

TUBELITE[®]

DEPENDABLE

SERIES 400T CURTAIN WALL - SSG (HVHZ) (IMPACT)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBERS OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITH OUT CONSIDERATION OF TOLERANCE). TOLERANCE ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- REFER TO SECTION 7 FOR ANCHOR TYPE, SUBSTRATE STRENGTH, EMBEDMENT, & EDGE DISTANCE REQUIREMENTS. FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS FOR INSTALLATION OF ANCHORS.
- 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.
- 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. ADHESIVE ANCHORS MUST BE INSTALLED BY PERSONNEL CERTIFIED FOR THE SPECIFIED ANCHOR INSTALLATION.

INSTRUCTIONS:

USE CHARTS AS FOLLOW

- DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- SEE CHARTS ON SECTION 6 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- CHECK MULLION CAPACITY FOR A GIVEN SPACING, HEIGHT, SINGLE SPAN, TWIN SPAN, MULTIPLE SPANS AND CORNERS ON SECTIONS 3 & 4.
- USING HEAD/SILL ANCHOR DETAILS, SELECT ANCHOR OPTION FROM TABLES ON SECTION 7 WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- THE LOWEST VALUE RESULTING FROM STEPS 2, 3, AND 4 SHALL APPLY TO ENTIRE SYSTEM.

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE, **INCLUDING** REQUIREMENTS FOR HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA 501-15
 - ASTM E283-19
 - ASTM E330-14(21)
 - ASTM E331-00(16)
 - ASTM E1886-19
 - ASTM E1996-20
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND STEEL 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.
- 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND THE INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITION CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE OF WIND ZONE 3 OR LESS.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE.

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9	COMPONENTS & BILL OF MATERIALS

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LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS

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

TITLE:
SERIES 400T CURTAIN WALL - SSG
(HVHZ) (IMPACT)

COVER SHEET & GENERAL NOTES

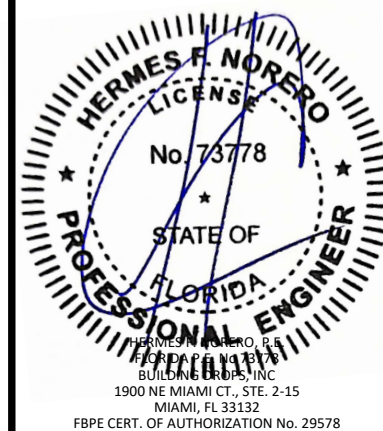
PREPARED BY:
BUILDING DROPS, INC.

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



REMARKS	BY	DATE
MULLION UPDATE	DI	2/2024

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FL46180

DATE: **12.19.23**

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

SCALE: **NTS**

DWG. #: **TLI017**

SECTION
1.0

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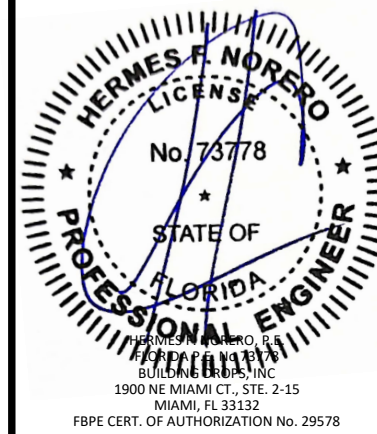
ELEVATIONS

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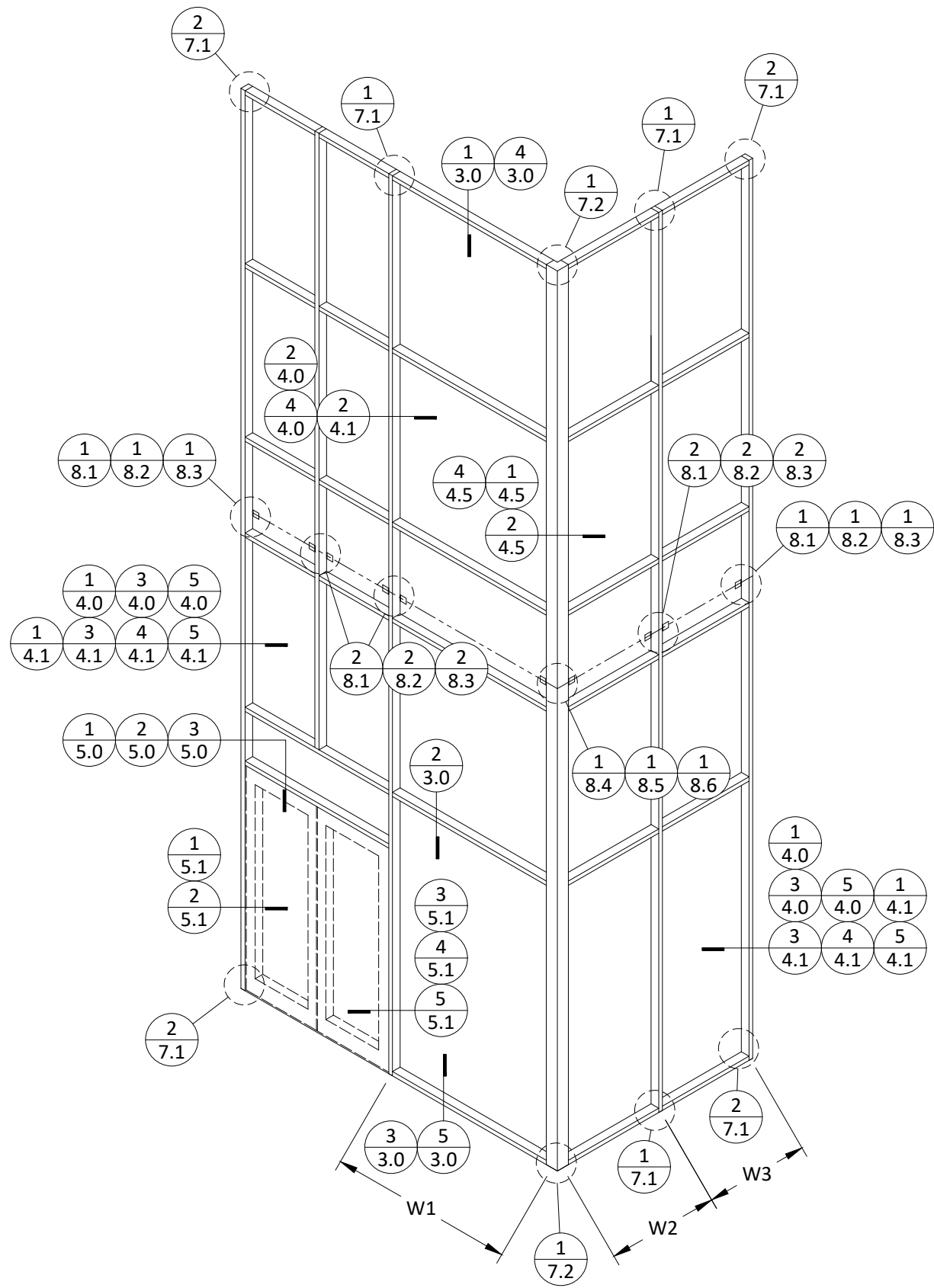
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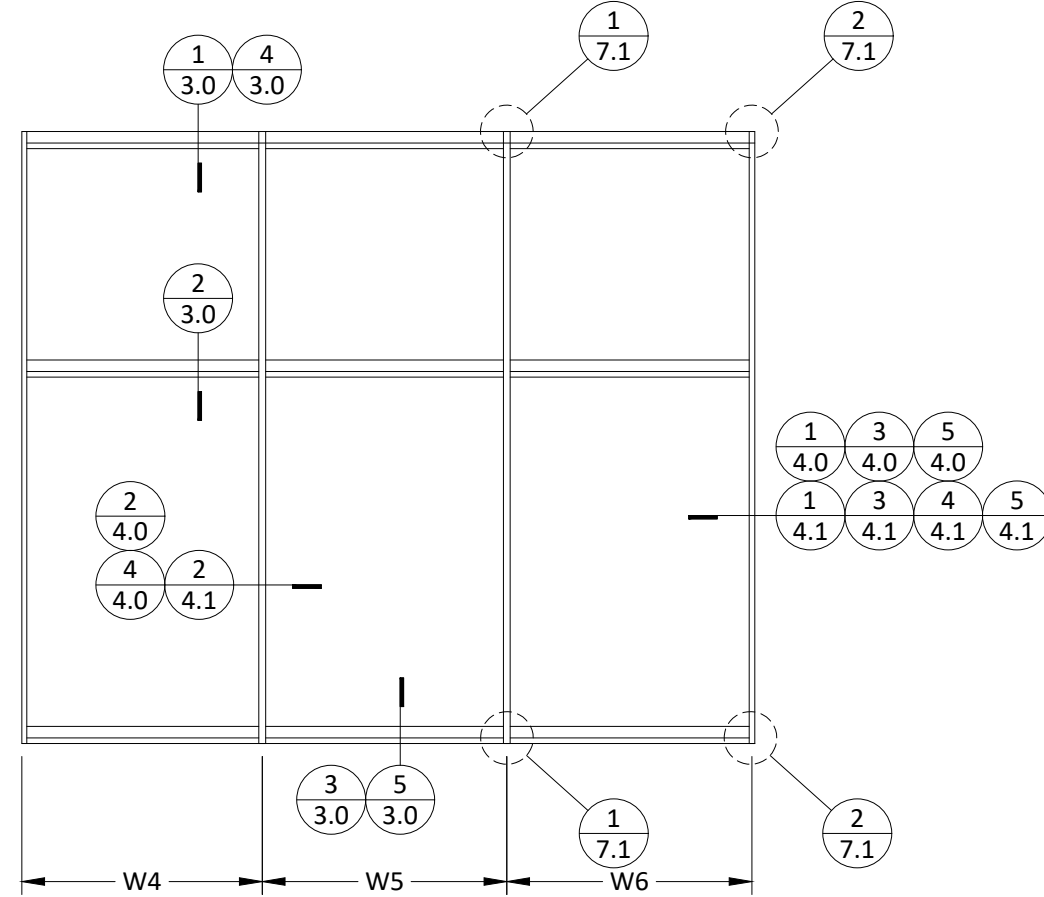
DWG. #: **TLI017**

SECTION
2.0



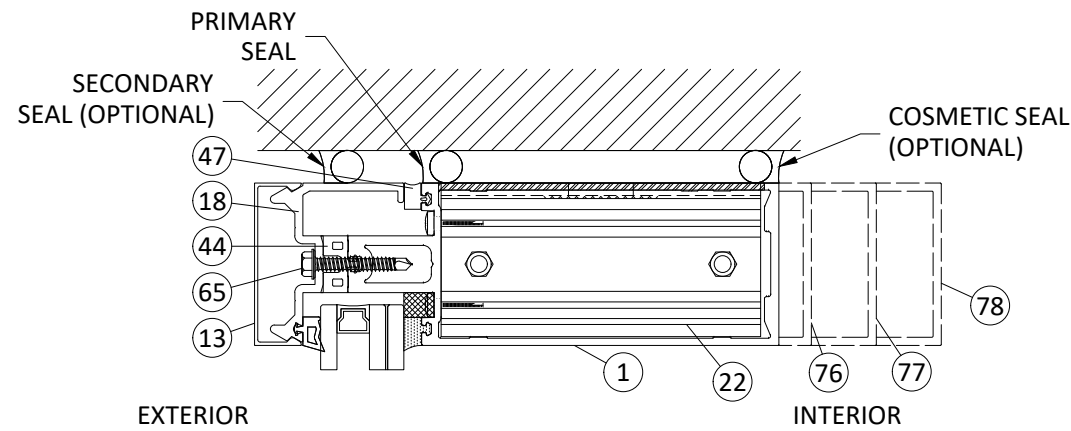
TYPICAL TWIN SPAN

AVERAGE MULLION SPACING
 TYP. MULL. (W) = $\frac{W2 + W3}{2}$ OR $\frac{W4 + W5}{2}$
 JAMB MULL. (W) = W3 OR W6
 OUTSIDE CORNER MULL. (W) = $\frac{W1 + W2}{2}$

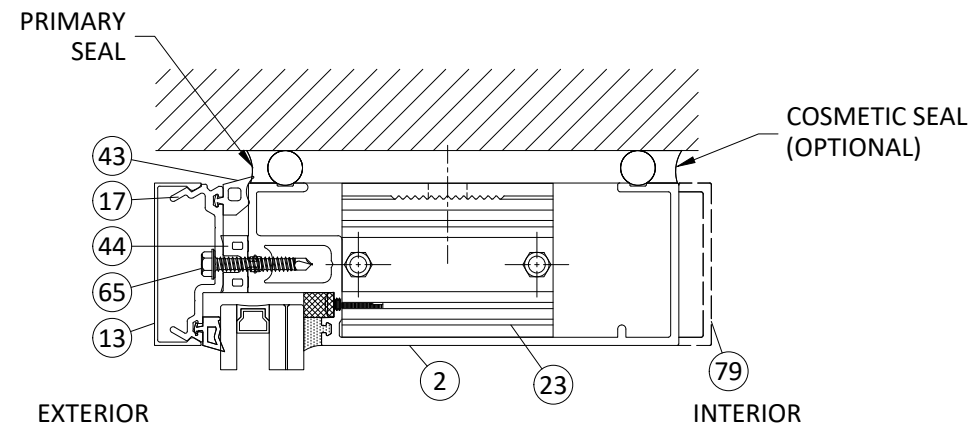


TYPICAL SINGLE SPAN

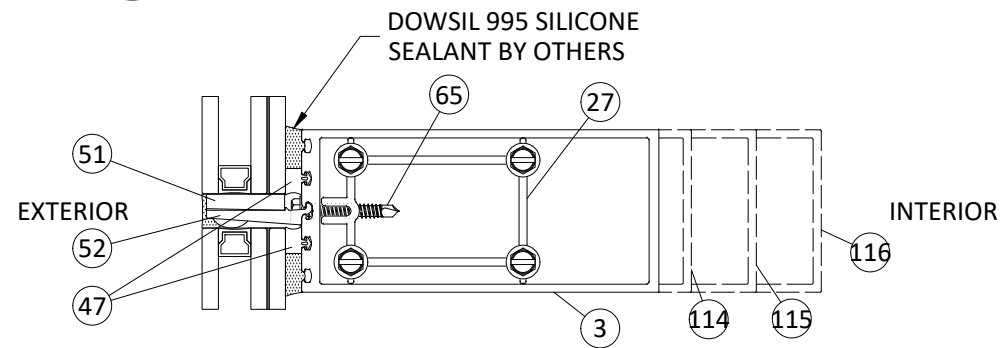
HORIZONTAL SECTIONS



1
3.0
HEAD
STANDARD



4
3.0
HEAD
OPEN-BACK

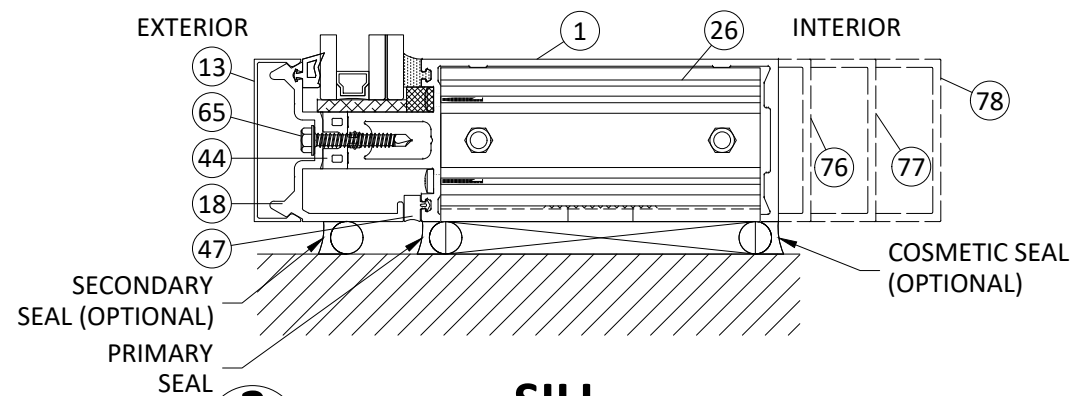


2
3.0
HORIZ. MULLION
STANDARD

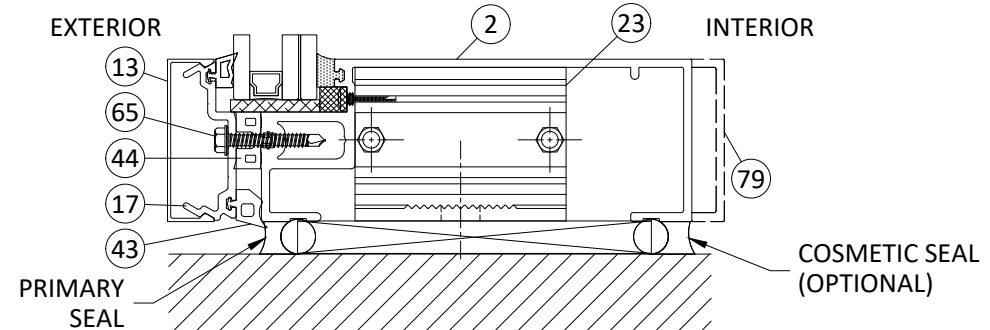
DESIGN PRESSURE TABLE:
HORIZONTAL MEMBER

MAX. MEMBER SPAN LENGTH "W" (IN.)	DESIGN PRESSURE (PSF)
49	+90 / -90

NOTE: HORIZONTAL MEMBER CAPACITY IS LIMITED BY SINGLE SPAN.



3
3.0
SILL
STANDARD



5
3.0
SILL
OPEN-BACK

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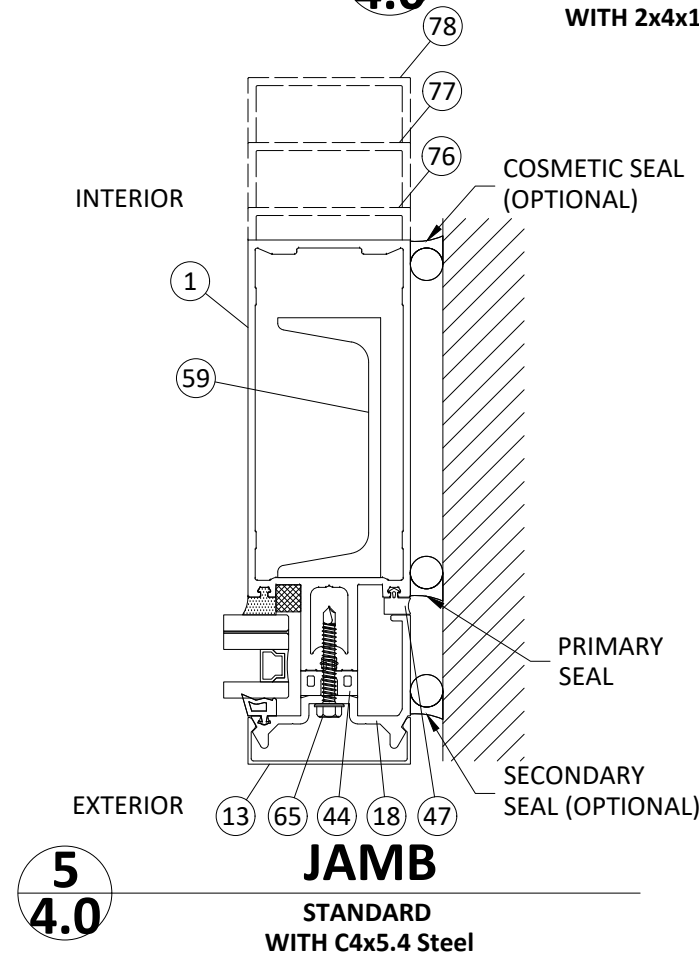
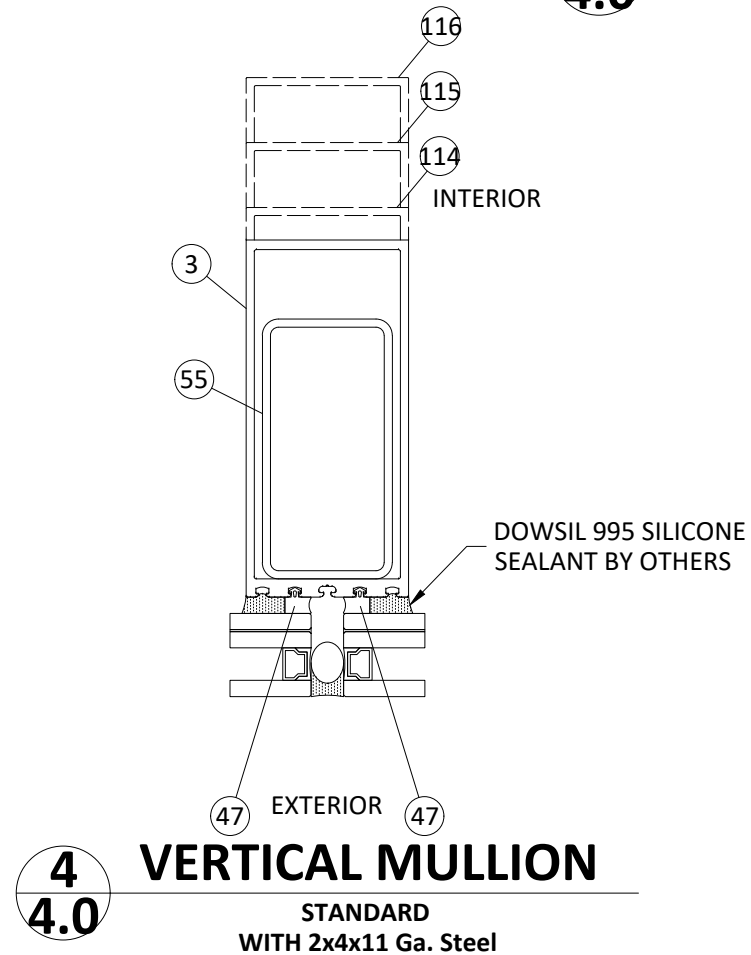
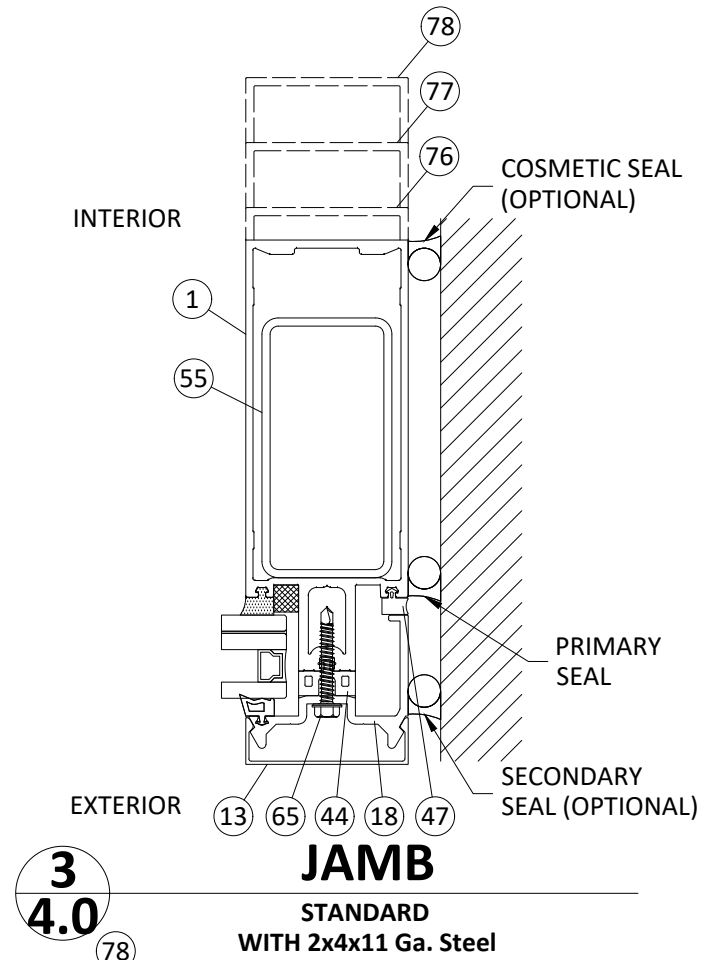
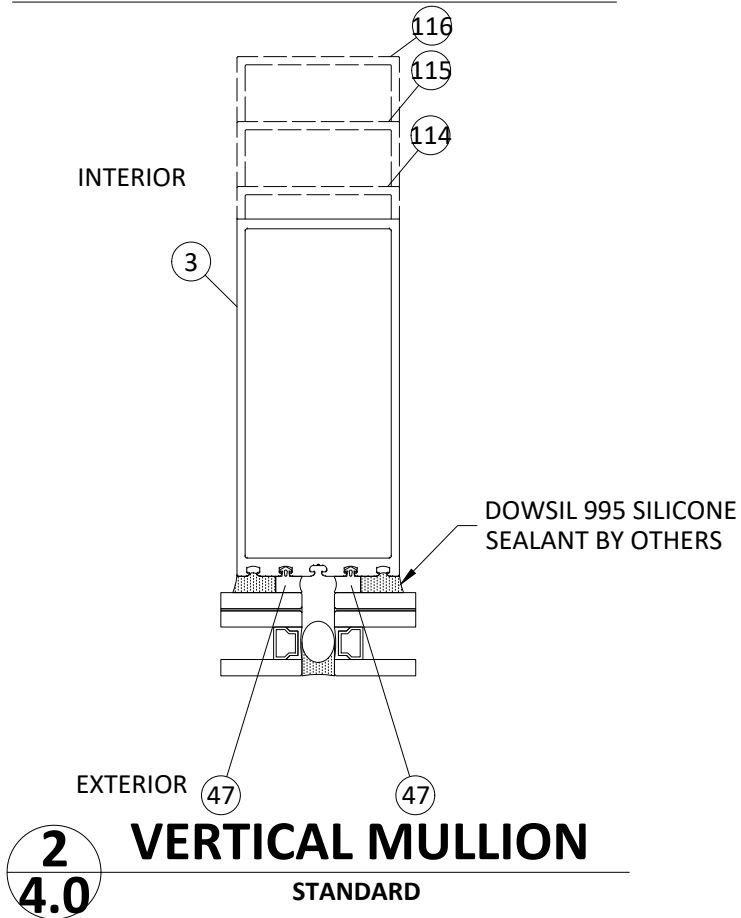
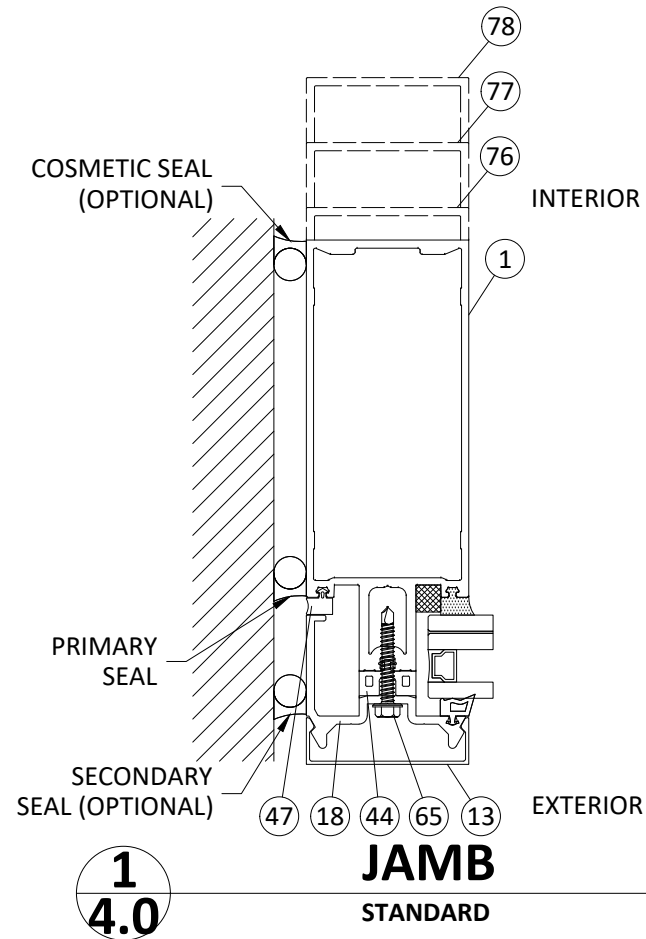
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SECTION
3.0

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VERTICAL DETAILS

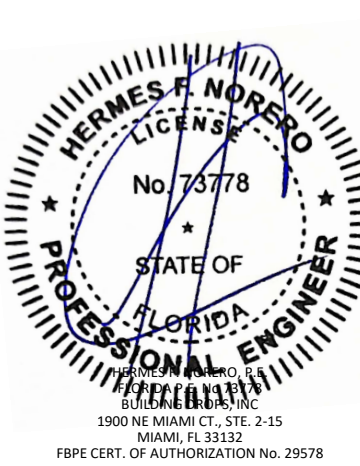


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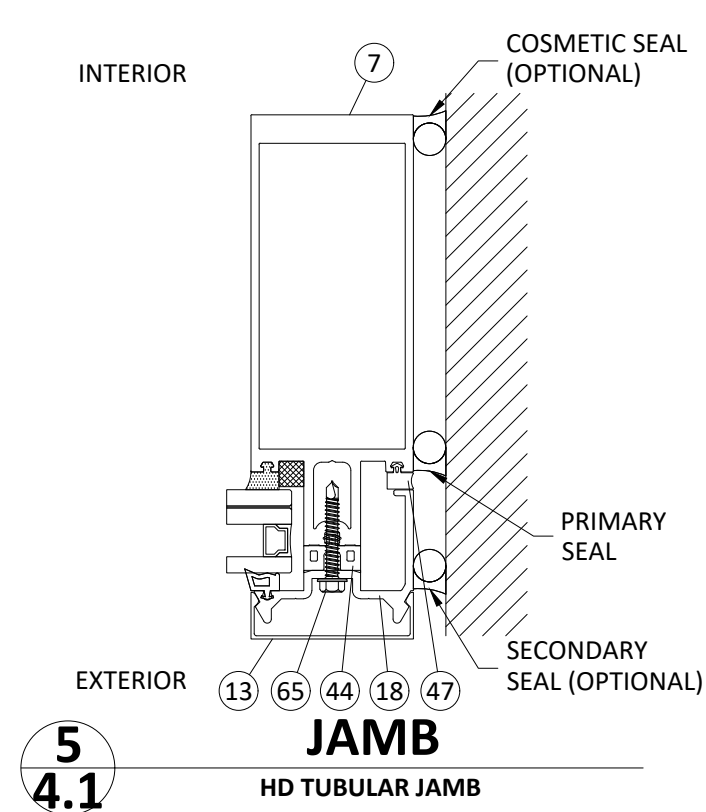
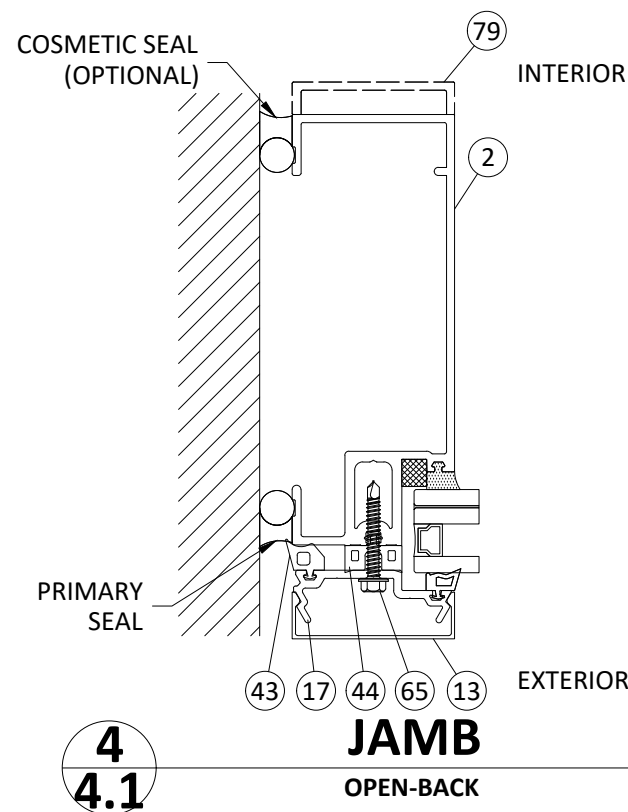
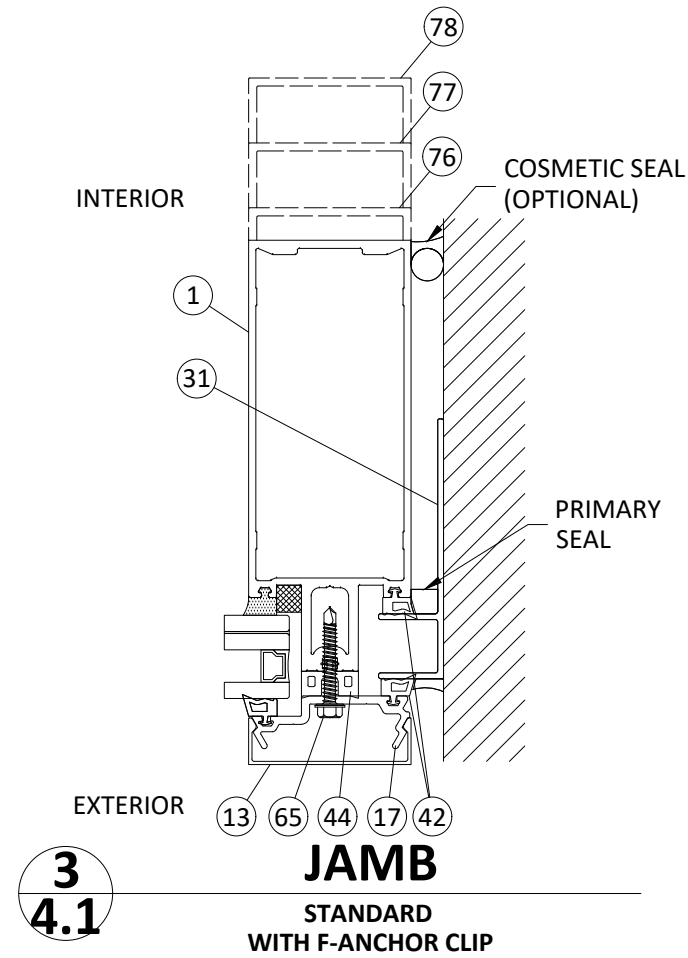
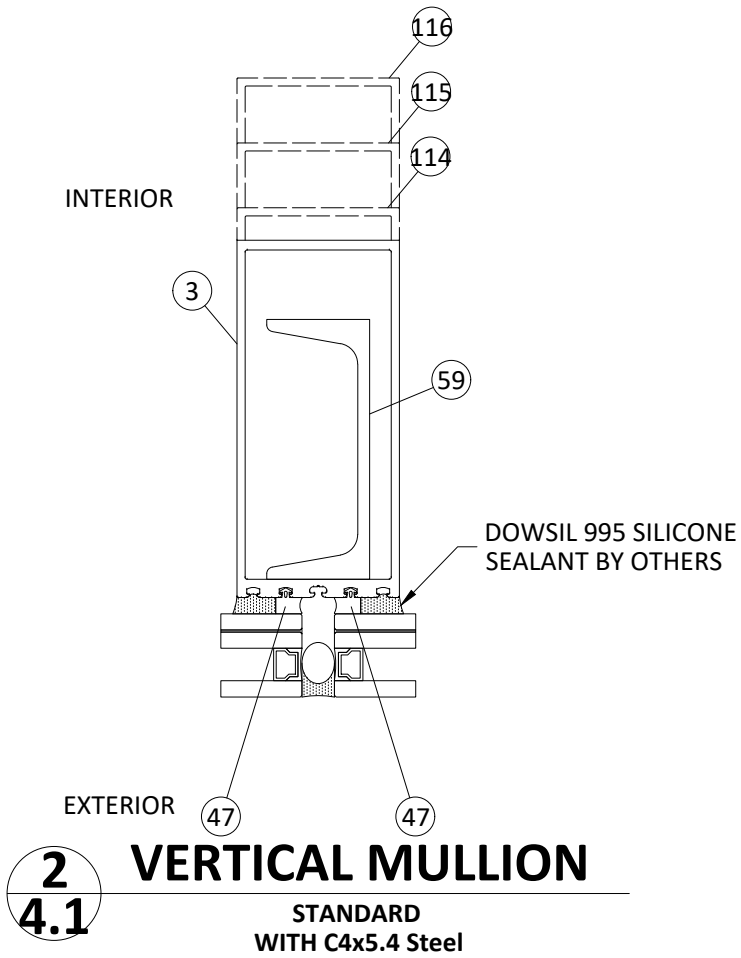
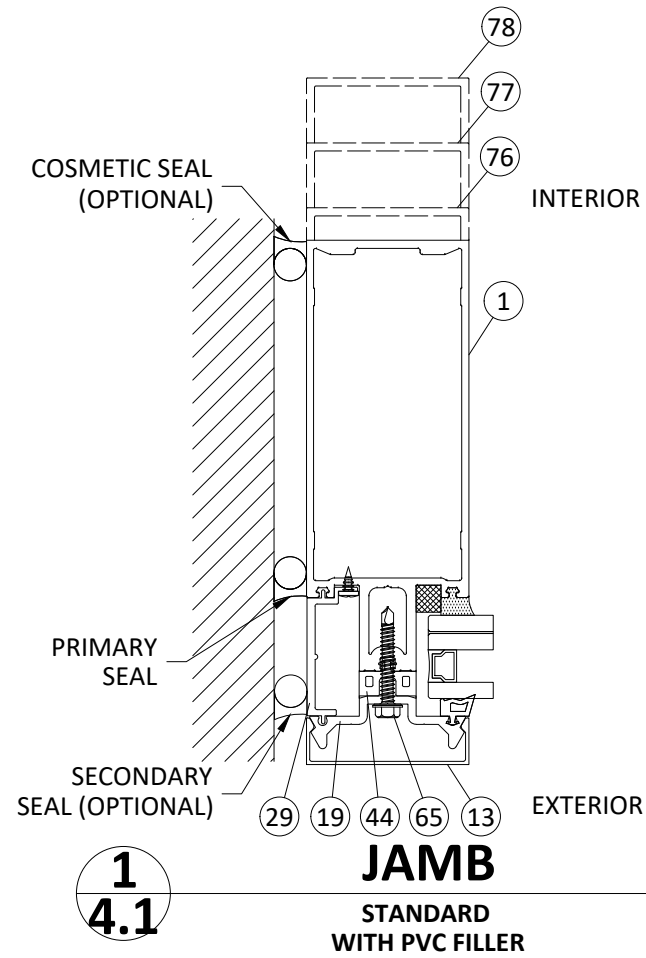
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 SECTION **4.0**

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VERTICAL DETAILS



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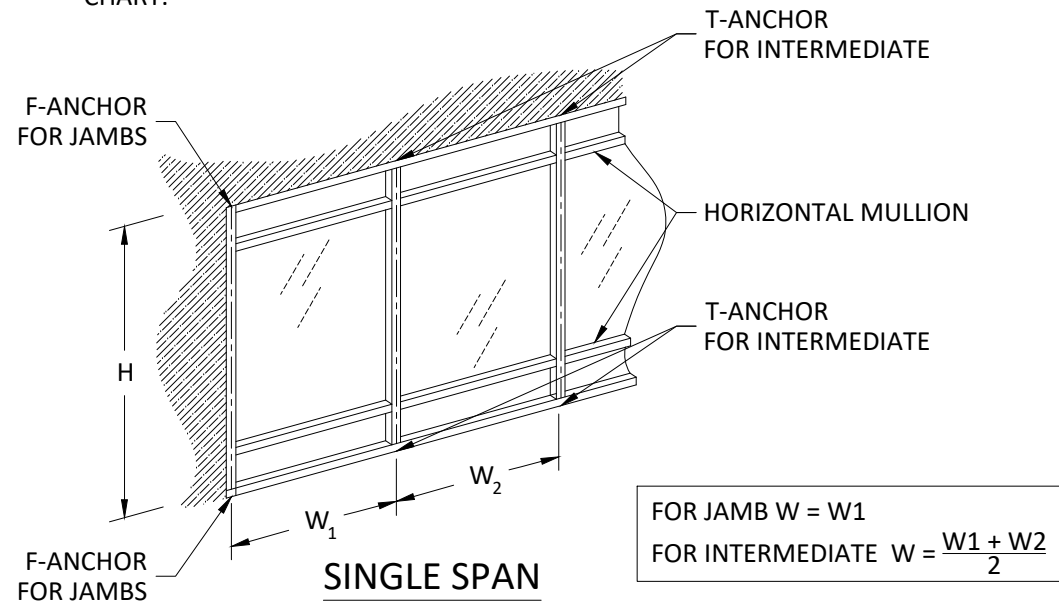
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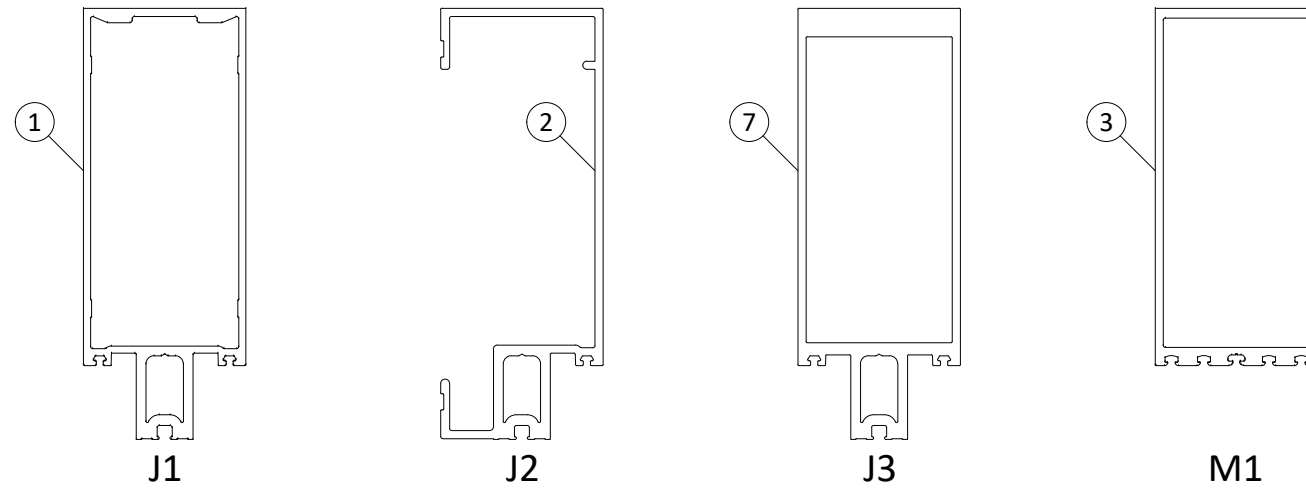
SECTION
4.1

VERTICAL MULLION CAPACITY

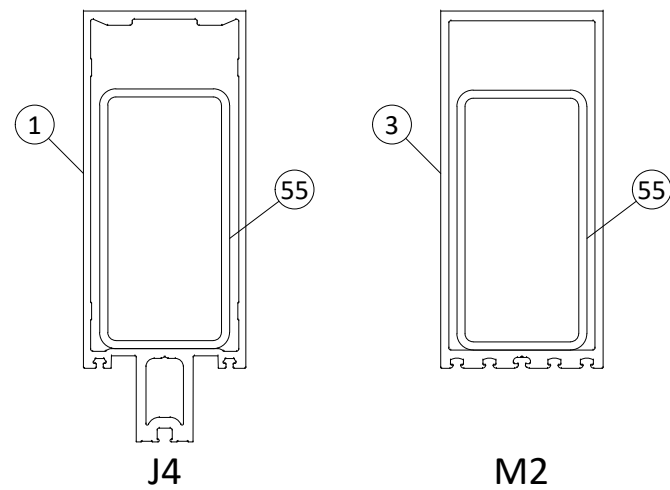
- NOTE:
- DESIGN PRESSURES ARE LIMITED BY THE MULLION FIBERSTRESS AND DEFLECTION CAPACITY PER FBC CURRENT SPECIFICATIONS FOR HVHZ
 - SELECT DESIGN PRESSURE AND PANEL WIDTH (W) AND OBTAIN THE MAXIMUM ALLOWABLE DESIGN PRESSURE FOR MULLION.
 - FOR HORIZONTAL MULLIONS CAPACITY, SEE HORIZONTAL MULLION CHART.
 - WHEN PANEL WIDTHS ARE NOT EQUAL, USE THE AVERAGE WIDTH ON THE CHART.



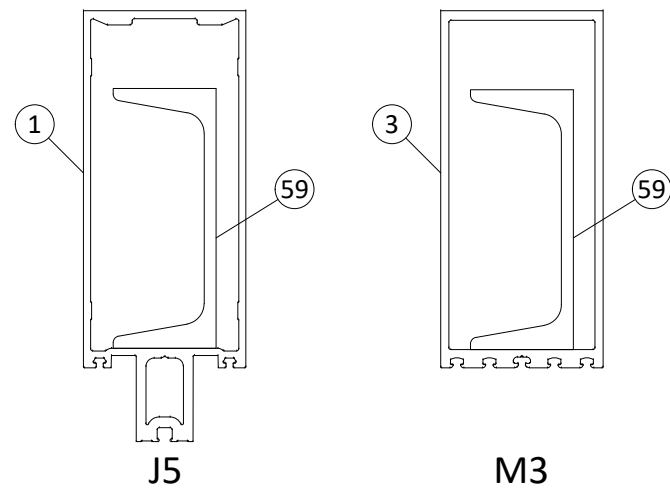
CASE 1



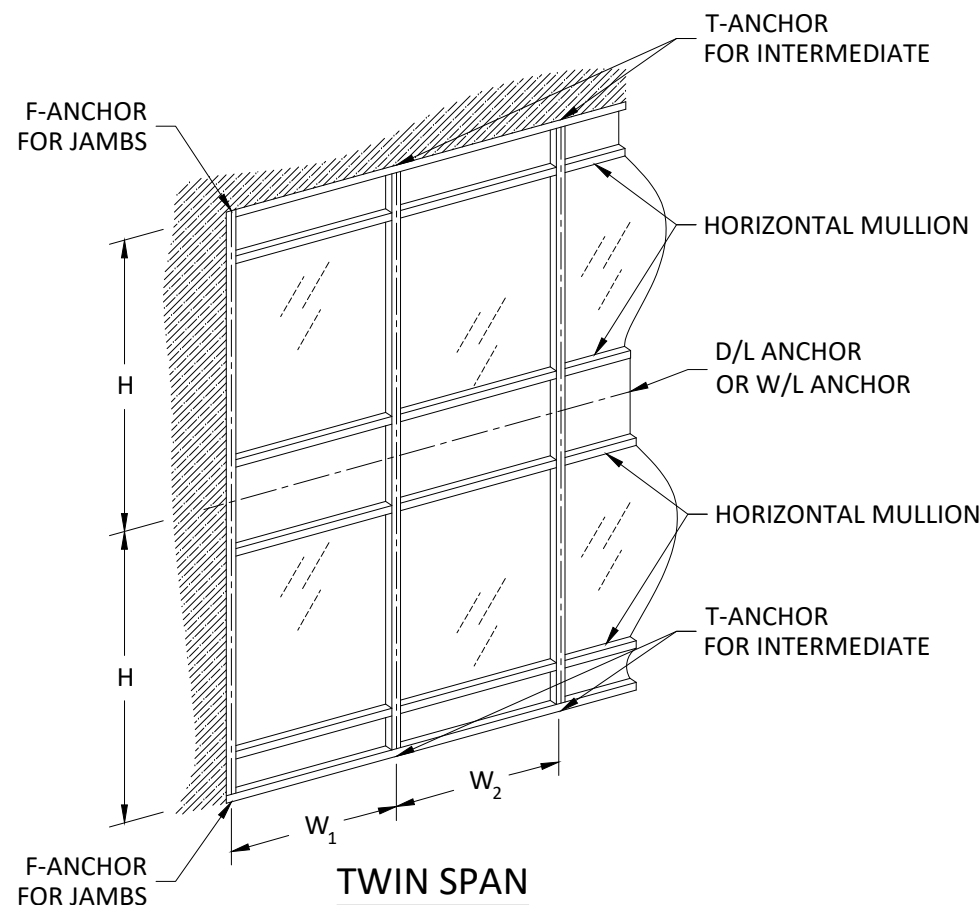
CASE 2



CASE 3



CASE 1: SINGLE SPAN WITH UNREINFORCED MULLION
 CASE 2: SINGLE SPAN WITH REINFORCED MULLION
 CASE 3: TWIN SPAN WITH REINFORCED MULLION



NOTE:
 THE 5.5" MULLION IS SHOWN ABOVE. THE 6", 7" & 8" MULLIONS ARE QUALIFIED FOR THE SAME SIZES AND PRESSURES SHOWN ON SECTION 4.3 AND 4.4.

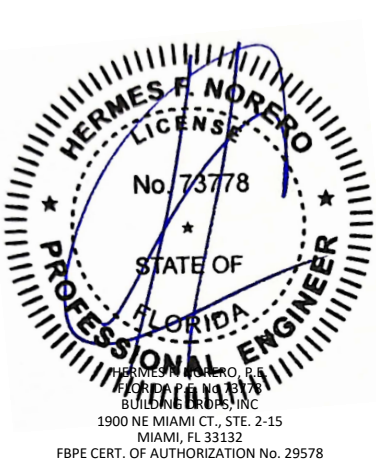
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 SECTION **4.2**

VERTICAL MULLION CAPACITY

DESIGN PRESSURE TABLE (PSF)						
TRIBUTARY WIDTH (INCH)	SPAN HEIGHT (INCH)	CASE 1		CASE 2		
		J1/J2/J3 EXT. (+) INT. (-)	M1 EXT. (+) INT. (-)	J4 EXT. (+) INT. (-)	M2 EXT. (+) INT. (-)	
24	90	90.0	90.0	90.0	90.0	90.0
30		90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0	90.0
49		90.0	90.0	90.0	90.0	90.0
24	96	90.0	90.0	90.0	90.0	90.0
30		90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0	90.0
49		90.0	90.0	90.0	90.0	90.0
24	102	90.0	90.0	90.0	90.0	90.0
30		90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0	90.0
49		90.0	90.0	90.0	90.0	90.0
24	108	90.0	90.0	90.0	90.0	90.0
30		90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0	90.0
49		90.0	90.0	90.0	90.0	90.0
24	112	90.0	90.0	90.0	90.0	90.0
30		90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0	90.0
49		90.0	90.0	90.0	90.0	90.0
24	120	-	-	90.0	90.0	90.0
30		-	-	90.0	90.0	90.0
36		-	-	90.0	90.0	90.0
42		-	-	90.0	90.0	90.0
49		-	-	90.0	89.0	90.0
24	126	-	-	90.0	90.0	90.0
30		-	-	90.0	90.0	90.0
36		-	-	90.0	90.0	90.0
42		-	-	90.0	90.0	90.0
49		-	-	90.0	84.7	90.0
24	132	-	-	90.0	90.0	90.0
30		-	-	90.0	90.0	90.0
36		-	-	90.0	90.0	90.0
42		-	-	90.0	90.0	90.0
49		-	-	90.0	80.9	89.8
24	138	-	-	90.0	90.0	90.0
30		-	-	90.0	90.0	90.0
36		-	-	90.0	90.0	90.0
42		-	-	90.0	90.0	90.0
49		-	-	90.0	77.3	85.9
24	144	-	-	90.0	90.0	90.0
30		-	-	90.0	90.0	90.0
36		-	-	90.0	90.0	90.0
42		-	-	90.0	86.5	90.0
49		-	-	90.0	74.1	82.4
24	148.25	-	-	90.0	90.0	90.0
30		-	-	90.0	90.0	90.0
36		-	-	90.0	90.0	90.0
42		-	-	90.0	84.0	90.0
49		-	-	90.0	72.0	80.0

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WEB: www.buildingdrops.com



REMARKS	BY	DATE
MULLION UPDATE	DI	2/2024

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FL #: **FL46180**

DATE: **12.19.23**

DWG. BY: MS	CHK. BY: HFN
-----------------------	------------------------

SCALE: **NTS**

DWG. #: **TLI017**

SECTION
4.3

2/27/2024 3:28 PM
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VERTICAL MULLION CAPACITY

DESIGN PRESSURE TABLE (PSF)			
TRIBUTARY WIDTH (INCH)	SPAN HEIGHT (INCH)	CASE 3	
		J5	M3
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
24	90	63.3	63.3
30		63.3	63.3
36		63.3	63.3
42		63.3	63.3
49		63.3	63.3
24	96	63.3	63.3
30		63.3	63.3
36		63.3	63.3
42		63.3	63.3
49		63.3	63.3
24	102	63.3	63.3
30		63.3	63.3
36		63.3	63.3
42		63.3	63.3
49		63.3	63.3
24	108	63.3	63.3
30		63.3	63.3
36		63.3	63.3
42		63.3	63.3
49		63.3	63.3
24	114	63.3	63.3
30		63.3	63.3
36		63.3	63.3
42		63.3	63.3
49		63.3	63.3
24	120	63.3	63.3
30		63.3	63.3
36		63.3	63.3
42		63.3	63.3
49		63.3	63.3
24	126	63.3	63.3
30		63.3	63.3
36		63.3	63.3
42		63.3	63.3
49		63.3	63.3
24	132	63.3	63.3
30		63.3	63.3
36		63.3	63.3
42		63.3	63.3
49		63.3	63.3

DESIGN PRESSURE TABLE (PSF)			
TRIBUTARY WIDTH (INCH)	SPAN HEIGHT (INCH)	CASE 3	
		J5	M3
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
24	138	63.3	63.3
30		63.3	63.3
36		63.3	63.3
42		63.3	63.3
49		63.3	63.3
24	144	63.3	63.3
30		63.3	63.3
36		63.3	63.3
42		63.3	63.3
49		63.3	63.3
24	150	63.3	63.3
30		63.3	63.3
36		63.3	63.3
42		63.3	63.3
49		63.3	63.3
24	156	63.3	63.3
30		63.3	63.3
36		63.3	63.3
42		63.3	63.3
49		63.3	63.3
24	162	63.3	63.3
30		63.3	63.3
36		63.3	63.3
42		63.3	63.3
49		63.3	63.3
24	168	63.3	63.3
30		63.3	63.3
36		63.3	63.3
42		63.3	63.3
49		63.3	63.3
24	174	63.3	63.3
30		63.3	63.3
36		63.3	63.3
42		63.3	63.3
49		63.3	63.3

TUBELITE
DEPENDABLE
LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS

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

TITLE:
SERIES 400T CURTAIN WALL - SSG
(HVHZ) (IMPACT)

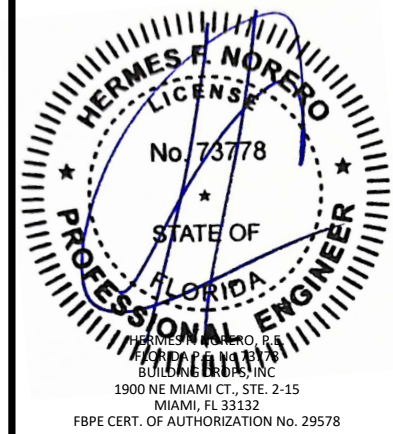
VERTICAL SECTIONS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT., STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
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MULLION UPDATE	DI	2/2024

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FL #: **FL46180**

DATE: **12.19.23**

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

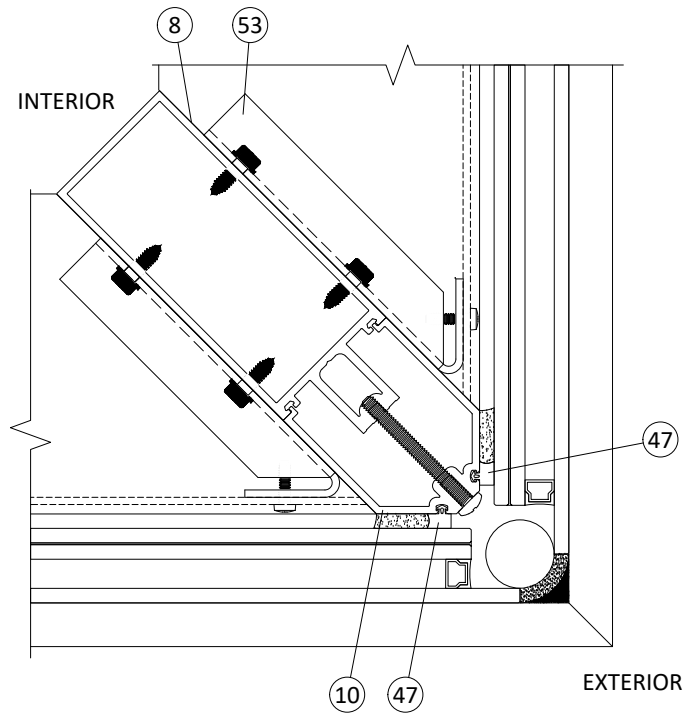
DWG. #: **TLI017**

SECTION
4.4

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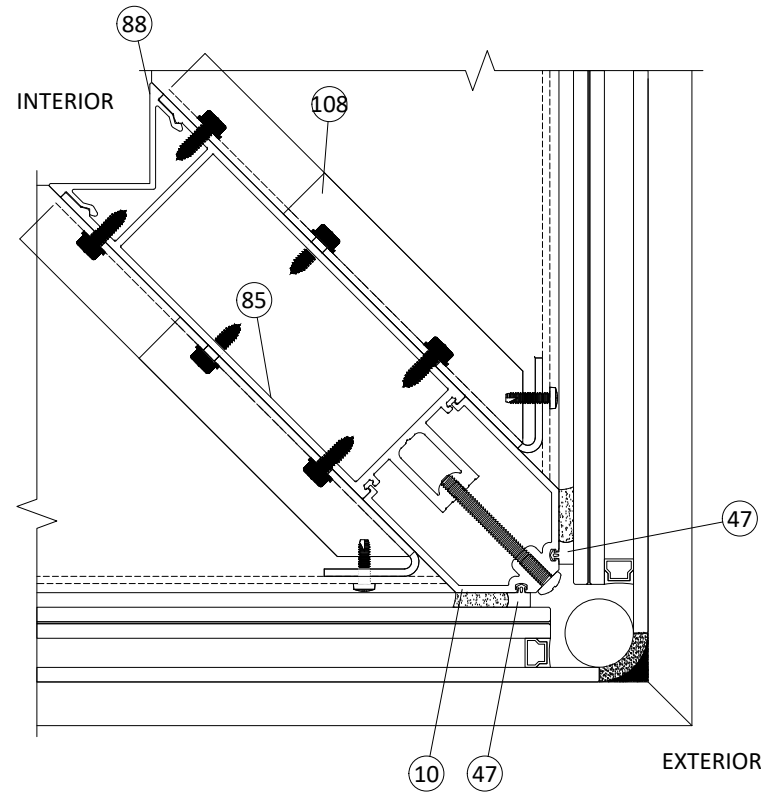
CORNER DETAILS



SEE C1-C3 CAPACITY ON SECTION 4.7

1
4.5

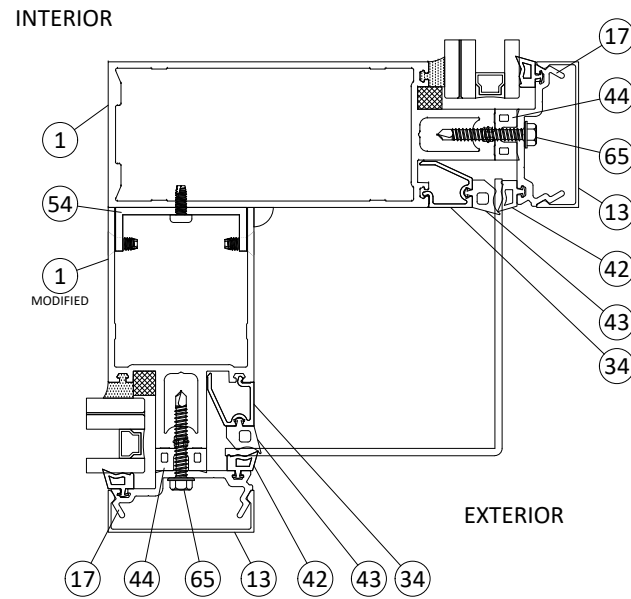
CORNER
STANDARD
90 DEGREE OUTSIDE CORNER



SEE C1-C3 CAPACITY ON SECTION 4.7

1
4.5

CORNER
STANDARD
90 DEGREE OUTSIDE CORNER

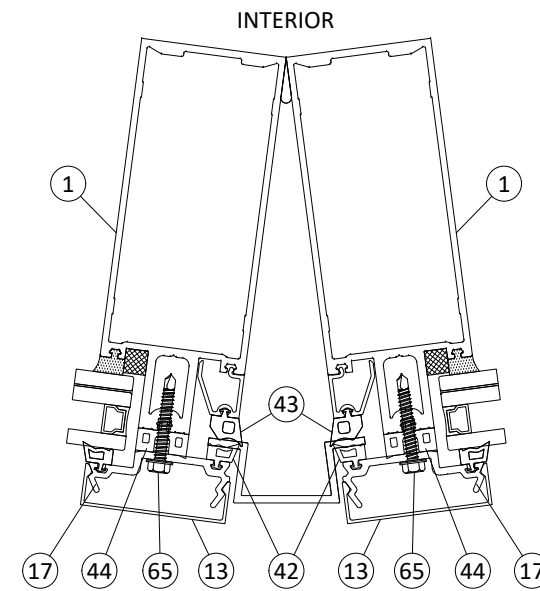


SEE M1 CAPACITY ON SECTION 4.3

2
4.5

CORNER
90 DEGREE OUTSIDE CORNER

SEE J1 CAPACITY ON SECTION 4.3



3
4.5

CORNER
SPLAYED CORNER

NOTE:
 THE 5.5" MULLION IS SHOWN ABOVE. THE 6", 7" & 8" MULLIONS ARE QUALIFIED FOR THE SAME SIZES AND PRESSURES SHOWN ON SECTION 4.7.
 THE 7" & 8" 90 DEGREE ANGLED BACK CORNER MULLIONS ARE QUALIFIED FOR THE SAME SIZES AND PRESSURES SHOWN ON SECTION 4.7.

TUBELITE
 DEPENDABLE
 LEADERS IN ECO-EFFICIENT STOREFRONT,
 CURTAINWALL AND ENTRANCE SYSTEMS

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

TITLE:
 SERIES 400T CURTAIN WALL - SSG
 (HVHZ) (IMPACT)

VERTICAL SECTIONS

PREPARED BY:
 BUILDING DROPS, INC.

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REMARKS	BY	DATE
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FL46180

DATE: **12.19.23**

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

SCALE: **NTS**

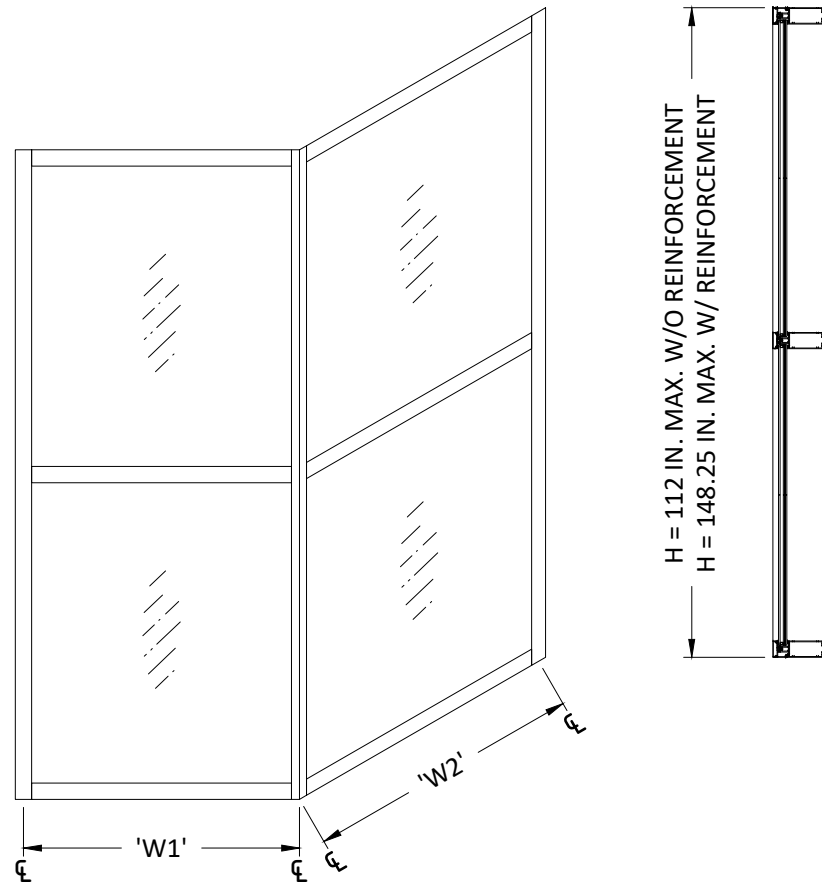
DWG. #: **TLI017**

SECTION
4.5

CORNER MULLION WITH & W/O REINFORCING
SINGLE SPAN WITH HORIZONTAL

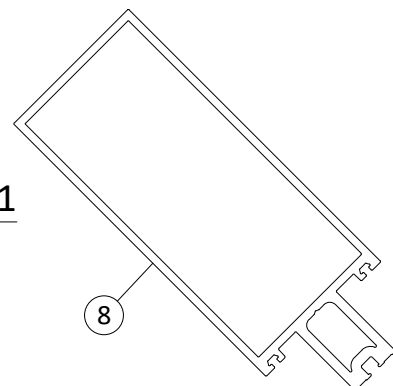
CORNER MULLION CAPACITY

CORNER MULLION WITH REINFORCING
TWIN SPAN WITH HORIZONTAL



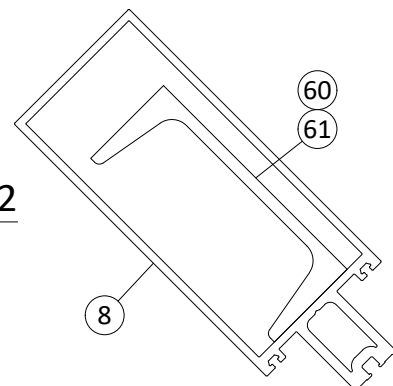
$$W = \frac{W1 + W2}{2}$$

CASE 1



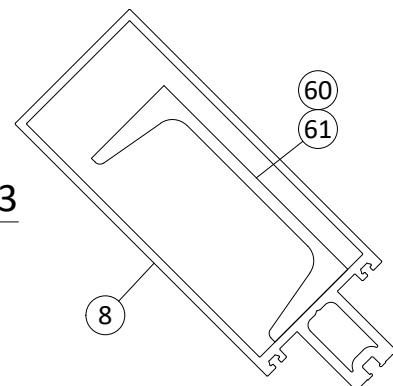
C1

CASE 2



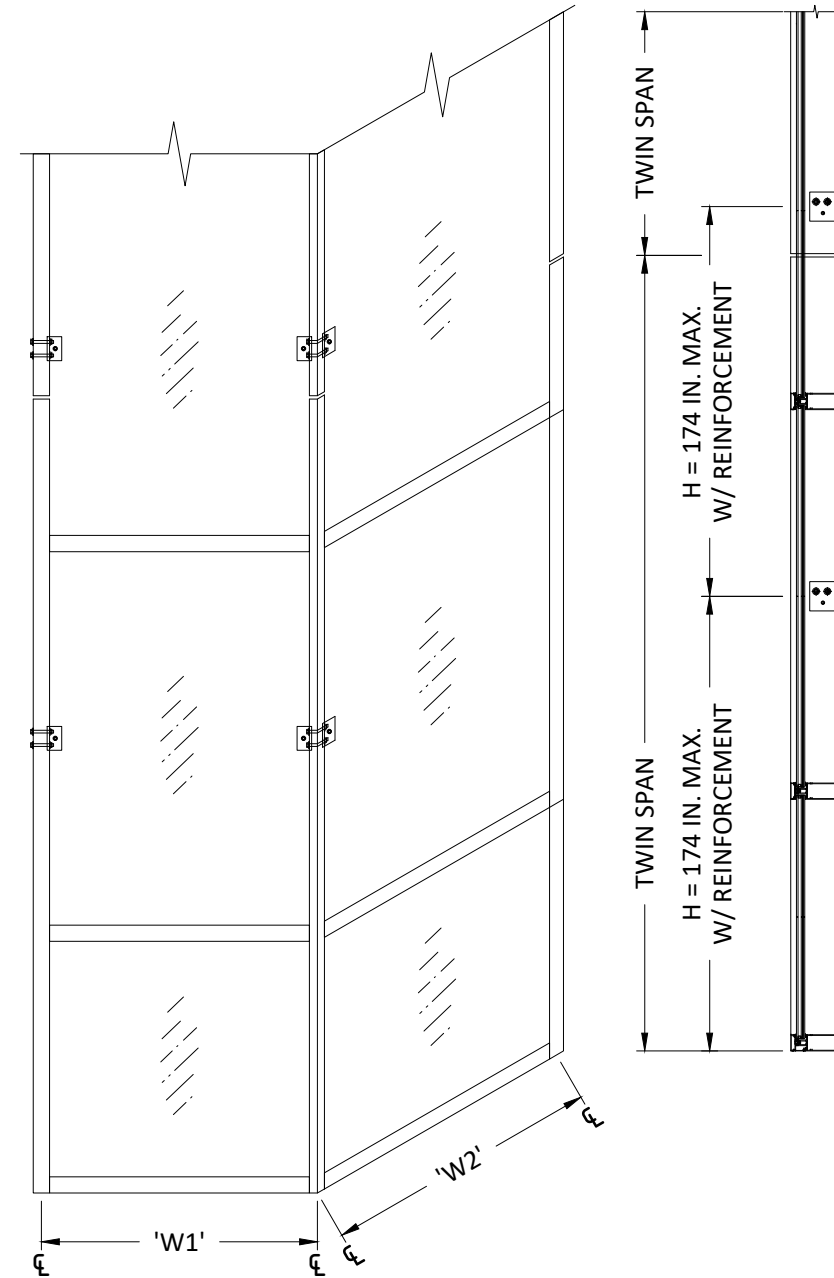
C2

CASE 3



C3

NOTE:
THE 5.5" MULLION IS SHOWN ABOVE. THE 6", 7" & 8" MULLIONS ARE QUALIFIED FOR THE SAME SIZES AND PRESSURES SHOWN ON SECTION 4.7.
THE 7" & 8" 90 DEGREE ANGLED BACK CORNER MULLIONS ARE QUALIFIED FOR THE SAME SIZES AND PRESSURES SHOWN ON SECTION 4.7.



NOTE:
USE 'F' ANCHOR CLIP AT JAMB AND 'T' ANCHOR CLIP AT MULLION. SEE SECTION 7 FOR DETAILS

CASE 1: SINGLE SPAN WITH UNREINFORCED MULLION
CASE 2: SINGLE SPAN WITH REINFORCED MULLION
CASE 3: TWIN SPAN WITH REINFORCED MULLION

TUBELITE
DEPENDABLE
LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS

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

TITLE:
SERIES 400T CURTAIN WALL - SSG
(HVHZ) (IMPACT)

VERTICAL SECTIONS

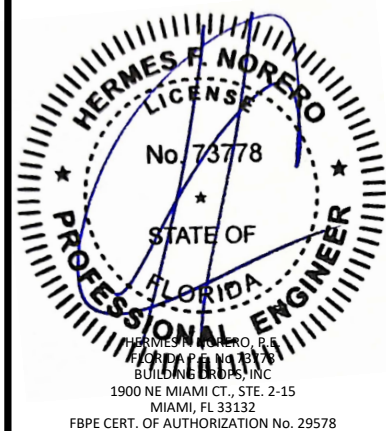
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SECTION

4.6

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CORNER MULLION CAPACITY

DESIGN PRESSURE TABLE (PSF)			
TRIBUTARY WIDTH (INCH)	SPAN HEIGHT (INCH)	CASE 1	CASE 2
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
24	90	70.0	90.0
30		70.0	90.0
36		70.0	90.0
42		70.0	90.0
49		70.0	90.0
24	96	70.0	90.0
30		70.0	90.0
36		70.0	90.0
42		70.0	90.0
49		70.0	90.0
24	102	70.0	90.0
30		70.0	90.0
36		70.0	90.0
42		70.0	90.0
49		70.0	90.0
24	108	70.0	90.0
30		70.0	90.0
36		70.0	90.0
42		70.0	90.0
49		70.0	90.0
24	112	70.0	90.0
30		70.0	90.0
36		70.0	90.0
42		70.0	90.0
49		70.0	90.0
24	120	-	90.0
30		-	90.0
36		-	90.0
42		-	90.0
49		-	90.0

DESIGN PRESSURE TABLE (PSF)		
TRIBUTARY WIDTH (INCH)	SPAN HEIGHT (INCH)	CASE 2
		EXT. (+) INT. (-)
24	126	90.0
30		90.0
36		90.0
42		90.0
49		90.0
24	132	90.0
30		90.0
36		90.0
42		90.0
49		90.0
24	138	90.0
30		90.0
36		90.0
42		90.0
49		90.0
24	144	90.0
30		90.0
36		90.0
42		90.0
49		90.0
24	148.25	90.0
30		90.0
36		90.0
42		90.0
49		90.0

DESIGN PRESSURE TABLE (PSF)		
TRIBUTARY WIDTH (INCH)	SPAN HEIGHT (INCH)	CASE 3
		EXT. (+) INT. (-)
24	90	63.3
30		63.3
36		63.3
42		63.3
49		63.3
24	96	63.3
30		63.3
36		63.3
42		63.3
49		63.3
24	102	63.3
30		63.3
36		63.3
42		63.3
49		63.3
24	108	63.3
30		63.3
36		63.3
42		63.3
49		63.3
24	114	63.3
30		63.3
36		63.3
42		63.3
49		63.3
24	120	63.3
30		63.3
36		63.3
42		63.3
49		63.3
24	126	63.3
30		63.3
36		63.3
42		63.3
49		63.3
24	132	63.3
30		63.3
36		63.3
42		63.3
49		63.3

DESIGN PRESSURE TABLE (PSF)		
TRIBUTARY WIDTH (INCH)	SPAN HEIGHT (INCH)	CASE 3
		EXT. (+) INT. (-)
24	138	63.3
30		63.3
36		63.3
42		63.3
49		63.3
24	144	63.3
30		63.3
36		63.3
42		63.3
49		63.3
24	150	63.3
30		63.3
36		63.3
42		63.3
49		63.3
24	156	63.3
30		63.3
36		63.3
42		63.3
49		63.3
24	162	63.3
30		63.3
36		63.3
42		63.3
49		63.3
24	168	63.3
30		63.3
36		63.3
42		63.3
49		63.3
24	174	63.3
30		63.3
36		63.3
42		63.3
49		63.3

TUBELITE
DEPENDABLE
LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS

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

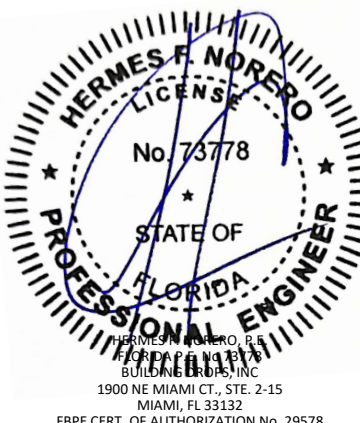
TITLE:
SERIES 400T CURTAIN WALL - SSG
(HVHZ) (IMPACT)
VERTICAL SECTIONS

PREPARED BY:
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REMARKS	BY	DATE
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FL #:
FL46180

DATE: **12.19.23**

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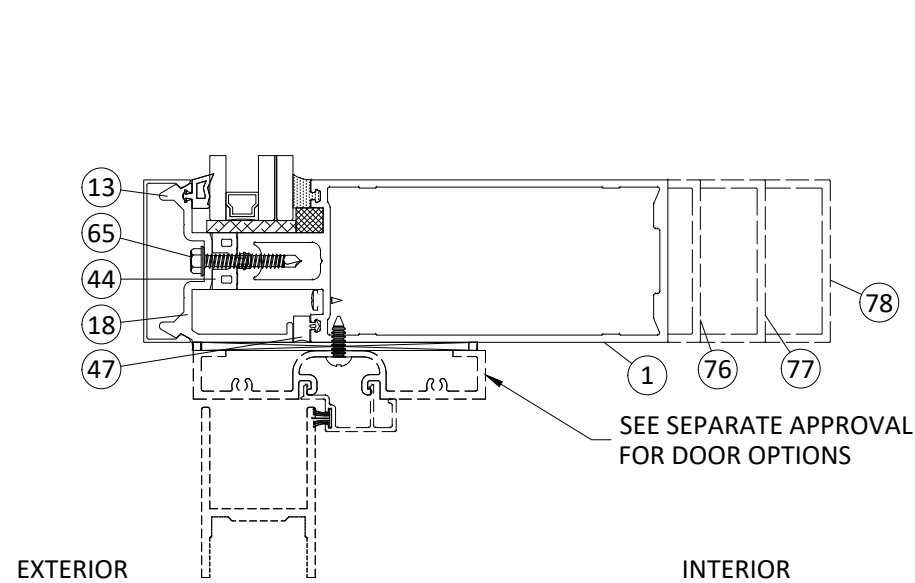
SCALE: **NTS**

DWG. #: **TLI017**

SECTION
4.7

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DOOR SECTION DETAILS



EXTERIOR

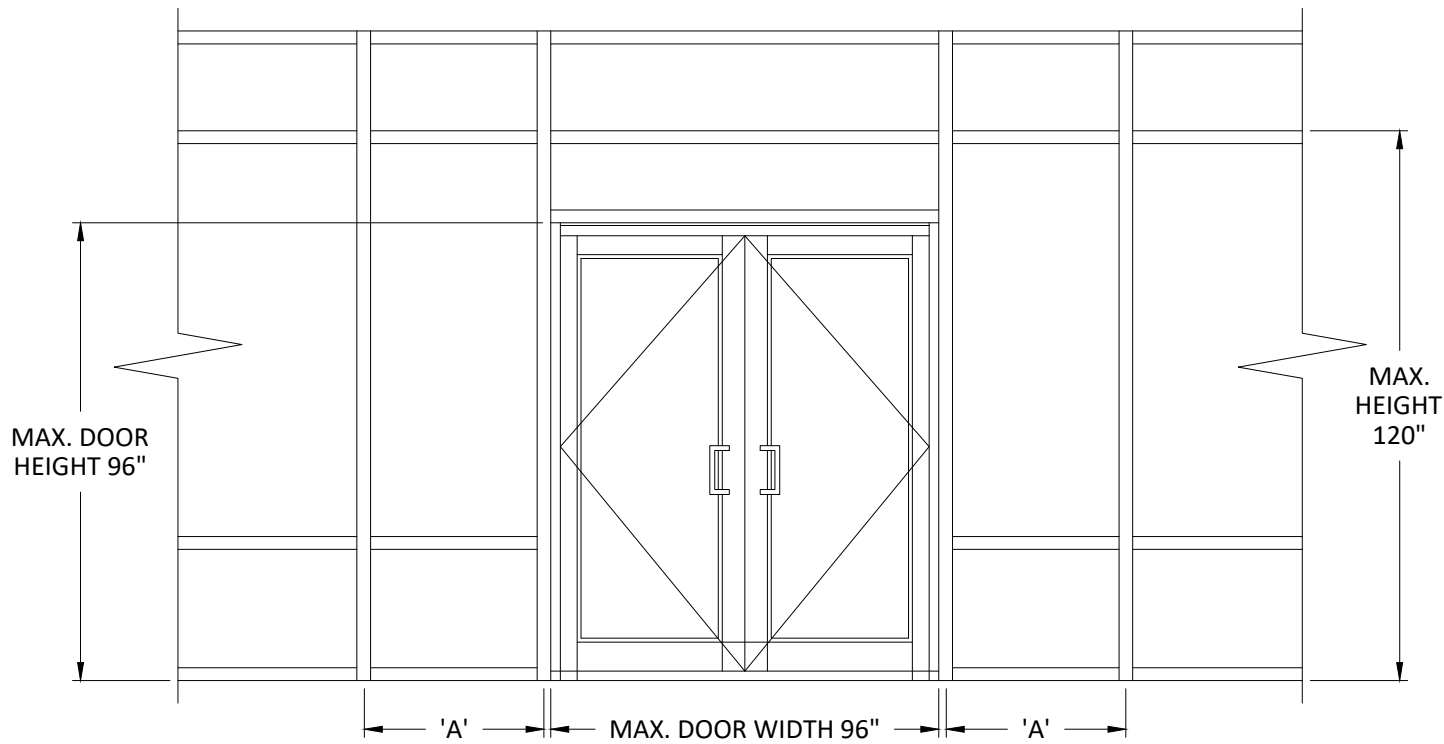
INTERIOR

SEE SEPARATE APPROVAL FOR DOOR OPTIONS

1
5.0

DOOR HEAD

WITH TRANSOM
STANDARD

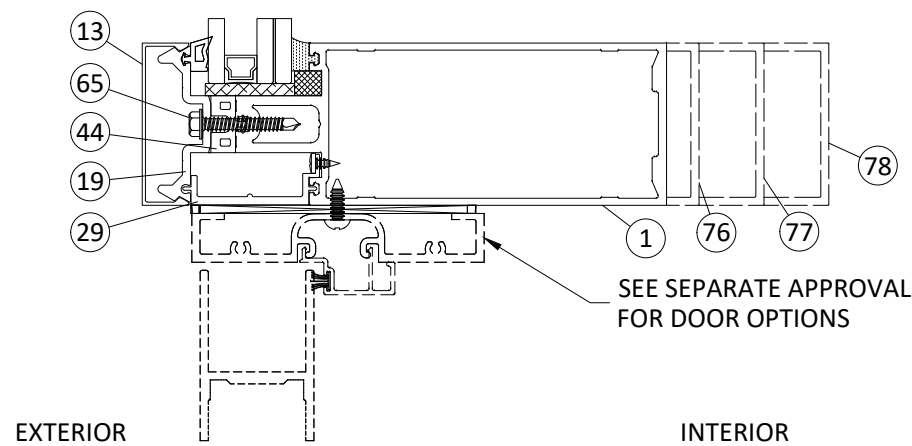


MAX. DOOR
HEIGHT 96"

MAX.
HEIGHT
120"

'A' MAX. DOOR WIDTH 96" 'A'

SIDELITE WIDTH "A"	DESIGN PRESSURE (PSF)
48.75	+63.3 / -63.3



EXTERIOR

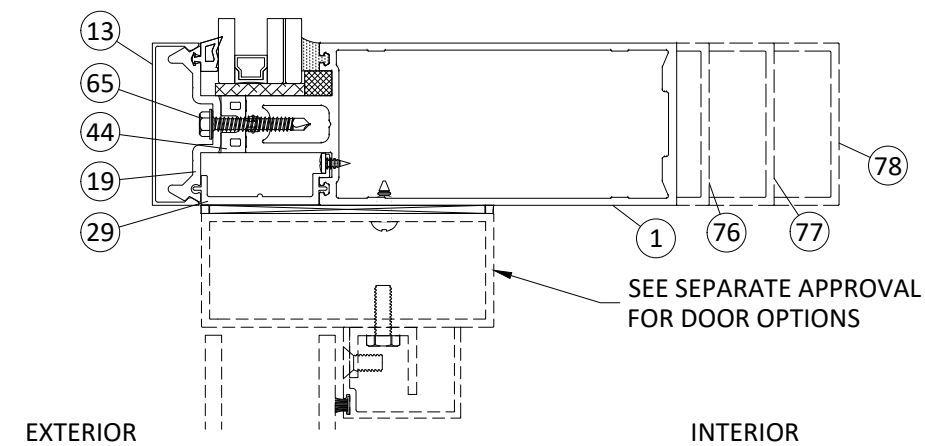
INTERIOR

SEE SEPARATE APPROVAL FOR DOOR OPTIONS

2
5.0

DOOR HEAD

WITH TRANSOM
WITH PVC/ALUMINUM FILLER



EXTERIOR

INTERIOR

SEE SEPARATE APPROVAL FOR DOOR OPTIONS

3
5.0

DOOR HEAD

WITH TRANSOM
OHCC HEAD

TUBELITE
DEPENDABLE

LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS

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

TITLE:
SERIES 400T CURTAIN WALL - SSG
(HVHZ) (IMPACT)

DOOR SECTION DETAILS

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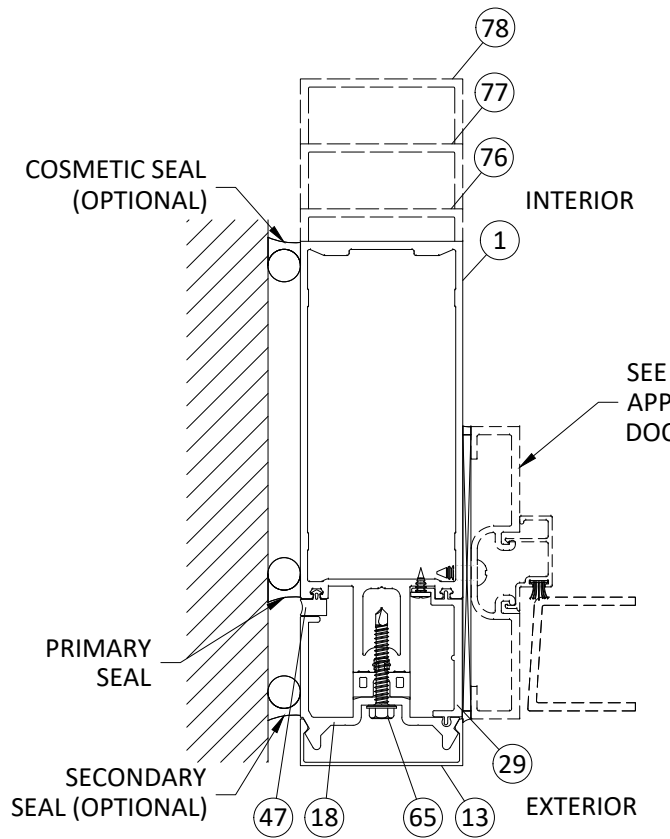
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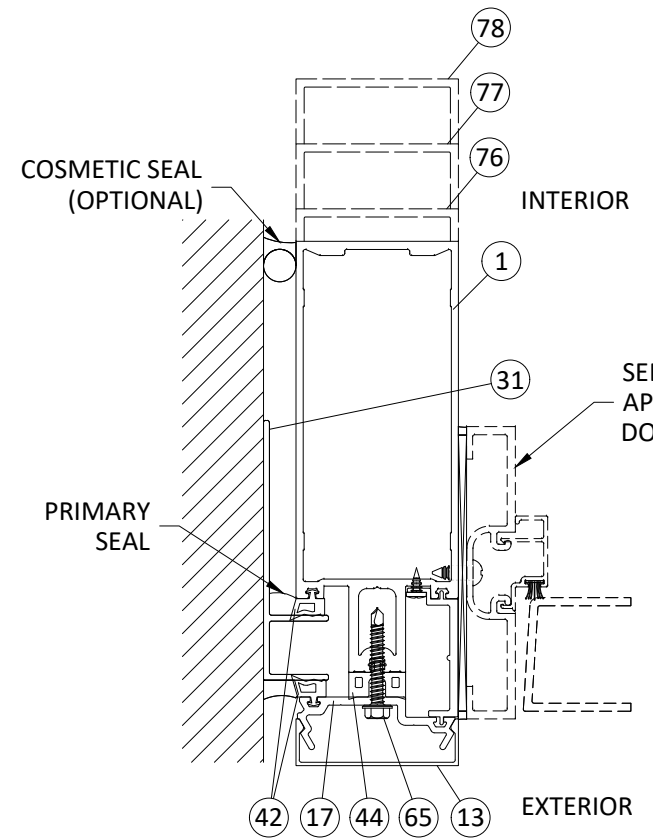
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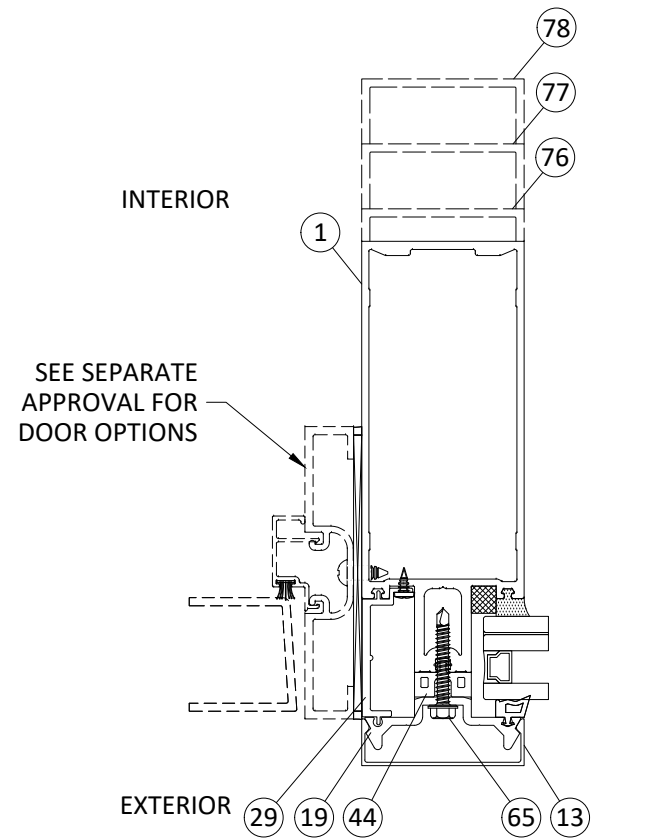
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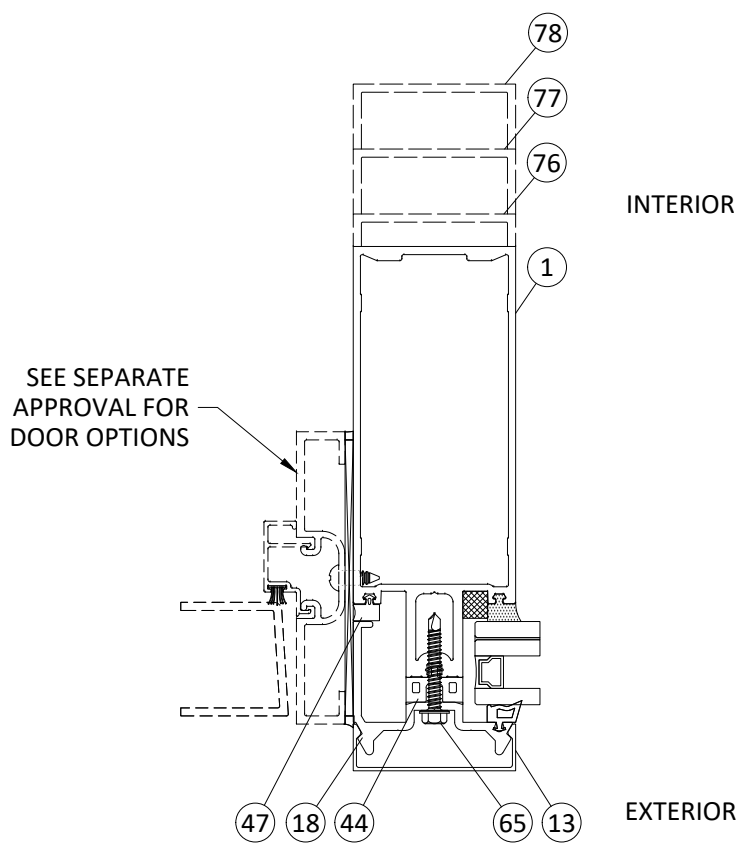
1
5.1
DOOR JAMB
STANDARD
WITH VINYL/ALUMINUM POCKET CLOSER



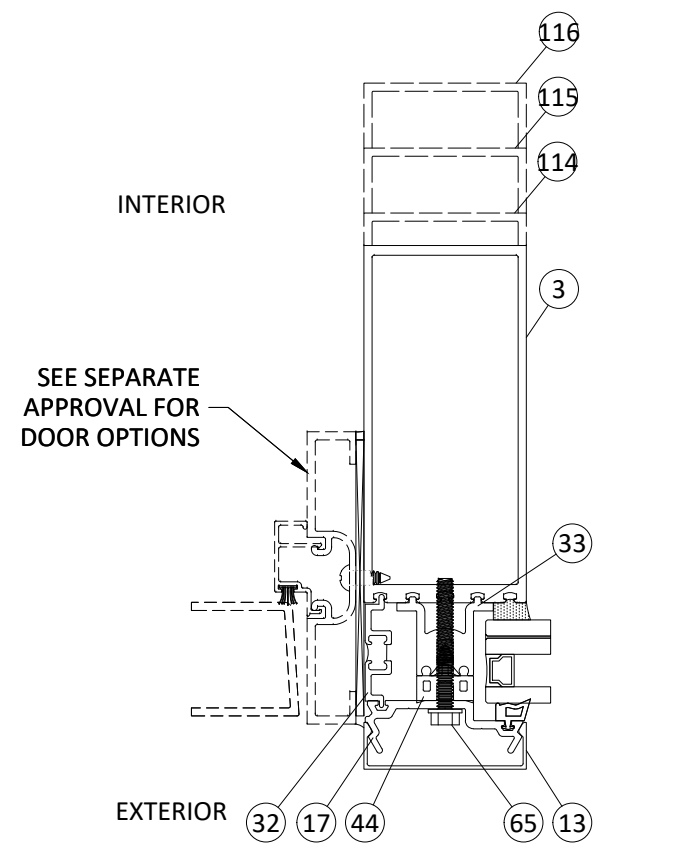
2
5.1
DOOR JAMB
PERIMETER F-ANCHOR
WITH VINYL/ALUMINUM POCKET CLOSER



3
5.1
DOOR JAMB
AT SIDELITE
WITH VINYL/ALUMINUM POCKET CLOSER



4
5.1
DOOR JAMB
AT SIDELITE
WITH PERIMETER PRESSURE PLATE



5
5.1
DOOR JAMB
AT SIDELITE
WITH THERMAL POCKET FILLER

TUBELITE
DEPENDABLE
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CURTAINWALL AND ENTRANCE SYSTEMS

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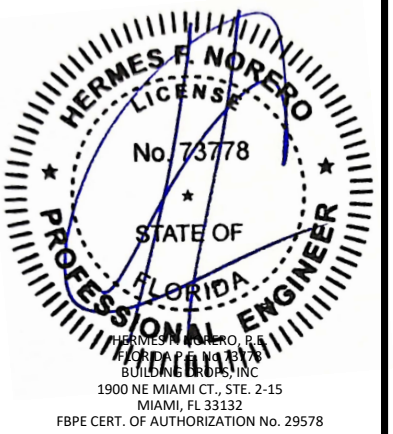
DOOR SECTION DETAILS

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FL #:
FL46180

DATE: **12.19.23**

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

SCALE: **NTS**

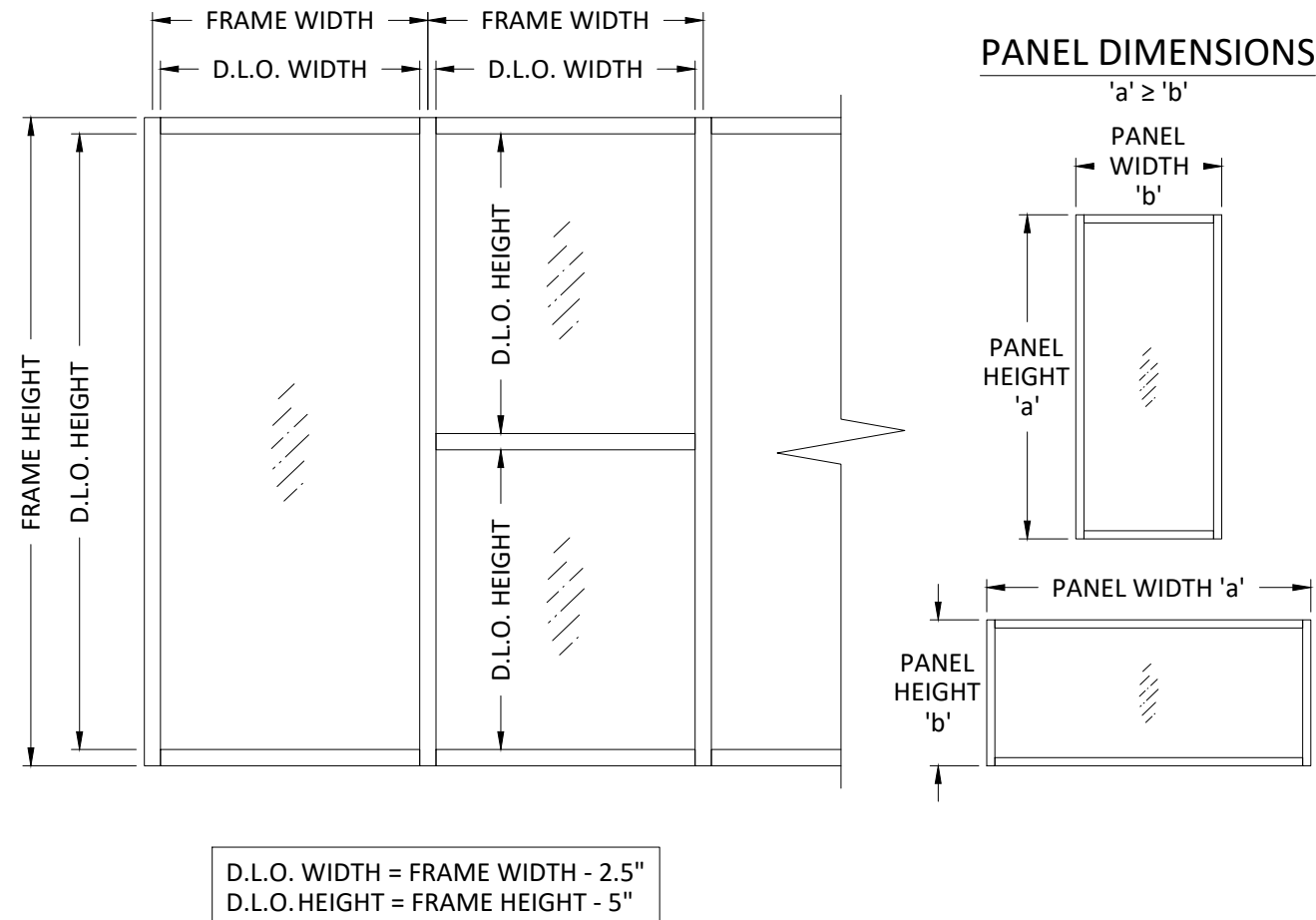
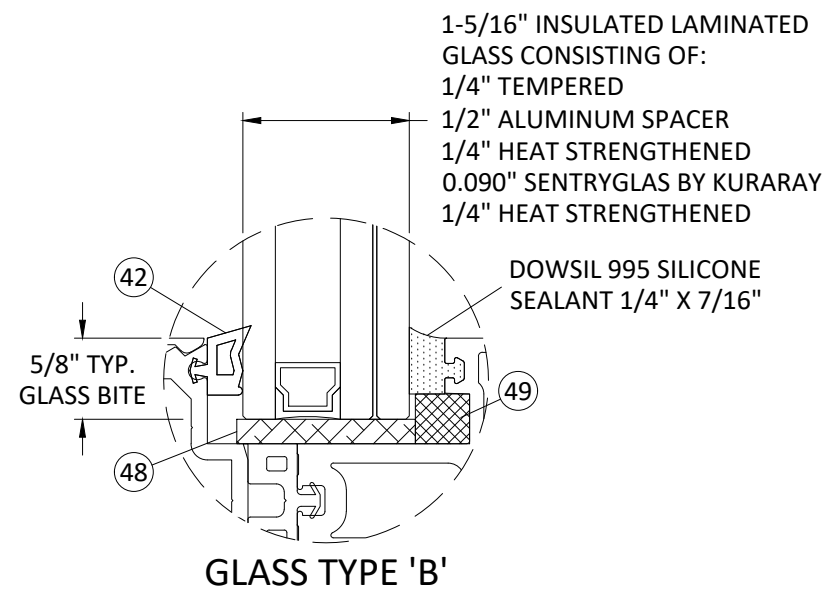
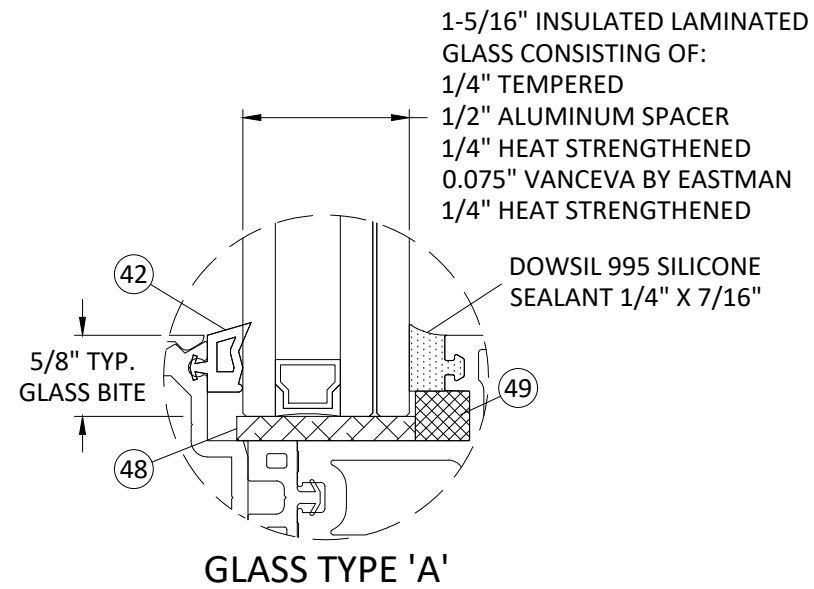
DWG. #: **TLI017**

SECTION
5.1

GLAZING DETAILS AND CAPACITY (L.M.I.)

TUBELITE
 DEPENDABLE
 LEADERS IN ECO-EFFICIENT STOREFRONT,
 CURTAINWALL AND ENTRANCE SYSTEMS

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



GLAZING NOTES:

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

TITLE: SERIES 400T CURTAIN WALL - SSG (HVHZ) (IMPACT)

GLAZING DETAILS

PREPARED BY: BUILDING DROPS, INC.

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



REMARKS	BY	DATE
MULLION UPDATE	DI	2/2024

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SECTION
6.0

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GLAZING DETAILS AND CAPACITY (L.M.I.)

GLASS LOAD CAPACITY (PSF)			
NOMINAL DIMS.		TYPE 'A'	TYPE 'B'
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
21.5	67	90.0	90.0
27.5		90.0	90.0
33.5		87.9	87.9
39.5		74.5	74.5
46.5		63.3	63.3
21.5	73	90.0	90.0
27.5		90.0	90.0
33.5		87.9	87.9
39.5		74.5	74.5
46.5		63.3	63.3
21.5	79	90.0	90.0
27.5		90.0	90.0
33.5		87.9	87.9
39.5		74.5	74.5
46.5		63.3	63.3
21.5	85	90.0	90.0
27.5		90.0	90.0
33.5		87.9	87.9
39.5		74.5	74.5
46.5		63.3	63.3
21.5	91	90.0	90.0
27.5		90.0	90.0
33.5		86.6	86.6
39.5		74.5	74.5
46.5		63.3	63.3
21.5	97	90.0	90.0
27.5		90.0	90.0
33.5		85.4	85.4
39.5		74.5	74.5
46.5		63.3	63.3
21.5	103	90.0	90.0
27.5		90.0	90.0
33.5		84.3	84.3
39.5		74.1	74.1
46.5		63.3	63.3

GLASS LOAD CAPACITY (PSF)			
NOMINAL DIMS.		TYPE 'A'	TYPE 'B'
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
21.5	109	90.0	90.0
27.5		90.0	90.0
33.5		83.4	83.4
39.5		73.2	73.2
46.5		63.3	63.3
21.5	115	90.0	90.0
27.5		90.0	90.0
33.5		82.7	82.7
39.5		72.3	72.3
46.5		63.3	63.3
21.5	118.5	90.0	90.0
27.5		90.0	90.0
33.5		82.3	82.3
39.5		71.9	71.9
46.5		63.3	63.3
21.5	121	90.0	90.0
27.5		90.0	90.0
33.5		82.0	82.0
39.5		71.6	71.6
46.5		63.3	63.3
21.5	127	90.0	90.0
27.5		90.0	90.0
33.5		81.4	81.4
39.5		70.9	70.9
46.5		63.3	63.3
21.5	133	90.0	90.0
27.5		90.0	90.0
33.5		80.8	80.8
39.5		70.3	70.3
46.5		63.3	63.3
21.5	139	90.0	90.0
27.5		90.0	90.0
33.5		80.3	80.3
39.5		69.8	69.8
46.5		63.3	63.3
21.5	143.25	90.0	90.0
27.5		90.0	90.0
33.5		80.0	80.0

NOTES:

- CHART VALUES PROVIDE MAXIMUM DESIGN PRESSURES ACCORDING TO ASTM E1300 FOR GIVEN GLASS DIMENSIONS 'a' AND 'b' (a ≥ b, REFER TO DIAGRAM ON SECTION 6.0), AND CH. 17 OF THE FBC FOR SIZES OTHER THAN TESTED
- DO NOT EXCEED MULLION CAPACITY SELECTED OR ANCHOR CAPACITY IN DESIGN PRESSURE CHARTS

TUBELITE®
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 CURTAINWALL AND ENTRANCE SYSTEMS

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

TITLE:
 SERIES 400T CURTAIN WALL - SSG
 (HVHZ) (IMPACT)
 GLAZING DETAILS

PREPARED BY:
 BUILDING DROPS, INC.

1900 NE MIAMI CT., STE. 2-15
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 PH: (954)399-8478
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REMARKS	BY	DATE
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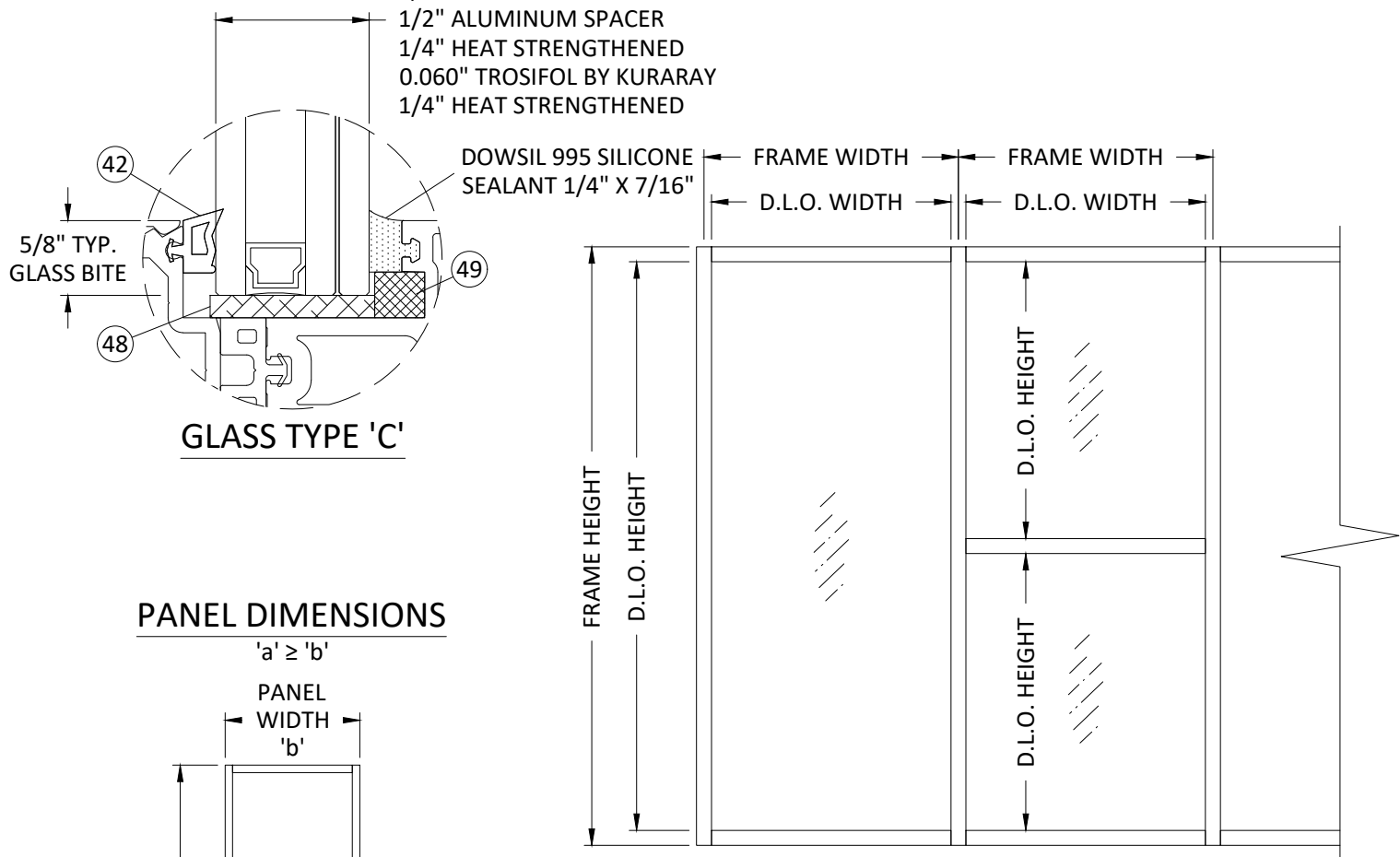
SCALE: **NTS**

DWG. #: **TLI017**

SECTION
6.1

GLAZING DETAILS AND CAPACITY (S.M.I.)

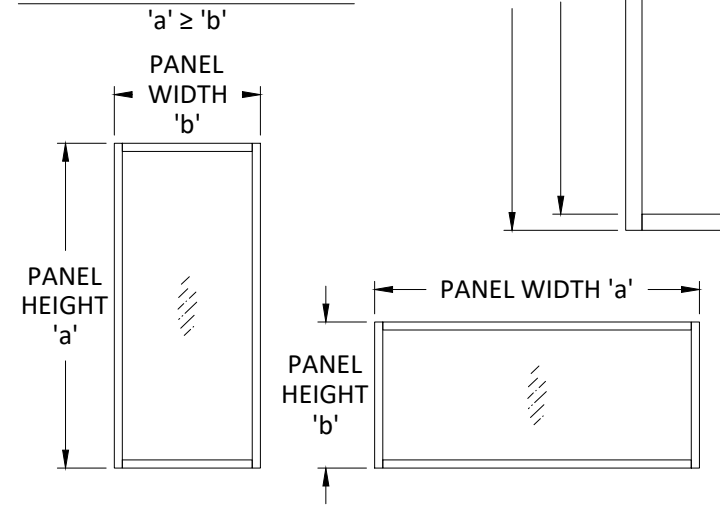
1-5/16" INSULATED LAMINATED GLASS CONSISTING OF:
 1/4" TEMPERED
 1/2" ALUMINUM SPACER
 1/4" HEAT STRENGTHENED
 0.060" TROSIFOL BY KURARAY
 1/4" HEAT STRENGTHENED



GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMS.		TYPE 'C'
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+) INT. (-)
21.5	67	90.0
27.5		90.0
33.5		87.9
39.5		74.5
46.5		63.3
21.5	73	90.0
27.5		90.0
33.5		87.9
39.5		74.5
46.5		63.3
21.5	79	90.0
27.5		90.0
33.5		87.9
39.5		74.5
46.5		63.3
21.5	85	90.0
27.5		90.0
33.5		87.9
39.5		74.5
46.5		63.3
21.5	91	90.0
27.5		90.0
33.5		86.6
39.5		74.5
46.5		63.3
21.5	97	90.0
27.5		90.0
33.5		85.4
39.5		74.5
46.5		63.3
21.5	103	90.0
27.5		90.0
33.5		84.3
39.5		74.1
46.5		63.3

GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMS.		TYPE 'C'
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+) INT. (-)
21.5	109	90.0
27.5		90.0
33.5		83.4
39.5		73.2
46.5		63.3
21.5	115	90.0
27.5		90.0
33.5		82.7
39.5		72.3
46.5		63.3
21.5	118.5	90.0
27.5		90.0
33.5		82.3
39.5		71.9
46.5		63.3
21.5	121	90.0
27.5		90.0
33.5		82.0
39.5		71.6
46.5		63.3
21.5	127	90.0
27.5		81.4
33.5		70.9
39.5		70.9
46.5		63.3
21.5	133	90.0
27.5		80.8
33.5		70.3
39.5		70.3
46.5		63.3
21.5	139	90.0
27.5		90.0
33.5		80.3
39.5		69.8
46.5		63.3
21.5	143.25	90.0
27.5		90.0
33.5		80.0
39.5		80.0
46.5		80.0

PANEL DIMENSIONS



D.L.O. WIDTH = FRAME WIDTH - 2.5"
 D.L.O. HEIGHT = FRAME HEIGHT - 5"

GLAZING NOTES:

- GLASS TYPE & THICKNESS COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
- SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
- SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
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NOTES:

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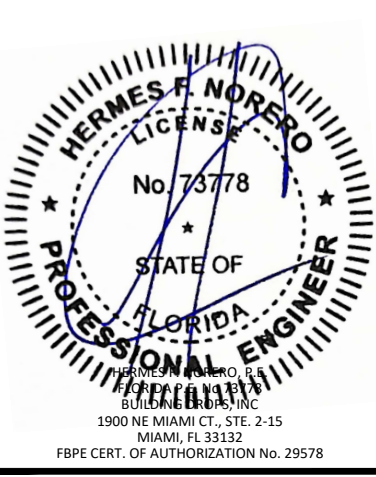
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3056 WALKER RIDGE DRIVE N.W.
 WALKER, MICHIGAN 49544
 PH: 800 866 2227 FX: 616 301 0008

TITLE: SERIES 400T CURTAIN WALL - SSG (HVHZ) (IMPACT)
 GLAZING DETAILS
 PREPARED BY: BUILDING DROPS, INC.
 1900 NE MIAMI CT., STE. 2-15
 MIAMI, FL 33132
 PH: (954)399-8478
 FAX: (954)744-4738
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REMARKS	BY	DATE
MULLION UPDATE	DI	2/2024

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SCALE: **NTS**

DWG. #: **TLI017**

SECTION **6.2**

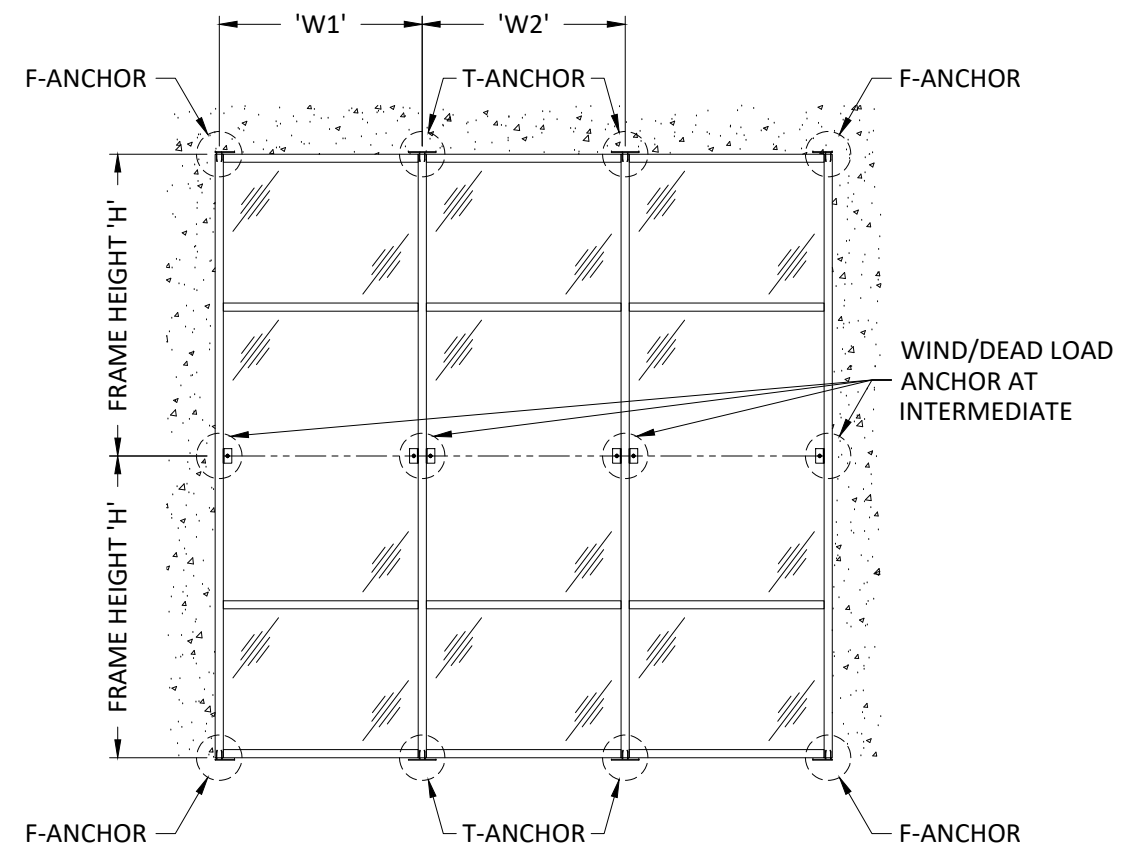
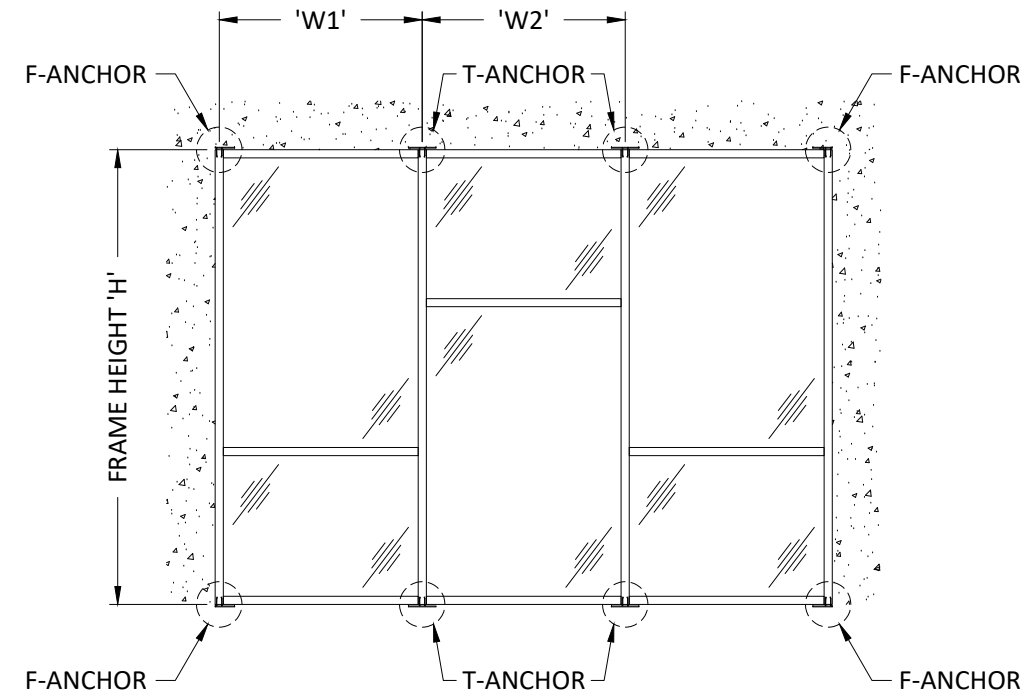
ANCHOR DETAILS

TYPE	DIAMETER	ANCHOR TYPE	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
A	1/4"	ULTRACON+	UNCRACKED CONCRETE, MIN. F'C = 3000 PSI	1-3/4"	2-3/4"
B	3/8"	HILTI KWIK BOLT TZ2	UNCRACKED CONCRETE, MIN. F'C = 3000 PSI	2-1/2"	3-7/8"
C	3/8"	LAG SCREW	2X WOOD, MIN. S.G. = 0.55	1-1/2"	1"
D	3/8"	GRADE 5 SELF-DRILLING/SELF-TAPPING SCREW	18 GA. (0.478") MIN. STEEL STUD, Fy = 33 KSI, OR 0.08" MIN. 6063-T5 ALUMINUM	3 THREADS MIN. ENGAGEMENT	3/4"
E	1/2"	SCREW-BOLT+	UNCRACKED CONCRETE, MIN. F'C = 3000 PSI	3"	5"
F	1/2"	HILTI KWIK BOLT TZ2	UNCRACKED CONCRETE, MIN. F'C = 3000 PSI	3-3/4"	4-1/4"
G	1/2"	LAG SCREW	2X WOOD, MIN. S.G. = 0.55	2"	1"
H	1/2"	GRADE 5 SELF-DRILLING/SELF-TAPPING SCREW	1/4" MIN. STEEL STUD, Fu = 55 KSI, OR 3/8" MIN. 6063-T5 ALUMINUM	3 THREADS MIN. ENGAGEMENT	1-1/2"

NOTE:

- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- REFER TO ANCHOR LAYOUTS AT RIGHT FOR LOCATIONS AND DETERMINING MAX. FRAME HEIGHT (H) AND TRIBUTARY WIDTHS (W).
- FOR SITE CONDITIONS NOT SHOWN IN THE DETAILS HEREIN OR EDGE DISTANCE REQUIREMENTS TO BE MODIFIED, ANCHORS MAY BE ENGINEERED ON A SITE SPECIFIC BASIS.
- REFER TO SECTION 7 FOR ANCHOR CONFIGURATIONS, T & F ANCHOR TYPE, AND CAPACITIES.
- REFER TO SECTION 8 FOR WIND/DEAD LOAD ANCHOR CONFIGURATIONS, TYPE, AND CAPACITIES.

MULLION SPACING OR BAY WIDTH, 'W', FOR F-ANCHORS AT JAMBS	W1
MULLION SPACING OR BAY WIDTH, 'W', FOR T-ANCHORS	$\frac{W1 + W2}{2}$
MULLION SPACING OR BAY WIDTH, 'W', FOR F-ANCHORS AT VERTICAL MULL WITH DOORS	$\frac{W1 + W2}{2}$



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

TITLE:
SERIES 400T CURTAIN WALL - SSG (HVHZ) (IMPACT)

ANCHOR DETAILS

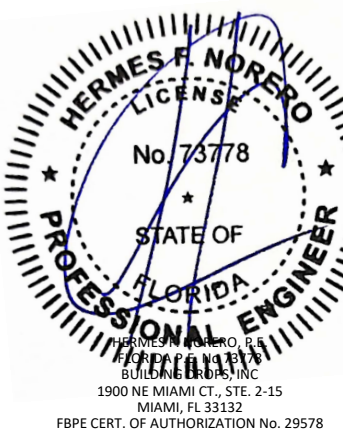
PREPARED BY:
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REMARKS	BY	DATE
MULLION UPDATE	DI	2/2024

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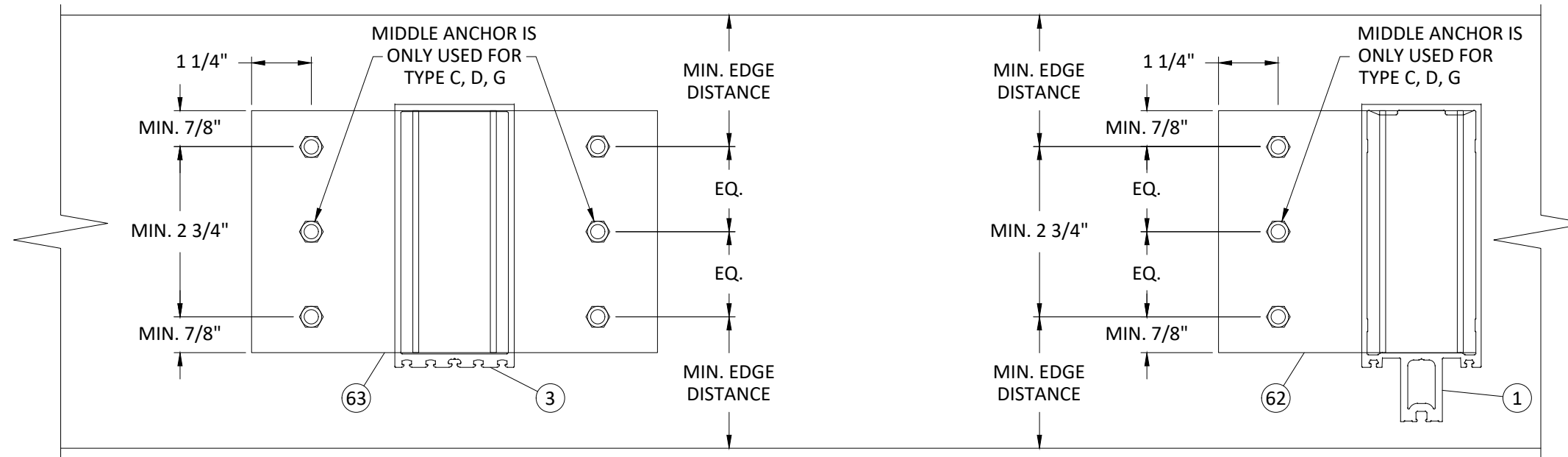
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SCALE: **NTS**

DWG. #: **TLI017**

SECTION
7.0

ANCHOR DETAILS



1
7.1

ANCHOR
T-ANCHOR

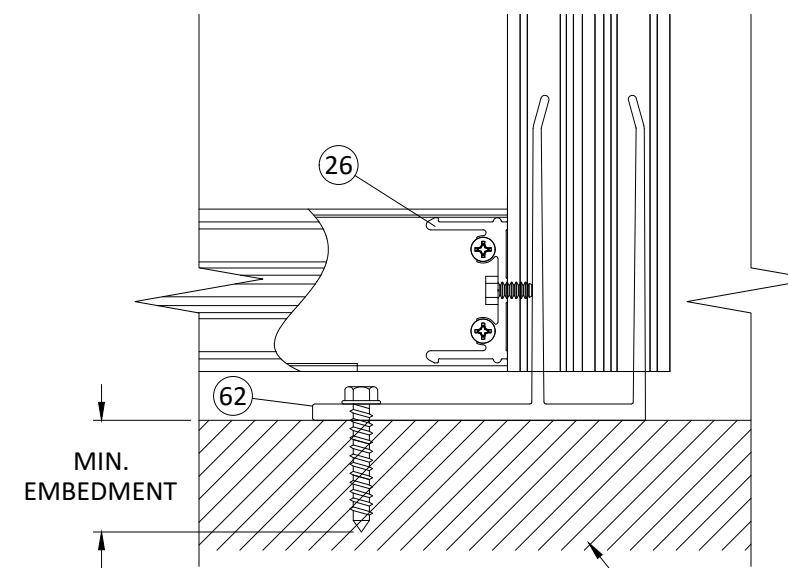
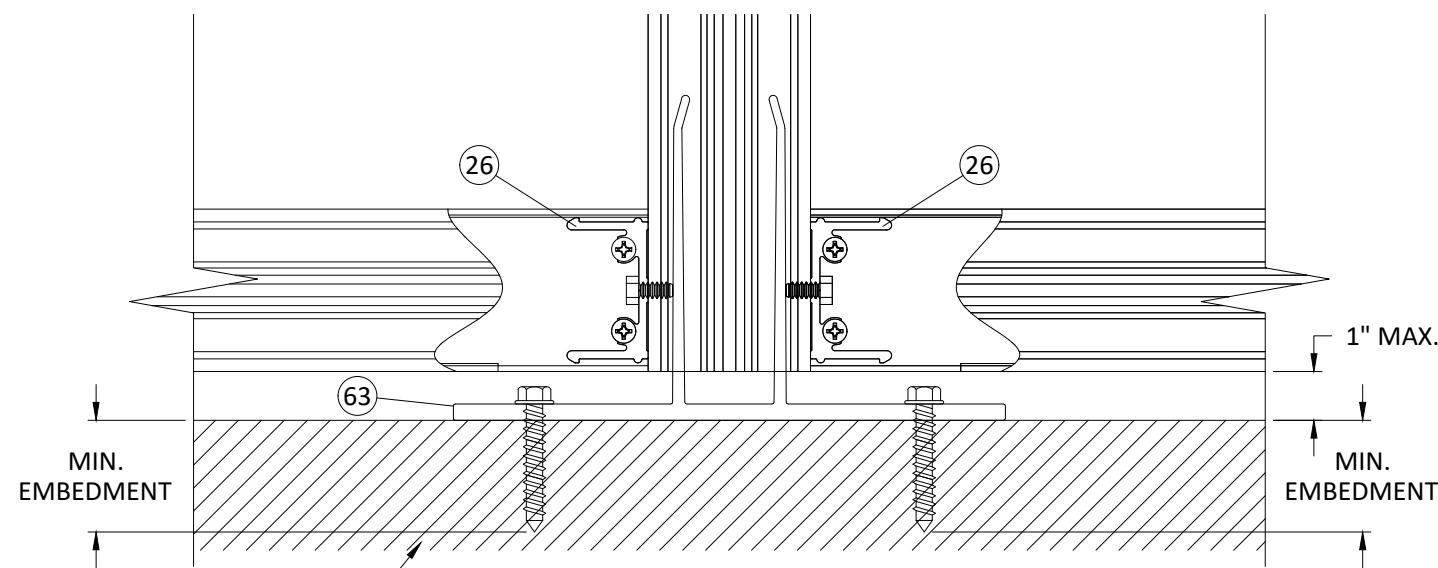
ANCHORAGE DETAILS APPLY FOR ALL EXTRUSIONS SHOWN ON SECTIONS 3 & 4

2
7.1

ANCHOR
F-ANCHOR

NOTE:

1. ANCHORS SHOWN HEREIN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL ANCHOR IDENTIFICATION SHALL BE PER ANCHOR MANUFACTURERS INSTALLATION INSTRUCTIONS.
2. ANCHOR BOLT EXTENSIONS MAY BE CLIPPED TO T.O. HEX NUT AND SHEAR BLOCKS MAY BE NOTCHED TO ALLOW FOR ANCHOR CLEARANCE.
3. REFER TO INSTALLATION ANCHOR REQUIREMENTS FOR MINIMUM EDGE DISTANCES, EMBEDMENTS, & PROPERTIES OF OPENING SUBSTRATE.



CONCRETE, WOOD OR STEEL SUBSTRATE BY OTHERS, SEE INSTALLATION REQUIREMENTS ON SECTION 7.0

EXTERIOR VIEW
T-ANCHOR (TYPICAL)

EXTERIOR VIEW
F-ANCHOR (TYPICAL)

CONCRETE, WOOD OR STEEL SUBSTRATE BY OTHERS, SEE INSTALLATION REQUIREMENTS ON SECTION 7.0

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

TITLE:
SERIES 400T CURTAIN WALL - SSG (HVHZ) (IMPACT)

ANCHOR DETAILS

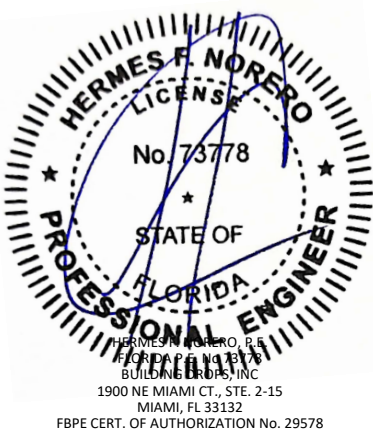
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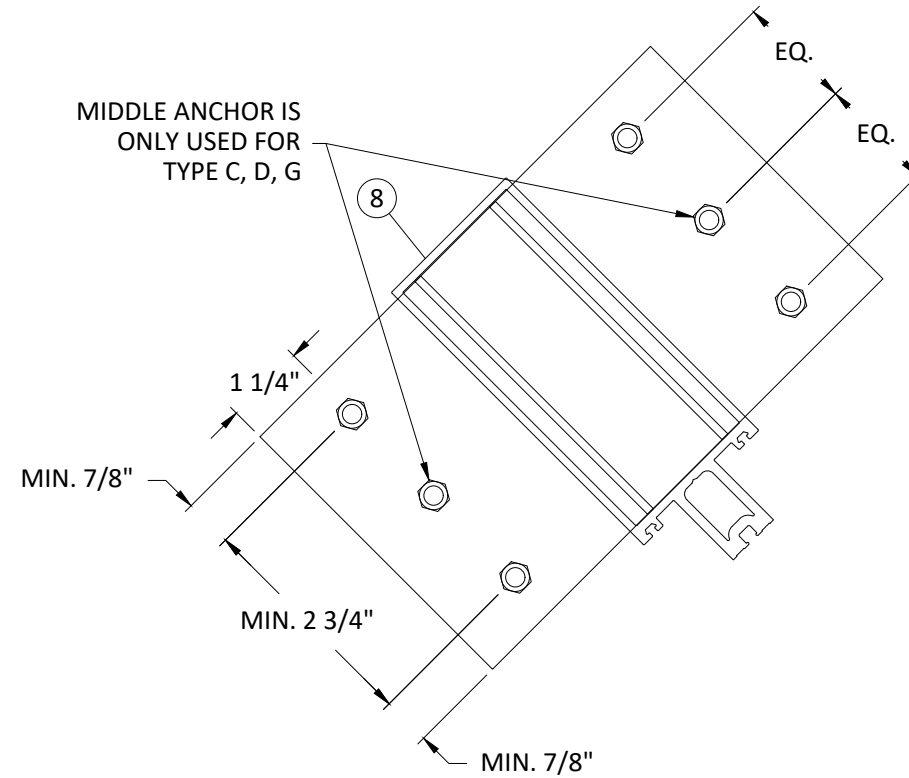
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SECTION

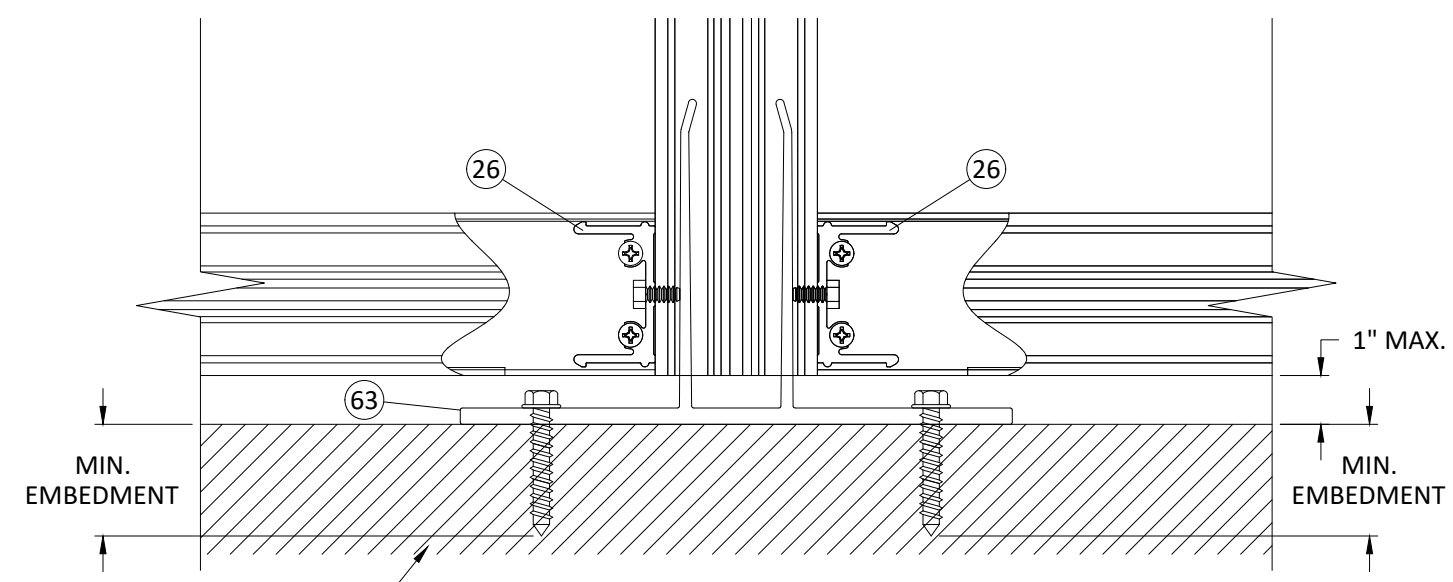
7.1

ANCHOR DETAILS



ANCHORAGE DETAILS APPLY FOR ALL EXTRUSIONS SHOWN ON SECTIONS 3 & 4

1
7.2 ANCHOR
T-ANCHOR



CONCRETE, WOOD OR STEEL SUBSTRATE BY OTHERS, SEE INSTALLATION REQUIREMENTS ON SECTION 7.0
CORNER EXTERIOR VIEW
T-ANCHOR (TYPICAL)

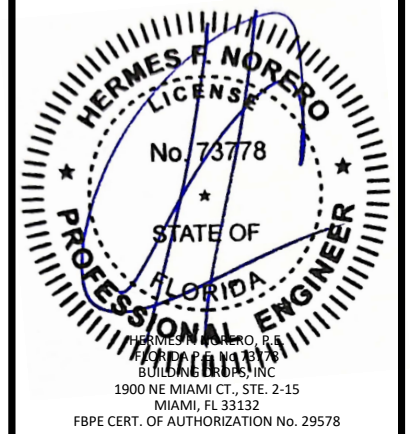
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SECTION
7.2

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ANCHOR CAPACITY - F & T ANCHOR

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 CURTAINWALL AND ENTRANCE SYSTEMS

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ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)									
NOMINAL DIMS.		ANCHOR TYPE							
TRIBUTARY WIDTH 'W' (in.)	FRAME HEIGHT 'H' (in.)	A	B	C	D	E	F	G	H
24	90	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42		84.1	90.0	90.0	90.0	90.0	90.0	90.0	90.0
49		72.1	90.0	90.0	90.0	90.0	90.0	90.0	90.0
24	96	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42		78.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0
49		67.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0
24	102	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		86.5	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42		74.2	90.0	90.0	90.0	90.0	90.0	90.0	90.0
49		63.6	90.0	89.3	90.0	90.0	90.0	90.0	90.0
24	108	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		81.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42		70.1	90.0	90.0	90.0	90.0	90.0	90.0	90.0
49		60.1	90.0	84.4	90.0	90.0	90.0	90.0	90.0
24	112	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		78.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42		67.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0
49		57.9	90.0	81.3	90.0	90.0	90.0	90.0	90.0
24	114	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		77.4	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42		66.4	90.0	90.0	90.0	90.0	90.0	90.0	90.0
49		56.9	90.0	79.9	90.0	90.0	90.0	90.0	90.0
24	120	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		88.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		73.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42		63.1	90.0	88.6	90.0	90.0	90.0	90.0	90.0
49		54.0	90.0	75.9	90.0	90.0	90.0	90.0	90.0
24	126	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		84.1	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		70.1	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42		60.1	90.0	84.4	90.0	90.0	90.0	90.0	90.0
49		51.5	90.0	72.3	90.0	90.0	90.0	90.0	90.0
24	132	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		80.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		66.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42		57.3	90.0	80.5	90.0	90.0	90.0	90.0	90.0
49		49.1	90.0	69.0	90.0	90.0	90.0	90.0	90.0

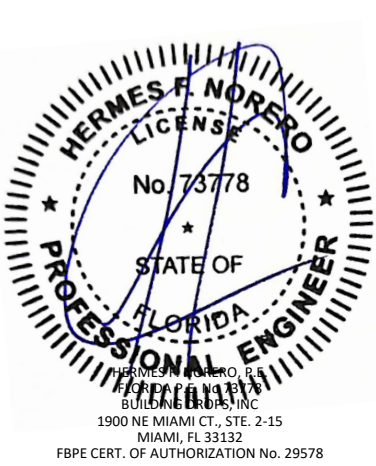
ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)									
NOMINAL DIMS.		ANCHOR TYPE							
TRIBUTARY WIDTH 'W' (in.)	FRAME HEIGHT 'H' (in.)	A	B	C	D	E	F	G	H
24	138	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		76.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		64.0	90.0	89.9	90.0	90.0	90.0	90.0	90.0
42		54.8	90.0	77.0	90.0	90.0	90.0	90.0	90.0
49		47.0	90.0	66.0	90.0	90.0	90.0	90.0	90.0
24	144	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		73.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		61.3	90.0	86.1	90.0	90.0	90.0	90.0	90.0
42		52.5	90.0	73.8	90.0	90.0	90.0	90.0	90.0
49		45.0	90.0	63.3	90.0	90.0	90.0	90.0	90.0
24	148.25	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		71.5	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		59.5	90.0	83.6	90.0	90.0	90.0	90.0	90.0
42		51.0	90.0	71.7	90.0	90.0	90.0	90.0	90.0
49		43.8	87.5	61.5	90.0	90.0	90.0	90.0	90.0
24	150	88.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		70.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		58.9	90.0	82.7	90.0	90.0	90.0	90.0	90.0
42		50.4	90.0	70.9	90.0	90.0	90.0	90.0	90.0
49		43.2	86.5	60.7	90.0	90.0	90.0	90.0	90.0
24	156	84.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		67.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		56.6	90.0	79.5	90.0	90.0	90.0	90.0	90.0
42		48.5	90.0	68.1	90.0	90.0	90.0	90.0	90.0
49		41.6	83.2	58.4	90.0	90.0	90.0	90.0	90.0
24	162	81.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		65.4	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		54.5	90.0	76.5	90.0	90.0	90.0	90.0	90.0
42		46.7	90.0	65.6	90.0	90.0	90.0	90.0	90.0
49		40.0	80.1	56.2	90.0	90.0	90.0	88.2	90.0
24	168	78.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		63.1	90.0	88.6	90.0	90.0	90.0	90.0	90.0
36		52.5	90.0	73.8	90.0	90.0	90.0	90.0	90.0
42		45.0	90.0	63.3	90.0	90.0	90.0	90.0	90.0
49		38.6	77.2	54.2	89.6	90.0	90.0	85.0	90.0
24	174	76.1	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		60.9	90.0	85.5	90.0	90.0	90.0	90.0	90.0
36		50.7	90.0	71.3	90.0	90.0	90.0	90.0	90.0
42		43.5	87.0	61.1	90.0	90.0	90.0	90.0	90.0
49		37.3	74.6	52.4	86.5	90.0	90.0	82.1	90.0

NOTE:
 1. REFER TO SECTIONS 7.0 THRU 7.2 FOR ANCHOR DETAILS AND REQUIREMENTS, AND DETERMINING MAX. SPAN HEIGHTS 'H' AND TRIBUTARY WIDTHS 'W'.

TITLE: SERIES 400T CURTAIN WALL - SSG (HVHZ) (IMPACT)
 ANCHOR DETAILS
 PREPARED BY: BUILDING DROPS, INC.
 1900 NE MIAMI CT., STE. 2-15
 MIAMI, FL 33132
 PH: (954)399-8478
 FAX: (954)744-4738
 WEB: www.buildingdrops.com

REMARKS	BY	DATE
MULLION UPDATE	DI	2/2024

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FL #: **FL46180**
 DATE: **12.19.23**
 DWG. BY: **MS** | CHK. BY: **HFN**
 SCALE: **NTS**
 DWG. #: **TLI017**
 SECTION: **7.3**

ANCHOR CAPACITY - F ANCHOR AT DOOR JAMB TO SIDELITE



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

ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)									
NOMINAL DIMS.		ANCHOR TYPE							
TRIBUTARY WIDTH 'W' (in.)	FRAME HEIGHT 'H' (in.)	A	B	C	D	E	F	G	H
24	90	73.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		58.9	90.0	82.7	90.0	90.0	90.0	90.0	90.0
36		49.0	90.0	68.9	90.0	90.0	90.0	90.0	90.0
42		42.0	84.1	59.0	90.0	90.0	90.0	90.0	90.0
49		36.0	72.1	50.6	83.6	90.0	90.0	79.4	90.0
24	96	69.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		55.2	90.0	77.5	90.0	90.0	90.0	90.0	90.0
36		46.0	90.0	64.6	90.0	90.0	90.0	90.0	90.0
42		39.4	78.8	55.4	90.0	90.0	90.0	86.8	90.0
49		33.8	67.6	47.5	78.4	86.9	86.9	74.4	90.0
24	102	64.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		51.9	90.0	72.9	90.0	90.0	90.0	90.0	90.0
36		43.3	86.5	60.8	90.0	90.0	90.0	90.0	90.0
42		37.1	74.2	52.1	86.1	90.0	90.0	81.7	90.0
49		31.8	63.6	44.7	73.8	81.8	81.8	70.0	90.0
24	108	61.3	90.0	86.1	90.0	90.0	90.0	90.0	90.0
30		49.0	90.0	68.9	90.0	90.0	90.0	90.0	90.0
36		40.9	81.7	57.4	90.0	90.0	90.0	90.0	90.0
42		35.0	70.1	49.2	81.3	90.0	90.0	77.2	90.0
49		30.0	60.1	42.2	69.7	77.2	77.2	66.1	90.0
24	112	59.1	90.0	83.0	90.0	90.0	90.0	90.0	90.0
30		47.3	90.0	66.4	90.0	90.0	90.0	90.0	90.0
36		39.4	78.8	55.4	90.0	90.0	90.0	86.8	90.0
42		33.8	67.6	47.5	78.4	86.9	86.9	74.4	90.0
49		29.0	57.9	40.7	67.2	74.5	74.5	63.8	90.0
24	114	58.1	90.0	81.6	90.0	90.0	90.0	90.0	90.0
30		46.5	90.0	65.3	90.0	90.0	90.0	90.0	90.0
36		38.7	77.4	54.4	89.8	90.0	90.0	85.3	90.0
42		33.2	66.4	46.6	77.0	85.3	85.3	73.1	90.0
49		28.4	56.9	40.0	66.0	73.1	73.1	62.7	90.0
24	120	55.2	90.0	77.5	90.0	90.0	90.0	90.0	90.0
30		44.1	88.3	62.0	90.0	90.0	90.0	90.0	90.0
36		36.8	73.6	51.7	85.4	90.0	90.0	81.0	90.0
42		31.5	63.1	44.3	73.2	81.1	81.1	69.4	90.0
49		27.0	54.0	38.0	62.7	69.5	69.5	59.5	90.0
24	126	52.5	90.0	73.8	90.0	90.0	90.0	90.0	90.0
30		42.0	84.1	59.0	90.0	90.0	90.0	90.0	90.0
36		35.0	70.1	49.2	81.3	90.0	90.0	77.2	90.0
42		30.0	60.1	42.2	69.7	77.2	77.2	66.1	90.0
49		25.7	51.5	36.2	59.7	66.2	66.2	56.7	90.0
24	132	50.2	90.0	70.5	90.0	90.0	90.0	90.0	90.0
30		40.1	80.3	56.4	90.0	90.0	90.0	88.4	90.0
36		33.4	66.9	47.0	77.6	86.0	86.0	73.7	90.0
42		28.7	57.3	40.3	66.5	73.7	73.7	63.1	90.0
49		24.6	49.1	34.5	57.0	63.2	63.2	54.1	90.0

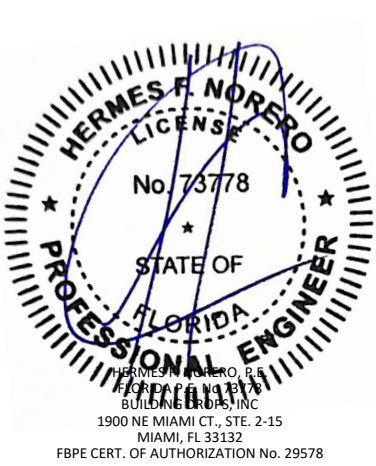
ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)									
NOMINAL DIMS.		ANCHOR TYPE							
TRIBUTARY WIDTH 'W' (in.)	FRAME HEIGHT 'H' (in.)	A	B	C	D	E	F	G	H
24	138	48.0	90.0	67.4	90.0	90.0	90.0	90.0	90.0
30		38.4	76.8	53.9	89.1	90.0	90.0	84.5	90.0
36		32.0	64.0	44.9	74.2	82.2	82.2	70.4	90.0
42		27.4	54.8	38.5	63.6	70.5	70.5	60.4	90.0
49		23.5	47.0	33.0	54.5	60.4	60.4	51.8	90.0
24	144	46.0	90.0	64.6	90.0	90.0	90.0	90.0	90.0
30		36.8	73.6	51.7	85.4	90.0	90.0	81.0	90.0
36		30.7	61.3	43.1	71.1	78.8	78.8	67.5	90.0
42		26.3	52.5	36.9	61.0	67.6	67.6	57.9	90.0
49		22.5	45.0	31.6	52.3	57.9	57.9	49.6	90.0
24	148.25	44.7	89.3	62.7	90.0	90.0	90.0	90.0	90.0
30		35.7	71.5	50.2	82.9	90.0	90.0	78.7	90.0
36		29.8	59.5	41.8	69.1	76.6	76.6	65.6	90.0
42		25.5	51.0	35.8	59.2	65.6	65.6	56.2	90.0
49		21.9	43.8	30.7	50.8	56.3	56.3	48.2	90.0
24	150	44.1	88.3	62.0	90.0	90.0	90.0	90.0	90.0
30		35.3	70.6	49.6	81.9	90.0	90.0	77.8	90.0
36		29.4	58.9	41.3	68.3	75.7	75.7	64.8	90.0
42		25.2	50.4	35.4	58.5	64.9	64.9	55.6	90.0
49		21.6	43.2	30.4	50.2	55.6	55.6	47.6	90.0
24	156	42.4	84.9	59.6	90.0	90.0	90.0	90.0	90.0
30		34.0	67.9	47.7	78.8	87.3	87.3	74.8	90.0
36		28.3	56.6	39.7	65.7	72.8	72.8	62.3	90.0
42		24.3	48.5	34.1	56.3	62.4	62.4	53.4	90.0
49		20.8	41.6	29.2	48.2	53.5	53.5	45.8	90.0
24	162	40.9	81.7	57.4	90.0	90.0	90.0	90.0	90.0
30		32.7	65.4	45.9	75.9	84.1	84.1	72.0	90.0
36		27.2	54.5	38.3	63.2	70.1	70.1	60.0	90.0
42		23.4	46.7	32.8	54.2	60.1	60.1	51.4	90.0
49		20.0	40.0	28.1	46.5	51.5	51.5	44.1	90.0
24	168	39.4	78.8	55.4	90.0	90.0	90.0	86.8	90.0
30		31.5	63.1	44.3	73.2	81.1	81.1	69.4	90.0
36		26.3	52.5	36.9	61.0	67.6	67.6	57.9	90.0
42		22.5	45.0	31.6	52.3	57.9	57.9	49.6	90.0
49		19.3	38.6	27.1	44.8	49.6	49.6	42.5	90.0
24	174	38.1	76.1	53.4	88.3	90.0	90.0	83.8	90.0
30		30.4	60.9	42.8	70.6	78.3	78.3	67.0	90.0
36		25.4	50.7	35.6	58.9	65.2	65.2	55.9	90.0
42		21.7	43.5	30.5	50.5	55.9	55.9	47.9	90.0
49		18.6	37.3	26.2	43.2	47.9	47.9	41.1	90.0

NOTE:
 1. REFER TO SECTIONS 7.0 THRU 7.2 FOR ANCHOR DETAILS AND REQUIREMENTS, AND DETERMINING MAX. SPAN HEIGHTS 'H' AND TRIBUTARY WIDTHS 'W'.
 2. REFER TO SECTION 2, TWIN SPAN ELEVATION FOR LOCATION OF F-ANCHOR WHEN USED AT VERTICAL MULLION BETWEEN DOOR AND D.L.O.

TITLE: SERIES 400T CURTAIN WALL - SSG (HVHZ) (IMPACT)
 ANCHOR DETAILS
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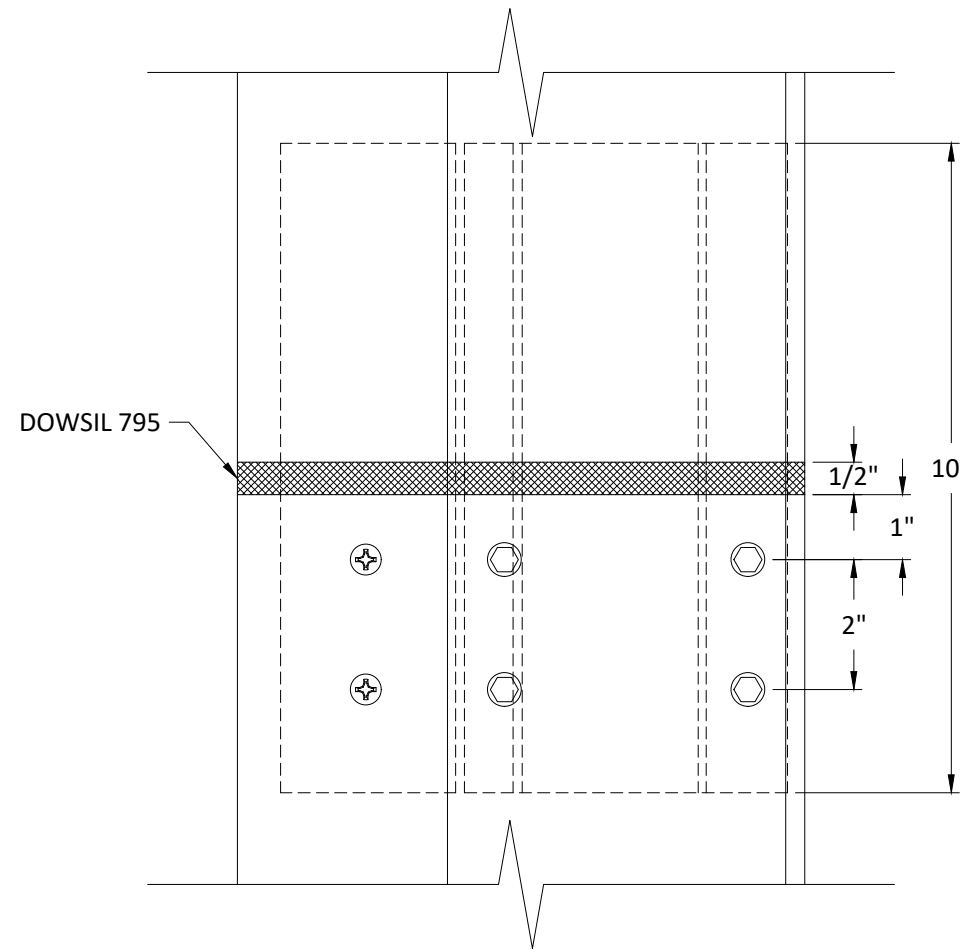
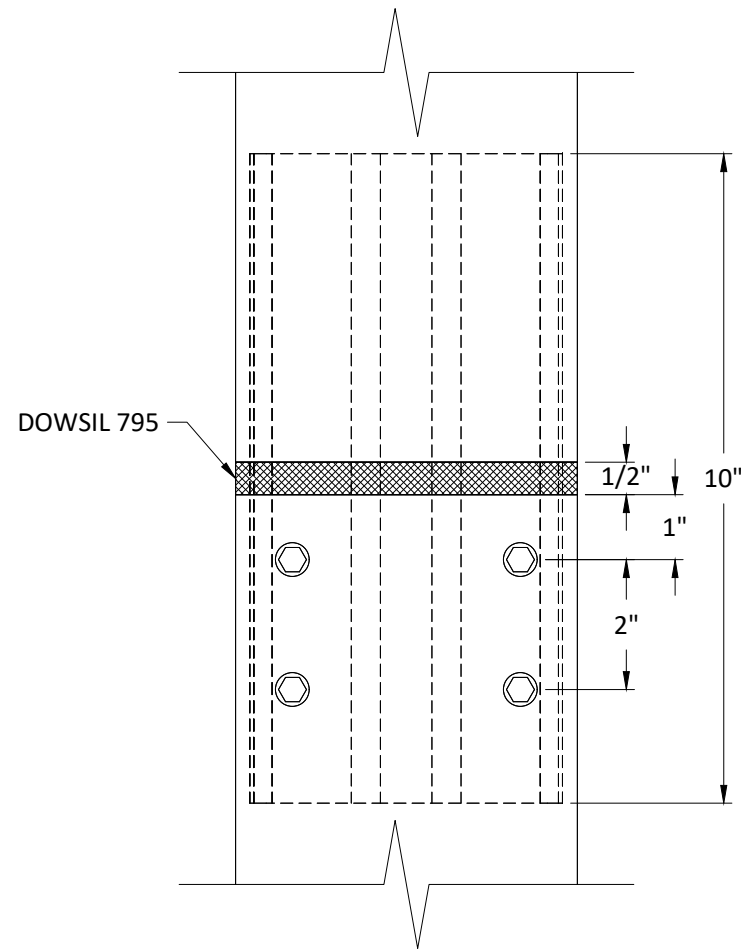
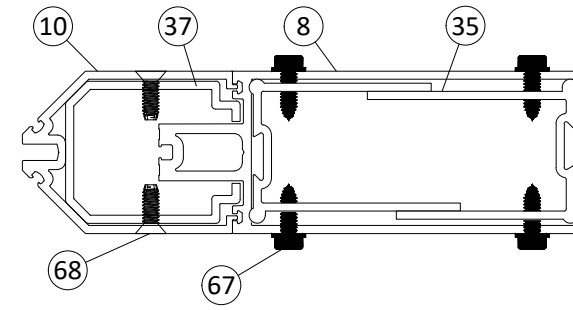
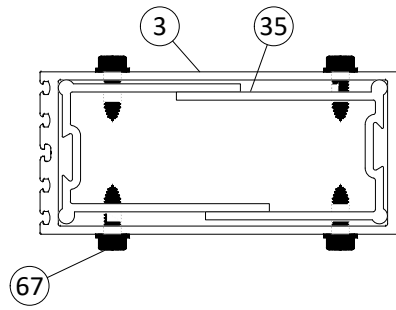
REMARKS	BY	DATE
MULLION UPDATE	DI	2/2024

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FL #: **FL46180**
 DATE: **12.19.23**
 DWG. BY: **MS** | CHK. BY: **HFN**
 SCALE: **NTS**
 DWG. #: **TLI017**
 SECTION **7.4**

MULLION SPLICE



1
8.0 **MULLION SPLICE**
INTERMEDIATE

2
8.0 **MULLION SPLICE**
CORNER

TUBELITE®
DEPENDABLE
LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS

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

TITLE:
SERIES 400T CURTAIN WALL - SSG
(HVHZ) (IMPACT)

WIND/DEAD LOAD ANCHOR DETAILS

PREPARED BY:
BUILDING DROPS, INC.

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MIAMI, FL 33132
PH: (954)399-8478
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FL #:
FL46180

DATE: **12.19.23**

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

SCALE: **NTS**

DWG. #: **TLI017**

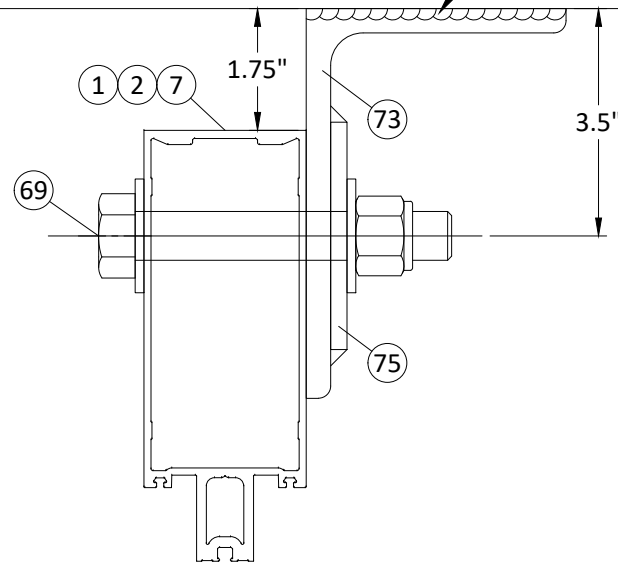
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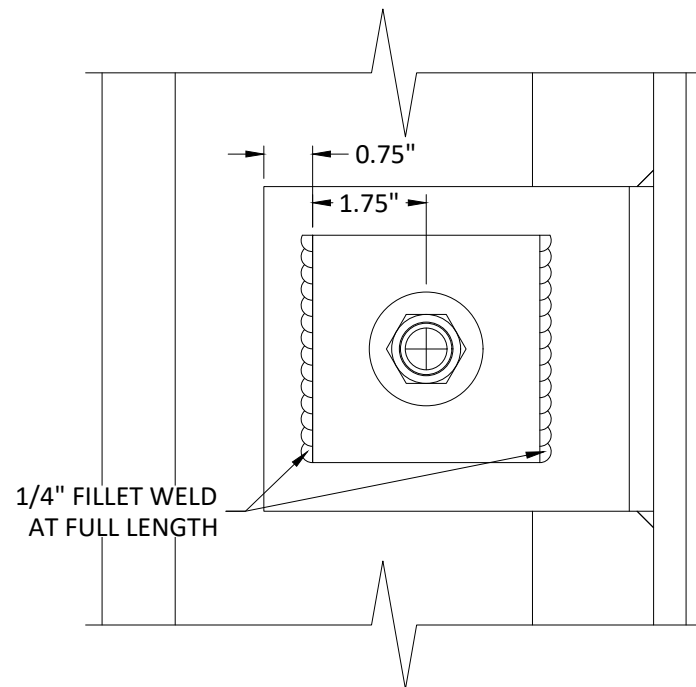
WIND/DEAD LOAD ANCHOR

STEEL SUBSTRATE BY OTHERS,
MIN. 3/8" THICK. A36 STEEL

1/4" FILLET WELD FULL LENGTH
AT TOP AND BOTTOM



1
8.1 VERTICAL SECTION
WIND/DEAD LOAD ANCHOR
AT JAMB



DEAD LOAD ANCHOR
AT STEEL SUBSTRATE

WIND /DEAD LOAD ANCHOR NOTES:

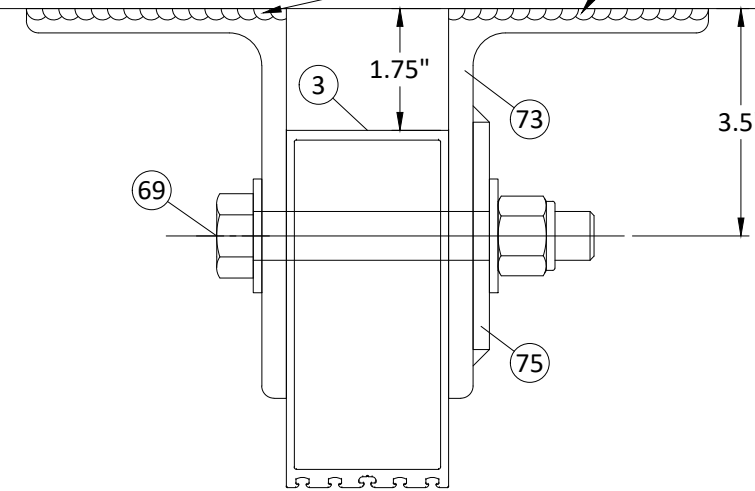
- WIND/DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - WL = +/- 3,748 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - WL = +/- 1,874 LBS (UNFACTORED) @ SINGLE ANGLE SUPPORTS
 - MAX. SPAN = 14'-6"
 - MAX. TRIB WIDTH = 49"
- DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - DL = +/- 1,110 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - DEAD LOAD SHALL BE DETERMINED BY ENGINEER OF RECORD.

NOTES:

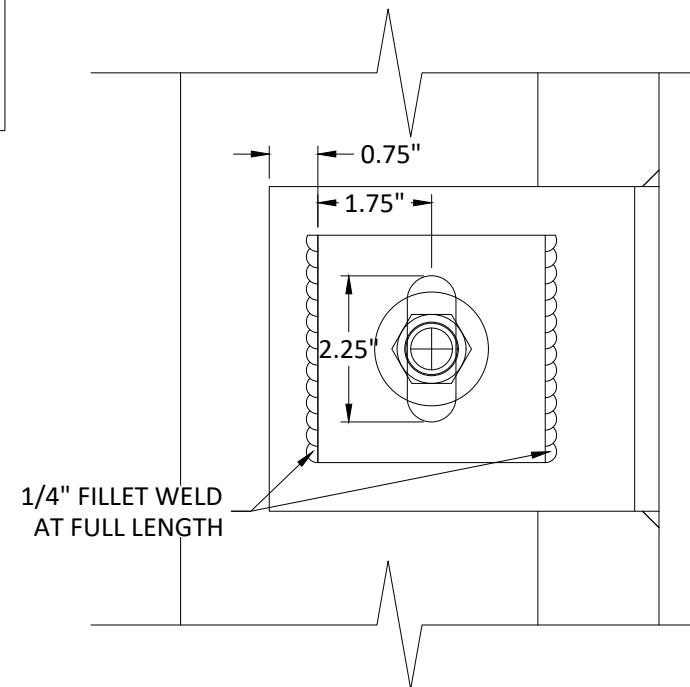
- ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

THE WL/DL ANCHOR HAS BEEN VERIFIED FOR THE DESIGN PRESSURE IN SHEET 4.4

1/4" FILLET WELD
FULL LENGTH AT
TOP AND BOTTOM



2
8.1 VERTICAL SECTION
WIND/DEAD LOAD ANCHOR
AT INTERMEDIATE



WIND LOAD ANCHOR
AT STEEL SUBSTRATE

TUBELITE
DEPENDABLE
LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS

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

TITLE:
SERIES 400T CURTAIN WALL - SSG
(HVHZ) (IMPACT)

WIND/DEAD LOAD ANCHOR DETAILS

PREPARED BY:
BUILDING DROPS, INC.

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



REMARKS	BY	DATE
MULLION UPDATE	DI	2/2024

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FL #:
FL46180

DATE: **12.19.23**

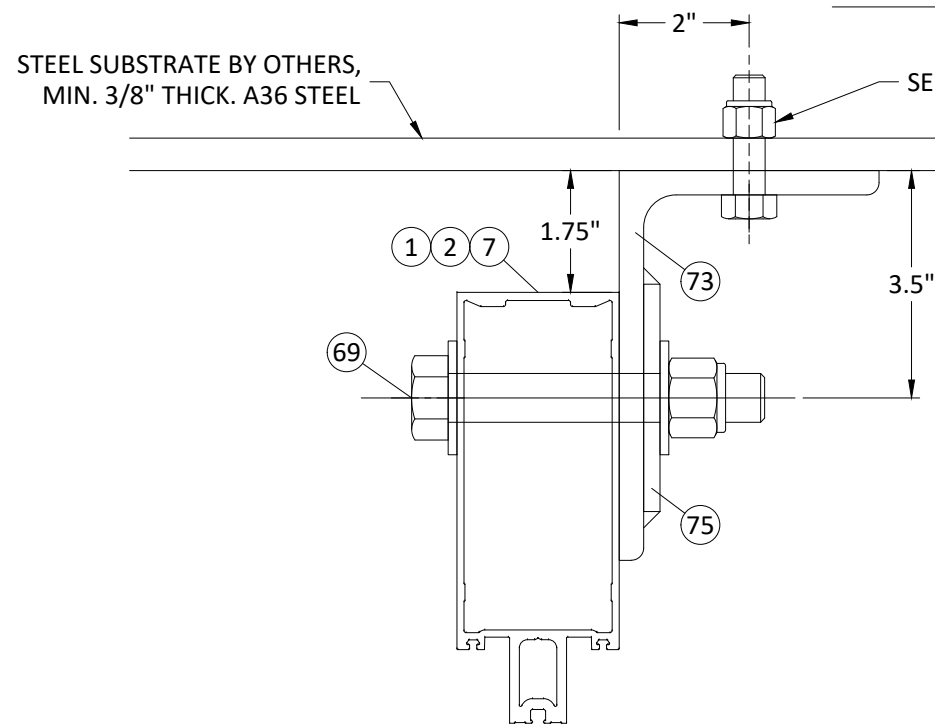
DWG. BY: **MS** CHK. BY: **HFN**

SCALE: **NTS**

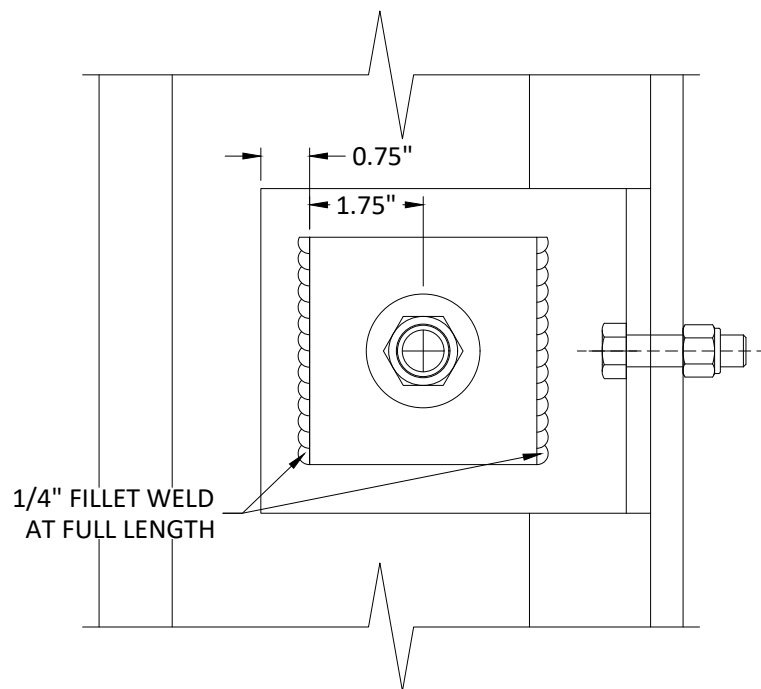
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8.1

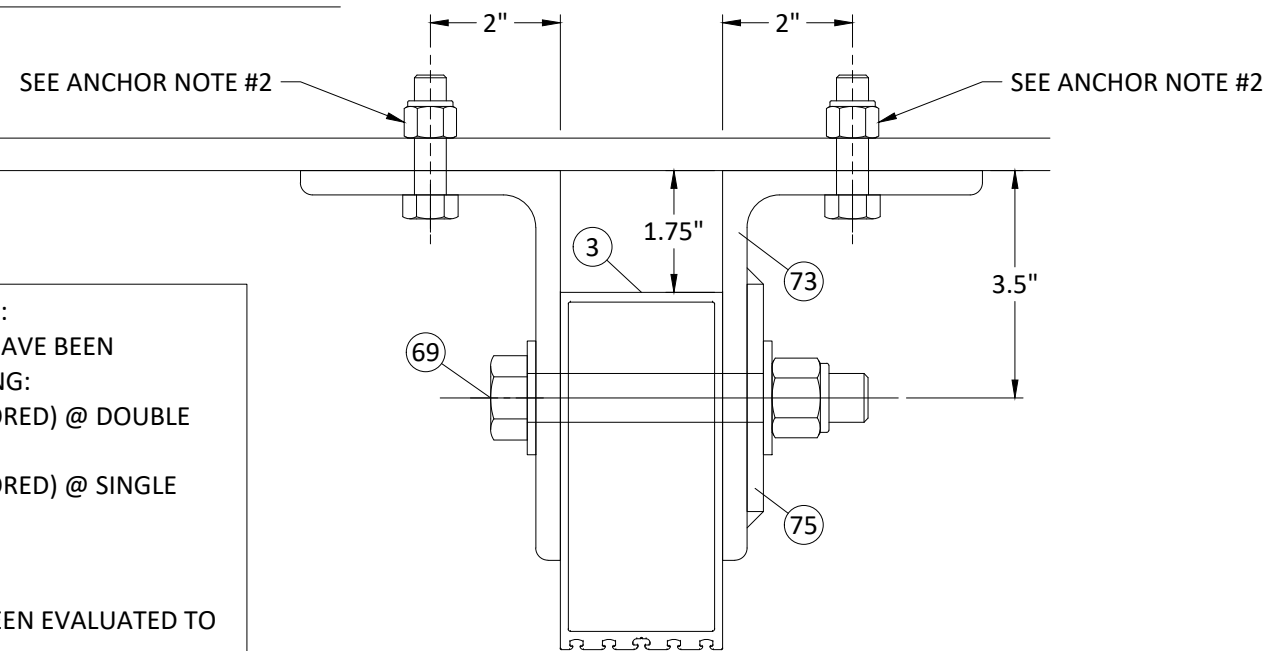
WIND/DEAD LOAD ANCHOR



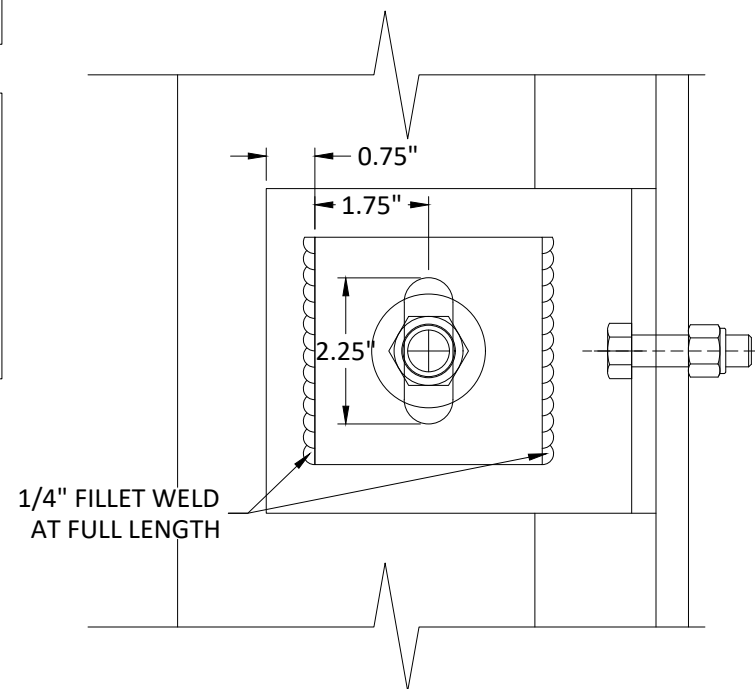
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8.2 **VERTICAL SECTION**
WIND/DEAD LOAD ANCHOR
AT JAMB



DEAD LOAD ANCHOR
AT STEEL SUBSTRATE



2
8.2 **VERTICAL SECTION**
WIND/DEAD LOAD ANCHOR
AT INTERMEDIATE



WIND LOAD ANCHOR
AT STEEL SUBSTRATE

- WIND /DEAD LOAD ANCHOR NOTES:**
- WIND/DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - WL = +/- 3,748 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - WL = +/- 1,874 LBS (UNFACTORED) @ SINGLE ANGLE SUPPORTS
 - MAX. SPAN = 14'-6"
 - MAX. TRIB WIDTH = 49"
 DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - DL = +/- 1,110 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - DEAD LOAD SHALL BE DETERMINED BY ENGINEER OF RECORD.
 - (1) 1/2"-13 X 2" GR. 5 HEX BOLT WITH NUTS , (2) FLAT WASHER, & LOCK WASHER.
 - MIN. FULL ENGAGEMENT WITH NUT & WASHER OR
 - THREADED INTO TAPPED HOLE W/ MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE
 - MIN. 1 1/2" EDGE DISTANCE.

- NOTES:**
- ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

THE WL/DL ANCHOR HAS BEEN VERIFIED FOR THE DESIGN PRESSURE IN SHEET 4.4

TUBELITE
DEPENDABLE

LEADERS IN ECO-EFFICIENT STOREFRONT, CURTAINWALL AND ENTRANCE SYSTEMS

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

TITLE:
SERIES 400T CURTAIN WALL - SSG (HVHZ) (IMPACT)

WIND/DEAD LOAD ANCHOR DETAILS

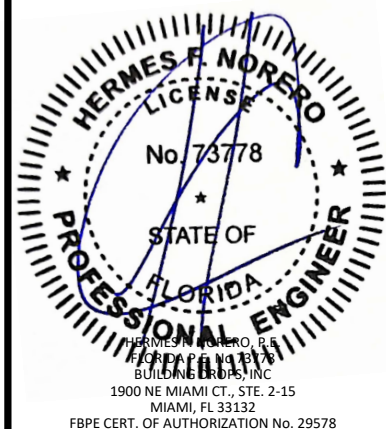
PREPARED BY:
BUILDING DROPS, INC.

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



REMARKS	BY	DATE
MULLION UPDATE	DI	2/2024

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FL #:
FL46180

DATE: **12.19.23**

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

SCALE: **NTS**

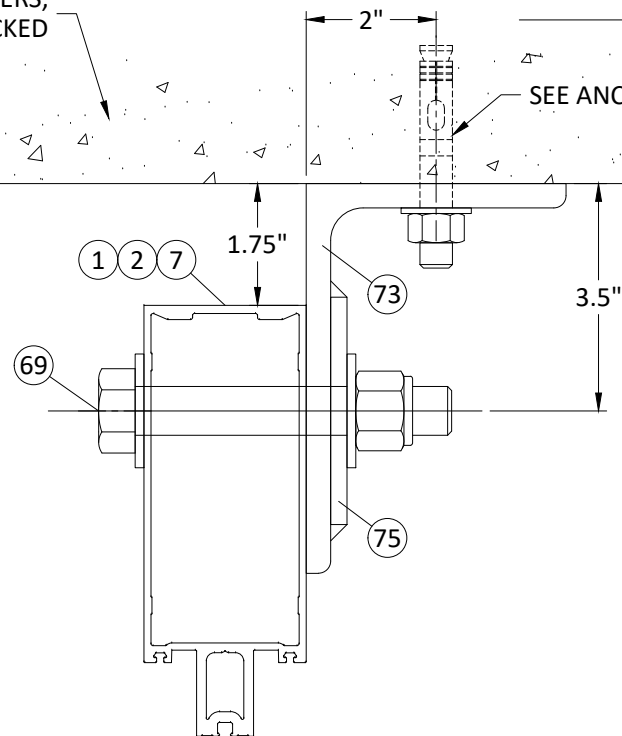
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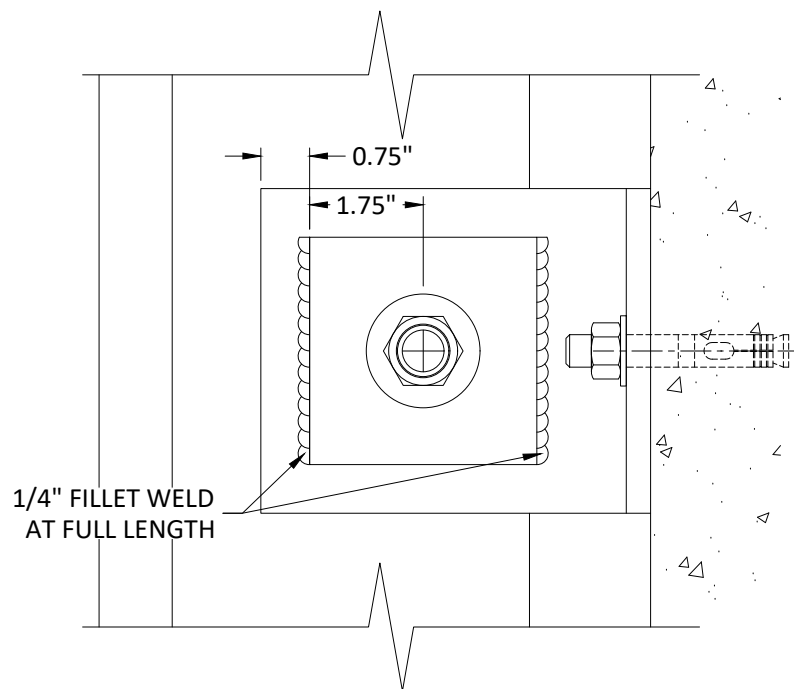
8.2

WIND/DEAD LOAD ANCHOR

CONCRETE SUBSTRATE BY OTHERS,
MIN. 4000 PSI UNCRACKED



1
8.3 VERTICAL SECTION
WIND/DEAD LOAD ANCHOR
AT JAMB



DEAD LOAD ANCHOR
AT CONCRETE SUBSTRATE

WIND /DEAD LOAD ANCHOR NOTES:

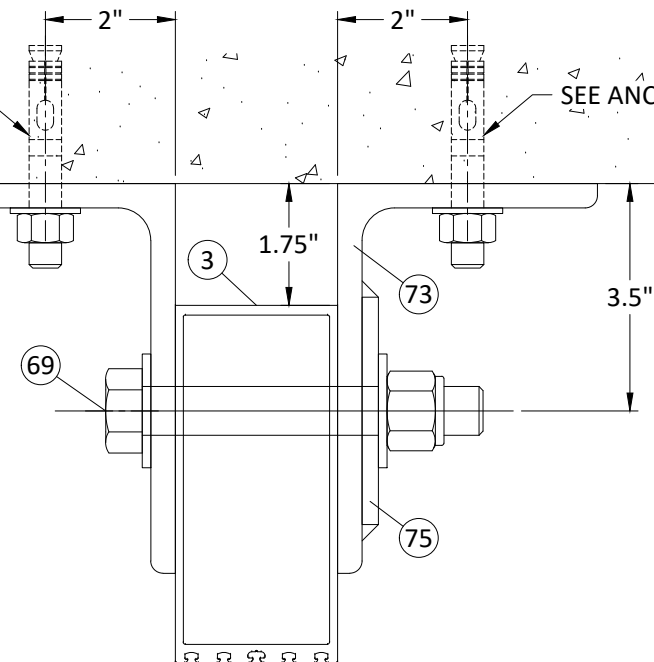
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 - WL = +/- 3,748 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
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 - DL = +/- 1,110 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - DEAD LOAD SHALL BE DETERMINED BY ENGINEER OF RECORD.
- (1) 1/2" HILTI KWIK BOLT TZ2 - SS
 - MIN. EMBEDMENT: 2-3/4"
 - MIN. EDGE DISTANCE: 5-1/4"
 - MIN. C.C. SPACING: 6-1/2"
 - MIN 4000 PSI UNCRACKED CONCRETE OR, (1) 1/2" HILTI KWIK BOLT 3
 - MIN. EMBEDMENT: 3-1/2"
 - MIN. EDGE DISTANCE: 4"
 - MIN. C.C. SPACING: 6-1/2"
 - MIN 4000 PSI UNCRACKED CONCRETE

NOTES:

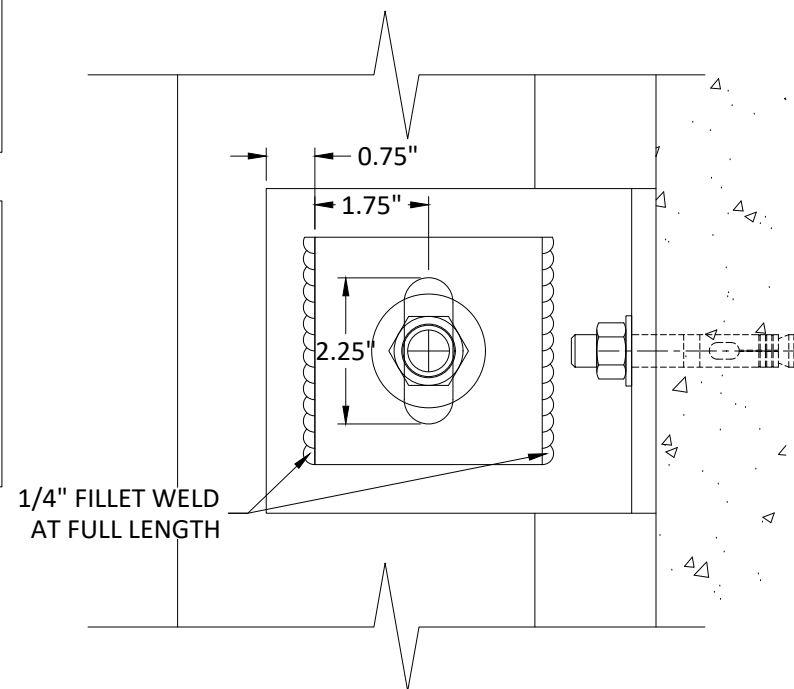
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THE WL/DL ANCHOR HAS BEEN VERIFIED FOR THE DESIGN PRESSURE IN SHEET 4.4

SEE ANCHOR NOTE #2



2
8.3 VERTICAL SECTION
WIND/DEAD LOAD ANCHOR
AT INTERMEDIATE



WIND LOAD ANCHOR
AT CONCRETE SUBSTRATE

TUBELITE
DEPENDABLE
LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS

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

TITLE:
SERIES 400T CURTAIN WALL - SSG
(HVHZ) (IMPACT)

WIND/DEAD LOAD ANCHOR DETAILS

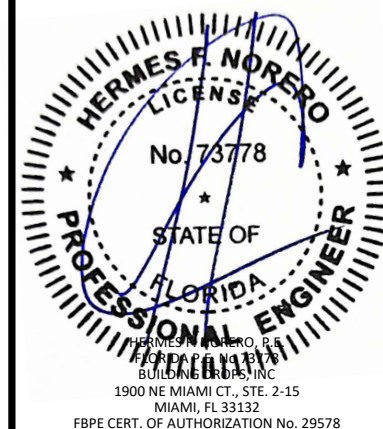
PREPARED BY:

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



REMARKS	BY	DATE
MULLION UPDATE	DI	2/2024

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FL #:
FL46180

DATE: **12.19.23**

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

SCALE: **NTS**

DWG. #: **TLI017**

SECTION

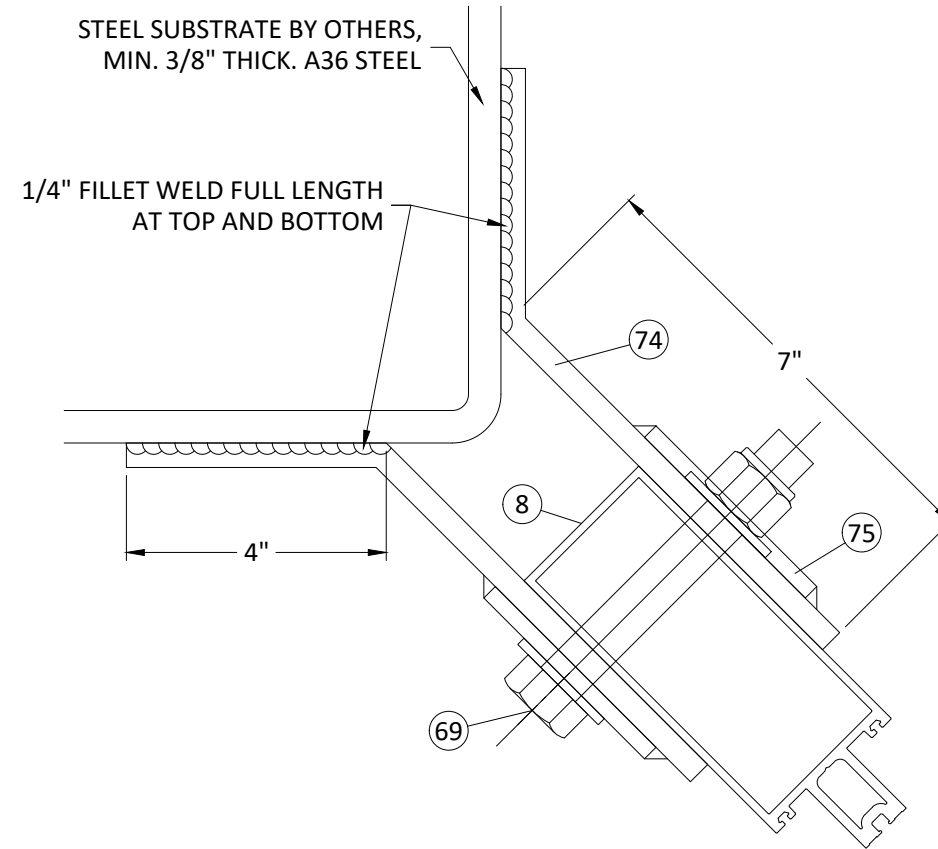
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WIND/DEAD LOAD ANCHOR

WIND /DEAD LOAD ANCHOR NOTES:

- WIND/DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - WL = +/- 3,748 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
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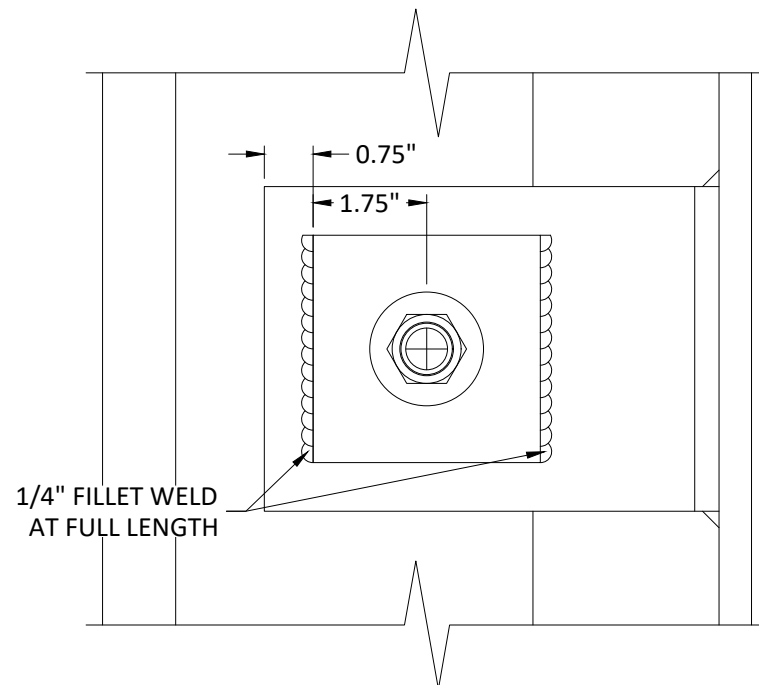


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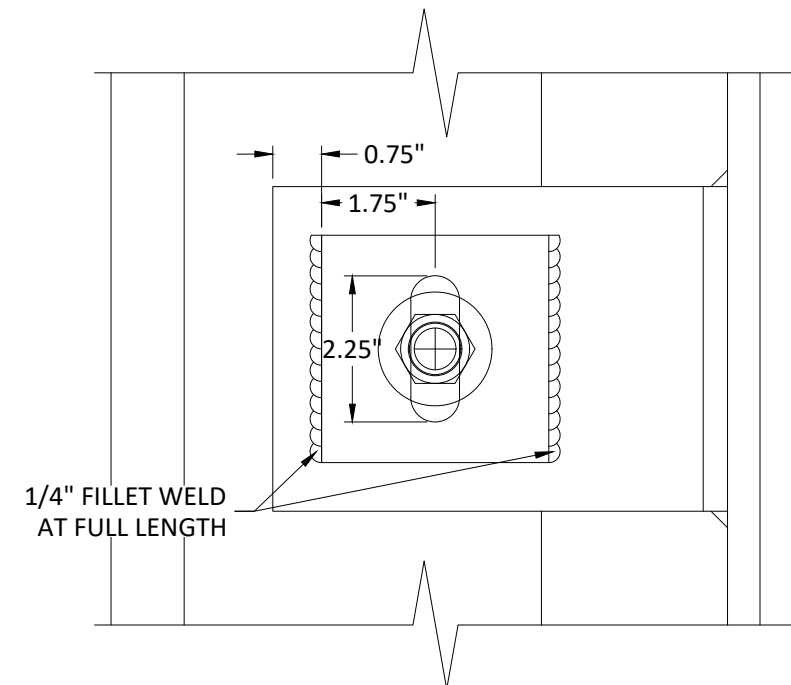
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THE WL/DL ANCHOR HAS BEEN VERIFIED FOR THE DESIGN PRESSURE IN "CASE 3" TABLE OF SHEET 4.7

1 8.4 VERTICAL SECTION WIND/DEAD LOAD ANCHOR AT CORNER



**DEAD LOAD ANCHOR
AT STEEL SUBSTRATE**



**WIND LOAD ANCHOR
AT STEEL SUBSTRATE**

TUBELITE
DEPENDABLE
LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS

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

TITLE:
SERIES 400T CURTAIN WALL - SSG
(HVHZ) (IMPACT)

WIND/DEAD LOAD ANCHOR DETAILS

PREPARED BY:
BUILDING DROPS, INC.

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



REMARKS	BY	DATE
MULLION UPDATE	DI	2/2024

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FL #:
FL46180

DATE: **12.19.23**

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

SCALE: **NTS**

DWG. #: **TLI017**

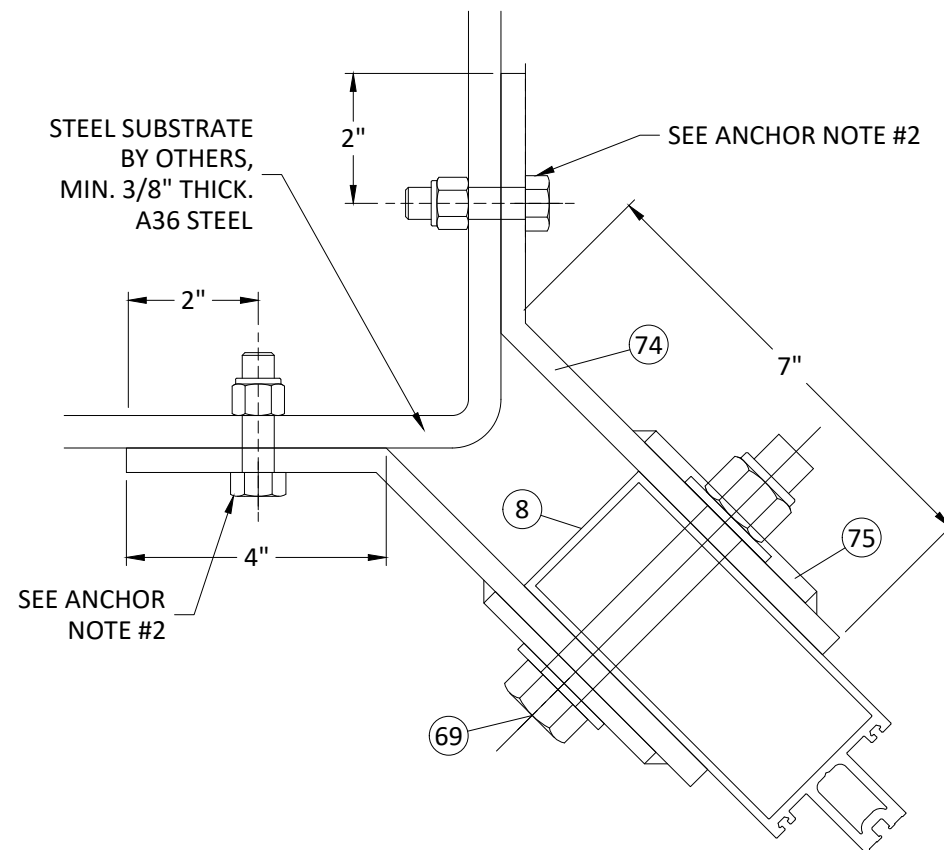
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WIND/DEAD LOAD ANCHOR

WIND /DEAD LOAD ANCHOR NOTES:

- WIND/DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - WL = +/- 3,748 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
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- (1) 1/2"-13 X 2" GR. 5 HEX BOLT WITH NUTS , (2) FLAT WASHER, & LOCK WASHER.
 - MIN. FULL ENGAGEMENT WITH NUT & WASHER OR
 - THREADED INTO TAPPED HOLE W/ MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE
 - MIN. 1 1/2" EDGE DISTANCE.

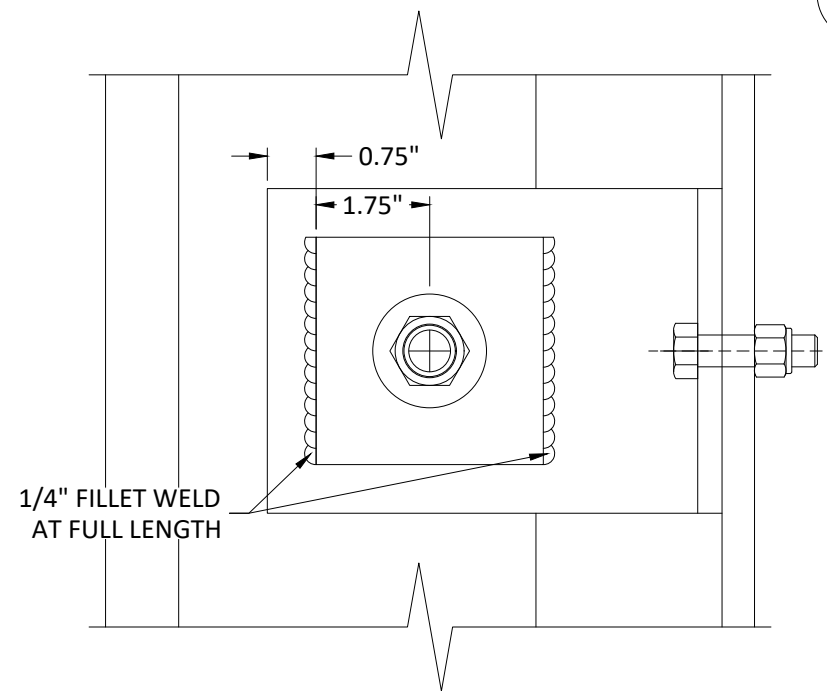


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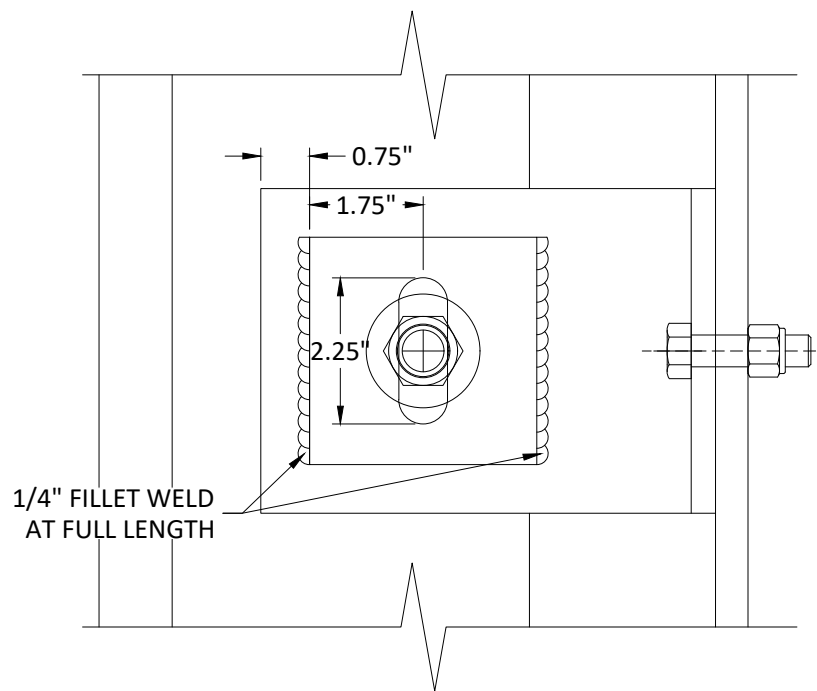
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THE WL/DL ANCHOR HAS BEEN VERIFIED FOR THE DESIGN PRESSURE IN "CASE 3" TABLE OF SHEET 4.7

1 8.5 VERTICAL SECTION WIND/DEAD LOAD ANCHOR AT CORNER



DEAD LOAD ANCHOR
AT STEEL SUBSTRATE



WIND LOAD ANCHOR
AT STEEL SUBSTRATE

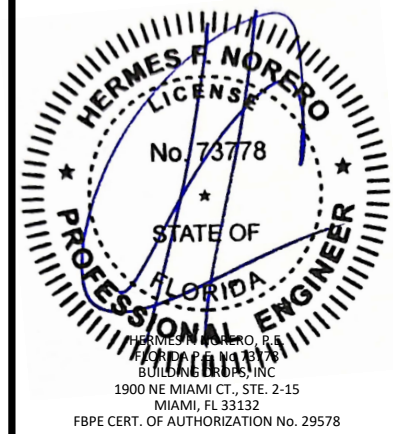
TUBELITE
DEPENDABLE
LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS

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

TITLE: SERIES 400T CURTAIN WALL - SSG (HVHZ) (IMPACT)
WIND/DEAD LOAD ANCHOR DETAILS
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT., STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
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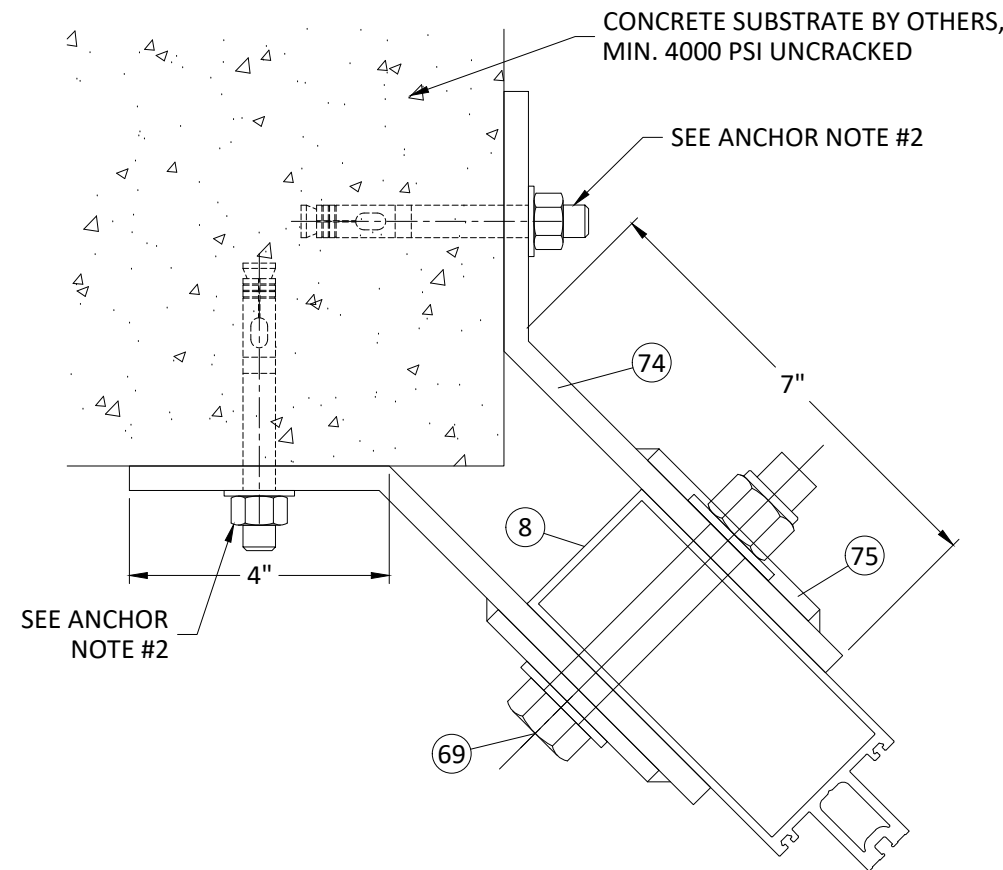
FL #:	FL46180
DATE:	12.19.23
DWG. BY:	MS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	TLI017
SECTION	8.5

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WIND/DEAD LOAD ANCHOR

WIND /DEAD LOAD ANCHOR NOTES:

- WIND/DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - WL = +/- 3,748 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
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 - DEAD LOAD SHALL BE DETERMINED BY ENGINEER OF RECORD.
- (1) 1/2" HILTI KWIK BOLT TZ2 - SS
 - MIN. EMBEDMENT: 2-3/4"
 - MIN. EDGE DISTANCE: 5-1/4"
 - MIN. C.C. SPACING: 6-1/2"
 - MIN 4000 PSI UNCRACKED CONCRETE OR, (1) 1/2" HILTI KWIK BOLT 3
 - MIN. EMBEDMENT: 3-1/2"
 - MIN. EDGE DISTANCE: 4"
 - MIN. C.C. SPACING: 6-1/2"
 - MIN 4000 PSI UNCRACKED CONCRETE

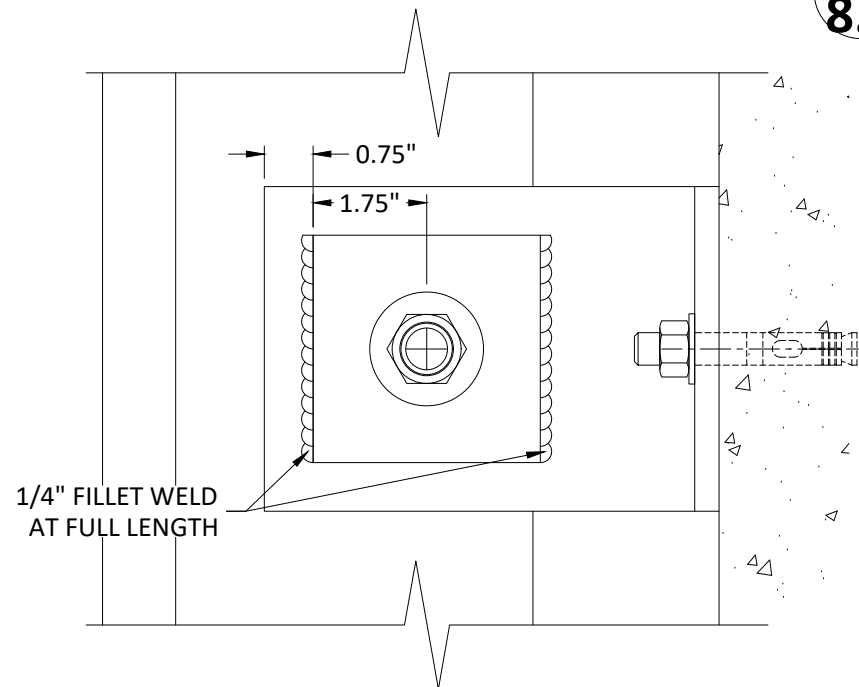


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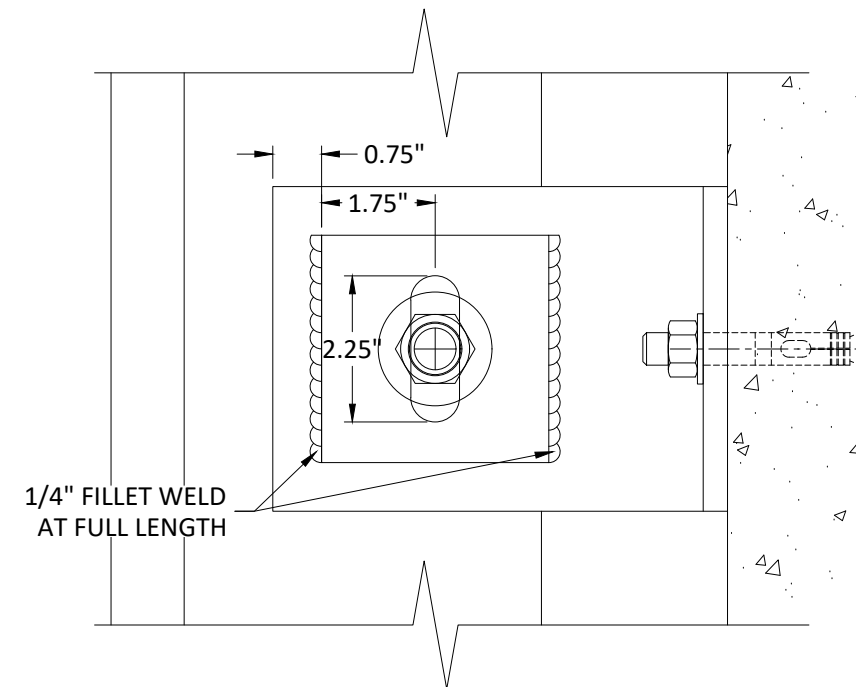
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THE WL/DL ANCHOR HAS BEEN VERIFIED FOR THE DESIGN PRESSURE IN "CASE 3" TABLE OF SHEET 4.7

1 8.6 VERTICAL SECTION WIND/DEAD LOAD ANCHOR AT CORNER



DEAD LOAD ANCHOR
AT CONCRETE SUBSTRATE



WIND LOAD ANCHOR
AT CONCRETE SUBSTRATE

TUBELITE
DEPENDABLE
LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS

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TITLE:
SERIES 400T CURTAIN WALL - SSG
(HVHZ) (IMPACT)

WIND/DEAD LOAD ANCHOR DETAILS

PREPARED BY:
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REMARKS	BY	DATE
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FL #:
FL46180

DATE: **12.19.23**

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

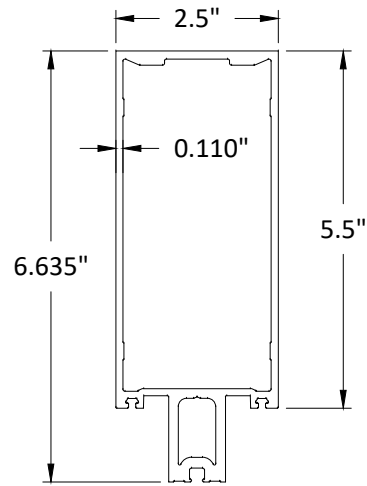
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DWG. #: **TLI017**

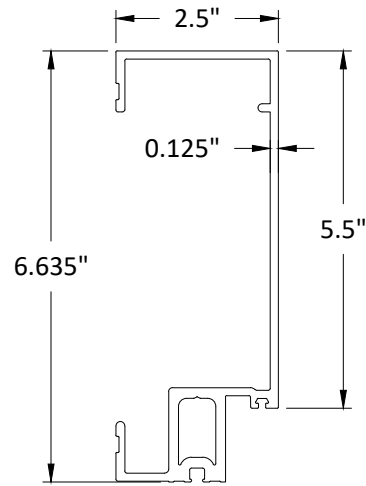
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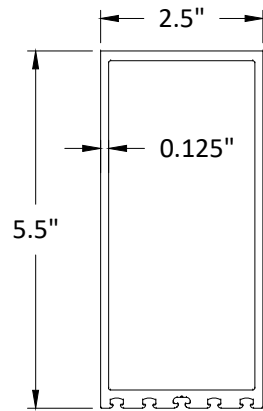
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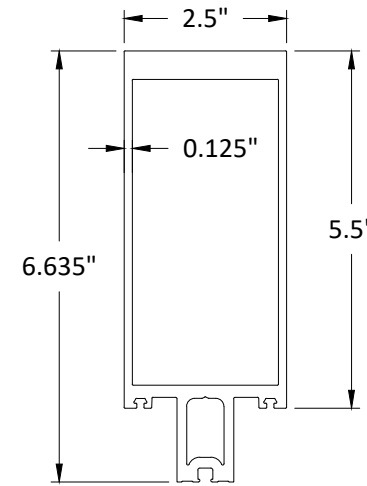
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ALUMINUM 6063-T6



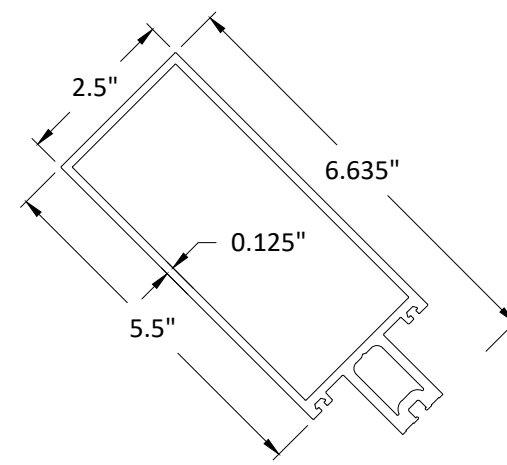
② TUBE, OPEN-BACK
ALUMINUM 6063-T6



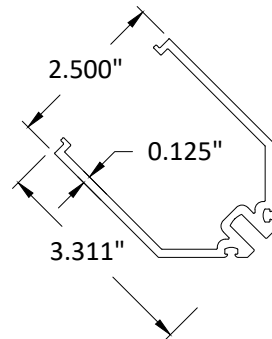
③ TUBE, SSG
ALUMINUM 6063-T6



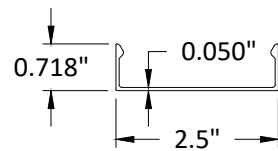
⑦ TUBE, HD TUBULAR
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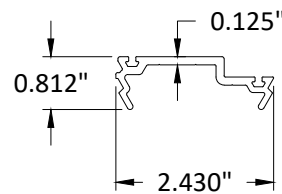
⑧ TUBE, CORNER
ALUMINUM 6063-T6



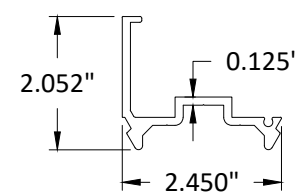
⑩ OUTSIDE CORNER ADAPTOR, SSG
ALUMINUM 6063-T5



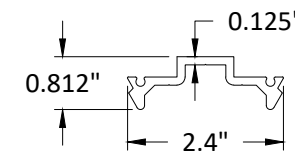
⑬ COVER, FACE, 2-1/2" X 3/4"
ALUMINUM 6063-T5



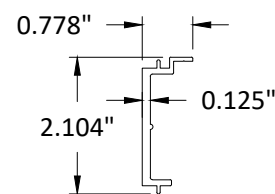
⑰ OFFSET PRESSURE PLATE, CORNER
ALUMINUM 6063-T5



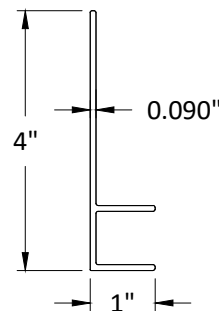
⑱ OFFSET FILLER-PRESSURE PLATE
ALUMINUM 6063-T5



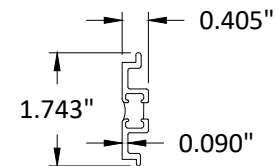
⑲ OFFSET PRESSURE PLATE
ALUMINUM 6063-T5



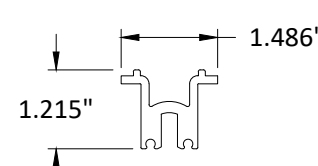
⑲ POCKET FILLER
PVC



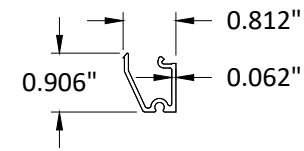
⑳ F-ANCHOR CLIP
ALUMINUM 6063-T5



㉑ POCKET FILLER, THERMAL
ALUMINUM 6063-T5



㉒ SCREW APPLIED HORN
ALUMINUM 6063-T5



㉓ REDUCER
ALUMINUM 6063-T5

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CURTAINWALL AND ENTRANCE SYSTEMS

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

TITLE:
SERIES 400T CURTAIN WALL - SSG
(HVHZ) (IMPACT)

COMPONENTS & BILL OF MATERIALS

PREPARED BY:
BUILDING DROPS, INC.

1900 NE MIAMI CT., STE. 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 #:
FL46180

DATE: **12.19.23**

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

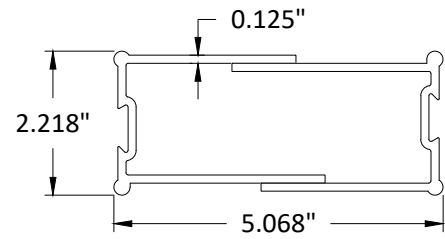
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DWG. #: **TLI017**

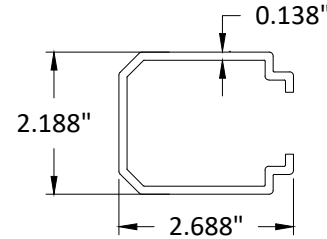
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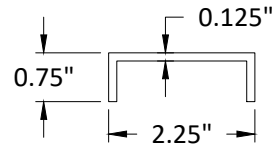
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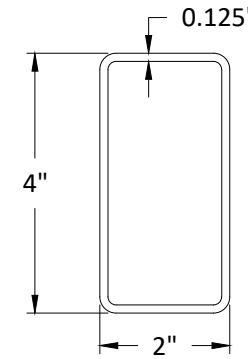
35 MULLION SPLICE, INTMD.
ALUMINUM 6063-T5



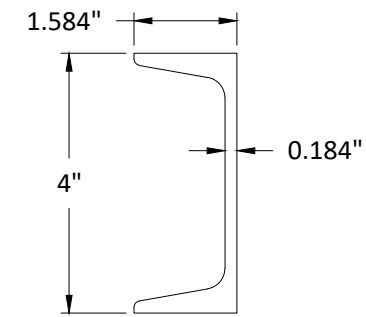
37 MULLION SPLICE, ITEM #10
ALUMINUM 6063-T5



54 ALUMINUM 6063-T5



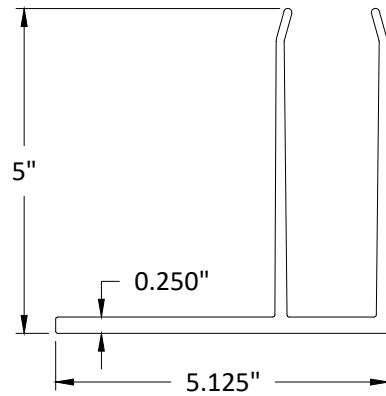
55 REIN. 2"X4"X11 GA. (120" LONG)
A36 STEEL



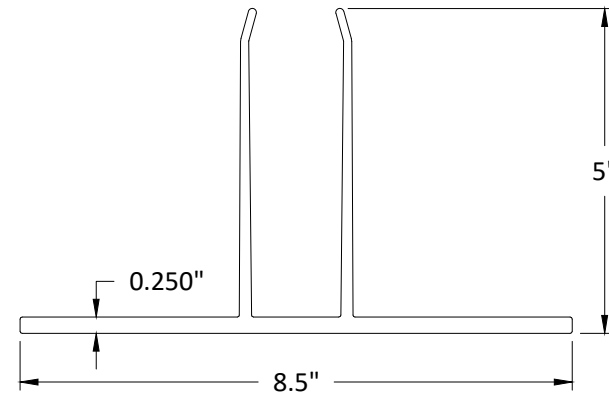
59 REIN. C4X5.4 (198" LONG)
A36 STEEL

60 REIN. C4X5.4 (96" LONG)
A36 STEEL

61 REIN. C4X5.4 (24" LONG)
A36 STEEL



62 ANCHOR, 'F' CUT
ALUMINUM 6063-T6



63 ANCHOR, 'T' CUT
ALUMINUM 6063-T6

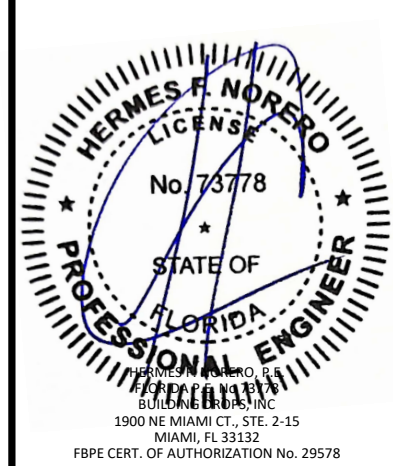
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WALKER, MICHIGAN 49544
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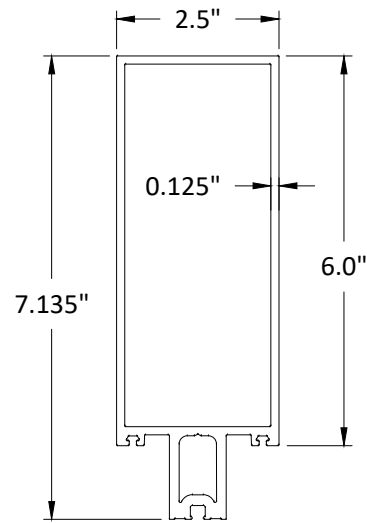
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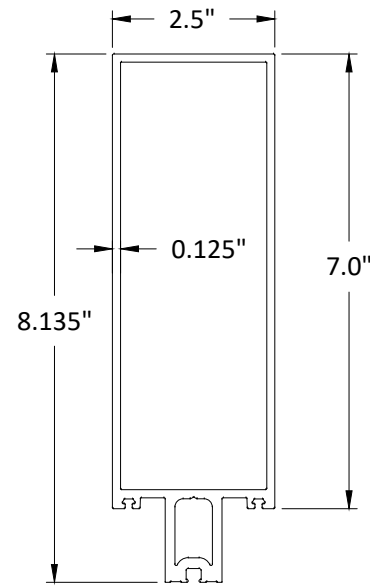
FL #:	FL46180
DATE:	12.19.23
DWG. BY:	MS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	TLI017
SECTION	9.1

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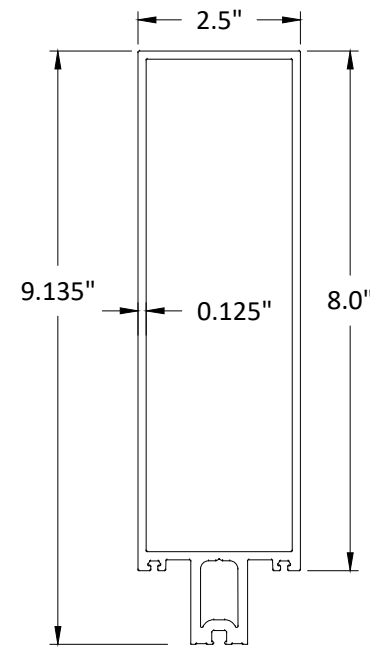
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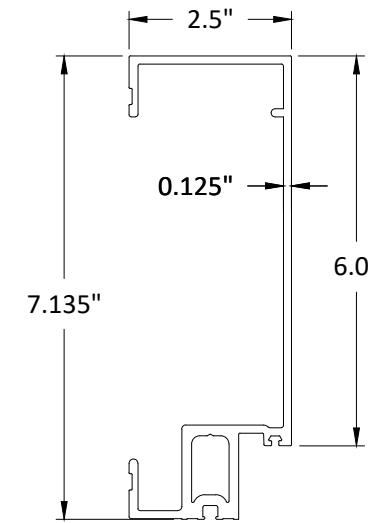
76 EXTRUSION, TUBE
ALUMINUM 6063-T6



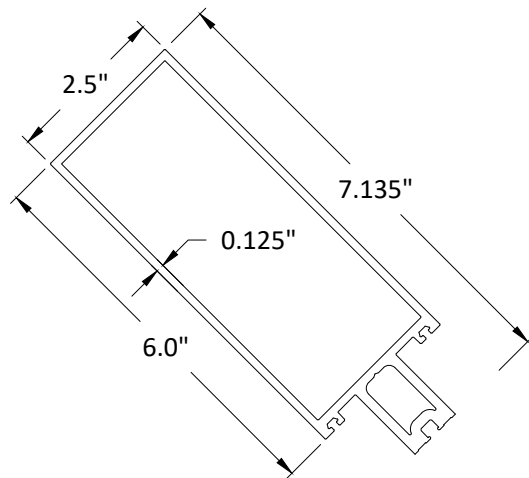
77 EXTRUSION, TUBE
ALUMINUM 6063-T6



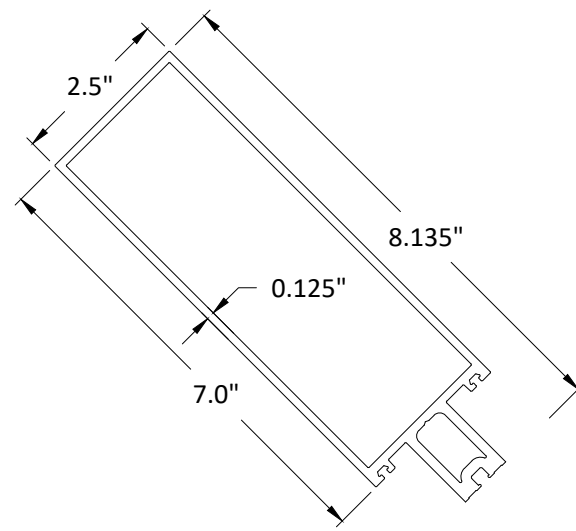
78 EXTRUSION, TUBE
ALUMINUM 6063-T6



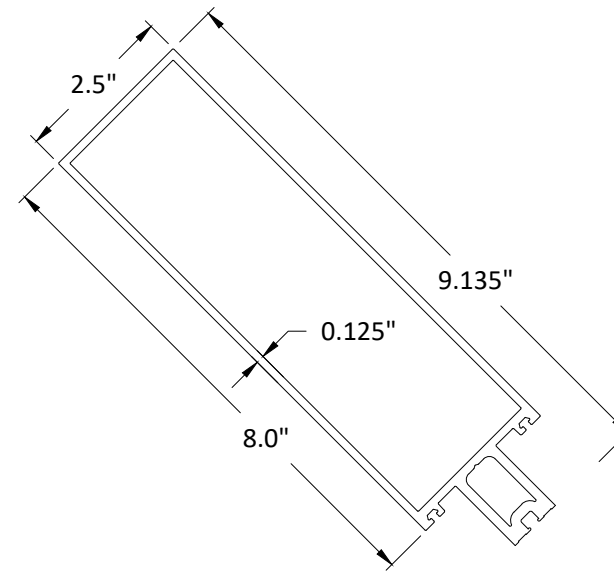
79 TUBE, OPEN BACK
ALUMINUM 6063-T6



82 TUBE, CORNER
ALUMINUM 6063-T6



83 TUBE, CORNER
ALUMINUM 6063-T6



84 TUBE, CORNER
ALUMINUM 6063-T6

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DATE: **12.19.23**

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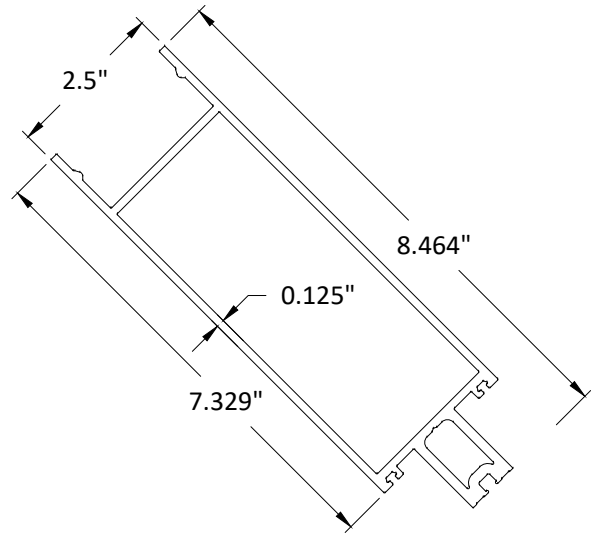
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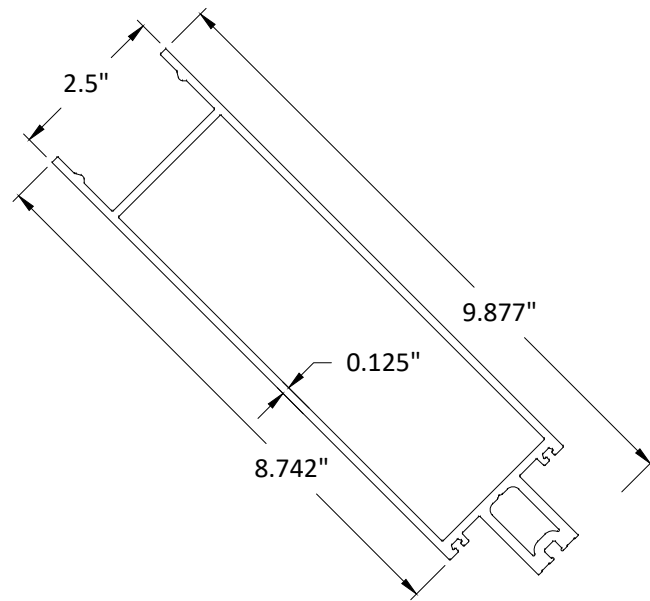
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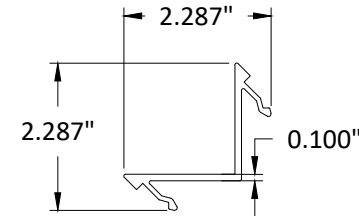
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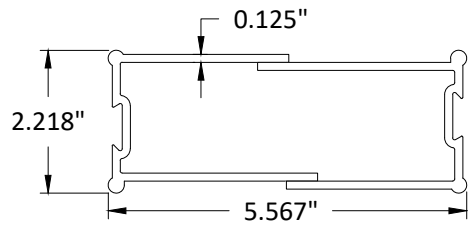
85 TUBE, CORNER, ANGLED BACK
ALUMINUM 6063-T6



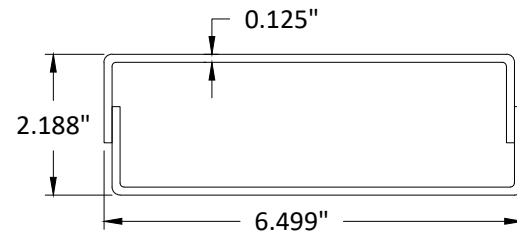
86 TUBE, CORNER, ANGLED BACK
ALUMINUM 6063-T6



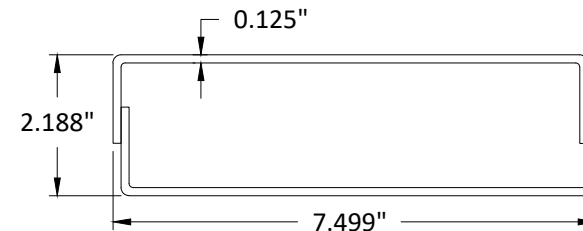
87 CORNER, ANGLED BACK COVER
ALUMINUM 6063-T6



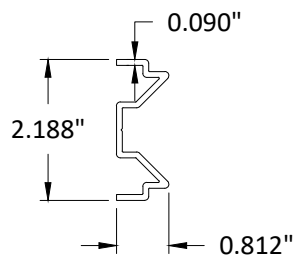
88 MULLION SPLICE, INTMD.
ALUMINUM 6063-T5



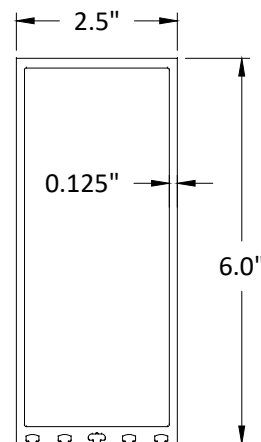
89 MULLION SPLICE, INTMD.
ALUMINUM 6063-T5



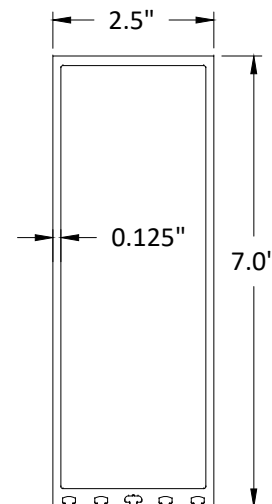
90 MULLION SPLICE, INTMD.
ALUMINUM 6063-T5



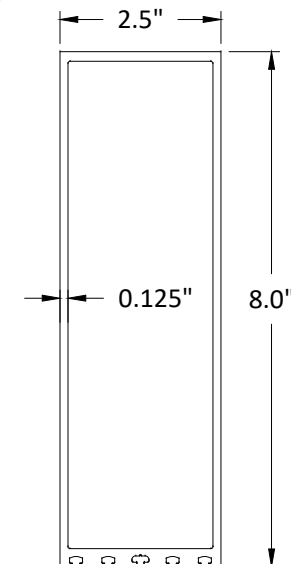
110 MULLION SPLICE, INTMD.
ALUMINUM 6063-T5



114 TUBE, SSG
ALUMINUM 6063-T6



115 TUBE, SSG
ALUMINUM 6063-T6



116 TUBE, SSG
ALUMINUM 6063-T6

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FL46180

DATE: **12.19.23**

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

SCALE: **NTS**

DWG. #: **TLI017**

SECTION
9.3

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BILL OF MATERIALS

BILL OF MATERIAL

ITEM	PART NO.	DESCRIPTION	MATERIAL
1	E55TBC223	EXTRUSION, TUBE, NON-THERMAL	ALUMINUM - 6063-T6
2	E55TBC245	EXTRUSION, TUBE, OPEN-BACK	ALUMINUM - 6063-T6
3	E55TB140	EXTRUSION, TUBE, SSG	ALUMINUM - 6063-T6
7	E55TBC302	EXTRUSION, TUBE, HD TUBULAR	ALUMINUM - 6063-T6
8	E55TBC88	EXTRUSION, TUBE, CORNER	ALUMINUM - 6063-T6
10	E4TB46	EXTRUSION, OUTSIDE CORNER ADAPTOR, SSG	ALUMINUM - 6063-T5
13	E4TB64	EXTRUSION, COVER, FACE, 2-1/2" X 3/4"	ALUMINUM - 6063-T5
17	M4TB288	EXTRUSION, OFFSET PRESSURE PLATE	ALUMINUM - 6063-T5
18	M4TB284FS	EXTRUSION, OFFSET FILLER-PRESSURE PLATE	ALUMINUM - 6063-T5
19	M4TB102FS	EXTRUSION, OFFSET PRESSURE PLATE	ALUMINUM - 6063-T5
20	M4TB315FS	EXTRUSION, OFFSET PRESSURE PLATE, 4"	ALUMINUM - 6063-T5
22	P2061	SHEAR BLOCK	ALUMINUM - 6063-T5
23	PTB126C	SHEAR BLOCK	ALUMINUM - 6063-T5
26	PTB49	SHEAR BLOCK	ALUMINUM - 6063-T5
27	PTB130	SSG HORIZONTAL SHEAR BLOCK	ALUMINUM - 6063-T5
29	PTB286	POCKET FILLER	PVC
31	E3162	F-ANCHOR CLIP	ALUMINUM - 6063-T5
32	TA331TU	POCKET FILLER, THERMAL	ALUMINUM - 6063-T5
33	E4TB45	SCREW APPLIED HORN	ALUMINUM - 6063-T5
34	E4TB69	REDUCER	ALUMINUM - 6063-T5
35	P1627D	MULLION SPLICE, INTERMEDIATE	ALUMINUM - 6063-T5
37	PTB346	MULLION SPLICE, OUTSIDE CORNER ADAPTOR, SSG	ALUMINUM - 6063-T5
42	P4606	GASKET, FILLER-PRESSURE PLATE	P-PART - RUBBER
43	PTB33	GASKET, PRESSURE PLATE	P-PART - RUBBER
44	PTB148	GASKET, THERMAL BARRIER, EPG (PRESSURE PLATE)	P-PART - RUBBER
47	P4631	GASKET, SSG	P-PART - RUBBER
48	P6550	SETTING BLOCK	P-PART - SILICONE
49	PTB154	3/8" X 7/16" GLAZING TAPE	P-PART - FOAM
51	P4612	4" LONG SETTING BLOCK	P-PART - RUBBER
52	P4632	6" LONG SETTING CHAIR	P-PART - RUBBER
53	P4743	OS 90 SHEAR CLIP	P-PART - 6063-T5
54	E0536	MULLION CLIP	ALUMINUM - 6063-T5
59	-	A36 STEEL, CHANNEL, C4 X 5.4, 198" LONG	P-PART - STEEL

BILL OF MATERIAL

ITEM	PART NO.	DESCRIPTION	MATERIAL
60	-	A36 STEEL, CHANNEL, C4 X 5.4, 96" LONG	P-PART - STEEL
61	-	A36 STEEL, CHANNEL, C4 X 5.4, 24" LONG	P-PART - STEEL
62	PTB20	ANCHOR, 'F' CUT & PRE-DRILLED	ALUMINUM - 6063-T6
63	PTB21	ANCHOR, 'T' CUT & PRE-DRILLED	ALUMINUM - 6063-T6
64	-	1/4" FM'D STEEL ANCHOR	P-PART - STEEL
65	S425	SCREW, 1/4"-20 X 3", HEX HD TYPE F	P-PART - FASTENER
67	S369	SCREW, 1/4"-20 X 3/4", HEX HD TYPE F	P-PART - FASTENER
68	S6505	SCREW, 1/4"-20 X 3/4", FLAT HEAD, CLASS 2A	P-PART - FASTENER
69	-	BOLT, 3/4"-10 X 5-1/4" HEX HD, CLASS 2A WITH NUT & (2) WASHERS	P-PART - FASTENER
73	-	WL/DL ANGLE, 4"X6" OR 4"X7"	A36 STEEL
74	-	WL/DL CORNER ANGLE, 4"X6" OR 4"X7"	A36 STEEL
75	-	PLATE, 3-1/2"X3-1/2"	A36 STEEL
76	E6TBC02	EXTRUSIONS, TUBE, NON-THERMAL	ALUMINUM - 6063-T6
77	E7TBC02	EXTRUSIONS, TUBE, NON-THERMAL	ALUMINUM - 6063-T6
78	E8TBC02	EXTRUSIONS, TUBE, NON-THERMAL	ALUMINUM - 6063-T6
79	E6TBC245	EXTRUSION, TUBE, OPEN-BACK	ALUMINUM - 6063-T6
82	E6TBC88	EXTRUSION, TUBE, CORNER	ALUMINUM - 6063-T6
83	E7TBC88	EXTRUSION, TUBE, CORNER	ALUMINUM - 6063-T6
84	E8TBC88	EXTRUSION, TUBE, CORNER	ALUMINUM - 6063-T6
85	E7TBC88	EXTRUSION, TUBE, CORNER, ANGLED BACK	ALUMINUM - 6063-T6
86	E8TBC88	EXTRUSION, TUBE, CORNER, ANGLED BACK	ALUMINUM - 6063-T6
87	E4TB50	EXTRUSION, CORNER, ANGLED BACK COVER	ALUMINUM - 6063-T6
88	P2058	SHEAR BLOCK	ALUMINUM - 6063-T5
89	PTB61	SHEAR BLOCK	ALUMINUM - 6063-T5
90	PTB50	SHEAR BLOCK	ALUMINUM - 6063-T5
91	PTB1260	SHEAR BLOCK	ALUMINUM - 6063-T5

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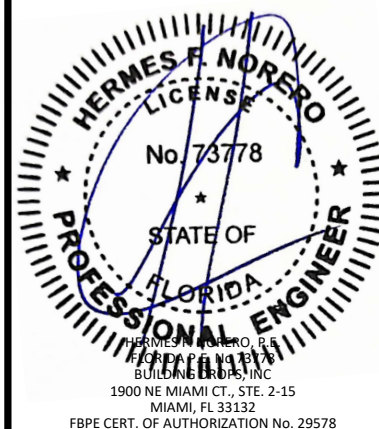
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SCALE: **NTS**

DWG. #: **TLI017**

SECTION

9.4

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BILL OF MATERIALS

BILL OF MATERIAL			
ITEM	PART NO.	DESCRIPTION	MATERIAL
93	P2059	SHEAR BLOCK	ALUMINUM - 6063-T5
94	PTB62A	SHEAR BLOCK	ALUMINUM - 6063-T5
95	PTB51A	SHEAR BLOCK	ALUMINUM - 6063-T5
97	P2060	SHEAR BLOCK	ALUMINUM - 6063-T5
98	PTB62C	SHEAR BLOCK	ALUMINUM - 6063-T5
99	PTB51B	SHEAR BLOCK	ALUMINUM - 6063-T5
100	P1627E	MULLION SPLICE, INTMD.	ALUMINUM - 6063-T5
101	P1632A	MULLION SPLICE, INTMD.	ALUMINUM - 6063-T5
102	P1632B	MULLION SPLICE, INTMD.	ALUMINUM - 6063-T5
108	P4741	OS 90 SHEAR CLIP	ALUMINUM - 6063-T5
109	P4744	OS 90 SHEAR CLIP	ALUMINUM - 6063-T5
110	PTB350	MULLION SPLICE, INTMD.	ALUMINUM - 6063-T5
114	E6TB140	EXTRUSION, TUBE, SSG	ALUMINUM - 6063-T6
115	E7TB140	EXTRUSION, TUBE, SSG	ALUMINUM - 6063-T6
116	E8TB140	EXTRUSION, TUBE, SSG	ALUMINUM - 6063-T6

TUBELITE
DEPENDABLE
LEADERS IN ECO-EFFICIENT STOREFRONT,
CURTAINWALL AND ENTRANCE SYSTEMS

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

TITLE:
SERIES 400T CURTAIN WALL - SSG
(HVHZ) (IMPACT)

COMPONENTS & BILL OF MATERIALS

PREPARED BY:
BUILDING DROPS, INC.

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



REMARKS	BY	DATE
MULLION UPDATE	DI	2/2024

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



FL #:
FL46180

DATE: **12.19.23**

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

SCALE: **NTS**

DWG. #: **TLI017**

SECTION
9.5

MULLION/SHEAR BLOCK/ACCESSORY TABLE

MULLION		HEAD SHEAR BLOCK		INTERMEDIATE SHEAR BLOCK		SILL SHEAR BLOCK		OS 90 SHEAR CLIP		MULLION SPLICE, INTMD.	
ITEM	PART NO.	ITEM	PART NO.	ITEM	PART NO.	ITEM	PART NO.	ITEM	PART NO.	ITEM	PART NO.
76	E6TBC02	88	P2058	89	PTB61	90	PTB50	53	P4743	100	P1627E
79	E6TBC245	91	PTB1260	-	-	91	PTB1260	-	-	-	-
114	E6TB140	-	-	27	PTB130	-	-	-	-	100	P1627E
77	E7TBC02	93	P2059	94	PTB62A	95	PTB51A	108	P4741	101	P1632A
85	E7TBC88	108	P4741	-	-	-	-	108	P4741	101 & 110	P1632A & PTB350
115	E7TB140	-	-	27	PTB130	-	-	-	-	101	P1632A
78	E8TBC02	97	P2060	98	PTB62C	99	PTB51B	109	P4744	102	P1632B
86	E8TBC88	109	P4744	-	-	-	-	109	P4744	102 & 110	P1632B & PTB350
116	E8TB140	-	-	27	PTB130	-	-	-	-	102	P1632B

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