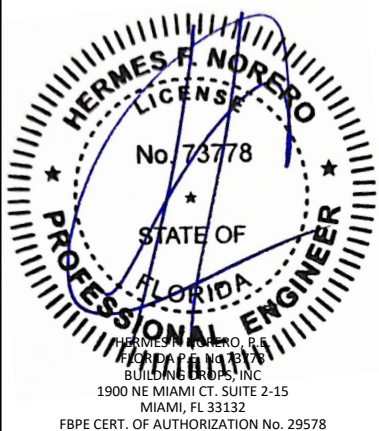
ELEVATIONS

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CHK. BY: HFN

SCALE: NTS

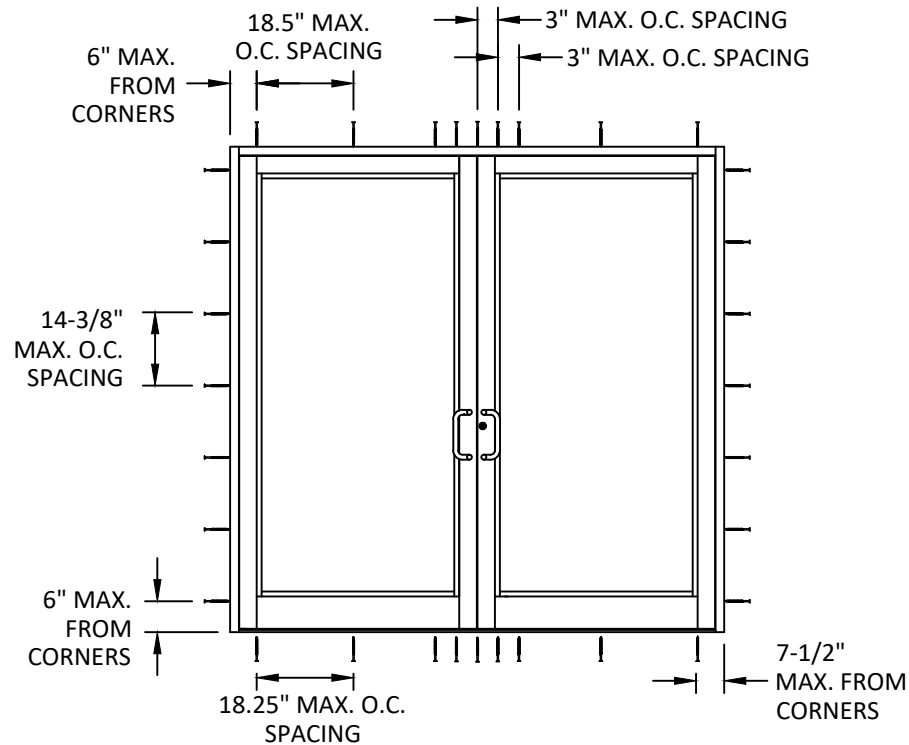
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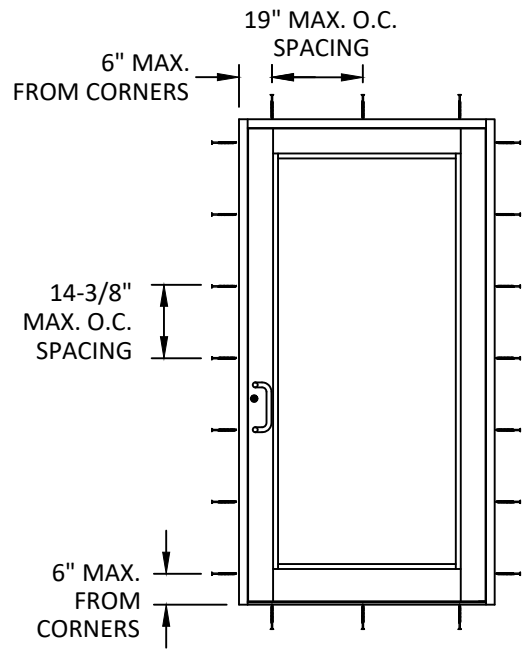
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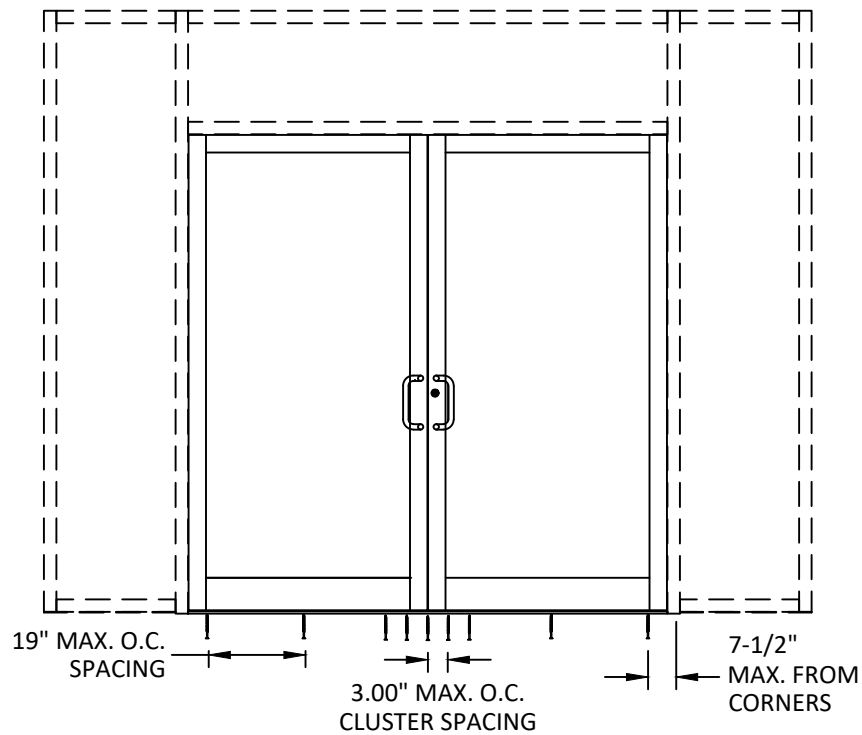
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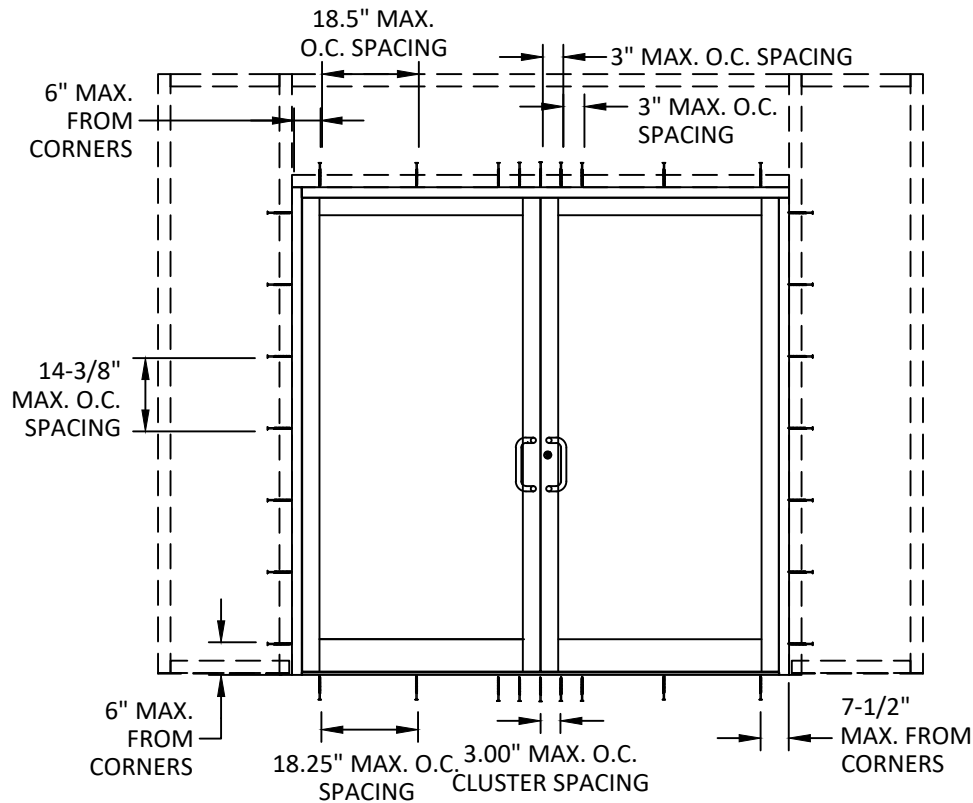
ANCHOR LAYOUT



ANCHOR LAYOUT



ANCHOR LAYOUT
DOORS INSIDE IR-500 OR IR-501
STORE FRONT SYSTEM
(UNDER SEPARATE APPROVAL)
(ANCHOR SPACING TO MATCH ABOVE)



ANCHOR LAYOUT
DOORS INSIDE 1600 SYSTEM 1
CURTAIN WALL
(UNDER SEPARATE APPROVAL)
(ANCHOR SPACING TO MATCH ABOVE)



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ANCHOR LAYOUTS

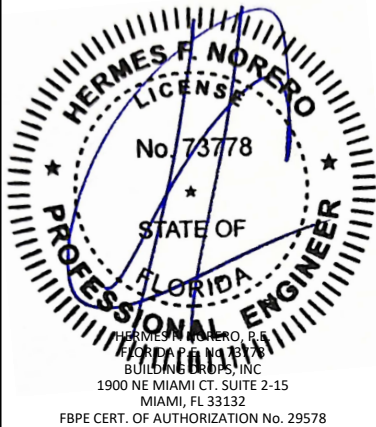
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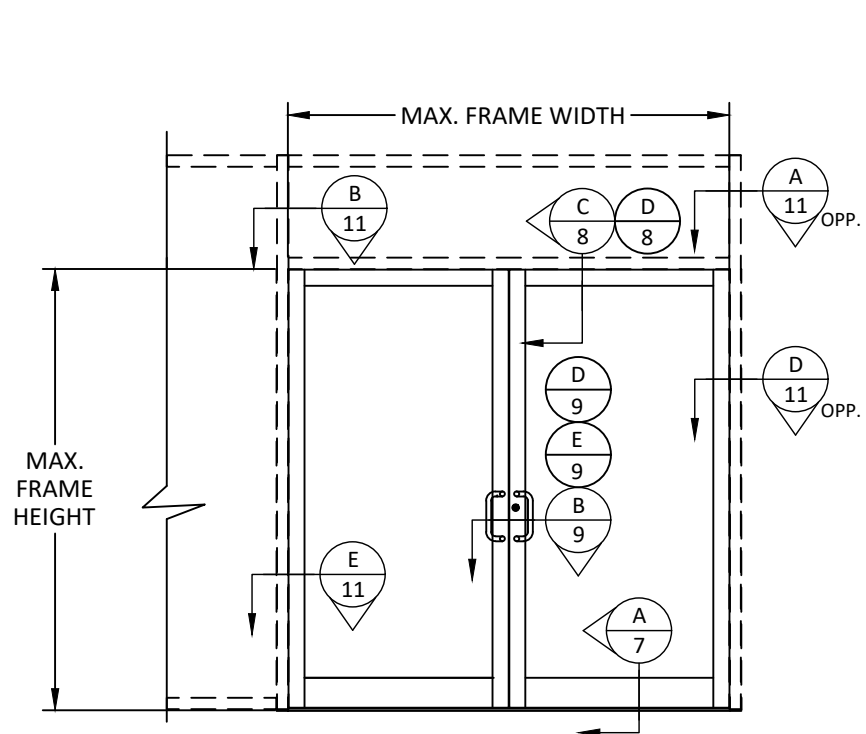
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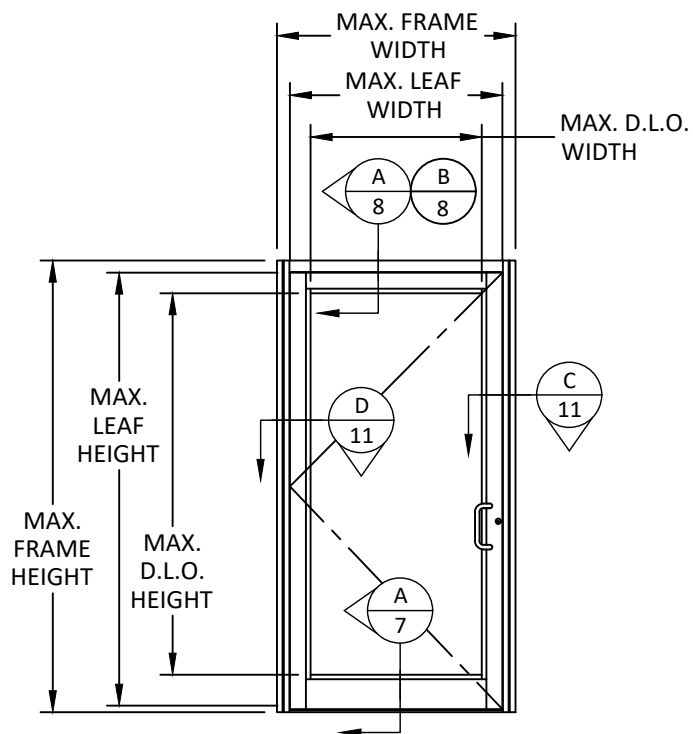


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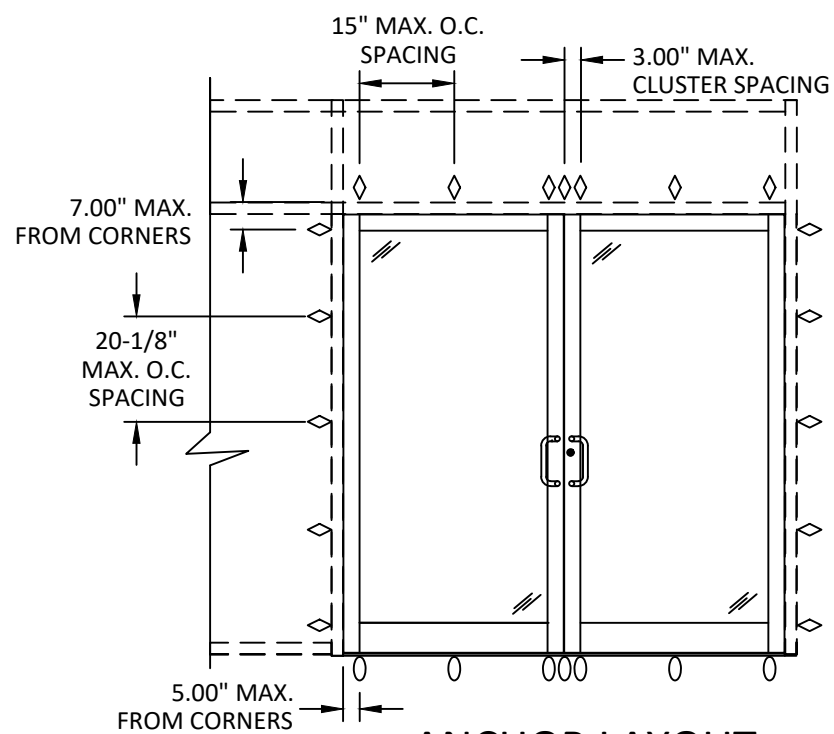
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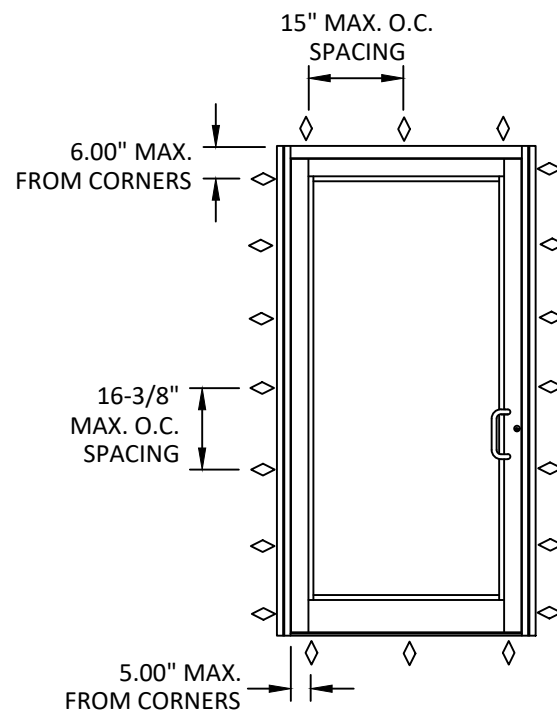
ELEVATION
DOORS INSIDE IR-521
STOREFRONT SYSTEM
(UNDER SEPARATE APPROVAL)



ELEVATION
IR-521 FRAME
STOREFRONT SYSTEM
(UNDER SEPARATE APPROVAL)



ANCHOR LAYOUT
IR-521 STOREFRONT



ANCHOR LAYOUT
IR-521 FRAME



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ELEVATIONS AND ANCHOR LAYOUTS

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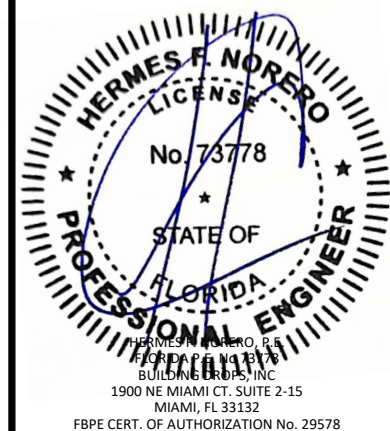
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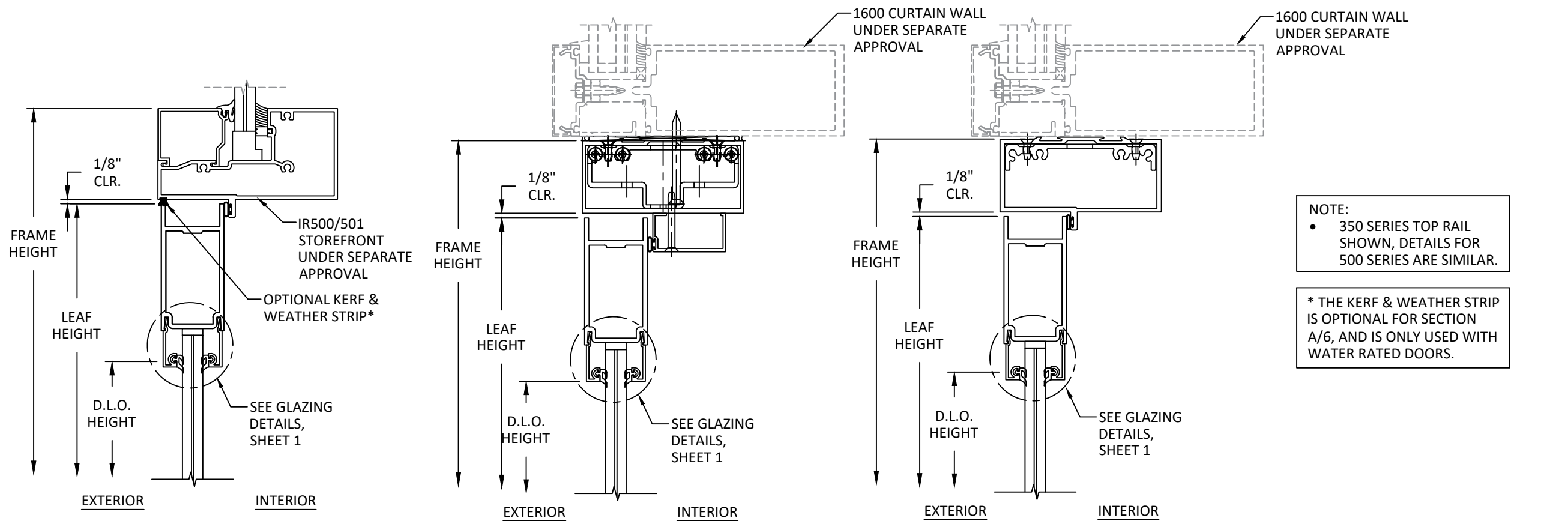
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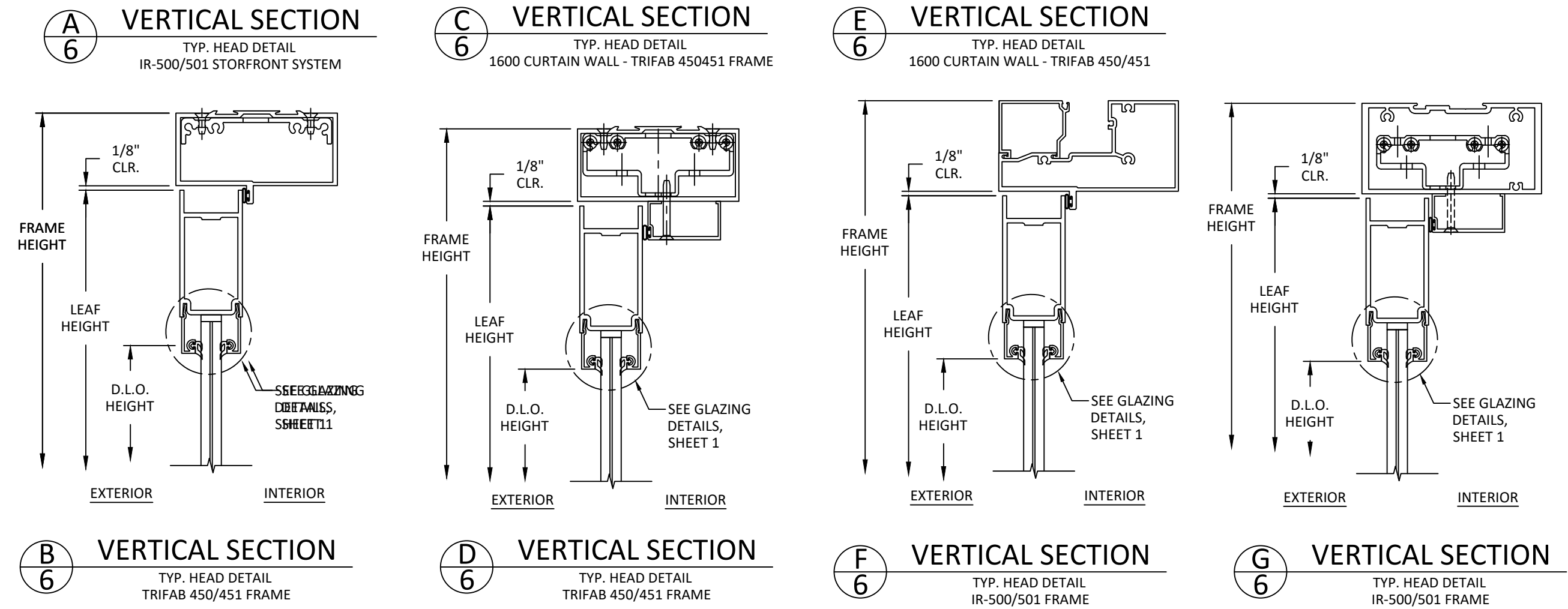
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NOTE:
• 350 SERIES TOP RAIL SHOWN, DETAILS FOR 500 SERIES ARE SIMILAR.

* THE KERF & WEATHER STRIP IS OPTIONAL FOR SECTION A/6, AND IS ONLY USED WITH WATER RATED DOORS.





KAWNEER
AN ARCONIC COMPANY

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OUTSWING DOORS
(WZ3)(IMPACT)

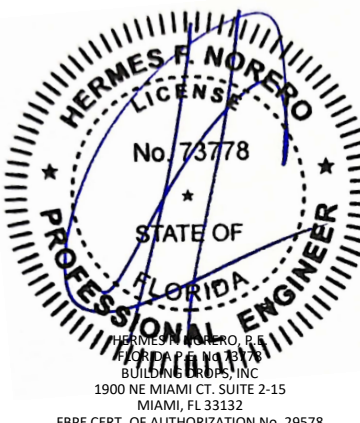
VERTICAL SECTIONS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, 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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HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL47880

DATE: 03.11.2025

DWG. BY: FB	CHK. BY: HFN
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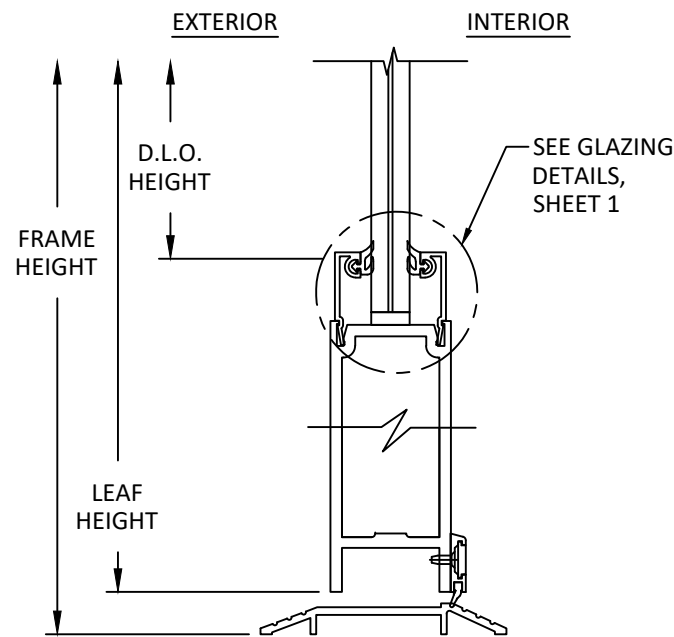
SCALE: NTS

DWG. #: KAW045

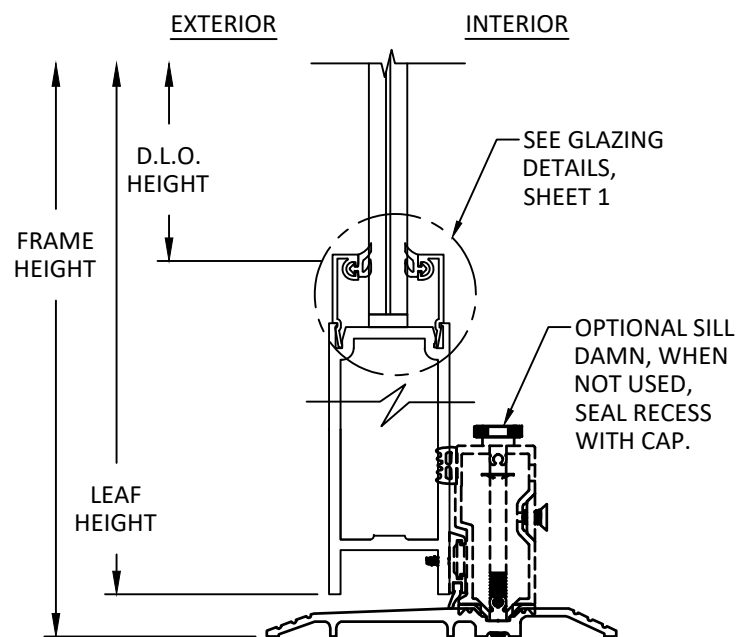
SHEET: 6

OF 17

c:\users\mengqisun\building drops, inc\building drops landing - common\projects\kawneer company\fb-24-1041.1 - fbc submittal - aluminum entrance door products\dwgs\kaw045.dwg 10/22/2025 3:29 PM

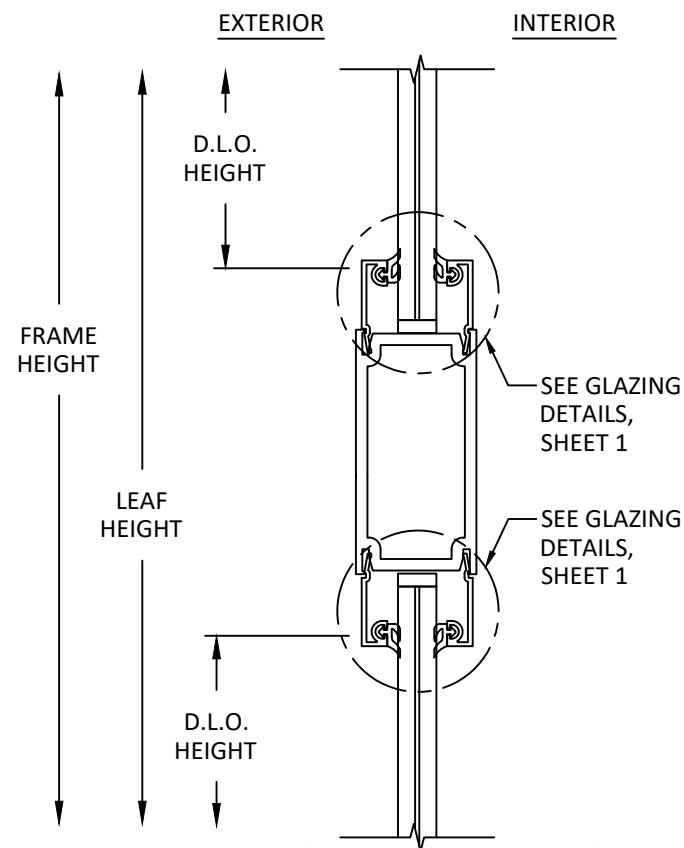


A
7
VERTICAL SECTION
TYP. SILL

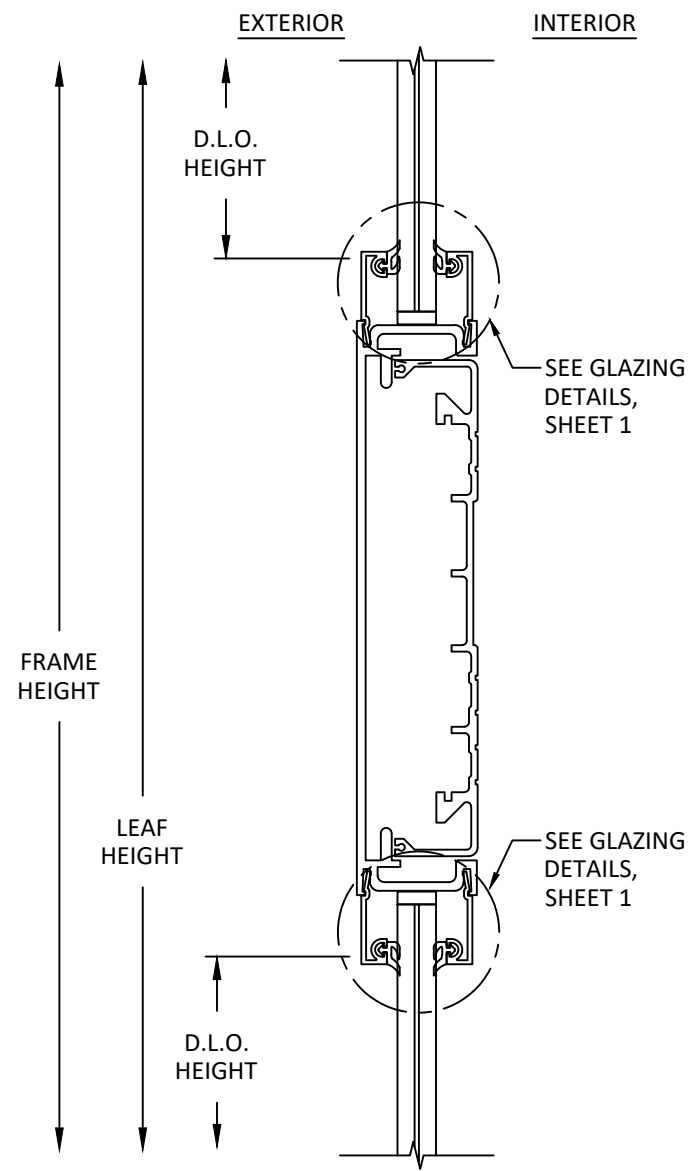


B
7
VERTICAL SECTION
TYP. SILL
W/ SILL DAM

- NOTE:
- 350 SERIES SHOWN, DETAILS FOR 500 SERIES ARE SIMILAR.
 - THIS MID-RAIL SHALL NOT BE USED FOR DOORS WITH A DESIGN PRESSURE OVER +/- 70 PSF
 - SECTION B/7 SILL WITH DAM ASSEMBLY ARE ONLY USED WITH WATER RATED DOORS.
 - IT SHALL BE DOOR OWNERS RESPONSIBILITY TO INSURE THE SILL DAM IS INSTALLED IN THE EVENT OF ANY MAJOR STORM.



C
7
VERTICAL SECTION
TYP. MID RAIL



D
7
VERTICAL SECTION
TYP. MID RAIL



KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
PH: (770) 449 - 5555

TITLE: 350/500 IR
OUTSWING DOORS
(WZ3)(IMPACT)

VERTICAL SECTIONS

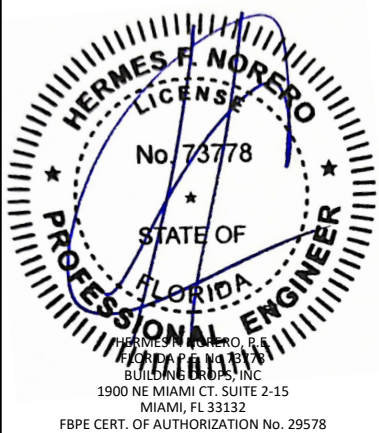
PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



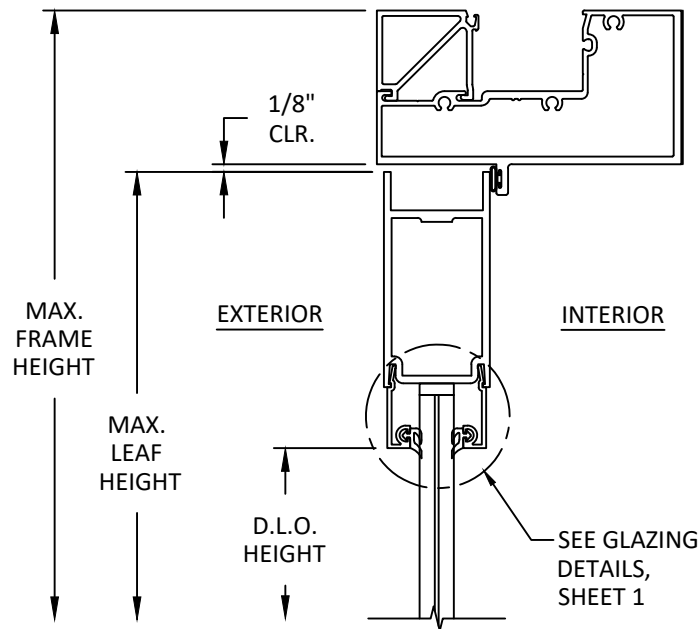
REMARKS	BY	DATE

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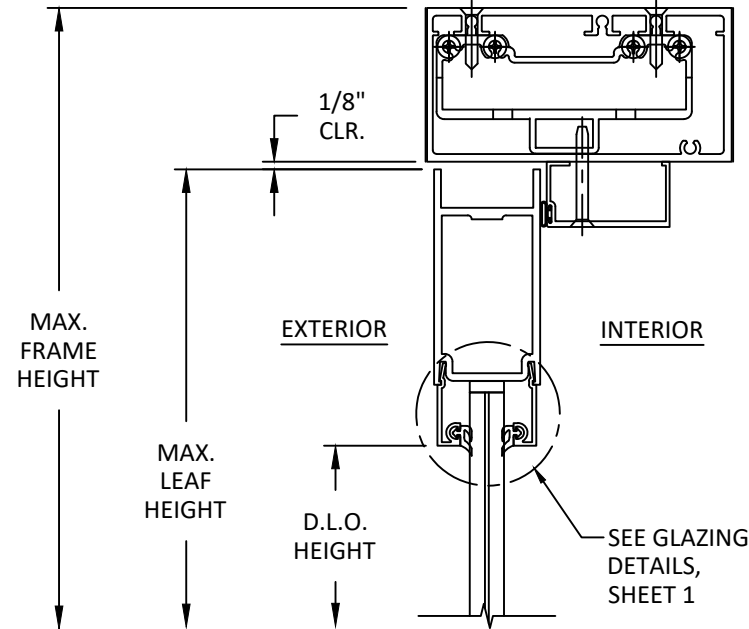


FL #:	FL47880
DATE:	03.11.2025
DWG. BY:	FB
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	KAW045
SHEET:	7

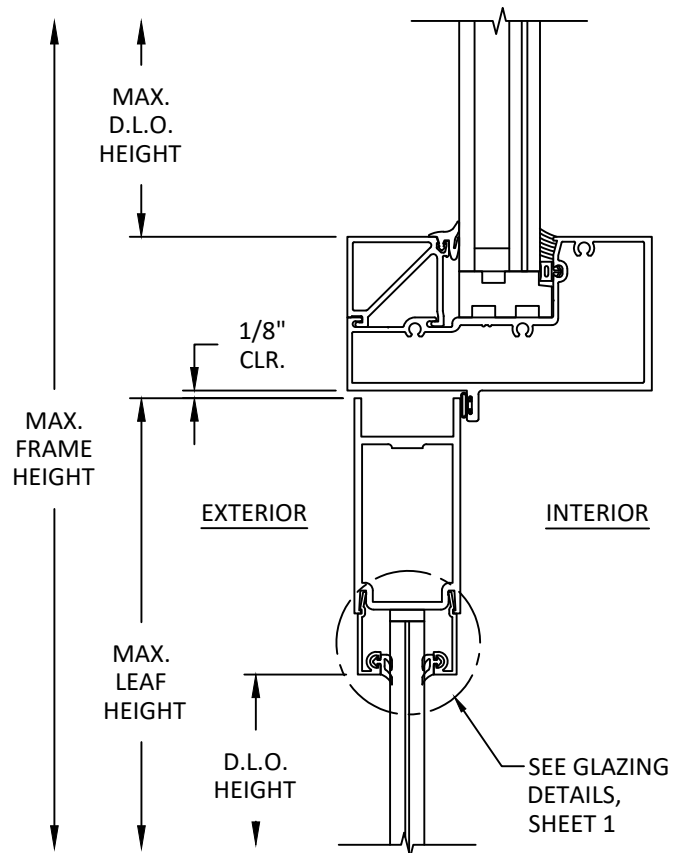
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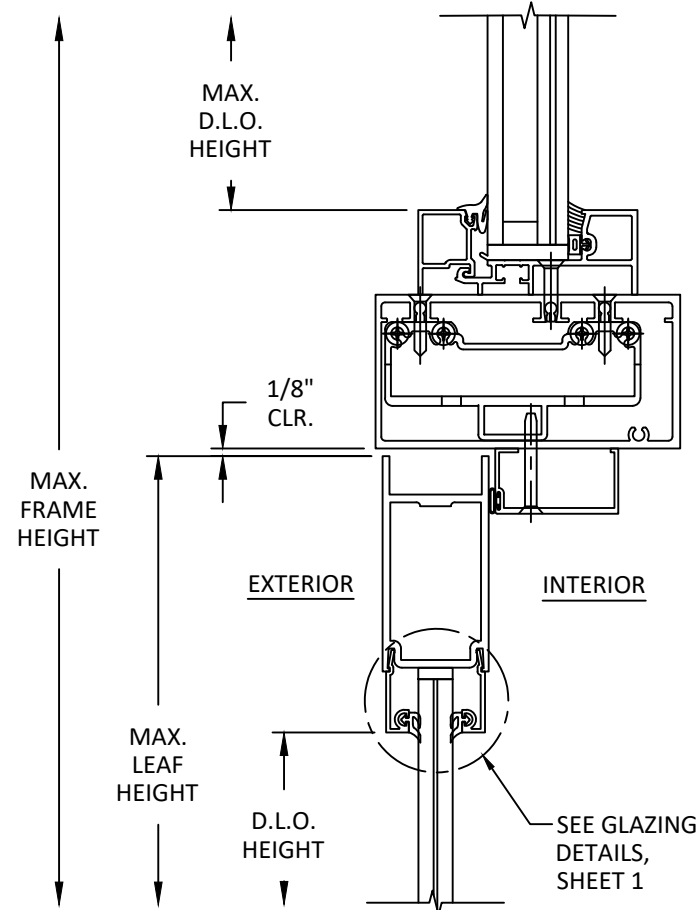
A
8
VERTICAL SECTION
TYP. HEAD DETAIL
IR521 FRAME



B
8
VERTICAL SECTION
TYP. HEAD DETAIL
IR521 FRAME - COC HEADER



C
8
VERTICAL SECTION
TYP. HEAD DETAIL
IR521 TRANSOM BAR



D
8
VERTICAL SECTION
TYP. HEAD DETAIL
IR521 COC HEADER - TRANSOM



KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
PH: (770) 449 - 5555

TITLE: 350/500 IR
OUTSWING DOORS
(WZ3)(IMPACT)

VERTICAL SECTIONS

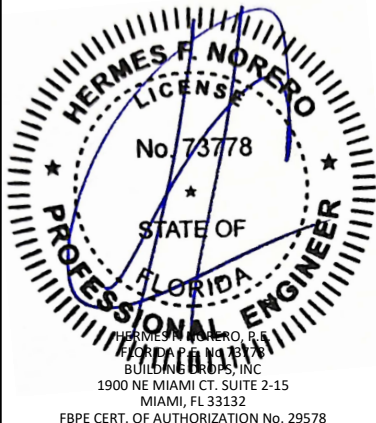
PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT. 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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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	KAW045
SHEET:	8



This technical drawing illustrates the cross-section of a window frame, detailing its internal structure and dimensions. The drawing is divided into two main sections: the **INTERIOR** view at the top and the **EXTERIOR** view at the bottom.

Key Components and Callouts:

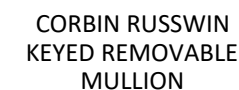
- SEE MULLION DETAIL:** Points to the central vertical support structure.
- SEE GLAZING DETAILS, SHEET 1:** Two callouts pointing to the glazing assembly on either side of the mullion.
- BOTTOM RETAINER AS SUPPLIED:** Points to the bottom support component within the glazing assembly.

Dimensions:

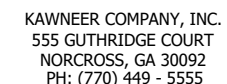
- D.L.O. WIDTH:** Dimension lines indicate the width of the frame sections on either side of the central mullion.
- LEAF WIDTH:** Dimension lines indicate the width of the individual window leaves.
- FRAME WIDTH:** A dimension line at the bottom indicates the total width of the frame assembly.



- CONTINUOUS HINGE SHOWN, BUTT AND PIVOT HINGE DETAIL IS SIMILAR
- SECTION B/9 MEETING STILE COVERS ARE ONLY USED WITH WATER RATED IR-501 DOORS.
- SECTION B/9 IS APPLICABLE WITH ALL LOCK CONDITIONS WITH EXCEPTION OF CORBIN RUSSWIN AND VON DUPRIN PANIC DEVICE.
- SECTIONS D/9 & E/9 ARE APPLICABLE WITH CORBIN RUSSWIN AND VON DUPRIN PANIC DEVICE ONLY.



NOTE:
SEE SHEETS 12 & 13 FOR MULLION
INSTALLATION DETAILS. SEE ANCHOR
SCHEDULE ON SHEET 14 FOR DETAILS.



HORIZONTAL SECTIONS

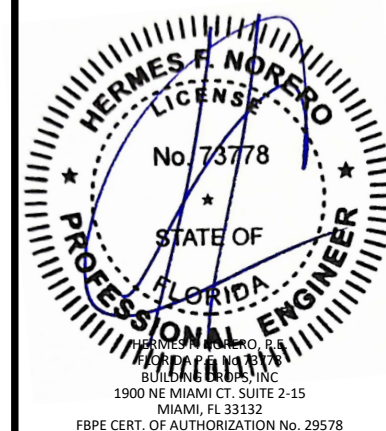
PREPARED BY:

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



REMARKS	BY	DATE

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FL47880

DATE: 03.11.2025

DWG. BY:
FB

CHK. BY:
HFN

SCALE: **NTS**

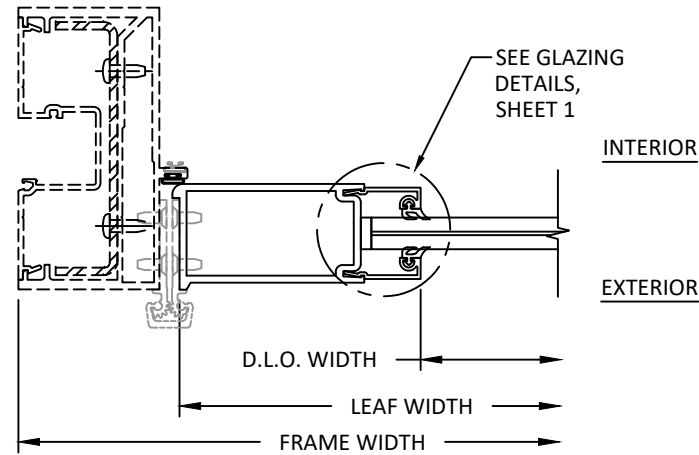
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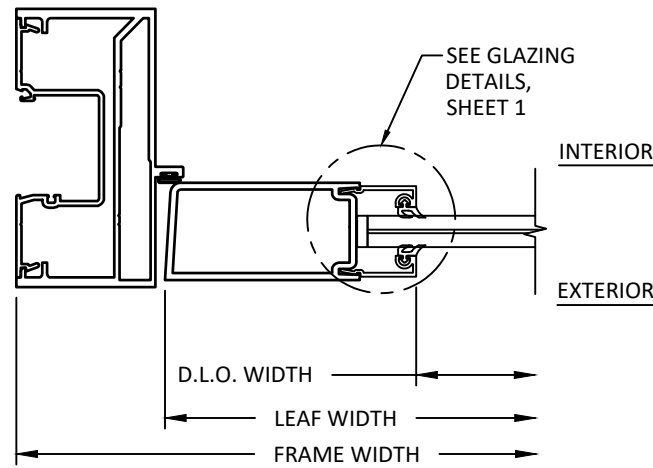
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OF 17

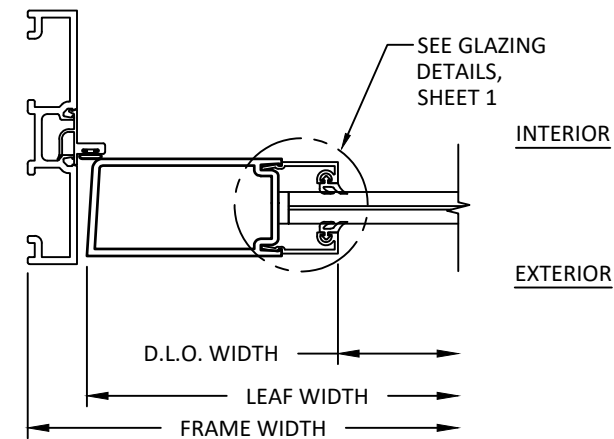
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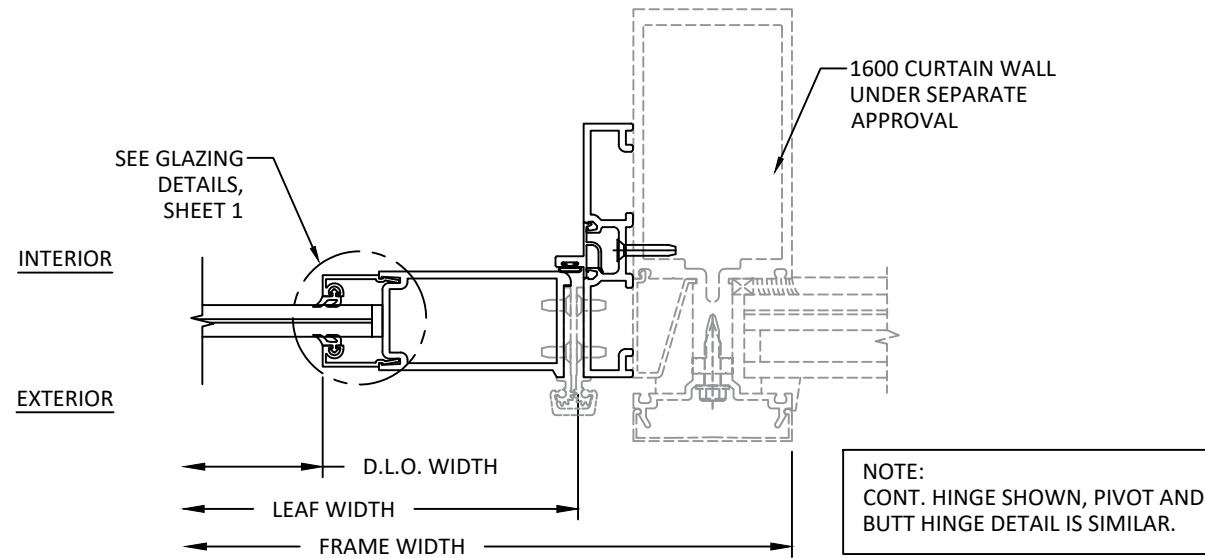
A **HORIZONTAL SECTION**
10 TYP. JAMB DETAIL
IR-500/501 STOREFRONT



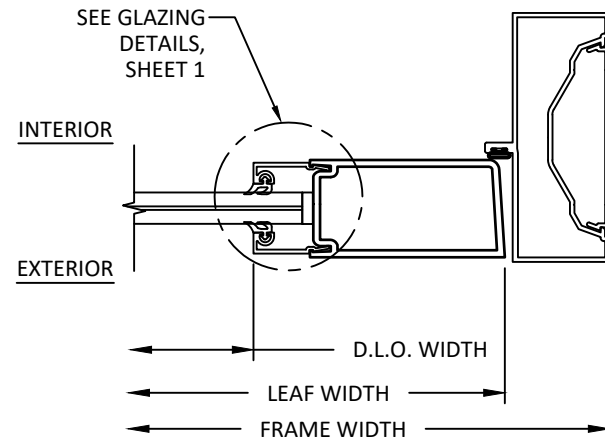
C **HORIZONTAL SECTION**
10 TYP. LOCK JAMB DETAIL FOR SINGLE DOOR
IR-500/501 FRAME



E **HORIZONTAL SECTION**
10 TYP. LOCK JAMB DETAIL FOR SINGLE DOOR
1600 DOOR JAMB ADAPTOR



B **HORIZONTAL SECTION**
10 TYP. JAMB DETAIL
1600 CURTAIN WALL MULLION



D **HORIZONTAL SECTION**
10 TYP. LOCK JAMB DETAIL FOR SINGLE DOOR
IR 450/451 FRAME



KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
PH: (770) 449 - 5555

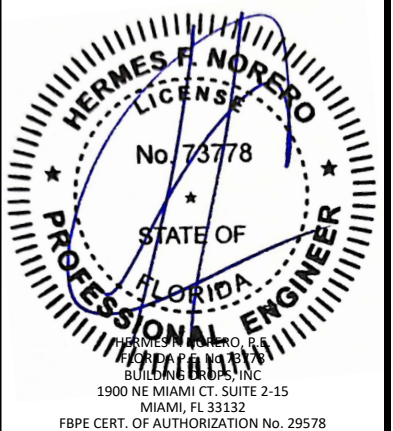
TITLE: 350/500 IR
OUTSWING DOORS
(WZ3)(IMPACT)
HORIZONTAL SECTIONS

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



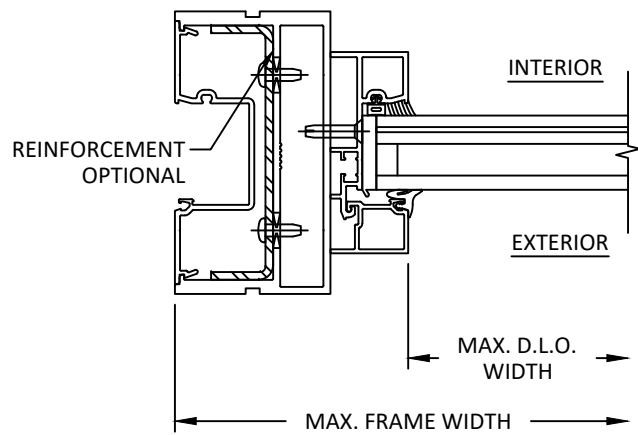
REMARKS	BY	DATE

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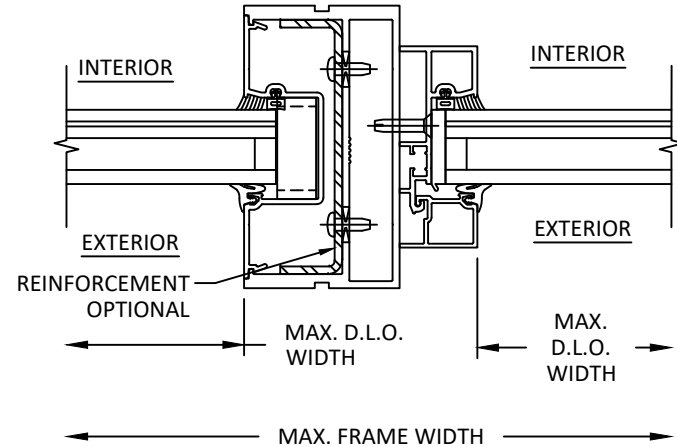


FL #:	FL47880
DATE:	03.11.2025
DWG. BY:	CHK. BY:
FB	HFN
SCALE:	NTS
DWG. #:	KAW045
SHEET:	10

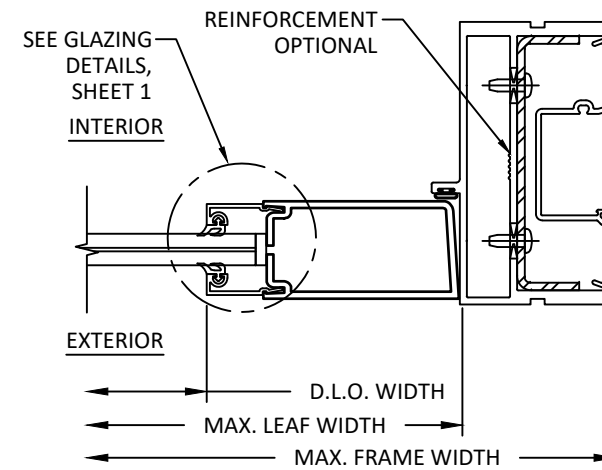
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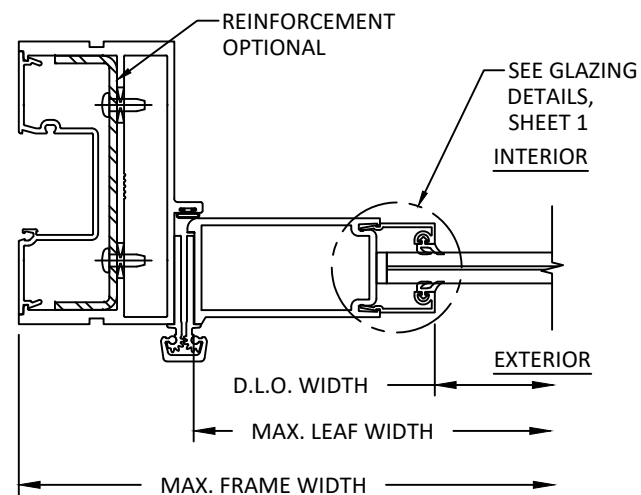
A
11 HORIZONTAL SECTION
TYP. JAMB DETAIL
IR521 TRANSOM FRAME



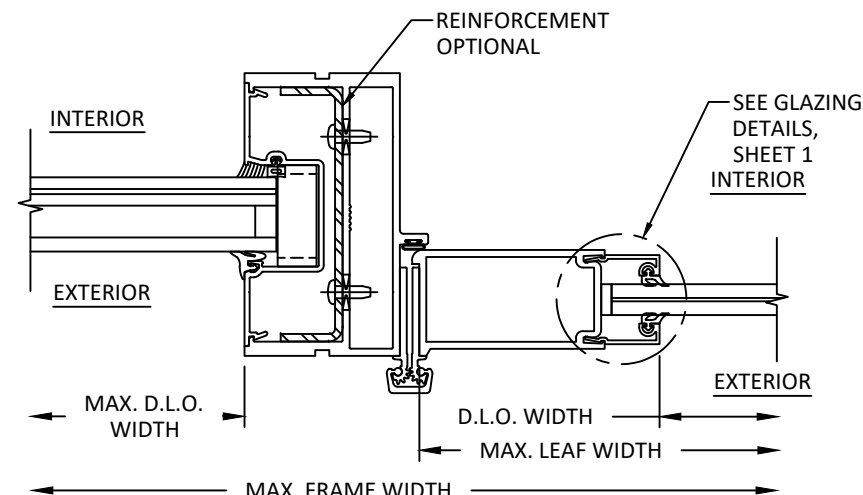
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11 HORIZONTAL SECTION
TYP. JAMB DETAIL
IR521 TRANSOM JAMB AT SIDELITE



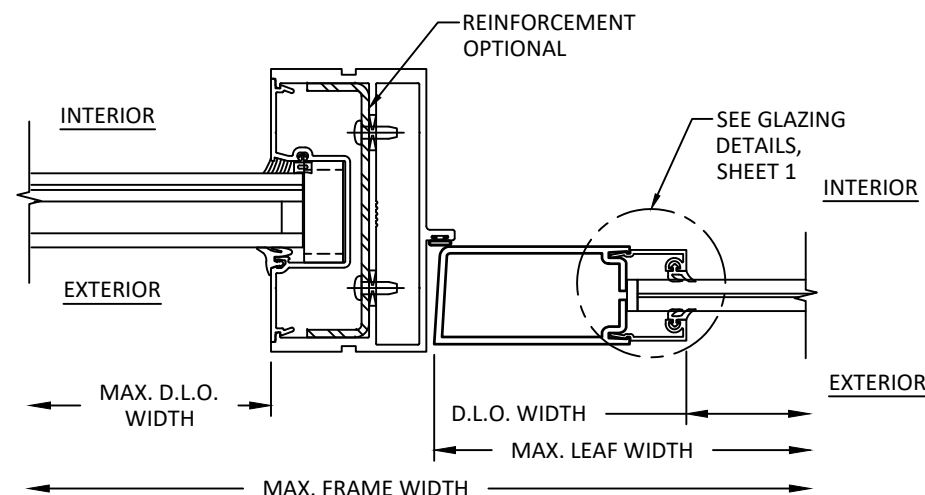
C
11 HORIZONTAL SECTION
TYP. JAMB DETAIL
IR521 LOCK JAMB



D
11 HORIZONTAL SECTION
TYP. JAMB DETAIL
IR521 HINGE JAMB



E
11 HORIZONTAL SECTION
TYP. JAMB DETAIL
IR521 HINGE JAMB AT SIDELITE



F
11 HORIZONTAL SECTION
TYP. JAMB DETAIL
IR521 LOCKING JAMB AT SIDELITE



KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
PH: (770) 449 - 5555

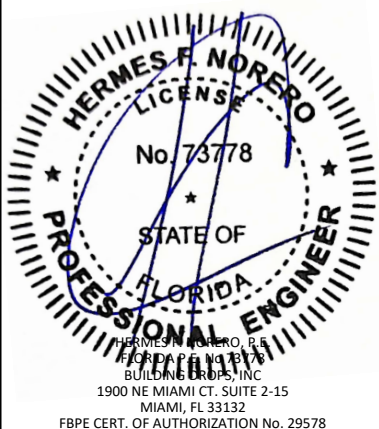
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OUTSWING DOORS
(WZ3)(IMPACT)
HORIZONTAL SECTIONS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT. 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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DATE:	03.11.2025
DWG. BY:	FB
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	KAW045
SHEET:	11

TITLE: 3507/500 IR
OUTSWING DOORS
(WZ3)/(IMPACT)

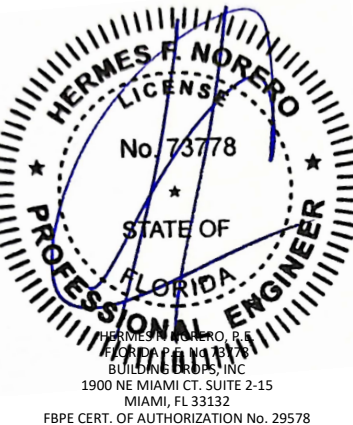
ANCHOR DETAILS

PREPARED BY:

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

REMARKS	BY	DATE

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FL #:
FL47880

DATE: **03.11.2025**

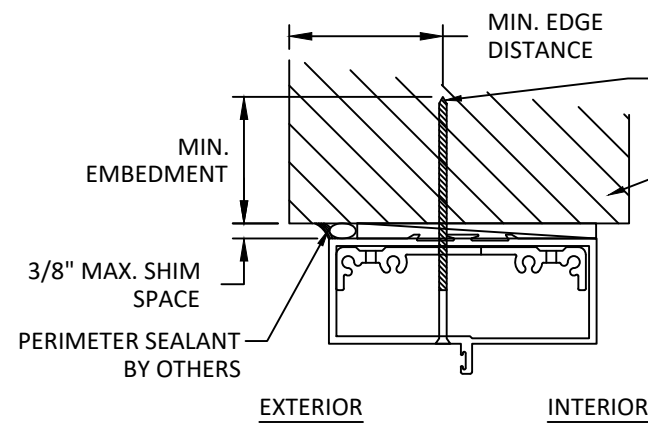
DWG. BY: FB	CHK. BY: HFN
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SCALE: **NTS**

DWG. #: **KAW045**

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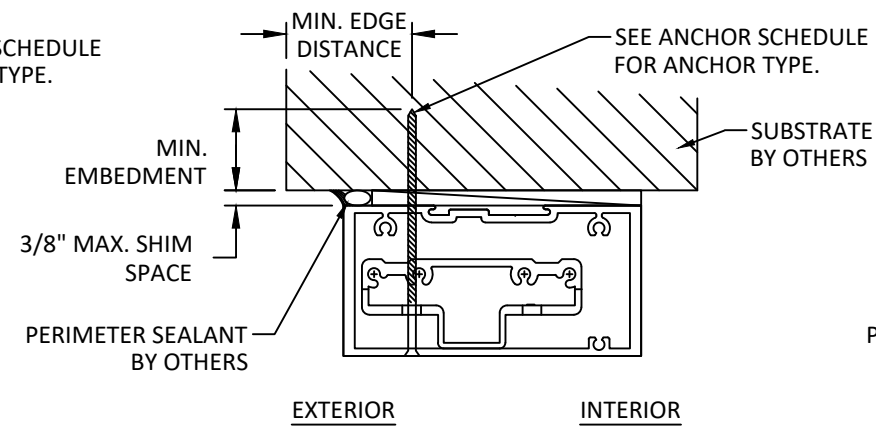
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A
12

VERTICAL SECTION

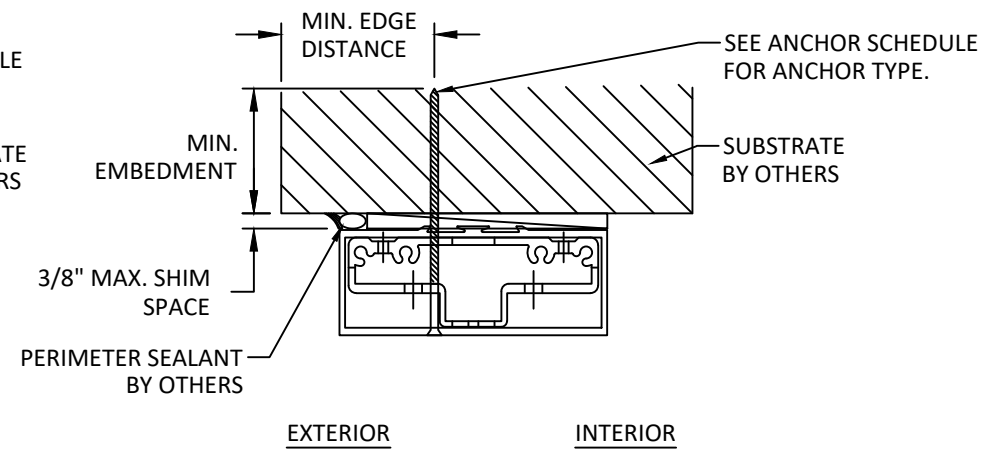
TYP. TRIFAB 450/451 HEAD INSTALLATION
THROUGH FRAME



B
12

VERTICAL SECTION

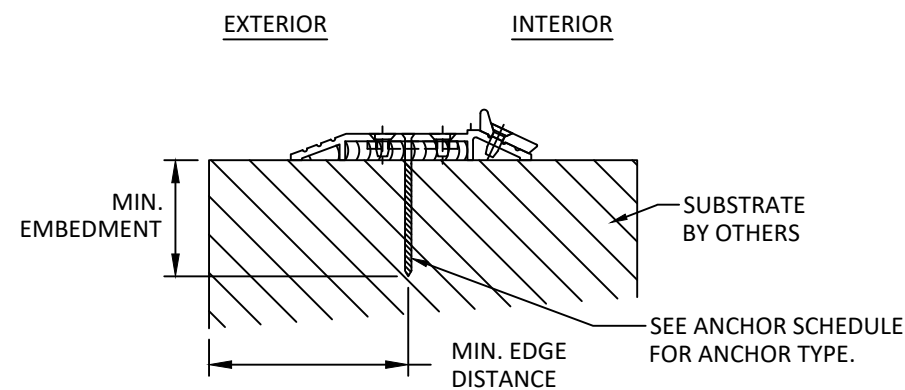
TYP. IR500/501 HEAD INSTALLATION
THROUGH FRAME



C
12

VERTICAL SECTION

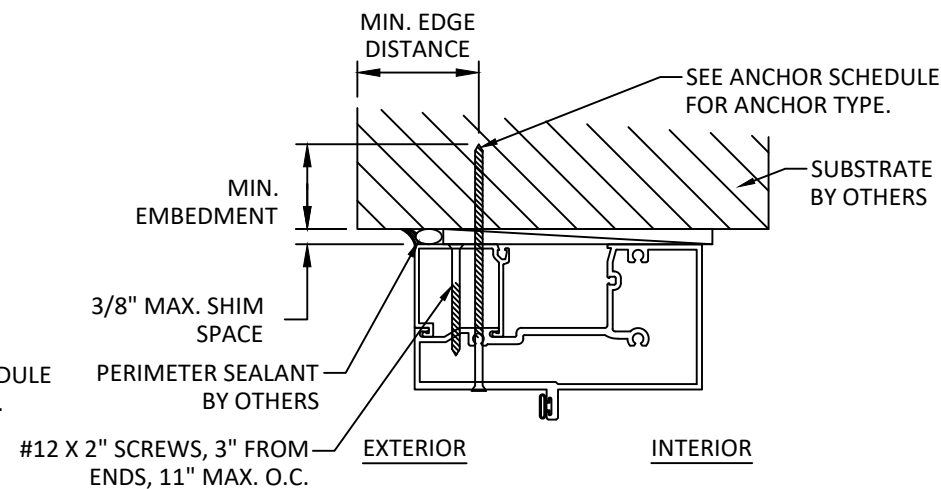
CURTAIN WALL FRAME
THROUGH FRAME



D
12

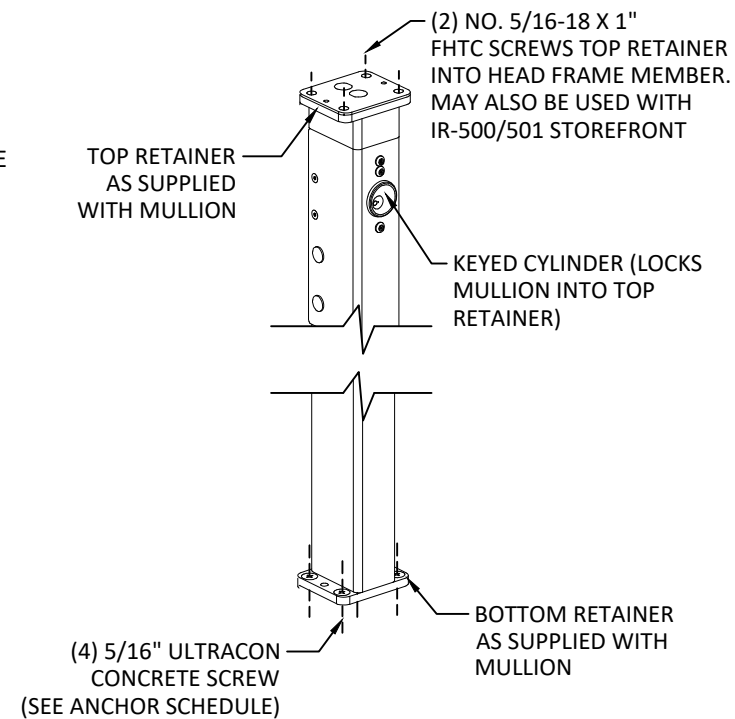
VERTICAL SECTION

TYP. SILL INSTALLATION
THROUGH FRAME



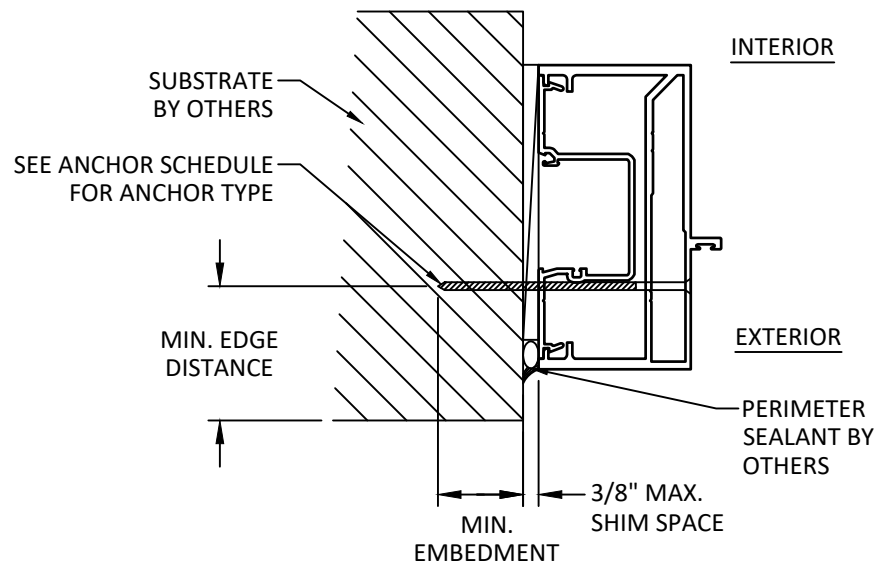
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12

VERTICAL SECTION
TYP. IR500/501 HEAD INSTALLATION
THROUGH FRAME

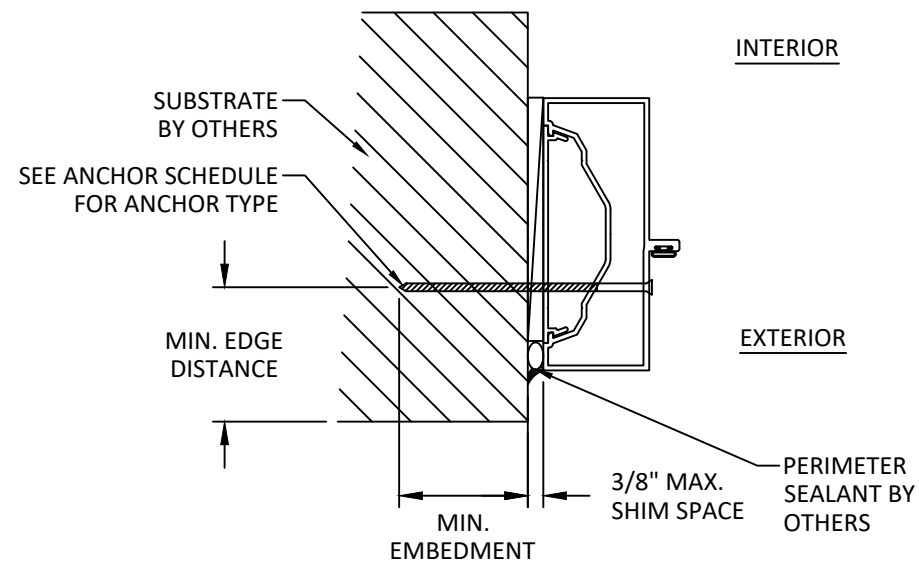


VON DUPRIN
KEYED REMOVABLE MULLION

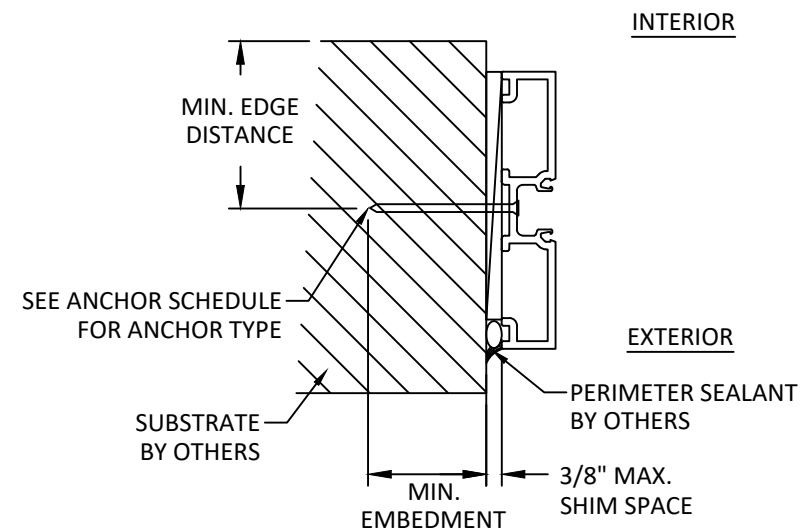
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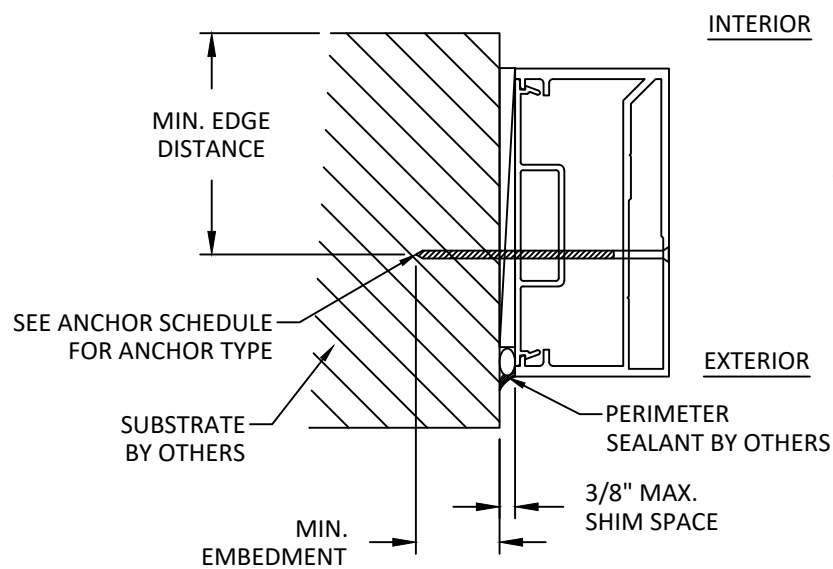
A
13 HORIZONTAL SECTION
TYP. IR500/501 JAMB INSTALLATION
THROUGH FRAME



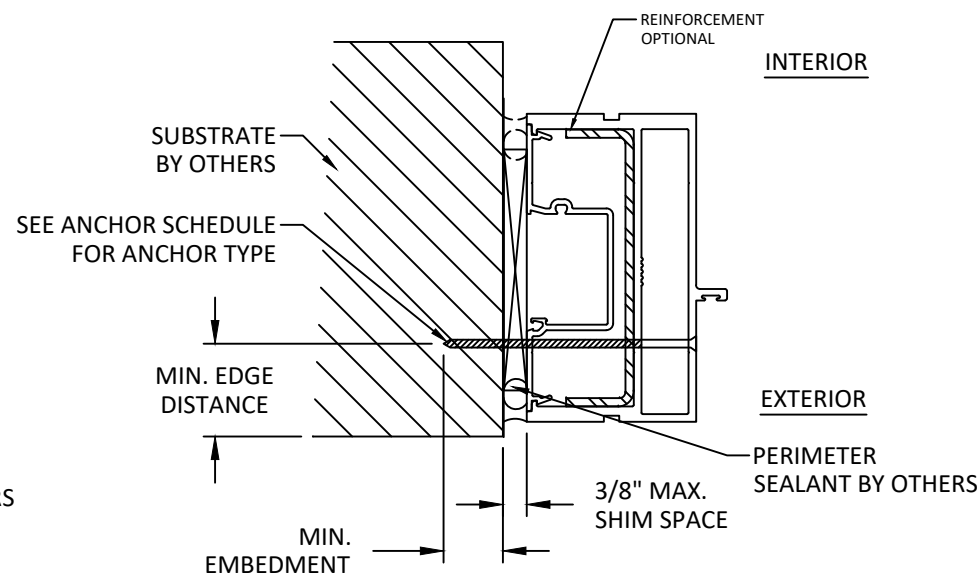
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13 HORIZONTAL SECTION
TYP. TRIFAB 450/451 JAMB INSTALLATION
THROUGH FRAME



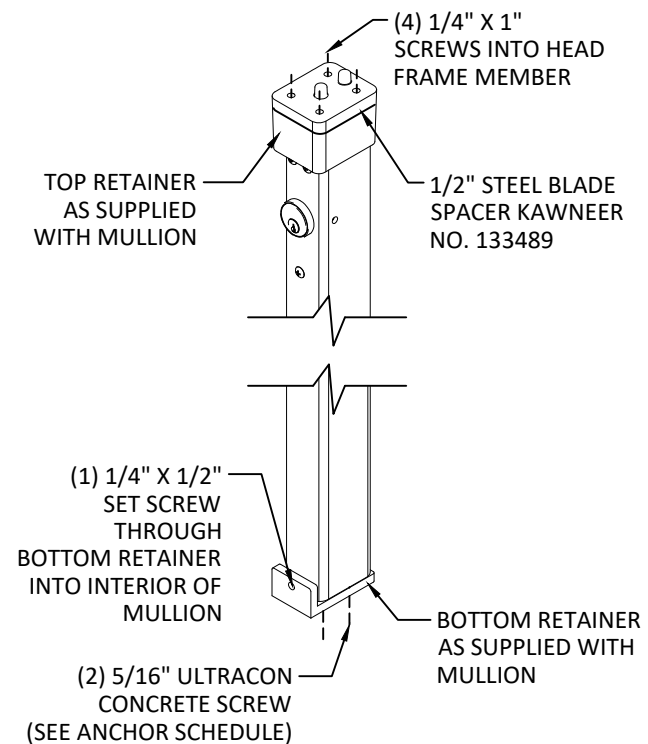
C
13 HORIZONTAL SECTION
CURTAIN WALL JAMB INSTALLATION
THROUGH FRAME



D
13 HORIZONTAL SECTION
TYP. IR500/501 JAMB INSTALLATION
THROUGH FRAME



E
13 HORIZONTAL SECTION
TYP. IR521 JAMB INSTALLATION
THROUGH FRAME



CORBIN RUSSWIN
KEYED REMOVABLE MULLION



KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
PH: (770) 449 - 5555

TITLE: 350/500 IR
OUTSWING DOORS
(WZ3)(IMPACT)

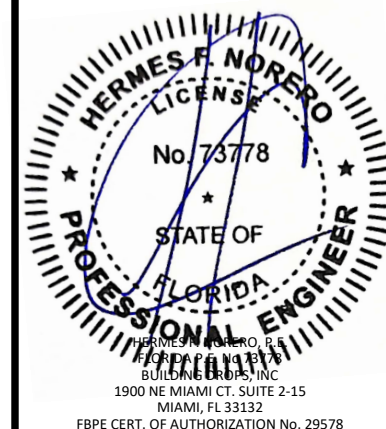
ANCHOR DETAILS

PREPARED BY: BUILDING DROPS, INC.
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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SCALE: NTS

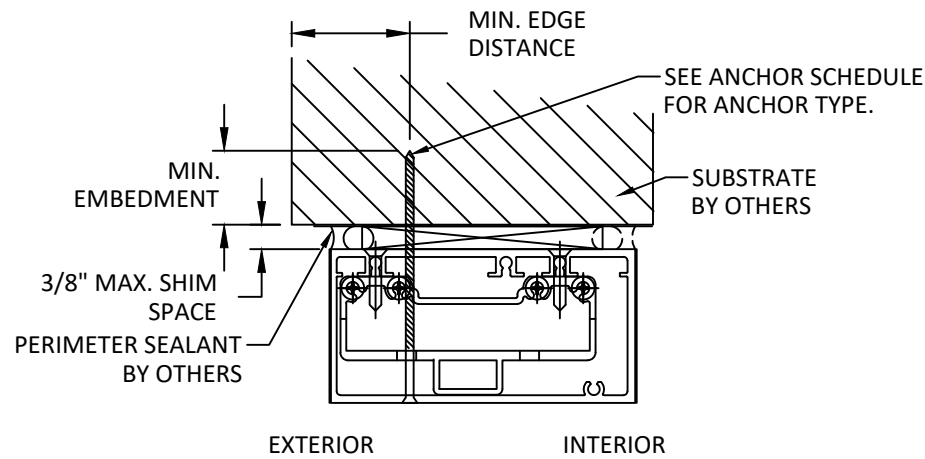
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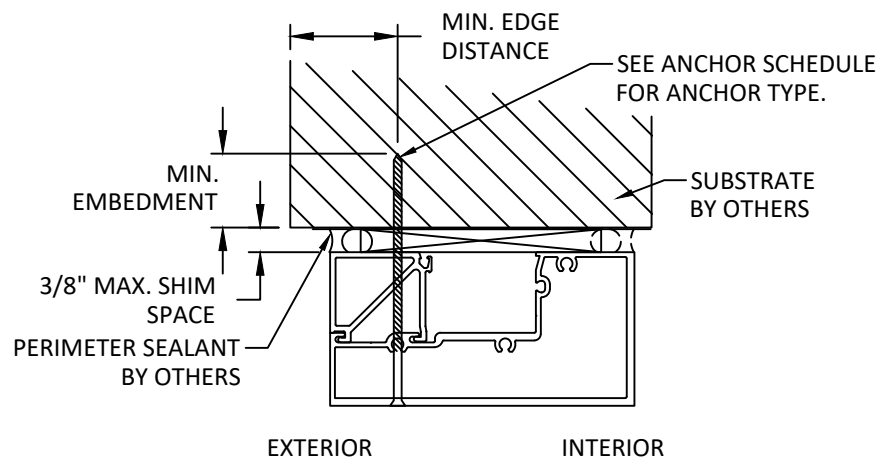
13

OF 17

c:\users\mengqisun\building drops, inc\building drops landing - common\projects\kawneer company\fbcc-24-1041.1 - fbc submittal - aluminum entrance door products\dwgs\kaw045.dwg 10/22/2025 3:29 PM



A
14 **VERTICAL SECTION**
TYP. IR521 COC HEAD INSTALLATION
THROUGH FRAME



B
14 **VERTICAL SECTION**
TYP. IR521 HEAD INSTALLATION
THROUGH FRAME

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ± 1.000 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.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- 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.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.

ANCHOR SCHEDULE				
INST. METHOD	ANCHOR TYPE	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME	NO. 14 WOOD SCREW	WOOD (S.G. = 0.55)	1.25"	0.75"
	1/4" SELF-DRILLING/TAPPING SCREW	MIN. 18 GA. STEEL (33KSI)/ ALUMINUM 1/8" MIN. THK. 6063-T5	THREE (3) THREADS MIN. PENETRATION BEYOND METAL FACE	0.50"
	1/4" ITW TAPCON	CONCRETE: f'c = 3000 PSI	1.50"	2.50"
	1/4" ITW TAPCON	MASONRY : CMU PER ASTM-C90, MIN. 2000 PSI	1.00"	2.50"



KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
PH: (770) 449 - 5555

TITLE: 350/500 IR
OUTSWING DOORS
(WZ3)(IMPACT)

ANCHOR DETAILS, SCHEDULE AND
INSTALLATION NOTES

PREPARED BY:

BUILDING DROPS, INC.

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

PH: (954)399-8478

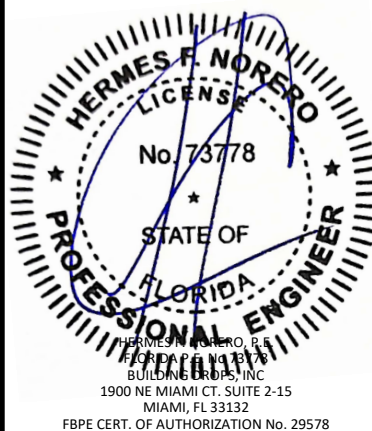
FAX: (954)744-4738

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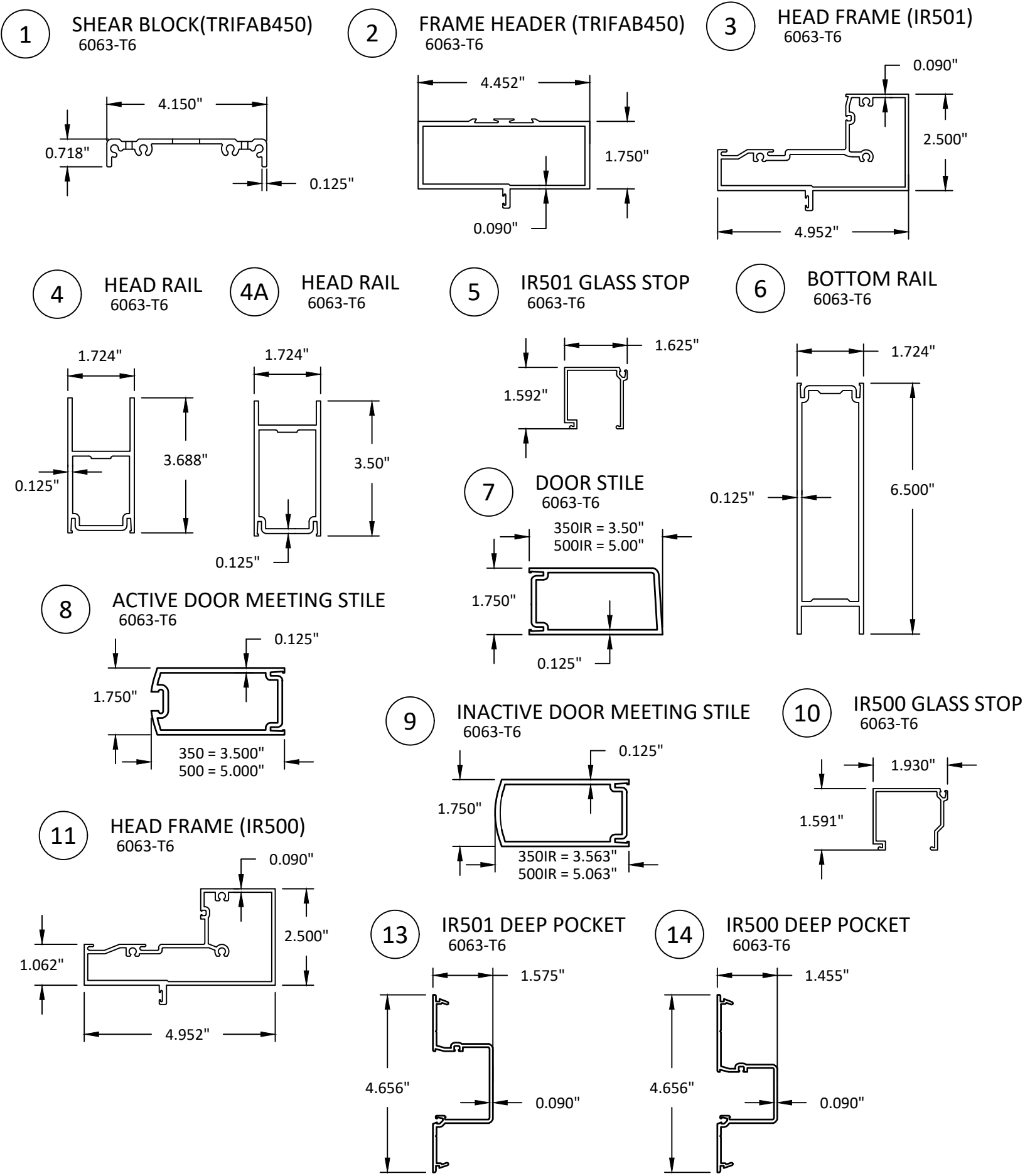
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SHEET:	14
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350/500 IR OUTSWING DOOR - BILL OF MATERIALS			
NO.	DESCRIPTION	MATERIAL	PART NO.
1	SHEAR BLOCK (TRIFAB 450)	6063-T6	450103
2	FRAME HEADER (TRIFAB 450)	6063-T6	450502
3	HEAD FRAME IR501	6063-T6	575122
4	HEAD RAIL	6063-T6	200024
4A	HEAD RAIL	6063-T6	200023
5	IR500 GLASS STOP	6063-T6	575104
6	BOTTOM RAIL	6063-T6	200032
7	DOOR STILE	6063-T6	200005
8	ACTIVE DOOR MEETING STILE	6063-T6	200006
9	INACTIVE DOOR MEETING STILE	6063-T6	200007
10	IR501 GLAZING BEAD	6063-T6	575004
11	HEAD FRAME IR500	6063-T6	575022
13	IR501 DEEP POCKET	6063-T6	575135
14	IR500 DEEP POCKET	6063-T6	575035
15	IR500/IR501 JAMB	6063-T6	575051
16	CURTAIN WALL ADAP.	6063-T6	163036
17	THRESHOLD	6063-T6	069022
18	THRESHOLD	6063-T6	069139
19	INTERIOR GLAZING BEAD	6063-T6	575045
20	EXTERIOR GLAZING BEAD	6063-T6	575043
21	BUTT HINGE	6063-T6	037264
22	PIVOT HINGE	6063-T6	-
23	CONTINUOUS HINGE - 8'	6063-T6	050821
24	MEETING STILE COVER FOR WATER	6063-T6	050042
25	IR500/501 HEAD	6063-T6	575162
26	IR500/501 SHEAR BLOCK FOR COC HEAD	6063-T6	-
27	TRIFAB 450/451 COC HEADER	6063-T6	450079
28	TRIFAB 450/451 2" JAMB	6063-T6	450094
29	MID-RAIL	6063-T6	-
30	CROSS RAIL AND RAIL COVER FOR PANELINE	6063-T6	-
31	TRIFAB 450/451 SHEAR BLOCK	6063-T6	-
32	HEAD JAMB DOORSTOP	6063-T6	041045
33	IR521 DEEP POCKET SNAP	6063-T6	521CG019
34	FASTENER SUPPORT SNAP	6063-T6	575052
35	IR521 JAMB W/ FIN	6063-T6	521CG018
36	IR521 JAMB W/O FIN	6063-T6	521CG318
37	JAMB REINFORCEMENT	STEEL	575310
38	IR521 HEAD W/O FIN	6063-T6	521CG320
39	IR521 HEAD W/ FIN	6063-T6	521CG020
40	IR521 COC HEAD FRAME	6063-T6	521CG079
41	IR521 TRANSOM GLASS STOP	6063-T6	521CG027
41A	IR521 TRANSOM GLASS STOP	6063-T6	521CG022
42	HINGE STILE (CONT.)	6063-T6	200012
43	SNAP IN DOOR STOP	6063-T6	450086
44	DOOR STOP ASSEMBLY	6063-T6	069177
45	IR521 GLASS STOP	6063-T6	521CG404





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350/500 IR
OUTSWING DOORS
(WZ3)(IMPACT)

BILL OF MATERIALS AND COMPONENTS

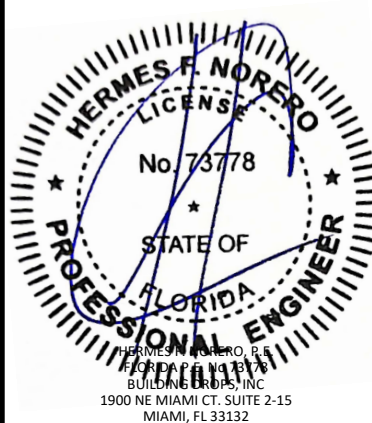
PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
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HERMES F. NORERO

LICENSE

No. 73778

STATE OF FLORIDA

PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL47880

DATE:

03.11.2025

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FB

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

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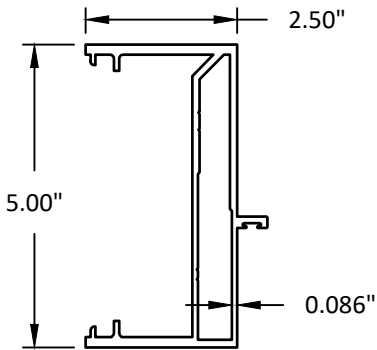
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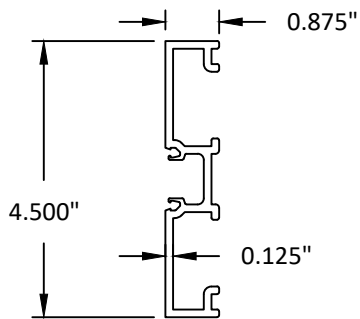
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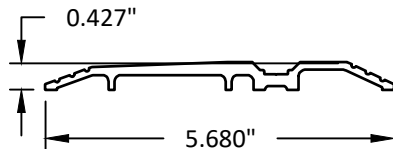
15 IR500/501 JAMB
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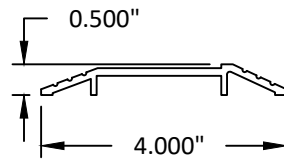
16 CURTAIN WALL ADAP.
6063-T6



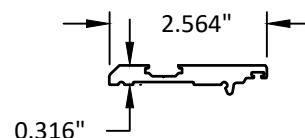
17 THRESHOLD- WATER RATED
6063-T6



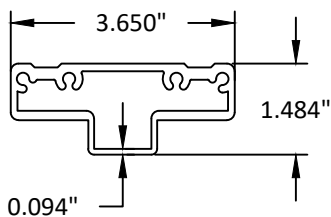
18 THRESHOLD
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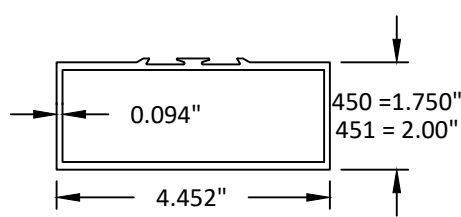
24 MEETING STILE COVER FOR WATER
6063-T6



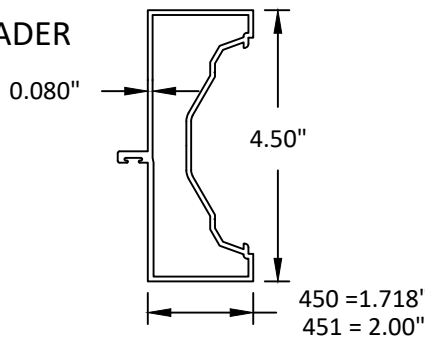
26 SHEAR BLOCK (IR500/501)
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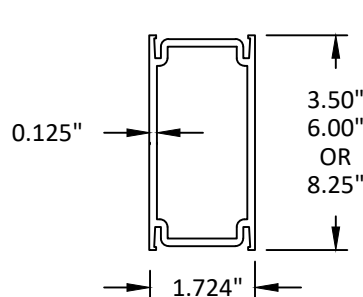
27 TRIFAB 450/451 COC HEADER
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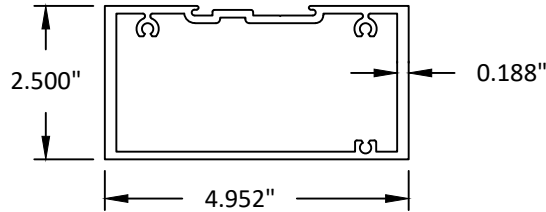
28 TRIFAB 450/451 JAMB
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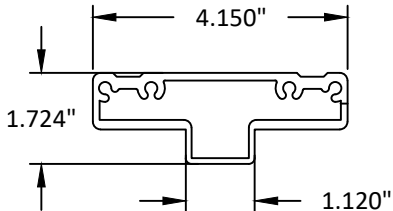
29 MID-RAIL
6063-T6



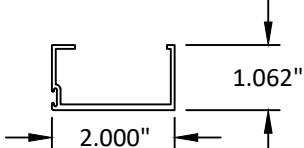
25 IR500/IR501 HEAD
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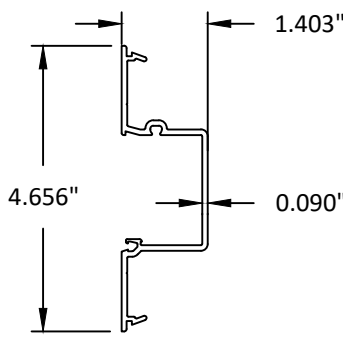
31 SHEAR BLOCK (TRIFAB 450/451)
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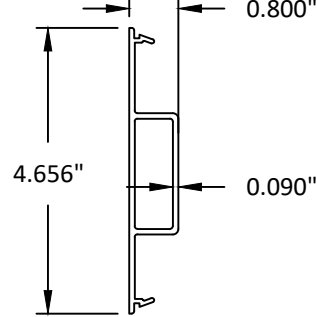
32 HEAD JAMB DOOR STOP
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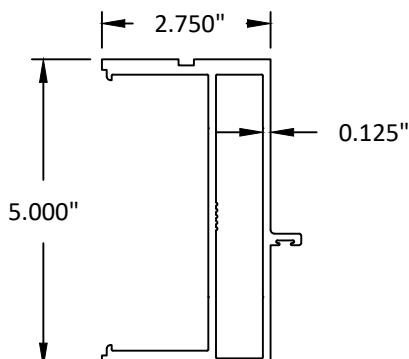
33 IR521 DEEP POCKET SNAP
6063-T6



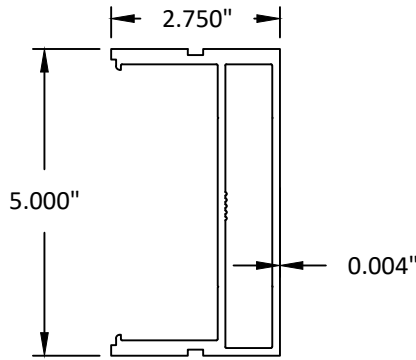
34 FASTENER SUPPORT SNAP
6063-T6



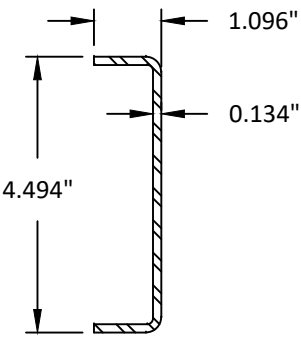
35 IR521 JAMB W/ FIN
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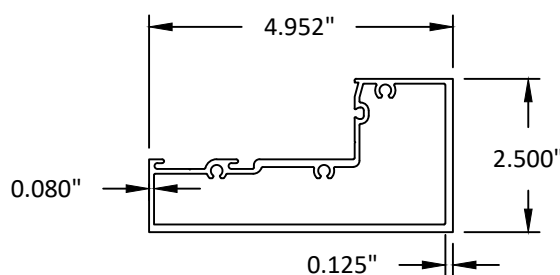
36 IR521 JAMB W/O FIN
6063-T6



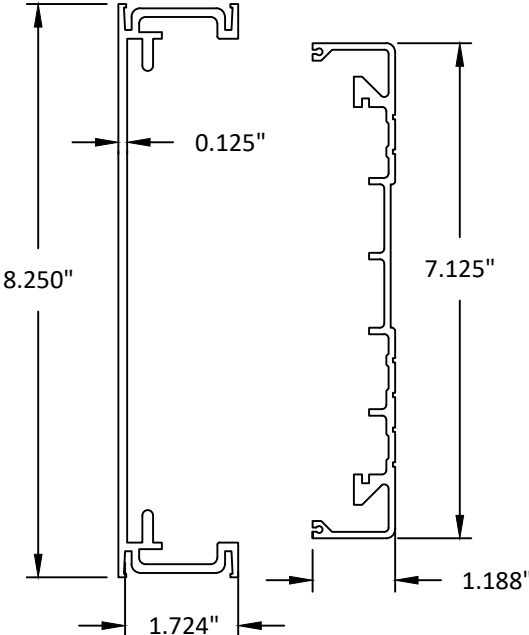
37 JAMB REINFORCEMENT
STEEL



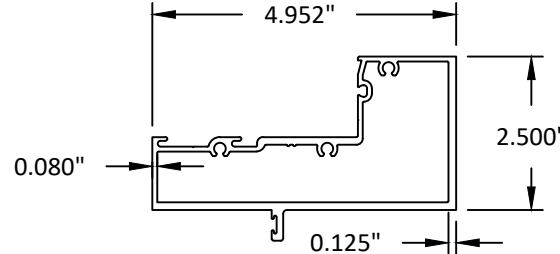
38 IR521 HEAD W/O FIN
6063-T6



30 CROSS RAIL/RAIL COVER
6063-T6



39 IR521 HEAD W/ FIN
6063-T6



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555 GUTHRIDGE COURT
NORCROSS, GA 30092
PH: (770) 449 - 5555

TITLE: 350/500 IR
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COMPONENTS

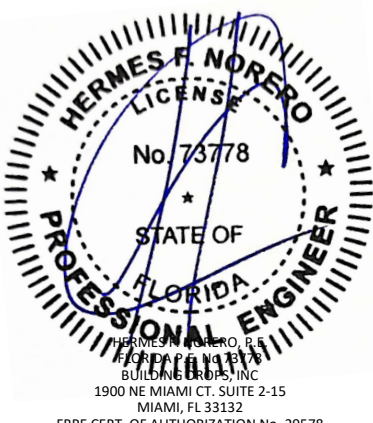
PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
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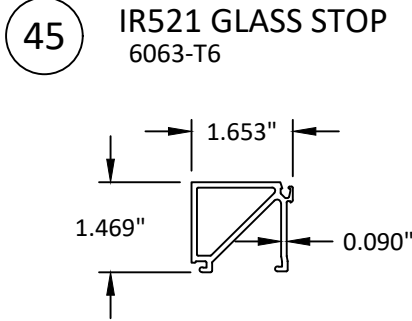
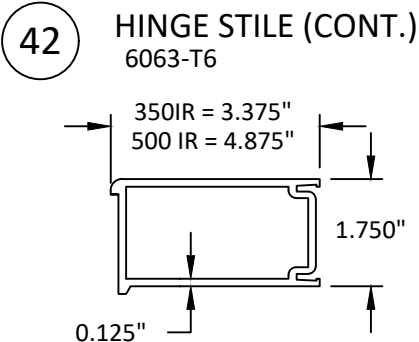
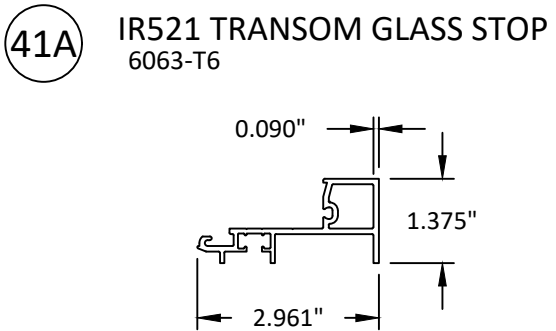
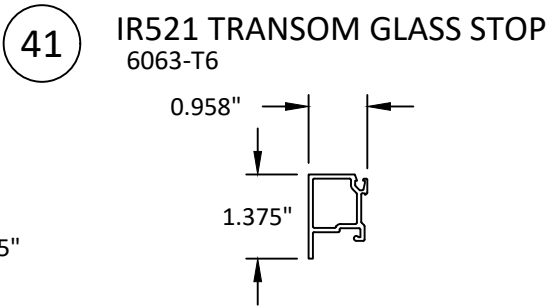
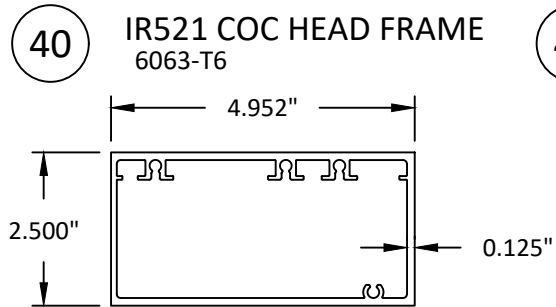
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350/500 IR OUTSWING DOOR - BILL OF MATERIALS			
NO.	DESCRIPTION	MATERIAL	PART NO.
46	DOOR BULB WEATHERING	ALCRYN	027078
47	210 PILE WEATHERSTRIP	PVC	027474
48	DOOR GLAZING GASKET (MONOLITHIC GLASS)	TREMCO TR-135S/E, EPDM, DUROMETER 70 ±5	027553
49	DOOR GLAZING GASKET (I.G. GLASS)	KRP 027-557, POLYPROPYLENE & SANTOPRENE, DUROMETER 65 ±5	027557
50	GLAZING TAPE / SILICONE SPACER	SEMI-RIGID POLYURETHANE FOAM	127041
51	DOOR SETTING BLOCK (MONOLITHIC GLASS)	NEOPRENE	027549
52	DOOR SETTING BLOCK (I.G. GLASS)	NEOPRENE	027559
53	DOOR BOTTOM RAIL WEATHER SWEEP	VARIED	200795
54	ADJUSTABLE ASTRAGAL WEATHERING	VARIED	200497
55	COMPRESSION TAPE	3M	-
56	PANIC DEVICE STRIKE SPACER	ALUMINUM; USED W/ LOCK ITEM #54	133399
57	ACTIVE DOOR LOCK ASSEMBLY	ADAMS-RITE 1850 3-POINT LOCK SYSTEM W/ KAWNEER CYLINDER, THUMBTURN & PUSH PACKAGE	-50
58	INACTIVE DOOR TOP FLUSH BOLT	ADAMS-RITE 1850 FLUSH	-50
59	NO. 12 X 2" SCREW – 3" FROM ENDS & MAX. 11" O.C.		
60	NO. 12-24 X 9/16" S.S SCREW – 8 PER HINGE		
61	NO. 12-24 X 13/32" SCREW – 2 PER HINGE		
62	5/16"-18 X 5/8" SCREW – 52 MAX. PER HINGE		
63	NO. 12-24 X 9/16" S.S SCREW – 2 PER TOP PIVOT HINGE		
64	1/4-20 X 3/8" SCREW – 3 PER INTERMEDIATE PIVOT HINGE		
65	NO. 6 X 11/16" SCREW – 10 PER LEAF		
66	NO. 10 X 9/16" S.S SCREW – 2 PER CLIP		
67	NO. 10 X 19/32" S.S SCREW – 4 PER CLIP		
68	NO. 10 X 1/2" S.S SCREW – 3" FROM ENDS & MAX. 7½" O.C. AT TOP & BOTTOM RAILS; 3" FROM ENDS & MAX. 1½" O.C. AT STILES		
69	NO. 6 X ¾" S.S SCREW – 1¼" FROM ENDS & MAX. 9 17/32" O.C.		
70	NO. 10 X 1½" FHTF "B" SCREW – 1" FROM ENDS & MAX. 16" O.C.		



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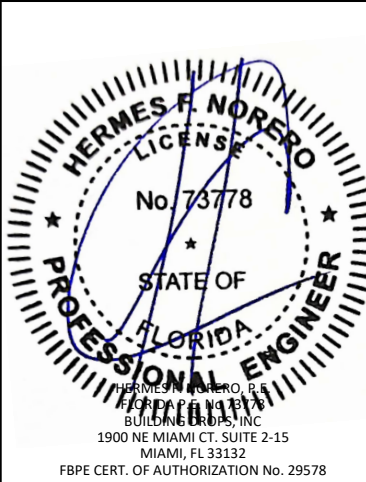
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