

s:\projects\tubelite, inc\tbc-21-1213 - fbc submittal - revisions - fl29239.dwg - fl29239.dwg - fl29239 - terraporte 7600.tl003 - 2021-12-15.dwg 12/16/2021 10:49 AM

TUBELITE, INC.

TERRAPORTE 7600 SERIES INSWING & OUTSWING DOORS (NON-HVHZ) (NON-IMPACT)

GENERAL NOTES:

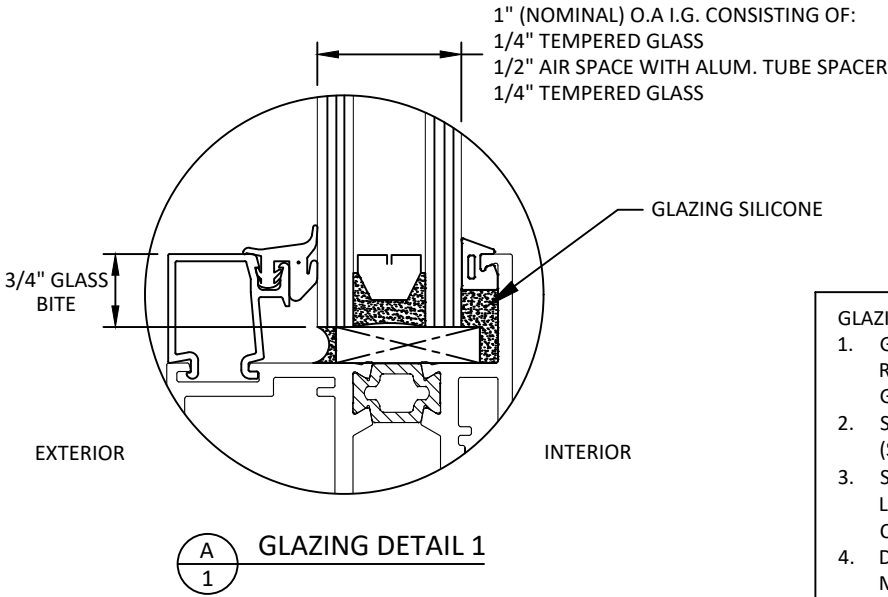
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/I.S.2/A440-08/11
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD FRAMING 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. DOOR MATERIAL: ALUMINUM 6063-T5 MIN.
7. DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM COMPONENTS SHALL BE PROTECTED IN ACCORDANCE WITH THE FBC.
8. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:

X: OPERABLE PANEL

O: FIXED PANEL
9. ALL CONFIGURATIONS MEET AW WATER INFILTRATION REQUIREMENTS.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL NOTES, TABLE OF CONTENTS & GLAZING DETAIL
2	ELEVATIONS, ANCHORS LAYOUT & DESIGN PRESSURE TABLES
3	ELEVATIONS, ANCHORS LAYOUT & DESIGN PRESSURE TABLE
4	VERTICAL SECTIONS
5	HORIZONTAL SECTIONS
6	OUTSWING DOOR CONNECTION DETAILS
7	INSWING DOOR CONNECTION DETAILS
8	HARDWARE DETAILS AND CORNER CONSTRUCTION
9	ANCHOR DETAILS, SCHEDULE & INSTALLATION NOTES

MISSILE IMPACT RATING	DESIGN PRESSURE
NON-IMPACT RATED	SEE SHEETS 2 AND 3 FOR DESIGN PRESSURES



- GLAZING NOTES:
1. GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC.
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" PER FBC CHAPTER 24.
4. D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN SIZE CHARTS ON SHEETS 2 AND 3.



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

TITLE: TERRAPORTE 7600 SERIES
INSWING & OUTSWING DOOR
(NON-HVHZ) (NON-IMPACT)
GENERAL NOTES, TABLE OF
CONTENTS & GLAZING DETAIL

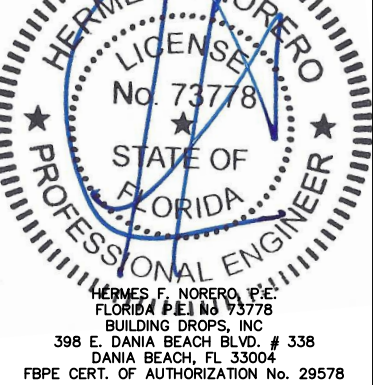
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BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
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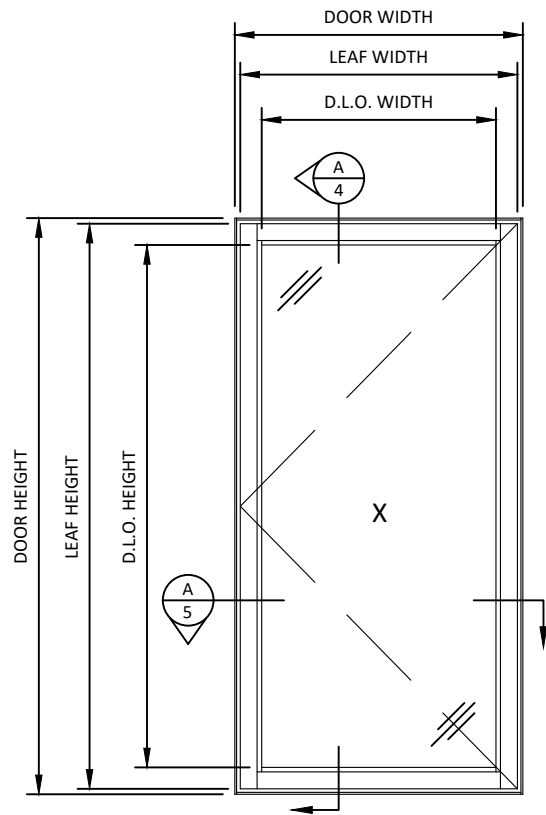
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Reason: I am approving this document
Date: 2021.12.15 17:10:56 -0500



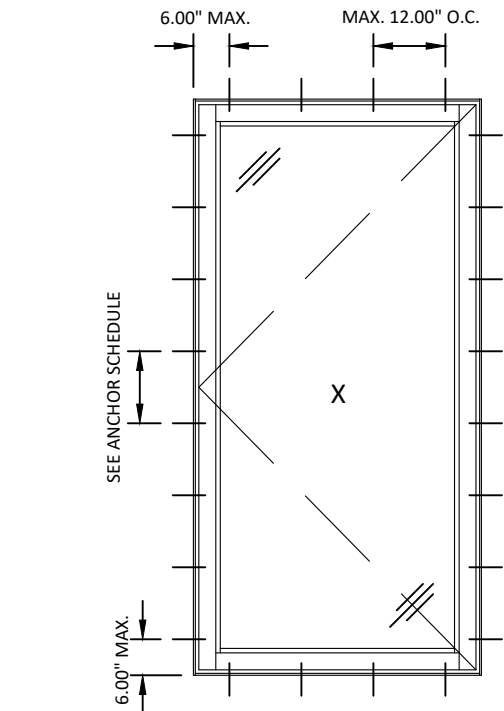
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SECTION	1

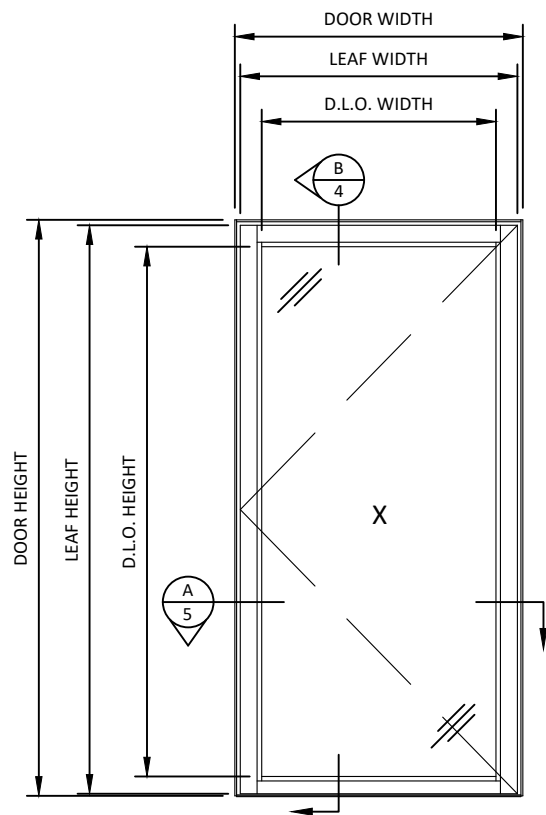
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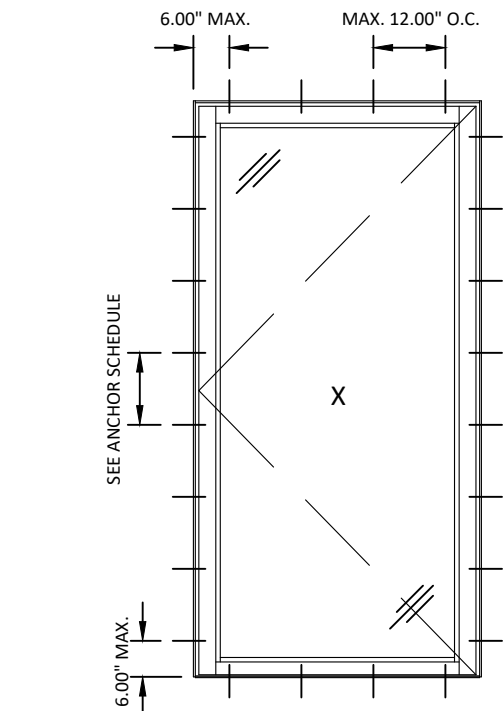
A
2 SINGLE DOOR ELEVATION
OUTSWING - STANDARD SILL



B
2 SINGLE DOOR - ANCHOR LAYOUT
OUTSWING - STANDARD SILL



C
2 SINGLE DOOR ELEVATION
OUTSWING - accessABLE SILL



D
2 SINGLE DOOR - ANCHOR LAYOUT
OUTSWING - accessABLE SILL

D.L.O. WIDTH = FRAME WIDTH - 2 X 4.48"
STANDARD SILL
D.L.O. HEIGHT = FRAME HEIGHT - 2 X 4.48"
accessABLE SILL
D.L.O. HEIGHT = FRAME HEIGHT - 3.38" - 4.48"
LEAF WIDTH = FRAME WIDTH - 2 X 0.908"
STANDARD SILL
LEAF HEIGHT = FRAME HEIGHT - 2 X 0.908"
accessABLE SILL
LEAF HEIGHT = FRAME HEIGHT - 0.363" - 0.908"

TERRAPORTE 7600 TERRACE DOOR DESIGN PRESSURE TABLE (PSF)						
OUTSWING		FRAME WIDTH (INCHES)				
		30	36	42	48	54
FRAME HEIGHT (INCHES)	84	70.0	70.0	70.0	70.0	62.2
	90	70.0	70.0	70.0	70.0	-
	96	70.0	70.0	70.0	70.0	-
	102	70.0	70.0	64.5	-	-
	108	70.0	61.9	53.9	-	-
	114	62.1	52.4	-	-	-
	120	53.1	44.7	-	-	-

ANCHOR SCHEDULE - OUTSWING		
TYPE	ANCHOR	JAMB O.C. SPACING
A	1/4" ELCO ULTRACON (CARBON STEEL)	21"
B	1/4" ITW TAPCON (CARBON OR STAINLESS STEEL)	14"
C	1/4" HILTI KWIK-CON II+ (CARBON OR STAINLESS STEEL)	16.875"
D	#12 WOOD SCREW	12"
E	#14 WOOD SCREW	14"
F	#12 GR. 5 SELF-TAPPING/DRILLING SCREW	12"
G	1/4" GR. 5 SELF-TAPPING/DRILLING SCREW	16.875"
H	3/8" POWERS TAPPER (CARBON STEEL)	21"
I	3/8" POWERS TAPPER (CARBON STEEL)	21"
J	3/8" ITW LDT (CARBON STEEL)	21"
K	3/8" ITW LDT (CARBON STEEL)	21"
L	3/8" ITW TRUBOLT WEDGE (CARBON STEEL OR SS)	21"
M	3/8" LAG SCREW	12"
N	5/16" GR. 5 SELF-TAPPING/DRILLING SCREW	21"

TUBELITE
DEPENDABLE
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CURTAINWALL AND ENTRANCE SYSTEMS

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OUTSWING ELEVATIONS,
ANCHOR LAYOUTS
& DESIGN PRESSURE TABLES

PREPARED BY:

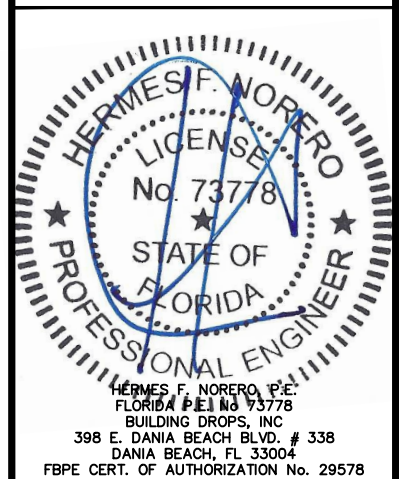
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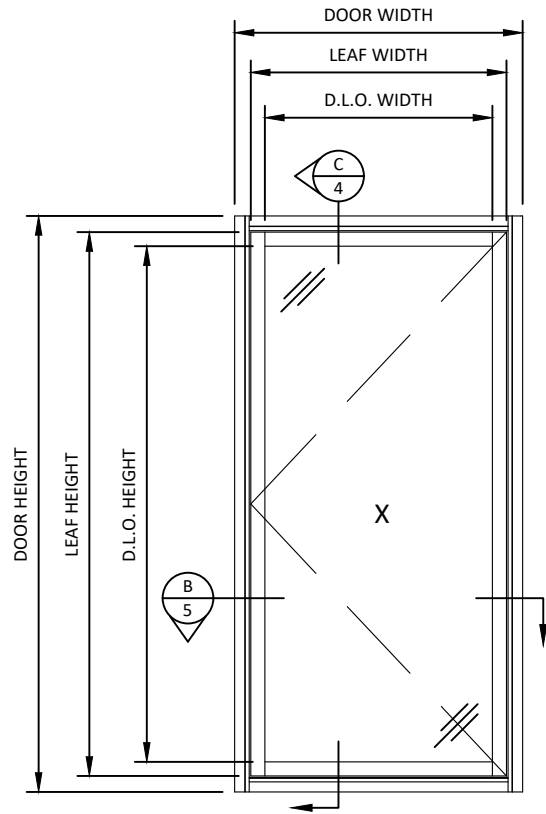
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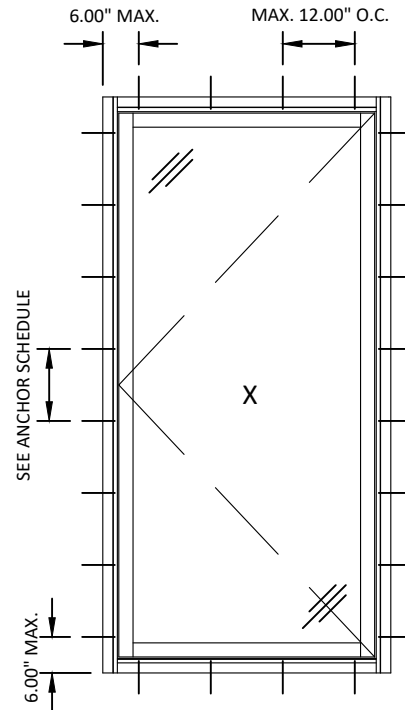


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A
3 SINGLE DOOR ELEVATION
INSWING - STANDARD SILL



B
3 SINGLE DOOR - ANCHOR LAYOUT
INSWING - STANDARD SILL

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INSWING		FRAME WIDTH (INCHES)				
		30	36	42	48	54
FRAME HEIGHT (INCHES)	84	70.0	70.0	70.0	70.0	62.2
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	102	70.0	70.0	64.5	-	-
	108	70.0	61.9	53.9	-	-
	114	62.1	52.4	-	-	-
	120	53.1	44.7	-	-	-

D.L.O. WIDTH = FRAME WIDTH - 2 X 5.04"
D.L.O. HEIGHT = FRAME HEIGHT - 2 X 5.04"
LEAF WIDTH = FRAME WIDTH - 2 X 2.68"
LEAF HEIGHT = FRAME HEIGHT - 2 X 2.68"

ANCHOR SCHEDULE - INSWING		
ANCHORED THROUGH EXTERIOR TRACK DIRECTLY TO BUILDING STRUCTURE		
TYPE	ANCHOR	JAMB O.C. SPACING
A	1/4" ELCO ULTRACON (CARBON STEEL)	16.875"
B	1/4" ITW TAPCON (CARBON OR STAINLESS STEEL)	12"
C	1/4" HILTI KWIK-CON II+ (CARBON OR STAINLESS STEEL)	14"
D	#12 WOOD SCREW	8.5"
E	#14 WOOD SCREW	9.375"
F	#12 GR. 5 SELF-TAPPING/DRILLING SCREW	7.6875"
G	1/4" GR. 5 SELF-TAPPING/DRILLING SCREW	12"
H	3/8" POWERS TAPPER (CARBON STEEL)	21"
I	3/8" POWERS TAPPER (CARBON STEEL)	21"
J	3/8" ITW LDT (CARBON STEEL)	21"
K	3/8" ITW LDT (CARBON STEEL)	21"
L	3/8" ITW TRUBOLT WEDGE (CARBON STEEL OR SS)	21"
M	3/8" LAG SCREW	7.6875"
N	5/16" GR. 5 SELF-TAPPING/DRILLING SCREW	21"

ANCHOR SCHEDULE - INSWING		
ANCHORED THROUGH INTERIOR TRACK TO CURTAIN WALL, RIBBON WINDOW, OR STOREFRONT		
TYPE	ANCHOR	JAMB O.C. SPACING
F	#12 GR. 5 SELF-TAPPING/DRILLING SCREW	5.25"
G	1/4" GR. 5 SELF-TAPPING/DRILLING SCREW	8.5"
N	5/16" GR. 5 SELF-TAPPING/DRILLING SCREW	16.875"

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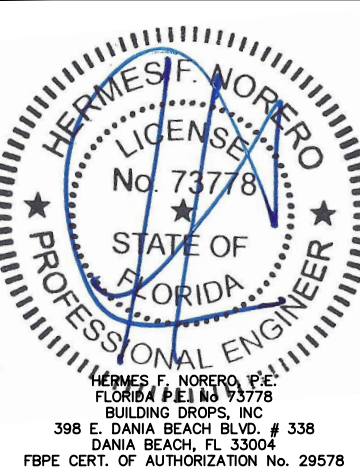
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INSWING ELEVATIONS,
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& DESIGN PRESSURE TABLE

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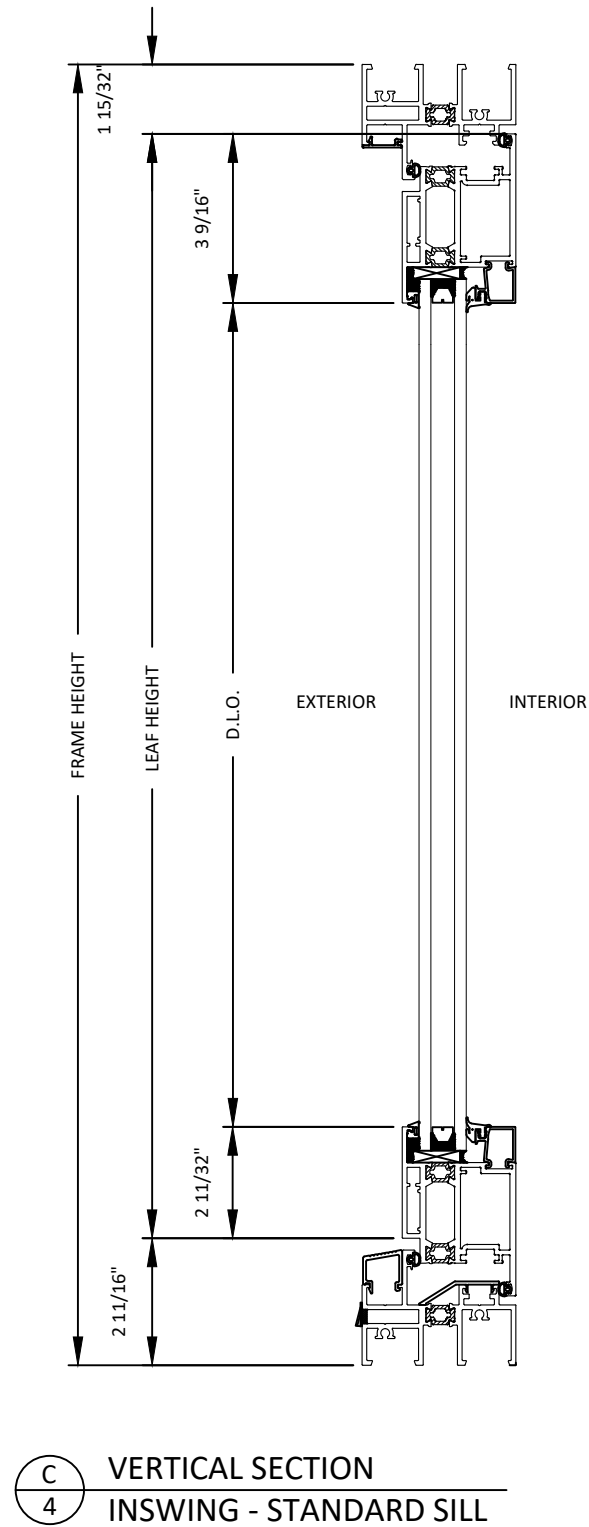
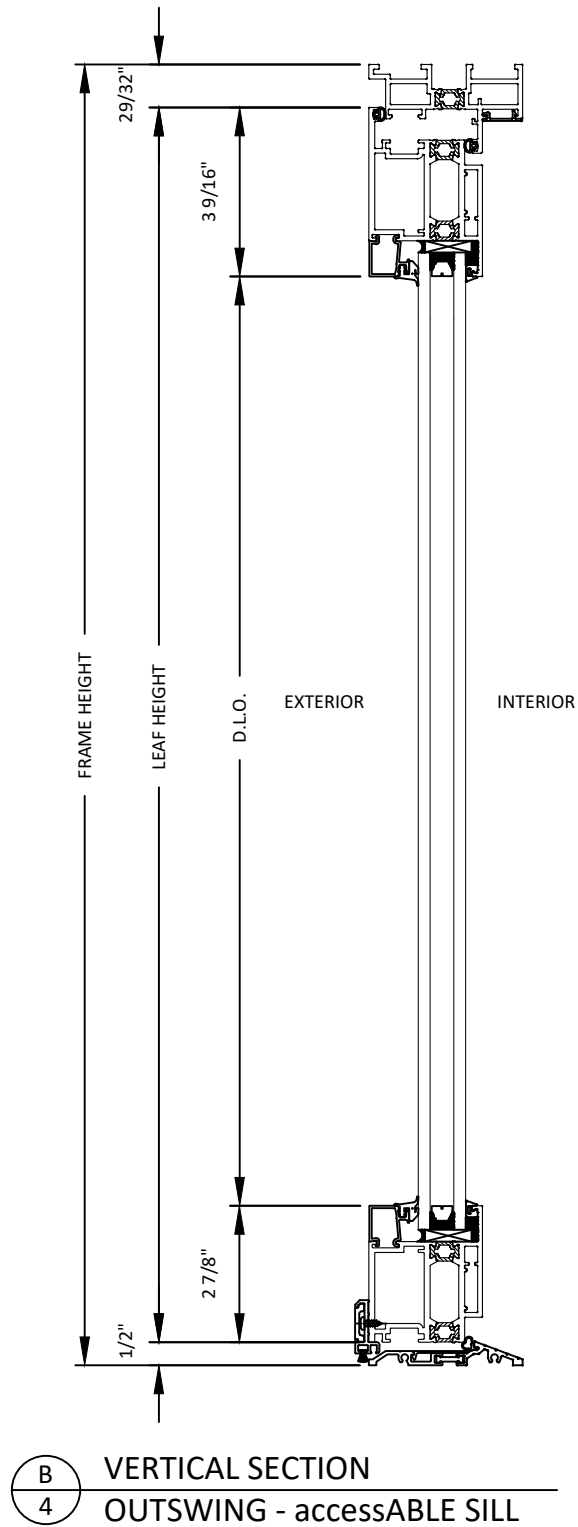
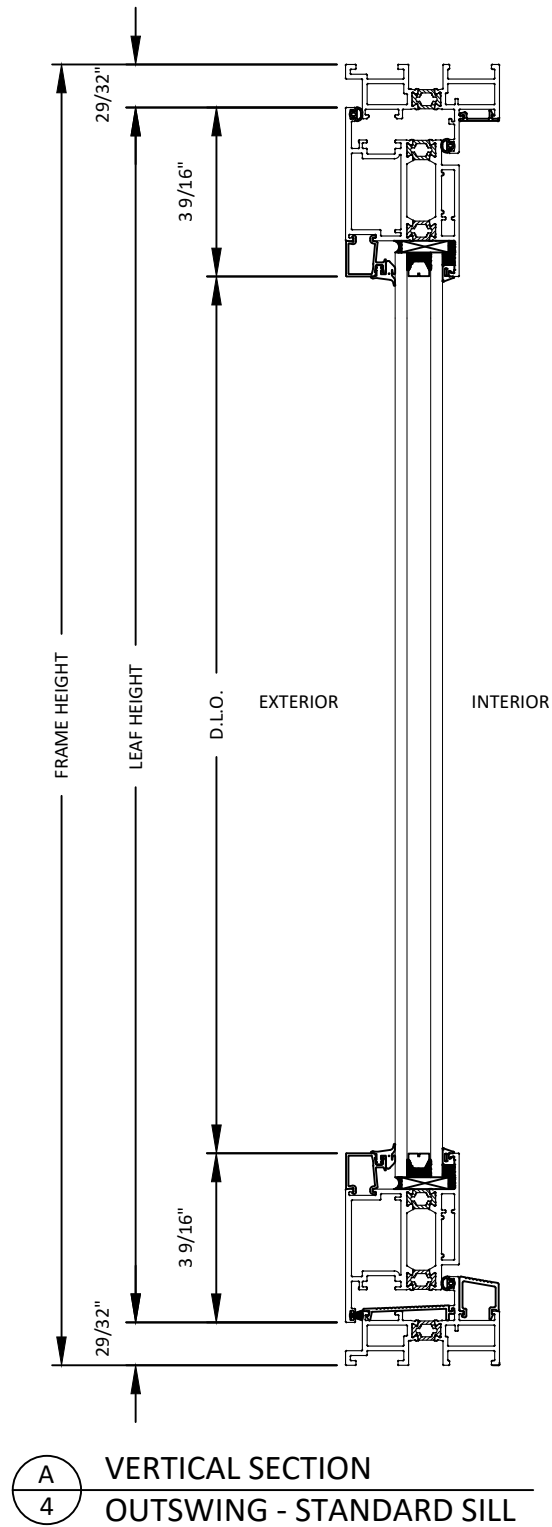
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SCALE: **NTS**

DWG. #: **TLI003**

SECTION
3

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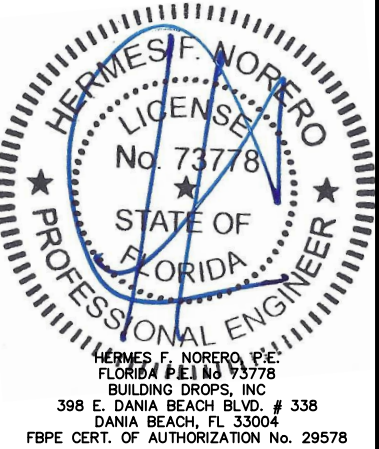
VERTICAL SECTIONS

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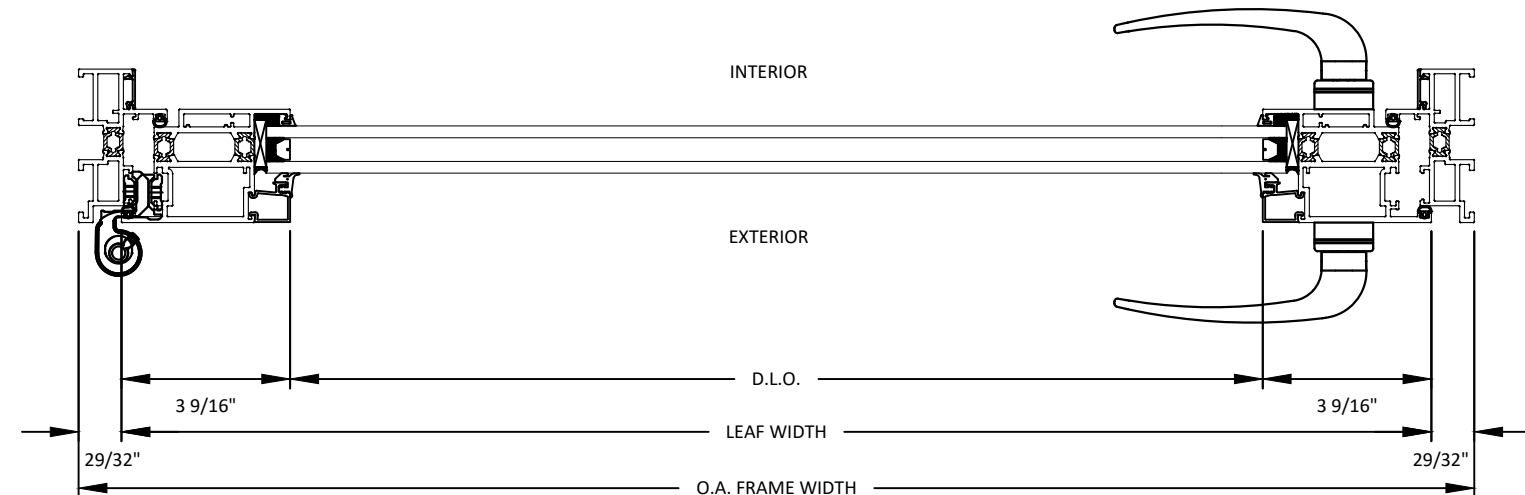


HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

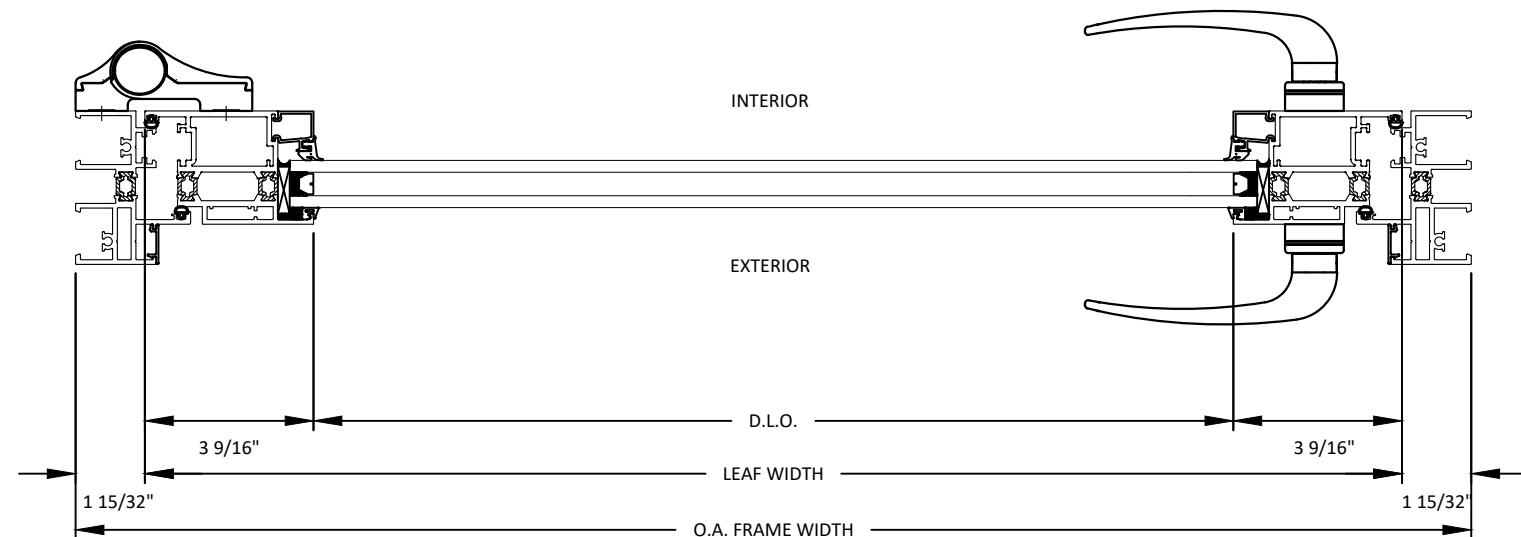
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FBPE CERT. OF AUTHORIZATION No. 29578

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A
5 HORIZONTAL SECTION
OUTSWING DOOR



B
5 HORIZONTAL SECTION
INSWING DOOR

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HORIZONTAL SECTIONS

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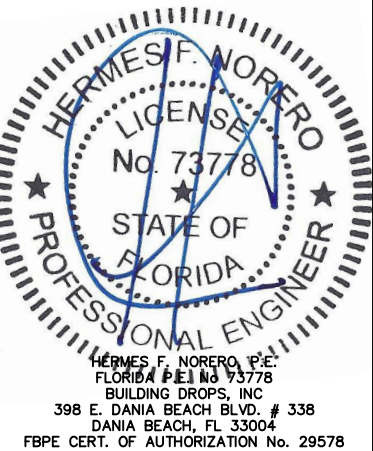
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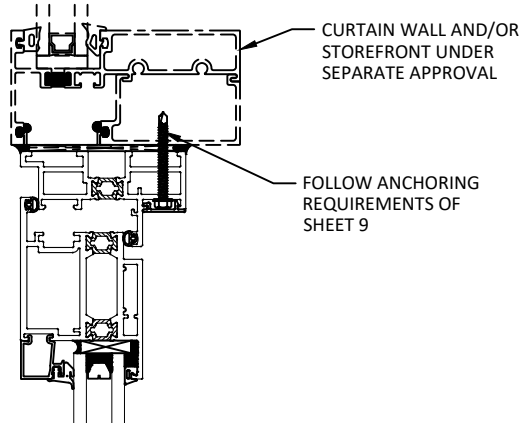
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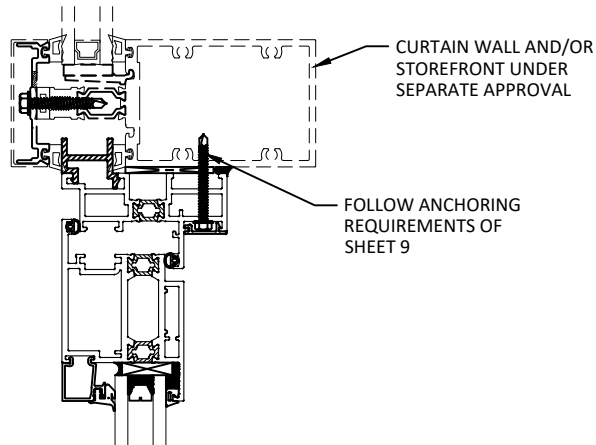
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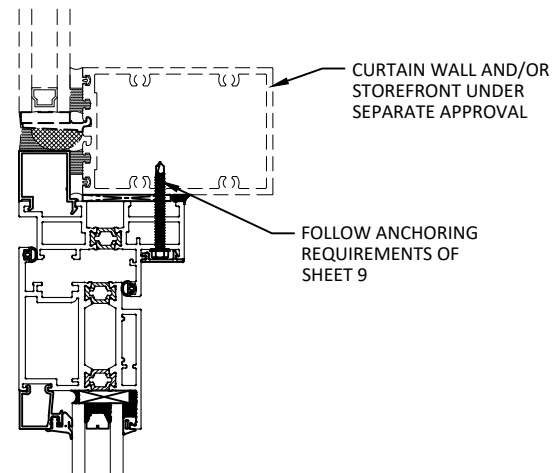
TYPICAL CONNECTION DETAILS
OUTSWING DOOR TO CURTAIN WALL OR STOREFRONT
FRAMING UNDER SEPARATE APPROVAL



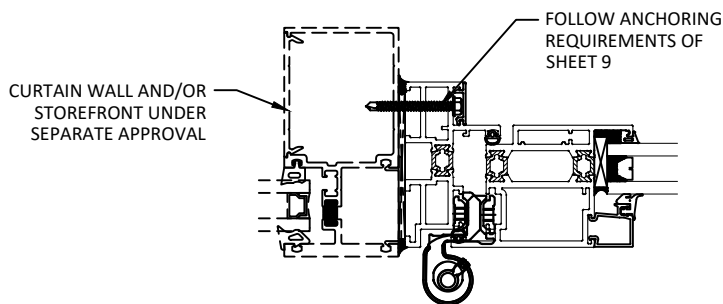
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6 VERTICAL SECTION
OUTSWING - STANDARD HEAD FLAT



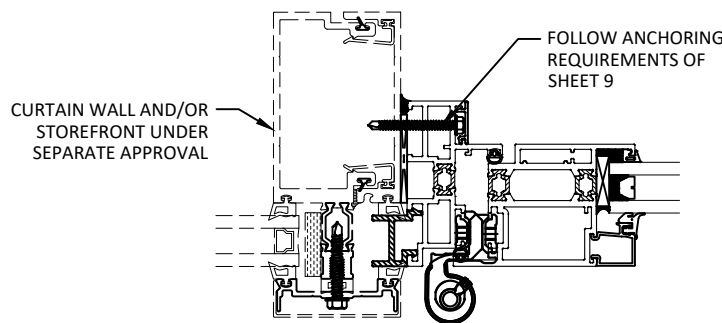
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6 VERTICAL SECTION
OUTSWING - OPTIONAL HEAD CAPTURE



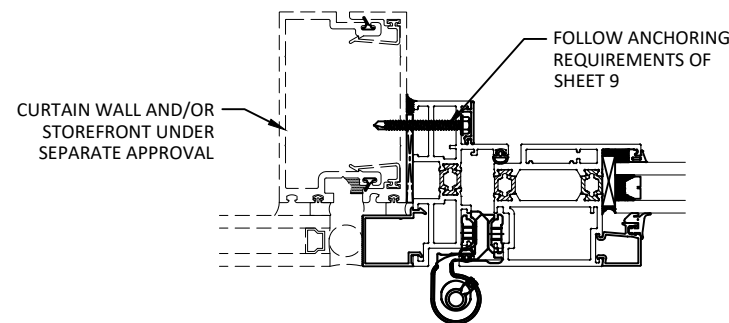
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6 VERTICAL SECTION
OUTSWING - OPTIONAL HEAD SSG



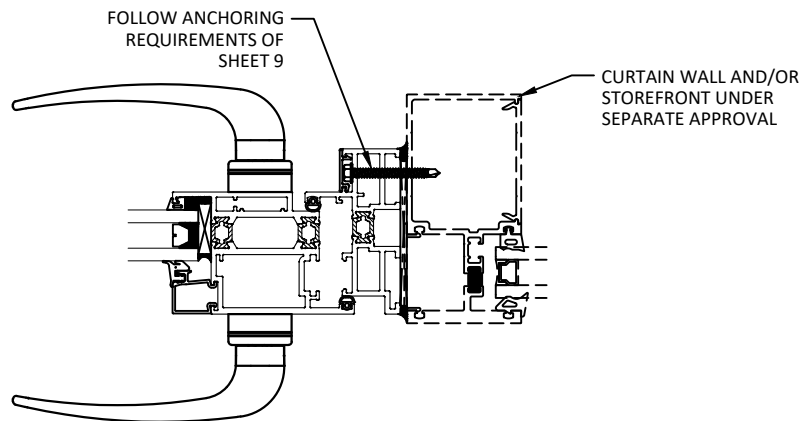
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6 HORIZONTAL SECTION
OUTSWING - HINGE JAMB FLAT



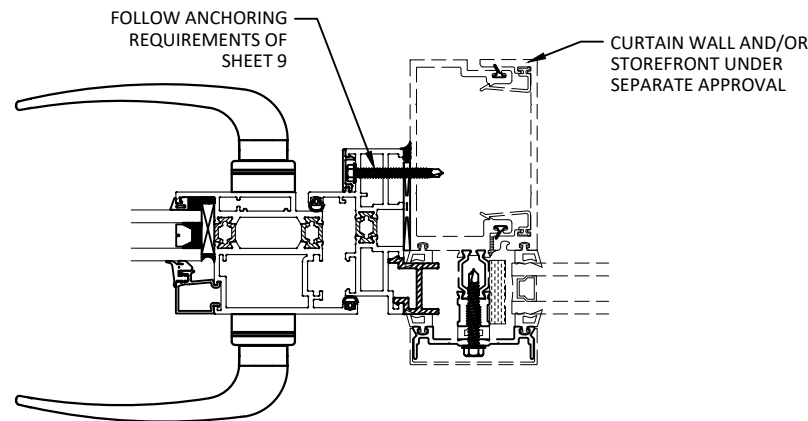
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OUTSWING - OPTIONAL HINGE JAMB CAPTURE



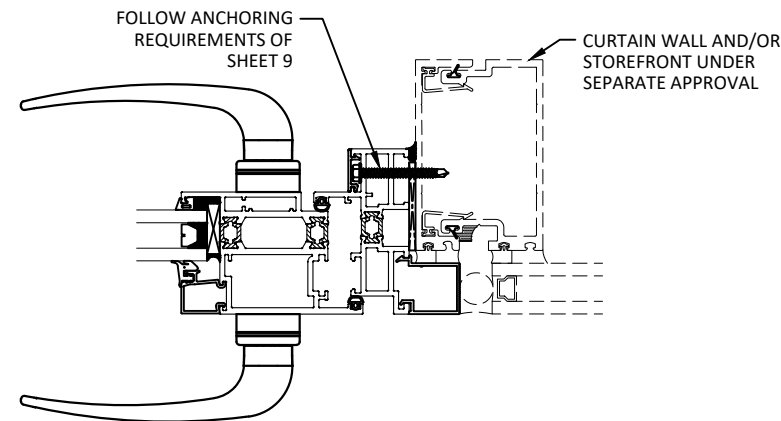
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6 HORIZONTAL SECTION
OUTSWING - OPTIONAL HINGE JAMB SSG



G
6 HORIZONTAL SECTION
OUTSWING - LOCK JAMB FLAT



H
6 HORIZONTAL SECTION
OUTSWING - OPTIONAL LOCK JAMB CAPTURE



I
6 HORIZONTAL SECTION
OUTSWING - OPTIONAL LOCK JAMB SSG

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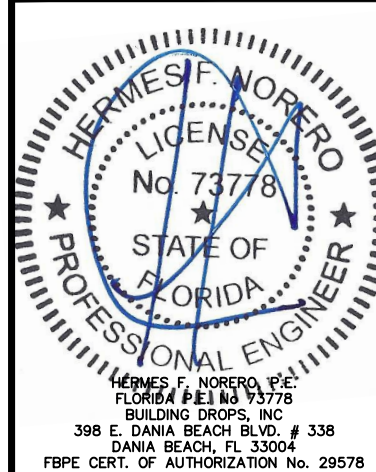
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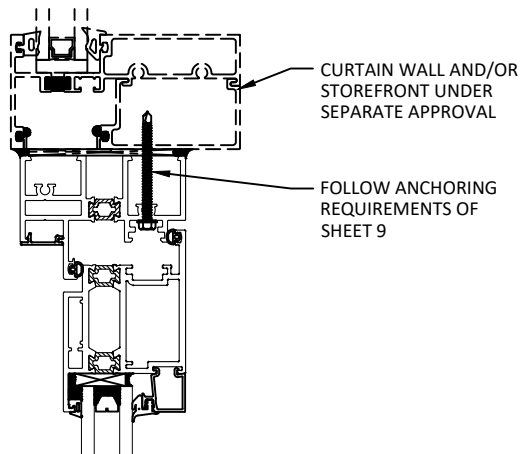
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CHK. BY: HFN

SCALE: NTS

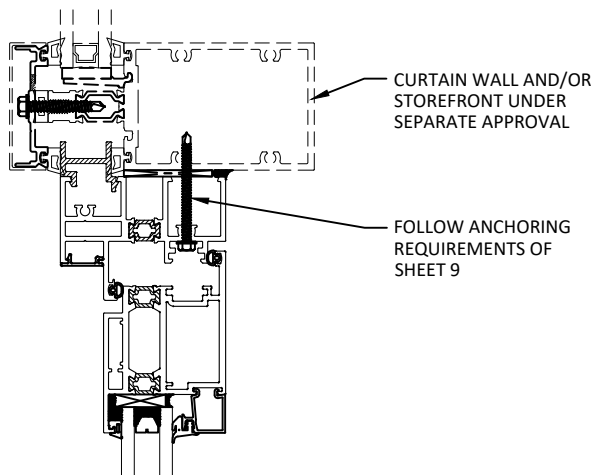
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6

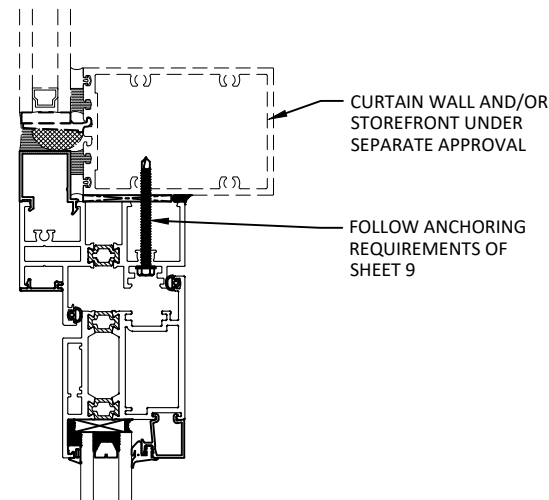
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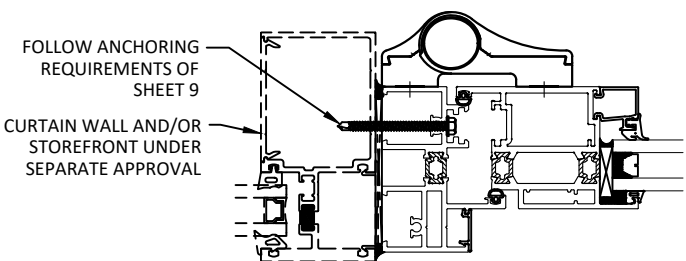
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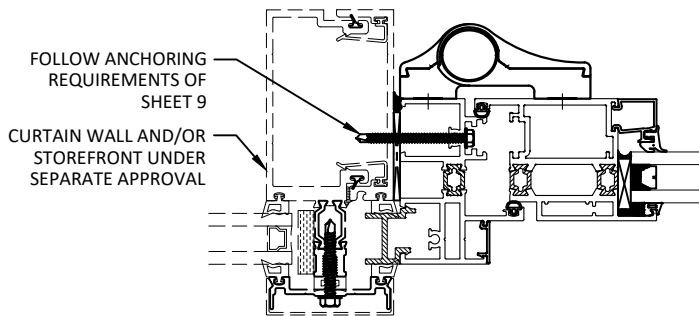
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IN SWING - OPTIONAL HEAD CAPTURE



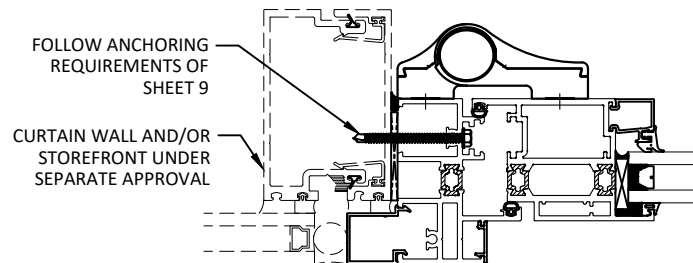
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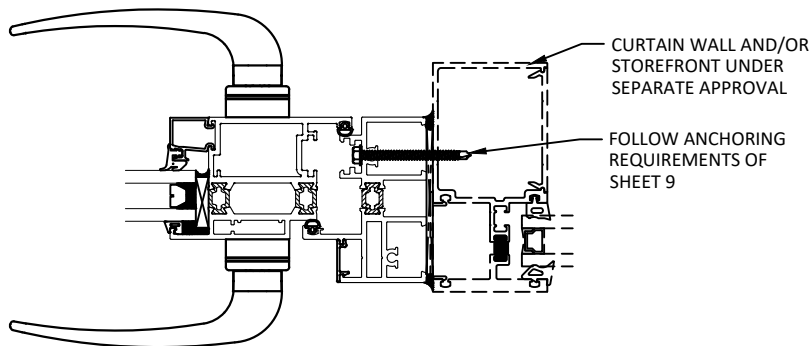
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7 HORIZONTAL SECTION
IN SWING - HINGE JAMB FLAT



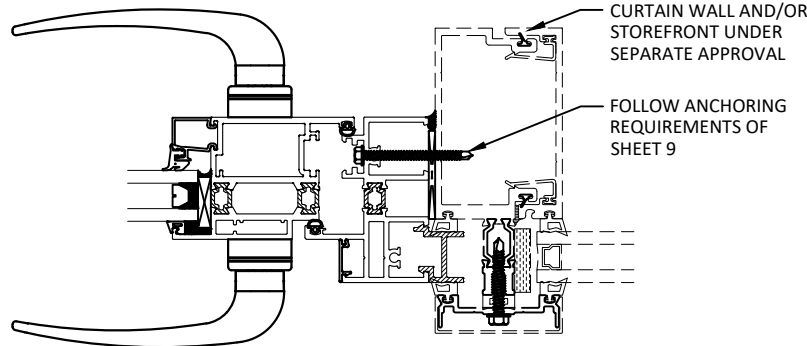
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IN SWING - OPTIONAL HINGE JAMB CAPTURE



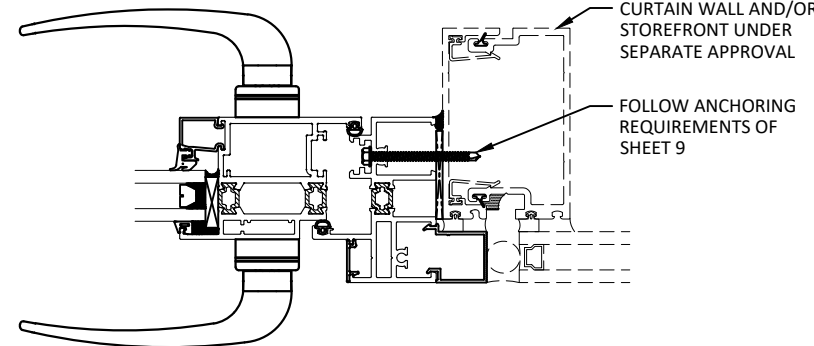
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7 HORIZONTAL SECTION
IN SWING - OPTIONAL HINGE JAMB SSG



G
7 HORIZONTAL SECTION
IN SWING - LOCK JAMB FLAT



H
7 HORIZONTAL SECTION
IN SWING - OPTIONAL LOCK JAMB CAPTURE



I
7 HORIZONTAL SECTION
IN SWING - OPTIONAL LOCK JAMB SSG

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WALKER, MICHIGAN 49544

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TITLE: TERRAPORTE 7600 SERIES
IN SWING & OUTSWING DOOR
(NON-HVHZ) (NON-IMPACT)

IN SWING DOOR CONNECTION DETAILS

PREPARED BY:

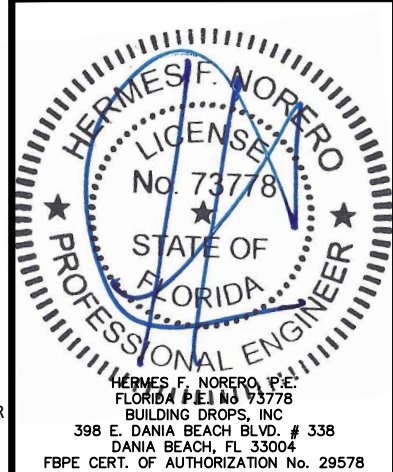
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DANIA BEACH, FL 33004
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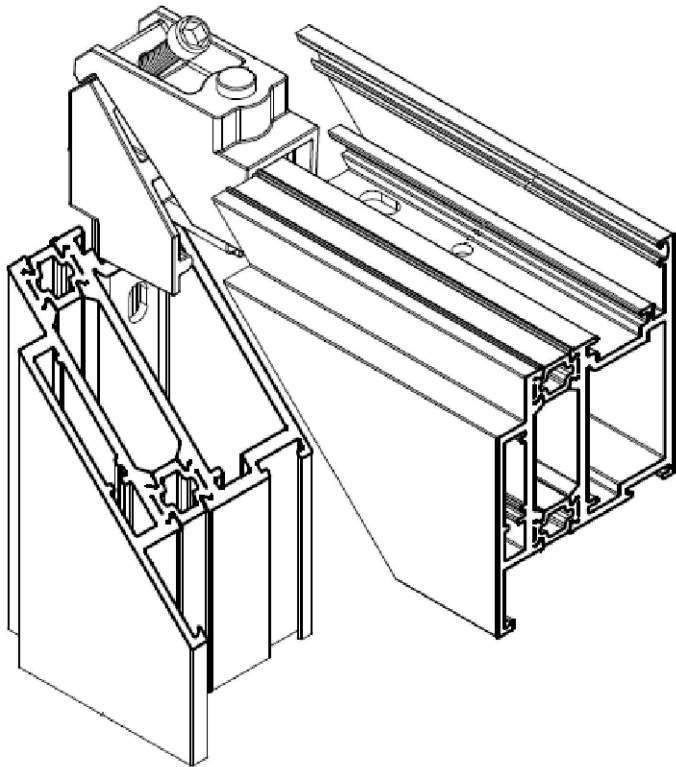
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SCALE: NTS

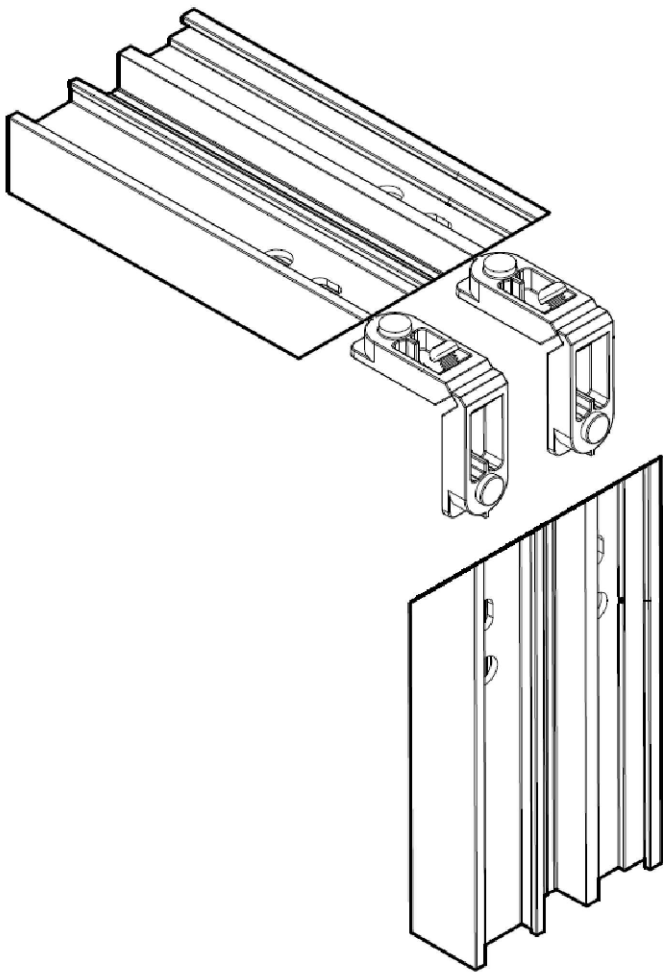
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RAIL - STILE CONNECTION DETAIL



FRAME CORNER CONNECTION DETAIL

HARDWARE DETAILS		
COMPONENT	MANUFACTURER	PART NO.
LOCK HANDLE ASSEMBLY	GIESSE/SAVIO	74031xx
DEADBOLT ASSEMBLY	GIESSE	740101
MULTI-POINT LOCK ASSEMBLY	GIESSE	04628
KEEPERS	SAVIO	11726
STRIKEPLATE	GIESSE	04640
HINGES	GIESSE	00598

- HARDWARE NOTES:
- USE TWO HINGES MINIMUM PER DOOR
 - USE MULTIPOINT SYSTEM WITH LATCH AND DEADBOLT AT LOCK HANDLE ASSEMBLY, AND FOUR ADDITIONAL LOCKING POINTS DISTRIBUTED ALONG HEIGHT OF DOOR LEAF

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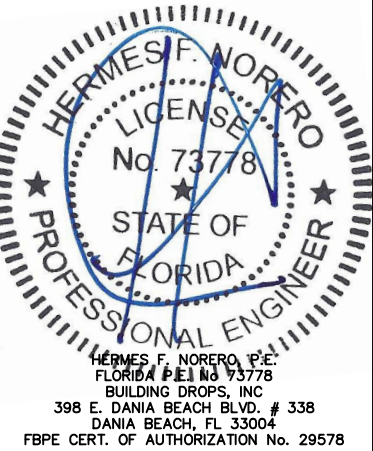
TITLE: TERRAPORTE 7600 SERIES
INSWING & OUTSWING DOOR
(NON-HVHZ) (NON-IMPACT)
HARDWARE DETAILS
& CORNER CONSTRUCTION

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DWG. BY: **RV** CHK. BY: **HFN**

SCALE: **NTS**

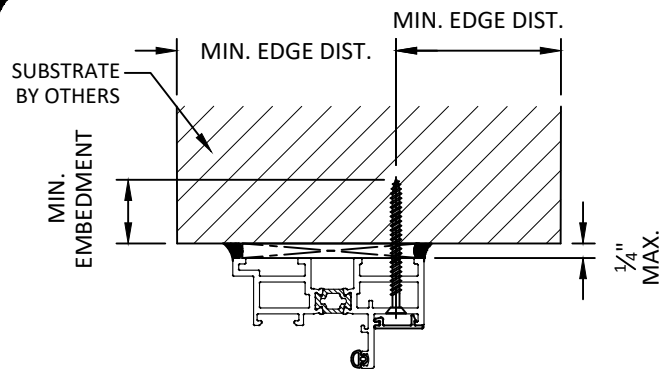
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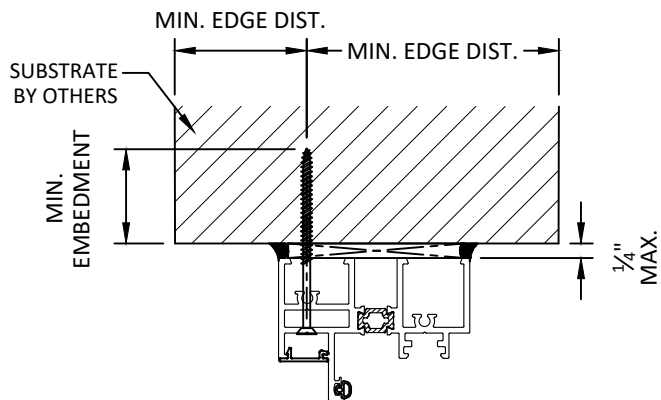


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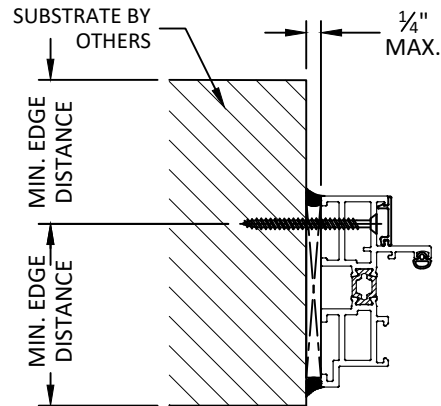
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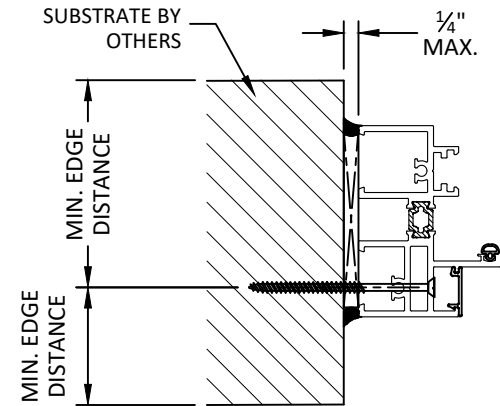
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9 ANCHOR DETAIL
OUTSWING DOOR HEAD



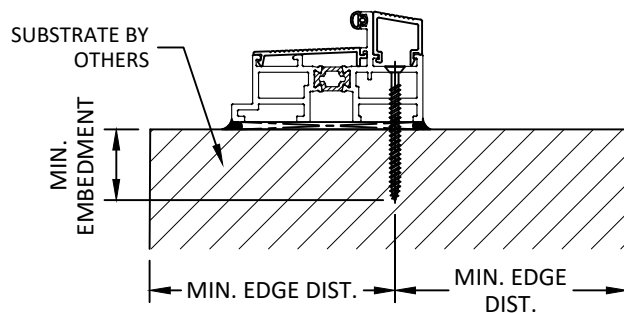
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9 ANCHOR DETAIL
INSWING DOOR HEAD



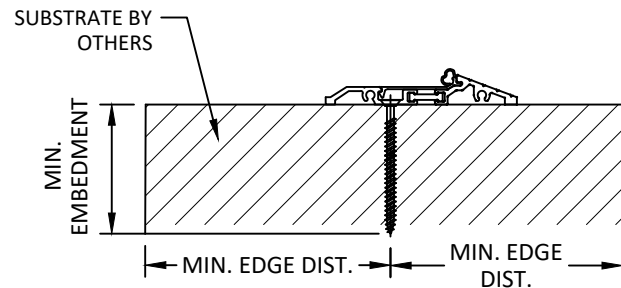
C
9 ANCHOR DETAIL
OUTSWING DOOR JAMB



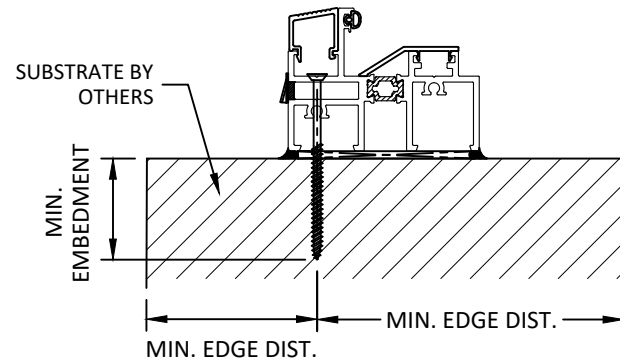
D
9 ANCHOR DETAIL
INSWING DOOR JAMB



E
9 ANCHOR DETAIL
OUTSWING DOOR THRESHOLD



F
9 ANCHOR DETAIL
accessABLE DOOR THRESHOLD



G
9 ANCHOR DETAIL
INSWING DOOR THRESHOLD

ANCHOR LOCATION NOTE:

- FOR OUTSWING DOORS ALWAYS ANCHOR THROUGH INTERIOR TRACK.
- FOR INSWING DOORS, ANCHOR THROUGH EXTERIOR TRACK AS SHOWN ON THIS SHEET WHEN ATTACHING DIRECTLY TO BUILDING STRUCTURE. WHEN ATTACHING TO CURTAIN WALL, RIBBON WINDOW, OR STOREFRONT, ANCHOR THROUGH INTERIOR CHANNEL, AS SHOWN ON SHEET 7, FOLLOWING ANCHOR SPACING REQUIREMENTS ON SHEET 3.

TYPE	ANCHOR	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
A	1/4" ELCO ULTRA CON (CARBON STEEL)	3000 PSI CONCRETE MIN. <u>OR</u> GROUT FILLED CMU PER ASTM C-90 W/ MIN. F'C=2000 PSI	1.75"	2.5"
B	1/4" ITW TAPCON (CARBON OR STAINLESS STEEL)		1.75"	2.5"
C	1/4" HILTI KWIK-CON II+ (CARBON OR STAINLESS STEEL)		1"	2.5"
D	#12 WOOD SCREW	2X WOOD MIN. S.G.=0.55	1.5"	0.75"
E	#14 WOOD SCREW		1.5"	1"
F	#12 GR. 5 SELF-TAPPING/DRILLING SCREW	MIN. 18 GA STEEL STUD (0.0478") 33 KSI	3 THREADS*	0.75"
G	1/4" GR. 5 SELF-TAPPING/DRILLING SCREW	<u>OR</u> MIN. 0.080" 6063-T5 ALUMINUM	3 THREADS*	1"
H	3/8" POWERS TAPPER (CARBON STEEL)	3000 PSI CONCRETE MIN.	1.25"	2.5"
I	3/8" POWERS TAPPER (CARBON STEEL)	GROUT FILLED CMU PER ASTM C-90 W/ MIN. F'C=2000 PSI	1.75"	3"
J	3/8" ITW LDT (CARBON STEEL)	3000 PSI CONCRETE MIN.	1.5"	2.5"
K	3/8" ITW LDT (CARBON STEEL)	GROUT FILLED CMU PER ASTM C-90 W/ MIN. F'C=2000 PSI	1.5"	3"
L	3/8" ITW TRUBOLT WEDGE (CARBON STEEL OR SS)	2000 PSI CONCRETE MIN.	1.5"	2.5"
M	3/8" LAG SCREW	2X WOOD MIN. S.G.=0.55	1.5"	1.5"
N	5/16" GR. 5 SELF-TAPPING/DRILLING SCREW	MIN. 18 GA STEEL STUD (0.0478") 33 KSI <u>OR</u> MIN. 0.080" 6063-T5 ALUMINUM	3 THREADS*	1"

*FOR STEEL AND ALUMINUM, ANCHOR SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS OF PENETRATION BEYOND THE WALL OF THE METAL

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. 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.
5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
6. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
7. 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.
8. 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.

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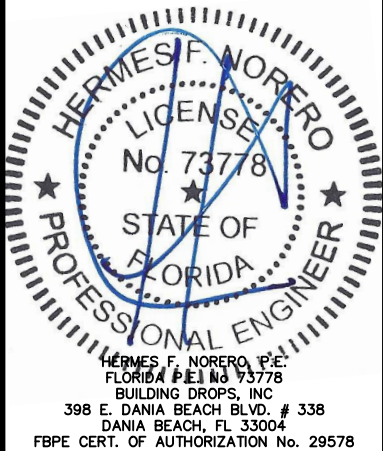
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