QUAKER WINDOWS AND DOORS

SERIES I200 MULLIONS

(WZ3)(IMPACT)

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE 1X BUCKING, SHEATHING, & WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
5. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
   - 5.1. FASTENERS USED WITHIN 3000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).
   - 5.2. CONNECTORS AND METAL PLATES USED WITHIN 3000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).
6. 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.
7. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
   A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
   B. STEEL - MINIMUM WALL THICKNESS OF 63 MILS (16 GA.), A36 STEEL MIN.
   C. ALUMINUM - 1/8" MINIMUM THICKNESS (6063-T5 MIN.)
   D. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC) **EXCLUDING** HVHZ. ALL PRODUCTS UNDER THE SCOPE OF THIS DOCUMENT HAVE BEEN EVALUATED ACCORDING TO THE FOLLOWING:.
   - FLORIDA BUILDING CODE SECTION 1709.8
2. ADEQUACY OF THE EXISTING STRUCTURAL 2X AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN NON-HVHZ AREAS.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 4.
7. MULLION MATERIAL: ALUMINUM 6063-T6 & WOOD
8. IN ACCORDANCE WITH THE CURRENT EDITION FBC, DISSIMILAR METALS INCLUDING FASTENERS SHALL BE PROTECTED FROM GALVANIC CORROSION.
9. MULL ASSEMBLIES ARE QUALIFIED FOR TWO OR MORE UNITS PER OPENING IN THE FOLLOWING CONFIGURATION:
   - "ONE-WAY" - RIBBON OR STACKED MULLIONS
   - "TWO-WAY" - 'X' OR 'T' MULLIONS

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1	GENERAL NOTES AND INSTALLATION NOTES
2	MULLION ASSEMBLY SECTIONS
3	CLIP/END DAM INSTALLATION DETAILS AND ANCHOR SCHEDULE
4	ANCHOR CLUSTER INSTALLATION DETAILS AND ANCHOR SCHEDULE
5	T-MULL M26649 ONE-WAY MULLION TABLE
6	T-MULL M26649 TWO-WAY MULLION TABLE
7	T-MULL M26649 ONE-WAY MULLION TABLE W/INTERIOR CLIP
8	T-MULL M26649 TWO-WAY MULLION TABLE W/INTERIOR CLIP
9	STACK MULL M26660 ONE-WAY MULLION TABLE

MISSILE IMPACT RATING
LARGE AND SMALL MISSILE IMPACT RATED (WZ3)

MULLING INSTRUCTIONS:

- STEP 1: ESTABLISH MULL ASSEMBLY TYPE AND MULL CONFIGURATION.
- STEP 2: VERIFY MULL ASSEMBLY CONSTRUCTION FROM SHEET 2.
- STEP 3: DETERMINE ALLOWABLE LOAD OF MULL ASSEMBLY FROM APPLICABLE LOAD TABLE, REFER TO SHEETS 5-9.
- STEP 4: INSTALL MULLION BASED ON APPLICABLE SPECIFICATIONS & DETAILS SHOWN ON SHEETS 3 AND 4.

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TITLE: *SERIES I200 MULLIONS (WZ3) (IMPACT)*
GENERAL NOTES AND INSTALLATION NOTES

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
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WEB: www.buildingdrops.com

REMARKS	BY	DATE
ANCHOR REVISIONS	SH	05/26
2026 FBC UPDATE	DB	08/26

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.

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.08.11 15:47:18 +02'00'

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

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL47848

DATE: 01.14.2026

DWG. BY: DB | CHK. BY: HFN

SCALE: NTS

DWG. #: QWP058

SHEET: 1 OF 9 | REV. A

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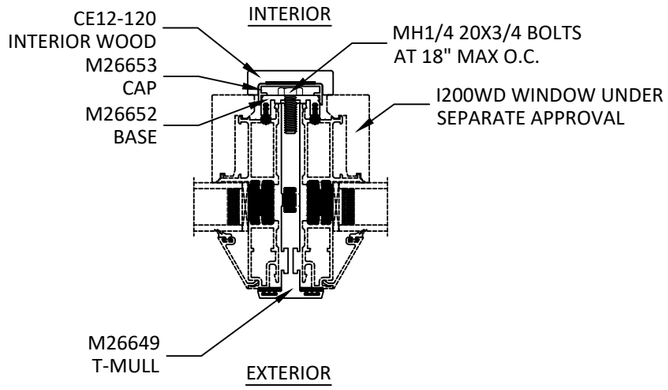
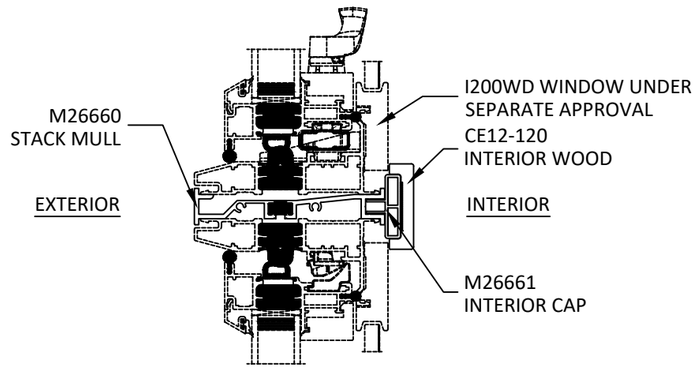


A/2 T-MULL M26649

VERTICAL OR HORIZONTAL MULL
I200WD WINDOWS



B/2 STACK MULL M26660

HORIZONTAL MULL
I200WD WINDOWS

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TITLE: *SERIES I200 MULLIONS (WZ3) (IMPACT)*
MULLION ASSEMBLY SECTIONS

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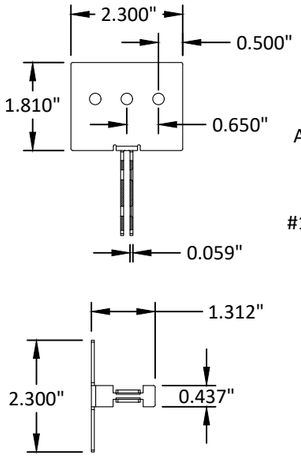
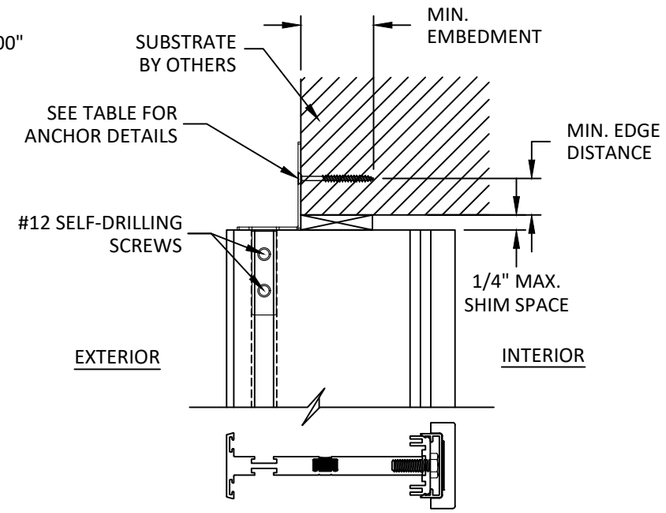
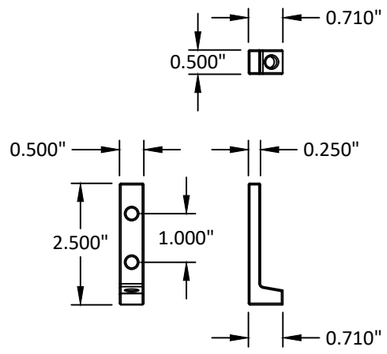
CLIP/END DAM INSTALLATION - FOR NAIL-FIN APPLICATIONS

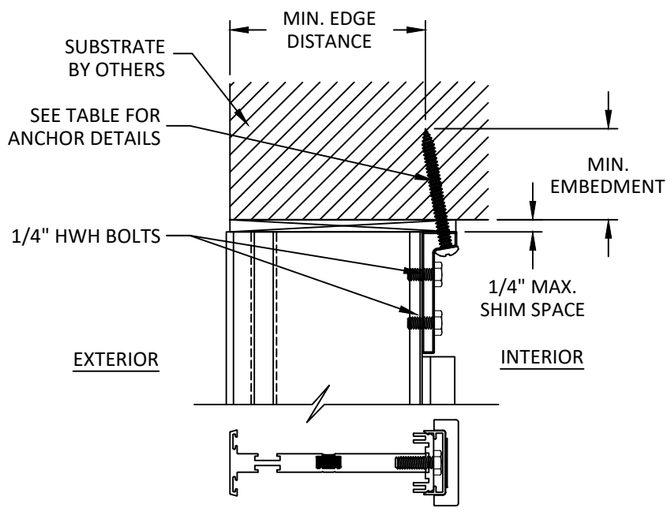




A/3 INSTALLATION DETAIL

CLIP 5235SS (HEAD SHOWN)
T-MULL M26649

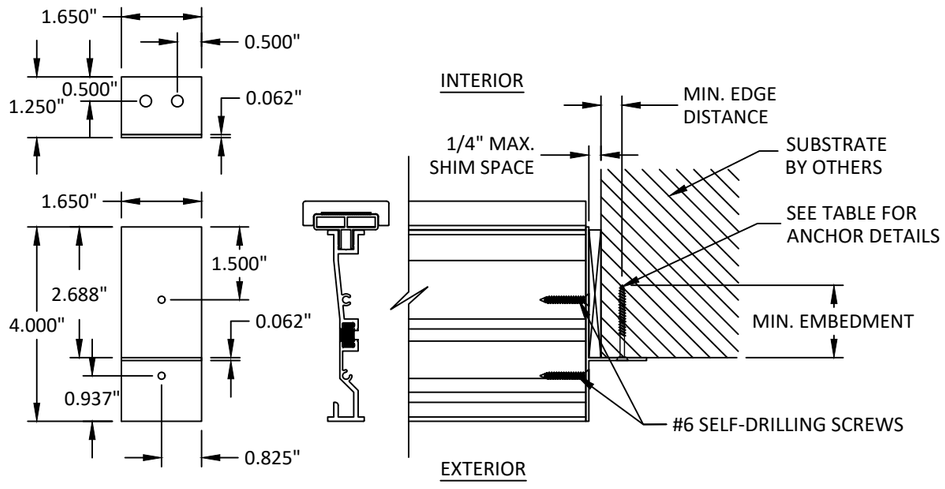




B/3 INSTALLATION DETAIL

INTERIOR CLIP 081925 (HEAD SHOWN)
OPTIONAL FOR T-MULL M26649

NOTE: HEAD SHOWN, JAMB AND SILL INSTALLATION SIMILAR ONLY FOR DETAILS A/3 AND B/3.



C/3 INSTALLATION DETAIL

END DAM M26664 (JAMB SHOWN)
M26660

ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
EXTERIOR CLIP 5235SS	WOOD: MIN. SG = 0.55	#14 WOOD SCREW	1.50"	0.75"
	METAL: 16 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	1/4" SELF-DRILLING SCREW	3 THREADS MIN. PENETRATION BEYOND STRUCTURE	0.50"
INTERIOR CLIP 081925	WOOD: MIN. SG = 0.55	#14 WOOD SCREW	1.50"	0.75"
	METAL: 16 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	1/4" SELF-DRILLING SCREW	3 THREADS MIN. PENETRATION BEYOND STRUCTURE	0.50"
STACK MULL END M26664	WOOD: MIN. SG = 0.55	#14 WOOD SCREW	1.50"	0.75"
	METAL: 16 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	1/4" SELF-DRILLING SCREW	3 THREADS MIN. PENETRATION BEYOND STRUCTURE	0.50"

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TITLE: *SERIES I200 MULLIONS (WZ3) (IMPACT)*
CLIP/END DAM INSTALLATION DETAILS AND ANCHOR SCHEDULE

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DWG. #: QWP058

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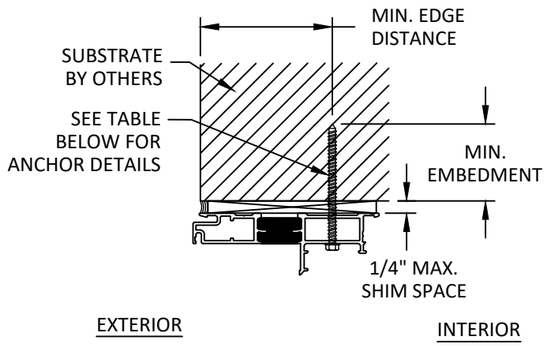
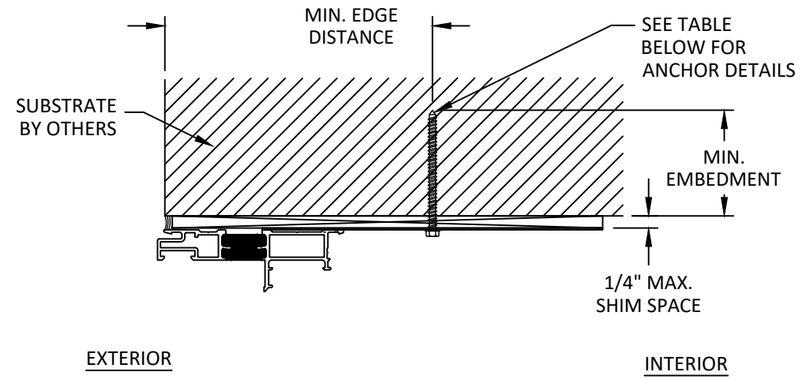
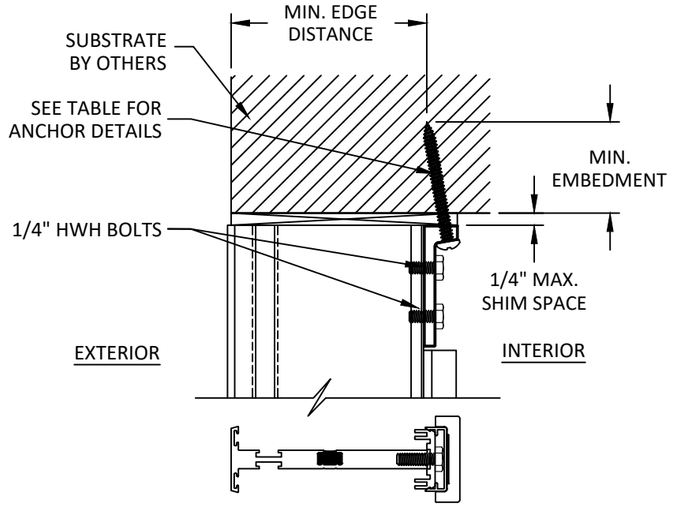
ANCHOR CLUSTER INSTALLATION - FOR THROUGH FRAME/STRAP APPLICATIONS



A/4 INSTALLATION DETAIL
I200 - THROUGH FRAME (HEAD SHOWN)
M26649 & M26660

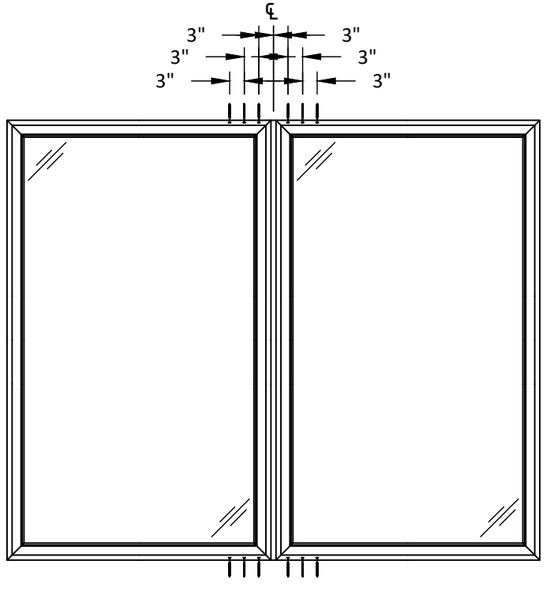


B/4 INSTALLATION DETAIL
I200 - STRAP (HEAD SHOWN)
M26649 & M26660



C/4 INSTALLATION DETAIL
INTERIOR CLIP 081925 (HEAD SHOWN)
OPTIONAL FOR T-MULL M26649

NOTE: HEAD SHOWN, JAMB AND SILL INSTALLATION SIMILAR.



CLUSTER LAYOUT
VERTICAL MULLION SHOWN, HORIZONTAL MULLION SIM.

ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
THROUGH FRAME/ STRAP	WOOD: MIN. SG = 0.55	#10 WOOD SCREW	1.50"	0.75"
	METAL: 16 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	#10 SELF-DRILLING SCREW	3 THREADS MIN. PENETRATION BEYOND STRUCTURE	0.50"
	CONCRETE: f'c=3000 PSI MIN.	3/16" ITW TAPCON	1.75"	2.25"
INTERIOR CLIP 081925	WOOD: MIN. SG = 0.55	#14 WOOD SCREW	1.50"	0.75"
	METAL: 16 GAUGE STEEL, MIN. Fy = 33KSI ALUMINUM: 1/8" MIN., 6063-T5	1/4" SELF-DRILLING SCREW	3 THREADS MIN. PENETRATION BEYOND STRUCTURE	0.50"
	CONCRETE: f'c=3000 PSI MIN.	1/4" ITW TAPCON	1.75"	3.00"

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TITLE: *SERIES I200 MULLIONS (WZ3) (IMPACT)*
ANCHOR CLUSTER INSTALLATION DETAILS AND ANCHOR SCHEDULE

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MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

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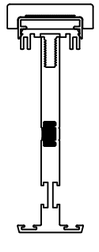
T-MULL M26649: ONE-WAY MULLION ALLOWABLE DESIGN PRESSURE TABLE

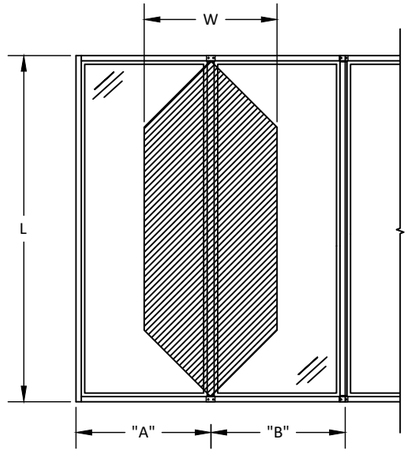
MULLION ALOWABLE DESIGN PRESSURE TABLE (PSF)																						
MULL LENGTH - L (IN.)	TRIBUTARY WIDTH - W (IN.)																					
	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144
24	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
30	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
36	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
42	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
48	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
54	150.0	150.0	150.0	150.0	150.0	145.4	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6	143.6
60	150.0	150.0	150.0	138.5	127.8	121.2	117.5	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3
66	150.0	150.0	136.8	121.2	110.8	103.9	99.4	96.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
72	150.0	145.4	122.4	107.7	97.7	90.9	86.2	83.1	81.3	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
78	150.0	132.2	110.8	96.9	87.5	80.8	76.0	72.7	70.5	69.2	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
84	150.0	121.2	101.1	88.1	79.1	72.7	68.0	64.6	62.2	60.6	59.7	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
90	143.6	111.8	93.1	80.8	72.2	66.1	61.5	58.2	55.7	53.9	52.6	51.9	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
96	133.7	103.9	86.2	74.6	66.5	60.6	56.2	52.9	50.4	48.5	47.1	46.2	45.6	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
102	125.1	96.9	80.2	69.2	61.5	55.9	51.7	48.5	46.0	44.1	42.6	41.5	40.8	40.4	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
108	117.5	90.9	75.0	64.6	56.3	50.2	45.6	42.1	39.3	37.2	35.5	34.3	33.3	32.7	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2
114	106.0	80.2	64.8	54.7	47.6	42.4	38.4	35.3	32.9	31.0	29.5	28.3	27.4	26.7	26.3	26.0	25.9	25.9	25.9	25.9	25.9	25.9
120	90.8	68.6	55.4	46.7	40.6	36.1	32.6	29.9	27.8	26.1	24.8	23.7	22.9	22.2	21.7	21.4	21.2	21.1	21.1	21.1	21.1	21.1
126	78.4	59.2	47.7	40.2	34.9	31.0	28.0	25.6	23.8	22.3	21.0	20.1	19.3	18.7	18.2	17.8	17.6	17.4	17.4	17.4	17.4	17.4
132	68.1	51.4	41.4	34.9	30.2	26.8	24.2	22.1	20.4	19.1	18.0	17.2	16.4	15.9	15.4	15.0	-	-	-	-	-	-
138	59.6	44.9	36.2	30.4	26.3	23.3	21.0	19.2	17.7	16.6	15.6	-	-	-	-	-	-	-	-	-	-	-
144	52.4	39.5	31.8	26.7	23.1	20.4	18.4	16.8	15.5	-	-	-	-	-	-	-	-	-	-	-	-	-

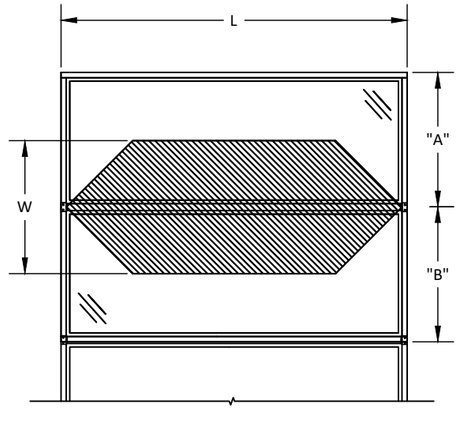
NOTE:

1. **MULLION CHART APPLIES TO ASSEMBLIES WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS.**
2. **DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.**
3. **DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.**
4. **DEFLECTION HAS BEEN LIMITED TO L/175.**
5. **TRIBUTARY WIDTH = W = (A+B)/2**
6. **REFER TO SHEETS 3 AND 4 FOR INSTALLATION DETAILS.**
7. **WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.**



T-MULL M26649





QUAKER COMMERCIAL
PO BOX 128
504 HIGHWAY 63 SOUTH
FREEBURG, MO 65035
PH: (573) 744-5211 FX:(573) 744-5822

TITLE: *SERIES I200 MULLIONS (WZ3) (IMPACT)*
T-MULL M26649 ONE-WAY MULLION TABLE

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
ANCHOR REVISIONS	SH	05/26
2026 FBC UPDATE	DB	08/26

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

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL47848

DATE: 01.14.2026

DWG. BY: DB | CHK. BY: HFN

SCALE: NTS

DWG. #: QWP058

SHEET: 5 OF 9 | REV. A

8/7/2026 1:20 PM
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T-MULL M26649: TWO-WAY MULLION ALLOWABLE DESIGN PRESSURE TABLE

MULLION ALOWABLE DESIGN PRESSURE TABLE (PSF)																						
MULL LENGTH - L (IN.)	TRIBUTARY WIDTH - W (IN.)																					
	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144
24	150.0	150.0	150.0	150.0	150.0	150.0	150.0	145.4	132.2	121.2	111.8	103.9	96.9	90.9	85.5	80.8	76.5	72.7	69.2	66.1	63.2	60.6
30	150.0	150.0	150.0	150.0	150.0	145.4	129.2	116.3	105.7	96.9	89.5	83.1	77.5	72.7	68.4	64.6	61.2	58.2	55.4	52.9	50.6	48.5
36	150.0	150.0	150.0	150.0	138.5	121.2	107.7	96.9	88.1	80.8	74.6	69.2	64.6	60.6	57.0	53.9	51.0	48.5	46.2	44.1	42.1	40.4
42	150.0	150.0	150.0	138.5	118.7	103.9	92.3	83.1	75.5	69.2	63.9	59.3	55.4	51.9	48.9	46.2	43.7	41.5	39.6	37.8	36.1	34.6
48	150.0	150.0	145.4	121.2	103.9	90.9	80.8	72.7	66.1	60.6	55.9	51.9	48.5	45.4	42.8	40.4	38.3	36.4	34.6	33.0	31.6	30.3
54	150.0	150.0	129.2	107.7	92.3	80.8	71.8	64.6	58.7	53.9	49.7	46.2	43.1	40.4	38.0	35.9	34.0	32.3	30.8	29.4	28.1	26.9
60	150.0	145.4	116.3	96.9	83.1	72.7	64.6	58.2	52.9	48.5	44.7	41.5	38.8	36.4	34.2	32.3	30.6	29.1	27.7	26.4	25.3	24.2
66	150.0	132.2	105.7	88.1	75.5	66.1	58.7	52.9	48.1	44.1	40.7	37.8	35.2	33.0	31.1	29.4	27.8	26.4	25.2	24.0	23.0	22.0
72	150.0	121.2	96.9	80.8	69.2	60.6	53.9	48.5	44.1	40.4	37.3	34.6	32.3	30.3	28.5	26.9	25.5	24.2	23.1	22.0	21.1	20.2
78	149.1	111.8	89.5	74.6	63.9	55.9	49.7	44.7	40.7	37.3	34.4	32.0	29.8	28.0	26.3	24.9	23.5	22.4	21.3	20.3	19.5	18.6
84	138.5	103.9	83.1	69.2	59.3	51.9	46.2	41.5	37.8	34.6	32.0	29.7	27.7	26.0	24.4	23.1	21.9	20.8	19.8	18.9	18.1	17.3
90	129.2	96.9	77.5	64.6	55.4	48.5	43.1	38.8	35.2	32.3	29.8	27.7	25.8	24.2	22.8	21.5	20.4	19.4	18.5	17.6	16.9	16.2
96	121.2	90.9	72.7	60.6	51.9	45.4	40.4	36.4	33.0	30.3	28.0	26.0	24.2	22.7	21.4	20.2	19.1	18.2	17.3	16.5	15.8	15.1
102	114.0	85.5	68.4	57.0	48.9	42.8	38.0	34.2	31.1	28.5	26.3	24.4	22.8	21.4	20.1	19.0	18.0	17.1	16.3	15.6	-	-
108	107.7	80.8	64.6	53.9	46.2	40.4	35.9	32.3	29.4	26.9	24.9	23.1	21.5	20.2	19.0	18.0	17.0	16.2	15.4	-	-	-
114	102.0	76.5	61.2	51.0	43.7	38.3	34.0	30.6	27.8	25.5	23.5	21.9	20.4	19.1	18.0	17.0	16.1	15.3	-	-	-	-
120	90.1	67.5	54.0	45.0	38.6	33.8	30.0	27.0	24.6	22.5	20.8	19.3	18.0	16.9	15.9	15.0	-	-	-	-	-	-
126	77.8	58.3	46.7	38.9	33.3	29.2	25.9	23.3	21.2	19.4	18.0	16.7	15.6	-	-	-	-	-	-	-	-	-
132	67.7	50.7	40.6	33.8	29.0	25.4	22.6	20.3	18.5	16.9	15.6	-	-	-	-	-	-	-	-	-	-	-
138	59.2	44.4	35.5	29.6	25.4	22.2	19.7	17.8	16.1	-	-	-	-	-	-	-	-	-	-	-	-	-
144	52.1	39.1	31.3	26.1	22.3	19.5	17.4	15.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTE:

1. **MULLION CHART APPLIES TO ASSEMBLIES WHEN MULLED IN TWO-WAY, 'X' OR 'T', CONFIGURATIONS.**
2. **DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.**
3. **DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.**
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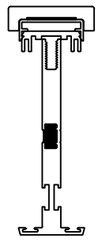
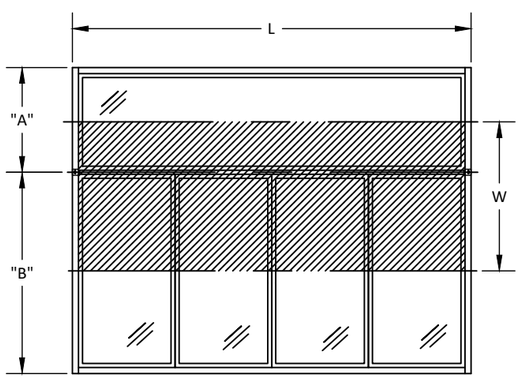
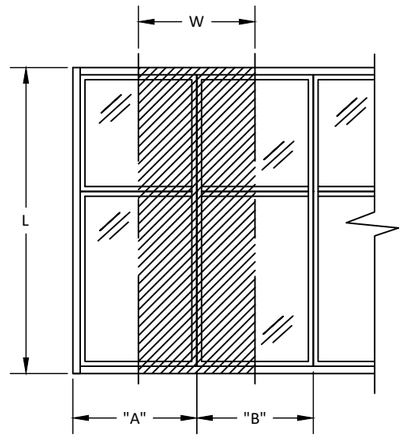


T-MULL M26649





QUAKER COMMERCIAL
PO BOX 128
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FREEBURG, MO 65035
PH: (573) 744-5211 FX:(573) 744-5822

TITLE: *SERIES I200 MULLIONS (WZ3) (IMPACT)*
T-MULL M26649 TWO-WAY MULLION TABLE

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
ANCHOR REVISIONS	SH	05/26
2026 FBC UPDATE	DB	08/26

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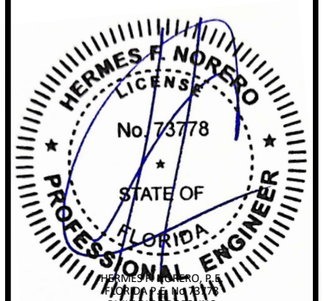

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL47848

DATE: 01.14.2026

DWG. BY: DB | CHK. BY: HFN

SCALE: NTS

DWG. #: QWP058

SHEET: 6 | REV. A

8/7/2026 1:20 PM
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T-MULL M26649 W/INTERIOR CLIP: ONE-WAY MULLION ALLOWABLE DESIGN PRESSURE TABLE

MULLION ALOWABLE DESIGN PRESSURE TABLE (PSF)																						
MULL LENGTH - L (IN.)	TRIBUTARY WIDTH - W (IN.)																					
	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144
24	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
30	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
36	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
42	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
48	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
54	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
66	150.0	150.0	150.0	150.0	146.6	137.4	131.6	128.3	127.2	127.2	127.2	127.2	127.2	127.2	127.2	127.2	127.2	127.2	127.2	127.2	127.2	127.2
72	150.0	150.0	150.0	142.5	129.3	120.3	114.0	109.9	107.6	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9
78	150.0	150.0	146.6	128.3	115.7	106.9	100.6	96.2	93.3	91.6	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
84	150.0	150.0	133.8	116.6	104.7	96.2	90.0	85.5	82.3	80.2	78.9	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
90	150.0	148.0	123.1	106.9	95.6	87.5	81.4	77.0	73.1	70.2	68.2	67.1	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
96	150.0	135.3	109.8	93.1	81.5	73.1	66.8	62.1	58.5	55.8	53.9	52.6	51.8	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
102	148.4	112.4	91.1	77.1	67.4	60.2	54.9	50.8	47.6	45.2	43.4	42.1	41.2	40.6	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
108	124.8	94.5	76.5	64.6	56.3	50.2	45.6	42.1	39.3	37.2	35.5	34.3	33.3	32.7	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2
114	106.0	80.2	64.8	54.7	47.6	42.4	38.4	35.3	32.9	31.0	29.5	28.3	27.4	26.7	26.3	26.0	25.9	25.9	25.9	25.9	25.9	25.9
120	90.8	68.6	55.4	46.7	40.6	36.1	32.6	29.9	27.8	26.1	24.8	23.7	22.9	22.2	21.7	21.4	21.2	21.1	21.1	21.1	21.1	21.1
126	78.4	59.2	47.7	40.2	34.9	31.0	28.0	25.6	23.8	22.3	21.0	20.1	19.3	18.7	18.2	17.8	17.6	17.4	17.4	17.4	17.4	17.4
132	68.1	51.4	41.4	34.9	30.2	26.8	24.2	22.1	20.4	19.1	18.0	17.2	16.4	15.9	15.4	15.0	-	-	-	-	-	-
138	59.6	44.9	36.2	30.4	26.3	23.3	21.0	19.2	17.7	16.6	15.6	-	-	-	-	-	-	-	-	-	-	-
144	52.4	39.5	31.8	26.7	23.1	20.4	18.4	16.8	15.5	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTE:

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3. **DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.**
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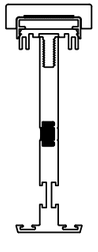
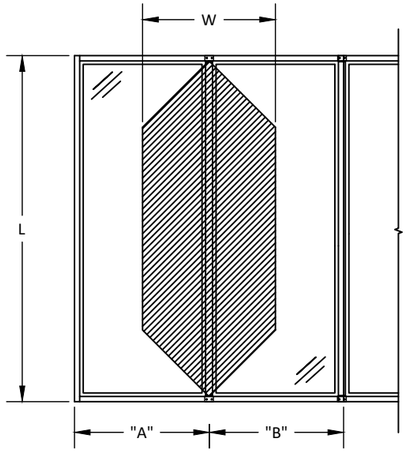
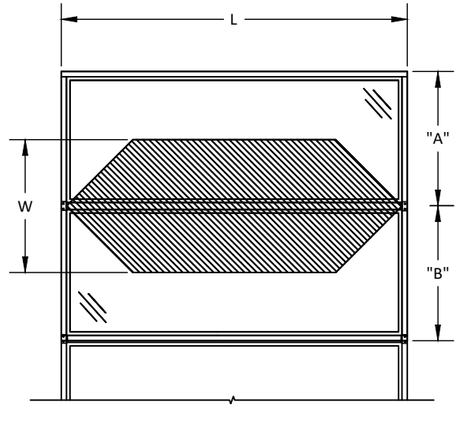


T-MULL M26649





QUAKER COMMERCIAL
PO BOX 128
504 HIGHWAY 63 SOUTH
FREEBURG, MO 65035
PH: (573) 744-5211 FX:(573) 744-5822

TITLE: *SERIES I200 MULLIONS (WZ3) (IMPACT)*
T-MULL M26649 ONE-WAY MULLION TABLE W/INTERIOR CLIP

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
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REMARKS	BY	DATE
ANCHOR REVISIONS	SH	05/26
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HERMES F. NORERO LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

FL #: FL47848

DATE: 01.14.2026

DWG. BY: DB | CHK. BY: HFN

SCALE: NTS

DWG. #: QWP058

SHEET: 7 | REV. A

OF 9

8/7/2026 1:20 PM
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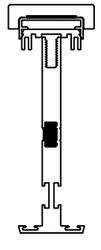
T-MULL M26649 W/INTERIOR CLIP: TWO-WAY MULLION ALLOWABLE DESIGN PRESSURE TABLE

MULLION ALOWABLE DESIGN PRESSURE TABLE (PSF)

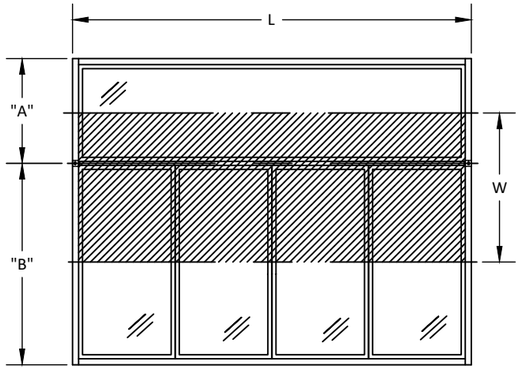
MULL LENGTH - L (IN.)	TRIBUTARY WIDTH - W (IN.)																					
	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144
24	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	148.0	137.4	128.3	120.3	113.2	106.9	101.3	96.2	91.6	87.5	83.7	80.2
30	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	139.9	128.3	118.4	109.9	102.6	96.2	90.5	85.5	81.0	77.0	73.3	70.0	66.9	64.1
36	150.0	150.0	150.0	150.0	150.0	150.0	142.5	128.3	116.6	106.9	98.7	91.6	85.5	80.2	75.5	71.3	67.5	64.1	61.1	58.3	55.8	53.4
42	150.0	150.0	150.0	150.0	150.0	137.4	122.2	109.9	99.9	91.6	84.6	78.5	73.3	68.7	64.7	61.1	57.9	55.0	52.4	50.0	47.8	45.8
48	150.0	150.0	150.0	150.0	137.4	120.3	106.9	96.2	87.5	80.2	74.0	68.7	64.1	60.1	56.6	53.4	50.6	48.1	45.8	43.7	41.8	40.1
54	150.0	150.0	150.0	142.5	122.2	106.9	95.0	85.5	77.7	71.3	65.8	61.1	57.0	53.4	50.3	47.5	45.0	42.8	40.7	38.9	37.2	35.6
60	150.0	150.0	150.0	128.3	109.9	96.2	85.5	77.0	70.0	64.1	59.2	55.0	51.3	48.1	45.3	42.8	40.5	38.5	36.6	35.0	33.5	32.1
66	150.0	150.0	139.9	116.6	99.9	87.5	77.7	70.0	63.6	58.3	53.8	50.0	46.6	43.7	41.2	38.9	36.8	35.0	33.3	31.8	30.4	29.2
72	150.0	150.0	128.3	106.9	91.6	80.2	71.3	64.1	58.3	53.4	49.3	45.8	42.8	40.1	37.7	35.6	33.8	32.1	30.5	29.2	27.9	26.7
78	150.0	148.0	118.4	98.7	84.6	74.0	65.8	59.2	53.8	49.3	45.5	42.3	39.5	37.0	34.8	32.9	31.2	29.6	28.2	26.9	25.7	24.7
84	150.0	137.4	109.9	91.6	78.5	68.7	61.1	55.0	50.0	45.8	42.3	39.3	36.6	34.4	32.3	30.5	28.9	27.5	26.2	25.0	23.9	22.9
90	150.0	128.3	102.6	85.5	73.3	64.1	57.0	51.3	46.6	42.8	39.5	36.6	34.2	32.1	30.2	28.5	27.0	25.7	24.4	23.3	22.3	21.4
96	150.0	120.3	96.2	80.2	68.7	60.1	53.4	48.1	43.7	40.1	37.0	34.4	32.1	30.1	28.3	26.7	25.3	24.1	22.9	21.9	20.9	20.0
102	146.6	110.0	88.0	73.3	62.8	55.0	48.9	44.0	40.0	36.7	33.8	31.4	29.3	27.5	25.9	24.4	23.2	22.0	20.9	20.0	19.1	18.3
108	123.5	92.6	74.1	61.8	52.9	46.3	41.2	37.1	33.7	30.9	28.5	26.5	24.7	23.2	21.8	20.6	19.5	18.5	17.6	16.8	16.1	15.4
114	105.0	78.8	63.0	52.5	45.0	39.4	35.0	31.5	28.6	26.3	24.2	22.5	21.0	19.7	18.5	17.5	16.6	15.8	15.0	-	-	-
120	90.1	67.5	54.0	45.0	38.6	33.8	30.0	27.0	24.6	22.5	20.8	19.3	18.0	16.9	15.9	15.0	-	-	-	-	-	-
126	77.8	58.3	46.7	38.9	33.3	29.2	25.9	23.3	21.2	19.4	18.0	16.7	15.6	-	-	-	-	-	-	-	-	-
132	67.7	50.7	40.6	33.8	29.0	25.4	22.6	20.3	18.5	16.9	15.6	-	-	-	-	-	-	-	-	-	-	-
138	59.2	44.4	35.5	29.6	25.4	22.2	19.7	17.8	16.1	-	-	-	-	-	-	-	-	-	-	-	-	-
144	52.1	39.1	31.3	26.1	22.3	19.5	17.4	15.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-

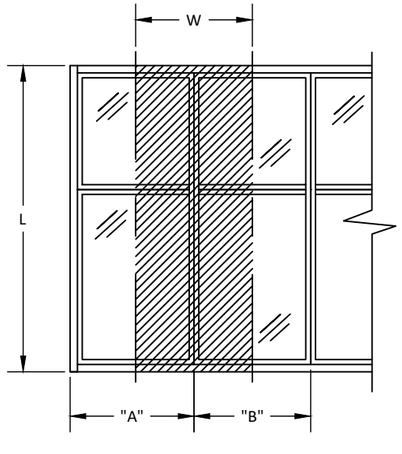
NOTE:

1. **MULLION CHART APPLIES TO ASSEMBLIES WHEN MULLED IN TWO-WAY, 'X' OR 'T', CONFIGURATIONS.**
2. **DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.**
3. **DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.**
4. **DEFLECTION HAS BEEN LIMITED TO L/175.**
5. **TRIBUTARY WIDTH = W = (A+B)/2**
6. **REFER TO SHEETS 3 AND 4 FOR INSTALLATION DETAILS.**
7. **WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.**



T-MULL M26649





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TITLE: *SERIES I200 MULLIONS (WZ3) (IMPACT)*
T-MULL M26649 TWO-WAY
MULLION TABLE W/INTERIOR CLIP

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
ANCHOR REVISIONS	SH	05/26
2026 FBC UPDATE	DB	08/26

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.

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

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL47848

DATE: 01.14.2026

DWG. BY: DB | CHK. BY: HFN

SCALE: NTS

DWG. #: QWP058

SHEET: 8 OF 9 | REV. A

STACK MULL M26660: ONE-WAY MULLION ALLOWABLE DESIGN PRESSURE TABLE

MULLION ALOWABLE DESIGN PRESSURE TABLE (PSF)																						
MULL LENGTH - L (IN.)	TRIBUTARY WIDTH - W (IN.)																					
	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144
24	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
30	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
36	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
42	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
48	150.0	150.0	140.8	129.1	122.9	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0
54	150.0	138.3	119.1	107.6	100.6	96.8	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
60	150.0	121.0	103.3	92.2	85.1	80.7	78.2	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
66	135.9	107.6	91.1	80.7	73.8	69.1	66.2	64.5	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
72	122.9	96.8	81.5	71.7	65.1	60.5	57.4	55.3	54.2	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
78	112.2	88.0	73.8	64.5	58.2	53.8	50.6	48.4	46.9	46.1	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
84	103.3	80.7	67.3	58.7	52.7	48.4	45.3	43.0	41.4	40.3	39.7	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
90	95.6	74.5	62.0	53.8	48.1	44.0	41.0	38.7	37.1	35.9	35.0	34.6	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4
96	89.0	69.1	57.4	49.6	44.3	40.3	37.4	35.2	33.5	32.3	31.4	30.7	30.4	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
102	83.3	64.5	53.4	46.1	41.0	37.2	34.1	31.5	29.6	28.1	26.9	26.1	25.6	25.2	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
108	77.5	58.7	47.5	40.1	35.0	31.2	28.3	26.1	24.4	23.1	22.1	21.3	20.7	20.3	20.1	20.0	20.0	20.0	20.0	20.0	20.0	20.0
114	65.8	49.8	40.2	34.0	29.6	26.3	23.8	21.9	20.4	19.2	18.3	17.6	17.0	16.6	16.3	16.2	16.1	16.1	16.1	16.1	16.1	16.1
120	56.4	42.6	34.4	29.0	25.2	22.4	20.3	18.6	17.3	16.2	15.4	-	-	-	-	-	-	-	-	-	-	-
126	48.7	36.7	29.6	25.0	21.7	19.2	17.4	15.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
132	42.3	31.9	25.7	21.6	18.8	16.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
138	37.0	27.9	22.5	18.9	16.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
144	32.5	24.5	19.8	16.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTE:

1. **MULLION CHART APPLIES TO ASSEMBLIES WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS.**
2. **DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.**
3. **DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.**
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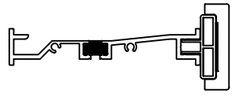
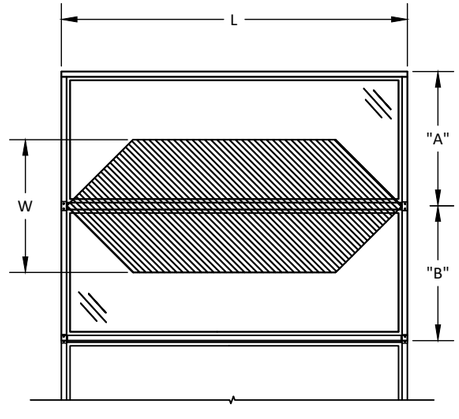


STACK MULL M26660



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TITLE: *SERIES I200 MULLIONS (WZ3) (IMPACT)*
STACK MULL M26660
ONE-WAY MULLION TABLE

PREPARED BY:
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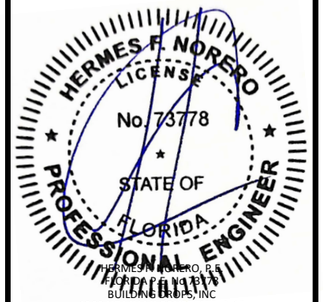

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DB	HFN

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SHEET: 9 OF 9

REV. A

8/7/2026 1:20 PM
c:\users\danielbultrago\building drops, inc\building drops landing - common\projects\2026 code change projects\quaker window products\cc-26-0350 - 2026 code change\dwgs\fl47848\qwp058 - a.dwg