

# TUBELITE<sup>®</sup>

## DEPENDABLE

# SERIES 400T CURTAIN WALL - CAPTURED GLASS (WZ3) (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 ±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, **EXCLUDING** 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
- 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.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE OF WIND ZONE 4.
- 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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7	ANCHOR DETAILS
8	WIND/DEAD LOAD ANCHOR DETAILS
9	COMPONENTS & BILL OF MATERIALS

**TUBELITE<sup>®</sup>**  
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 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 - CAPTURED GLASS (WZ3) (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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FL #: **FL46180**

DATE: **12.19.23**

DWG. BY: **MS**      CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **TLI016**

SECTION  
**1.0**

s:\projects\tubelite, inc\fbz-24-0164-fbc submittal - f46180-400t-series impact curtainwall revisions\dwg\46180-110116.dwg 2/27/2024 2:47 PM

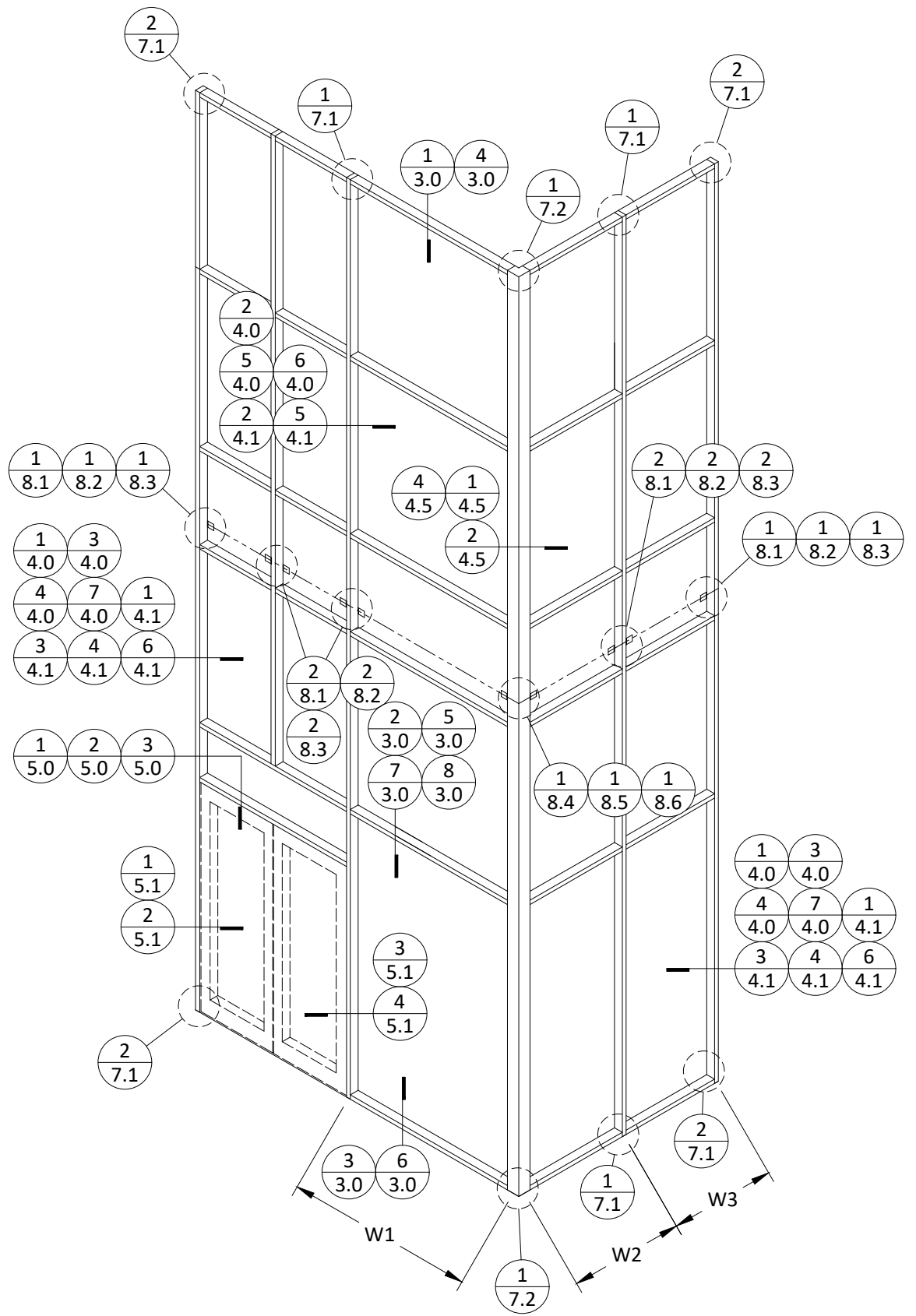
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ELEVATIONS

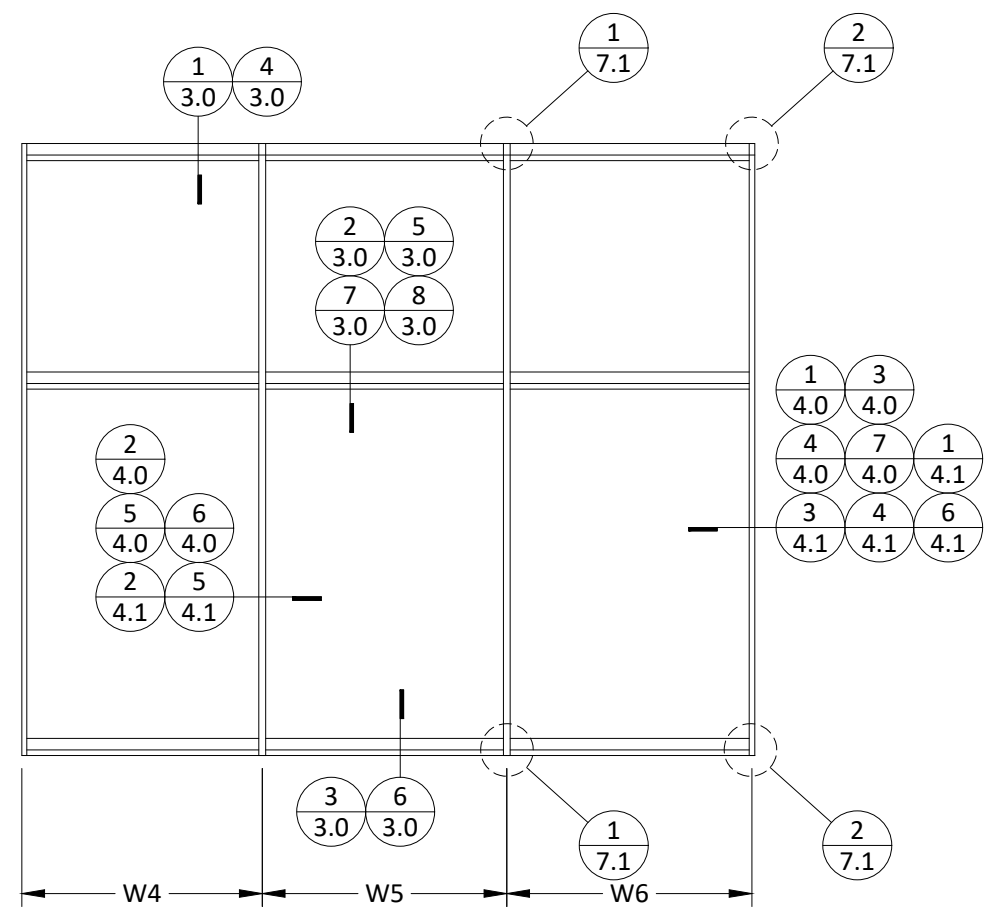
PREPARED BY: BUILDING DROPS, INC.  
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AVERAGE MULLION SPACING  
TYP. MULL. (W) =  $\frac{W2 + W3}{2}$  OR  $\frac{W4 + W5}{2}$   
JAMB MULL. (W) = W3 OR W6  
OUTSIDE CORNER MULL. (W) =  $\frac{W1 + W2}{2}$



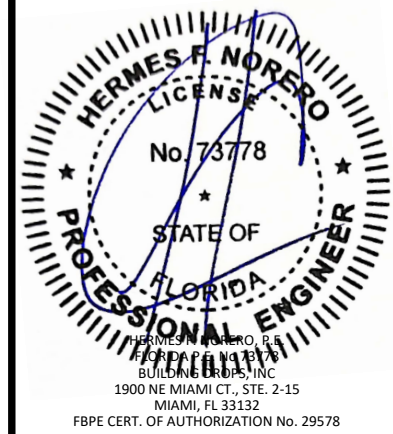
**TYPICAL TWIN SPAN**



**TYPICAL SINGLE SPAN**

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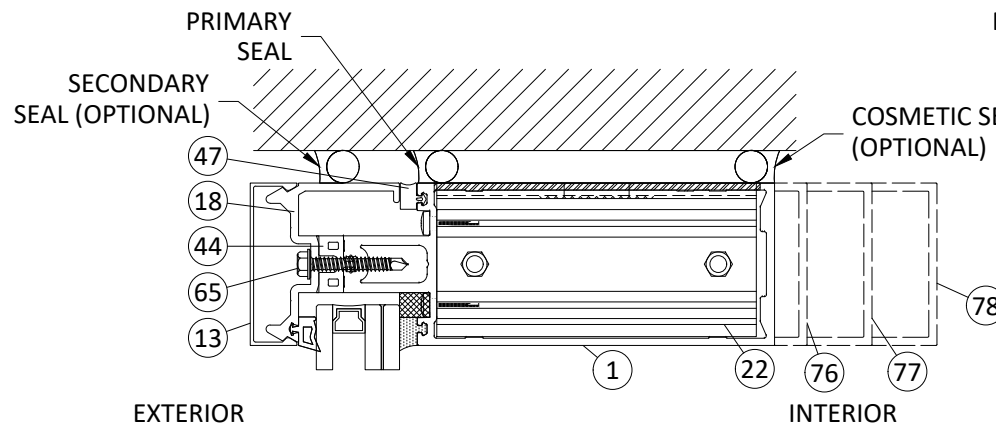
DWG. #: **TLI016**

SECTION **2.0**

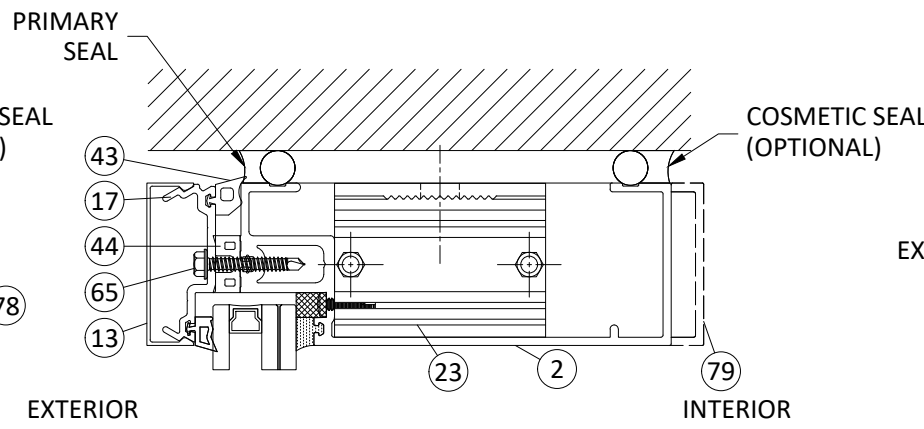
# HORIZONTAL SECTIONS

DESIGN PRESSURE TABLE: HORIZONTAL MEMBER	
MAX. MEMBER SPAN LENGTH "W" (IN.)	DESIGN PRESSURE (PSF)
72	+90 / -90

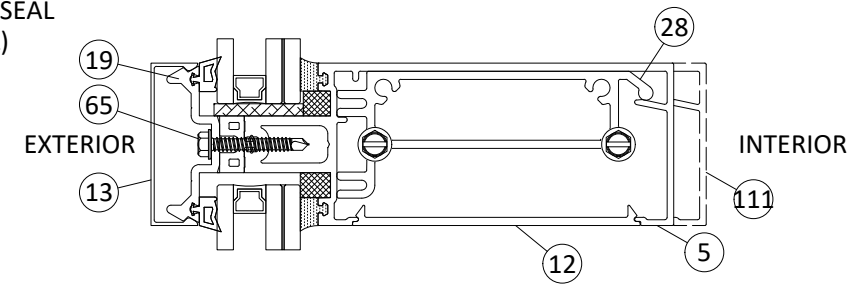
NOTE: HORIZONTAL MEMBER CAPACITY IS LIMITED BY SINGLE SPAN.



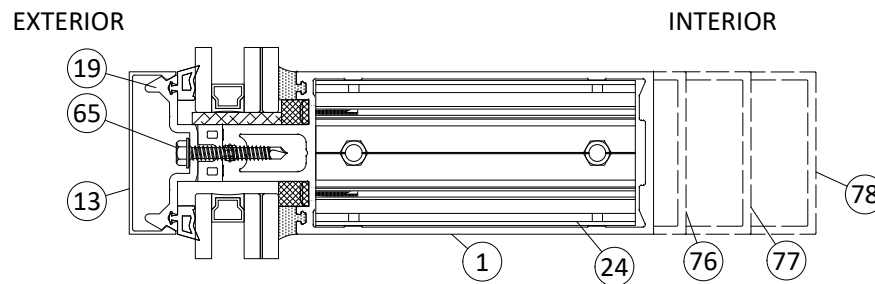
**1**  
**3.0** HEAD  
STANDARD



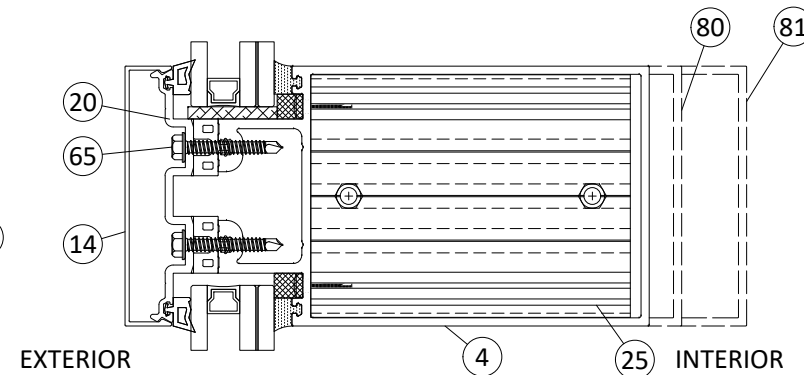
**4**  
**3.0** HEAD  
OPEN-BACK



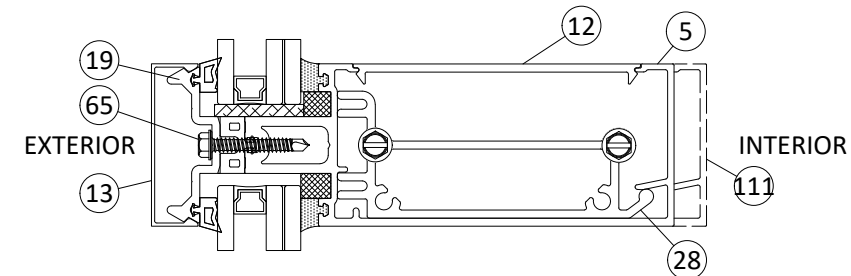
**7**  
**3.0** HORIZ. MULLION  
ROLL-OVER



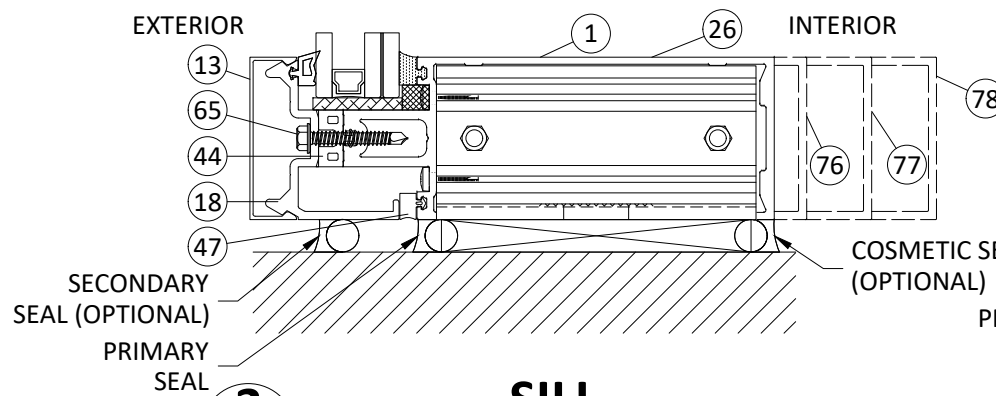
**2**  
**3.0** HORIZ. MULLION  
STANDARD



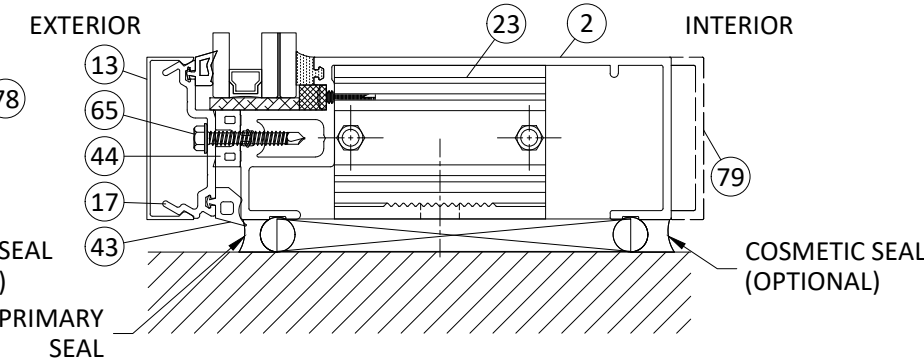
**5**  
**3.0** HORIZ. MULLION  
4" INTERMEDIATE  
SINGLE SPAN ONLY



**8**  
**3.0** HORIZ. MULLION  
ROLL-UNDER



**3**  
**3.0** SILL  
STANDARD



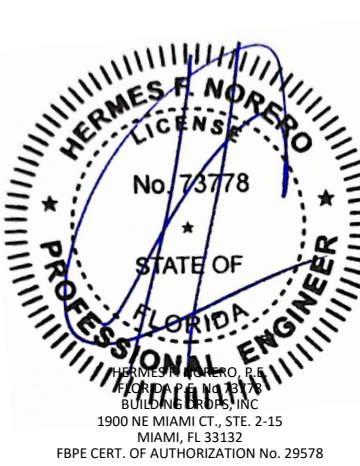
**6**  
**3.0** SILL  
OPEN-BACK

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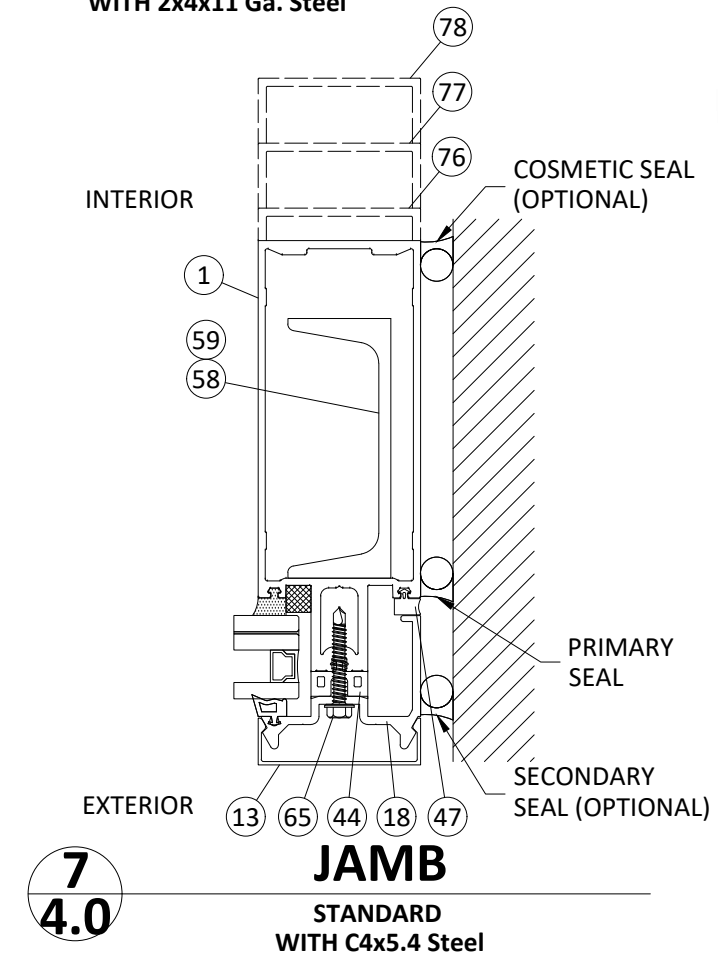
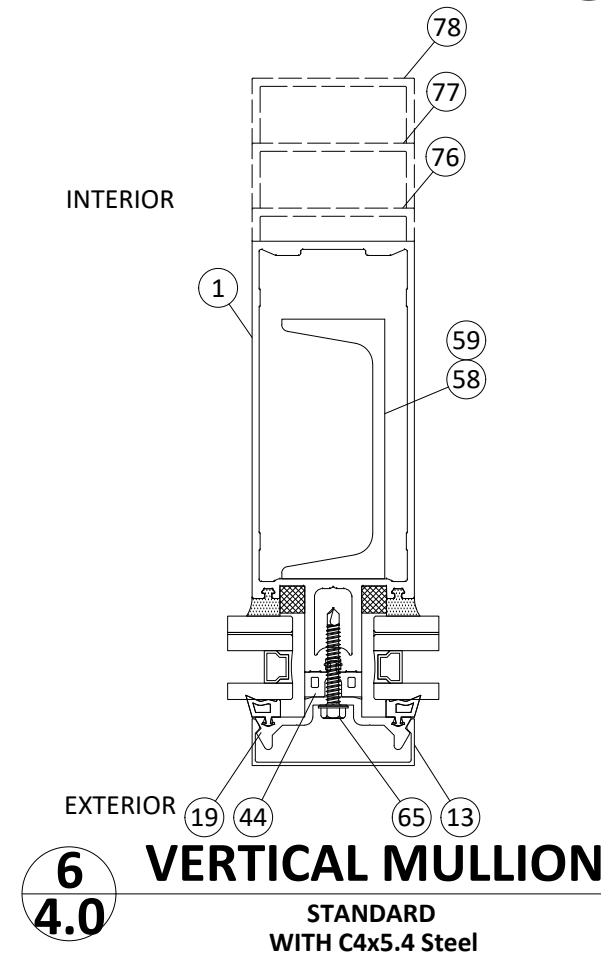
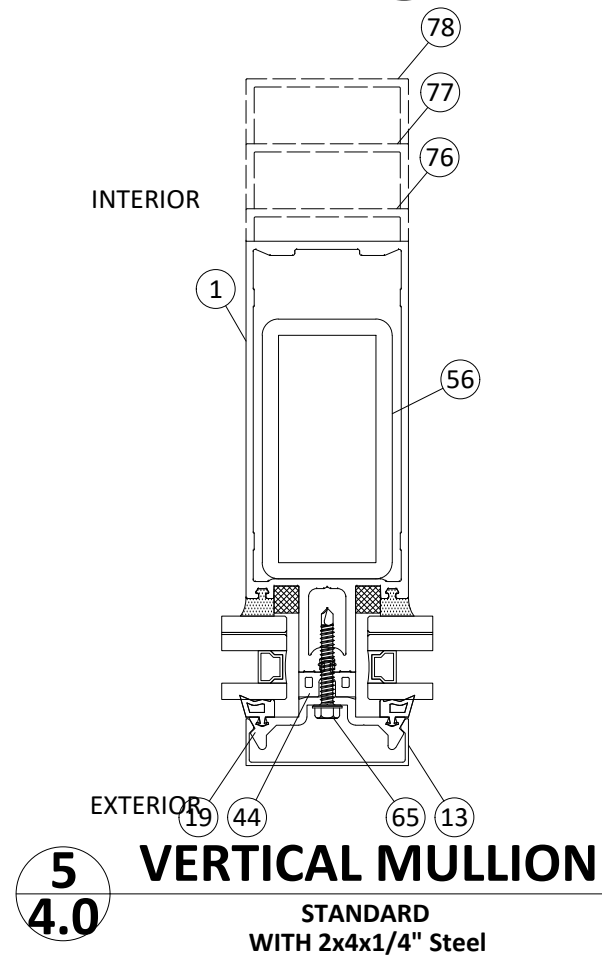
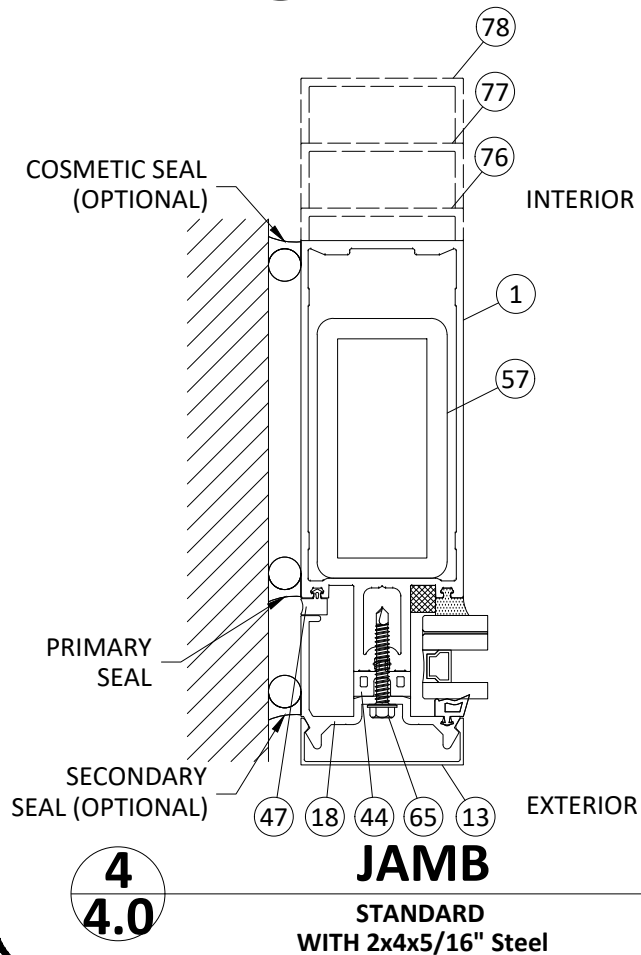
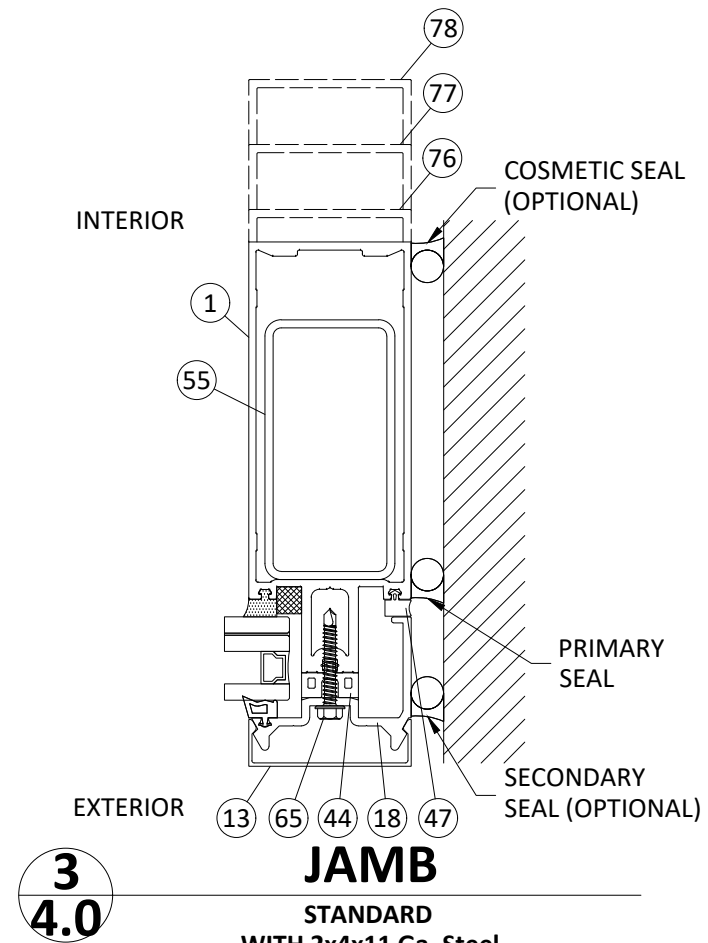
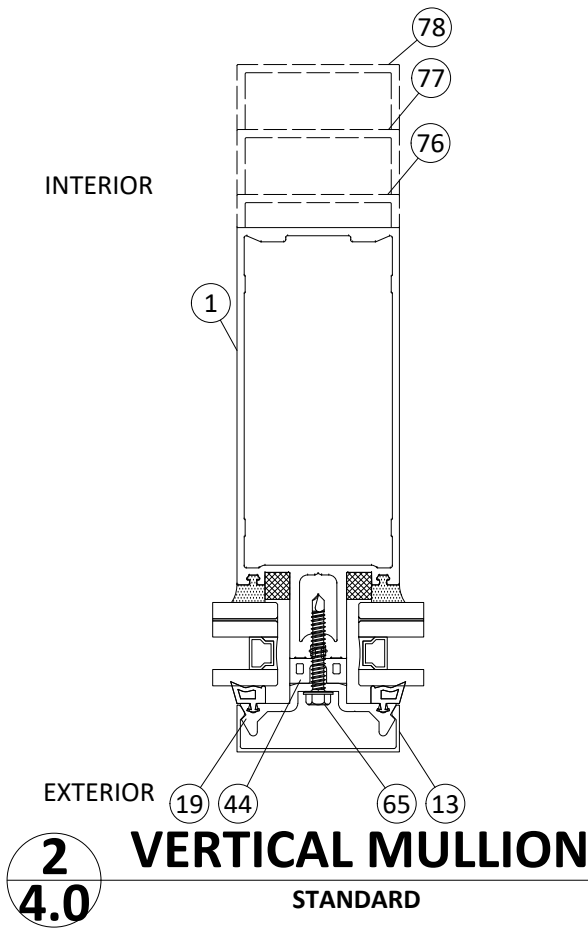
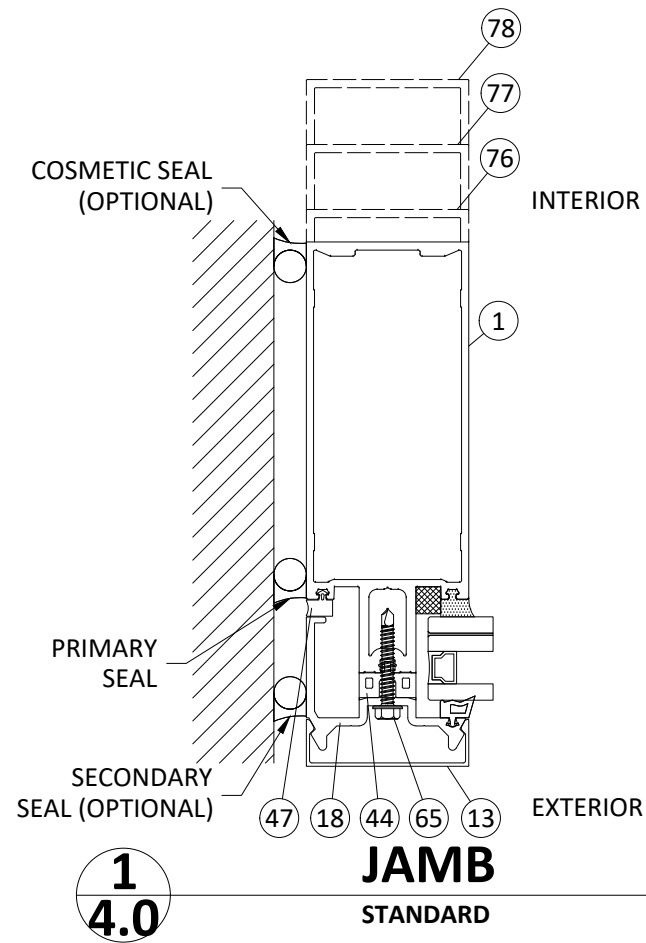
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SCALE: **NTS**  
DWG. #: **TLI016**  
SECTION **3.0**



# VERTICAL DETAILS



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VERTICAL SECTIONS

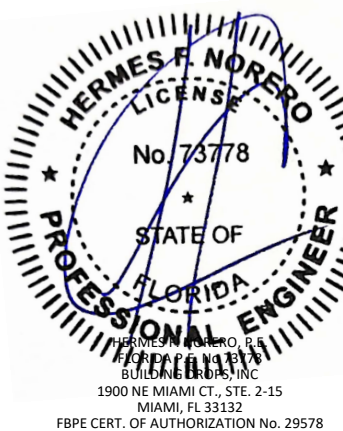
PREPARED BY: BUILDING DROPS, INC.

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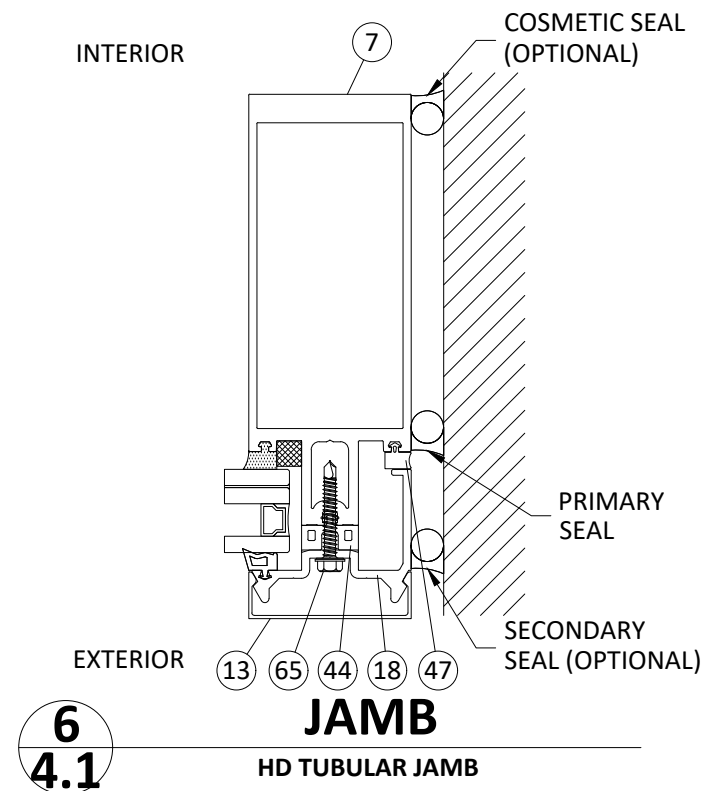
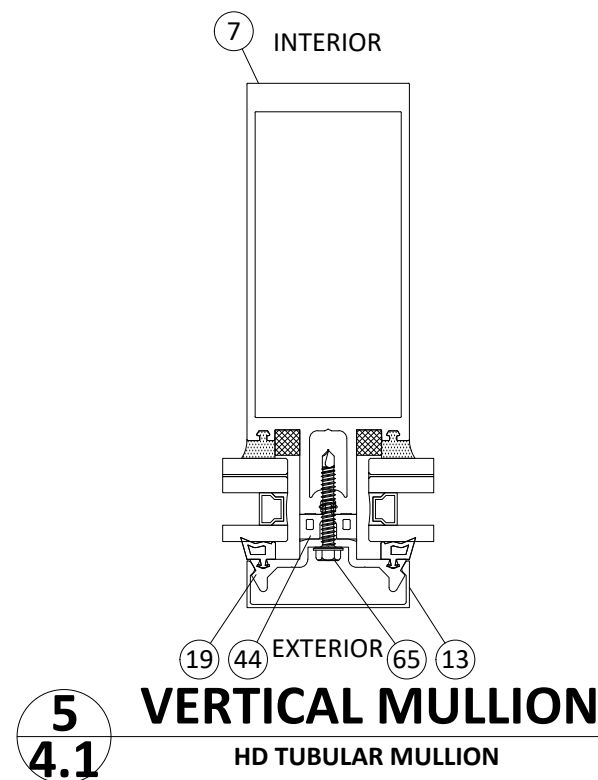
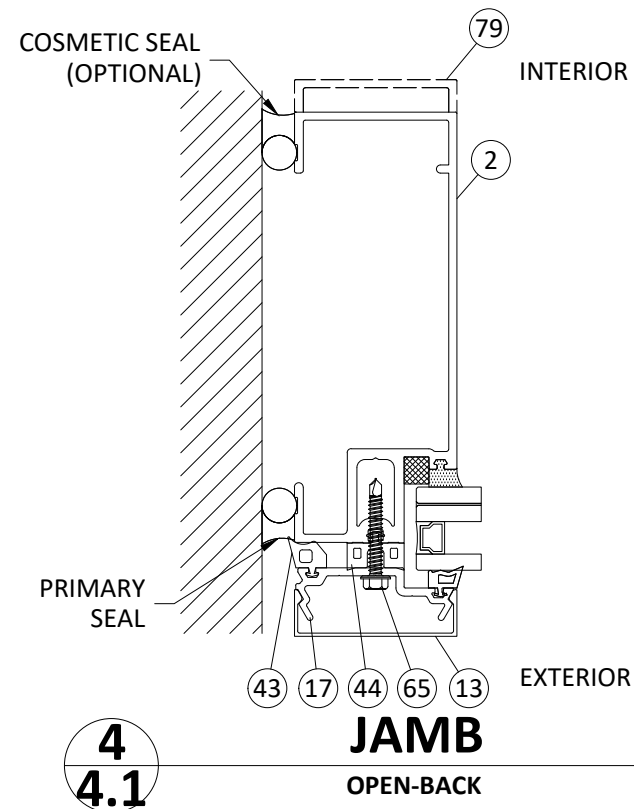
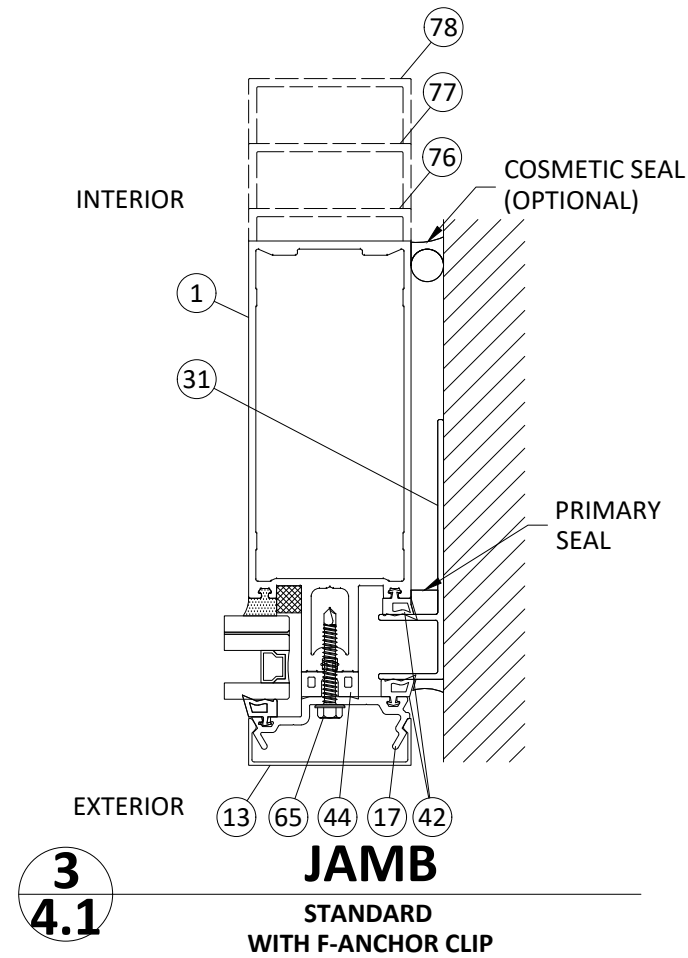
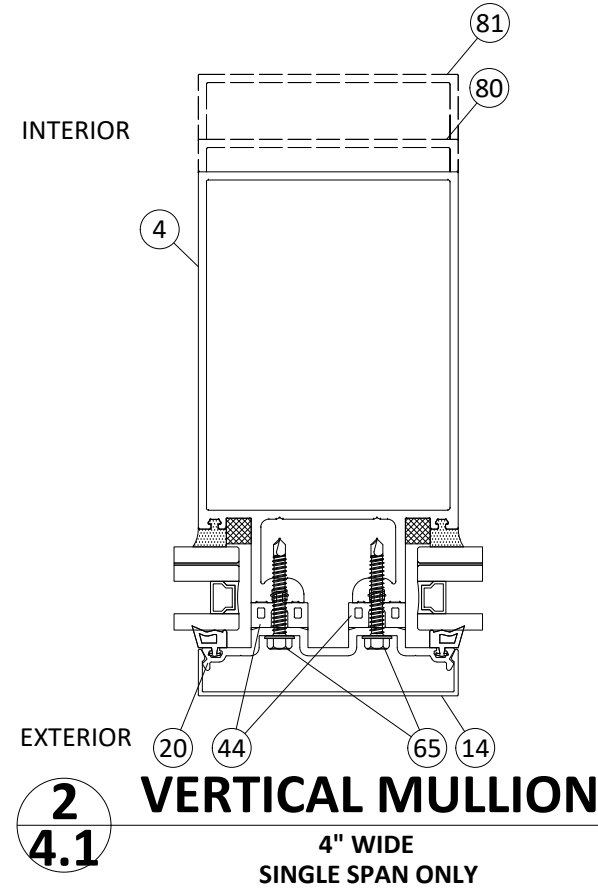
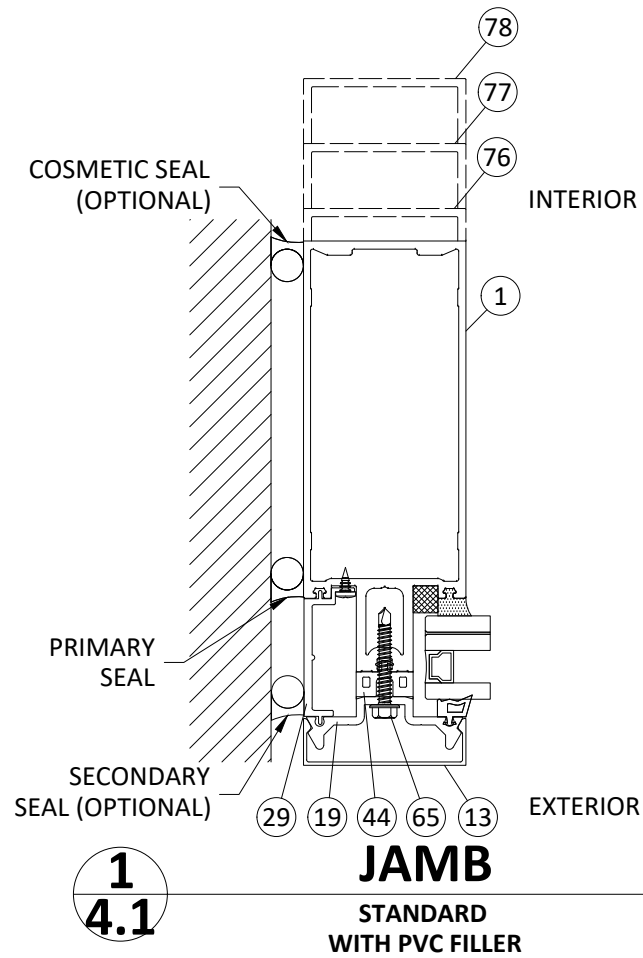
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SCALE: **NTS**

DWG. #: **TLI016**

SECTION  
**4.0**

# VERTICAL DETAILS



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CAPTURED GLASS  
(WZ3) (IMPACT)

VERTICAL SECTIONS

PREPARED BY: BUILDING DROPS, INC.

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REMARKS	BY	DATE
MULLION UPDATE	DI	2/2024

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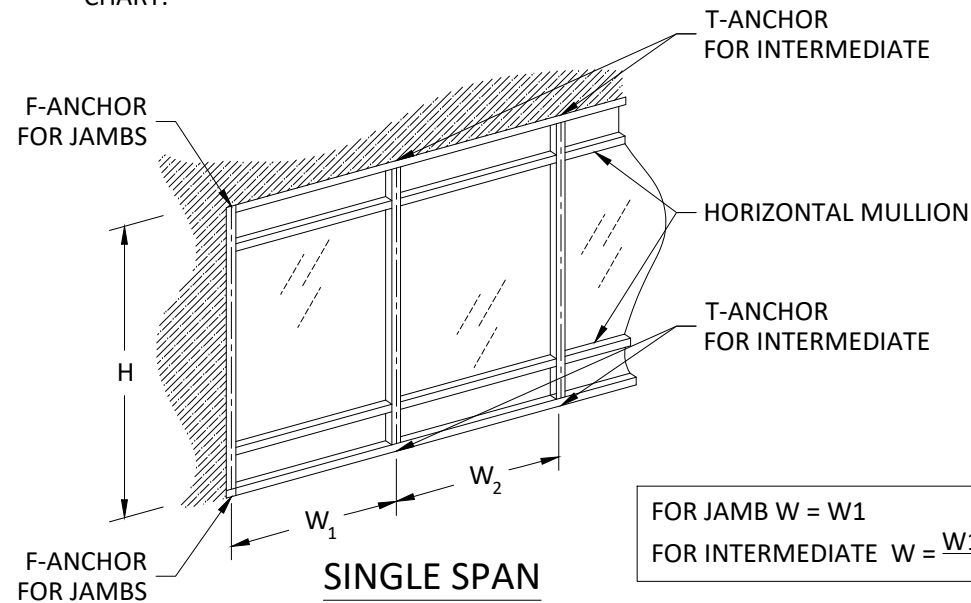
DWG. #: **TLI016**

SECTION  
**4.1**

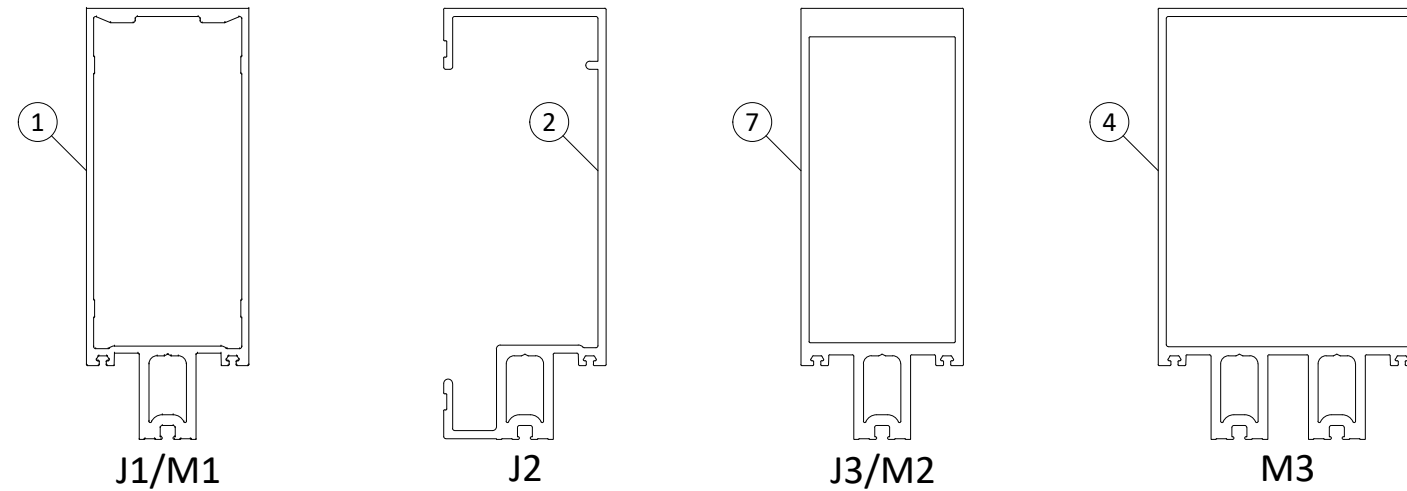
# VERTICAL MULLION CAPACITY

**NOTE:**

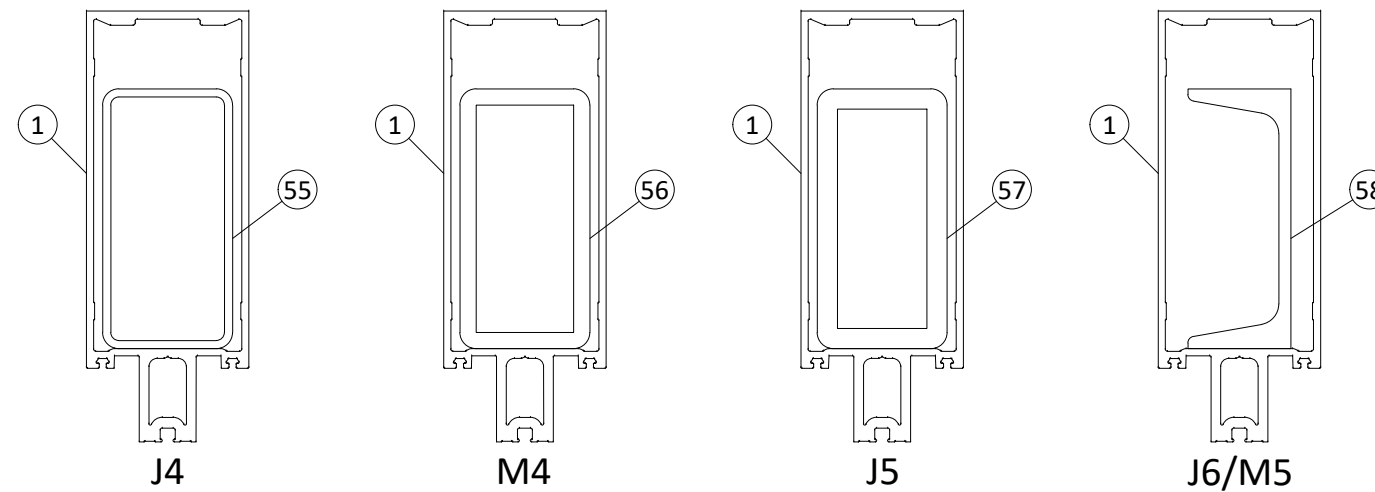
- DESIGN PRESSURES ARE LIMITED BY THE MULLION FIBERSTRESS AND DEFLECTION CAPACITY PER FBC CURRENT SPECIFICATIONS FOR HVHZ
- SELECT DESIGN PRESSURE AND PANEL WIDTH (W) AND OBTAIN THE MAXIMUM ALLOWABLE DESIGN PRESSURE FOR MULLION.
- FOR HORIZONTAL MULLIONS CAPACITY, SEE HORIZONTAL MULLION CHART.
- WHEN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



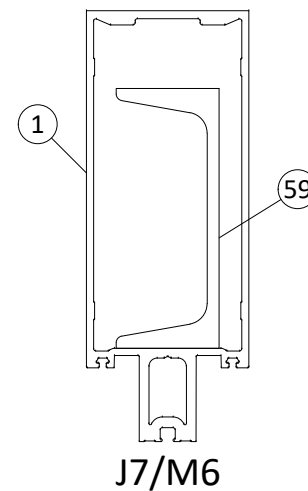
**CASE 1**



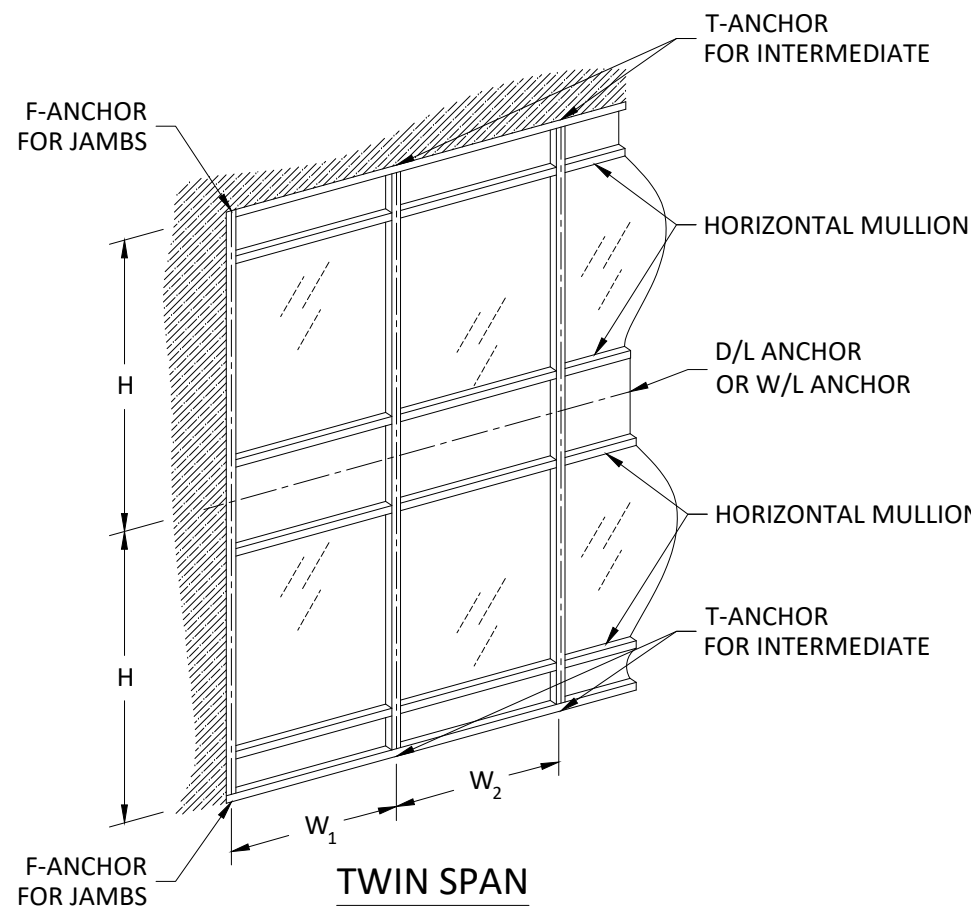
**CASE 2**



**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.

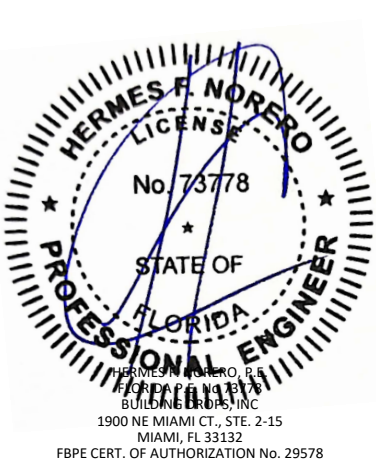
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SECTION **4.2**





# VERTICAL MULLION CAPACITY

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SECTION	<b>4.4</b>

DESIGN PRESSURE TABLE (PSF)					
TRIBUTARY WIDTH (INCH)	SPAN HEIGHT (INCH)	CASE 3			
		J7		M6	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	90	78.0	71.0	78.0	71.0
30		78.0	71.0	78.0	71.0
36		78.0	71.0	78.0	71.0
42		78.0	71.0	78.0	71.0
48		78.0	71.0	78.0	71.0
54		78.0	71.0	78.0	71.0
60		78.0	71.0	78.0	71.0
66		78.0	71.0	78.0	71.0
72		78.0	71.0	78.0	71.0
24		96	78.0	71.0	78.0
30	78.0		71.0	78.0	71.0
36	78.0		71.0	78.0	71.0
42	78.0		71.0	78.0	71.0
48	78.0		71.0	78.0	71.0
54	78.0		71.0	78.0	71.0
60	78.0		71.0	78.0	71.0
66	78.0		71.0	78.0	71.0
72	78.0		71.0	78.0	71.0
24	102		78.0	71.0	78.0
30		78.0	71.0	78.0	71.0
36		78.0	71.0	78.0	71.0
42		78.0	71.0	78.0	71.0
48		78.0	71.0	78.0	71.0
54		78.0	71.0	78.0	71.0
60		78.0	71.0	78.0	71.0
66		78.0	71.0	78.0	71.0
72		78.0	71.0	78.0	71.0
24		108	78.0	71.0	78.0
30	78.0		71.0	78.0	71.0
36	78.0		71.0	78.0	71.0
42	78.0		71.0	78.0	71.0
48	78.0		71.0	78.0	71.0
54	78.0		71.0	78.0	71.0
60	78.0		71.0	78.0	71.0
66	78.0		71.0	78.0	71.0
72	78.0		71.0	78.0	71.0
24	114		78.0	71.0	78.0
30		78.0	71.0	78.0	71.0
36		78.0	71.0	78.0	71.0
42		78.0	71.0	78.0	71.0
48		78.0	71.0	78.0	71.0
54		78.0	71.0	78.0	71.0
60		78.0	71.0	78.0	71.0
66		78.0	71.0	78.0	71.0
72		78.0	71.0	78.0	71.0
24		120	78.0	71.0	78.0
30	78.0		71.0	78.0	71.0
36	78.0		71.0	78.0	71.0
42	78.0		71.0	78.0	71.0
48	78.0		71.0	78.0	71.0
54	78.0		71.0	78.0	71.0
60	78.0		71.0	78.0	71.0
66	78.0		71.0	78.0	71.0
72	78.0		71.0	78.0	71.0

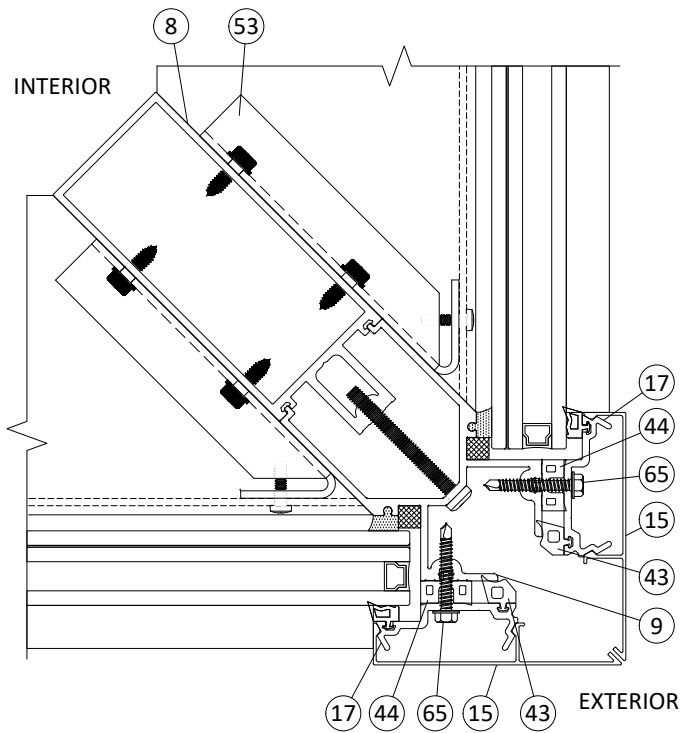
DESIGN PRESSURE TABLE (PSF)					
TRIBUTARY WIDTH (INCH)	SPAN HEIGHT (INCH)	CASE 3			
		J7		M6	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	126	78.0	71.0	78.0	71.0
30		78.0	71.0	78.0	71.0
36		78.0	71.0	78.0	71.0
42		78.0	71.0	78.0	71.0
48		78.0	71.0	78.0	71.0
54		78.0	71.0	78.0	71.0
60		78.0	71.0	78.0	71.0
66		78.0	71.0	78.0	71.0
72		78.0	71.0	78.0	71.0
24		132	78.0	71.0	78.0
30	78.0		71.0	78.0	71.0
36	78.0		71.0	78.0	71.0
42	78.0		71.0	78.0	71.0
48	78.0		71.0	78.0	71.0
54	78.0		71.0	78.0	71.0
60	78.0		71.0	78.0	71.0
66	78.0		71.0	78.0	71.0
72	-		-	78.0	71.0
24	138		78.0	71.0	78.0
30		78.0	71.0	78.0	71.0
36		78.0	71.0	78.0	71.0
42		78.0	71.0	78.0	71.0
48		78.0	71.0	78.0	71.0
54		78.0	71.0	78.0	71.0
60		78.0	71.0	78.0	71.0
66		78.0	71.0	78.0	71.0
72		-	-	78.0	71.0
24		144	78.0	71.0	78.0
30	78.0		71.0	78.0	71.0
36	78.0		71.0	78.0	71.0
42	78.0		71.0	78.0	71.0
48	78.0		71.0	78.0	71.0
54	78.0		71.0	78.0	71.0
60	78.0		71.0	78.0	71.0
66	-		-	78.0	71.0
72	-		-	78.0	71.0
24	150		78.0	71.0	78.0
30		78.0	71.0	78.0	71.0
36		78.0	71.0	78.0	71.0
42		78.0	71.0	78.0	71.0
48		78.0	71.0	78.0	71.0
54		78.0	71.0	78.0	71.0
60		78.0	71.0	78.0	71.0
66		-	-	78.0	71.0
72		78.0	71.0	78.0	71.0
24		156	78.0	71.0	78.0
30	78.0		71.0	78.0	71.0
36	78.0		71.0	78.0	71.0
42	78.0		71.0	78.0	71.0
48	78.0		71.0	78.0	71.0
54	78.0		71.0	78.0	71.0
60	-		-	78.0	71.0
66	-		-	78.0	71.0
72	78.0		71.0	78.0	71.0
24	162		78.0	71.0	78.0
30		78.0	71.0	78.0	71.0
36		78.0	71.0	78.0	71.0
42		78.0	71.0	78.0	71.0
48		78.0	71.0	78.0	71.0
54		78.0	71.0	78.0	71.0
60		-	-	78.0	71.0
66		-	-	78.0	71.0
72		78.0	71.0	78.0	71.0

DESIGN PRESSURE TABLE (PSF)						
TRIBUTARY WIDTH (INCH)	SPAN HEIGHT (INCH)	CASE 3				
		J7		M6		
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
24	168	78.0	71.0	78.0	71.0	
30		78.0	71.0	78.0	71.0	
36		78.0	71.0	78.0	71.0	
42		78.0	71.0	78.0	71.0	
48		78.0	71.0	78.0	71.0	
54		78.0	71.0	78.0	71.0	
60		-	-	78.0	71.0	
61.25		-	-	78.0	71.0	
24		174	78.0	71.0	78.0	71.0
30			78.0	71.0	78.0	71.0
36	78.0		71.0	78.0	71.0	
42	78.0		71.0	78.0	71.0	
48	78.0		71.0	78.0	71.0	
54	-		-	78.0	71.0	
60	-		-	78.0	71.0	
61.25	-		-	78.0	71.0	
24	180		78.0	71.0	78.0	71.0
30			78.0	71.0	78.0	71.0
36		78.0	71.0	78.0	71.0	
42		78.0	71.0	78.0	71.0	
48		78.0	71.0	78.0	71.0	
54		-	-	78.0	71.0	
60		-	-	78.0	71.0	
61.25		-	-	78.0	71.0	
24		186	78.0	71.0	78.0	71.0
30			78.0	71.0	78.0	71.0
36	78.0		71.0	78.0	71.0	
42	78.0		71.0	78.0	71.0	
48	78.0		71.0	78.0	71.0	
54	-		-	78.0	71.0	
60	78.0		71.0	78.0	71.0	
61.25	78.0		71.0	78.0	71.0	
72	78.0		71.0	78.0	71.0	
24	192		78.0	71.0	78.0	71.0
30		78.0	71.0	78.0	71.0	
36		78.0	71.0	78.0	71.0	
42		78.0	71.0	78.0	71.0	
48		74.1	67.5	78.0	71.0	
54		64.9	59.0	74.1	67.4	
60		-	-	65.8	59.9	
61.25		-	-	65.8	59.9	
72		78.0	71.0	78.0	71.0	
24		198	78.0	71.0	78.0	71.0
30	78.0		71.0	78.0	71.0	
36	78.0		71.0	78.0	71.0	
42	67.6		61.5	77.2	70.3	
48	-		-	67.5	61.5	
54	-		-	67.5	61.5	
60	78.0		71.0	78.0	71.0	
61.25	78.0		71.0	78.0	71.0	
72	78.0		71.0	78.0	71.0	
24	204		78.0	71.0	78.0	71.0
30		78.0	71.0	78.0	71.0	
36		72.1	65.6	78.0	71.0	
42		61.8	56.3	70.6	64.2	
48		-	-	61.8	56.2	
54		-	-	61.8	56.2	
60		78.0	71.0	78.0	71.0	
61.25		78.0	71.0	78.0	71.0	
72		78.0	71.0	78.0	71.0	
24		210	78.0	71.0	78.0	71.0
30	78.0		71.0	78.0	71.0	
36	66.1		60.2	75.5	68.7	
42	56.7		51.6	64.7	58.9	
48	-		-	56.6	51.5	
54	-		-	56.6	51.5	
60	78.0		71.0	78.0	71.0	
61.25	72.9		66.3	78.0	71.0	
72	60.7		55.3	69.4	63.1	
24	216		52.1	47.4	59.5	54.1
30		-	-	52.0	47.4	
36		-	-	52.0	47.4	
42		-	-	52.0	47.4	
48		-	-	52.0	47.4	

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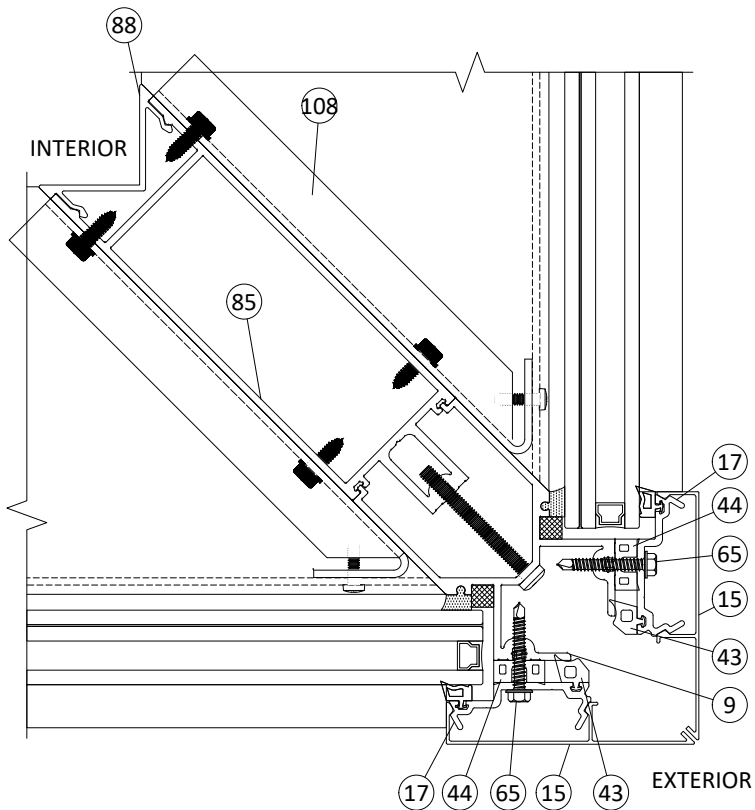


SEE C1-C3 CAPACITY ON SECTION 4.7

**1**  
**4.5**

**CORNER**

STANDARD  
90 DEGREE OUTSIDE CORNER



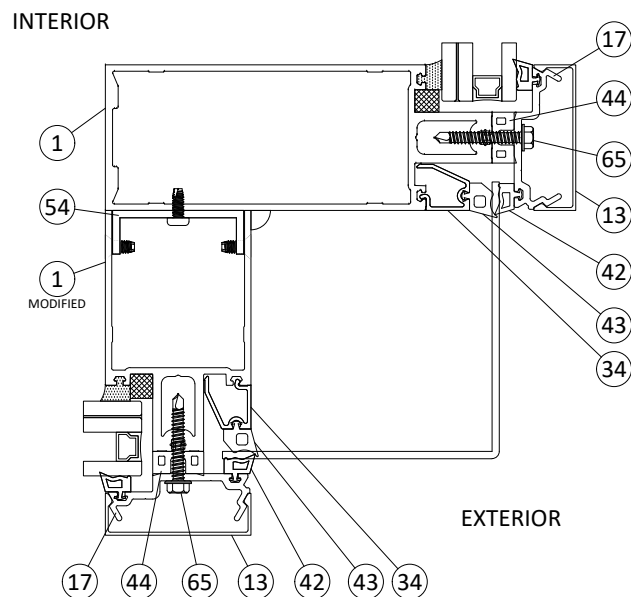
SEE C1-C3 CAPACITY ON SECTION 4.7

**4**  
**4.5**

**CORNER**

90 DEGREE ANGLED BACK  
90 DEGREE OUTSIDE CORNER

**CORNER DETAILS**

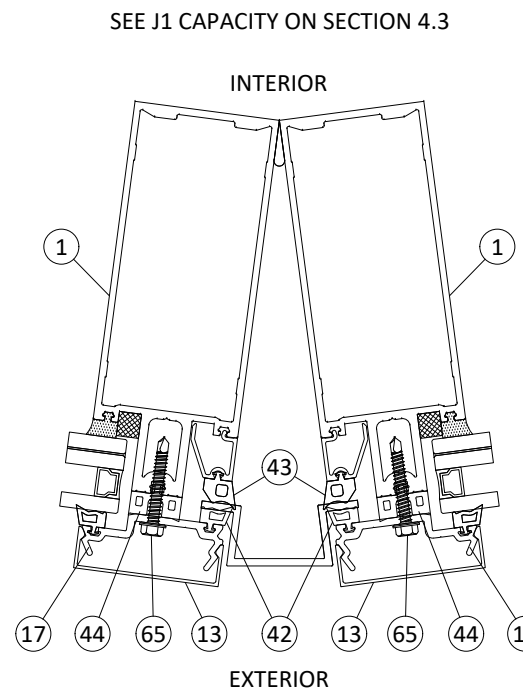


SEE M1 CAPACITY ON SECTION 4.3

**2**  
**4.5**

**CORNER**

90 DEGREE OUTSIDE CORNER



SEE J1 CAPACITY ON SECTION 4.3

**3**  
**4.5**

**CORNER**

SPLAYED CORNER

NOTE:  
 TTHE 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 -  
 CAPTURED GLASS  
 (WZ3) (IMPACT)

VERTICAL SECTIONS

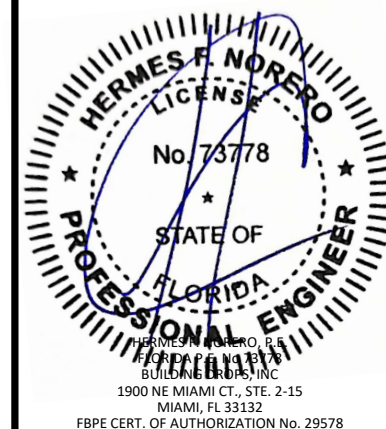
PREPARED BY:

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

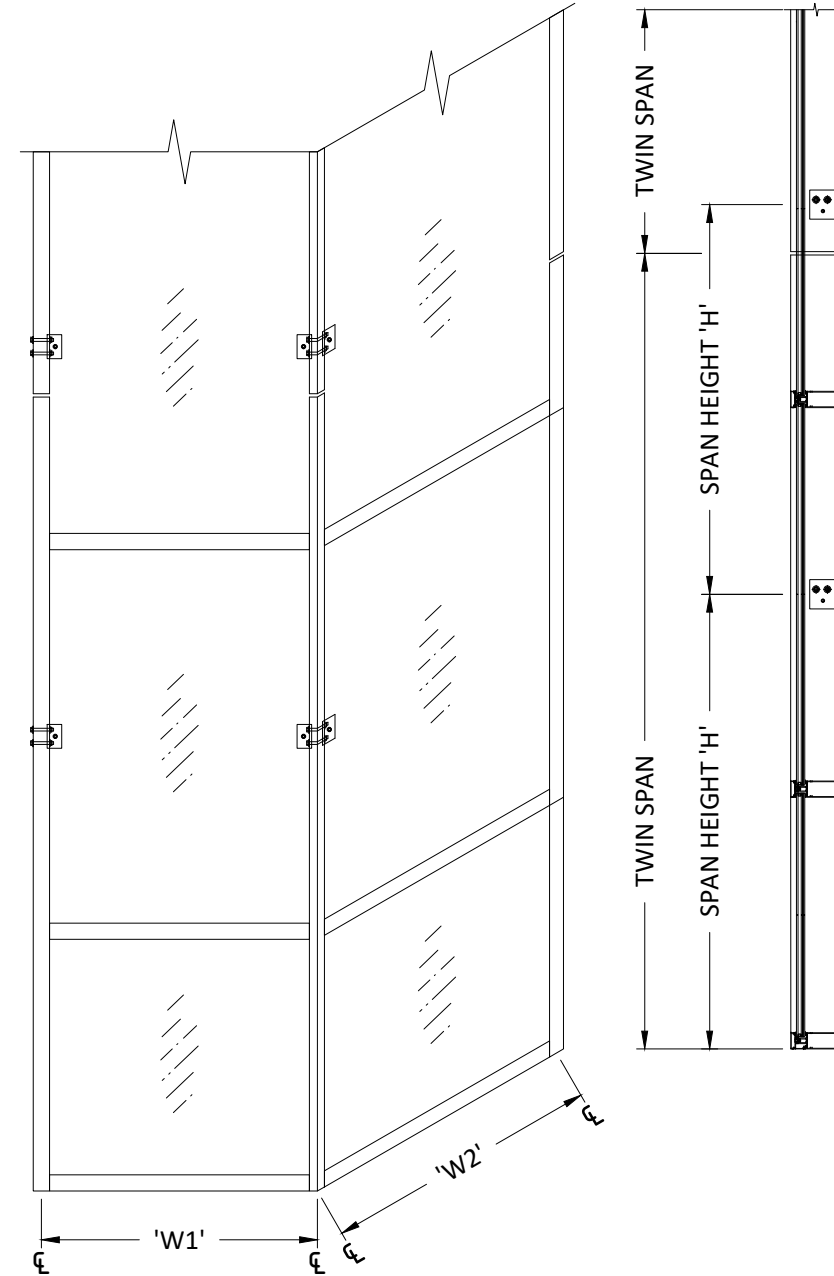
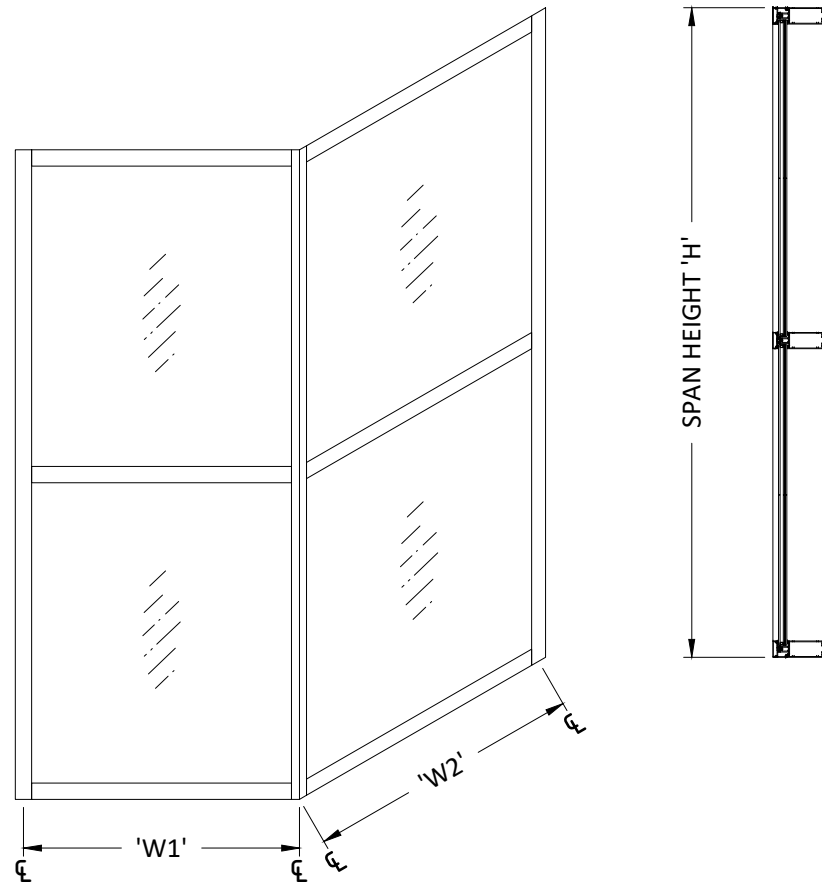
DWG. #: **TLI016**

SECTION  
**4.5**

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

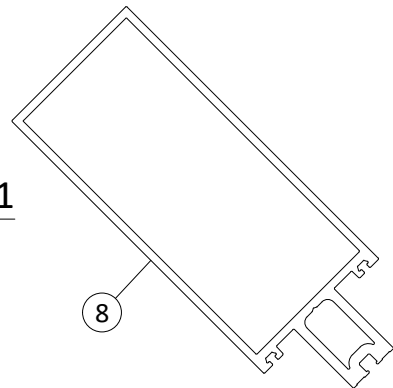
# CORNER MULLION CAPACITY

CORNER MULLION WITH REINFORCING  
TWIN SPAN WITH HORIZONTAL



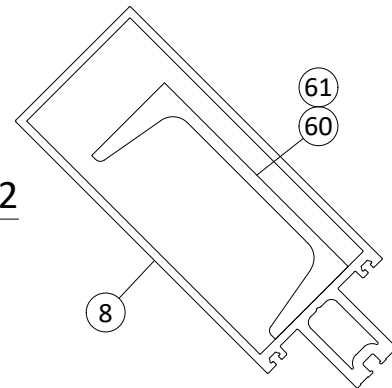
$$W = \frac{W1 + W2}{2}$$

CASE 1



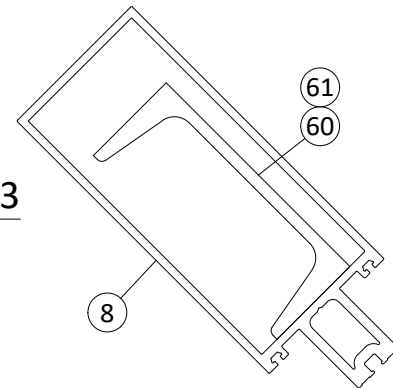
C1

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 -  
CAPTURED GLASS  
(WZ3) (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  
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. #: **TLI016**

SECTION  
**4.6**

# CORNER MULLION CAPACITY

**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

DESIGN PRESSURE TABLE (PSF)						
TRIBUTARY WIDTH (INCH)	SPAN HEIGHT (INCH)	CASE 1	CASE 2	CASE 3		
		C1	C2	C3		
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+)	INT. (-)	
24	90	70.0	90.0	78.0	71.0	
30		70.0	90.0	78.0	71.0	
36		70.0	90.0	78.0	71.0	
42		70.0	90.0	78.0	71.0	
48		70.0	90.0	78.0	71.0	
54		70.0	90.0	78.0	71.0	
60		70.0	90.0	78.0	71.0	
66		70.0	90.0	78.0	71.0	
72		70.0	90.0	78.0	71.0	
24		96	70.0	90.0	78.0	71.0
30			70.0	90.0	78.0	71.0
36			70.0	90.0	78.0	71.0
42	70.0		90.0	78.0	71.0	
48	70.0		90.0	78.0	71.0	
54	70.0		90.0	78.0	71.0	
60	70.0		90.0	78.0	71.0	
66	70.0		90.0	78.0	71.0	
72	70.0		90.0	78.0	71.0	
24	102		70.0	90.0	78.0	71.0
30			70.0	90.0	78.0	71.0
36			70.0	90.0	78.0	71.0
42		70.0	90.0	78.0	71.0	
48		70.0	90.0	78.0	71.0	
54		70.0	90.0	78.0	71.0	
60		70.0	90.0	78.0	71.0	
66		69.9	90.0	78.0	71.0	
72		-	90.0	78.0	71.0	
24		108	70.0	90.0	78.0	71.0
30			70.0	90.0	78.0	71.0
36			70.0	90.0	78.0	71.0
42	70.0		90.0	78.0	71.0	
48	70.0		90.0	78.0	71.0	
54	70.0		90.0	78.0	71.0	
60	68.5		90.0	78.0	71.0	
66	62.3		90.0	78.0	71.0	
72	-		90.0	78.0	71.0	
24	114		70.0	90.0	78.0	71.0
30			70.0	90.0	78.0	71.0
36			70.0	90.0	78.0	71.0
42		70.0	90.0	78.0	71.0	
48		70.0	90.0	78.0	71.0	
54		68.4	90.0	78.0	71.0	
60		61.5	90.0	78.0	71.0	
61.25		60.3	90.0	78.0	71.0	
66		-	90.0	78.0	71.0	
72		-	90.0	78.0	71.0	
24		119	70.0	90.0	78.0	71.0
30			70.0	90.0	78.0	71.0
36	70.0		90.0	78.0	71.0	
42	70.0		90.0	78.0	71.0	
48	70.0		90.0	78.0	71.0	
54	62.7		90.0	78.0	71.0	
60	56.5		90.0	78.0	71.0	
61.25	55.3		90.0	78.0	71.0	
66	-		90.0	78.0	71.0	
72	-		90.0	78.0	71.0	

DESIGN PRESSURE TABLE (PSF)						
TRIBUTARY WIDTH (INCH)	SPAN HEIGHT (INCH)	CASE 1	CASE 2	CASE 3		
		C1	C2	C3		
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+)	INT. (-)	
24	126	70.0	90.0	78.0	71.0	
30		70.0	90.0	78.0	71.0	
36		70.0	90.0	78.0	71.0	
42		70.0	90.0	78.0	71.0	
48		63.0	90.0	78.0	71.0	
54		56.0	90.0	78.0	71.0	
60		-	90.0	78.0	71.0	
61.25		-	90.0	78.0	71.0	
66		-	90.0	78.0	71.0	
72		-	89.1	78.0	71.0	
24		132	70.0	90.0	78.0	71.0
30			70.0	90.0	78.0	71.0
36	70.0		90.0	78.0	71.0	
42	65.6		90.0	78.0	71.0	
48	57.4		90.0	78.0	71.0	
54	51.0		90.0	78.0	71.0	
60	-		90.0	78.0	71.0	
61.25	-		90.0	78.0	71.0	
66	-		88.5	78.0	71.0	
72	-		-	78.0	71.0	
24	138		70.0	90.0	78.0	71.0
30			70.0	90.0	78.0	71.0
36		70.0	90.0	78.0	71.0	
42		60.0	90.0	78.0	71.0	
48		52.5	90.0	78.0	71.0	
54		-	90.0	78.0	71.0	
60		-	89.1	78.0	71.0	
61.25		-	87.3	78.0	71.0	
66		-	-	78.0	71.0	
72		-	-	78.0	71.0	
24		144	70.0	90.0	78.0	71.0
30			70.0	90.0	78.0	71.0
36	64.3		90.0	78.0	71.0	
42	55.1		90.0	78.0	71.0	
48	48.2		90.0	78.0	71.0	
54	-		90.0	78.0	71.0	
60	-		81.8	78.0	71.0	
61.25	-		80.2	78.0	71.0	
66	-		-	78.0	71.0	
72	-		-	78.0	71.0	
24	148.25		70.0	90.0	78.0	71.0
30			70.0	90.0	78.0	71.0
36		60.4	90.0	78.0	71.0	
42		51.7	90.0	78.0	71.0	
48		45.3	90.0	78.0	71.0	
54		-	85.4	78.0	71.0	
60		-	76.9	78.0	71.0	
61.25		-	75.3	78.0	71.0	
66		-	-	78.0	71.0	
72		-	-	78.0	71.0	
24		156	70.0	90.0	78.0	71.0
30			62.2	90.0	78.0	71.0
36	51.8		90.0	78.0	71.0	
42	44.4		90.0	78.0	71.0	
48	-		82.5	78.0	71.0	
54	-		73.3	78.0	71.0	
60	-		-	78.0	71.0	
61.25	-		-	78.0	71.0	

DESIGN PRESSURE TABLE (PSF)							
TRIBUTARY WIDTH (INCH)	SPAN HEIGHT (INCH)	CASE 1	CASE 2	CASE 3			
		C1	C2	C3			
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+)	INT. (-)		
24	162	69.4	90.0	78.0	71.0		
30		55.5	90.0	78.0	71.0		
36		46.3	90.0	78.0	71.0		
42		39.7	84.2	78.0	71.0		
48		-	73.6	78.0	71.0		
54		-	65.5	78.0	71.0		
60		-	-	78.0	71.0		
61.25		-	-	78.0	71.0		
24		168	61.6	90.0	78.0	71.0	
30			49.3	90.0	78.0	71.0	
36			41.0	87.1	78.0	71.0	
42			35.2	74.7	78.0	71.0	
48	-		65.3	78.0	71.0		
54	-		58.1	78.0	71.0		
57.25	-		-	78.0	71.0		
24	174		54.9	90.0	78.0	71.0	
30			43.9	90.0	78.0	71.0	
36			36.6	77.7	78.0	71.0	
42			-	66.6	78.0	71.0	
48			-	58.3	78.0	71.0	
54		-	-	78.0	71.0		
57.25		-	-	78.0	71.0		
24		180	49.2	90.0	78.0	71.0	
30			39.3	83.5	78.0	71.0	
36			32.8	69.6	78.0	71.0	
42			-	59.6	78.0	71.0	
48			-	52.2	78.0	71.0	
54	-		-	74.7	68.0		
24	186		44.2	90.0	78.0	71.0	
30			35.4	75.1	78.0	71.0	
36			29.5	62.6	78.0	71.0	
42			-	53.6	78.0	71.0	
48			-	46.9	76.2	69.3	
24			192	39.9	84.7	78.0	71.0
30		31.9		67.7	78.0	71.0	
36		26.6		56.4	78.0	71.0	
42		-		48.4	78.0	71.0	
48		-		-	69.2	63.0	
24		198		36.1	76.6	78.0	71.0
30				28.9	61.3	78.0	71.0
36	24.1			51.1	78.0	71.0	
42	-			43.8	72.2	65.7	
48	-			-	63.1	57.5	
24	204			32.8	69.6	78.0	71.0
30				26.2	55.7	78.0	71.0
36			-	46.4	77.0	70.1	
42			-	39.8	66.0	60.1	
48			-	-	57.7	52.5	
24			210	29.9	63.4	78.0	71.0
30				23.9	50.7	78.0	71.0
36		-		42.3	70.6	64.2	
42		-		36.2	60.5	55.1	
24		216		27.3	57.9	78.0	71.0
30				21.8	46.3	77.8	70.8
36				-	38.6	64.8	59.0
42	-			33.1	55.6	50.6	

TITLE: SERIES 400T CURTAIN WALL - CAPTURED GLASS (WZ3) (IMPACT)

VERTICAL SECTIONS

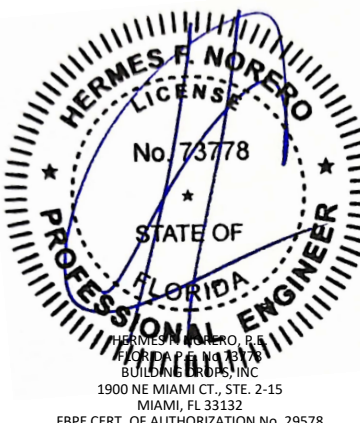
PREPARED BY: BUILDING DROPS, INC.

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

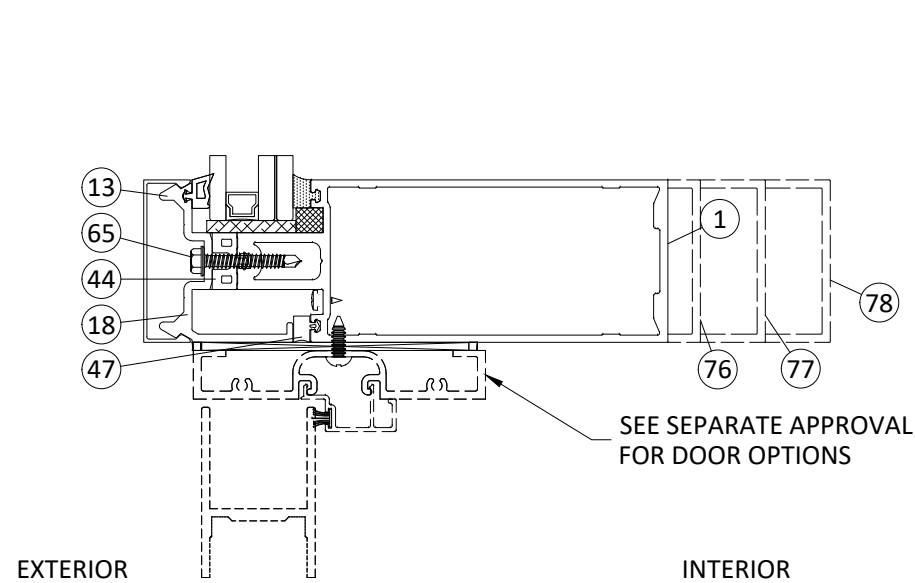
DWG. #: **TLI016**

SECTION: **4.7**

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# DOOR SECTION DETAILS



EXTERIOR

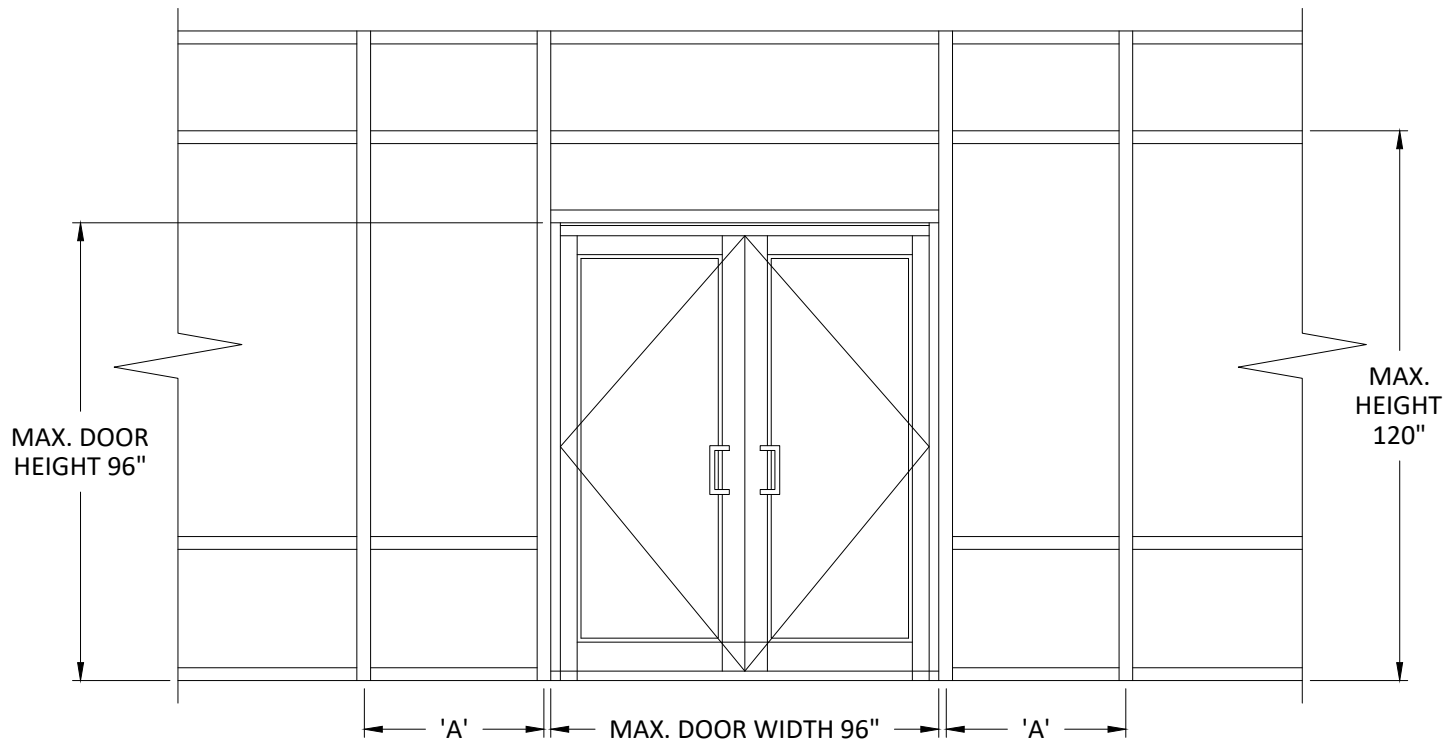
INTERIOR

SEE SEPARATE APPROVAL FOR DOOR OPTIONS

**1**  
**5.0**

## DOOR HEAD

WITH TRANSOM  
STANDARD

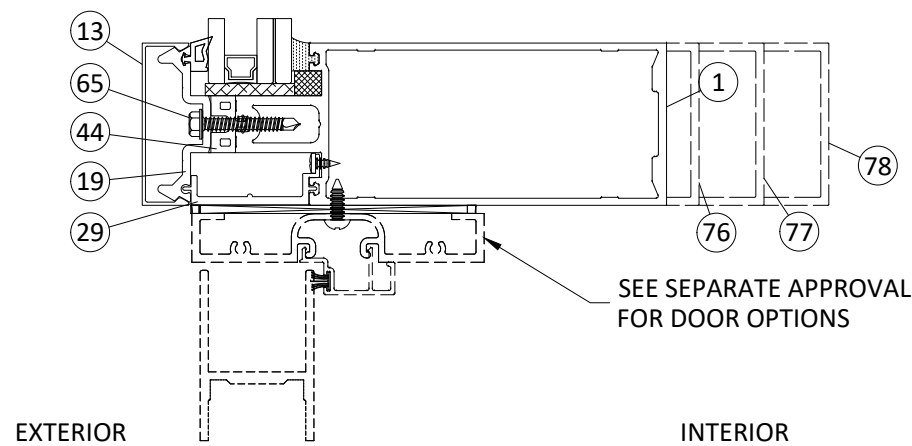


MAX. DOOR  
HEIGHT 96"

MAX.  
HEIGHT  
120"

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

SIDELITE WIDTH "A"	DESIGN PRESSURE (PSF)
49.25	+70 / -70



EXTERIOR

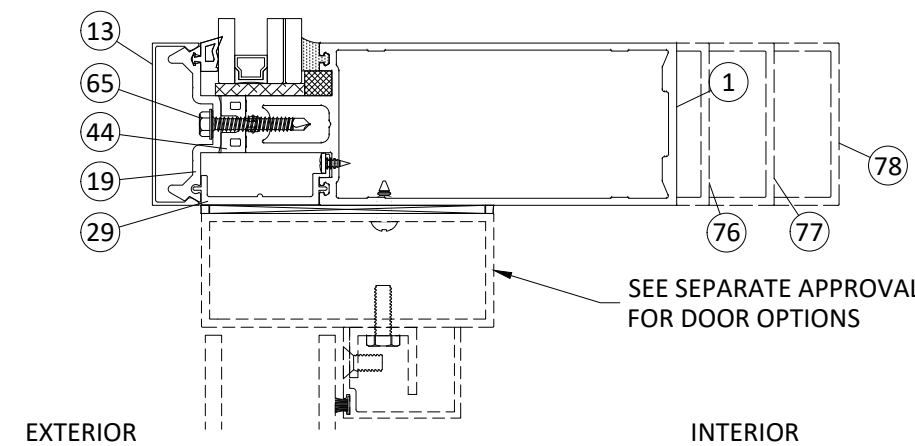
INTERIOR

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 -  
CAPTURED GLASS  
(WZ3) (IMPACT)

DOOR SECTION DETAILS

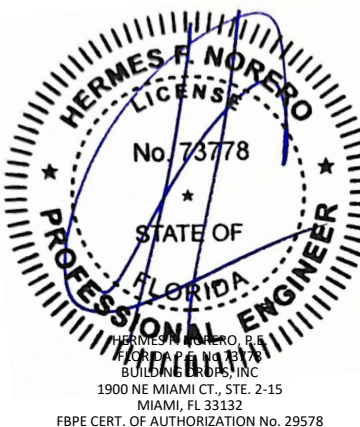
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FL #: **FL46180**

DATE: **12.19.23**

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

SCALE: **NTS**

DWG. #: **TLI016**

SECTION

**5.0**

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TITLE: SERIES 400T CURTAIN WALL -  
 CAPTURED GLASS  
 (WZ3) (IMPACT)  
 DOOR SECTION DETAILS

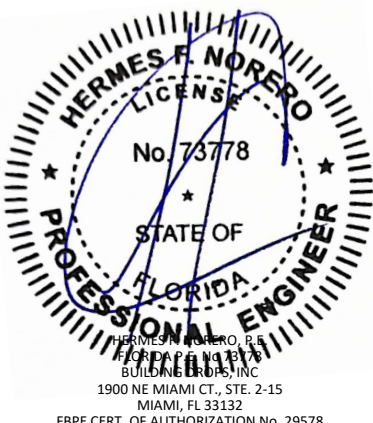
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FL #:

**FL46180**

DATE: 12.19.23

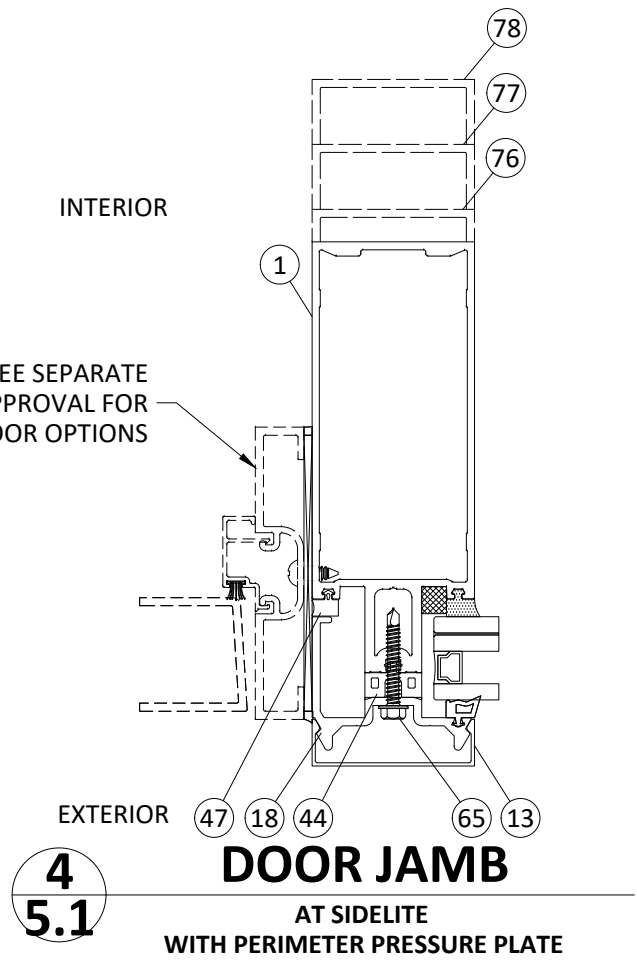
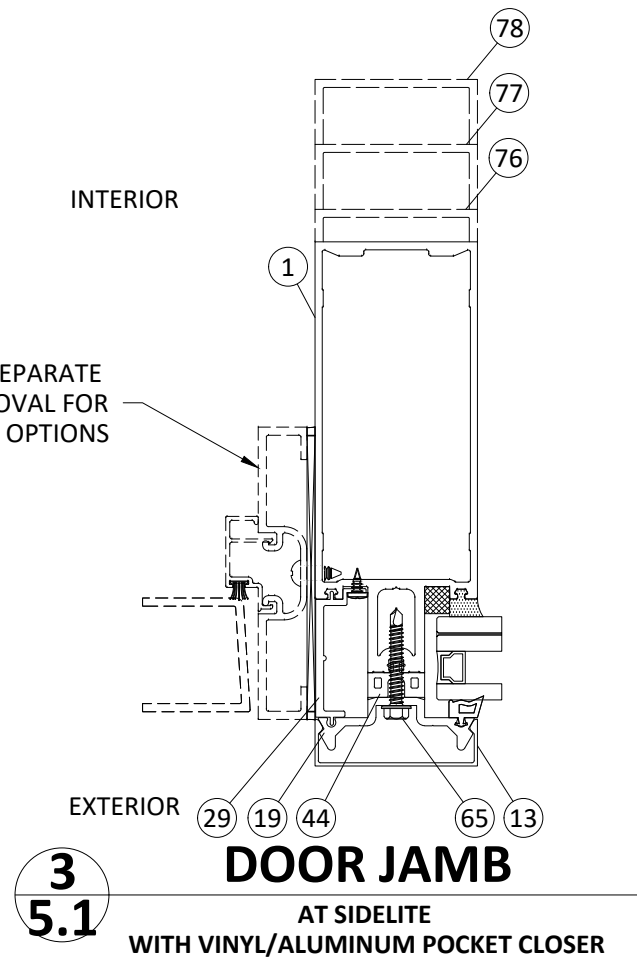
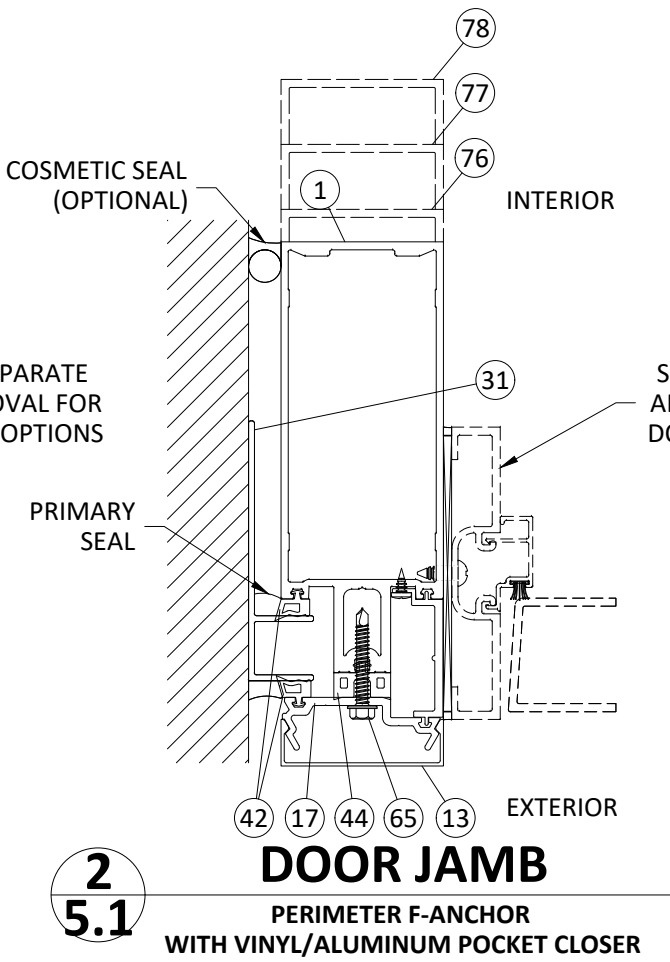
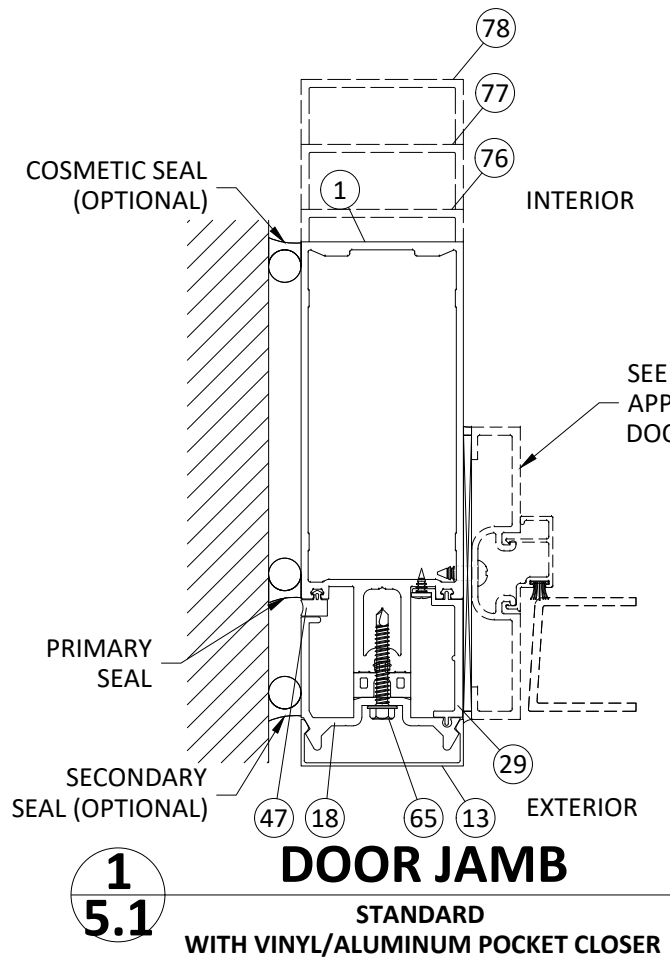
DWG. BY: MS	CHK. BY: HFN
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SCALE: NTS

DWG. #: TLI016

SECTION

**5.1**



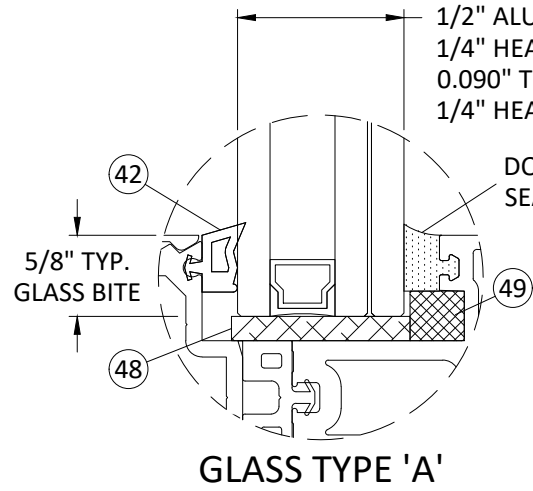
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# GLAZING DETAILS AND CAPACITY (L.M.I.)

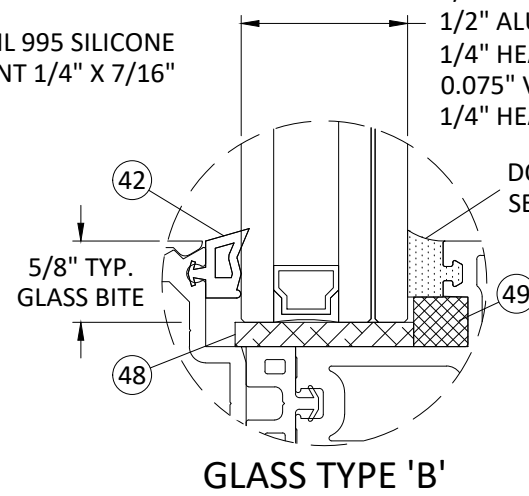
**TUBELITE**  
 DEPENDABLE  
 LEADERS IN ECO-EFFICIENT STOREFRONT,  
 CURTAINWALL AND ENTRANCE SYSTEMS

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

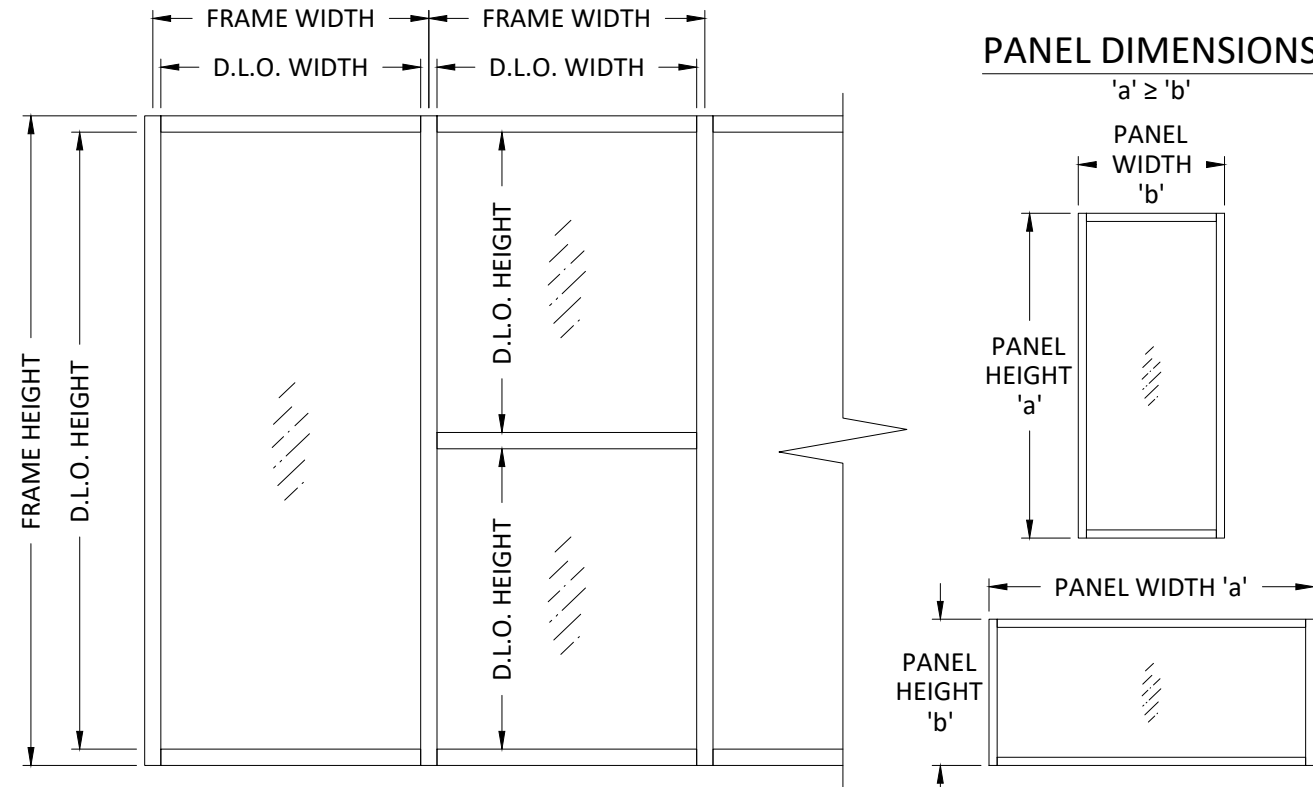
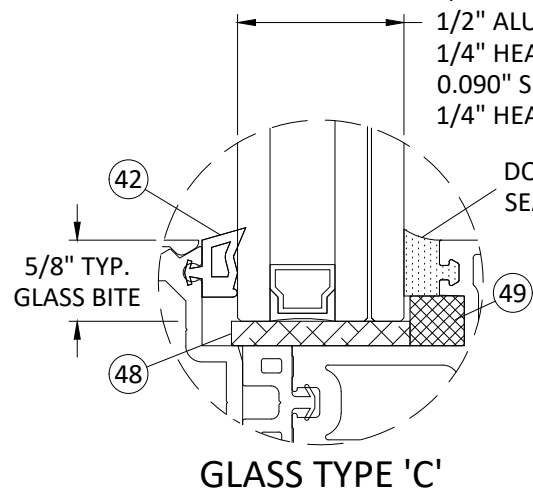
1-5/16" INSULATED LAMINATED  
 GLASS CONSISTING OF:  
 1/4" TEMPERED  
 1/2" ALUMINUM SPACER  
 1/4" HEAT STRENGTHENED  
 0.090" TROSIFOL BY KURARAY  
 1/4" HEAT STRENGTHENED



1-5/16" INSULATED LAMINATED  
 GLASS CONSISTING OF:  
 1/4" TEMPERED  
 1/2" ALUMINUM SPACER  
 1/4" HEAT STRENGTHENED  
 0.075" VANCEVA BY EASTMAN  
 1/4" HEAT STRENGTHENED



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



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.
- D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN DESIGN PRESSURE TABLES.

TITLE: SERIES 400T CURTAIN WALL - CAPTURED GLASS (WZ3) (IMPACT)

GLAZING 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. #: **TLI016**

SECTION

**6.0**

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# 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

GLASS LOAD CAPACITY (PSF)					
NOMINAL DIMS.		TYPE 'A'	TYPE 'B'	TYPE 'C'	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
27.5	67	65.0	70.0	90.0	
33.5		65.0	70.0	90.0	
39.5		65.0	70.0	90.0	
45.5		65.0	70.0	90.0	
46.75		65.0	70.0	90.0	
51.5		59.0	63.5	90.0	
57.5		52.8	56.9	90.0	
58.75		51.7	55.7	90.0	
63.5		47.9	51.5	83.3	
69.5		-	47.1	76.2	
27.5		73	65.0	70.0	90.0
33.5			65.0	70.0	90.0
39.5	65.0		70.0	90.0	
45.5	65.0		70.0	90.0	
46.75	65.0		70.0	90.0	
51.5	59.0		63.5	90.0	
57.5	52.8		56.9	90.0	
58.75	51.7		55.7	90.0	
63.5	-		51.5	83.3	
69.5	-		47.1	76.1	
27.5	79		65.0	70.0	90.0
33.5			65.0	70.0	90.0
39.5		65.0	70.0	90.0	
45.5		65.0	70.0	90.0	
46.75		65.0	70.0	90.0	
51.5		59.0	63.5	90.0	
57.5		-	56.9	90.0	
58.75		-	55.7	90.0	
63.5		-	51.5	83.3	
69.5		-	47.1	76.1	
27.5		85	65.0	70.0	90.0
33.5			65.0	70.0	90.0
39.5	65.0		70.0	90.0	
45.5	65.0		70.0	90.0	
46.75	65.0		70.0	90.0	
51.5	59.0		63.5	90.0	
57.5	-		56.9	90.0	
58.75	-		55.7	90.0	
63.5	-		51.5	83.3	
69.5	-		-	76.1	
27.5	91		65.0	70.0	90.0
33.5			65.0	70.0	90.0
39.5		65.0	70.0	90.0	
45.5		65.0	70.0	90.0	
46.75		65.0	70.0	90.0	
51.5		-	63.5	90.0	
57.5		-	56.9	90.0	
58.75		-	55.7	90.0	
63.5		-	-	83.3	
69.5		-	-	76.1	

GLASS LOAD CAPACITY (PSF)					
NOMINAL DIMS.		TYPE 'A'	TYPE 'B'	TYPE 'C'	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
27.5	94.75	65.0	70.0	90.0	
33.5		65.0	70.0	90.0	
39.5		65.0	70.0	90.0	
45.5		65.0	70.0	90.0	
46.75		65.0	70.0	90.0	
51.5		-	63.5	90.0	
57.5		-	56.9	90.0	
58.75		-	-	90.0	
63.5		-	-	83.3	
69.5		-	-	76.1	
27.5		97	65.0	70.0	90.0
33.5			65.0	70.0	90.0
39.5	65.0		70.0	90.0	
45.5	65.0		70.0	90.0	
46.75	-		70.0	90.0	
51.5	-		63.5	90.0	
57.5	-		-	90.0	
58.75	-		-	90.0	
63.5	-		-	83.3	
69.5	-		-	76.1	
27.5	103		65.0	70.0	90.0
33.5			65.0	70.0	90.0
39.5		65.0	70.0	90.0	
45.5		-	70.0	90.0	
46.75		-	70.0	90.0	
51.5		-	63.5	90.0	
57.5		-	-	90.0	
58.75		-	-	90.0	
63.5		-	-	83.3	
69.5		-	-	76.1	
27.5		109	65.0	70.0	90.0
33.5			65.0	70.0	90.0
39.5	65.0		70.0	90.0	
45.5	-		70.0	90.0	
46.75	-		70.0	90.0	
51.5	-		-	90.0	
57.5	-		-	90.0	
58.75	-		-	90.0	
63.5	-		-	83.3	
69.5	-		-	76.1	
27.5	115		65.0	70.0	90.0
33.5			65.0	70.0	90.0
39.5		65.0	70.0	90.0	
45.5		-	70.0	90.0	
46.75		-	70.0	90.0	
51.5		-	-	90.0	
57.5		-	-	90.0	
58.75		-	-	90.0	
63.5		-	-	83.3	
69.5		-	-	76.1	
27.5		118.5	65.0	70.0	90.0
33.5			65.0	70.0	90.0
39.5	-		70.0	90.0	
45.5	-		70.0	90.0	
46.75	-		70.0	90.0	
51.5	-		-	90.0	
57.5	-		-	90.0	
58.75	-		-	90.0	
63.5	-		-	83.3	
69.5	-		-	76.1	

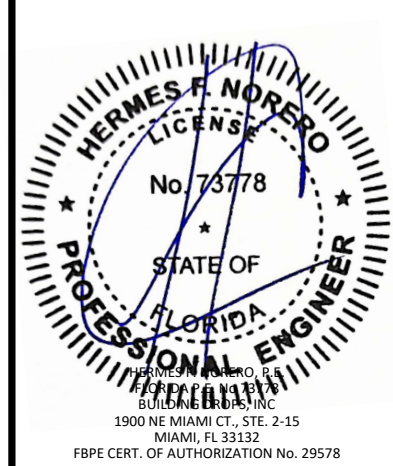
GLASS LOAD CAPACITY (PSF)					
NOMINAL DIMS.		TYPE 'A'	TYPE 'B'	TYPE 'C'	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
27.5	121	65.0	70.0	90.0	
33.5		65.0	70.0	90.0	
39.5		-	70.0	90.0	
45.5		-	70.0	90.0	
46.75		-	-	90.0	
51.5		-	-	90.0	
57.5		-	-	90.0	
27.5		127	65.0	70.0	90.0
33.5			65.0	70.0	90.0
39.5			-	70.0	90.0
45.5			-	-	90.0
46.75			-	-	90.0
51.5	-		-	90.0	
57.5	-		-	90.0	
27.5	133		65.0	70.0	90.0
33.5			65.0	70.0	90.0
39.5			-	70.0	90.0
45.5			-	-	90.0
46.75			-	-	90.0
51.5		-	-	90.0	
57.5		-	-	90.0	
27.5		139	65.0	70.0	90.0
33.5			-	70.0	90.0
39.5			-	70.0	90.0
45.5			-	-	90.0
46.75			-	-	90.0
51.5	-		-	90.0	
57.5	-		-	90.0	
27.5	145		65.0	70.0	90.0
33.5			-	70.0	90.0
39.5			-	-	90.0
45.5			-	-	90.0
46.75			-	-	90.0
51.5		-	-	90.0	
57.5		-	-	90.0	
27.5		151	65.0	70.0	90.0
33.5			-	70.0	90.0
39.5			-	-	90.0
45.5			-	-	90.0
46.75			-	-	90.0
51.5	-		-	90.0	
57.5	-		-	90.0	
27.5	157		65.0	70.0	90.0
33.5			-	70.0	90.0
39.5			-	-	90.0
45.5			-	-	90.0
46.75			-	-	90.0
51.5		-	-	90.0	
57.5		-	-	90.0	
27.5		163	65.0	70.0	90.0
33.5			-	70.0	90.0
39.5			-	-	90.0
45.5			-	-	90.0
46.75			-	-	90.0
51.5	-		-	90.0	
57.5	-		-	90.0	
27.5	169		65.0	70.0	90.0
33.5			-	-	90.0
39.5			-	-	90.0
45.5			-	-	90.0
46.75			-	-	90.0
51.5		-	-	90.0	
57.5		-	-	90.0	

NOTES:  
1. 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  
2. DO NOT EXCEED MULLION CAPACITY SELECTED OR ANCHOR CAPACITY IN DESIGN PRESSURE CHARTS

TITLE: SERIES 400T CURTAIN WALL - CAPTURED GLASS (WZ3) (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
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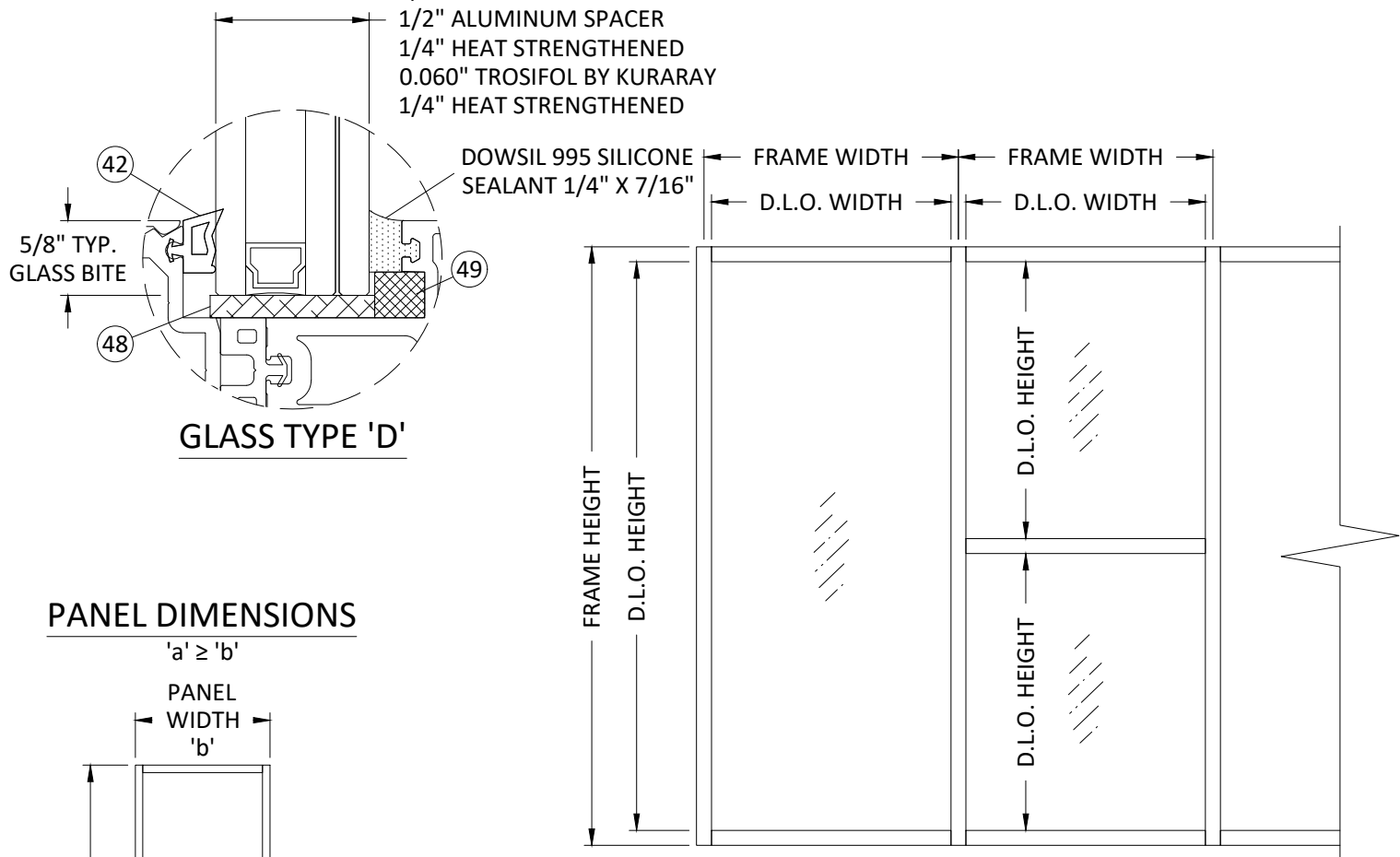
SCALE: **NTS**

DWG. #: **TLI016**

SECTION **6.1**

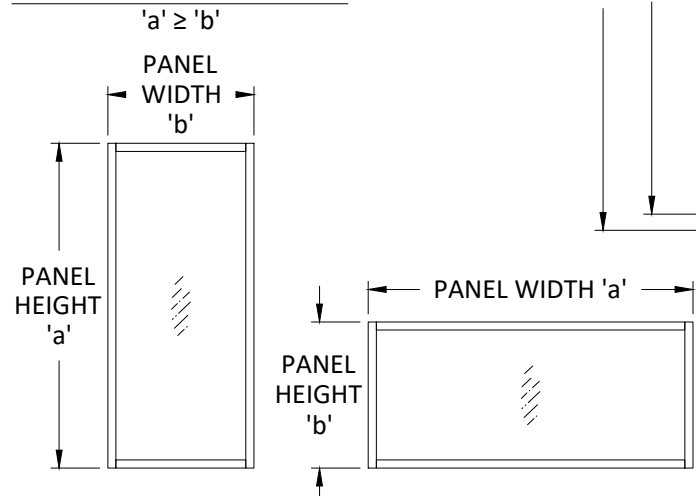
# GLAZING DETAILS AND CAPACITY (S.M.I.)

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 TYPE 'D'

## 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.
- D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN DESIGN PRESSURE TABLES.

### NOTES:

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

## GLASS LOAD CAPACITY (PSF)

NOMINAL DIMS.		TYPE 'D'	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)
27.5	79	78.0	71.0
33.5		78.0	71.0
39.5		78.0	71.0
45.5		78.0	71.0
51.5		78.0	71.0
57.5		78.0	71.0
58.75		78.0	71.0
63.5		72.2	65.7
69.5		65.9	60.0
27.5		85	78.0
33.5	78.0		71.0
39.5	78.0		71.0
45.5	78.0		71.0
51.5	78.0		71.0
57.5	78.0		71.0
58.75	78.0		71.0
63.5	72.2		65.7
69.5	65.9		60.0
27.5	91		78.0
33.5		78.0	71.0
39.5		78.0	71.0
45.5		78.0	71.0
51.5		78.0	71.0
57.5		78.0	71.0
58.75		78.0	71.0
63.5		72.2	65.7
69.5		65.9	60.0
27.5		97	78.0
33.5	78.0		71.0
39.5	78.0		71.0
45.5	78.0		71.0
51.5	78.0		71.0
57.5	78.0		71.0
58.75	78.0		71.0
63.5	72.2		65.7
69.5	65.9		60.0
27.5	103		78.0
33.5		78.0	71.0
39.5		78.0	71.0
45.5		78.0	71.0
51.5		78.0	71.0
57.5		78.0	71.0
58.75		78.0	71.0
63.5		72.2	65.7
69.5		65.9	60.0
27.5		109	78.0
33.5	78.0		71.0
39.5	78.0		71.0
45.5	78.0		71.0
51.5	78.0		71.0
57.5	78.0		71.0
58.75	78.0		71.0
63.5	72.2		65.7

## GLASS LOAD CAPACITY (PSF)

NOMINAL DIMS.		TYPE 'D'		
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	
27.5	115	78.0	71.0	
33.5		78.0	71.0	
39.5		78.0	71.0	
45.5		78.0	71.0	
51.5		78.0	71.0	
57.5		78.0	71.0	
58.75		78.0	71.0	
27.5		119	78.0	71.0
33.5			78.0	71.0
39.5			78.0	71.0
45.5	78.0		71.0	
51.5	78.0		71.0	
57.5	78.0		71.0	
58.75	78.0		71.0	
27.5	121		78.0	71.0
33.5			78.0	71.0
39.5			78.0	71.0
45.5		78.0	71.0	
51.5		78.0	71.0	
57.5		78.0	71.0	
58.75		78.0	71.0	
27.5		127	78.0	71.0
33.5			78.0	71.0
39.5			78.0	71.0
45.5	78.0		71.0	
51.5	78.0		71.0	
57.5	78.0		71.0	
58.75	78.0		71.0	
27.5	133		78.0	71.0
33.5			78.0	71.0
39.5			78.0	71.0
45.5		78.0	71.0	
51.5		78.0	71.0	
57.5		78.0	71.0	
58.75		78.0	71.0	
27.5		139	78.0	71.0
33.5			78.0	71.0
39.5			78.0	71.0
45.5	78.0		71.0	
51.5	78.0		71.0	
57.5	78.0		71.0	
58.75	78.0		71.0	
27.5	145		78.0	71.0
33.5			78.0	71.0
39.5			78.0	71.0
45.5		78.0	71.0	
51.5		78.0	71.0	
57.5		78.0	71.0	
58.75		78.0	71.0	
27.5		151	78.0	71.0
33.5			78.0	71.0
39.5			78.0	71.0
45.5	78.0		71.0	
51.5	78.0		71.0	
57.5	78.0		71.0	
58.75	78.0		71.0	
27.5	157		78.0	71.0
33.5			78.0	71.0
39.5			78.0	71.0
45.5		78.0	71.0	
51.5		78.0	71.0	
57.5		78.0	71.0	
58.75		78.0	71.0	
27.5		163	78.0	71.0
33.5			78.0	71.0
39.5			78.0	71.0
45.5	78.0		71.0	
51.5	78.0		71.0	
57.5	78.0		71.0	
58.75	78.0		71.0	
27.5	169		78.0	71.0
33.5			78.0	71.0
39.5			78.0	71.0
45.5		78.0	71.0	
51.5		78.0	71.0	
57.5		78.0	71.0	
58.75		78.0	71.0	

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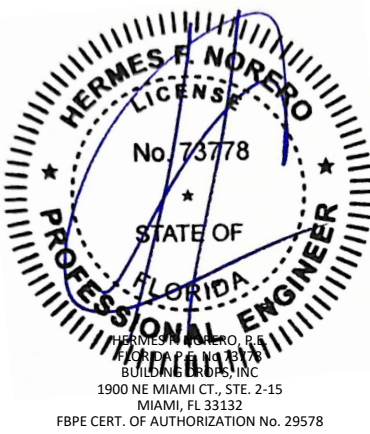
TITLE: SERIES 400T CURTAIN WALL -  
CAPTURED GLASS  
(WZ3) (IMPACT)  
GLAZING DETAILS

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



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MULLION UPDATE	DI	2/2024

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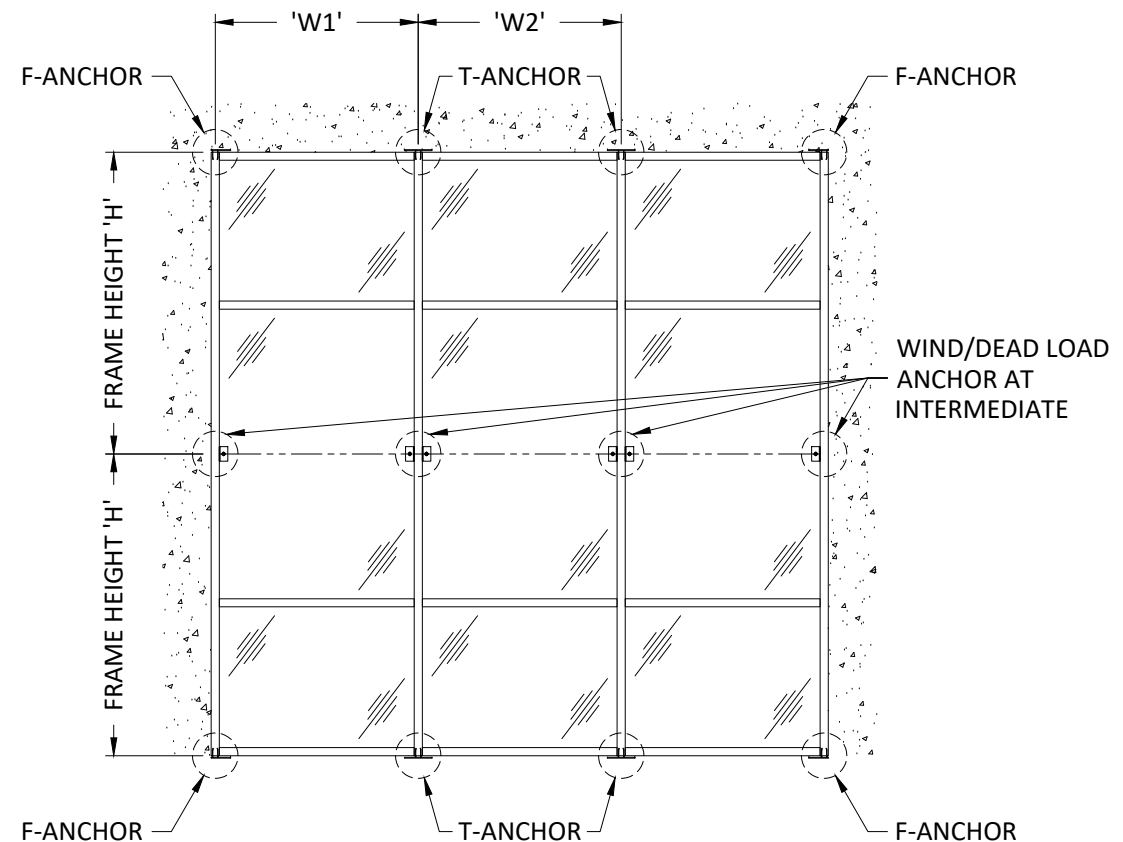
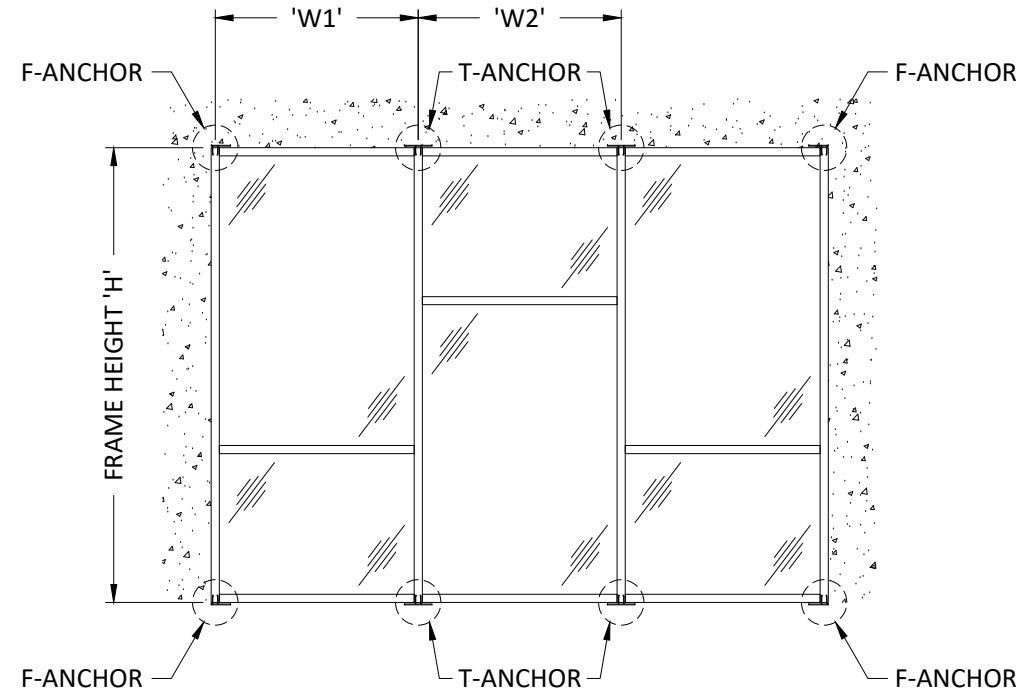
SCALE: **NTS**

DWG. #: **TLI016**

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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TITLE: SERIES 400T CURTAIN WALL - CAPTURED GLASS (WZ3) (IMPACT)

ANCHOR DETAILS

PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT., STE. 2-15  
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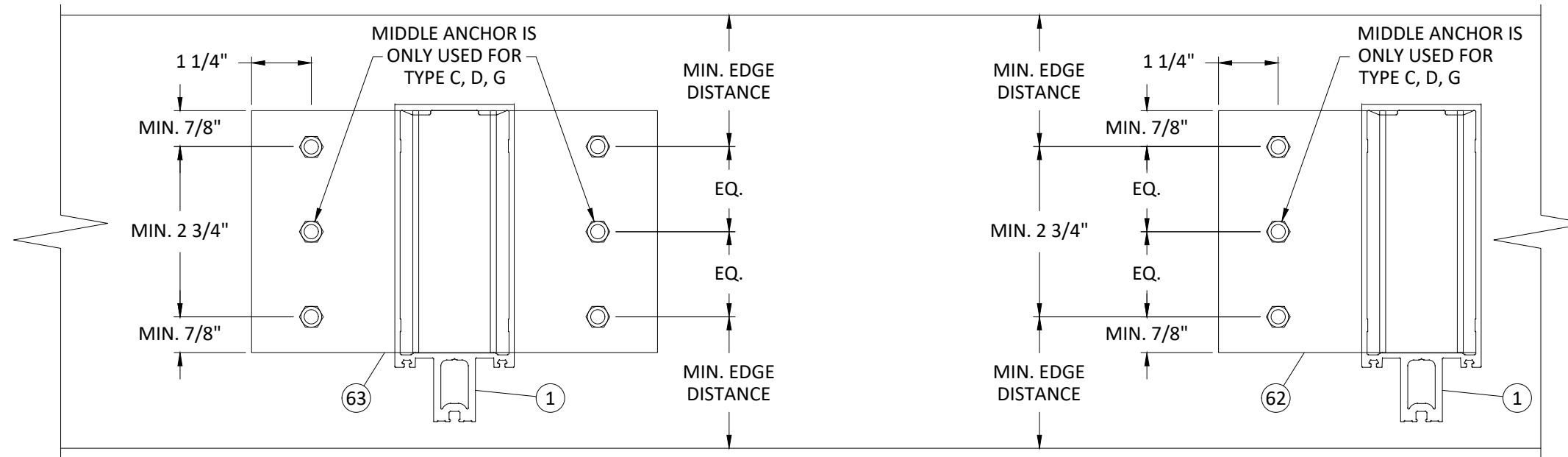
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SECTION

**7.0**



# ANCHOR DETAILS



**1**  
**7.1**

**ANCHOR**  
T-ANCHOR

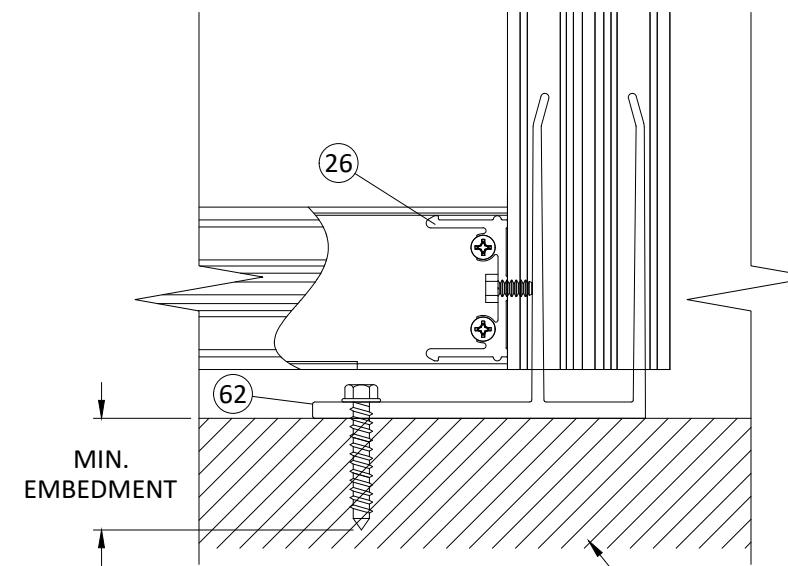
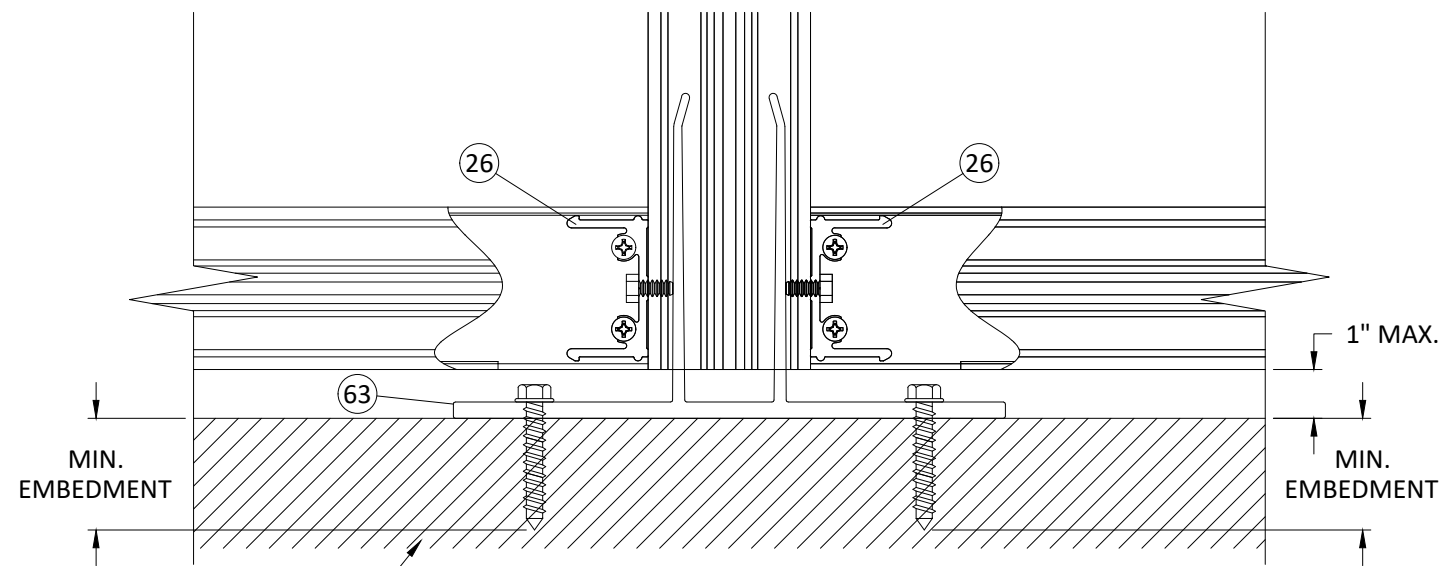
ANCHORAGE DETAILS APPLY FOR ALL EXTRUSIONS SHOWN ON SECTIONS 3 & 4

**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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TITLE: SERIES 400T CURTAIN WALL - CAPTURED GLASS (WZ3) (IMPACT)

ANCHOR DETAILS

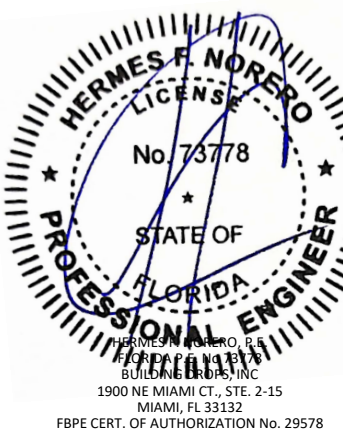
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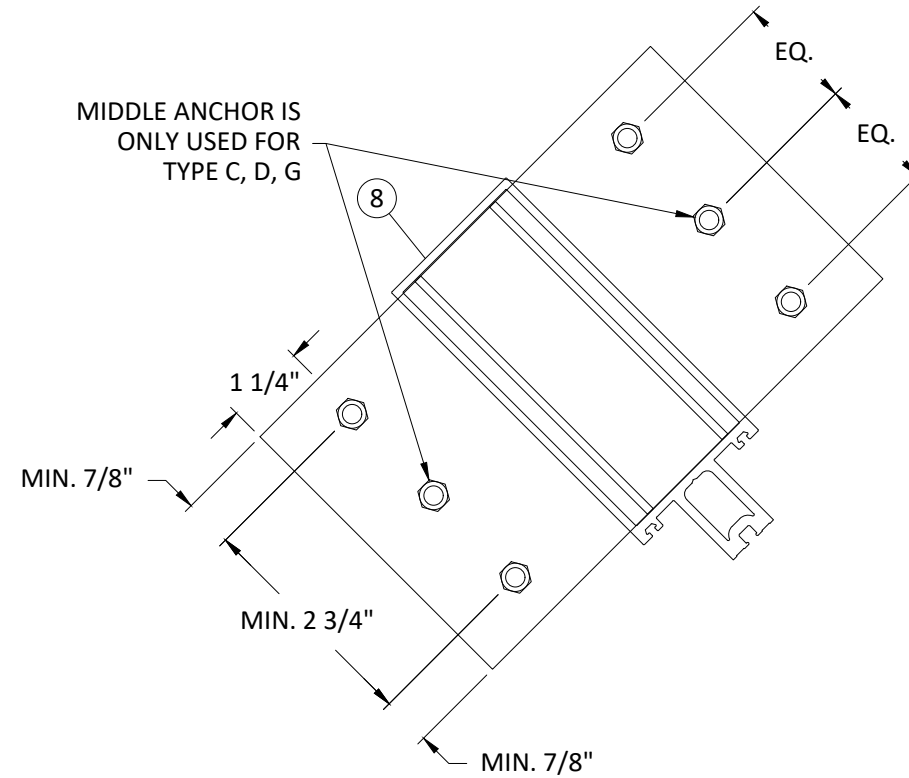
SCALE: **NTS**

DWG. #: **TLI016**

SECTION **7.1**

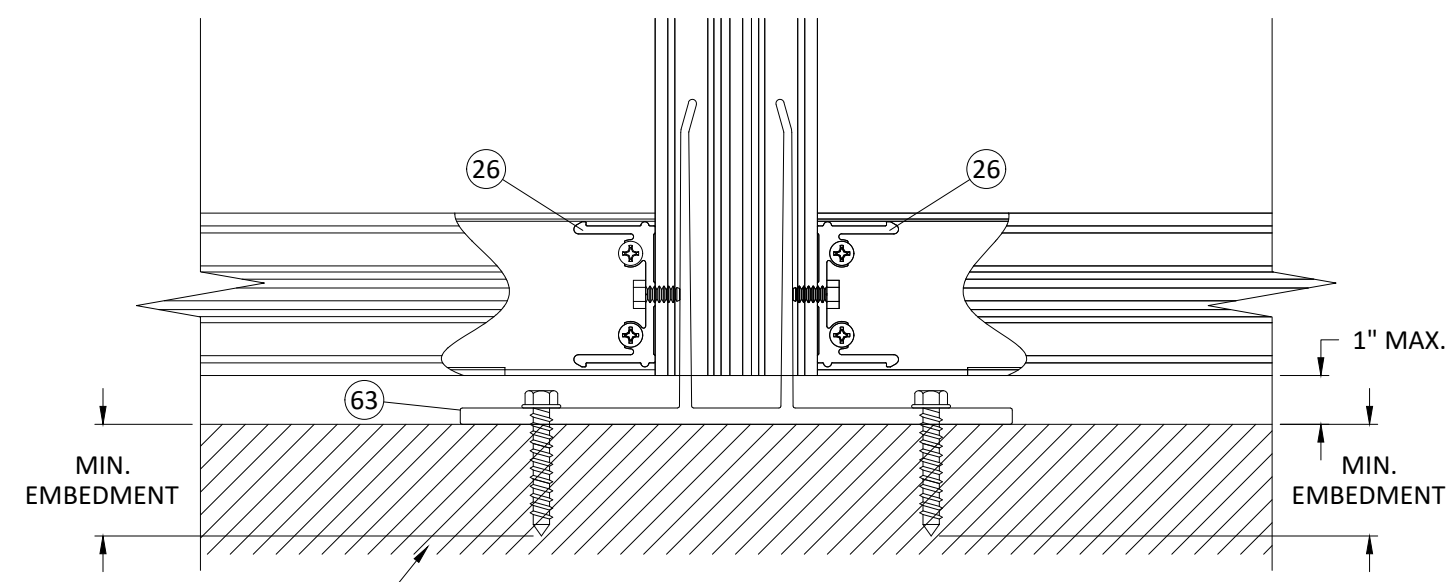
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# ANCHOR DETAILS



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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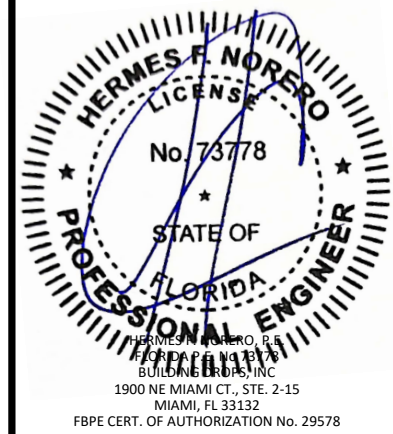
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SCALE: **NTS**

DWG. #: **TLI016**

SECTION  
**7.2**

# ANCHOR CAPACITY - F & T ANCHOR

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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
48		73.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0
54		65.4	90.0	90.0	90.0	90.0	90.0	90.0	90.0
60		58.9	90.0	82.7	90.0	90.0	90.0	90.0	90.0
66		53.5	90.0	75.2	90.0	90.0	90.0	90.0	90.0
72		49.0	90.0	68.9	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
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
48	69.0		90.0	90.0	90.0	90.0	90.0	90.0	90.0
54	61.3		90.0	86.1	90.0	90.0	90.0	90.0	90.0
60	55.2		90.0	77.5	90.0	90.0	90.0	90.0	90.0
66	50.2		90.0	70.5	90.0	90.0	90.0	90.0	90.0
72	46.0		90.0	64.6	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
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
48		64.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0
54		57.7	90.0	81.0	90.0	90.0	90.0	90.0	90.0
60		51.9	90.0	72.9	90.0	90.0	90.0	90.0	90.0
66		47.2	90.0	66.3	90.0	90.0	90.0	90.0	90.0
72		43.3	86.5	60.8	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
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
48	61.3		90.0	86.1	90.0	90.0	90.0	90.0	90.0
54	54.5		90.0	76.5	90.0	90.0	90.0	90.0	90.0
60	49.0		90.0	68.9	90.0	90.0	90.0	90.0	90.0
66	44.6		89.2	62.6	90.0	90.0	90.0	90.0	90.0
72	40.9		81.7	57.4	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
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
48		58.1	90.0	81.6	90.0	90.0	90.0	90.0	90.0
54		51.6	90.0	72.5	90.0	90.0	90.0	90.0	90.0
60		46.5	90.0	65.3	90.0	90.0	90.0	90.0	90.0
61.25		45.5	90.0	63.9	90.0	90.0	90.0	90.0	90.0
72		38.7	77.4	54.4	89.8	90.0	90.0	85.3	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	119	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		89.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		74.2	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42		63.6	90.0	89.3	90.0	90.0	90.0	90.0	90.0
48		55.6	90.0	78.2	90.0	90.0	90.0	90.0	90.0
54		49.5	90.0	69.5	90.0	90.0	90.0	90.0	90.0
60		44.5	89.0	62.5	90.0	90.0	90.0	90.0	90.0
66		43.6	87.2	61.2	90.0	90.0	90.0	90.0	90.0
72		37.1	74.2	52.1	86.1	90.0	90.0	81.7	90.0
24		126	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
48	52.5		90.0	73.8	90.0	90.0	90.0	90.0	90.0
54	46.7		90.0	65.6	90.0	90.0	90.0	90.0	90.0
60	42.0		84.1	59.0	90.0	90.0	90.0	90.0	90.0
66	41.2		82.4	57.8	90.0	90.0	90.0	90.0	90.0
72	35.0		70.1	49.2	81.3	90.0	90.0	77.2	90.0
24	132		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
48		50.2	90.0	70.5	90.0	90.0	90.0	90.0	90.0
54		44.6	89.2	62.6	90.0	90.0	90.0	90.0	90.0
60		40.1	80.3	56.4	90.0	90.0	90.0	88.4	90.0
66		39.3	78.6	55.2	90.0	90.0	90.0	86.6	90.0
72		33.4	66.9	47.0	77.6	86.0	86.0	73.7	90.0
24		138	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
48	48.0		90.0	67.4	90.0	90.0	90.0	90.0	90.0
54	42.6		85.3	59.9	90.0	90.0	90.0	90.0	90.0
60	38.4		76.8	53.9	89.1	90.0	90.0	84.5	90.0
66	37.6		75.2	52.8	87.2	90.0	90.0	82.8	90.0
72	32.0		64.0	44.9	74.2	82.2	82.2	70.4	90.0
24	144		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
48		46.0	90.0	64.6	90.0	90.0	90.0	90.0	90.0
54		40.9	81.7	57.4	90.0	90.0	90.0	90.0	90.0
60		36.8	73.6	51.7	85.4	90.0	90.0	81.0	90.0
61.25		36.0	72.1	50.6	83.6	90.0	90.0	79.4	90.0
72		30.7	61.3	43.1	71.1	78.8	78.8	67.5	90.0

TITLE: SERIES 400T CURTAIN WALL - CAPTURED GLASS (WZ3) (IMPACT)

ANCHOR DETAILS

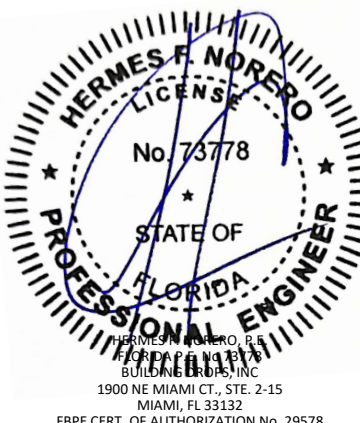
PREPARED BY: BUILDING DROPS, INC.

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

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 #:	<b>FL46180</b>
DATE:	<b>12.19.23</b>
DWG. BY:	<b>MS</b>
CHK. BY:	<b>HFN</b>
SCALE:	<b>NTS</b>
DWG. #:	<b>TLI016</b>

SECTION **7.3**

s:\projects\tubelite, inc\fbz-24-0164 - fbc submittal - f46180-400t-series impact curtainwall revisions\dwg\46180\TLO16.dwg 2/27/2024 2:49 PM

# ANCHOR CAPACITY - F & T ANCHOR

**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

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	148	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
48		44.7	89.3	62.7	90.0	90.0	90.0	90.0	90.0
55		38.9	77.8	54.6	90.0	90.0	90.0	85.7	90.0
60		35.7	71.5	50.2	82.9	90.0	90.0	78.7	90.0
61.25		35.0	70.0	49.2	81.2	90.0	90.0	77.1	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
48		42.4	84.9	59.6	90.0	90.0	90.0	90.0	90.0
54		37.7	75.5	53.0	87.5	90.0	90.0	83.1	90.0
60		34.0	67.9	47.7	78.8	87.3	87.3	74.8	90.0
61.25		33.3	66.5	46.7	77.2	85.5	85.5	73.3	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
48		40.9	81.7	57.4	90.0	90.0	90.0	90.0	90.0
54		36.3	72.7	51.0	84.3	90.0	90.0	80.0	90.0
60		32.7	65.4	45.9	75.9	84.1	84.1	72.0	90.0
61.25		32.0	64.1	45.0	74.3	82.4	82.4	70.5	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
48		39.4	78.8	55.4	90.0	90.0	90.0	86.8	90.0
54		35.0	70.1	49.2	81.3	90.0	90.0	77.2	90.0
60		31.5	63.1	44.3	73.2	81.1	81.1	69.4	90.0
61.25		30.9	61.8	43.4	71.7	79.4	79.4	68.0	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
48		38.1	76.1	53.4	88.3	90.0	90.0	83.8	90.0
54		33.8	67.6	47.5	78.5	87.0	87.0	74.5	90.0
60		30.4	60.9	42.8	70.6	78.3	78.3	67.0	90.0
61.25		29.8	59.6	41.9	69.2	76.7	76.7	65.7	90.0
24	180	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
48		36.8	73.6	51.7	85.4	90.0	90.0	81.0	90.0
54		32.7	65.4	45.9	75.9	84.1	84.1	72.0	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	186	71.2	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		57.0	90.0	80.0	90.0	90.0	90.0	90.0	90.0
36		47.5	90.0	66.7	90.0	90.0	90.0	90.0	90.0
42		40.7	81.4	57.1	90.0	90.0	90.0	89.6	90.0
48		35.6	71.2	50.0	82.6	90.0	90.0	78.4	90.0
54		31.6	63.3	44.4	73.4	81.4	81.4	69.7	90.0
24	192	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
48		34.5	69.0	48.4	80.0	88.7	88.7	76.0	90.0
54		30.7	61.3	43.1	71.1	78.8	78.8	67.5	90.0
24	198	66.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		53.5	90.0	75.2	90.0	90.0	90.0	90.0	90.0
36		44.6	89.2	62.6	90.0	90.0	90.0	90.0	90.0
42		38.2	76.4	53.7	88.7	90.0	90.0	84.2	90.0
48		33.4	66.9	47.0	77.6	86.0	86.0	73.7	90.0
24		204	64.9	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
48	32.5		64.9	45.6	75.3	83.5	83.5	71.5	90.0
24	210		63.1	90.0	88.6	90.0	90.0	90.0	90.0
30		50.4	90.0	70.9	90.0	90.0	90.0	90.0	90.0
36		42.0	84.1	59.0	90.0	90.0	90.0	90.0	90.0
42		36.0	72.1	50.6	83.6	90.0	90.0	79.4	90.0
48		31.5	63.1	44.3	73.2	81.1	81.1	69.4	90.0
24		216	61.3	90.0	86.1	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
48	30.7		61.3	43.1	71.1	78.8	78.8	67.5	90.0

**NOTE:**

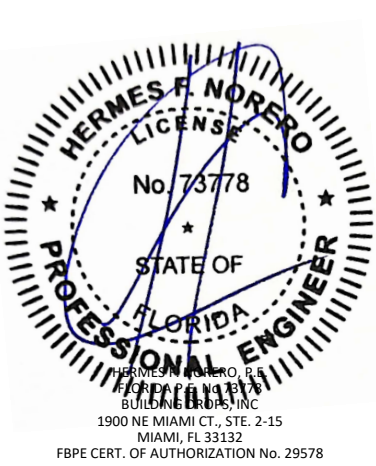
- REFER TO SECTIONS 7.0 THRU 7.2 FOR ANCHOR DETAILS AND REQUIREMENTS, AND DETERMINING MAX. SPAN HEIGHTS 'H' AND TRIBUTARY WIDTHS 'W'.

TITLE: SERIES 400T CURTAIN WALL - CAPTURED GLASS (WZ3) (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

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. #: **TLI016**

SECTION **7.4**

2/27/2024 2:49 PM  
s:\projects\tubelite, inc\fbz-24-0164 - fbc submittal - f46180-400t-series impact curtainwall-revisions\dwg\46180\TIO16.dwg



# 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
48		36.8	73.6	51.7	85.4	90.0	90.0	81.0	90.0
54		32.7	65.4	45.9	75.9	84.1	84.1	72.0	90.0
60		29.4	58.9	41.3	68.3	75.7	75.7	64.8	90.0
66		26.8	53.5	37.6	62.1	68.8	68.8	58.9	90.0
72		24.5	49.0	34.4	56.9	63.1	63.1	54.0	90.0
24		96	69.0	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
48	34.5		69.0	48.4	80.0	88.7	88.7	76.0	90.0
54	30.7		61.3	43.1	71.1	78.8	78.8	67.5	90.0
60	27.6		55.2	38.8	64.0	70.9	70.9	60.8	90.0
66	25.1		50.2	35.2	58.2	64.5	64.5	55.2	90.0
72	23.0		46.0	32.3	53.3	59.1	59.1	50.6	90.0
24	102		64.9	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
48		32.5	64.9	45.6	75.3	83.5	83.5	71.5	90.0
54		28.8	57.7	40.5	66.9	74.2	74.2	63.5	90.0
60		26.0	51.9	36.5	60.3	66.8	66.8	57.2	90.0
66		23.6	47.2	33.2	54.8	60.7	60.7	52.0	90.0
72		21.6	43.3	30.4	50.2	55.6	55.6	47.7	90.0
24		108	61.3	90.0	86.1	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
48	30.7		61.3	43.1	71.1	78.8	78.8	67.5	90.0
54	27.2		54.5	38.3	63.2	70.1	70.1	60.0	90.0
60	24.5		49.0	34.4	56.9	63.1	63.1	54.0	90.0
66	22.3		44.6	31.3	51.7	57.3	57.3	49.1	90.0
72	20.4		40.9	28.7	47.4	52.5	52.5	45.0	90.0
24	114		58.1	90.0	81.6	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
48		29.0	58.1	40.8	67.4	74.7	74.7	64.0	90.0
54		25.8	51.6	36.3	59.9	66.4	66.4	56.9	90.0
60		23.2	46.5	32.6	53.9	59.7	59.7	51.2	90.0
61.25		22.8	45.5	32.0	52.8	58.5	58.5	50.1	90.0
72		19.4	38.7	27.2	44.9	49.8	49.8	42.6	90.0

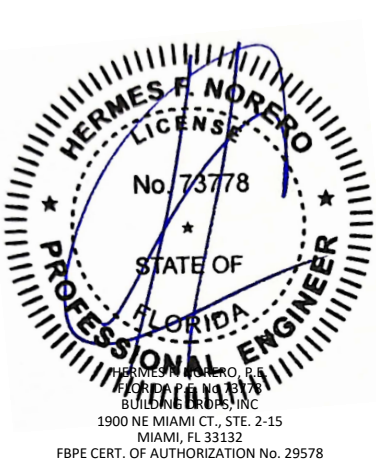
ANCHOR LOAD CAPACITY - PSF EXT. (+) & INT (-)									
NOMINAL DIMS.		ANCHOR TYPE							
TRIBUTARY WIDTH 'W' (in.)	FRAME HEIGHT 'H' (in.)	A	B	C	D	E	F	G	H
24	119	55.6	90.0	78.2	90.0	90.0	90.0	90.0	90.0
30		44.5	89.0	62.5	90.0	90.0	90.0	90.0	90.0
36		37.1	74.2	52.1	86.1	90.0	90.0	81.7	90.0
42		31.8	63.6	44.7	73.8	81.8	81.8	70.0	90.0
48		27.8	55.6	39.1	64.6	71.5	71.5	61.3	90.0
54		24.7	49.5	34.7	57.4	63.6	63.6	54.5	90.0
60		22.3	44.5	31.3	51.6	57.2	57.2	49.0	90.0
61.25		21.8	43.6	30.6	50.6	56.1	56.1	48.0	90.0
72		18.5	37.1	26.1	43.0	47.7	47.7	40.8	90.0
24		126	52.5	90.0	73.8	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
48	26.3		52.5	36.9	61.0	67.6	67.6	57.9	90.0
54	23.4		46.7	32.8	54.2	60.1	60.1	51.4	90.0
60	21.0		42.0	29.5	48.8	54.0	54.0	46.3	90.0
61.25	20.6		41.2	28.9	47.8	52.9	52.9	45.4	90.0
72	17.5		35.0	24.6	40.6	45.0	45.0	38.6	90.0
24	132		50.2	90.0	70.5	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
48		25.1	50.2	35.2	58.2	64.5	64.5	55.2	90.0
54		22.3	44.6	31.3	51.7	57.3	57.3	49.1	90.0
60		20.1	40.1	28.2	46.6	51.6	51.6	44.2	90.0
61.25		19.7	39.3	27.6	45.6	50.5	50.5	43.3	90.0
72		16.7	33.4	23.5	38.8	43.0	43.0	36.8	90.0
24		138	48.0	90.0	67.4	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
48	24.0		48.0	33.7	55.7	61.7	61.7	52.8	90.0
54	21.3		42.6	30.0	49.5	54.8	54.8	47.0	90.0
60	19.2		38.4	27.0	44.5	49.3	49.3	42.3	90.0
61.25	18.8		37.6	26.4	43.6	48.3	48.3	41.4	90.0
72	16.0		32.0	22.5	37.1	41.1	41.1	35.2	90.0
24	144		46.0	90.0	64.6	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
48		23.0	46.0	32.3	53.3	59.1	59.1	50.6	90.0
54		20.4	40.9	28.7	47.4	52.5	52.5	45.0	90.0
60		18.4	36.8	25.8	42.7	47.3	47.3	40.5	90.0
61.25		18.0	36.0	25.3	41.8	46.3	46.3	39.7	90.0
72		15.3	30.7	21.5	35.6	39.4	39.4	33.8	90.0

TITLE: SERIES 400T CURTAIN WALL - CAPTURED GLASS (WZ3) (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

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 #:	<b>FL46180</b>
DATE:	<b>12.19.23</b>
DWG. BY:	<b>MS</b>
CHK. BY:	<b>HFN</b>
SCALE:	<b>NTS</b>
DWG. #:	<b>TLI016</b>
SECTION	<b>7.5</b>

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# 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	148	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
48		22.3	44.7	31.4	51.8	57.4	57.4	49.2	90.0
55		19.4	38.9	27.3	45.1	50.0	50.0	42.8	90.0
60		17.9	35.7	25.1	41.5	45.9	45.9	39.3	90.0
61.25		17.5	35.0	24.6	40.6	45.0	45.0	38.5	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
48		21.2	42.4	29.8	49.2	54.6	54.6	46.7	90.0
54		18.9	37.7	26.5	43.8	48.5	48.5	41.5	90.0
60		17.0	34.0	23.8	39.4	43.7	43.7	37.4	90.0
61.25		16.6	33.3	23.4	38.6	42.8	42.8	36.6	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
48		20.4	40.9	28.7	47.4	52.5	52.5	45.0	90.0
54		18.2	36.3	25.5	42.2	46.7	46.7	40.0	90.0
60		16.3	32.7	23.0	37.9	42.0	42.0	36.0	90.0
61.25		16.0	32.0	22.5	37.2	41.2	41.2	35.3	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
48		19.7	39.4	27.7	45.7	50.7	50.7	43.4	90.0
54		17.5	35.0	24.6	40.6	45.0	45.0	38.6	90.0
60		15.8	31.5	22.1	36.6	40.5	40.5	34.7	90.0
61.25		15.4	30.9	21.7	35.8	39.7	39.7	34.0	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
48		19.0	38.1	26.7	44.1	48.9	48.9	41.9	90.0
54		16.9	33.8	23.8	39.2	43.5	43.5	37.2	90.0
60		15.2	30.4	21.4	35.3	39.1	39.1	33.5	90.0
61.25		14.9	29.8	20.9	34.6	38.3	38.3	32.8	90.0
24	180	36.8	73.6	51.7	85.4	90.0	90.0	81.0	90.0
30		29.4	58.9	41.3	68.3	75.7	75.7	64.8	90.0
36		24.5	49.0	34.4	56.9	63.1	63.1	54.0	90.0
42		21.0	42.0	29.5	48.8	54.0	54.0	46.3	90.0
48		18.4	36.8	25.8	42.7	47.3	47.3	40.5	90.0
54		16.3	32.7	23.0	37.9	42.0	42.0	36.0	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	186	35.6	71.2	50.0	82.6	90.0	90.0	78.4	90.0
30		28.5	57.0	40.0	66.1	73.2	73.2	62.7	90.0
36		23.7	47.5	33.3	55.1	61.0	61.0	52.3	90.0
42		20.3	40.7	28.6	47.2	52.3	52.3	44.8	90.0
48		17.8	35.6	25.0	41.3	45.8	45.8	39.2	90.0
54		15.8	31.6	22.2	36.7	40.7	40.7	34.8	90.0
24	192	34.5	69.0	48.4	80.0	88.7	88.7	76.0	90.0
30		27.6	55.2	38.8	64.0	70.9	70.9	60.8	90.0
36		23.0	46.0	32.3	53.3	59.1	59.1	50.6	90.0
42		19.7	39.4	27.7	45.7	50.7	50.7	43.4	90.0
48		17.2	34.5	24.2	40.0	44.3	44.3	38.0	90.0
54		15.3	30.7	21.5	35.6	39.4	39.4	33.8	90.0
24	198	33.4	66.9	47.0	77.6	86.0	86.0	73.7	90.0
30		26.8	53.5	37.6	62.1	68.8	68.8	58.9	90.0
36		22.3	44.6	31.3	51.7	57.3	57.3	49.1	90.0
42		19.1	38.2	26.8	44.3	49.1	49.1	42.1	90.0
48		16.7	33.4	23.5	38.8	43.0	43.0	36.8	90.0
24		204	32.5	64.9	45.6	75.3	83.5	83.5	71.5
30	26.0		51.9	36.5	60.3	66.8	66.8	57.2	90.0
36	21.6		43.3	30.4	50.2	55.6	55.6	47.7	90.0
42	18.5		37.1	26.1	43.0	47.7	47.7	40.8	90.0
48	16.2		32.5	22.8	37.7	41.7	41.7	35.7	90.0
24	210		31.5	63.1	44.3	73.2	81.1	81.1	69.4
30		25.2	50.4	35.4	58.5	64.9	64.9	55.6	90.0
36		21.0	42.0	29.5	48.8	54.0	54.0	46.3	90.0
42		18.0	36.0	25.3	41.8	46.3	46.3	39.7	90.0
48		15.8	31.5	22.1	36.6	40.5	40.5	34.7	90.0
24		216	30.7	61.3	43.1	71.1	78.8	78.8	67.5
30	24.5		49.0	34.4	56.9	63.1	63.1	54.0	90.0
36	20.4		40.9	28.7	47.4	52.5	52.5	45.0	90.0
42	17.5		35.0	24.6	40.6	45.0	45.0	38.6	90.0
48	15.3		30.7	21.5	35.6	39.4	39.4	33.8	90.0

**NOTE:**

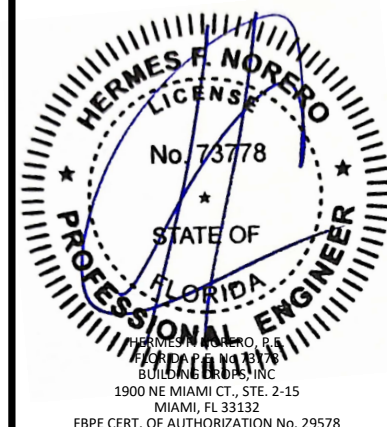
- REFER TO SECTIONS 7.0 THRU 7.2 FOR ANCHOR DETAILS AND REQUIREMENTS, AND DETERMINING MAX. SPAN HEIGHTS 'H' AND TRIBUTARY WIDTHS 'W'.
- REFER TO SECTION 2, TWIN SPAN ELEVATION FOR LOCATION OF F-ANCHOR WHEN USED AT VERTICAL MULLION BETWEEN DOOR AND D.L.O.

TITLE: SERIES 400T CURTAIN WALL - CAPTURED GLASS (WZ3) (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**

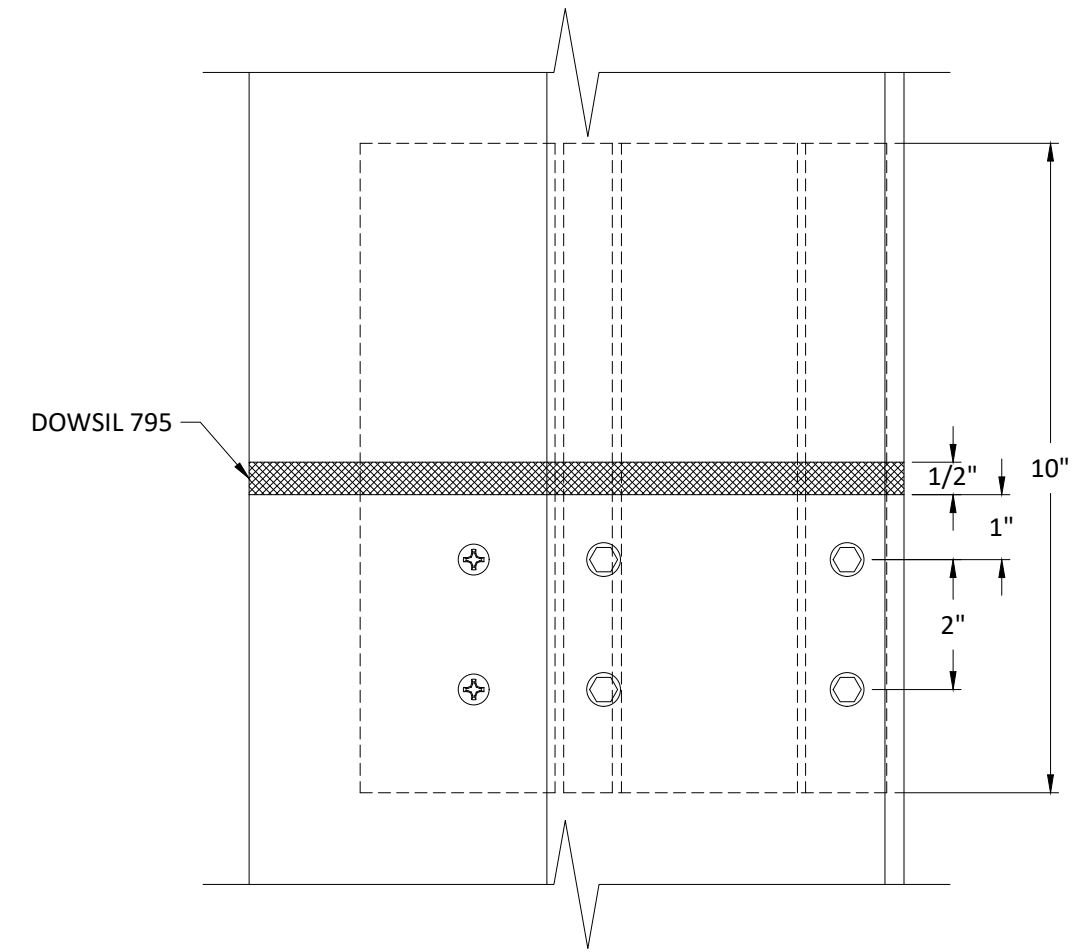
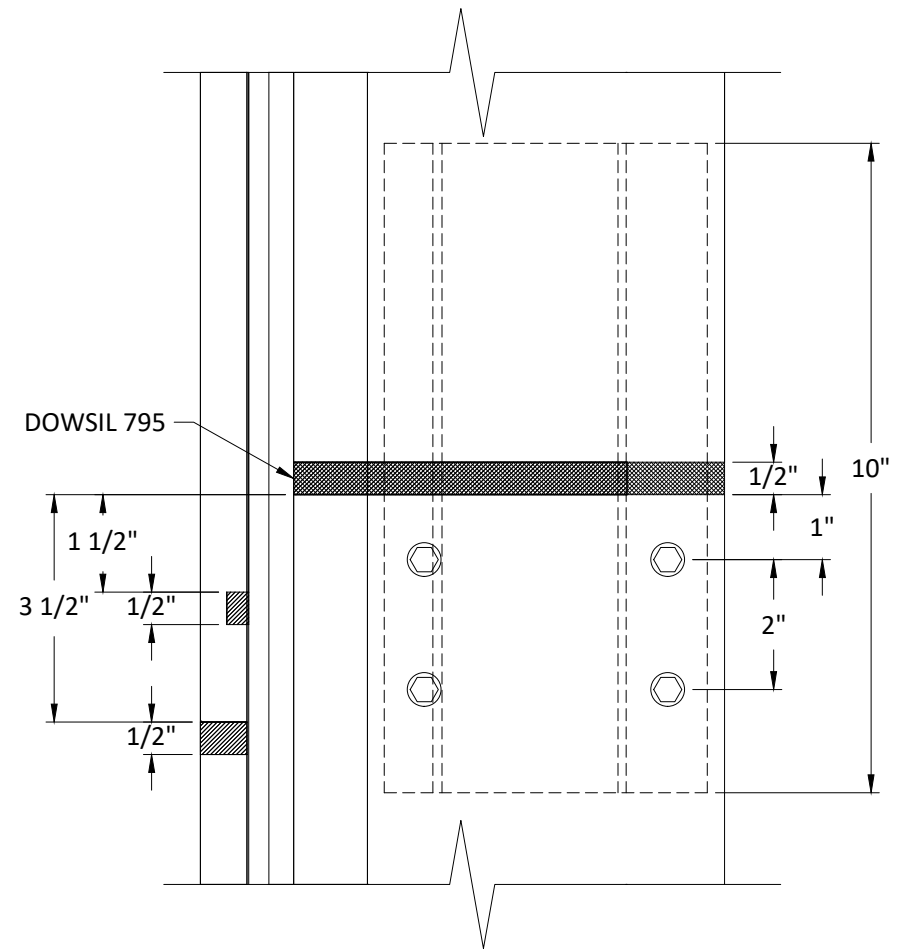
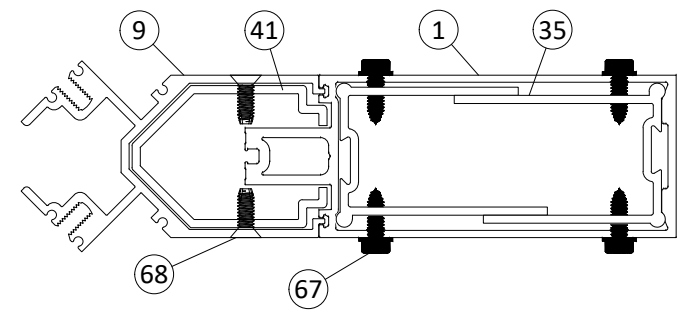
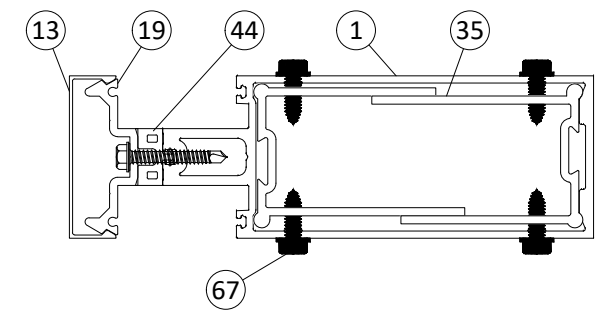
DWG. #: **TLI016**

SECTION: **7.6**

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# MULLION SPLICE



**1**  
**8.0** **MULLION SPLICE**  
INTERMEDIATE

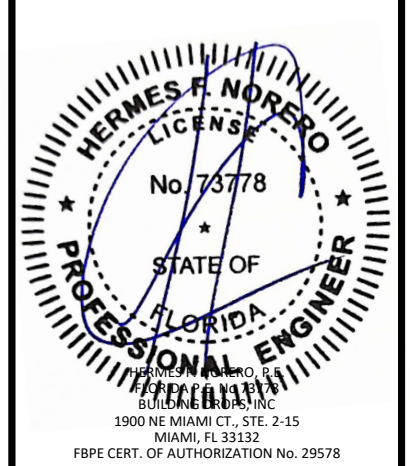
**2**  
**8.0** **MULLION SPLICE**  
CORNER

**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 - CAPTURED GLASS (WZ3) (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. #: **TLI016**

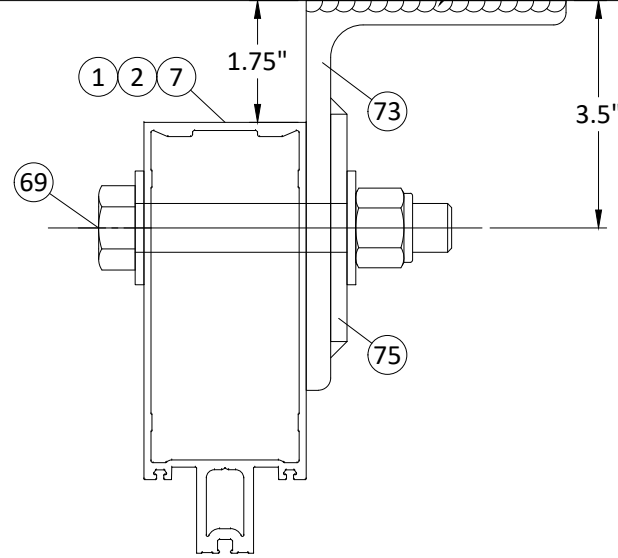
SECTION  
**8.0**

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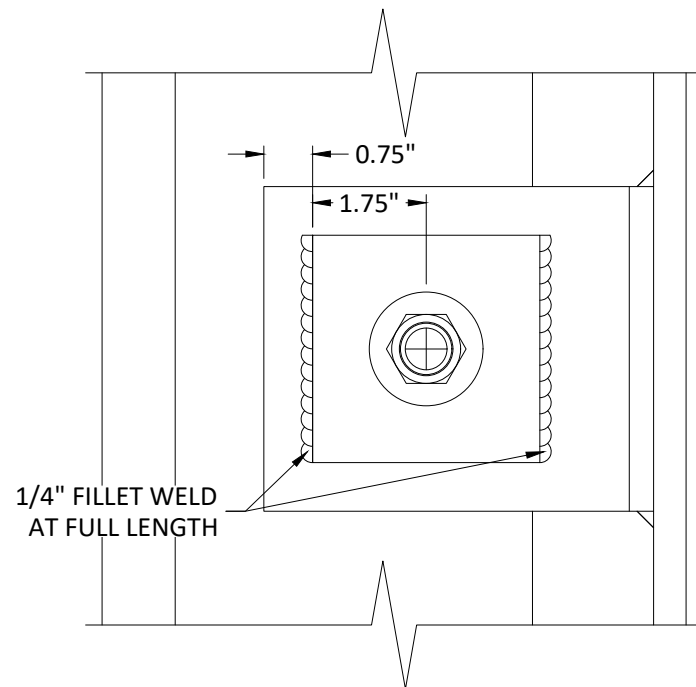
# WIND/DEAD LOAD ANCHOR

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:

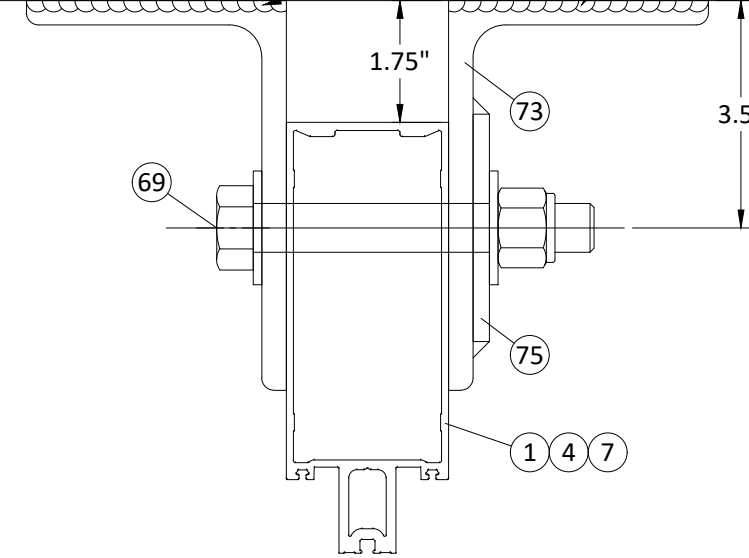
- WIND/DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
  - WL = +/- 5,773 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
  - WL = +/- 2,527 LBS (UNFACTORED) @ SINGLE ANGLE SUPPORTS
  - MAX. SPAN = 18'-0"
  - MAX. TRIB WIDTH = 72"
- DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
  - DL = +/- 1,388 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
  - DEAD LOAD SHALL BE DETERMINED BY ENGINEER OF RECORD.

### NOTES:

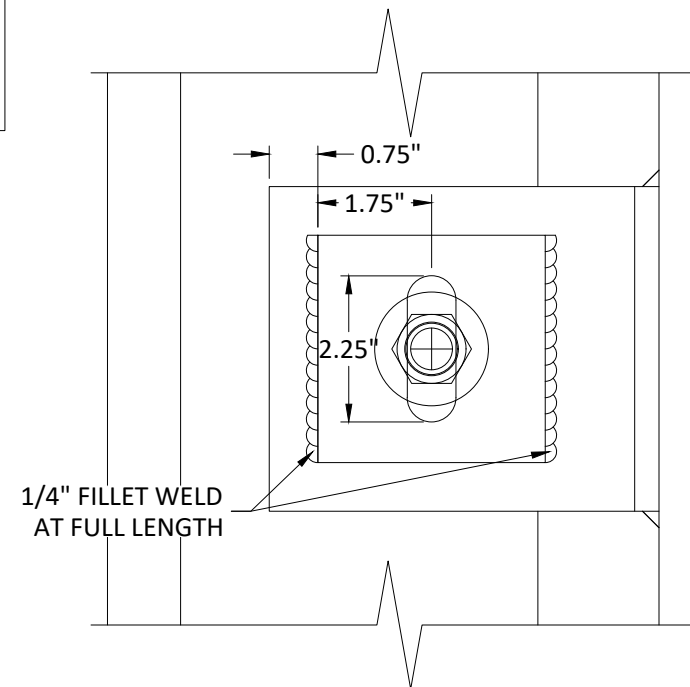
- ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

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 -  
CAPTURED GLASS  
(WZ3) (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**

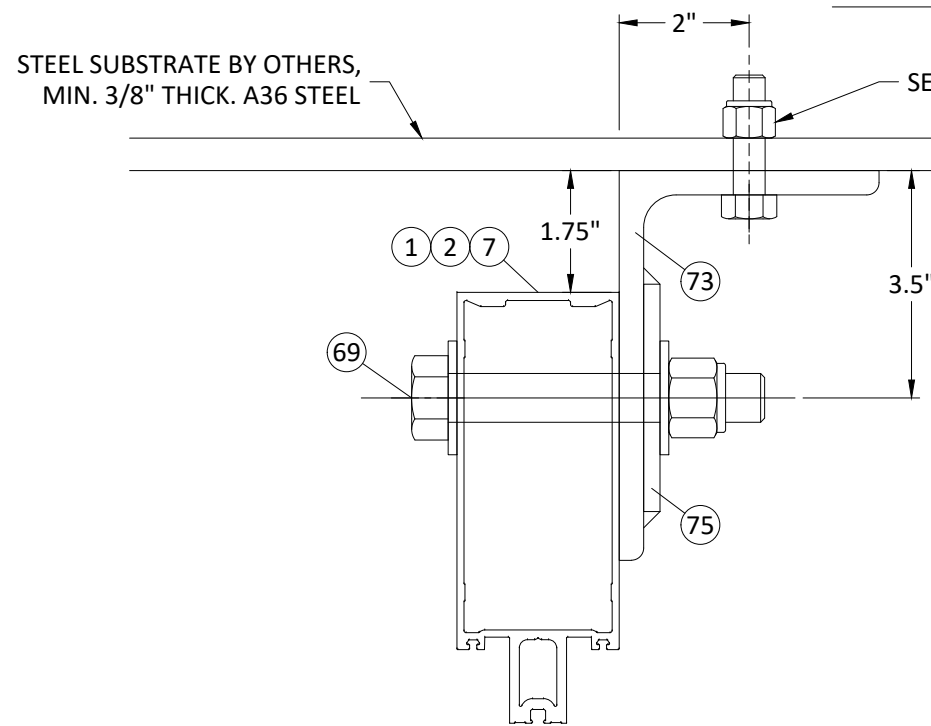
SCALE: **NTS**

DWG. #: **TLI016**

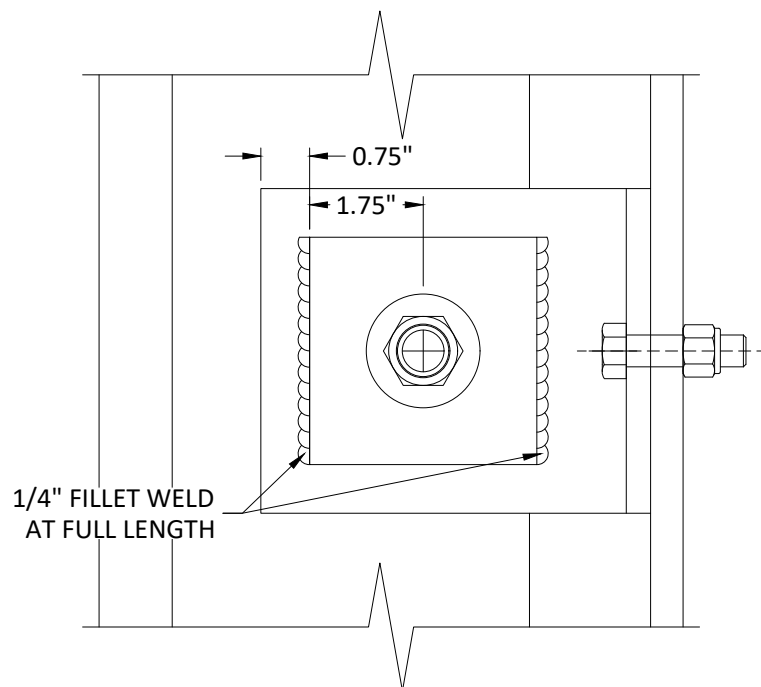
SECTION  
**8.1**



# WIND/DEAD LOAD ANCHOR



**1**  
**8.2** **VERTICAL SECTION**  
**WIND/DEAD LOAD ANCHOR**  
**AT JAMB**

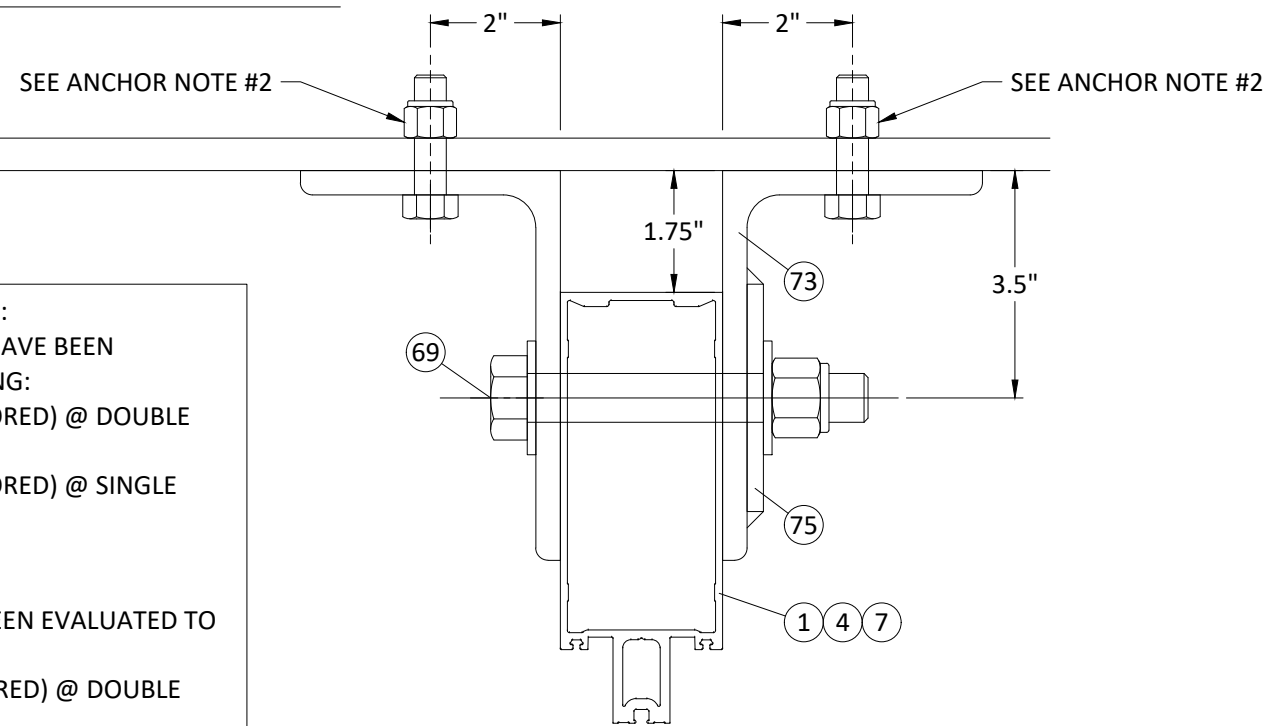


**DEAD LOAD ANCHOR**  
**AT STEEL SUBSTRATE**

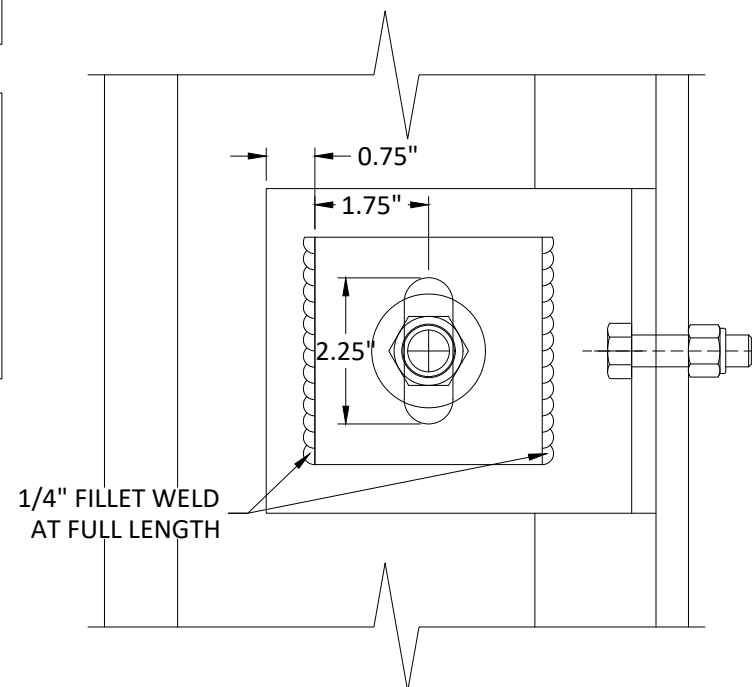
- WIND /DEAD LOAD ANCHOR NOTES:**
- WIND/DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
    - WL = +/- 5,773 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
    - WL = +/- 2,527 LBS (UNFACTORED) @ SINGLE ANGLE SUPPORTS
    - MAX. SPAN = 18'-0"
    - MAX. TRIB WIDTH = 72"
 DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
    - DL = +/- 1,388 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



**2**  
**8.2** **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 -  
CAPTURED GLASS  
(WZ3) (IMPACT)**

WIND/DEAD LOAD ANCHOR DETAILS

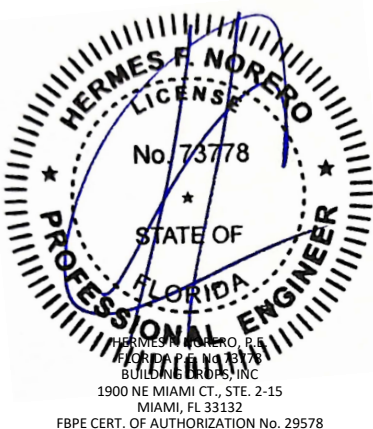
PREPARED BY: **BUILDING DROPS, INC.**

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. #: **TLI016**

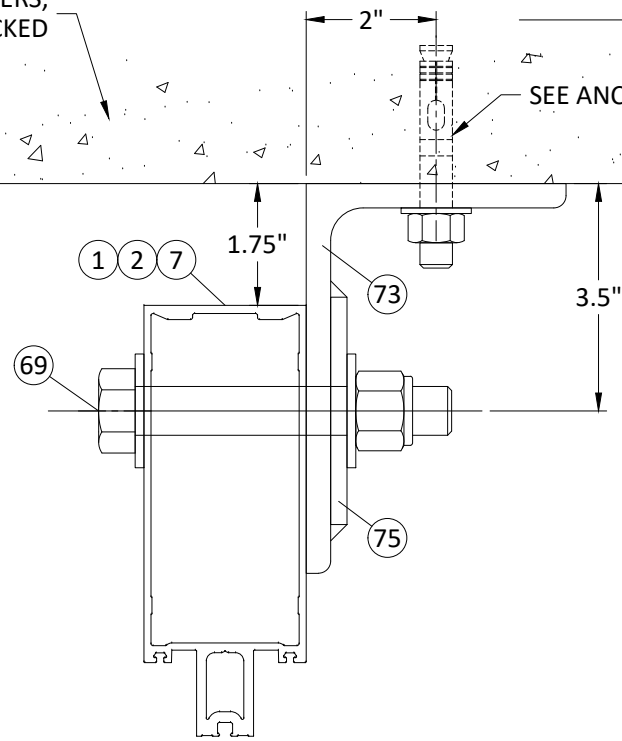
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**8.2**

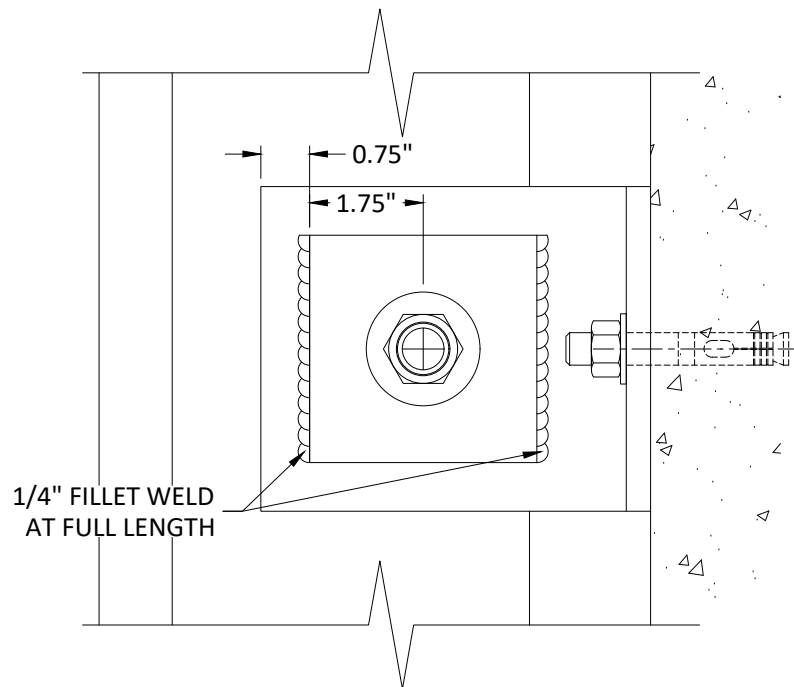
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# WIND/DEAD LOAD ANCHOR

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:

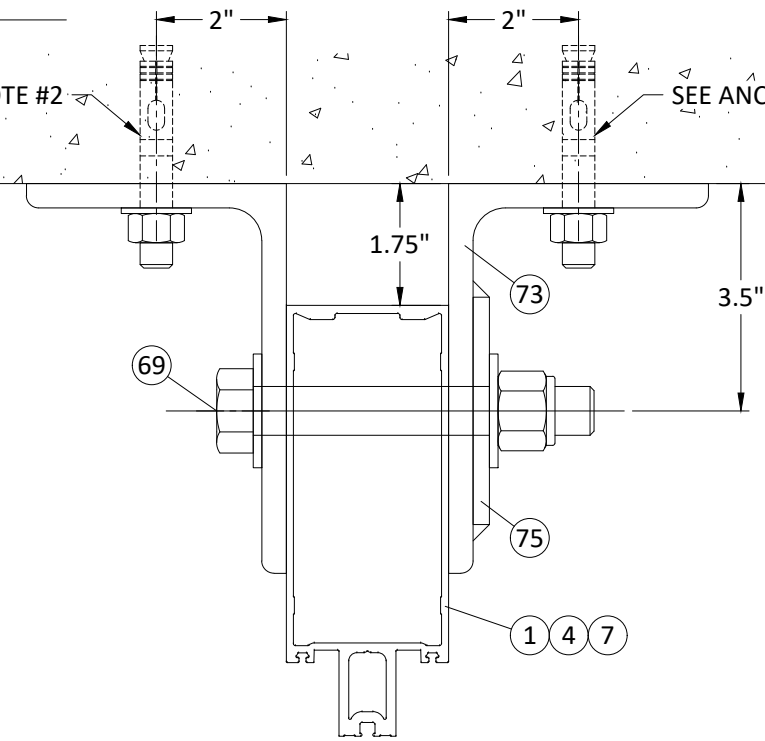
- WIND/DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
  - WL = +/- 5,773 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
  - WL = +/- 2,527 LBS (UNFACTORED) @ SINGLE ANGLE SUPPORTS
  - MAX. SPAN = 18'-0"
  - MAX. TRIB WIDTH = 72"
 DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
  - DL = +/- 1,388 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
  - DEAD LOAD SHALL BE DETERMINED BY ENGINEER OF RECORD.
- (1) 1/2" HILTI KWIK BOLT 3
  - MIN. EMBEDMENT: 3-1/2"
  - MIN. EDGE DISTANCE: 5-3/4"
  - MIN. C.C. SPACING: 6-1/2"
  - MIN 4000 PSI UNCRACKED CONCRETE OR, HIT-HY 200 V3 W/ (1) 1/2" HIT-Z
  - MIN. EMBEDMENT: 3-1/2"
  - MIN. EDGE DISTANCE: 4-7/8"
  - MIN. C.C. SPACING: 6-1/2"
  - MIN 4000 PSI UNCRACKED CONCRETE

### NOTES:

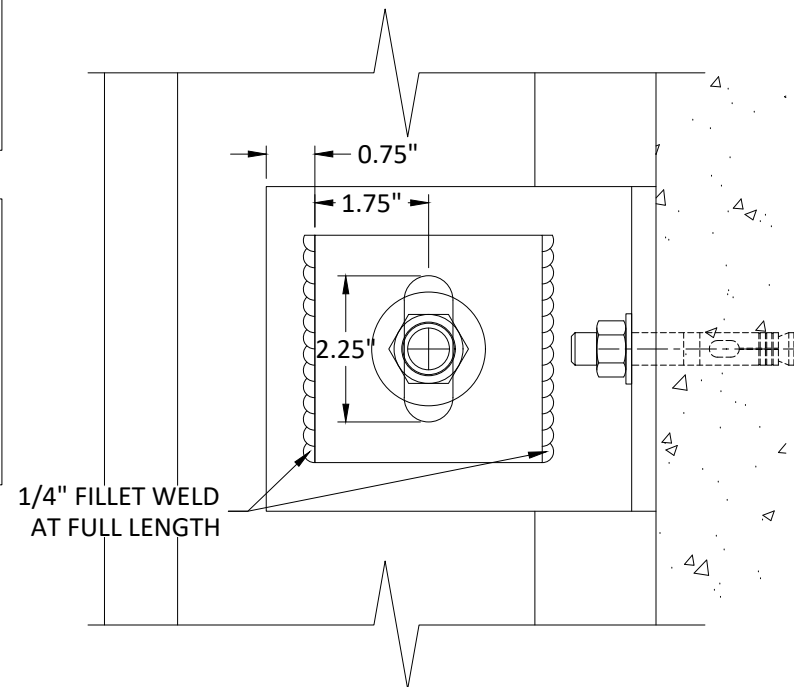
- ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

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

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 -  
CAPTURED GLASS  
(WZ3) (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. #: **TLI016**

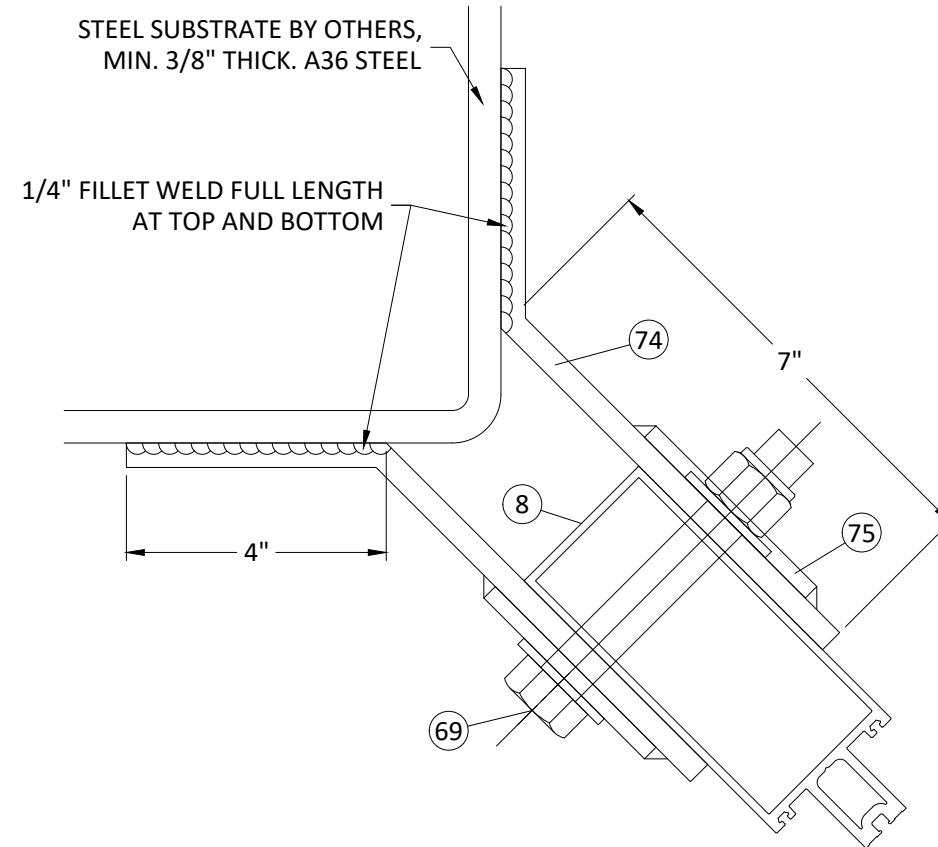
SECTION  
**8.3**

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# WIND/DEAD LOAD ANCHOR

## WIND /DEAD LOAD ANCHOR NOTES:

- WIND/DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
  - WL = +/- 5,396 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
  - MAX. SPAN = 18'-0"
  - MAX. TRIB WIDTH = 72"
- DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
  - DL = +/- 1,297 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
  - DEAD LOAD SHALL BE DETERMINED BY ENGINEER OF RECORD.

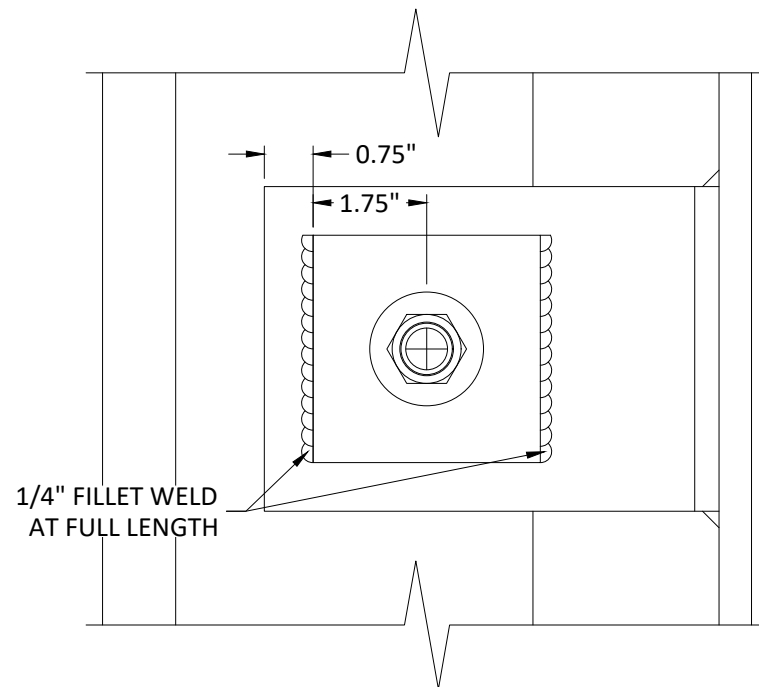


## NOTES:

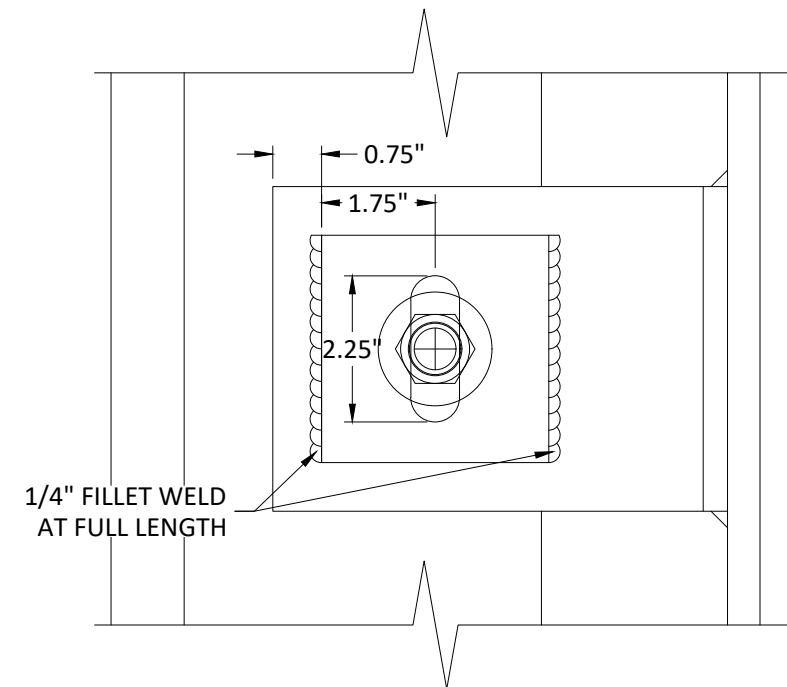
- ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

THE WL/DL ANCHOR HAS BEEN VERIFIED FOR THE DESIGN PRESSURE IN "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 -  
CAPTURED GLASS  
(WZ3) (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. #: **TLI016**

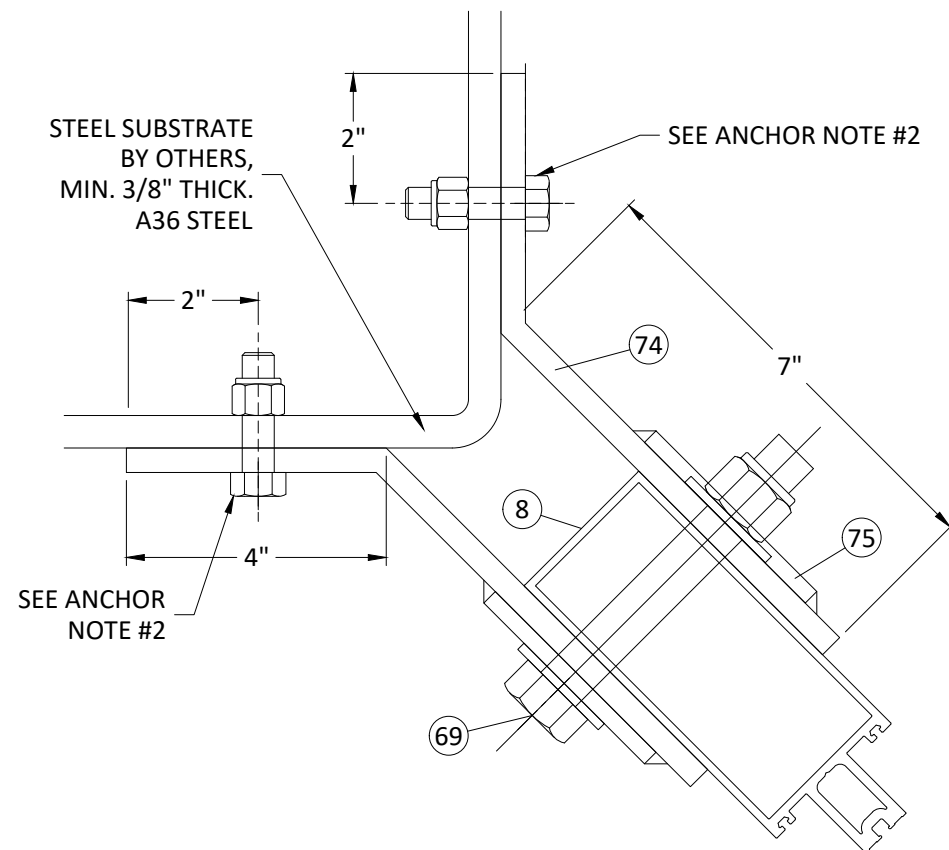
SECTION  
**8.4**

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# WIND/DEAD LOAD ANCHOR

## WIND /DEAD LOAD ANCHOR NOTES:

- WIND/DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
  - WL = +/- 5,396 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
  - MAX. SPAN = 18'-0"
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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.

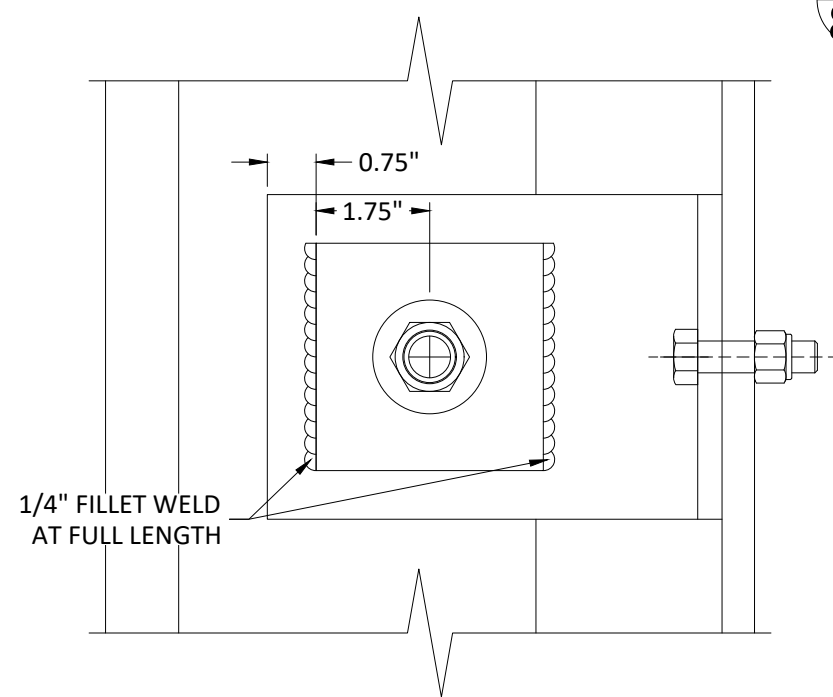


## NOTES:

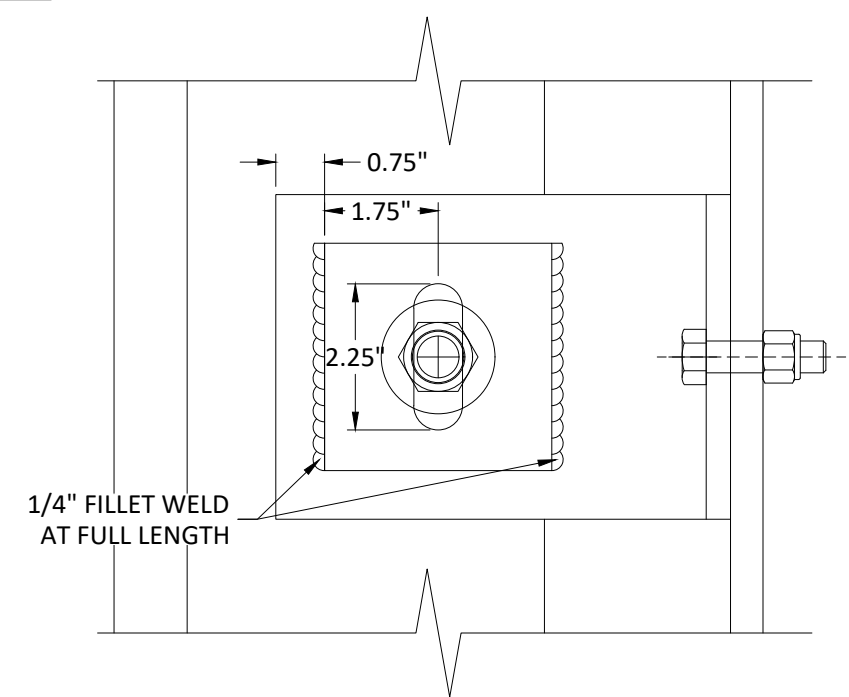
- ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

THE WL/DL ANCHOR HAS BEEN VERIFIED FOR THE DESIGN PRESSURE IN "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 - CAPTURED GLASS (WZ3) (IMPACT)

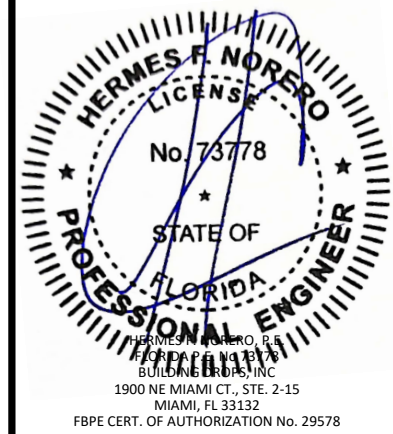
WIND/DEAD LOAD ANCHOR DETAILS

PREPARED BY: BUILDING DROPS, INC.  
1900 NE MIAMI CT., STE. 2-15  
MIAMI, FL 33132  
PH: (954)399-8478  
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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. #: **TLI016**

SECTION **8.5**

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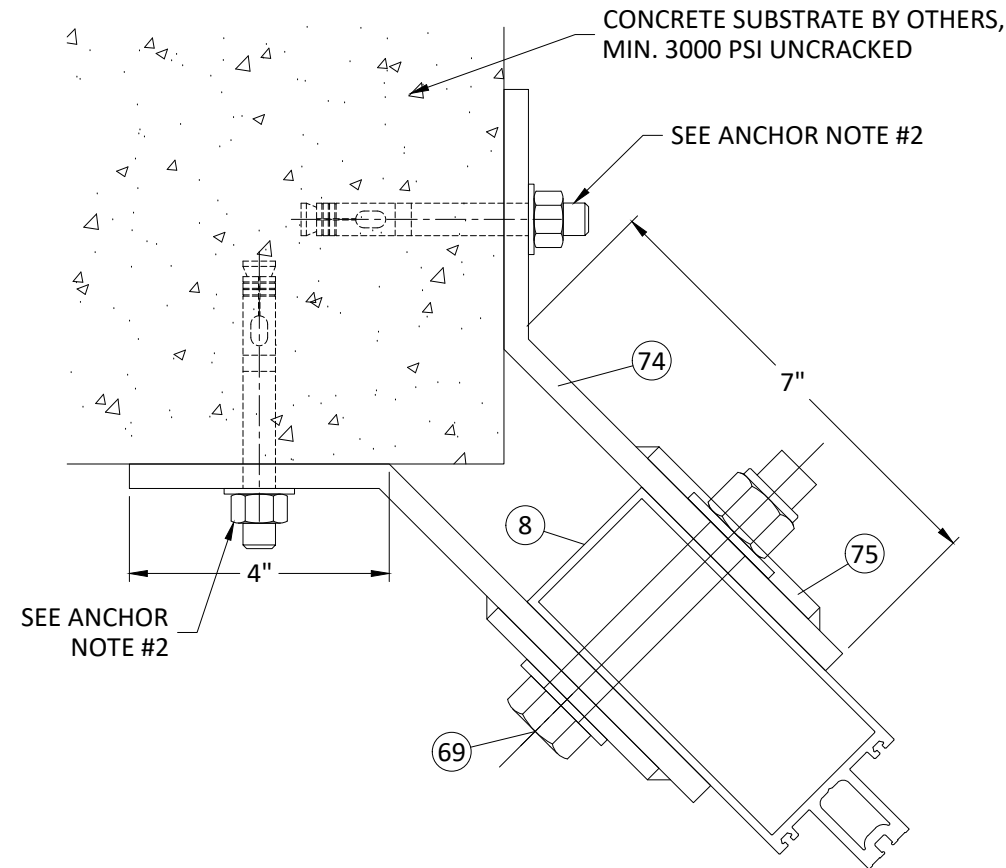


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# WIND/DEAD LOAD ANCHOR

## WIND /DEAD LOAD ANCHOR NOTES:

- WIND/DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
  - WL = +/- 5,396 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
  - MAX. SPAN = 18'-0"
  - MAX. TRIB WIDTH = 72"
 DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
  - DL = +/- 1,297 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
  - DEAD LOAD SHALL BE DETERMINED BY ENGINEER OF RECORD.
- (1) 1/2" HILTI KWIK BOLT 3
  - MIN. EMBEDMENT: 3-1/2"
  - MIN. EDGE DISTANCE: 5-3/8"
  - MIN. C.C. SPACING: 6-1/2"
  - MIN 4000 PSI UNCRACKED CONCRETE OR, HIT-HY 200 V3 W/ (1) 1/2" HIT-Z
  - MIN. EMBEDMENT: 3-5/16"
  - MIN. EDGE DISTANCE: 4-5/8"
  - MIN. C.C. SPACING: 6-1/2"
  - MIN 4000 PSI UNCRACKED CONCRETE

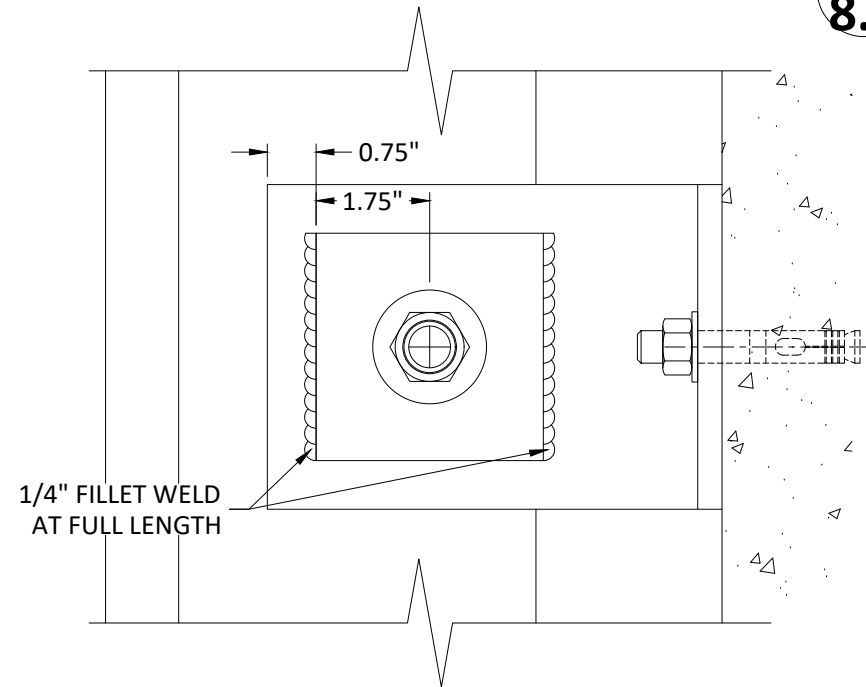


## NOTES:

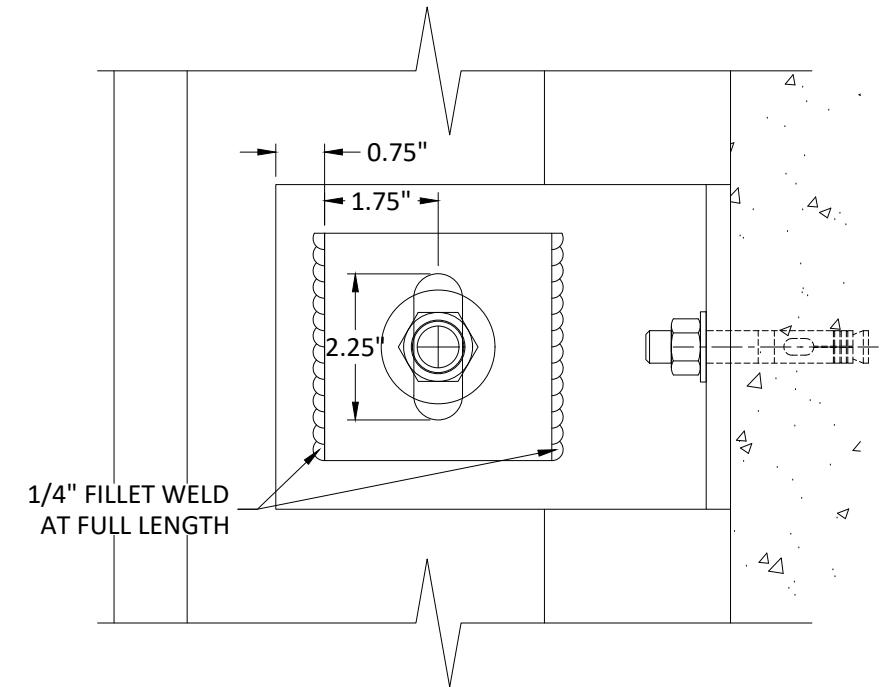
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## 1 8.6 VERTICAL SECTION WIND/DEAD LOAD ANCHOR AT CORNER



**DEAD LOAD ANCHOR**  
AT CONCRETE SUBSTRATE



**WIND LOAD ANCHOR**  
AT CONCRETE SUBSTRATE

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

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

TITLE: SERIES 400T CURTAIN WALL -  
CAPTURED GLASS  
(WZ3) (IMPACT)

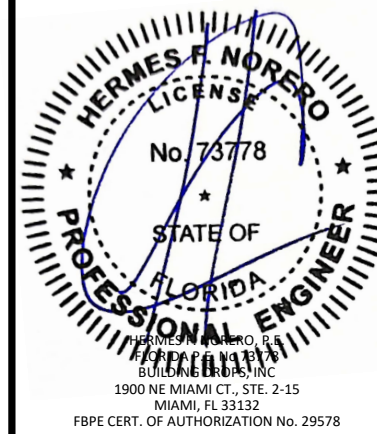
WIND/DEAD LOAD ANCHOR DETAILS

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
MULLION UPDATE	DI	2/2024

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FL #: **FL46180**

DATE: **12.19.23**

DWG. BY: <b>MS</b>	CHK. BY: <b>HFN</b>
--------------------	---------------------

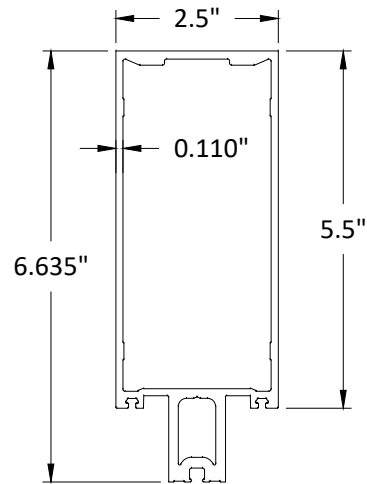
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DWG. #: **TLI016**

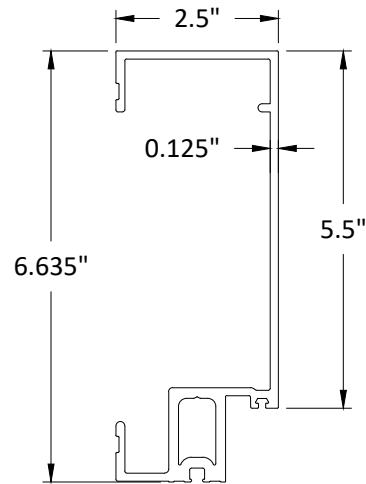
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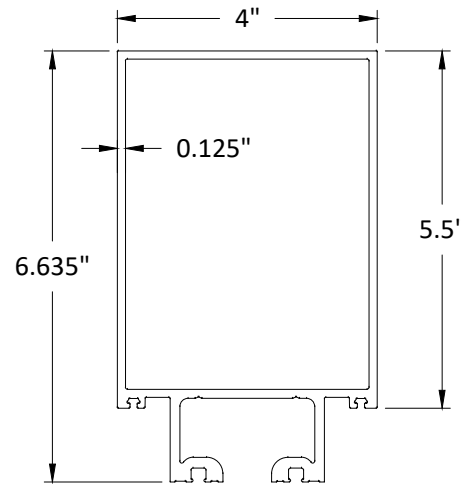
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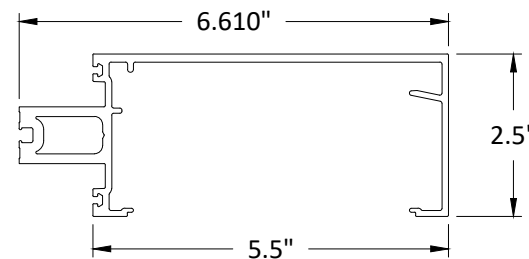
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ALUMINUM 6063-T6



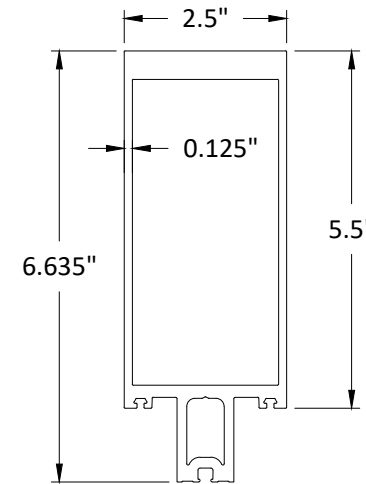
2 TUBE, OPEN-BACK  
ALUMINUM 6063-T6



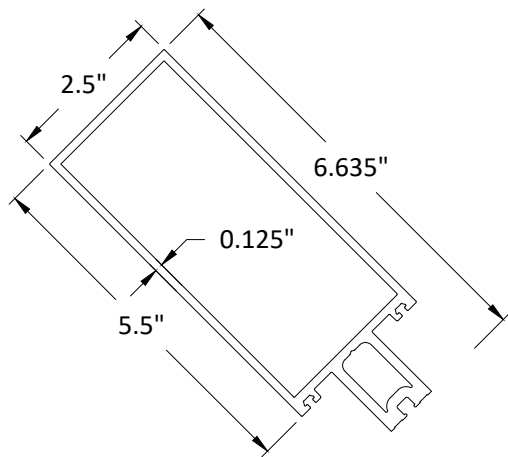
4 TUBE, 4" INTMD.  
ALUMINUM 6063-T6



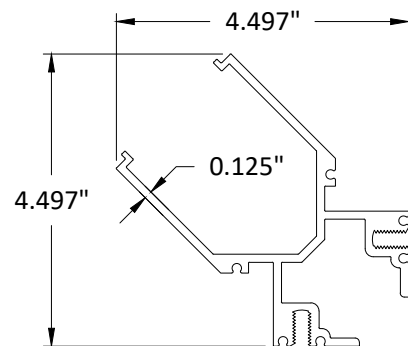
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ALUMINUM 6063-T6



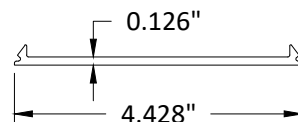
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ALUMINUM 6063-T6



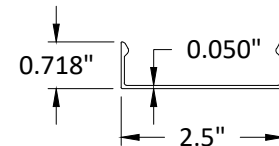
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ALUMINUM 6063-T6



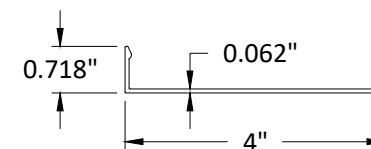
9 OUTSIDE CORNER ADAPTOR  
ALUMINUM 6063-T5



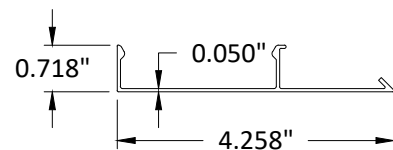
12 FLUSH FILLER  
ALUMINUM 6063-T5



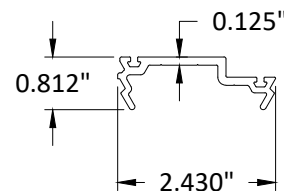
13 COVER, FACE, 2-1/2" X 3/4"  
ALUMINUM 6063-T5



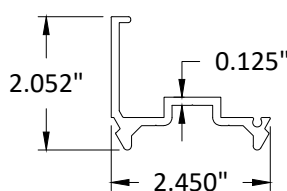
14 COVER, FACE, 4" X 3/4"  
ALUMINUM 6063-T5



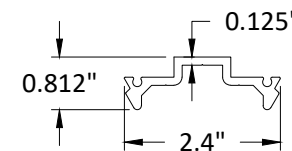
15 COVER, FACE, OUTSIDE CORNER  
ALUMINUM 6063-T5



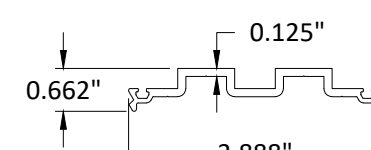
17 OFFSET PRESSURE PLATE, CORNER  
ALUMINUM 6063-T5



18 OFFSET FILLER-PRESSURE PLATE  
ALUMINUM 6063-T5



19 OFFSET PRESSURE PLATE  
ALUMINUM 6063-T5



20 PRESSURE PLATE, 4"  
ALUMINUM 6063-T5

**TUBELITE**  
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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 -  
CAPTURED GLASS  
(WZ3) (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

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FL #: **FL46180**

DATE: **12.19.23**

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

SCALE: **NTS**

DWG. #: **TLI016**

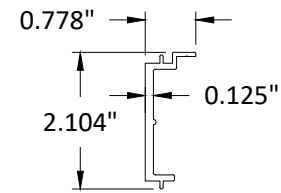
SECTION

**9.0**

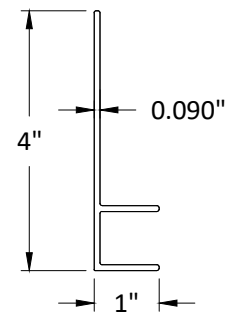
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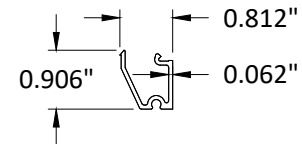
# COMPONENTS



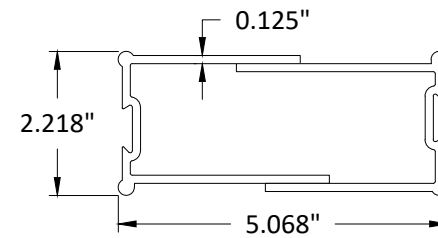
29 POCKET FILLER  
PVC



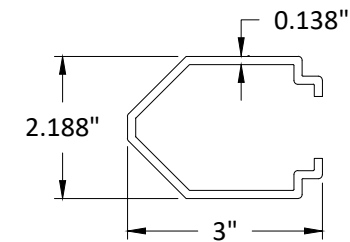
31 F-ANCHOR CLIP  
ALUMINUM 6063-T5



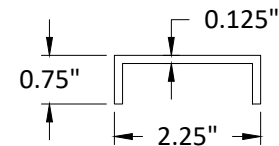
34 REDUCER  
ALUMINUM 6063-T5



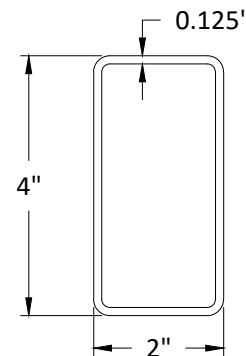
35 MULLION SPLICE, INTMD.  
ALUMINUM 6063-T5



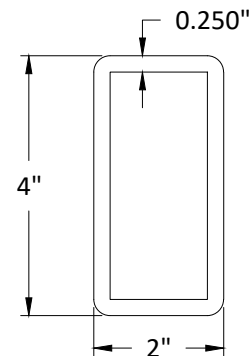
41 MULLION SPLICE, ITEM #9  
ALUMINUM 6063-T5



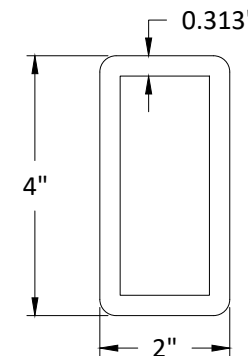
54 ALUMINUM 6063-T5



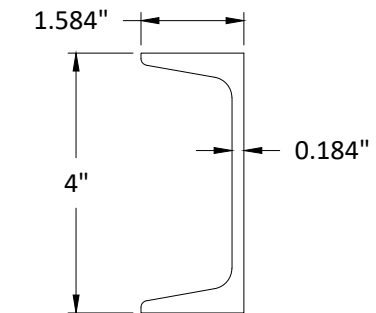
55 REIN. 2"X4"X11 GA. (120" LONG)  
A36 STEEL



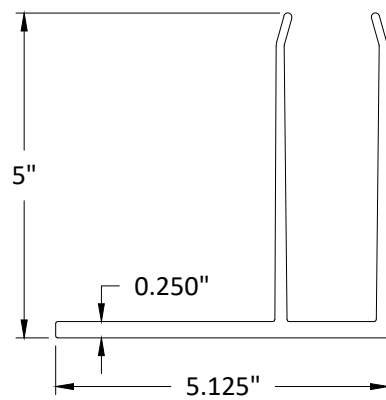
56 REIN. 2"X4"X1/4" (120" LONG)  
A36 STEEL



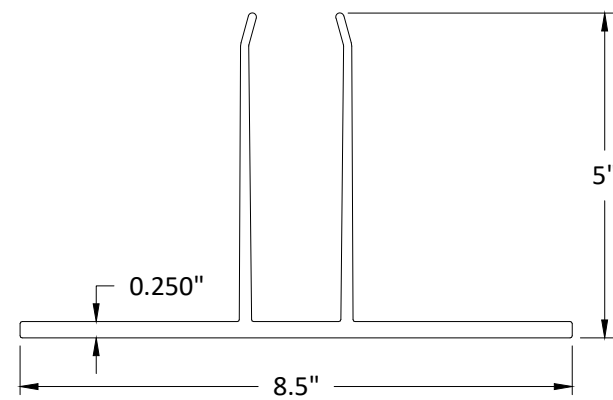
57 REIN. 2"X4"X5/16" (120" LONG)  
A36 STEEL



- 58 REIN. C4X5.4 (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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(WZ3) (IMPACT)

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DWG. BY: **MS**      CHK. BY: **HFN**

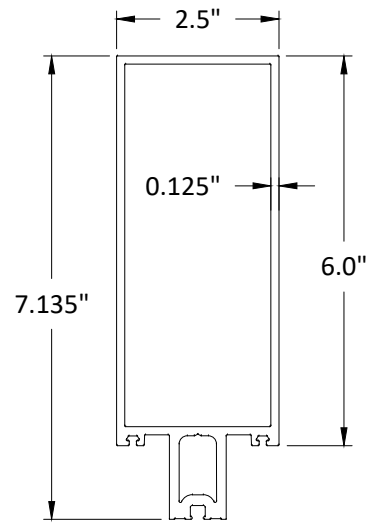
SCALE: **NTS**

DWG. #: **TLI016**

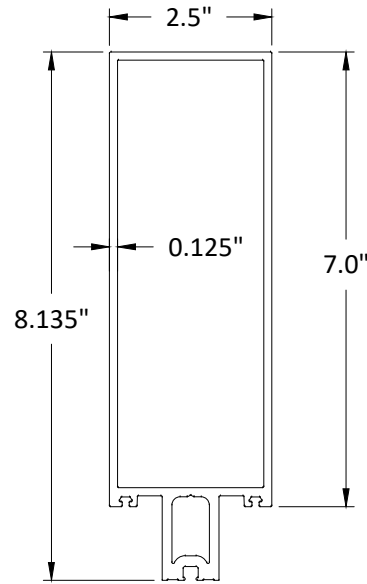
SECTION

**9.1**

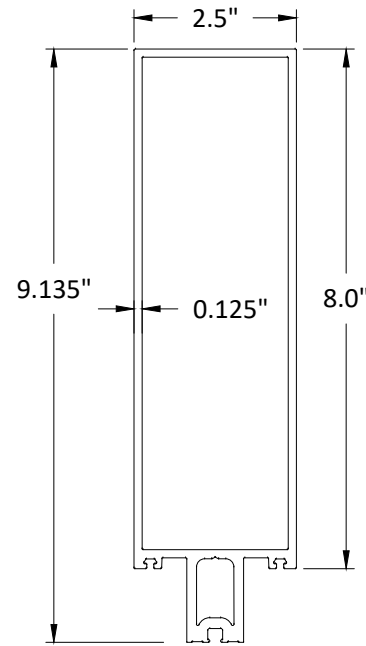
# COMPONENTS



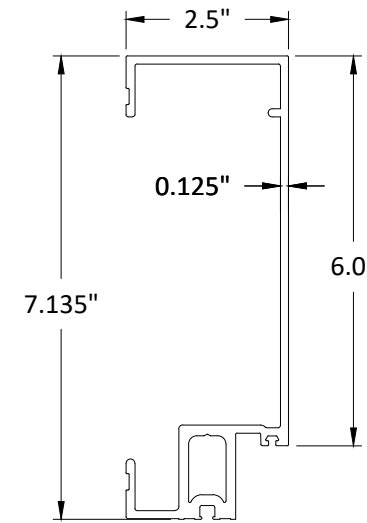
76 EXTRUSION, TUBE  
ALUMINUM 6063-T6



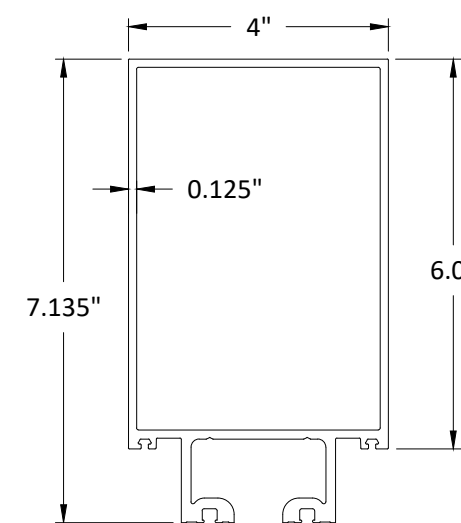
77 EXTRUSION, TUBE  
ALUMINUM 6063-T6



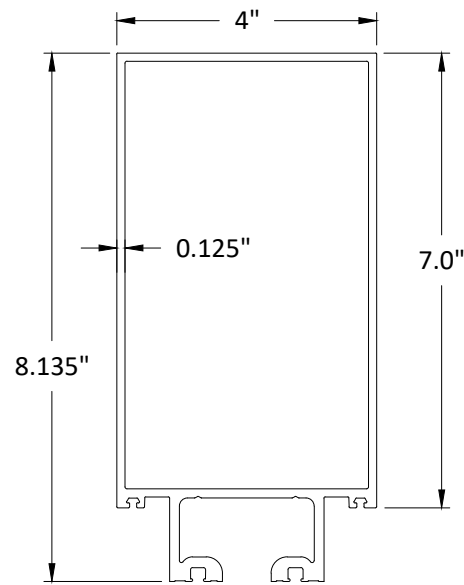
78 EXTRUSION, TUBE  
ALUMINUM 6063-T6



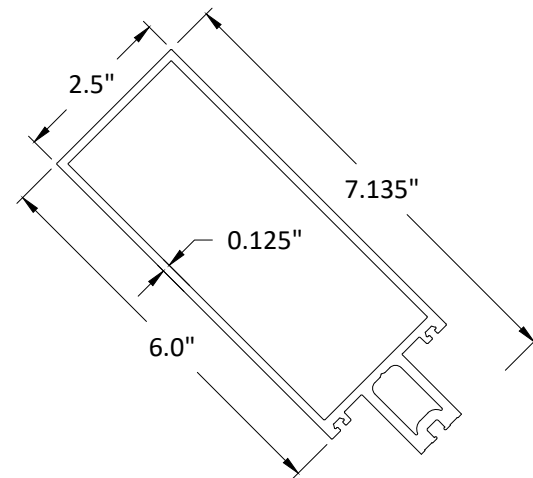
79 TUBE, OPEN BACK  
ALUMINUM 6063-T6



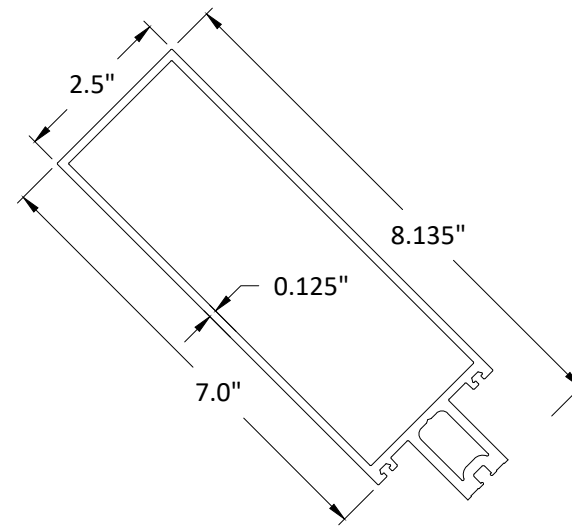
80 TUBE, 4" INTMD.  
ALUMINUM 6063-T6



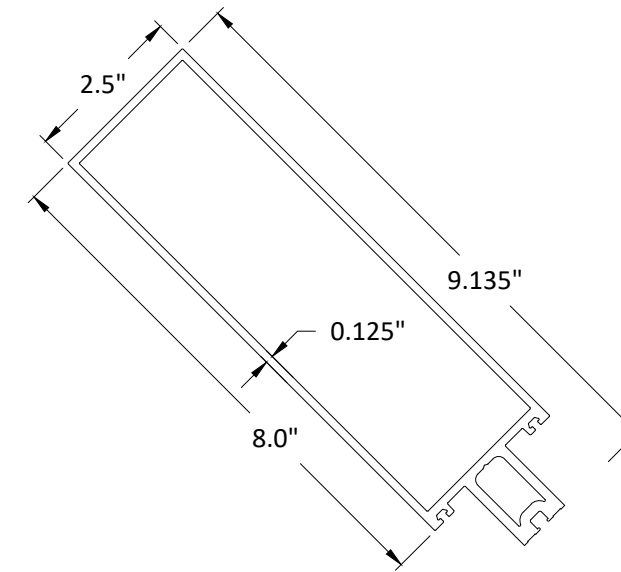
81 TUBE, 4" INTMD.  
ALUMINUM 6063-T6



82 TUBE, CORNER  
ALUMINUM 6063-T6



83 TUBE, CORNER  
ALUMINUM 6063-T6



84 TUBE, CORNER  
ALUMINUM 6063-T6

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TITLE: SERIES 400T CURTAIN WALL -  
CAPTURED GLASS  
(WZ3) (IMPACT)

COMPONENTS & BILL OF MATERIALS

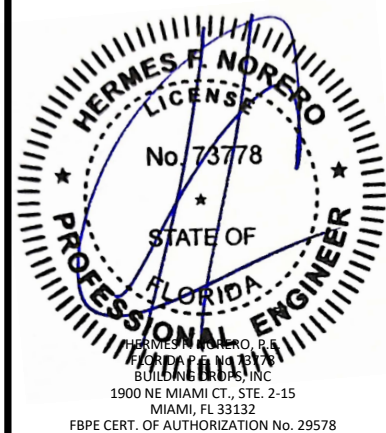
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SCALE: **NTS**

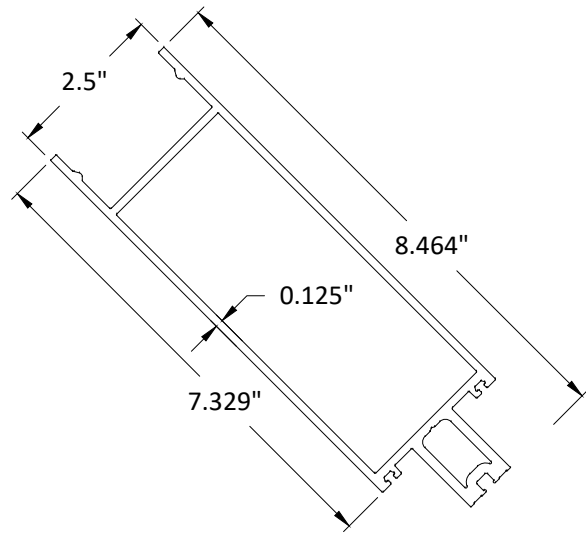
DWG. #: **TLI016**

SECTION  
**9.2**

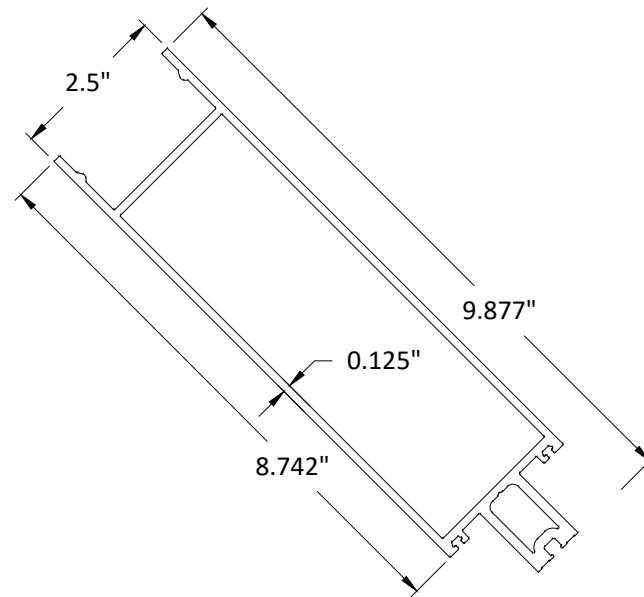
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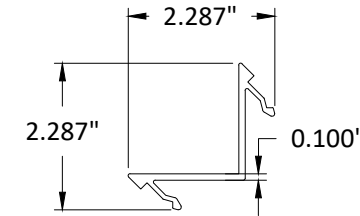
# COMPONENTS



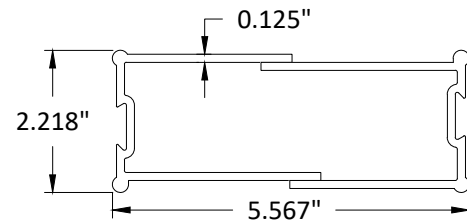
85 TUBE, CORNER, ANGLED BACK  
ALUMINUM 6063-T6



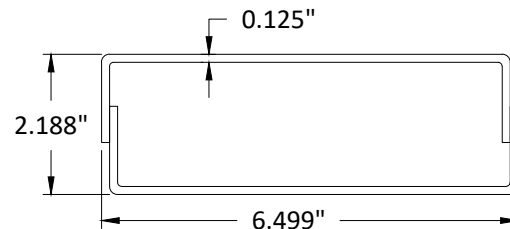
86 TUBE, CORNER, ANGLED BACK  
ALUMINUM 6063-T6



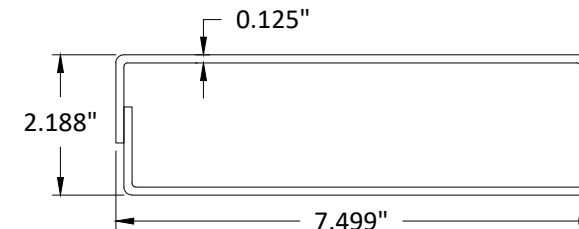
87 CORNER, ANGLED BACK COVER  
ALUMINUM 6063-T6



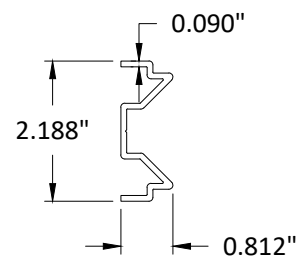
88 MULLION SPLICE, INTMD.  
ALUMINUM 6063-T5



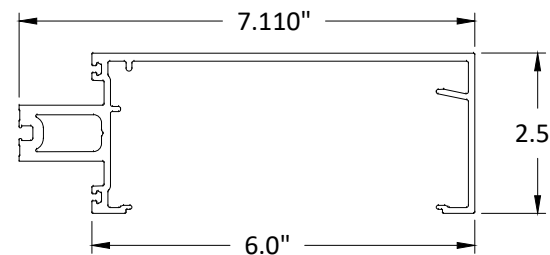
89 MULLION SPLICE, INTMD.  
ALUMINUM 6063-T5



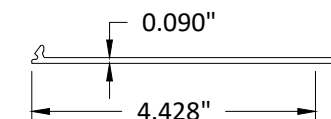
90 MULLION SPLICE, INTMD.  
ALUMINUM 6063-T5



110 MULLION SPLICE, INTMD.  
ALUMINUM 6063-T5



111 EXTRUSION, TUBE, ROLL-OVER/DOWN  
ALUMINUM 6063-T6



112 EXTRUSION, FLUSH FILLER  
ALUMINUM 6063-T5

**TUBELITE®**  
DEPENDABLE  
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DATE: **12.19.23**

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

SCALE: **NTS**

DWG. #: **TLI016**

SECTION

**9.3**

# BILL OF MATERIALS

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

3056 WALKER RIDGE DRIVE N.W.  
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ITEM	PART NO.	DESCRIPTION	MATERIAL
1	E55TBC223	EXTRUSION, TUBE, NON-THERMAL	ALUMINUM - 6063-T6
2	E55TBC245	EXTRUSION, TUBE, OPEN-BACK	ALUMINUM - 6063-T6
4	E55TBC121	EXTRUSION, TUBE, 4" INTERMEDIATE	ALUMINUM - 6063-T6
5	E55TBC03	EXTRUSION, TUBE, ROLL-OVER/DOWN	ALUMINUM - 6063-T6
7	E55TBC302	EXTRUSION, TUBE, HD TUBULAR	ALUMINUM - 6063-T6
8	E55TBC88	EXTRUSION, TUBE, CORNER	ALUMINUM - 6063-T6
9	E4TB52	EXTRUSION, OUTSIDE CORNER ADAPTOR, CAPTURED	ALUMINUM - 6063-T5
12	E55TB06	EXTRUSION, FLUSH FILLER	ALUMINUM - 6063-T5
13	E4TB64	EXTRUSION, COVER, FACE, 2-1/2" X 3/4"	ALUMINUM - 6063-T5
14	E4TB285	EXTRUSION, COVER, FACE, 4" X 3/4"	ALUMINUM - 6063-T5
15	E4TB289	EXTRUSION, COVER, FACE, OUTSIDE CORNER, CAPTURED	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
24	PTB60	SHEAR BLOCK	ALUMINUM - 6063-T5
25	P1771D	SHEAR BLOCK	ALUMINUM - 6063-T5
26	PTB49	SHEAR BLOCK	ALUMINUM - 6063-T5
28	PTB112	ROLL-OVER HORIZONTAL SHEAR BLOCK	ALUMINUM - 6063-T5
29	PTB286	POCKET FILLER	PVC
31	E3162	F-ANCHOR CLIP	ALUMINUM - 6063-T5
34	E4TB69	REDUCER	ALUMINUM - 6063-T5
35	P1627D	MULLION SPLICE, INTERMEDIATE	ALUMINUM - 6063-T5
41	PTB352	MULLION SPLICE, OUTSIDE CORNER ADAPTOR, CAPTURED	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
45	P2064	GASKET, THERMAL BARRIER, LIVE LOAD	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
53	P4743	OS 90 SHEAR CLIP	P-PART - 6063-T5
54	E0536	MULLION CLIP	ALUMINUM - 6063-T5
55	-	A36 STEEL, TUBE, 2" X 4" X 11 GA., 120" LONG	P-PART - STEEL
56	-	A36 STEEL, TUBE, 2" X 4" X 1/4", 120" LONG	P-PART - STEEL
57	-	A36 STEEL, TUBE, 2" X 4" X 5/16", 120" LONG	P-PART - STEEL
58	-	A36 STEEL, CHANNEL, C4 X 5.4, 120" LONG	P-PART - STEEL
59	-	A36 STEEL, CHANNEL, C4 X 5.4, 198" LONG	P-PART - STEEL

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
65	S425	SCREW, 1/4"-20 X 3", HEX HD TYPE F	P-PART - FASTENER
66	S455	SCREW, 1/4"-20 X 2", 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
80	E6TBC121	EXTRUSION, TUBE, 4" INTERMEDIATE	ALUMINUM - 6063-T6
81	E7TBC121	EXTRUSION, TUBE, 4" INTERMEDIATE	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
92	P1771C	SHEAR BLOCK	ALUMINUM - 6063-T5

TITLE: SERIES 400T CURTAIN WALL - CAPTURED GLASS (WZ3) (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. #: **TLI016**  
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
96	P1771B	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
103	P1628	FACE COVER SPLICE SLEEVE	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
111	E6TBC173	EXTRUSION, TUBE, ROLL-OVER/DOWN	ALUMINUM - 6063-T6
112	E6TB175	EXTRUSION, FLUSH FILLER	ALUMINUM - 6063-T5
113	PTB113	ROLL-OVER HORIZONTAL SHEAR BLOCK	ALUMINUM - 6063-T5

**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

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SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT



## 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	-	-	-	-
80	E6TBC121	-	-	92	P1771C	-	-	-	-	-	-
111	E6TBC173	-	-	113	PTB113	-	-	-	-	-	-
77	E7TBC02	93	P2059	94	PTB62A	95	PTB51A	108	P4741	101	P1632A
81	E7TBC121	-	-	96	P1771B	-	-	-	-	-	-
85	E7TBC88	108	P4741	-	-	-	-	108	P4741	101 & 110	P1632A & PTB350
78	E8TBC02	97	P2060	98	PTB62C	99	PTB51B	109	P4744	102	P1632B
86	E8TBC88	109	P4744	-	-	-	-	109	P4744	102 & 110	P1632B & PTB350

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SECTION

**9.5**

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