

SERIES 400T CURTAIN WALL - CAPTURED GLASS (HVHZ) (IMPACT)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- 2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBERS OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- 3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITH OUT CONSIDERATION OF TOLERANCE). TOLERANCE ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- 4. REFER TO SECTION 7 FOR ANCHOR TYPE, SUBSTRATE STRENGTH, EMBEDMENT, & EDGE DISTANCE REQUIREMENTS. FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS FOR INSTALLATION OF ANCHORS.
- 5. 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.
- 7. 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

- STEP 1. DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2. SEE CHARTS ON SECTION 6 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3. CHECK MULLION CAPACITY FOR A GIVEN SPACING, HEIGHT, SINGLE SPAN, TWIN SPAN, MULTIPLE SPANS AND CORNERS ON SECTIONS 3 & 4.
- STEP 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.
- STEP 5. THE LOWEST VALUE RESULTING FROM STEPS 2, 3, AND 4 SHALL APPLY TO FNTIRE SYSTEM.

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE, **INCLUDING** REQUIREMENTS FOR HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
- AAMA 501-15
- ASTM E283-19
- ASTM E330-14(21)
- ASTM E331-00(16)
- ASTM E1886-19ASTM E1996-20
- TAS 201-94
- TAS 201-94
- TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND STEEL
 STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF
 WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE
 FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF
 RECORD FOR THE PROJECT OF INSTALLATION.
- 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND THE INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 4. 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.
- 6. 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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LEADERS IN ECO-EFFICIENT STOREFROM

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

CAPTURED GLASS
(HVHZ) (IMPACT)

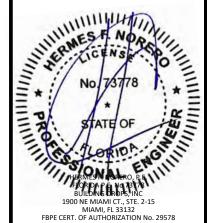
COVER SHEET & GENERAL NOTES

REPARED BY:
BUILDING I
1900 NE MIANI

REMARKS BY DATE

MULLION UPDATE DI 2/2024

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FO A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT



FL#: FL46180

DATE: 12.19.23

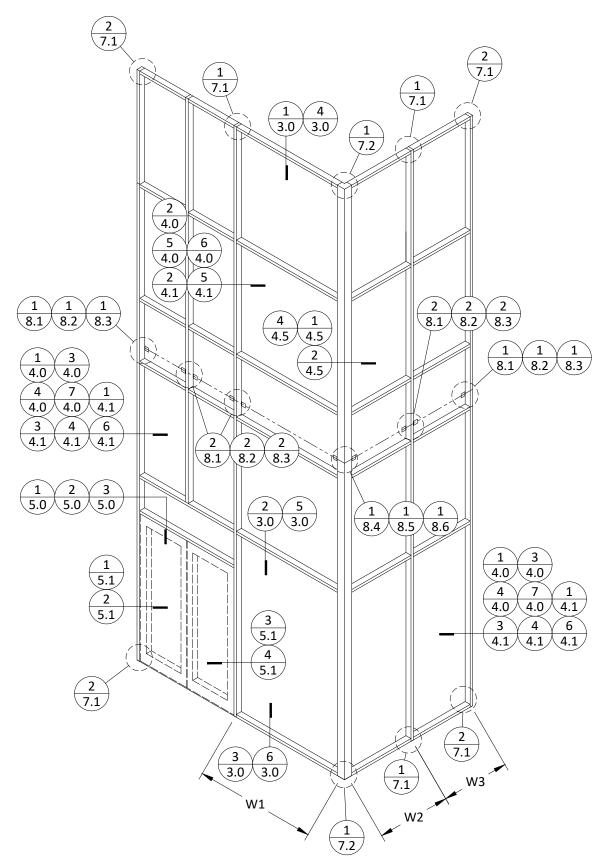
DATE: 12.19.23

DWG. BY: CHK. BY:

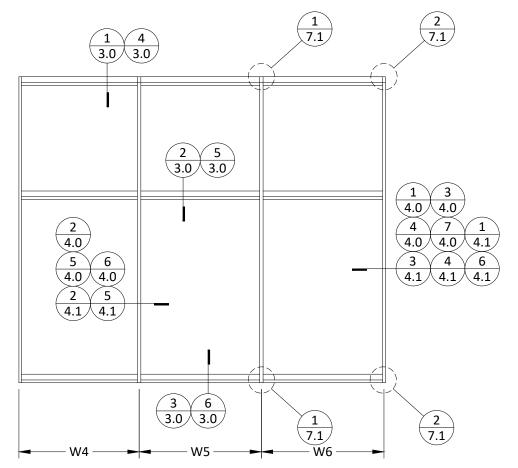
SCALE: NTS

DWG. #: TLIO15

SECTION



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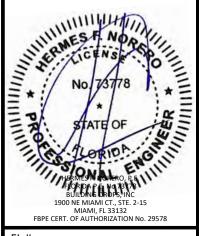
TITLE: SERIES 400T CURTAIN WALL CAPTURED GLASS (HVHZ) (IMPACT)

ELEVATIONS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT., STE. 2-15
MIAMI, FL 33132
PH: (954)744,4738
FAX: (954)744,4738 BY DATE

REMARKS DI 2/2024 MULLION UPDATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION A SPECIFIC STIE. IS THE CONTINUOS ACCOSE INSTALLATION O
DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN,
LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE
SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT



FL46180

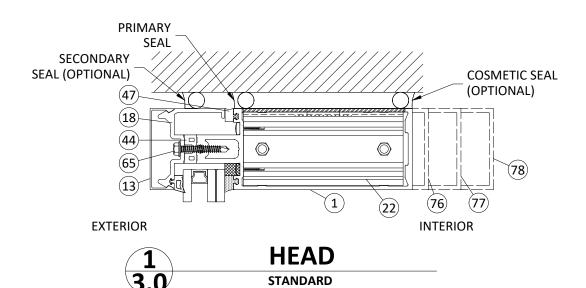
12.19.23 DATE:

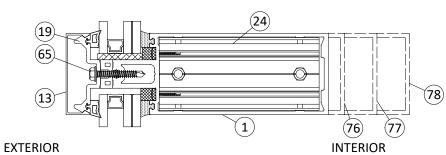
DWG. BY:

CHK. BY: NTS SCALE:

TLI015 DWG. #:

SECTION

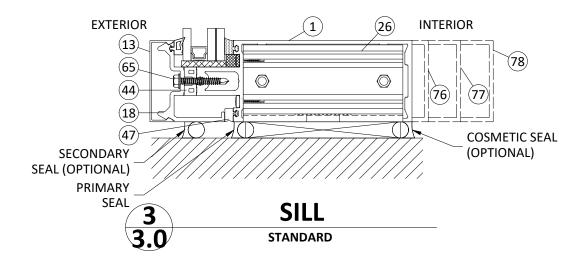


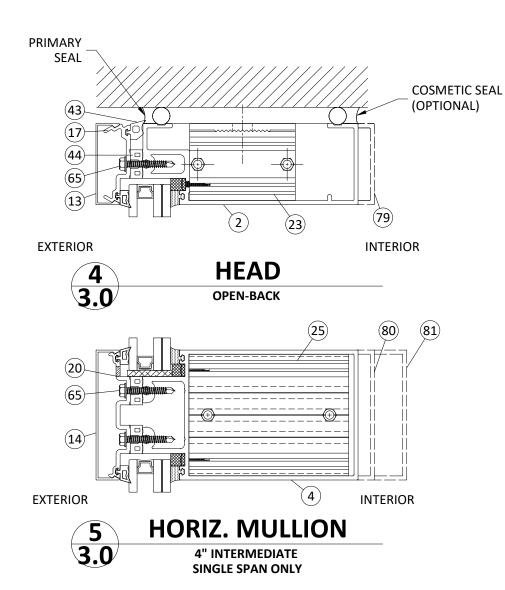


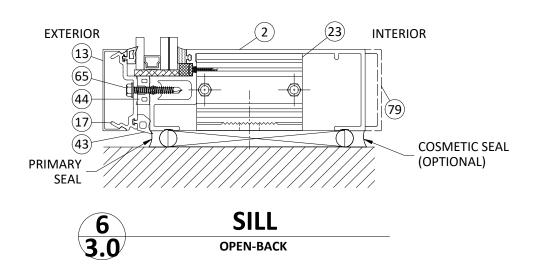
DESIGN PRESSURE TABLE:					
HORIZONTAL MEMBER					
MAX. MEMBER SPAN DESIGN PRESSURE					
LENGTH "W" (IN.) (PSF)					
61.25 +90 / -90					
NOTE: HORIZONTAL MEN	MRER CAPACITY IS				

NOTE: HORIZONTAL MEMBER CAPACITY IS LIMITED BY SINGLE SPAN.









TUBELITE°

LEADERS IN ECO-EFFICIENT STOREFROI

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APTURED GLASS HVHZ) (IMPACT)

HORIZONTAL SECTIONS

BUILDING DROPS,

1900 NE MIAMI CT., STE. 2.

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

REMARKS BY DATE

MULLION UPDATE DI 2/2024

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FL46180

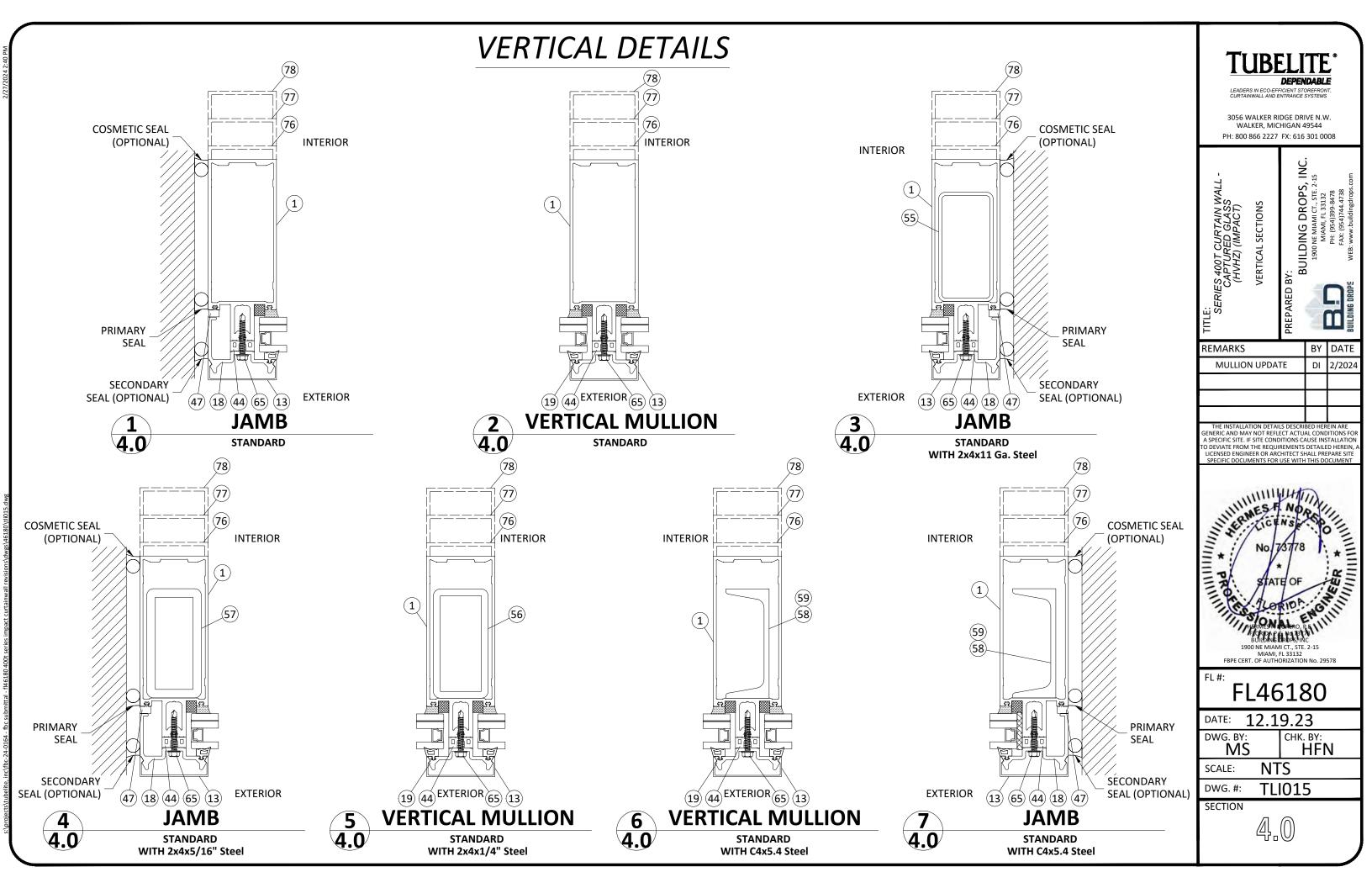
DATE: 12.19.23

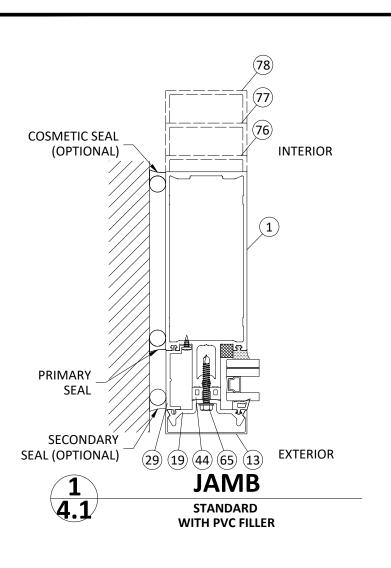
DWG. BY: CHK. BY: HFN

SCALE:

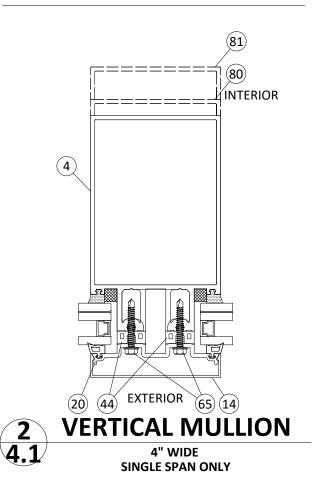
SCALE: NTS
DWG. #: TLIO15

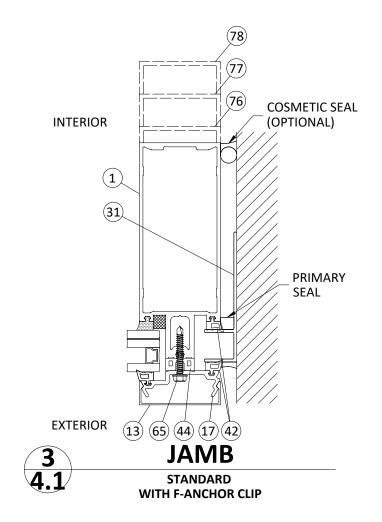
SECTION

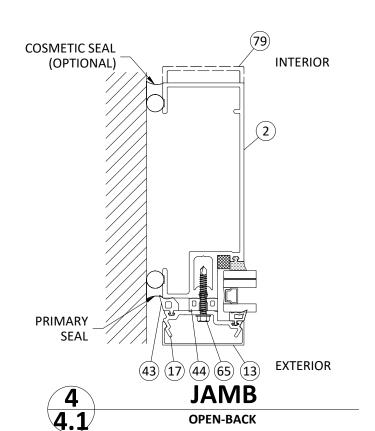


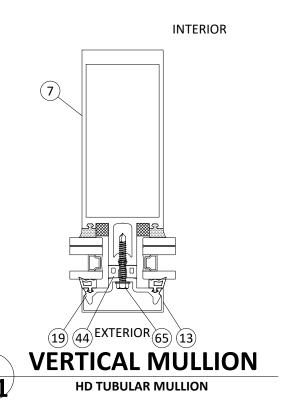


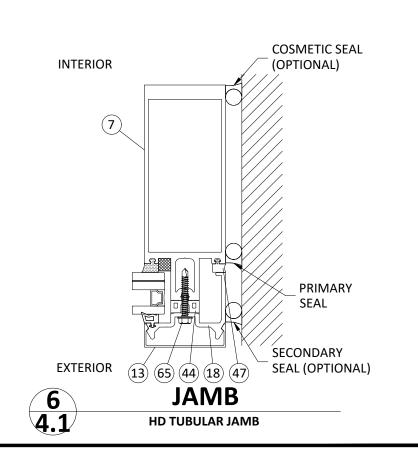
VERTICAL DETAILS













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

VERTICAL SECTIONS

REMARKS

BY DATE

MULLION UPDATE

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1900 NE MIAMI CT., STE. 2-15 MIAMI, FL 33132 FBPE CERT. OF AUTHORIZATION No. 29578

FL46180

12.19.23 DATE: CHK. BY: DWG. BY:

MS NTS SCALE:

TLI015 DWG. #:

NOTE:

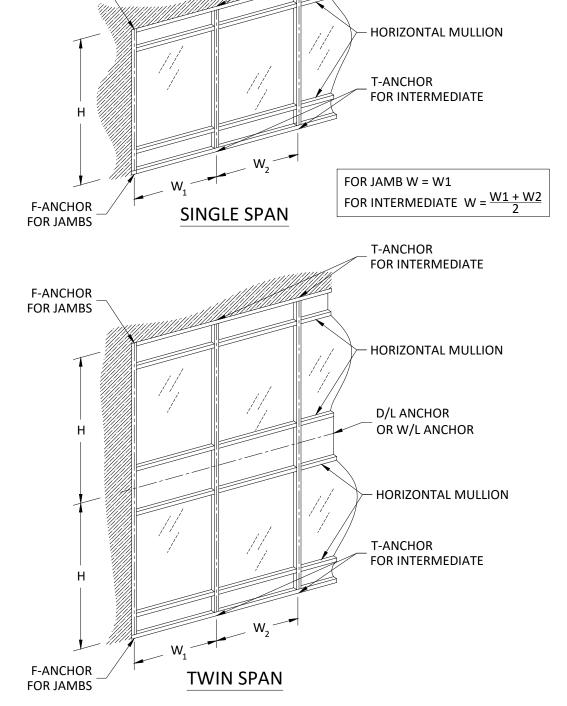
F-ANCHOR **FOR JAMBS**

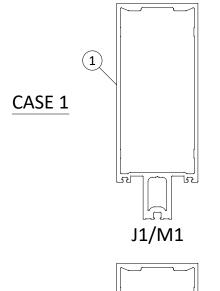
- DESIGN PRESSURES ARE LIMITED BY THE MULLION FIBERSTRESS AND DEFLECTION CAPACITY PER FBC CURRENT SPECIFICATIONS FOR HVHZ
- SELECT DESIGN PRESSURE AND PANEL WIDTH (W) AND OBTAIN THE MAXIMUM ALLOWABLE DESIGN PRESSURE FOR MULLION.

T-ANCHOR

FOR INTERMEDIATE

- FOR HORIZONTAL MULLIONS CAPACITY, SEE HORIZONTAL MULLION CHART.
- WHEN PANEL WIDTHS ARE NOT EQUAL, USE THE AVERAGE WIDTH ON THE





(1)

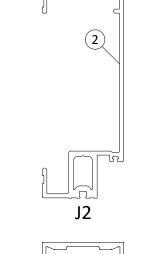
(1)

J4

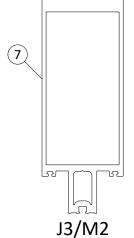
J7/M5

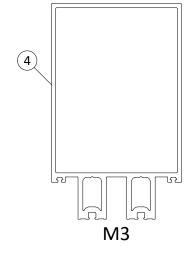
CASE 2

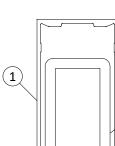
CASE 3

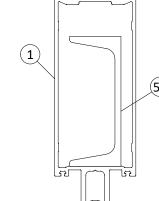


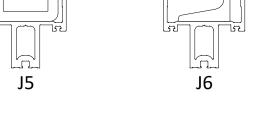
(1)











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

M4

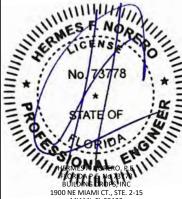
THE 5.5" MULLION IS SHOWN ABOVE. THE 6", 7" & 8" MULLIONS ARE QUALIFIED FOR THE SAME SIZES AND PRESSURES SHOWN ON SECTION 4.3 AND 4.4.

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

VERTICAL SECTIONS

REMARKS BY DATE MULLION UPDATE

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FL46180

12.19.23 DATE: CHK. BY: DWG. BY:

MS SCALE:

NTS **TLI015** DWG. #:

SECTION

HFN

VERTICAL MULLION CAPACITY

DESIGN PRESSURE TABLE (PSF)						
TRIBUTARY		CAS	SE 1		CASE 2	
WIDTH	SPAN HEIGHT	J1/J2/J3	M1/M2/M3	J4	J5/J6	M4
(INCH)	(INCH)	EXT. (+)				
(IIVCII)		INT. (-)				
24		90.0	70.0	90.0	90.0	90.0
30	1	90.0	70.0	90.0	90.0	90.0
36		90.0	70.0	90.0	90.0	90.0
42	1 00	90.0	70.0	90.0	90.0	90.0
48	90	90.0	70.0	90.0	90.0	90.0
54		90.0	70.0	90.0	90.0	90.0
60	1	90.0	70.0	90.0	90.0	90.0
61.25		70.0	70.0	90.0	90.0	90.0
24		90.0	70.0	90.0	90.0	90.0
30		90.0	70.0	90.0	90.0	90.0
36	1	90.0	70.0	90.0	90.0	90.0
42	1 05	90.0	70.0	90.0	90.0	90.0
48	96	90.0	70.0	90.0	90.0	90.0
54	1	90.0	70.0	90.0	90.0	90.0
60	1	70.0	70.0	90.0	90.0	90.0
61.25	†	70.0	70.0	90.0	90.0	90.0
24		90.0	70.0	90.0	90.0	90.0
30	-	90.0	70.0	90.0	90.0	90.0
36		90.0	70.0	90.0	90.0	90.0
42		90.0	70.0	90.0	90.0	90.0
48	102	90.0	70.0	90.0	90.0	90.0
54		70.0	70.0	90.0	90.0	90.0
60	† †	70.0	70.0	90.0	90.0	90.0
61.25		70.0	70.0	90.0	90.0	90.0
24		90.0	70.0	90.0	90.0	90.0
30		90.0	70.0	90.0	90.0	90.0
36		90.0	70.0	90.0	90.0	90.0
42		90.0	70.0	90.0	90.0	90.0
48	108	90.0	70.0	90.0	90.0	90.0
54		70.0	70.0	90.0	90.0	90.0
60		70.0	70.0	90.0	90.0	90.0
61.25		70.0	70.0	90.0	90.0	90.0
24		90.0	70.0	90.0	90.0	90.0
30	† †	90.0	70.0	90.0	90.0	90.0
36	†	90.0	70.0	90.0	90.0	90.0
42	1 F	90.0	70.0	90.0	90.0	90.0
48	114	86.9	70.0	90.0	90.0	90.0
54	†	70.0	70.0	90.0	90.0	90.0
60	† †	70.0	70.0	90.0	90.0	90.0
61.25	†	70.0	70.0	90.0	90.0	90.0
24		90.0	70.0	90.0	90.0	90.0
30	†	90.0	70.0	90.0	90.0	90.0
36	 	90.0	70.0	90.0	90.0	90.0
42	 	87.3	70.0	90.0	90.0	90.0
48	119	70.0	70.0	90.0	90.0	90.0
54	 	70.0	70.0	90.0	90.0	90.0
60	 	70.0	70.0	90.0	90.0	90.0
UU	-	70.0	70.0	50.0	50.0	50.0

DESIGN PRESSURE TABLE (PSF)				
TDIDLITADY			CASE 2	
TRIBUTARY WIDTH	SPAN HEIGHT	J4	J5/J6	M4
(INCH)	(INCH)	EXT. (+)	EXT. (+)	EXT. (+)
(IIVCII)		INT. (-)	INT. (-)	INT. (-)
24		90.0	90.0	90.0
30		90.0	90.0	90.0
36		90.0	90.0	90.0
42	126	90.0	90.0	90.0
48	126	90.0	90.0	90.0
54		90.0	90.0	90.0
60	1	-	90.0	90.0
61.25		-	90.0	90.0
24		90.0	90.0	90.0
30]	90.0	90.0	90.0
36]	90.0	90.0	90.0
42	1 422	90.0	90.0	90.0
48	132	90.0	90.0	90.0
54		90.0	90.0	90.0
60		-	90.0	90.0
61.25		_	90.0	90.0
24		90.0	90.0	90.0
30		90.0	90.0	90.0
36		90.0	90.0	90.0
42	1	90.0	90.0	90.0
48	138	90.0	90.0	90.0
54	1	-	90.0	90.0
60		_	90.0	90.0
61.25		_	90.0	90.0
24		90.0	90.0	90.0
30		90.0	90.0	90.0
36	1	90.0	90.0	90.0
42	1	90.0	90.0	90.0
48	144	90.0	90.0	90.0
54	1	-	90.0	90.0
60	1	_	90.0	90.0
61.25	1	<u>-</u>	90.0	90.0
24		90.0	90.0	90.0
30	-	90.0	90.0	90.0
36	1	90.0	90.0	90.0
42	-	90.0	90.0	90.0
48	148.25	90.0	90.0	90.0
49	140.23	90.0	90.0	90.0
49 54	-	50.0	90.0	90.0
60	-	-	90.0	90.0
61.25	-	-		
01.25		-	90.0	90.0

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

VERTICAL SECTIONS

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI, FI. 33132

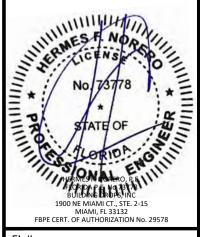
MIAMI, FI. 33132

PH: (954)734-4738

FAX: (954)744-4738

REMARKS BY DATE MULLION UPDATE

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FL46180

DATE: 12.19.23

DWG. BY: SCALE:

CHK. BY: NTS

DWG. #:

TLI015

DESIGN PRESSURE TABLE (PSF) CASE 3 **TRIBUTARY** SPAN HEIGHT M5 WIDTH (INCH) EXT. (+) (INCH) EXT. (+) INT. (-) INT. (-) 78.0 71.0 70.0 78.0 71.0 70.0 30 36 78.0 71.0 70.0 42 90 78.0 71.0 70.0 48 78.0 71.0 70.0 71.0 54 78.0 70.0 60 78.0 71.0 70.0 78.0 71.0 70.0 24 30 78.0 71.0 70.0 36 78.0 71.0 70.0 42 96 78.0 71.0 70.0 48 71.0 70.0 78.0 54 71.0 78.0 70.0 60 78.0 71.0 70.0 71.0 24 78.0 70.0 30 78.0 71.0 70.0 36 78.0 71.0 70.0 71.0 42 102 78.0 70.0 48 71.0 70.0 78.0 54 78.0 71.0 70.0 71.0 60 78.0 70.0 71.0 24 78.0 70.0 30 78.0 71.0 70.0 71.0 70.0 36 78.0 42 108 71.0 70.0 78.0 71.0 48 78.0 70.0 54 78.0 71.0 70.0 60 78.0 71.0 70.0 24 78.0 71.0 70.0 71.0 30 78.0 70.0 36 78.0 71.0 70.0 42 114 78.0 71.0 70.0 48 78.0 71.0 70.0 54 71.0 78.0 70.0 71.0 70.0

DESIGN PRESSURE TABLE (PSF)				
TRIBUTARY			CASE 3	
WIDTH	SPAN HEIGHT	J	7	M5
(INCH)	(INCH)	EXT. (+)	INT. (-)	EXT. (+) INT. (-)
24		78.0	71.0	70.0
30		78.0	71.0	70.0
36	1	78.0	71.0	70.0
42	120	78.0	71.0	70.0
48		78.0	71.0	70.0
54		78.0	71.0	70.0
60		78.0	71.0	70.0
24		78.0	71.0	70.0
30		78.0	71.0	70.0
36		78.0	71.0	70.0
42	126	78.0	71.0	70.0
48		78.0	71.0	70.0
54		78.0	71.0	70.0
60		78.0	71.0	70.0
24		78.0	71.0	70.0
30	1	78.0	71.0	70.0
36		78.0	71.0	70.0
42	132	78.0	71.0	70.0
48		78.0	71.0	70.0
54		78.0	71.0	70.0
60		78.0	71.0	70.0
24		78.0	71.0	70.0
30	_	78.0	71.0	70.0
36		78.0	71.0	70.0
42	138	78.0	71.0	70.0
48] [78.0	71.0	70.0
54		78.0	71.0	70.0
60	<u> </u>	78.0	71.0	70.0
24		78.0	71.0	70.0
30		78.0	71.0	70.0
36	144	78.0	71.0	70.0
42	144	78.0	71.0	70.0
48] [78.0	71.0	70.0
54		78.0	71.0	70.0

TRIBUTARY			CASE 3	
WIDTH	SPAN HEIGHT	J	7	M
(INCH)	(INCH)	EXT. (+)	INT. (-)	EXT. INT.
24		78.0	71.0	70.
30		78.0	71.0	70.
36	150	78.0	71.0	70.
42	150	78.0	71.0	70.
48		78.0	71.0	70.
54		78.0	71.0	70.
24		78.0	71.0	70.
30		78.0	71.0	70.
36	156	78.0	71.0	70.
42	130	78.0	71.0	70.
48		78.0	71.0	70.
54		78.0	71.0	70.
24		78.0	71.0	70.
30		78.0	71.0	70.
36	162	78.0	71.0	70.
42	102	78.0	71.0	70.
48		78.0	71.0	70.
52		78.0	71.0	70.
24		78.0	71.0	70.
30		78.0	71.0	70.
36	168	78.0	71.0	70.
42	100	78.0	71.0	70.
48		78.0	71.0	70.
51		78.0	71.0	70.
24		78.0	71.0	70.
30		78.0	71.0	70.
36	174	78.0	71.0	70.
42		78.0	71.0	70
48		78.0	71.0	70.
49.25		78.0	71.0	70.

LEADERS IN ECO-EFFICIENT STOREFRO

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

S 400T CURTAIN WALL -APTURED GLASS (HVHZ) (IMPACT)

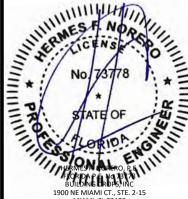
VERTICAL SECTIONS

BUILDING DROPS, INC 1900 NE MIAMI CT., STE. 2-15 NIAMI, F. 133132 PH: (954)399-8478 FAX: (954)744.4738 WEB: www.buildingdrops.com

REMARKS BY DATE

MULLION UPDATE DI 2/2024

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1900 NE MIAMI CT., STE. 2-15 MIAMI, FL 33132 FBPE CERT. OF AUTHORIZATION No. 29578

FL46180

DATE: 12.19.23

DWG. BY: CHK. BY:

MS HFN

SCALE: NTS

DWG. #: TLI015

SECTION

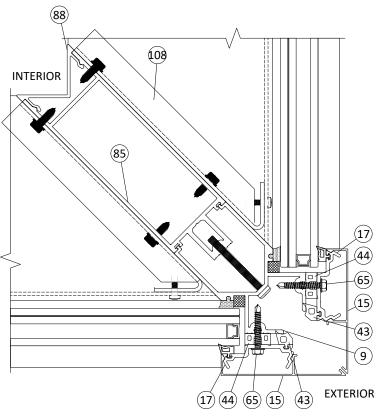
4.4

s:\projects\tubelite, inc\fbc-24-0164 - fbc submittal - f46180 400t series impact curtainwall revisions\dwgs\46180\til015.dwg

4.5

CORNER

STANDARD 90 DEGREE OUTSIDE CORNER



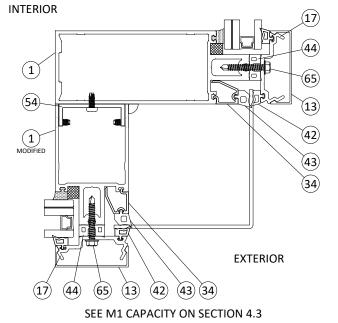
SEE C1-C3 CAPACITY ON SECTION 4.7



CORNER

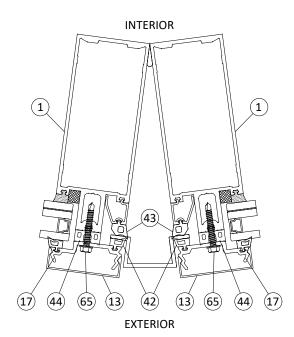
90 DEGREE ANGLED BACK 90 DEGREE OUTSIDE CORNER

CORNER DETAILS



SPLAYED CORNER

SEE J1 CAPACITY ON SECTION 4.3



CORNER

NOTE:

CORNER

90 DEGREE OUTSIDE CORNER

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.

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

VERTICAL SECTIONS

REMARKS

BY DATE

MULLION UPDATE THE INSTALLATION DETAILS DESCRIBED HEREIN ARE SENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FO

A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION A SPECIFIC STIE. IS THE CONTINUOS CAUGE INSTALLATION
O DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN,
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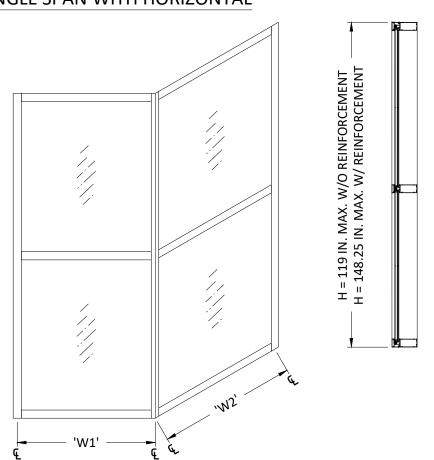
12.19.23 DATE:

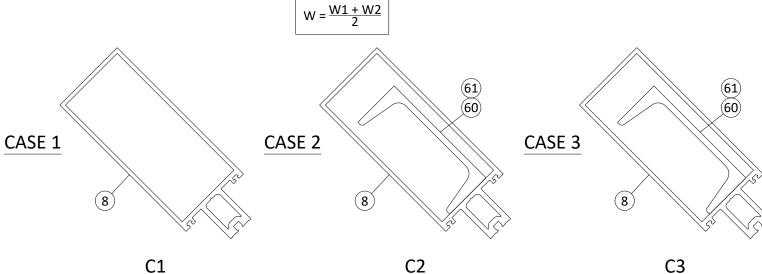
CHK. BY: DWG. BY: MS

NTS SCALE: **TLI015** DWG. #:

CORNER MULLION CAPACITY

CORNER MULLION WITH REINFORCING TWIN SPAN WITH HORIZONTAL

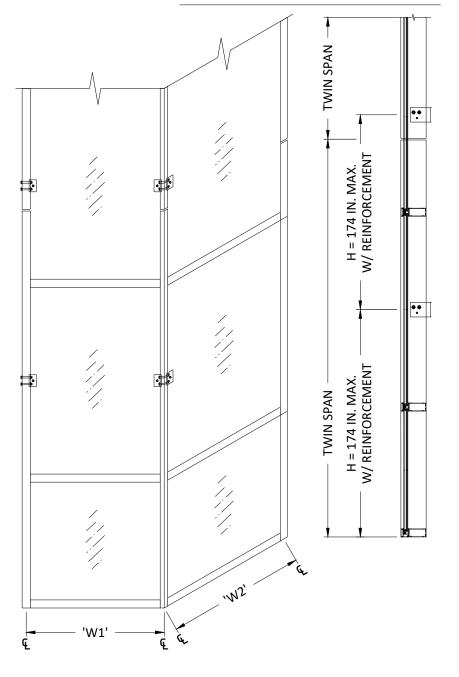




C2 **C3**

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.



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

3056 WALKER RIDGE DRIVE N.W. WALKER, MICHIGAN 49544

VERTICAL SECTIONS

PREPARED BY:
BUILDING DROPS, IN

BY DATE

REMARKS MULLION UPDATE

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12.19.23 DATE:

DWG. BY: CHK. BY: NTS SCALE:

DWG. #:

TLI015

SECTION

CORNER MULLION CAPACITY

DESIGN PRESSURE TABLE (PSF)					
TRIBUTARY		CASE 1	CASE 2		
WIDTH	SPAN HEIGHT	C1	C2		
	(INCH)	EXT. (+)	EXT. (+)		
(INCH)		INT. (-)	INT. (-)		
24		70.0	90.0		
30	-	70.0	90.0		
36		70.0	90.0		
42		70.0	90.0		
48	90	70.0	90.0		
54	1	70.0	90.0		
60		70.0	90.0		
61.25	-	70.0	90.0		
24		70.0	90.0		
30	-	70.0	90.0		
36	1	70.0	90.0		
42	1	70.0	90.0		
42	96	70.0	90.0		
54	-	70.0	90.0		
60	-	70.0			
61.25	_		90.0		
		70.0	90.0		
24	-	70.0	90.0		
30		70.0	90.0		
36	-	70.0	90.0		
42	102	70.0	90.0		
48		70.0	90.0		
54		70.0	90.0		
60		70.0	90.0		
61.25		70.0	90.0		
24		70.0	90.0		
30		70.0	90.0		
36		70.0	90.0		
42	108	70.0	90.0		
48		70.0	90.0		
54		70.0	90.0		
60		70.0	90.0		
61.25		70.0	90.0		
24		70.0	90.0		
30]	70.0	90.0		
36]	70.0	90.0		
42]	70.0	90.0		
48	114	70.0	90.0		
54	1	70.0	90.0		
60	1	70.0	90.0		
61.25	1	70.0	90.0		
24		70.0	90.0		
30	1	70.0	90.0		
36	1	70.0	90.0		
42	1	70.0	90.0		
48	119	70.0	90.0		
54	-	70.0	90.0		
60	-	70.0			
	-		90.0		
61.25		70.0	90.0		

DESIGN PRESSURE TABLE (PSF)					
TRIBUTARY		CASE 2			
WIDTH	SPAN HEIGHT	C2			
(INCH)	(INCH)	EXT. (+)			
(IIVCH)		INT. (-)			
24		90.0			
30		90.0			
36		90.0			
42	126	90.0			
48	126	90.0			
54		90.0			
60		90.0			
61.25]	90.0			
24		90.0			
30		90.0			
36]	90.0			
42	122	90.0			
48	132	90.0			
54		90.0			
60		90.0			
61.25		90.0			
24		90.0			
30		90.0			
36		90.0			
42	420	90.0			
48	138	90.0			
54		90.0			
60		89.1			
61.25		87.3			
24		90.0			
30		90.0			
36		90.0			
42	1	90.0			
48	144	90.0			
54		90.0			
60	1	81.8			
61.25	1	80.2			
24		90.0			
30	1	90.0			
36	1	90.0			
42	1	90.0			
48	148.25	90.0			
49	-	90.0			
54	1	85.4			
60	1	76.9			
61.25	† †	75.3			
01.23		13.3			

DESIGN	PRESSURE (PSF)	TABLE
TDIDLITADY		CASE 3
TRIBUTARY	SPAN HEIGHT	C3
WIDTH	(INCH)	EXT. (+)
(INCH)	, ,	INT. (-)
24		70.0
30		70.0
36	-	70.0
42	90	70.0
48	1	70.0
54	1	70.0
60	1	70.0
24		70.0
30]	70.0
36] [70.0
42	96	70.0
48] [70.0
54		70.0
60		70.0
24		70.0
30		70.0
36		70.0
42	102	70.0
48		70.0
54		70.0
60		70.0
24		70.0
30		70.0
36		70.0
42	108	70.0
48		70.0
54		70.0
60		70.0
24		70.0
30		70.0
36		70.0
42	114	70.0
48	-	70.0
54		70.0
60		70.0
24	-	70.0
30	-	70.0
36	120	70.0
42	120	70.0
48	-	70.0
54	-	70.0
60		70.0
24	-	70.0
30	-	70.0
36 42	126	70.0
	126	70.0
48 54	-	70.0
	-	70.0
60	OU	70.0

DESIGN PRESSURE TABLE (PSF)				
		CASE 3		
TRIBUTARY	SPAN HEIGHT	C3		
WIDTH	(INCH)	EXT. (+)		
(INCH)	(IIII)	INT. (-)		
2.4				
24	-	70.0		
30		70.0		
36	400	70.0		
42	132	70.0		
48		70.0		
54	_	70.0		
60		70.0		
24		70.0		
30		70.0		
36		70.0		
42	138	70.0		
48	1	70.0		
54		70.0		
60		70.0		
24		70.0		
30	1	70.0		
36	-	70.0		
42	144	70.0		
48	144	70.0		
54	-	70.0		
60	-			
24		70.0 70.0		
	-			
30	-	70.0		
36	150	70.0		
42	4	70.0		
48	_	70.0		
54		70.0		
24		70.0		
30		70.0		
36	156	70.0		
42		70.0		
48		70.0		
54		70.0		
24		70.0		
30		70.0		
36	162	70.0		
42	162	70.0		
48		70.0		
54	1	70.0		
24		70.0		
30	† †	70.0		
36	† †	70.0		
42	168	70.0		
48		70.0		
53	-	70.0		
33 				
	-	70.0		
30	-	70.0		
36	174	70.0		
42	-	70.0		
48		70.0		
51.25		70.0		

DEPENDABLE

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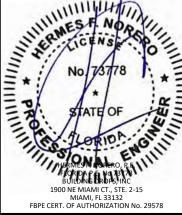
VERTICAL SECTIONS

BUILDING DROPS, INC.

1900 NE MIAMI CT., STE. 2-15
MIAMI, FL 33132
PH: (954)734, 4738
FAX. (954)744, 4738

REMARKS BY DATE MULLION UPDATE

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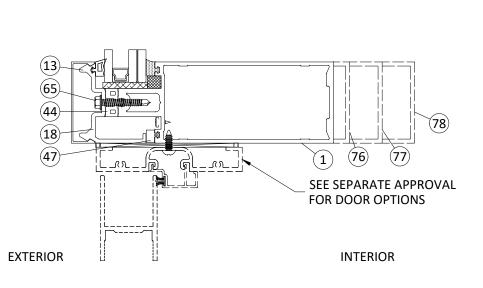
FL46180

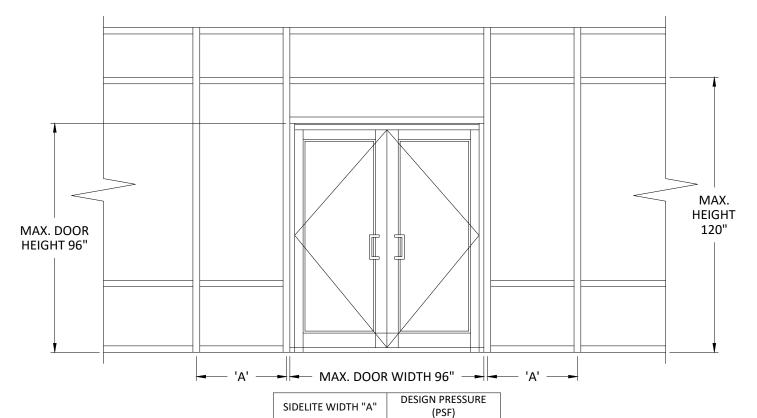
DATE: 12.19.23 CHK. BY: DWG. BY:

MS SCALE:

NTS DWG. #: **TLI015**

DOOR SECTION DETAILS



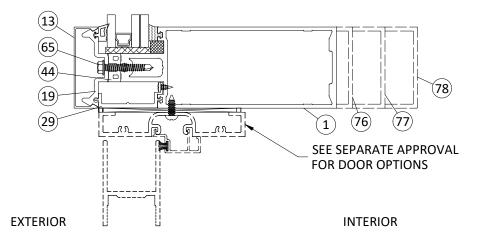


49.25

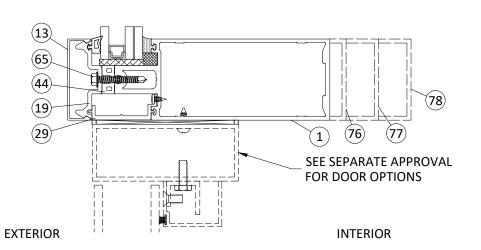


DOOR HEAD

WITH TRANSOM STANDARD







+70 / -70



TUBELITE°

LEADERS IN ECO-EFFICIENT STOREFRO

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

ON DETAILS

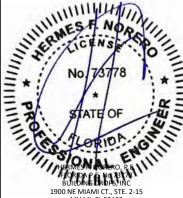
DOOR SECTION DETAILS

EPAKEU BY: BUII

REMARKS BY DATE

MULLION UPDATE DI 2/2024

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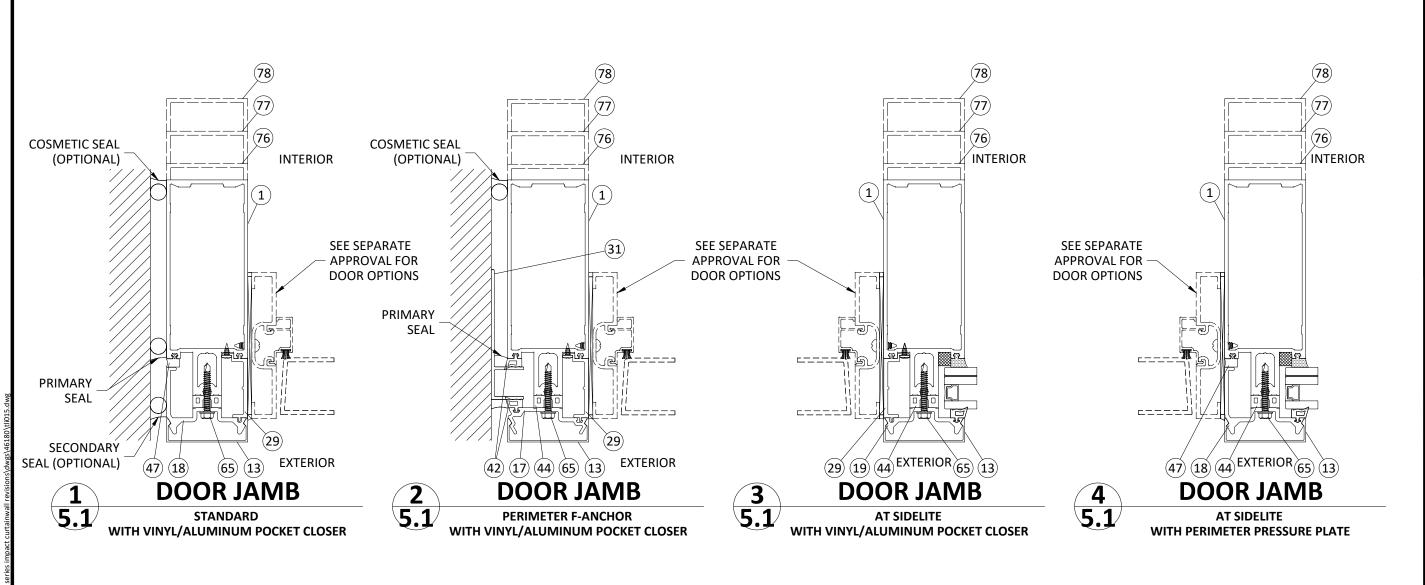
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DWG. BY: CHK. BY: HFN

SCALE: NTS

DWG. #: TLI015

SECTION



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

DOOR SECTION DETAILS

BUILDING DROPS,

REMARKS BY DATE MULLION UPDATE

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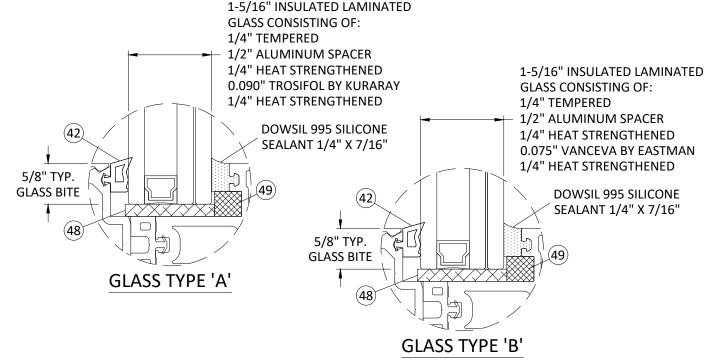
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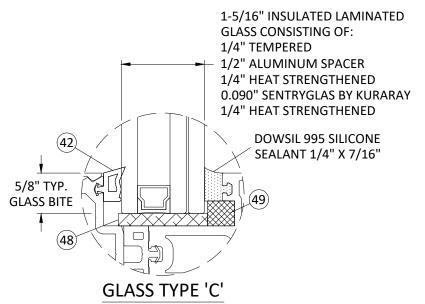
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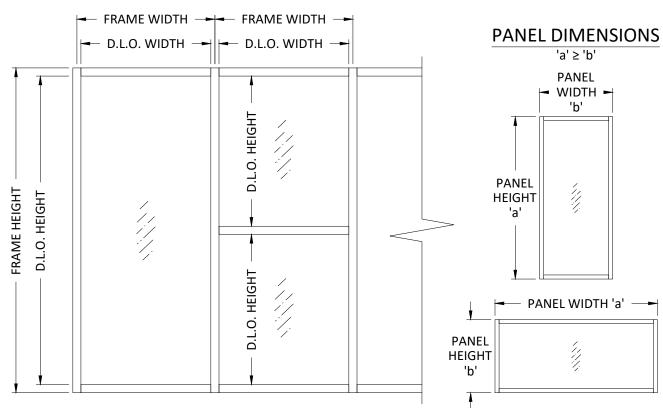
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TLI015

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







GLAZING NOTES:

1. 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

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

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

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

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

GLAZING DETAILS

BUILDING DROPS,

REMARKS BY DATE MULLION UPDATE

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12.19.23 DATE: CHK. BY:

DWG. BY: MS NTS SCALE:

TLI015 DWG. #:

SECTION

HFN

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

GLASS LOAD CAPACITY (PSF)				
	AL DIMS.	TYPE 'A'	TYPE 'B'	TYPE 'C'
D.L.O.	D.L.O.	EXT. (+)	EXT. (+)	EXT. (+)
WIDTH	HEIGHT	INT. (-)	INT. (-)	INT. (-)
(in.)	(in.)	` `	` ′	
21.5		65.0	70.0	90.0
27.5		65.0	70.0	90.0
33.5	-	65.0	70.0	90.0
39.5		65.0	70.0	90.0
45.5	73	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
21.5		65.0	70.0	90.0
27.5		65.0	70.0	90.0
33.5		65.0	70.0	90.0
39.5		65.0	70.0	90.0
45.5	79	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
21.5		65.0	70.0	90.0
27.5		65.0	70.0	90.0
33.5		65.0	70.0	90.0
39.5		65.0	70.0	90.0
45.5	85	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
21.5		65.0	70.0	90.0
27.5		65.0	70.0	90.0
33.5		65.0	70.0	90.0
39.5		65.0	70.0	90.0
45.5	91	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	1	-	55.7	90.0
21.5		65.0	70.0	90.0
27.5	1	65.0	70.0	90.0
33.5	1	65.0	70.0	90.0
39.5	1	65.0	70.0	90.0
45.5	94.75	65.0	70.0	90.0
46.75	1	65.0	70.0	90.0
51.5	1	-	63.5	90.0
57.5	1	-	56.9	90.0
58.75	1	-	-	90.0

GLASS LOAD CAPACITY (PSF)				
NOMINA	AL DIMS.	TYPE 'A'	TYPE 'B'	TYPE 'C'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
(in.)	(in.)	` ′		. ,
21.5		65.0	70.0	90.0
27.5		65.0	70.0	90.0
33.5		65.0	70.0	90.0
39.5		65.0	70.0	90.0
45.5	97	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
21.5		65.0	70.0	90.0
27.5		65.0	70.0	90.0
33.5		65.0	70.0	90.0
39.5		65.0	70.0	90.0
45.5	103	_	70.0	90.0
46.75		-	70.0	90.0
51.5		_	63.5	90.0
57.5		-	-	90.0
58.75		-	-	90.0
21.5		65.0	70.0	90.0
27.5		65.0	70.0	90.0
33.5		65.0	70.0	90.0
39.5		65.0	70.0	90.0
45.5	109	-	70.0	90.0
46.75		-	70.0	90.0
51.5		-	-	90.0
57.5		-	-	90.0
58.75		-	-	90.0
21.5		65.0	70.0	90.0
27.5		65.0	70.0	90.0
33.5		65.0	70.0	90.0
39.5		-	70.0	90.0
45.5	115	-	70.0	90.0
46.75		-	70.0	90.0
51.5		-	-	90.0
57.5		-	-	90.0
58.75		-	-	90.0
21.5		65.0	70.0	90.0
27.5		65.0	70.0	90.0
33.5		65.0	70.0	90.0
39.5		-	70.0	90.0
45.5	118.5	_	70.0	90.0
46.75		-	70.0	90.0
51.5		-	-	90.0
57.5		_	-	90.0
58.75		-	-	90.0

GL	GLASS LOAD CAPACITY (PSF)							
NOMINA		TYPE 'A'	TYPE 'B'	TYPE 'C'				
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)				
21.5		65.0	70.0	90.0				
27.5		65.0	70.0	90.0				
33.5		65.0	70.0	90.0				
39.5	121	-	70.0	90.0				
45.5	121	-	70.0	90.0				
46.75		-	-	90.0				
51.5		-	-	90.0				
57.5		-	-	90.0				
21.5		65.0	70.0	90.0				
27.5		65.0	70.0	90.0				
33.5		65.0	70.0	90.0				
39.5	127	-	70.0	90.0				
45.5		-	-	90.0				
46.75		-	-	90.0				
51.5		-	-	90.0				
21.5		65.0	70.0	90.0				
27.5		65.0	70.0	90.0				
33.5		-	70.0	90.0				
39.5	133	-	70.0	90.0				
45.5		-	-	90.0				
46.75		-	-	90.0				
51.5		-	-	90.0				
21.5		65.0	70.0	90.0				
27.5		65.0	70.0	90.0				
33.5	139	-	70.0	90.0				
39.5	133	-	70.0	90.0				
45.5		-	-	90.0				
46.75		-	-	90.0				
21.5		65.0	70.0	90.0				
27.5		65.0	70.0	90.0				
33.5	143.25	-	70.0	90.0				
39.5	173.23	-	-	90.0				
45.5		-	-	90.0				
46.75		_	-	90.0				

NOTES

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

TUBELITE

LEADERS IN ECO-EFFICIENT STOREFRON

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

NES 400T CURTAIN WALL -CAPTURED GLASS (HVHZ) (IMPACT)

GLAZING DETAILS

BUILD 1900

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, LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT



1900 NE MIAMI CT., STE. 2-15 MIAMI, FL 33132 FBPE CERT. OF AUTHORIZATION No. 295

FL46180

DATE: 12.19.23

DWG. BY: CHK. BY:

DWG. BY:

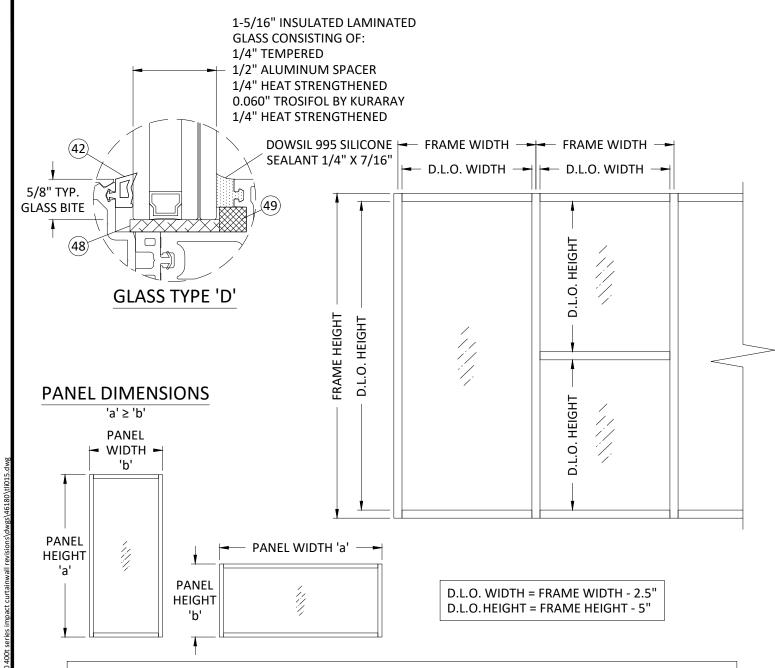
SCALE: NTS
DWG. #: TLIO15

SECTION

6.1

HFN

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



GLAZING NOTES:

- 1. 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.
- 2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
- 3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
- 4. D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN DESIGN PRESSURE TABLES

NOTES:

- 1. CHART VALUES PROVIDE MAXIMUM DESIGN PRESSURES ACCORDING TO ASTM E1300 FOR GIVEN GLASS DIMENSIONS 'a' AND 'b' ($a \ge b$), 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

GLASS	LOAD CA	PACITY (PSF)		
NOMINA	AL DIMS.	TYP	TYPE 'D'		
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)		
21.5	()	78.0	71.0		
27.5		78.0	71.0		
33.5		78.0	71.0		
39.5		78.0	71.0		
45.5	85	78.0	71.0		
46.75		78.0	71.0		
51.5		78.0	71.0		
57.5		78.0	71.0		
58.75		78.0	71.0		
21.5		78.0	71.0		
27.5 33.5		78.0 78.0	71.0 71.0		
39.5		78.0	71.0		
45.5	91	78.0	71.0		
46.75	J1	78.0	71.0		
51.5		78.0	71.0		
57.5		78.0	71.0		
58.75		78.0	71.0		
21.5		78.0	71.0		
27.5		78.0	71.0		
33.5		78.0	71.0		
39.5		78.0	71.0		
45.5	94.75	78.0	71.0		
46.75		78.0	71.0		
51.5		78.0	71.0		
57.5 58.75		78.0 78.0	71.0 71.0		
21.5		78.0	71.0		
27.5		78.0	71.0		
33.5		78.0	71.0		
39.5		78.0	71.0		
45.5	97	78.0	71.0		
46.75		78.0	71.0		
51.5		78.0	71.0		
57.5		78.0	71.0		
58.75		78.0	71.0		
21.5		78.0	71.0		
27.5 33.5		78.0 78.0	71.0 71.0		
39.5		78.0	71.0		
45.5	103	78.0	71.0		
46.75	103	78.0	71.0		
51.5		78.0	71.0		
57.5		78.0	71.0		
58.75		78.0	71.0		
21.5		78.0	71.0		
27.5		78.0	71.0		
33.5		78.0	71.0		
39.5		78.0	71.0		
45.5	109	78.0	71.0		
46.75		78.0	71.0		
51.5		78.0	71.0 71.0		
57.5 58.75		78.0 78.0	71.0		
30.73	<u> </u>	70.0	7 1.0		

GLASS LOAD CAPACITY (PSF)						
NOMINA	AL DIMS.	TYP	E 'D'			
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)			
21.5	, ,	78.0	71.0			
27.5		78.0	71.0			
33.5		78.0	71.0			
39.5		78.0	71.0			
45.5	115	78.0	71.0			
46.75		78.0	71.0			
51.5		78.0	71.0			
57.5		78.0	71.0			
58.75		78.0	71.0			
21.5		78.0	71.0			
27.5		78.0	71.0			
33.5		78.0	71.0			
39.5	118.5	78.0	71.0			
45.5		78.0	71.0			
46.75		78.0	71.0			
51.5		78.0	71.0			
57.5		78.0	71.0			
58.75		78.0	71.0			
21.5		78.0	71.0			
27.5		78.0	71.0			
33.5	121	78.0	71.0			
39.5		78.0	71.0			
45.5		78.0	71.0			
46.75		78.0	71.0			
51.5		78.0	71.0			
57.5		78.0	71.0			
21.5		78.0	71.0			
27.5 33.5		78.0 78.0	71.0 71.0 71.0			
39.5 45.5	127	78.0 78.0	71.0 71.0 71.0			
46.75 51.5		78.0 78.0	71.0 71.0 71.0			
21.5 27.5		78.0 78.0	71.0 71.0 71.0			
33.5 39.5	133	78.0 78.0	71.0 71.0 71.0			
45.5		78.0	71.0			
46.75		78.0	71.0			
51.5		78.0	71.0			
21.5		78.0	71.0			
27.5	420	78.0	71.0			
33.5		78.0	71.0			
39.5	139	78.0	71.0			
45.5		78.0	71.0			
46.75		78.0	71.0			
21.5		78.0	71.0			
27.5	142.25	78.0	71.0			
33.5		78.0	71.0			
39.5	143.25	78.0	71.0			
45.5		78.0	71.0			
46.75		78.0	71.0			

TUBELITE°

LEADERS IN ECO-EFFICIENT STOREFRON

3056 WALKER RIDGE DRIVE N.W. WALKER, MICHIGAN 49544

S 4001 CUR IAIN WALL -SAPTURED GLASS (HVHZ) (IMPACT) GLAZING DETAILS

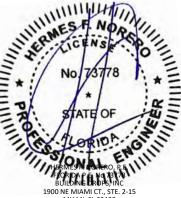
GLAZING DETAILS

BUILDING DROPS, 1900 NE MIAMI CT., STE. 2.

REMARKS BY DATE

MULLION UPDATE DI 2/2024

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE SENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FO A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION O DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT



1900 NE MIAMI CT., STE. 2-15 MIAMI, FL 33132 FBPE CERT. OF AUTHORIZATION No. 29

FL46180

DATE: 12.19.23

DWG. BY: CHK. BY:

MS SCALE:

SCALE: NTS
DWG. #: TLIO15

HFN

SECTION

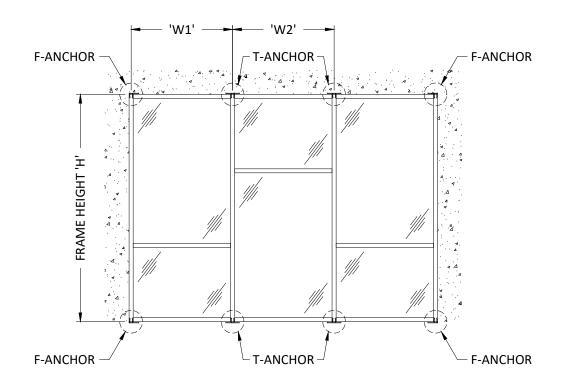
ANCHOR DETAILS

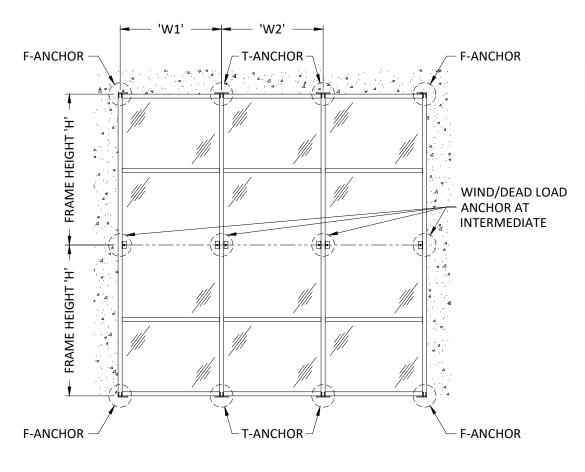
TYPE	DIAMETER	ANCHOR TYPE	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
А	1/4"	ULTRACON+	UNCRACKED CONCRETE, MIN. F'C = 3000 PSI	1-3/4"	2-3/4"
В	3/8"	HILTI KWIK BOLT TZ2	UNCRACKED CONCRETE, MIN. F'C = 3000 PSI	2-1/2"	3-7/8"
С	3/8"	LAG SCREW	2X WOOD, MIN. S.G. = 0.55	1-1/2"	1"
D	3/8"	GRADE 5 SELF-DRILLING/ 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"
Н	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:

- 1. 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).
- 3. 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.
- 4. 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	<u>W1 + W2</u> 2
MULLION SPACING OR BAY WIDTH, 'W', FOR F-ANCHORS AT VERTICAL MULL WITH DOORS	<u>W1 + W2</u> 2







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

ANCHOR DETAILS

D BY:
BUILDING DROPS, I

REMARKS BY DATE MULLION UPDATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FO A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION O DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT



1900 NE MIAMI CT., STE. 2-15 MIAMI, FL 33132 FBPE CERT. OF AUTHORIZATION No. 29578

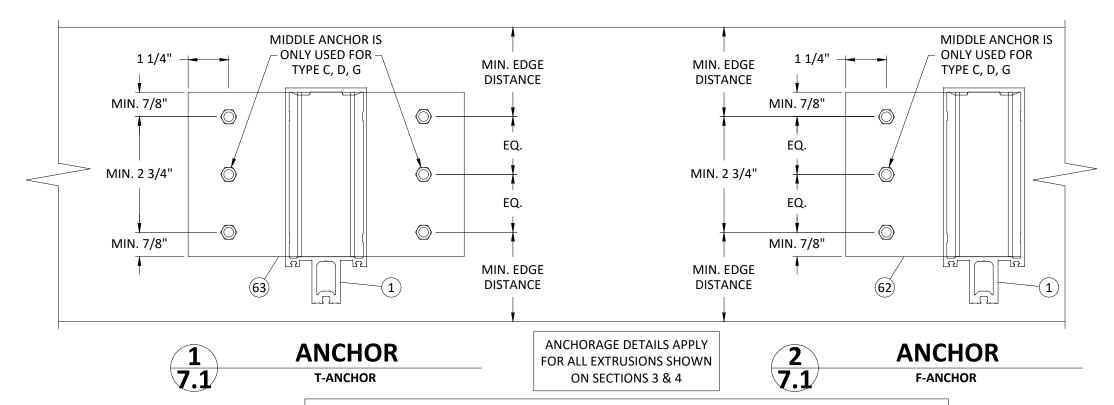
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12.19.23 DATE: CHK. BY: DWG. BY:

MS NTS SCALE:

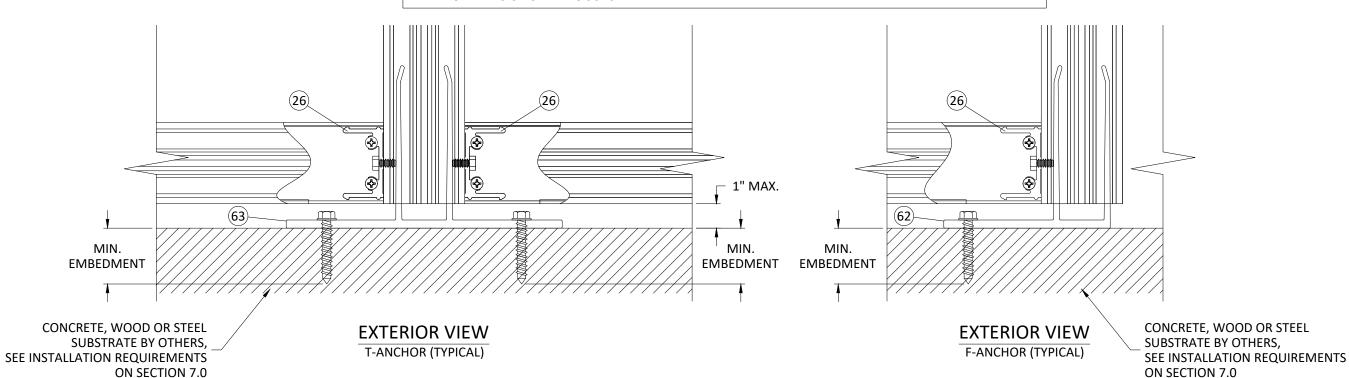
TLI015 DWG. #:

SECTION



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.



TUBELITE*

LEADERS IN ECO-EFFICIENT STOREFROI

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

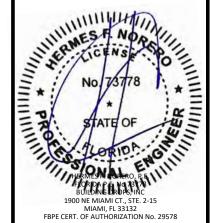
CAPTURED GLASS
(HVHZ) (IMPACT)

ANCHOR DETAILS

AKED BY:
BUILDING DROPS,
1900 NE MIAMI CT., STE. 2-

BY DATE

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FL46180

DATE: 12.19.23
DWG. BY: CHK. BY:

DWG. BY:

MS

SCALE:

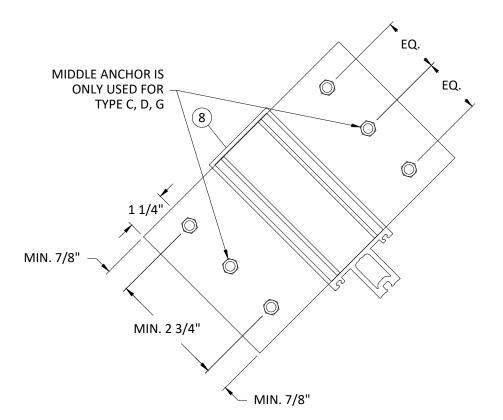
SCALE: NTS
DWG. #: TLIO15

SECTION

7.1

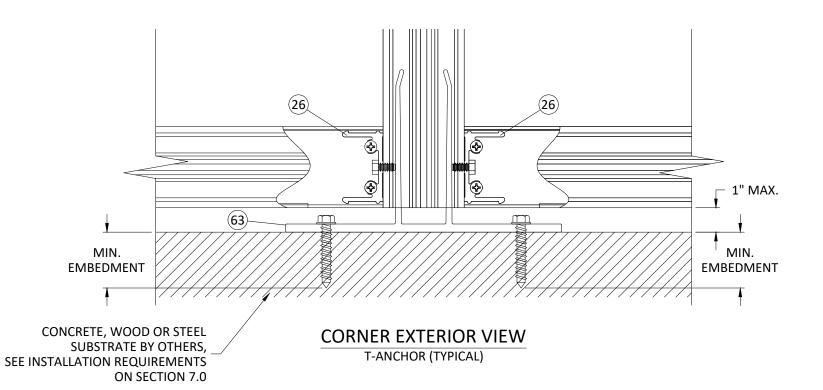
HFN

ANCHOR DETAILS



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

ANCHOR T-ANCHOR

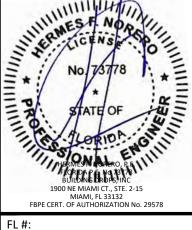


3056 WALKER RIDGE DRIVE N.W. WALKER, MICHIGAN 49544 PH: 800 866 2227 FX: 616 301 0008

ANCHOR DETAILS

BY DATE REMARKS DI 2/2024 MULLION UPDATE

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FL46180

12.19.23 DATE:

DWG. BY:

CHK. BY: NTS SCALE:

DWG. #:

TLI015

SECTION

ANCHOR CAPACITY - F & T ANCHOR

ANCHOR LOAD CAPACITY - PSF									
NION AUNIA	I DINAC	E	EXT. (+	+) & IN		D TVDE			
NOMINA				I					
TRIBUTARY	FRAME		_		_	_	_	_	
WIDTH	HEIGHT	Α	В	С	D	E	F	G	н
'W' (in.)	'H' (in.)								
24		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	90	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
61.25		57.7	90.0 90.0	81.0	90.0	90.0	90.0	90.0 90.0	90.0
24 30		90.0	90.0	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	90.0	90.0
42		78.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42	96	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
61.25		54.0	90.0	75.9	90.0	90.0	90.0	90.0	90.0
24		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		86.5	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42		74.2	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48	102	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
61.25		50.9	90.0	71.5	90.0	90.0	90.0	90.0	90.0
24		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		81.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42	400	70.1	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48	108	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
61.25		48.0	90.0	67.5	90.0	90.0	90.0	90.0	90.0
24		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		77.4	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42	111	66.4	90.0	90.0	90.0	90.0	90.0	90.0	90.0
48	114	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
24		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		88.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		73.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42	120	63.1	90.0	88.6	90.0	90.0	90.0	90.0	90.0
48	120	55.2	90.0	77.5	90.0	90.0	90.0	90.0	90.0
54		49.0	90.0	68.9	90.0	90.0	90.0	90.0	90.0
60		44.1	88.3	62.0	90.0	90.0	90.0	90.0	90.0
61.25		43.2	86.5	60.7	90.0	90.0	90.0	90.0	90.0
24		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		84.1	90.0	90.0	90.0	90.0	90.0	90.0	90.0
36		70.1	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42	126	60.1	90.0	84.4	90.0	90.0	90.0	90.0	90.0
48	120	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
61.25		41.2	82.4	57.8	90.0	90.0	90.0	90.0	90.0

NOMINAI TRIBUTARY WIDTH 'W' (in.) 24 30 36 42 48 54 60 61.25 24 30 36 42 48 54	FRAME HEIGHT 'H' (in.)	90.0 80.3 66.9 57.3 50.2 44.6 40.1 39.3 90.0 76.8 64.0	90.0 90.0 90.0 90.0 90.0 90.0 89.2 80.3 78.6 90.0	90.0 90.0 90.0 90.0 80.5 70.5 62.6 56.4	PO.0 90.0 90.0 90.0 90.0 90.0 90.0	90.0 90.0 90.0 90.0	F 90.0 90.0 90.0	G 90.0 90.0 90.0	H 90.0 90.0
TRIBUTARY WIDTH 'W' (in.) 24 30 36 42 48 54 60 61.25 24 30 36 42 48 54	FRAME HEIGHT 'H' (in.)	90.0 80.3 66.9 57.3 50.2 44.6 40.1 39.3 90.0 76.8 64.0	90.0 90.0 90.0 90.0 90.0 89.2 80.3 78.6 90.0	90.0 90.0 90.0 80.5 70.5 62.6 56.4	90.0 90.0 90.0 90.0 90.0	90.0 90.0 90.0	90.0 90.0 90.0	90.0	90.0
WIDTH 'W' (in.) 24 30 36 42 48 54 60 61.25 24 30 36 42 48 54	HEIGHT 'H' (in.)	90.0 80.3 66.9 57.3 50.2 44.6 40.1 39.3 90.0 76.8 64.0	90.0 90.0 90.0 90.0 90.0 89.2 80.3 78.6 90.0	90.0 90.0 90.0 80.5 70.5 62.6 56.4	90.0 90.0 90.0 90.0	90.0 90.0 90.0	90.0 90.0 90.0	90.0	90.0
'W' (in.) 24 30 36 42 48 54 60 61.25 24 30 36 42 48	'H' (in.)	90.0 80.3 66.9 57.3 50.2 44.6 40.1 39.3 90.0 76.8 64.0	90.0 90.0 90.0 90.0 90.0 89.2 80.3 78.6 90.0	90.0 90.0 90.0 80.5 70.5 62.6 56.4	90.0 90.0 90.0 90.0	90.0 90.0 90.0	90.0 90.0 90.0	90.0	90.0
24 30 36 42 48 54 60 61.25 24 30 36 42 48 54	132	80.3 66.9 57.3 50.2 44.6 40.1 39.3 90.0 76.8 64.0	90.0 90.0 90.0 90.0 89.2 80.3 78.6 90.0	90.0 90.0 80.5 70.5 62.6 56.4	90.0 90.0 90.0	90.0 90.0	90.0 90.0	90.0	90.0
30 36 42 48 54 60 61.25 24 30 36 42 48 54		80.3 66.9 57.3 50.2 44.6 40.1 39.3 90.0 76.8 64.0	90.0 90.0 90.0 90.0 89.2 80.3 78.6 90.0	90.0 90.0 80.5 70.5 62.6 56.4	90.0 90.0 90.0	90.0 90.0	90.0 90.0	90.0	90.0
36 42 48 54 60 61.25 24 30 36 42 48		66.9 57.3 50.2 44.6 40.1 39.3 90.0 76.8 64.0	90.0 90.0 90.0 89.2 80.3 78.6 90.0	90.0 80.5 70.5 62.6 56.4	90.0 90.0	90.0	90.0		
42 48 54 60 61.25 24 30 36 42 48		57.3 50.2 44.6 40.1 39.3 90.0 76.8 64.0	90.0 90.0 89.2 80.3 78.6 90.0	80.5 70.5 62.6 56.4	90.0			9(111	00.0
48 54 60 61.25 24 30 36 42 48 54		50.2 44.6 40.1 39.3 90.0 76.8 64.0	90.0 89.2 80.3 78.6 90.0	70.5 62.6 56.4		9010	000		90.0
54 60 61.25 24 30 36 42 48 54	138	44.6 40.1 39.3 90.0 76.8 64.0	89.2 80.3 78.6 90.0	62.6 56.4		90.0	90.0 90.0	90.0 90.0	90.0
60 61.25 24 30 36 42 48 54	138	40.1 39.3 90.0 76.8 64.0	80.3 78.6 90.0	56.4	90.0	90.0	90.0	90.0	90.0
61.25 24 30 36 42 48 54	138	39.3 90.0 76.8 64.0	78.6 90.0	55.1	90.0	90.0	90.0	88.4	90.0
24 30 36 42 48 54	138	90.0 76.8 64.0	90.0	55.2	90.0	90.0	90.0	86.6	90.0
30 36 42 48 54	138	76.8 64.0		90.0	90.0	90.0	90.0	90.0	90.0
42 48 54	138		90.0	90.0	90.0	90.0	90.0	90.0	90.0
48 54	138		90.0	89.9	90.0	90.0	90.0	90.0	90.0
54	130	54.8	90.0	77.0	90.0	90.0	90.0	90.0	90.0
		48.0	90.0	67.4	90.0	90.0	90.0	90.0	90.0
		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
61.25		37.6	75.2	52.8	87.2	90.0	90.0	82.8	90.0
24		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30 36		73.6 61.3	90.0 90.0	90.0 86.1	90.0	90.0	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	144	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
24		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	148.25	51.0	90.0	71.7	90.0	90.0	90.0	90.0	90.0
48	110.23	44.7	89.3	62.7	90.0	90.0	90.0	90.0	90.0
54		39.7	79.4	55.8	90.0	90.0	90.0	87.4	90.0
60 61.25		35.7 35.0	71.5 70.0	50.2 49.2	82.9 81.2	90.0 90.0	90.0 90.0	78.7 77.1	90.0
24		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	455	56.6	90.0	79.5	90.0	90.0	90.0	90.0	90.0
42	156	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
24		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	162	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 54		40.9	81.7	57.4	90.0	90.0	90.0	90.0	90.0
24		36.3 78.8	72.7 90.0	51.0 90.0	84.3 90.0	90.0 90.0	90.0 90.0	80.0 90.0	90.0
30		63.1	90.0	88.6	90.0	90.0	90.0	90.0	90.0
36	168	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
24		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	174	50.7	90.0	71.3	90.0	90.0	90.0	90.0	90.0
42	1/4	43.5	87.0	61.1	90.0	90.0	90.0	90.0	90.0
48 51.25		38.1 35.6	76.1 71.3	53.4 50.1	88.3 82.7	90.0	90.0 90.0	83.8 78.5	90.0

NOTE:

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

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

ANCHOR DETAILS

REMARKS

PREPARED BY:

BUILDING DROPS, IN

1900 NE MIAMI CT., STE. 2-15

MANNI, FI. 33132

PH: (954)744,4738

FAX: (954)744,4738 BY DATE MULLION UPDATE

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



1900 NE MIAMI CT., STE. 2-15 MIAMI, FL 33132 FBPE CERT. OF AUTHORIZATION No. 29578

FL46180

DATE: 12.19.23

DWG. BY: SCALE:

CHK. BY: NTS

DWG. #:

SECTION

TLI015

ANCHOR CAPACITY - F ANCHOR AT DOOR JAMB TO SIDELITE

	Α	NCHO				/ - PSF	1		
	EXT. (+) & INT (-) NOMINAL DIMS. ANCHOR TYPE								
		ANCHOR TYPE							
TRIBUTARY WIDTH 'W' (in.)	FRAME HEIGHT 'H' (in.)	A	В	С	D	E	F	G	н
24	п (ш.)	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	00	42.0	84.1	59.0	90.0	90.0	90.0	90.0	90.0
48	90	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
61.25		28.8	57.7	40.5	66.9	74.1	74.1	63.5	90.0
24		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 42		46.0 39.4	90.0 78.8	64.6 55.4	90.0 90.0	90.0 90.0	90.0 90.0	90.0 86.8	90.0
42	96	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
61.25		27.0	54.0	38.0	62.7	69.5	69.5	59.5	90.0
24		64.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0
30		51.9	90.0	72.9	90.0	90.0	90.0	90.0	90.0
36		43.3	86.5	60.8	90.0	90.0	90.0	90.0	90.0
42	102	37.1	74.2	52.1	86.1	90.0	90.0	81.7	90.0
48	102	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
61.25		25.4	50.9	35.7	59.0	65.4	65.4	56.0	90.0
24		61.3	90.0	86.1	90.0	90.0	90.0	90.0	90.0
30		49.0	90.0	68.9	90.0	90.0	90.0	90.0	90.0
36		40.9	81.7	57.4	90.0	90.0	90.0	90.0	90.0
42	108	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 24.5	54.5 49.0	38.3 34.4	63.2	70.1 63.1	70.1 63.1	60.0	90.0
60 61.25		24.5	48.0	33.7	56.9 55.7	61.8	61.8	54.0 52.9	90.0
24		58.1	90.0	81.6	90.0	90.0	90.0	90.0	90.0
30		46.5	90.0	65.3	90.0	90.0	90.0	90.0	90.0
36		38.7	77.4	54.4	89.8	90.0	90.0	85.3	90.0
42		33.2	66.4	46.6	77.0	85.3	85.3	73.1	90.0
48	114	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
24		55.2	90.0	77.5	90.0	90.0	90.0	90.0	90.0
30		44.1	88.3	62.0	90.0	90.0	90.0	90.0	90.0
36		36.8	73.6	51.7	85.4	90.0	90.0	81.0	90.0
42	120	31.5	63.1	44.3	73.2	81.1	81.1	69.4	90.0
48	120	27.6	55.2	38.8	64.0	70.9	70.9	60.8	90.0
54		24.5	49.0	34.4	56.9	63.1	63.1	54.0	90.0
60 61.25		22.1 21.6	44.1 43.2	31.0 30.4	51.2 50.2	56.8 55.6	56.8 55.6	48.6 47.6	90.0
24		52.5	90.0	73.8	90.0	90.0	90.0	90.0	90.0
30		42.0	84.1	59.0	90.0	90.0	90.0	90.0	90.0
36	40.5	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	126	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

ANCHOR LOAD CAPACITY - PSF									
NOMINAL DIMS. EXT. (+) & INT (-) ANCHOR TYPE									
		ANCHOR TYPE							
TRIBUTARY	FRAME								
WIDTH	HEIGHT	A	В	С	D	E	F	G	Н
'W' (in.)	'H' (in.)								
24		50.2	90.0	70.5	90.0	90.0	90.0	90.0	90.0
30		40.1	80.3	56.4	90.0	90.0	90.0	88.4	90.0
36		33.4	66.9	47.0	77.6	86.0	86.0	73.7	90.0
42 48	132	28.7	57.3	40.3 35.2	66.5 58.2	73.7	73.7 64.5	63.1 55.2	90.0 90.0
54		25.1 22.3	50.2 44.6	31.3	51.7	64.5 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
24		48.0	90.0	67.4	90.0	90.0	90.0	90.0	90.0
30		38.4	76.8	53.9	89.1	90.0	90.0	84.5	90.0
36		32.0	64.0	44.9	74.2	82.2	82.2	70.4	90.0
42	138	27.4	54.8	38.5	63.6	70.5	70.5	60.4	90.0
48	130	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 90.0	26.4 64.6	43.6 90.0	48.3 90.0	48.3 90.0	41.4 90.0	90.0 90.0
24 30		46.0 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	144	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
24		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	148.25	25.5	51.0	35.8	59.2	65.6	65.6	56.2	90.0
48 54		22.3 19.8	44.7 39.7	31.4 27.9	51.8 46.1	57.4 51.0	57.4 51.0	49.2 43.7	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	45.9	45.0	38.5	90.0
24		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	150	28.3	56.6	39.7	65.7	72.8	72.8	62.3	90.0
42	156	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
24		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	162	27.2	54.5	38.3	63.2	70.1	70.1	60.0	90.0
42 48		23.4	46.7 40.9	32.8 28.7	54.2 47.4	60.1 52.5	60.1 52.5	51.4 45.0	90.0
54		18.2	36.3	25.5	47.4	46.7	46.7	40.0	90.0
24		39.4	78.8	55.4	90.0	90.0	90.0	86.8	90.0
30	168	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
24		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	174	25.4	50.7	35.6	58.9	65.2	65.2	55.9	90.0
42 48	•	21.7	43.5	30.5	50.5	55.9	55.9	47.9	90.0
4X		19.0 17.8	38.1 35.6	26.7 25.0	44.1 41.3	48.9 45.8	48.9	41.9 39.2	90.0

NOTE:

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

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

ANCHOR DETAILS

D BY:

BUILDING DROPS, II

1900 NE MIAMI CT., STE. 2-15

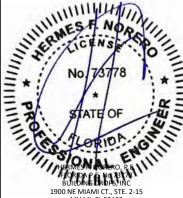
MIAMI, EL 33132

PH: (954)399-8478

FAX: (954)399-8478

REMARKS BY DATE MULLION UPDATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FO A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION O DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT



FL46180

12.19.23 DATE: DWG. BY: CHK. BY:

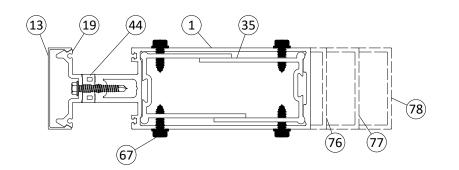
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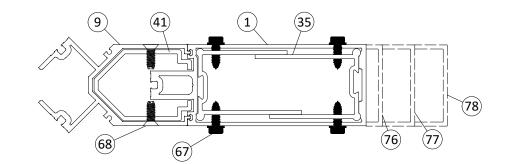
NTS **TLI015**

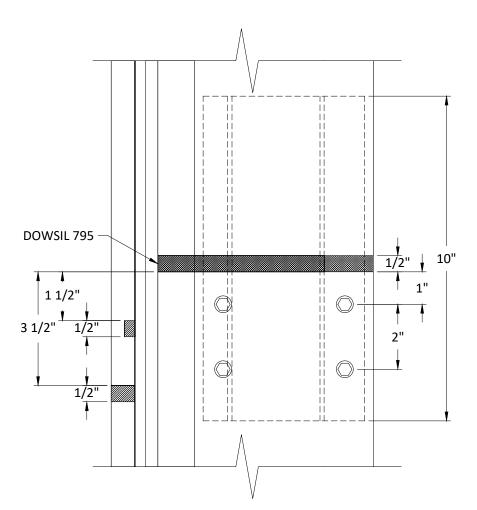
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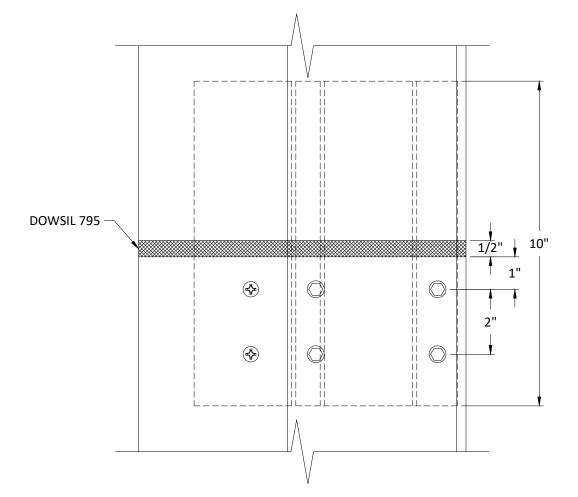
DWG. #: SECTION

MULLION SPLICE











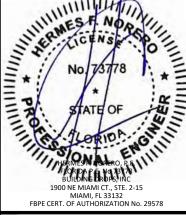
MULLION SPLICE 2 8.0 CORNER

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

> PREPARED BY:
> BUILDING DROPS, INC.
> 1900 NE MIAMI, FIT. 2-15
> MIAMI, FL 33132
> PH: (954)399-8478 WIND/DEAD LOAD ANCHOR DETAILS

REMARKS BY DATE DI 2/2024 MULLION UPDATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION
O DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, I
LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE
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FL46180

12.19.23 DATE:

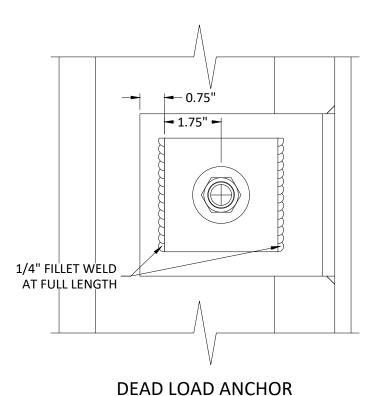
DWG. BY: CHK. BY: NTS SCALE:

TLI015 DWG. #:

STEEL SUBSTRATE BY OTHERS, 1/4" FILLET WELD FULL LENGTH MIN. 3/8" THICK. A36 STEEL AT TOP AND BOTTOM 3.5" (75)

VERTICAL SECTION WIND/DEAD LOAD ANCHOR

AT JAMB



AT STEEL SUBSTRATE

WIND /DEAD LOAD ANCHOR NOTES:

- 1. WIND/DEAD LOAD ANCHORS HAVE BEEN **EVALUATED TO THE FOLLOWING:**
 - WL = +/- 4,166 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - WL = +/- 2,527 LBS (UNFACTORED) @ SINGLE **ANGLE SUPPORTS**
 - MAX. SPAN = 14'-6"
 - MAX. TRIB WIDTH = 60"

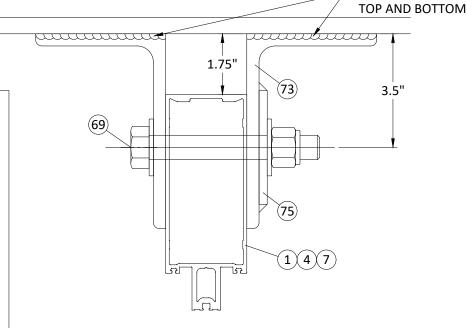
DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:

- DL = +/- 1,116 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
- DEAD LOAD SHALL BE DETERMINED BY ENGINEER OF RECORD.

NOTES:

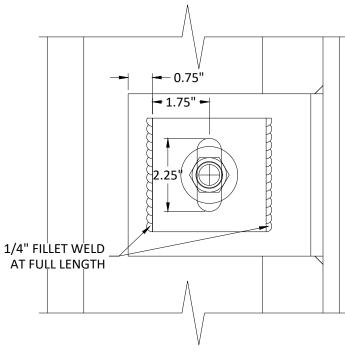
ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

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



VERTICAL SECTION

WIND/DEAD LOAD ANCHOR AT INTERMEDIATE



WIND LOAD ANCHOR AT STEEL SUBSTRATE

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

WIND/DEAD LOAD ANCHOR DETAILS

1/4" FILLET WELD

FULL LENGTH AT

UILDING DROPS,

REMARKS BY DATE MULLION UPDATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE SENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FO A SPECIFIC SITE, IF SITE CONDITIONS CAUSE INSTALLATION D DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE



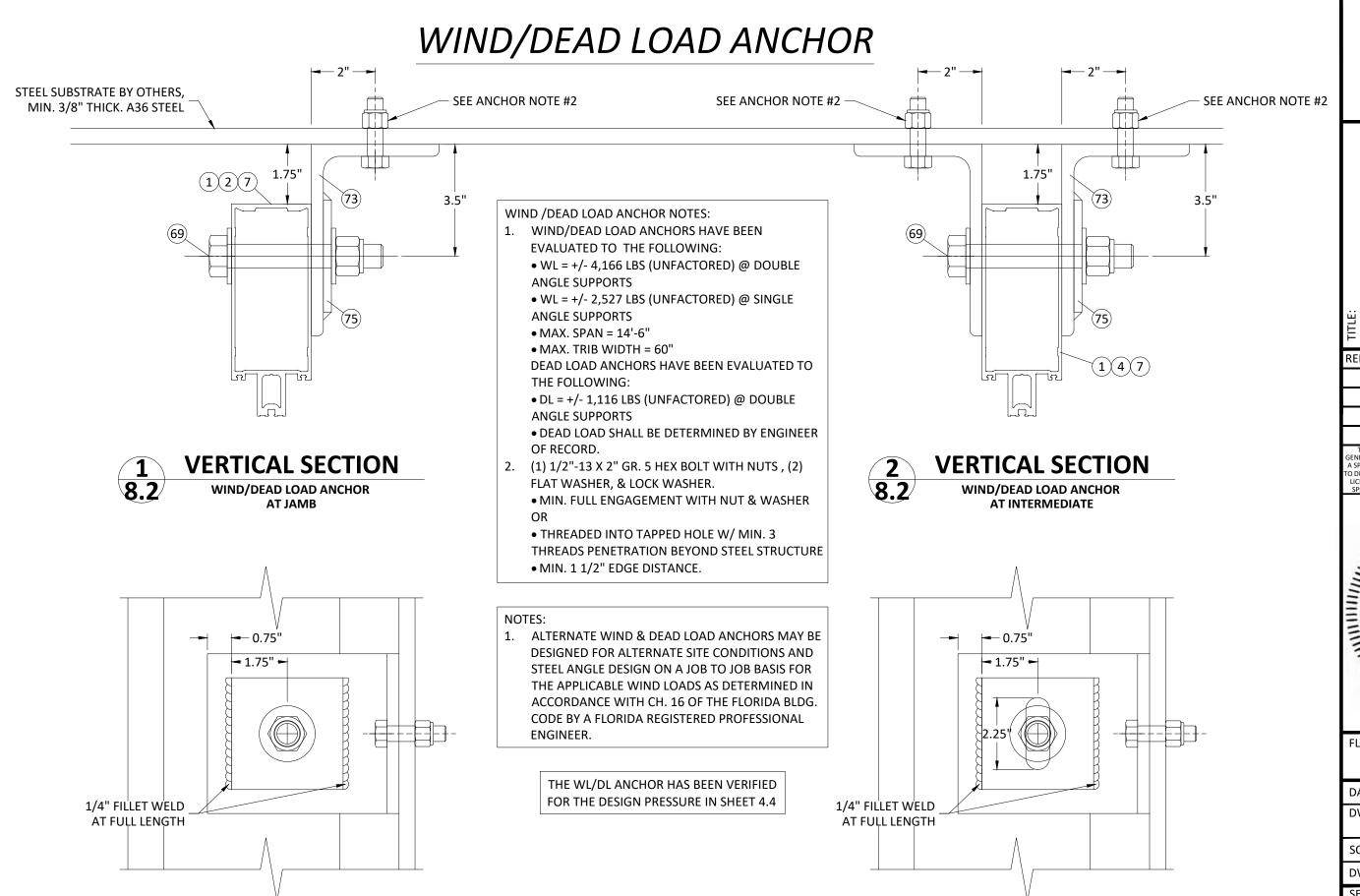
1900 NE MIAMI CT., STE. 2-15 MIAMI, FL 33132 FBPE CERT. OF AUTHORIZATION No. 29578

FL46180

12.19.23 DATE: DWG. BY: CHK. BY:

HFN MS NTS SCALE:

TLI015 DWG. #:



DEAD LOAD ANCHOR

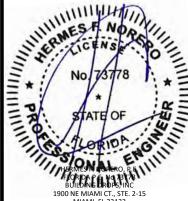
AT STEEL SUBSTRATE

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

WIND/DEAD LOAD ANCHOR

REMARKS BY DATE MULLION UPDATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE ENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FO D DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE



1900 NE MIAMI CT., STE. 2-15 MIAMI, FL 33132 FBPE CERT. OF AUTHORIZATION No. 29578

FL46180

12.19.23 DATE: CHK. BY:

DWG. BY: MS SCALE:

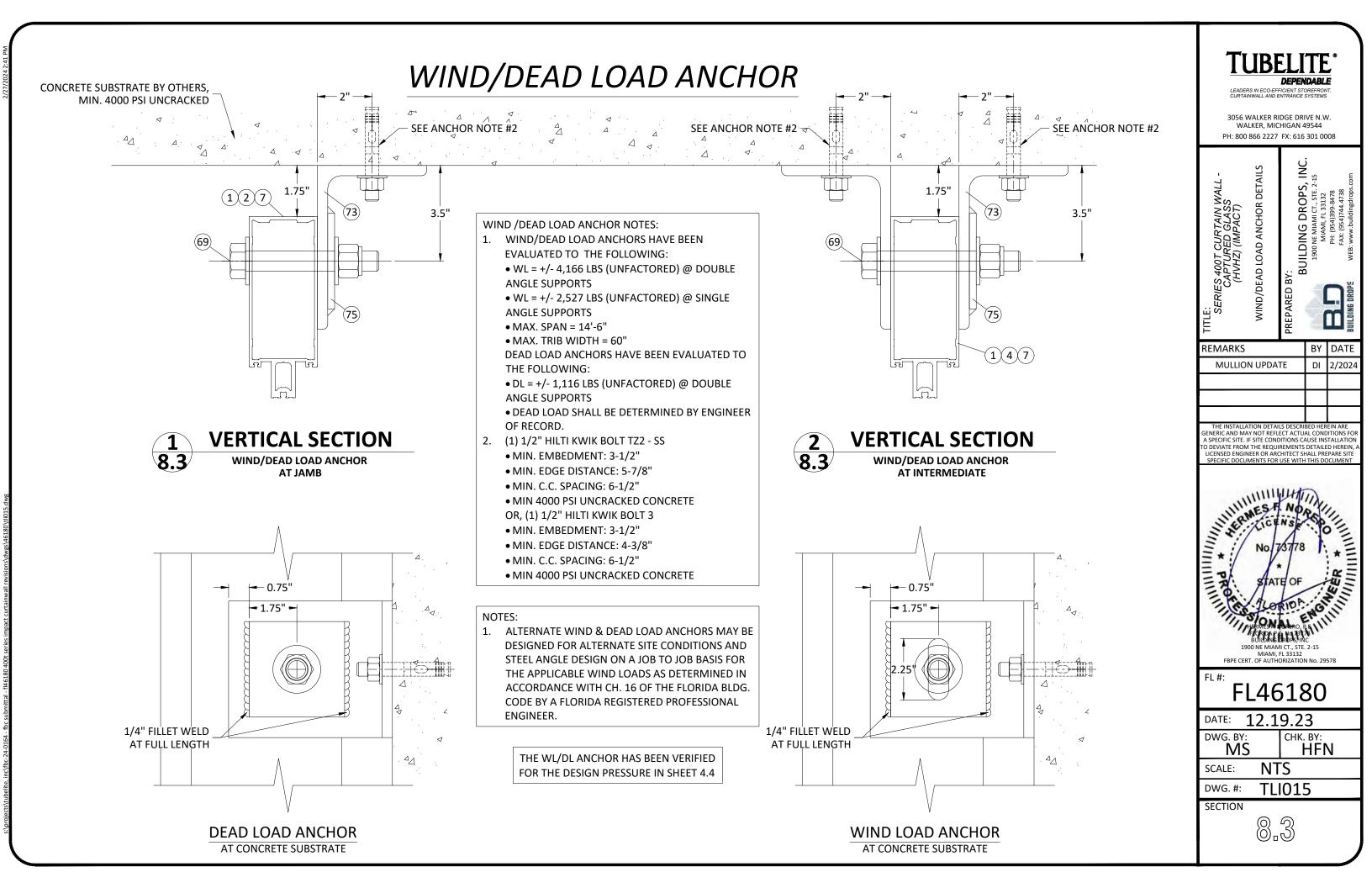
HFN NTS

DWG. #:

WIND LOAD ANCHOR

AT STEEL SUBSTRATE

TLI015 SECTION



WIND/DEAD LOAD ANCHOR

WIND /DEAD LOAD ANCHOR NOTES:

- 1. WIND/DEAD LOAD ANCHORS HAVE BEEN **EVALUATED TO THE FOLLOWING:**
 - WL = +/- 4,335 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - MAX. SPAN = 14'-6"
 - MAX. TRIB WIDTH = 60" DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - DL = +/- 1,161 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - DEAD LOAD SHALL BE DETERMINED BY ENGINEER OF RECORD.

AT STEEL SUBSTRATE

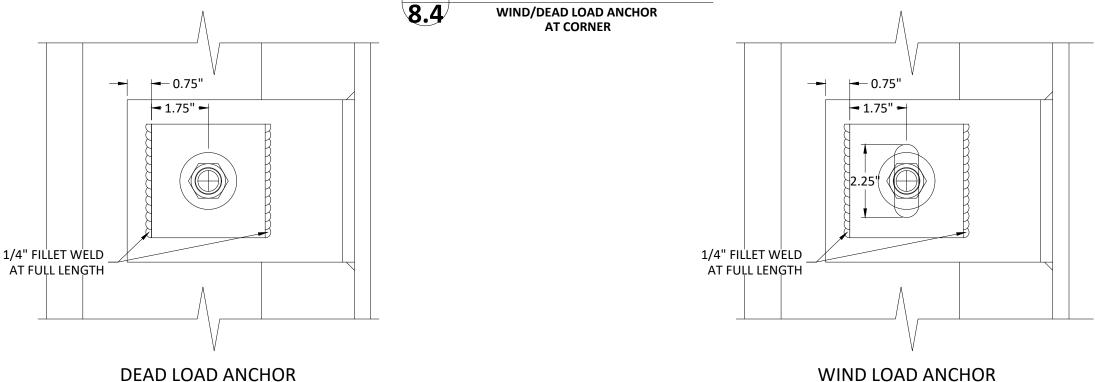
1. ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

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

STEEL SUBSTRATE BY OTHERS, MIN. 3/8" THICK. A36 STEEL 1/4" FILLET WELD FULL LENGTH AT TOP AND BOTTOM (8)

VERTICAL SECTION

WIND/DEAD LOAD ANCHOR

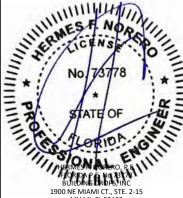


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WIND/DEAD LOAD ANCHOR DETAILS

REMARKS BY DATE MULLION UPDATE

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12.19.23 DATE:

DWG. BY: CHK. BY: MS

HFN NTS SCALE:

TLI015 DWG. #:

SECTION

DEAD LOAD ANCHOR AT STEEL SUBSTRATE

WIND/DEAD LOAD ANCHOR

WIND /DEAD LOAD ANCHOR NOTES:

- 1. WIND/DEAD LOAD ANCHORS HAVE BEEN **EVALUATED TO THE FOLLOWING:**
 - WL = +/- 4,335 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - MAX. SPAN = 14'-6"
 - MAX. TRIB WIDTH = 60"

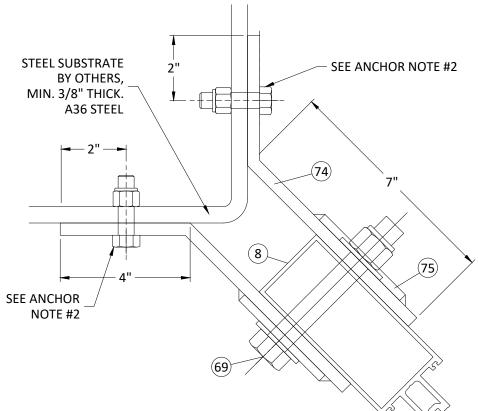
DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:

- DL = +/- 1,161 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
- DEAD LOAD SHALL BE DETERMINED BY ENGINEER OF RECORD.
- 2. (1) 1/2"-13 X 2" GR. 5 HEX BOLT WITH NUTS, (2) FLAT WASHER, & LOCK WASHER.
 - MIN. FULL ENGAGEMENT WITH NUT & WASHER
 - THREADED INTO TAPPED HOLE W/ MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE

DEAD LOAD ANCHOR

AT STEEL SUBSTRATE

• MIN. 1 1/2" EDGE DISTANCE.



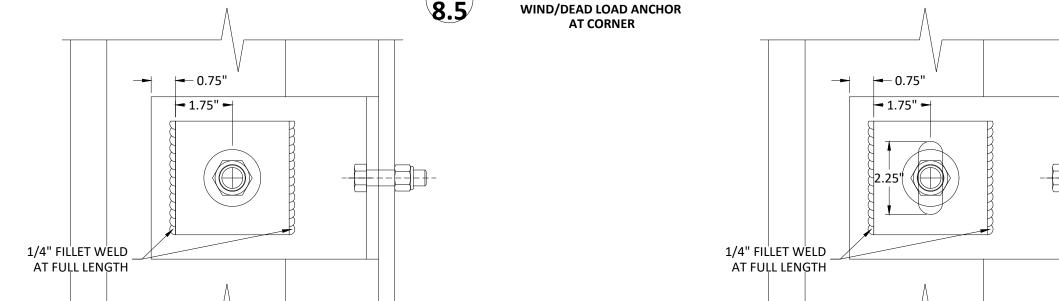
VERTICAL SECTION

WIND LOAD ANCHOR

AT STEEL SUBSTRATE

1. 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**



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

WIND/DEAD LOAD ANCHOR DETAILS

REMARKS BY DATE MULLION UPDATE

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12.19.23 DATE:

DWG. BY: CHK. BY: MS

HFN NTS SCALE:

TLI015 DWG. #:

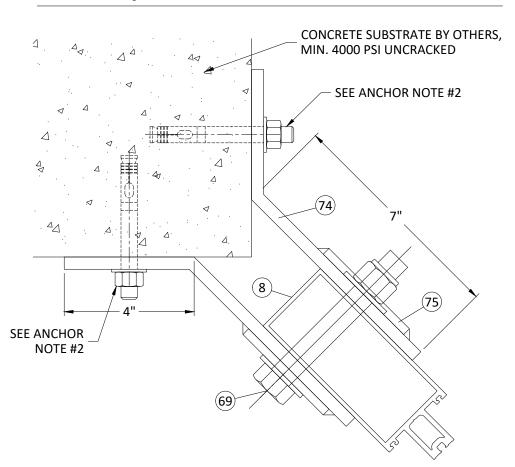
WIND/DEAD LOAD ANCHOR

WIND /DEAD LOAD ANCHOR NOTES:

- 1. WIND/DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - WL = +/- 4,335 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - MAX. SPAN = 14'-6"
 - MAX. TRIB WIDTH = 60"

DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:

- DL = +/- 1,161 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
- DEAD LOAD SHALL BE DETERMINED BY ENGINEER OF RECORD.
- 2. (1) 1/2" HILTI KWIK BOLT TZ2 SS
 - MIN. EMBEDMENT: 2-3/4"
 - MIN. EDGE DISTANCE: 6-3/4"
 - MIN. C.C. SPACING: 6-1/2"
 - MIN 4000 PSI UNCRACKED CONCRETE
 - OR, (1) 1/2" HILTI KWIK BOLT 3
 - MIN. EMBEDMENT: 3-1/2"
 - MIN. EDGE DISTANCE: 4-1/2"
 - MIN. C.C. SPACING: 6-1/2"
 - MIN 4000 PSI UNCRACKED CONCRETE



VERTICAL SECTION

IOTES:

1. 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

WIND/DEAD LOAD ANCHOR AT CORNER -- 0.75" -- 1.75" --

1/4" FILLET WELD
AT FULL LENGTH

DEAD LOAD ANCHOR

AT CONCRETE SUBSTRATE

1/4" FILLET WELD
AT FULL LENGTH

WIND LOAD ANCHOR
AT CONCRETE SUBSTRATE

TUBELITE

LEADERS IN ECO-EFFICIENT STOREFRO

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

CAPTURED GLASS (HVHZ) (IMPACT) WIND/DEAD LOAD ANCHOR DETAILS

EPARED BY: BUILDING DRO

REMARKS BY DATE

MULLION UPDATE DI 2/2024

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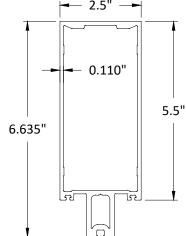
DATE: 12.19.23

DWG. BY: CHK. BY: HFN

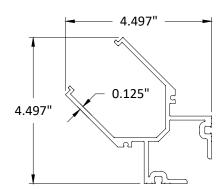
SCALE: NTS
DWG. #: TLIO15

SECTION

— 2.5" →



EXTRUSION, TUBE ALUMINUM 6063-T6





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

− 2.5" −

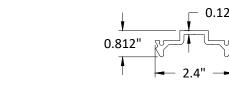
0.125" —

TUBE, OPEN-BACK

ALUMINUM 6063-T6

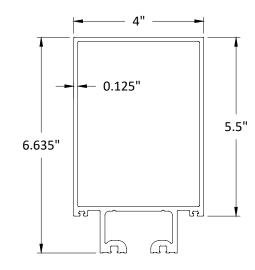
6.635"

5.5"

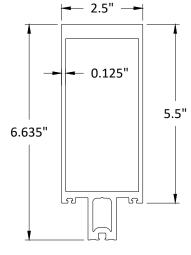


OFFSET FILLER-PRESSURE PLATE ALUMINUM 6063-T5

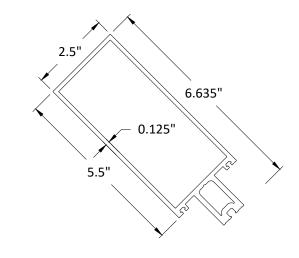
COMPONENTS



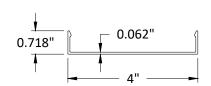
TUBE, 4" INTMD. ALUMINUM 6063-T6



TUBE, HD TUBULAR ALUMINUM 6063-T6



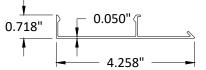
TUBE, CORNER ALUMINUM 6063-T6



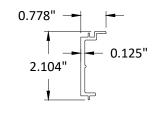
COVER, FACE, 4" X 3/4" ALUMINUM 6063-T5

0.125"

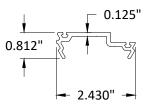
0.718"



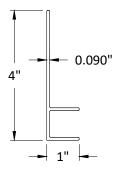
COVER, FACE, OUTSIDE CORNER ALUMINUM 6063-T5



POCKET FILLER PVC



OFFSET PRESSURE PLATE ALUMINUM 6063-T5



F-ANCHOR CLIP ALUMINUM 6063-T5

DEPENDABLE

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

COMPONENTS & BILL OF MATERIALS

REMARKS

PREPARED BY:
BUILDING DROPS, IN
1900 NE MIAMI, FI 33132
MIAMI, FI 33132

BY DATE DI 2/2024 MULLION UPDATE

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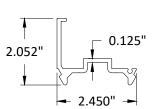
FL #: FL46180

12.19.23 DATE: DWG. BY:

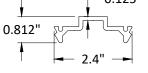
CHK. BY: HFN MS NTS SCALE:

DWG. #: **TLI015**

SECTION



OUTSIDE CORNER ADAPTOR ALUMINUM 6063-T5

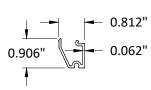


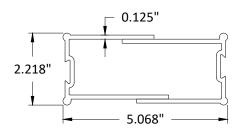
OFFSET PRESSURE PLATE
ALUMINUM 6063-T5

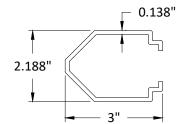
PRESSURE PLATE, 4" ALUMINUM 6063-T5

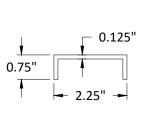
3.888"

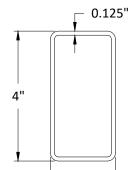
COMPONENTS





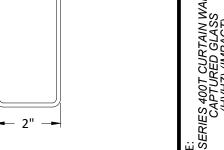




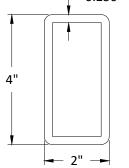


(55) REIN. 2"X4"X11 GA. (120" LONG)

- REDUCER ALUMINUM 6063-T5
- MULLION SPLICE, INTMD. ALUMINUM 6063-T5
- MULLION SPLICE, ITEM #9
 ALUMINUM 6063-T5
- ALUMINUM 6063-T5

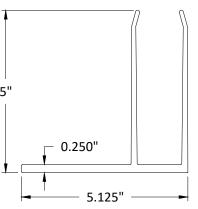


0.250"

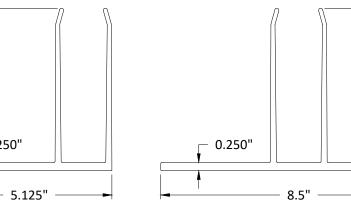


0.313" 4" **-** 2" -►

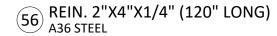
1.584" **→** 0.184"

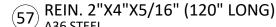


62 ANCHOR, 'F' CUT ALUMINUM 6063-T6



ANCHOR, 'T' CUT ALUMINUM 6063-T6





- REIN. C4X5.4 (96" LONG)
- A36 STEEL
- REIN. C4X5.4 (24" LONG) A36 STEEL

DEPENDABLE

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

COMPONENTS & BILL OF MATERIALS

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

REMARKS BY DATE DI 2/2024 MULLION UPDATE

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12.19.23 DATE: CHK. BY:

DWG. BY: MS SCALE:

HFN NTS

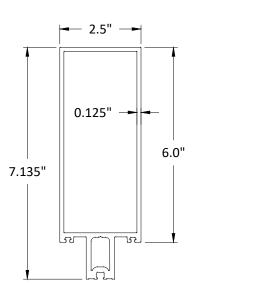
TLI015 DWG. #:

SECTION

67 REIN. 2"X4"X5/16" (120" LONG) 8 REIN. C4X5.4 (120" LONG) A36 STEEL

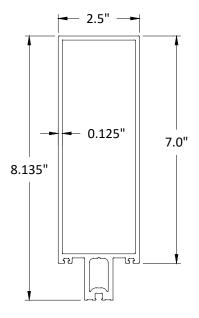
- REIN. C4X5.4 (198" LONG) A36 STEEL

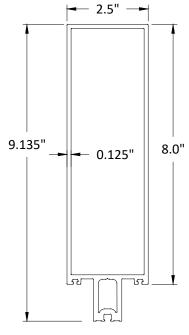
COMPONENTS

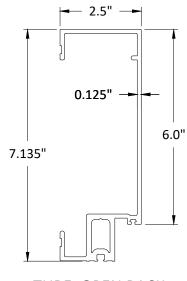


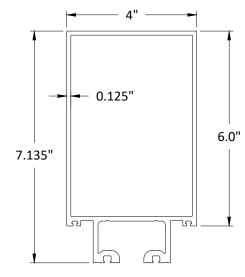
76 EXTRUSION, TUBE ALUMINUM 6063-T6

81 TUBE, 4" INTMD. ALUMINUM 6063-T6







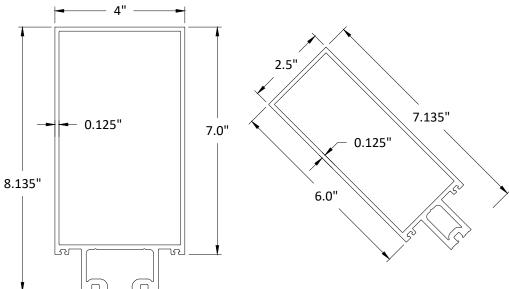


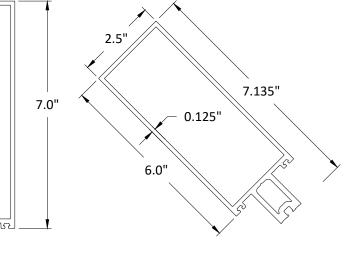
EXTRUSION, TUBE ALUMINUM 6063-T6

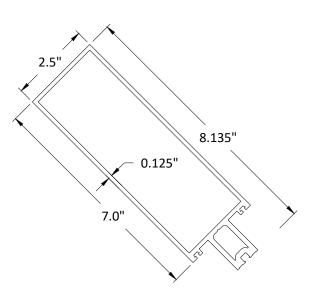
78 EXTRUSION, TUBE ALUMINUM 6063-T6

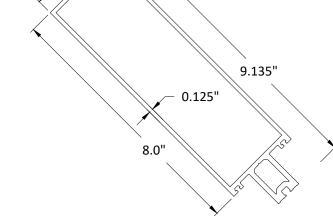
79 TUBE, OPEN BACK ALUMINUM 6063-T6

80 TUBE, 4" INTMD. ALUMINUM 6063-T6









82 TUBE, CORNER ALUMINUM 6063-T6

TUBE, CORNER ALUMINUM 6063-T6

TUBE, CORNER ALUMINUM 6063-T6

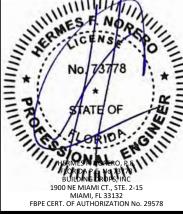
3056 WALKER RIDGE DRIVE N.W. WALKER, MICHIGAN 49544 PH: 800 866 2227 FX: 616 301 0008

COMPONENTS & BILL OF MATERIALS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI, FIT. 2-15
MIAMI, FL 33132
PH: (954)399-8478

BY DATE REMARKS MULLION UPDATE DI 2/2024

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FL46180

12.19.23 DATE:

DWG. BY: MS SCALE:

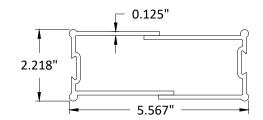
CHK. BY: NTS

DWG. #: **TLI015**

SECTION

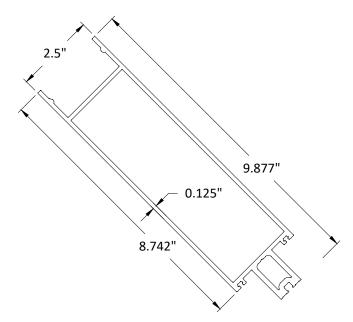
8.464' 0.125" 7.329"

TUBE, CORNER, ANGLED BACK ALUMINUM 6063-T6

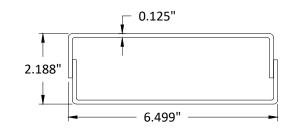


MULLION SPLICE, INTMD. ALUMINUM 6063-T5

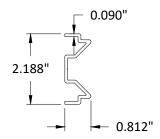
COMPONENTS



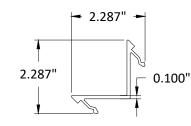
TUBE, CORNER, ANGLED BACK ALUMINUM 6063-T6



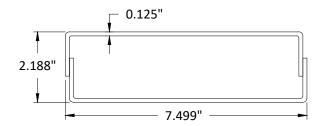
MULLION SPLICE, INTMD. ALUMINUM 6063-T5



MULLION SPLICE, INTMD. ALUMINUM 6063-T5



CORNER, ANGLED BACK COVER ALUMINUM 6063-T6



90 MULLION SPLICE, INTMD. ALUMINUM 6063-T5



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

COMPONENTS & BILL OF MATERIALS

REMARKS

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1900 NE MIAMI CT., STE. 2-15
MIAMI, FL 33132
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CHK. BY: NTS

DWG. #: **TLI015**

SECTION

BILL OF MATERIALS

	BILL OF MATERIAL							
ITEM	PART NO.	DESCRIPTION	MATERIAL					
1	E55TBC223	EXTRUSION, TUBE, NON-THERMAL	ALUMINUM - 6063-T6					
2	E55TBC245	EXTRUSION, TUBE, OPEN-BACK	ALUMINUM - 6063-T6					
4	E55TBC121	EXTRUSION, TUBE, 4" INTERMEDIATE	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					
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					
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	ALUMINUM - 6063-T5					
		ADAPTOR, CAPTURED						
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					

		BILL OF MATERIAL	
ITEM	PART NO.	DESCRIPTION	MATERIAL
60	-	A36 STEEL, CHANNEL, C4 X 5.4, 96" LONG	P-PART - STEEL
61	-	A36 STEEL, CHANNEL, C4 X 5.4, 24" LONG	P-PART - STEEL
62	PTB20	ANCHOR, 'F' CUT & PRE-DRILLED	ALUMINUM - 6063-T6
63	PTB21	ANCHOR, 'T' CUT & PRE-DRILLED	ALUMINUM - 6063-T6
65	S425	SCREW, 1/4"-20 X 3", HEX HD TYPE F	P-PART - FASTENER
67	S369	SCREW, 1/4"-20 X 3/4", HEX HD TYPE F	P-PART - FASTENER
68	S6505	SCREW, 1/4"-20 X 3/4", FLAT HEAD, CLASS 2A	P-PART - FASTENER
69	-	BOLT, 3/4"-10 X 5-1/4" HEX HD, CLASS 2A WITH NUT & (2) WASHERS	P-PART - FASTENER
73	-	WL/DL ANGLE, 4"X6" OR 4"X7"	A36 STEEL
74	-	WL/DL CORNER ANGLE, 4"X6" OR 4"X7"	A36 STEEL
75	-	PLATE, 3-1/2"X3-1/2"	A36 STEEL
76	E6TBC02	EXTRUSIONS, TUBE, NON-THERMAL	ALUMINUM - 6063-T6
77	E7TBC02	EXTRUSIONS, TUBE, NON-THERMAL	ALUMINUM - 6063-T6
78	E8TBC02	EXTRUSIONS, TUBE, NON-THERMAL	ALUMINUM - 6063-T6
79	E6TBC245	EXTRUSION, TUBE, OPEN-BACK	ALUMINUM - 6063-T6
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



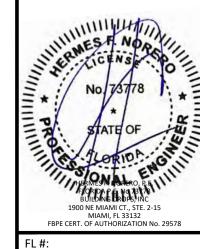
3056 WALKER RIDGE DRIVE N.W. WALKER, MICHIGAN 49544 PH: 800 866 2227 FX: 616 301 0008

COMPONENTS & BILL OF MATERIALS

BUILDING DROPS, INC.
BUILDING DROPS, INC.
1900 NE MIANNI CT., STE. 2-15
MANNI, FL 33132
PH: (954)399-8478
FAX: (954)344.4738
FAX: (954)744.4738

REMARKS BY DATE MULLION UPDATE

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TLI015 DWG. #:

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
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

			Ml	JLLION/S	HEAR BLOC	CK/ACCE	SSORY TAE	BLE			
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	-	-	-	-	-	-
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

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

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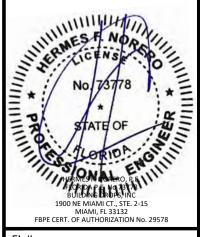
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