QUAKER WINDOW PRODUCTS

SERIES H4503 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 OF THE 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 CONCRETE/MASONRY, 2X AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT 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
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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5	ANCHOR CLUSTER INSTALLATION DETAILS AND ANCHOR SCHEDULE
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8	T-MULL M24500 ONE-WAY MULLION TABLE
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10	T-MULL M24497 ONE-WAY MULLION TABLE
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18	STACK MULL M23723 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 6-18.
- STEP 4: INSTALL MULLION BASED ON APPLICABLE SPECIFICATIONS & DETAILS SHOWN ON SHEETS 3, 4, AND 5.

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TITLE: *SERIES H4503 MULLIONS (WZ3)(IMPACT)*
GENERAL NOTES AND INSTALLATION NOTES

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

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.08.11 15:46:38 +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
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FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL47848

DATE: 10.07.2025

DWG. BY: SH | CHK. BY: HFN

SCALE: NTS

DWG. #: QWP039

SHEET: 1 OF 18 | REV. A

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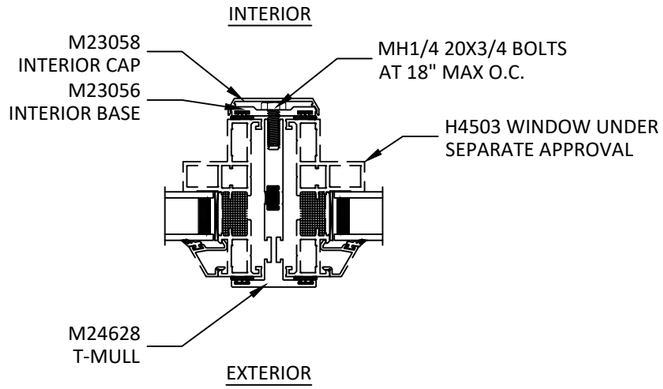
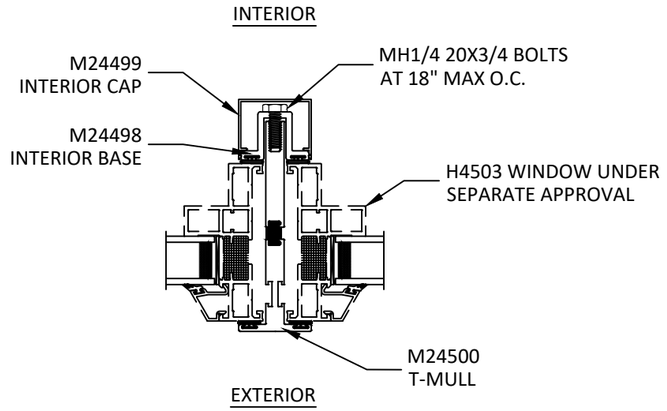


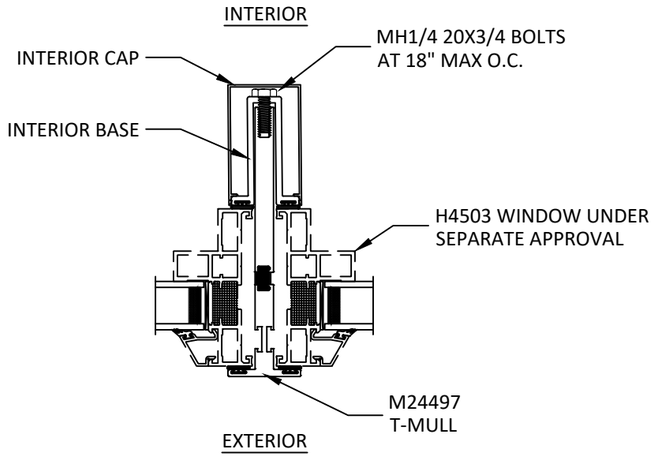
A/2 T-MULL M24628

VERTICAL OR HORIZONTAL MULL
H450 WINDOWS



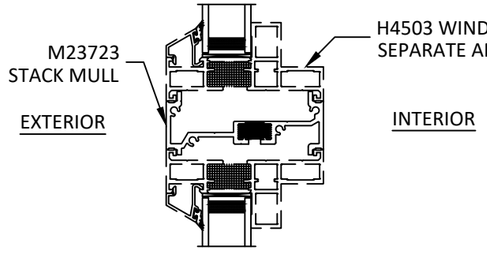
B/2 T-MULL M24500

VERTICAL OR HORIZONTAL MULL
H450 WINDOWS



C/2 T-MULL M24497

VERTICAL OR HORIZONTAL MULL
H450 WINDOWS



D/2 STACK MULL M23723

HORIZONTAL MULL
H450 WINDOWS

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TITLE: *SERIES H4503 MULLIONS (WZ3)(IMPACT)*
MULLION ASSEMBLY SECTIONS

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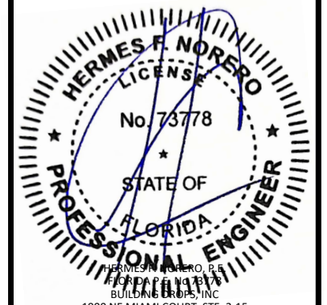

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FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL47848

DATE: 10.07.2025

DWG. BY:	CHK. BY:
SH	HFN

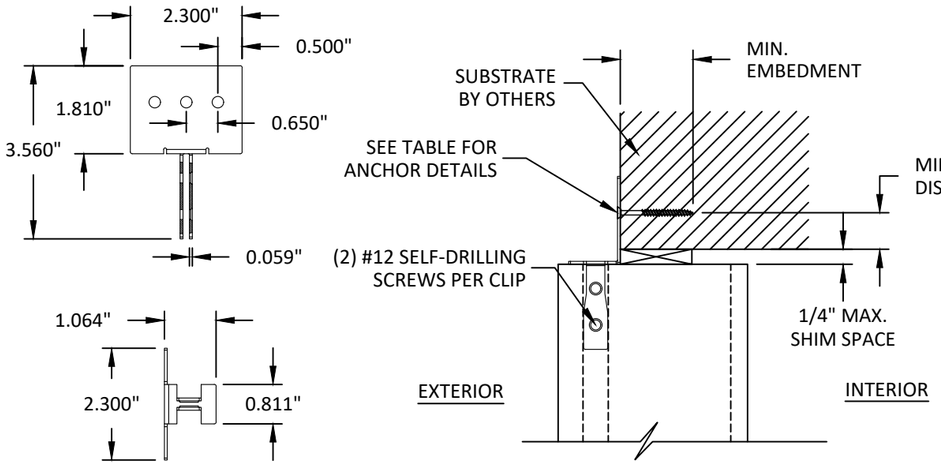
SCALE: NTS

DWG. #: QWP039

SHEET: 2 OF 18

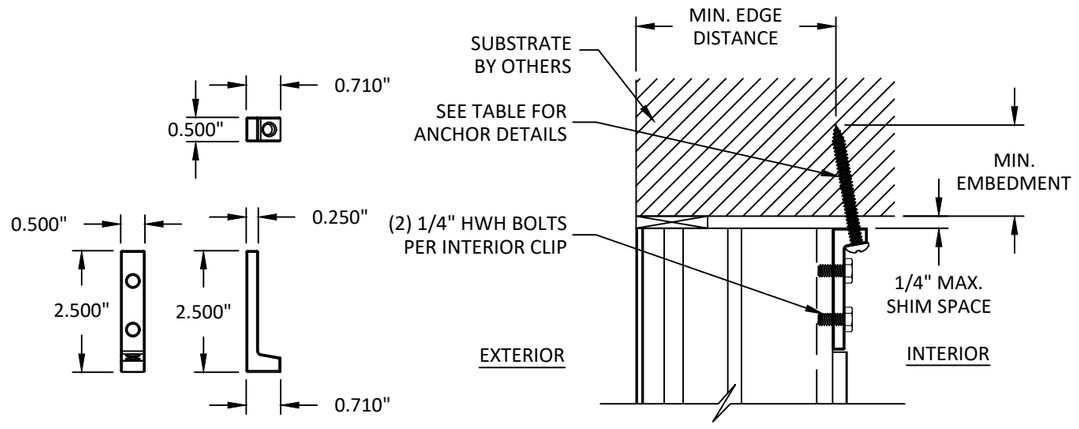
REV. A

CLIP INSTALLATION - FOR NAIL-FIN APPLICATIONS



A/3 INSTALLATION DETAIL

CLIP 5237SS (HEAD SHOWN)
M24628, M24500 & M24497



B/3 INSTALLATION DETAIL

INTERIOR CLIP 081925 (HEAD SHOWN)
OPTIONAL FOR ALL T-MULLS

NOTE: HEAD SHOWN, JAMB AND SILL INSTALLATION SIMILAR.

ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
CLIPS & INTERIOR CLIP	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 H4503 MULLIONS (WZ3)(IMPACT)*
CLIP INSTALLATION DETAILS AND ANCHOR SCHEDULE

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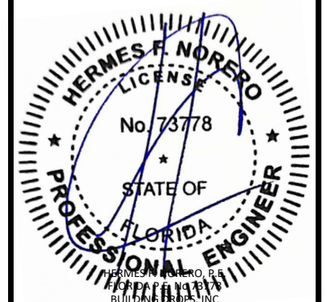

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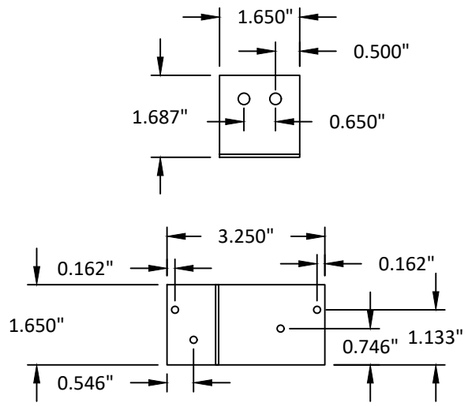
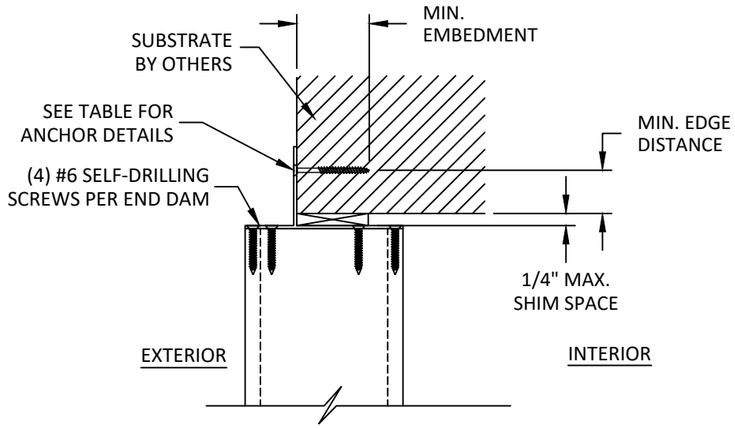
END DAM INSTALLATION - FOR NAIL-FIN APPLICATIONS





A/4 INSTALLATION DETAIL

END DAM M23844 (HEAD SHOWN)
M23841

NOTE: HEAD SHOWN, JAMB AND SILL INSTALLATION SIMILAR.

ANCHOR SCHEDULE				
METHOD	SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
END DAM	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 H4503 MULLIONS (WZ3)(IMPACT)*
END DAM INSTALLATION DETAILS AND ANCHOR SCHEDULE

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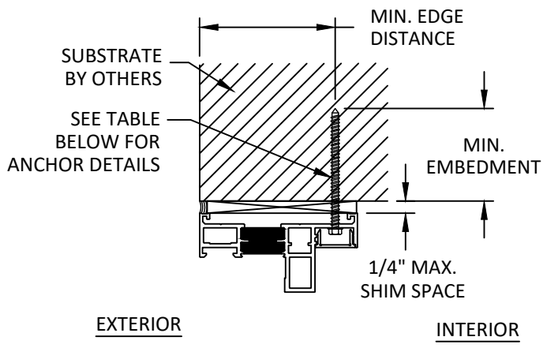
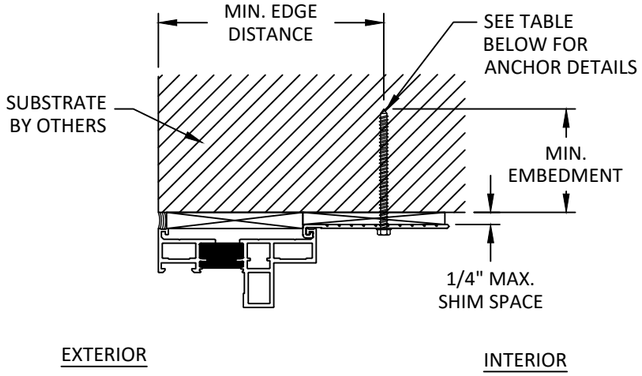
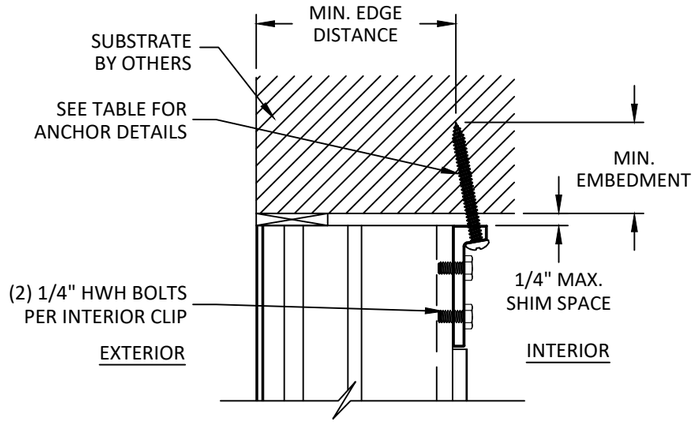
ANCHOR CLUSTER INSTALLATION - FOR THROUGH FRAME/STRAP APPLICATIONS



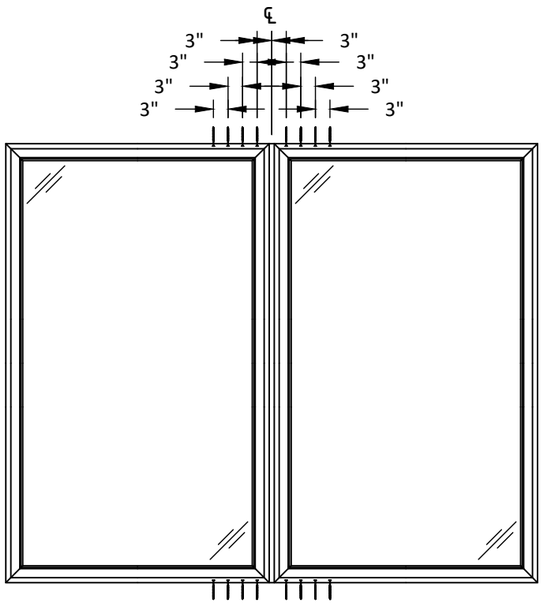
A/5 INSTALLATION DETAIL
H4503 - THROUGH FRAME (HEAD SHOWN)
M24628, M24500, M24497 & M23841



B/5 INSTALLATION DETAIL
H4503 - STRAP (HEAD SHOWN)
M24628, M24500, M24497 & M23841



C/5 INSTALLATION DETAIL
INTERIOR CLIP 081925 (HEAD SHOWN)
OPTIONAL FOR ALL T-MULLS



CLUSTER LAYOUT
VERTICAL MULLION SHOWN, HORIZONTAL MULLION SIM.

NOTE: HEAD SHOWN, JAMB AND SILL INSTALLATION SIMILAR.

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	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 H4503 MULLIONS (WZ3)(IMPACT)*
ANCHOR CLUSTER INSTALLATION DETAILS AND ANCHOR SCHEDULE

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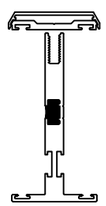
T-MULL M24628: ONE-WAY MULLION ALLOWABLE DESIGN PRESSURE TABLE

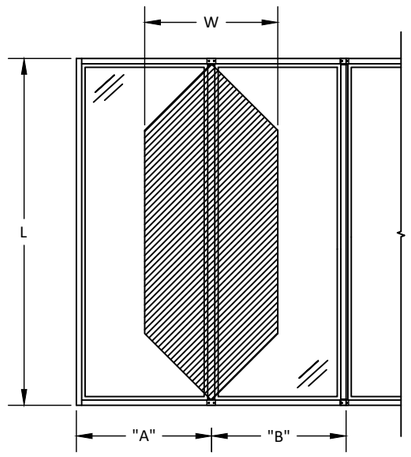
MULLION ALOWABLE DESIGN PRESSURE TABLE (PSF)																						
MULL LENGTH - L (IN.)	TRIBUTARY WIDTH - W (IN.)																					
	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144
24	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	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	138.5	131.3	127.3	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0
66	150.0	150.0	148.2	131.3	120.0	112.5	107.7	105.0	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1
72	150.0	150.0	132.6	116.7	105.9	98.4	93.3	90.0	88.1	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
78	150.0	143.2	120.0	105.0	94.7	87.5	82.4	78.8	76.4	75.0	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
84	150.0	131.3	109.6	95.5	85.7	78.8	73.7	70.0	67.4	65.6	64.6	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
90	150.0	121.2	100.8	87.5	78.3	71.6	66.7	63.0	60.3	58.3	57.0	56.3	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
96	144.8	112.5	93.3	80.8	71.9	64.5	58.9	54.7	51.6	49.2	47.5	46.4	45.7	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
102	130.9	99.2	80.4	68.0	59.4	53.1	48.4	44.8	42.0	39.9	38.3	37.1	36.3	35.8	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
108	110.1	83.3	67.4	57.0	49.7	44.3	40.2	37.1	34.7	32.8	31.3	30.2	29.4	28.8	28.5	28.4	28.4	28.4	28.4	28.4	28.4	28.4
114	93.5	70.7	57.2	48.2	42.0	37.4	33.9	31.1	29.0	27.3	26.0	25.0	24.2	23.6	23.2	23.0	22.9	22.9	22.9	22.9	22.9	22.9
120	80.1	60.5	48.9	41.2	35.8	31.8	28.8	26.4	24.5	23.0	21.9	20.9	20.2	19.6	19.2	18.9	18.7	18.6	18.6	18.6	18.6	18.6
126	69.1	52.2	42.1	35.5	30.8	27.3	24.7	22.6	20.9	19.6	18.6	17.7	17.0	16.5	16.0	15.7	15.5	15.4	15.3	15.3	15.3	15.3
132	60.1	45.3	36.5	30.7	26.7	23.6	21.3	19.5	18.0	16.9	15.9	15.1	-	-	-	-	-	-	-	-	-	-
138	52.5	39.6	31.9	26.8	23.2	20.6	18.5	16.9	15.6	-	-	-	-	-	-	-	-	-	-	-	-	-
144	46.2	34.8	28.1	23.6	20.4	18.0	16.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

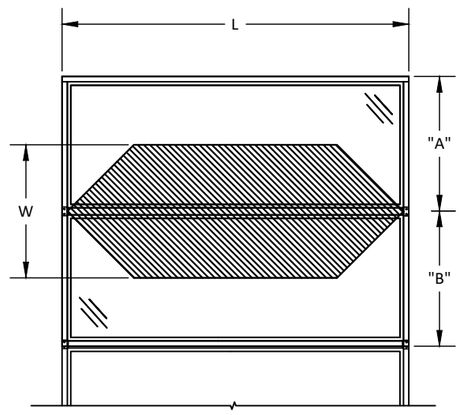
NOTE:

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, 4, AND 5 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 M24628





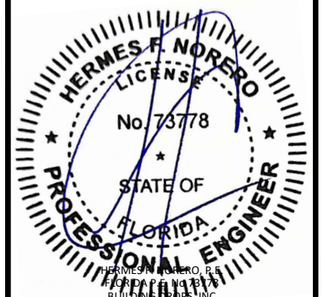
QUAKER COMMERCIAL
PO BOX 128
504 HIGHWAY 63 SOUTH
FREEBURG, MO 65035
PH: (573) 744-5211 FX: (573) 744-5822

TITLE: *SERIES H4503 MULLIONS (WZ3)(IMPACT)*
T-MULL M24628 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

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, 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: 10.07.2025

DWG. BY: SH | CHK. BY: HFN

SCALE: NTS

DWG. #: QWP039

SHEET: 6 | REV. A

OF 18

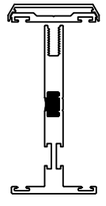
8/3/2026 8:51 PM
c:\users\danielbultrago\building drops, inc\building drops landing - common\projects\2026 code change projects\quaker window products\cc-26-0350 - 2026 code change\dwgs\fl47848\qwp039 - a.dwg

T-MULL M24628: TWO-WAY MULLION ALLOWABLE DESIGN PRESSURE TABLE

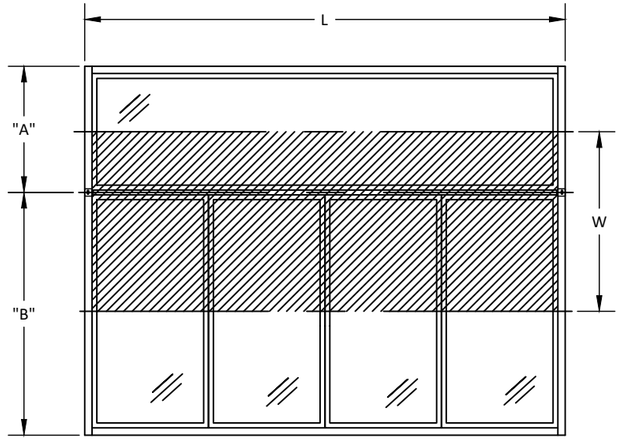
MULLION ALOWABLE DESIGN PRESSURE TABLE (PSF)																						
MULL LENGTH - L (IN.)	TRIBUTARY WIDTH - W (IN.)																					
	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144
24	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	143.2	131.3	121.2	112.5	105.0	98.4	92.6	87.5	82.9	78.8	75.0	71.6	68.5	65.6
30	150.0	150.0	150.0	150.0	150.0	150.0	140.0	126.0	114.5	105.0	96.9	90.0	84.0	78.8	74.1	70.0	66.3	63.0	60.0	57.3	54.8	52.5
36	150.0	150.0	150.0	150.0	150.0	131.3	116.7	105.0	95.5	87.5	80.8	75.0	70.0	65.6	61.8	58.3	55.3	52.5	50.0	47.7	45.7	43.8
42	150.0	150.0	150.0	150.0	128.6	112.5	100.0	90.0	81.8	75.0	69.2	64.3	60.0	56.3	52.9	50.0	47.4	45.0	42.9	40.9	39.1	37.5
48	150.0	150.0	150.0	131.3	112.5	98.4	87.5	78.8	71.6	65.6	60.6	56.3	52.5	49.2	46.3	43.8	41.4	39.4	37.5	35.8	34.2	32.8
54	150.0	150.0	140.0	116.7	100.0	87.5	77.8	70.0	63.6	58.3	53.8	50.0	46.7	43.8	41.2	38.9	36.8	35.0	33.3	31.8	30.4	29.2
60	150.0	150.0	126.0	105.0	90.0	78.8	70.0	63.0	57.3	52.5	48.5	45.0	42.0	39.4	37.1	35.0	33.2	31.5	30.0	28.6	27.4	26.3
66	150.0	143.2	114.5	95.5	81.8	71.6	63.6	57.3	52.1	47.7	44.1	40.9	38.2	35.8	33.7	31.8	30.1	28.6	27.3	26.0	24.9	23.9
72	150.0	131.3	105.0	87.5	75.0	65.6	58.3	52.5	47.7	43.8	40.4	37.5	35.0	32.8	30.9	29.2	27.6	26.3	25.0	23.9	22.8	21.9
78	150.0	121.2	96.9	80.8	69.2	60.6	53.8	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
84	150.0	112.5	90.0	75.0	64.3	56.3	50.0	45.0	40.9	37.5	34.6	32.1	30.0	28.1	26.5	25.0	23.7	22.5	21.4	20.5	19.6	18.8
90	140.0	105.0	84.0	70.0	60.0	52.5	46.7	42.0	38.2	35.0	32.3	30.0	28.0	26.3	24.7	23.3	22.1	21.0	20.0	19.1	18.3	17.5
96	131.3	98.4	78.8	65.6	56.3	49.2	43.8	39.4	35.8	32.8	30.3	28.1	26.3	24.6	23.2	21.9	20.7	19.7	18.8	17.9	17.1	16.4
102	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
108	109.0	81.7	65.4	54.5	46.7	40.9	36.3	32.7	29.7	27.2	25.1	23.3	21.8	20.4	19.2	18.2	17.2	16.3	15.6	-	-	-
114	92.6	69.5	55.6	46.3	39.7	34.7	30.9	27.8	25.3	23.2	21.4	19.9	18.5	17.4	16.3	15.4	-	-	-	-	-	-
120	79.4	59.6	47.7	39.7	34.0	29.8	26.5	23.8	21.7	19.9	18.3	17.0	15.9	-	-	-	-	-	-	-	-	-
126	68.6	51.5	41.2	34.3	29.4	25.7	22.9	20.6	18.7	17.2	15.8	-	-	-	-	-	-	-	-	-	-	-
132	59.7	44.8	35.8	29.8	25.6	22.4	19.9	17.9	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-
138	52.2	39.2	31.3	26.1	22.4	19.6	17.4	15.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
144	46.0	34.5	27.6	23.0	19.7	17.2	15.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

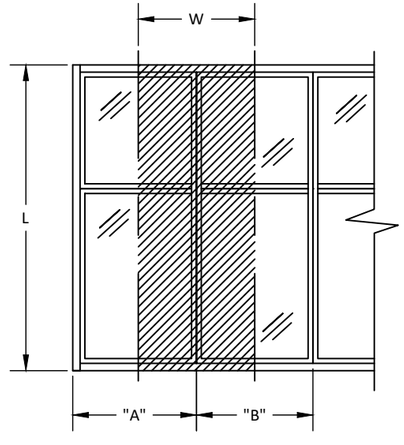
NOTE:

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, 4, AND 5 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 M24628





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

TITLE: *SERIES H4503 MULLIONS (WZ3)(IMPACT)*
T-MULL M24628 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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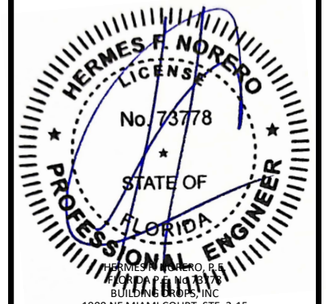

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL47848

DATE: 10.07.2025

DWG. BY:	CHK. BY:
SH	HFN

SCALE: NTS

DWG. #: QWP039

SHEET: 7 REV. A

OF 18

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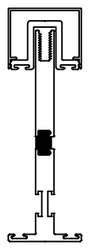
T-MULL M24500: ONE-WAY MULLION ALLOWABLE DESIGN PRESSURE TABLE

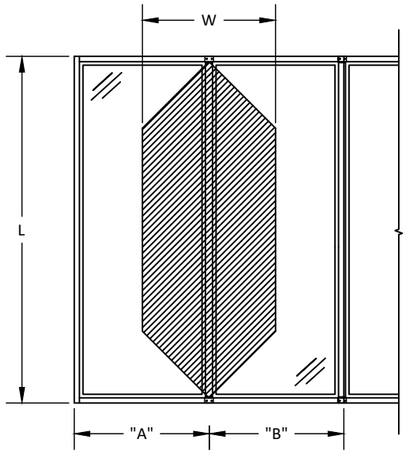
MULLION ALOWABLE DESIGN PRESSURE TABLE (PSF)																						
MULL LENGTH - L (IN.)	TRIBUTARY WIDTH - W (IN.)																					
	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144
24	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	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	138.5	131.3	127.3	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0
66	150.0	150.0	148.2	131.3	120.0	112.5	107.7	105.0	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1
72	150.0	150.0	132.6	116.7	105.9	98.4	93.3	90.0	88.1	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
78	150.0	143.2	120.0	105.0	94.7	87.5	82.4	78.8	76.4	75.0	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
84	150.0	131.3	109.6	95.5	85.7	78.8	73.7	70.0	67.4	65.6	64.6	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
90	150.0	121.2	100.8	87.5	78.3	71.6	66.7	63.0	60.3	58.3	57.0	56.3	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
96	144.8	112.5	93.3	80.8	72.0	65.6	60.9	57.3	54.5	52.5	51.0	50.0	49.4	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
102	135.5	105.0	86.9	75.0	66.7	60.6	56.0	52.5	49.8	47.7	46.2	45.0	44.2	43.8	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
108	127.3	98.4	81.3	70.0	62.1	56.3	51.9	48.5	45.8	43.8	42.1	40.9	40.0	39.4	39.0	38.9	38.9	38.9	38.9	38.9	38.9	38.9
114	120.0	92.6	76.4	65.6	58.1	52.5	48.3	45.0	42.1	39.6	37.7	36.2	35.0	34.2	33.6	33.3	33.1	33.1	33.1	33.1	33.1	33.1
120	113.5	87.5	70.8	59.7	51.9	46.1	41.7	38.3	35.6	33.4	31.7	30.3	29.2	28.4	27.8	27.3	27.1	27.0	27.0	27.0	27.0	27.0
126	100.2	75.6	61.0	51.4	44.6	39.6	35.7	32.7	30.4	28.5	26.9	25.7	24.7	23.9	23.2	22.8	22.5	22.3	22.2	22.2	22.2	22.2
132	87.1	65.7	53.0	44.6	38.6	34.2	30.9	28.2	26.1	24.4	23.1	21.9	21.0	20.3	19.7	19.2	18.9	18.6	18.5	18.4	18.4	18.4
138	76.1	57.4	46.3	38.9	33.7	29.8	26.9	24.5	22.7	21.2	19.9	18.9	18.1	17.4	16.8	16.4	16.0	15.8	15.6	15.5	15.4	15.4
144	67.0	50.5	40.7	34.2	29.6	26.1	23.5	21.5	19.8	18.5	17.4	16.4	15.7	15.0	-	-	-	-	-	-	-	-

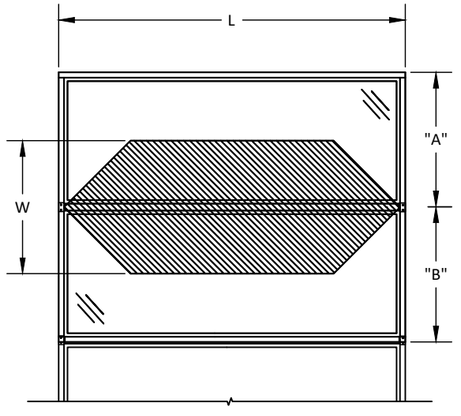
NOTE:

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, 4, AND 5 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 M24500





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

TITLE: *SERIES H4503 MULLIONS (WZ3)(IMPACT)*
T-MULL M24500 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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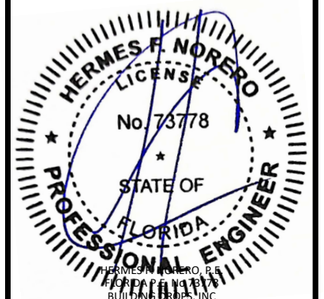

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL47848

DATE: 10.07.2025

DWG. BY: SH | CHK. BY: HFN

SCALE: NTS

DWG. #: QWP039

SHEET: 8 | REV. A

OF 18

8/3/2026 8:51 PM
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T-MULL M24500: 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	143.2	131.3	121.2	112.5	105.0	98.4	92.6	87.5	82.9	78.8	75.0	71.6	68.5	65.6
30	150.0	150.0	150.0	150.0	150.0	150.0	140.0	126.0	114.5	105.0	96.9	90.0	84.0	78.8	74.1	70.0	66.3	63.0	60.0	57.3	54.8	52.5
36	150.0	150.0	150.0	150.0	150.0	131.3	116.7	105.0	95.5	87.5	80.8	75.0	70.0	65.6	61.8	58.3	55.3	52.5	50.0	47.7	45.7	43.8
42	150.0	150.0	150.0	150.0	128.6	112.5	100.0	90.0	81.8	75.0	69.2	64.3	60.0	56.3	52.9	50.0	47.4	45.0	42.9	40.9	39.1	37.5
48	150.0	150.0	150.0	131.3	112.5	98.4	87.5	78.8	71.6	65.6	60.6	56.3	52.5	49.2	46.3	43.8	41.4	39.4	37.5	35.8	34.2	32.8
54	150.0	150.0	140.0	116.7	100.0	87.5	77.8	70.0	63.6	58.3	53.8	50.0	46.7	43.8	41.2	38.9	36.8	35.0	33.3	31.8	30.4	29.2
60	150.0	150.0	126.0	105.0	90.0	78.8	70.0	63.0	57.3	52.5	48.5	45.0	42.0	39.4	37.1	35.0	33.2	31.5	30.0	28.6	27.4	26.3
66	150.0	143.2	114.5	95.5	81.8	71.6	63.6	57.3	52.1	47.7	44.1	40.9	38.2	35.8	33.7	31.8	30.1	28.6	27.3	26.0	24.9	23.9
72	150.0	131.3	105.0	87.5	75.0	65.6	58.3	52.5	47.7	43.8	40.4	37.5	35.0	32.8	30.9	29.2	27.6	26.3	25.0	23.9	22.8	21.9
78	150.0	121.2	96.9	80.8	69.2	60.6	53.8	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
84	150.0	112.5	90.0	75.0	64.3	56.3	50.0	45.0	40.9	37.5	34.6	32.1	30.0	28.1	26.5	25.0	23.7	22.5	21.4	20.5	19.6	18.8
90	140.0	105.0	84.0	70.0	60.0	52.5	46.7	42.0	38.2	35.0	32.3	30.0	28.0	26.3	24.7	23.3	22.1	21.0	20.0	19.1	18.3	17.5
96	131.3	98.4	78.8	65.6	56.3	49.2	43.8	39.4	35.8	32.8	30.3	28.1	26.3	24.6	23.2	21.9	20.7	19.7	18.8	17.9	17.1	16.4
102	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
108	116.7	87.5	70.0	58.3	50.0	43.8	38.9	35.0	31.8	29.2	26.9	25.0	23.3	21.9	20.6	19.4	18.4	17.5	16.7	15.9	15.2	-
114	110.5	82.9	66.3	55.3	47.4	41.4	36.8	33.2	30.1	27.6	25.5	23.7	22.1	20.7	19.5	18.4	17.5	16.6	15.8	15.1	-	-
120	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	-	-	-
126	99.5	74.6	59.7	49.7	42.6	37.3	33.2	29.8	27.1	24.9	23.0	21.3	19.9	18.6	17.6	16.6	15.7	-	-	-	-	-
132	86.5	64.9	51.9	43.3	37.1	32.4	28.8	26.0	23.6	21.6	20.0	18.5	17.3	16.2	15.3	-	-	-	-	-	-	-
138	75.7	56.8	45.4	37.9	32.4	28.4	25.2	22.7	20.6	18.9	17.5	16.2	15.1	-	-	-	-	-	-	-	-	-
144	66.6	50.0	40.0	33.3	28.6	25.0	22.2	20.0	18.2	16.7	15.4	-	-	-	-	-	-	-	-	-	-	-

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.**
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6. **REFER TO SHEETS 3, 4, AND 5 FOR INSTALLATION DETAILS.**
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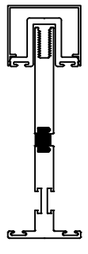
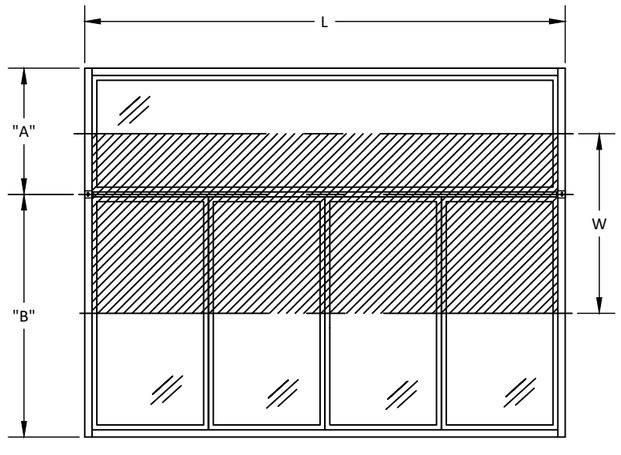
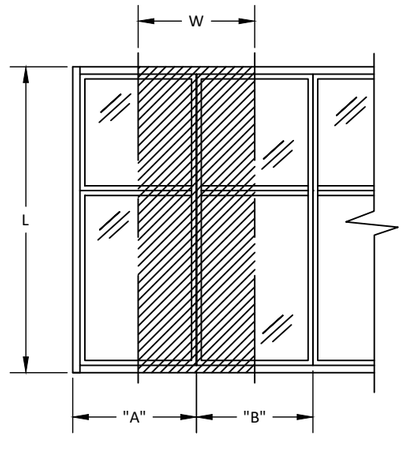


T-MULL M24500





QUAKER COMMERCIAL
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FREEBURG, MO 65035
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TITLE: *SERIES H4503 MULLIONS (WZ3)(IMPACT)*
T-MULL M24500 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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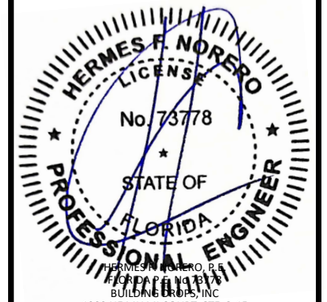

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL47848

DATE: 10.07.2025

DWG. BY:	CHK. BY:
SH	HFN

SCALE: NTS

DWG. #: QWP039

SHEET: 9 REV. A

OF 18

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T-MULL M24497: 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	138.5	131.3	127.3	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0	126.0
66	150.0	150.0	148.2	131.3	120.0	112.5	107.7	105.0	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1
72	150.0	150.0	132.6	116.7	105.9	98.4	93.3	90.0	88.1	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
78	150.0	143.2	120.0	105.0	94.7	87.5	82.4	78.8	76.4	75.0	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
84	150.0	131.3	109.6	95.5	85.7	78.8	73.7	70.0	67.4	65.6	64.6	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
90	150.0	121.2	100.8	87.5	78.3	71.6	66.7	63.0	60.3	58.3	57.0	56.3	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
96	144.8	112.5	93.3	80.8	72.0	65.6	60.9	57.3	54.5	52.5	51.0	50.0	49.4	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
102	135.5	105.0	86.9	75.0	66.7	60.6	56.0	52.5	49.8	47.7	46.2	45.0	44.2	43.8	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
108	127.3	98.4	81.3	70.0	62.1	56.3	51.9	48.5	45.8	43.8	42.1	40.9	40.0	39.4	39.0	38.9	38.9	38.9	38.9	38.9	38.9	38.9
114	120.0	92.6	76.4	65.6	58.1	52.5	48.3	45.0	42.4	40.4	38.8	37.5	36.5	35.8	35.3	35.0	34.9	34.9	34.9	34.9	34.9	34.9
120	113.5	87.5	72.0	61.8	54.5	49.2	45.2	42.0	39.5	37.5	35.9	34.6	33.6	32.8	32.2	31.8	31.6	31.5	31.5	31.5	31.5	31.5
126	107.7	82.9	68.1	58.3	51.4	46.3	42.4	39.4	37.0	35.0	33.4	32.1	31.1	30.3	29.6	29.2	28.8	28.6	28.6	28.6	28.6	28.6
132	102.4	78.8	64.6	55.3	48.6	43.8	40.0	37.1	34.7	32.8	31.3	30.0	29.0	28.1	27.5	26.9	26.5	26.3	26.1	26.0	26.0	26.0
138	97.7	75.0	61.5	52.5	46.2	41.4	37.8	35.0	32.7	30.9	29.4	28.1	27.1	26.3	25.6	25.0	24.6	24.2	24.0	23.9	23.8	23.8
144	93.3	71.6	58.6	50.0	43.9	39.4	35.9	33.2	31.0	29.2	27.7	26.5	25.5	24.6	23.9	23.3	22.9	22.5	22.2	22.0	21.9	21.9

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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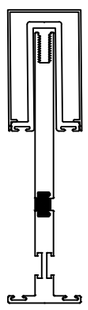
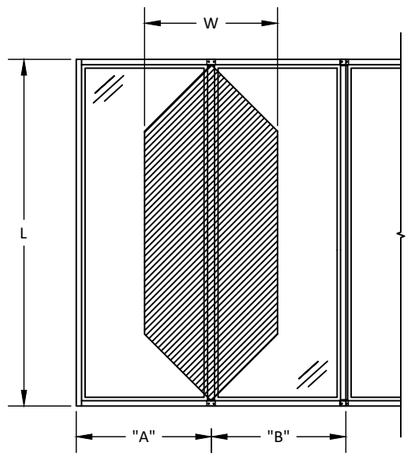
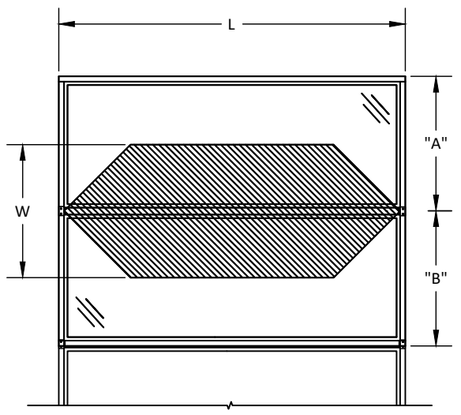


T-MULL M24497





QUAKER COMMERCIAL
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TITLE: *SERIES H4503 MULLIONS (WZ3)(IMPACT)*
T-MULL M24497 ONE-WAY MULLION TABLE

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
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REMARKS	BY	DATE
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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: 10.07.2025

DWG. BY: SH | CHK. BY: HFN

SCALE: NTS

DWG. #: QWP039

SHEET: 10 | REV. A

OF 18

8/3/2026 8:51 PM
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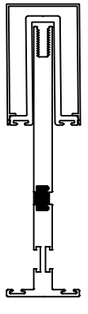
T-MULL M24497: TWO-WAY MULLION ALLOWABLE DESIGN PRESSURE TABLE

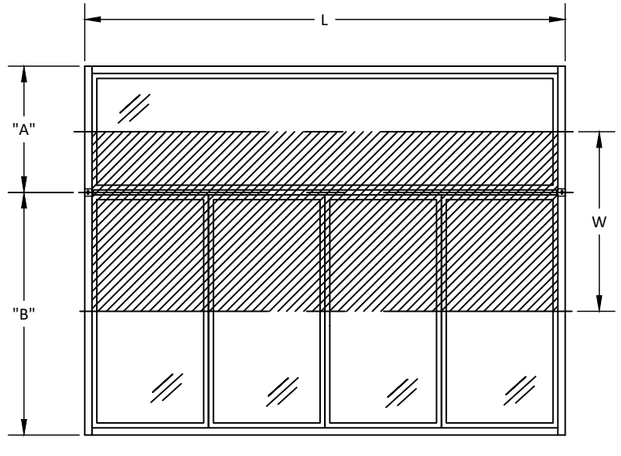
MULLION ALOWABLE DESIGN PRESSURE TABLE (PSF)																						
MULL LENGTH - L (IN.)	TRIBUTARY WIDTH - W (IN.)																					
	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144
24	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	143.2	131.3	121.2	112.5	105.0	98.4	92.6	87.5	82.9	78.8	75.0	71.6	68.5	65.6
30	150.0	150.0	150.0	150.0	150.0	150.0	140.0	126.0	114.5	105.0	96.9	90.0	84.0	78.8	74.1	70.0	66.3	63.0	60.0	57.3	54.8	52.5
36	150.0	150.0	150.0	150.0	150.0	131.3	116.7	105.0	95.5	87.5	80.8	75.0	70.0	65.6	61.8	58.3	55.3	52.5	50.0	47.7	45.7	43.8
42	150.0	150.0	150.0	150.0	128.6	112.5	100.0	90.0	81.8	75.0	69.2	64.3	60.0	56.3	52.9	50.0	47.4	45.0	42.9	40.9	39.1	37.5
48	150.0	150.0	150.0	131.3	112.5	98.4	87.5	78.8	71.6	65.6	60.6	56.3	52.5	49.2	46.3	43.8	41.4	39.4	37.5	35.8	34.2	32.8
54	150.0	150.0	140.0	116.7	100.0	87.5	77.8	70.0	63.6	58.3	53.8	50.0	46.7	43.8	41.2	38.9	36.8	35.0	33.3	31.8	30.4	29.2
60	150.0	150.0	126.0	105.0	90.0	78.8	70.0	63.0	57.3	52.5	48.5	45.0	42.0	39.4	37.1	35.0	33.2	31.5	30.0	28.6	27.4	26.3
66	150.0	143.2	114.5	95.5	81.8	71.6	63.6	57.3	52.1	47.7	44.1	40.9	38.2	35.8	33.7	31.8	30.1	28.6	27.3	26.0	24.9	23.9
72	150.0	131.3	105.0	87.5	75.0	65.6	58.3	52.5	47.7	43.8	40.4	37.5	35.0	32.8	30.9	29.2	27.6	26.3	25.0	23.9	22.8	21.9
78	150.0	121.2	96.9	80.8	69.2	60.6	53.8	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
84	150.0	112.5	90.0	75.0	64.3	56.3	50.0	45.0	40.9	37.5	34.6	32.1	30.0	28.1	26.5	25.0	23.7	22.5	21.4	20.5	19.6	18.8
90	140.0	105.0	84.0	70.0	60.0	52.5	46.7	42.0	38.2	35.0	32.3	30.0	28.0	26.3	24.7	23.3	22.1	21.0	20.0	19.1	18.3	17.5
96	131.3	98.4	78.8	65.6	56.3	49.2	43.8	39.4	35.8	32.8	30.3	28.1	26.3	24.6	23.2	21.9	20.7	19.7	18.8	17.9	17.1	16.4
102	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
108	116.7	87.5	70.0	58.3	50.0	43.8	38.9	35.0	31.8	29.2	26.9	25.0	23.3	21.9	20.6	19.4	18.4	17.5	16.7	15.9	15.2	-
114	110.5	82.9	66.3	55.3	47.4	41.4	36.8	33.2	30.1	27.6	25.5	23.7	22.1	20.7	19.5	18.4	17.5	16.6	15.8	15.1	-	-
120	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	-	-	-
126	100.0	75.0	60.0	50.0	42.9	37.5	33.3	30.0	27.3	25.0	23.1	21.4	20.0	18.8	17.6	16.7	15.8	15.0	-	-	-	-
132	95.5	71.6	57.3	47.7	40.9	35.8	31.8	28.6	26.0	23.9	22.0	20.5	19.1	17.9	16.8	15.9	15.1	-	-	-	-	-
138	91.3	68.5	54.8	45.7	39.1	34.2	30.4	27.4	24.9	22.8	21.1	19.6	18.3	17.1	16.1	15.2	-	-	-	-	-	-
144	87.5	65.6	52.5	43.8	37.5	32.8	29.2	26.3	23.9	21.9	20.2	18.8	17.5	16.4	15.4	-	-	-	-	-	-	-

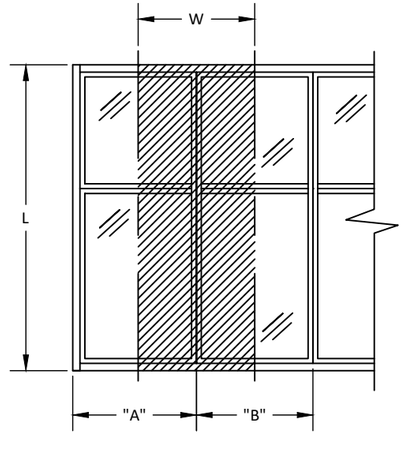
NOTE:

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, 4, AND 5 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 M24497





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

TITLE: *SERIES H4503 MULLIONS (WZ3)(IMPACT)*
T-MULL M24497 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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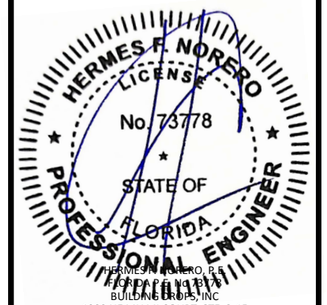

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FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL47848

DATE: 10.07.2025

DWG. BY:	CHK. BY:
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SCALE: NTS

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T-MULL M24628 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	150.0	150.0	150.0	149.5	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2
72	150.0	150.0	150.0	150.0	150.0	140.1	132.9	128.1	125.4	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6
78	150.0	150.0	150.0	149.5	134.9	124.6	117.2	111.6	107.5	105.1	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3	104.3
84	150.0	150.0	146.4	124.8	110.0	99.4	91.7	86.1	82.2	79.6	78.1	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
90	150.0	145.3	118.2	100.5	88.2	79.4	72.8	68.0	64.4	61.9	60.2	59.2	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
96	150.0	119.3	96.9	82.2	71.9	64.5	58.9	54.7	51.6	49.2	47.5	46.4	45.7	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
102	130.9	99.2	80.4	68.0	59.4	53.1	48.4	44.8	42.0	39.9	38.3	37.1	36.3	35.8	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
108	110.1	83.3	67.4	57.0	49.7	44.3	40.2	37.1	34.7	32.8	31.3	30.2	29.4	28.8	28.5	28.4	28.4	28.4	28.4	28.4	28.4	28.4
114	93.5	70.7	57.2	48.2	42.0	37.4	33.9	31.1	29.0	27.3	26.0	25.0	24.2	23.6	23.2	23.0	22.9	22.9	22.9	22.9	22.9	22.9
120	80.1	60.5	48.9	41.2	35.8	31.8	28.8	26.4	24.5	23.0	21.9	20.9	20.2	19.6	19.2	18.9	18.7	18.6	18.6	18.6	18.6	18.6
126	69.1	52.2	42.1	35.5	30.8	27.3	24.7	22.6	20.9	19.6	18.6	17.7	17.0	16.5	16.0	15.7	15.5	15.4	15.3	15.3	15.3	15.3
132	60.1	45.3	36.5	30.7	26.7	23.6	21.3	19.5	18.0	16.9	15.9	15.1	-	-	-	-	-	-	-	-	-	-
138	52.5	39.6	31.9	26.8	23.2	20.6	18.5	16.9	15.6	-	-	-	-	-	-	-	-	-	-	-	-	-
144	46.2	34.8	28.1	23.6	20.4	18.0	16.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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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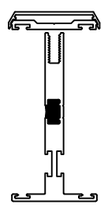
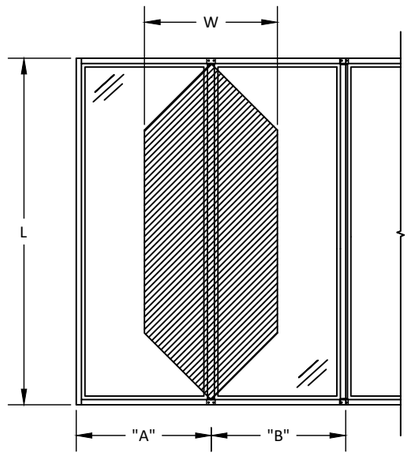
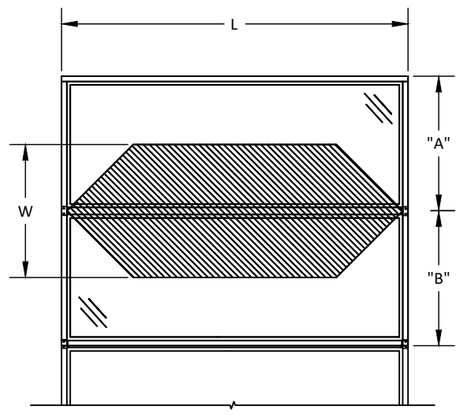


T-MULL M24628





QUAKER COMMERCIAL
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FREEBURG, MO 65035
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TITLE: *SERIES H4503 MULLIONS (WZ3)(IMPACT)*
T-MULL M24628 ONE-WAY MULLION TABLE W/INTERIOR CLIP

PREPARED BY:
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REMARKS	BY	DATE
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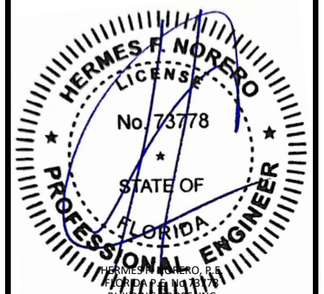

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T-MULL M24628 W/INTERIOR CLIP: TWO-WAY MULLION ALLOWABLE DESIGN PRESSURE TABLE

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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
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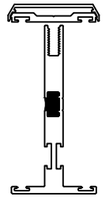
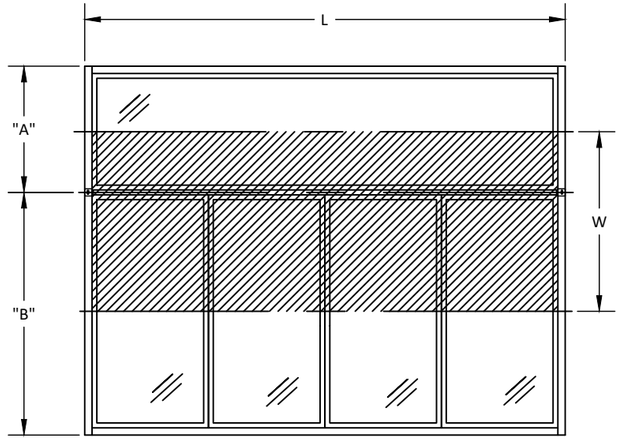
30	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	149.5	138.0	128.1	119.6	112.1	105.5	99.6	94.4	89.7	85.4	81.5	78.0	74.7
36	150.0	150.0	150.0	150.0	150.0	150.0	150.0	149.5	135.9	124.6	115.0	106.8	99.6	93.4	87.9	83.0	78.7	74.7	71.2	67.9	65.0	62.3
42	150.0	150.0	150.0	150.0	150.0	150.0	142.3	128.1	116.5	106.8	98.5	91.5	85.4	80.1	75.4	71.2	67.4	64.1	61.0	58.2	55.7	53.4
48	150.0	150.0	150.0	150.0	150.0	140.1	124.6	112.1	101.9	93.4	86.2	80.1	74.7	70.1	65.9	62.3	59.0	56.1	53.4	51.0	48.7	46.7
54	150.0	150.0	150.0	150.0	142.3	124.6	110.7	99.6	90.6	83.0	76.6	71.2	66.4	62.3	58.6	55.4	52.4	49.8	47.4	45.3	43.3	41.5
60	150.0	150.0	150.0	149.5	128.1	112.1	99.6	89.7	81.5	74.7	69.0	64.1	59.8	56.1	52.8	49.8	47.2	44.8	42.7	40.8	39.0	37.4
66	150.0	150.0	150.0	135.9	116.5	101.9	90.6	81.5	74.1	67.9	62.7	58.2	54.4	51.0	48.0	45.3	42.9	40.8	38.8	37.1	35.4	34.0
72	150.0	150.0	149.5	124.6	106.8	93.4	83.0	74.7	67.9	62.3	57.5	53.4	49.8	46.7	44.0	41.5	39.3	37.4	35.6	34.0	32.5	31.1
78	150.0	150.0	138.0	115.0	98.5	86.2	76.6	69.0	62.7	57.5	53.1	49.3	46.0	43.1	40.6	38.3	36.3	34.5	32.8	31.4	30.0	28.7
84	150.0	150.0	128.1	106.8	91.5	80.1	71.2	64.1	58.2	53.4	49.3	45.8	42.7	40.0	37.7	35.6	33.7	32.0	30.5	29.1	27.9	26.7
90	150.0	141.2	113.0	94.1	80.7	70.6	62.8	56.5	51.3	47.1	43.4	40.3	37.7	35.3	33.2	31.4	29.7	28.2	26.9	25.7	24.6	23.5
96	150.0	116.4	93.1	77.6	66.5	58.2	51.7	46.5	42.3	38.8	35.8	33.2	31.0	29.1	27.4	25.9	24.5	23.3	22.2	21.2	20.2	19.4
102	129.3	97.0	77.6	64.7	55.4	48.5	43.1	38.8	35.3	32.3	29.8	27.7	25.9	24.3	22.8	21.6	20.4	19.4	18.5	17.6	16.9	16.2
108	109.0	81.7	65.4	54.5	46.7	40.9	36.3	32.7	29.7	27.2	25.1	23.3	21.8	20.4	19.2	18.2	17.2	16.3	15.6	-	-	-
114	92.6	69.5	55.6	46.3	39.7	34.7	30.9	27.8	25.3	23.2	21.4	19.9	18.5	17.4	16.3	15.4	-	-	-	-	-	-
120	79.4	59.6	47.7	39.7	34.0	29.8	26.5	23.8	21.7	19.9	18.3	17.0	15.9	-	-	-	-	-	-	-	-	-
126	68.6	51.5	41.2	34.3	29.4	25.7	22.9	20.6	18.7	17.2	15.8	-	-	-	-	-	-	-	-	-	-	-
132	59.7	44.8	35.8	29.8	25.6	22.4	19.9	17.9	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-
138	52.2	39.2	31.3	26.1	22.4	19.6	17.4	15.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
144	46.0	34.5	27.6	23.0	19.7	17.2	15.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

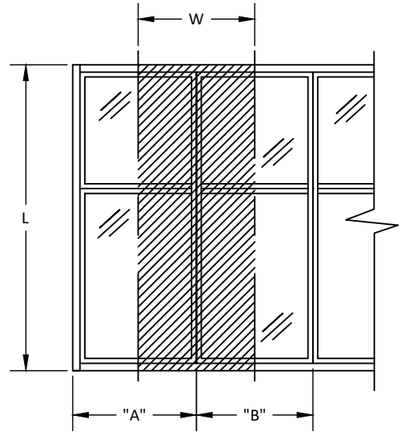
NOTE:

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, 4, AND 5 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 M24628





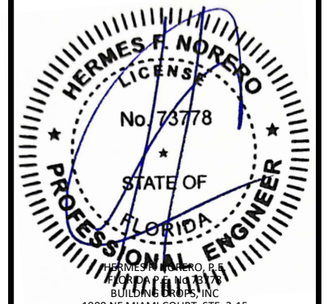
QUAKER COMMERCIAL
PO BOX 128
504 HIGHWAY 63 SOUTH
FREEBURG, MO 65035
PH: (573) 744-5211 FX: (573) 744-5822

TITLE: *SERIES H4503 MULLIONS (WZ3)(IMPACT)*
T-MULL M24628 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, 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: 10.07.2025

DWG. BY:	CHK. BY:
SH	HFN

SCALE: NTS

DWG. #: QWP039

SHEET: 13 OF 18

REV. A

8/3/2026 8:52 PM
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T-MULL M24500 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	150.0	150.0	150.0	149.5	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2
72	150.0	150.0	150.0	150.0	150.0	140.1	132.9	128.1	125.4	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6
78	150.0	150.0	150.0	149.5	134.9	124.6	117.2	112.1	108.7	106.8	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1
84	150.0	150.0	150.0	135.9	122.0	112.1	104.9	99.6	95.9	93.4	92.0	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
90	150.0	150.0	143.5	124.6	111.4	101.9	94.9	89.7	85.8	83.0	81.2	80.1	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
96	150.0	150.0	132.9	115.0	102.5	93.4	85.4	79.3	74.8	71.4	68.9	67.2	66.3	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
102	150.0	143.7	116.5	98.6	86.1	77.0	70.1	64.9	60.9	57.8	55.5	53.8	52.6	52.0	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
108	150.0	120.8	97.8	82.6	72.0	64.2	58.3	53.8	50.3	47.5	45.4	43.8	42.6	41.8	41.3	41.1	41.1	41.1	41.1	41.1	41.1	41.1
114	135.5	102.5	82.9	69.9	60.8	54.2	49.1	45.2	42.1	39.6	37.7	36.2	35.0	34.2	33.6	33.3	33.1	33.1	33.1	33.1	33.1	33.1
120	116.1	87.7	70.8	59.7	51.9	46.1	41.7	38.3	35.6	33.4	31.7	30.3	29.2	28.4	27.8	27.3	27.1	27.0	27.0	27.0	27.0	27.0
126	100.2	75.6	61.0	51.4	44.6	39.6	35.7	32.7	30.4	28.5	26.9	25.7	24.7	23.9	23.2	22.8	22.5	22.3	22.2	22.2	22.2	22.2
132	87.1	65.7	53.0	44.6	38.6	34.2	30.9	28.2	26.1	24.4	23.1	21.9	21.0	20.3	19.7	19.2	18.9	18.6	18.5	18.4	18.4	18.4
138	76.1	57.4	46.3	38.9	33.7	29.8	26.9	24.5	22.7	21.2	19.9	18.9	18.1	17.4	16.8	16.4	16.0	15.8	15.6	15.5	15.4	15.4
144	67.0	50.5	40.7	34.2	29.6	26.1	23.5	21.5	19.8	18.5	17.4	16.4	15.7	15.0	-	-	-	-	-	-	-	-

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.**
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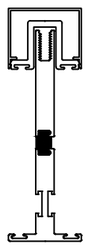
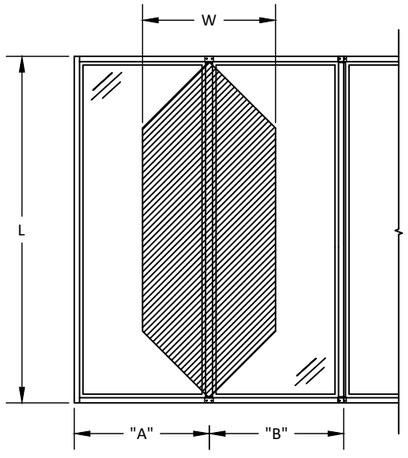
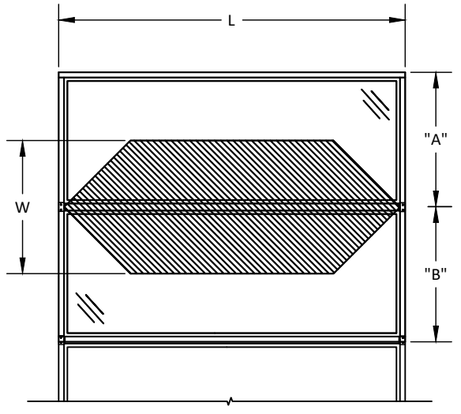


T-MULL M24500





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

TITLE: *SERIES H4503 MULLIONS (WZ3)(IMPACT)*
T-MULL M24500 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
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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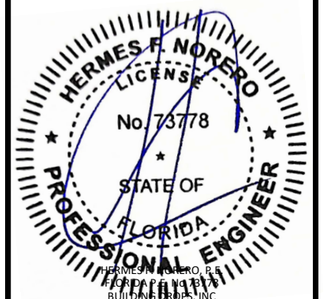

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL47848

DATE: 10.07.2025

DWG. BY:	CHK. BY:
SH	HFN

SCALE: NTS

DWG. #: QWP039

SHEET: 14 REV. A

OF 18

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T-MULL M24500 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	150.0	150.0	149.5	140.1	131.9	124.6	118.0	112.1	106.8	101.9	97.5	93.4
30	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	149.5	138.0	128.1	119.6	112.1	105.5	99.6	94.4	89.7	85.4	81.5	78.0	74.7
36	150.0	150.0	150.0	150.0	150.0	150.0	150.0	149.5	135.9	124.6	115.0	106.8	99.6	93.4	87.9	83.0	78.7	74.7	71.2	67.9	65.0	62.3
42	150.0	150.0	150.0	150.0	150.0	150.0	142.3	128.1	116.5	106.8	98.5	91.5	85.4	80.1	75.4	71.2	67.4	64.1	61.0	58.2	55.7	53.4
48	150.0	150.0	150.0	150.0	150.0	140.1	124.6	112.1	101.9	93.4	86.2	80.1	74.7	70.1	65.9	62.3	59.0	56.1	53.4	51.0	48.7	46.7
54	150.0	150.0	150.0	150.0	142.3	124.6	110.7	99.6	90.6	83.0	76.6	71.2	66.4	62.3	58.6	55.4	52.4	49.8	47.4	45.3	43.3	41.5
60	150.0	150.0	150.0	149.5	128.1	112.1	99.6	89.7	81.5	74.7	69.0	64.1	59.8	56.1	52.8	49.8	47.2	44.8	42.7	40.8	39.0	37.4
66	150.0	150.0	150.0	135.9	116.5	101.9	90.6	81.5	74.1	67.9	62.7	58.2	54.4	51.0	48.0	45.3	42.9	40.8	38.8	37.1	35.4	34.0
72	150.0	150.0	149.5	124.6	106.8	93.4	83.0	74.7	67.9	62.3	57.5	53.4	49.8	46.7	44.0	41.5	39.3	37.4	35.6	34.0	32.5	31.1
78	150.0	150.0	138.0	115.0	98.5	86.2	76.6	69.0	62.7	57.5	53.1	49.3	46.0	43.1	40.6	38.3	36.3	34.5	32.8	31.4	30.0	28.7
84	150.0	150.0	128.1	106.8	91.5	80.1	71.2	64.1	58.2	53.4	49.3	45.8	42.7	40.0	37.7	35.6	33.7	32.0	30.5	29.1	27.9	26.7
90	150.0	149.5	119.6	99.6	85.4	74.7	66.4	59.8	54.4	49.8	46.0	42.7	39.9	37.4	35.2	33.2	31.5	29.9	28.5	27.2	26.0	24.9
96	150.0	140.1	112.1	93.4	80.1	70.1	62.3	56.1	51.0	46.7	43.1	40.0	37.4	35.0	33.0	31.1	29.5	28.0	26.7	25.5	24.4	23.4
102	150.0	131.9	105.5	87.9	75.4	65.9	58.6	52.8	48.0	44.0	40.6	37.7	35.2	33.0	31.0	29.3	27.8	26.4	25.1	24.0	22.9	22.0
108	150.0	118.5	94.8	79.0	67.7	59.2	52.6	47.4	43.1	39.5	36.4	33.8	31.6	29.6	27.9	26.3	24.9	23.7	22.6	21.5	20.6	19.7
114	134.3	100.7	80.6	67.1	57.6	50.4	44.8	40.3	36.6	33.6	31.0	28.8	26.9	25.2	23.7	22.4	21.2	20.1	19.2	18.3	17.5	16.8
120	115.1	86.4	69.1	57.6	49.3	43.2	38.4	34.5	31.4	28.8	26.6	24.7	23.0	21.6	20.3	19.2	18.2	17.3	16.4	15.7	15.0	-
126	99.5	74.6	59.7	49.7	42.6	37.3	33.2	29.8	27.1	24.9	23.0	21.3	19.9	18.6	17.6	16.6	15.7	-	-	-	-	-
132	86.5	64.9	51.9	43.3	37.1	32.4	28.8	26.0	23.6	21.6	20.0	18.5	17.3	16.2	15.3	-	-	-	-	-	-	-
138	75.7	56.8	45.4	37.9	32.4	28.4	25.2	22.7	20.6	18.9	17.5	16.2	15.1	-	-	-	-	-	-	-	-	-
144	66.6	50.0	40.0	33.3	28.6	25.0	22.2	20.0	18.2	16.7	15.4	-	-	-	-	-	-	-	-	-	-	-

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, 4, AND 5 FOR INSTALLATION DETAILS.**
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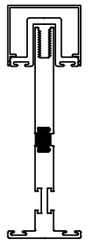
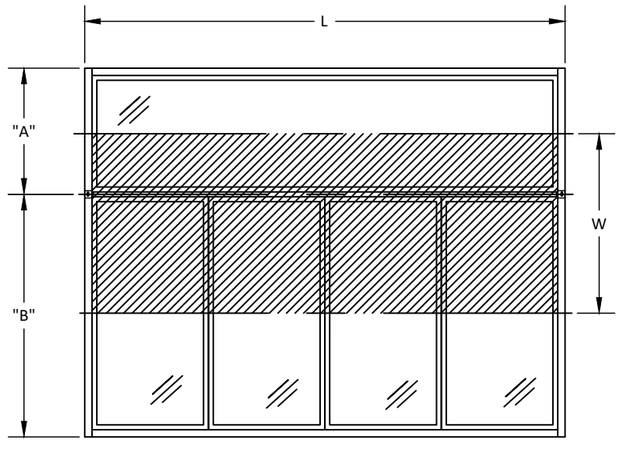
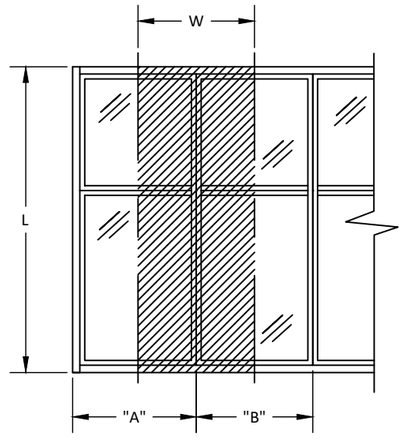


T-MULL M24500





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

TITLE: *SERIES H4503 MULLIONS (WZ3)(IMPACT)*

T-MULL M24500 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

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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: 10.07.2025

DWG. BY:	CHK. BY:
SH	HFN

SCALE: NTS

DWG. #: QWP039

SHEET: 15 OF 18

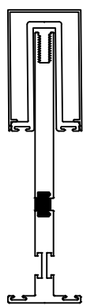
REV. A

T-MULL M24497 W/INTERIOR CLIP: ONE-WAY MULLION ALLOWABLE DESIGN PRESSURE TABLE

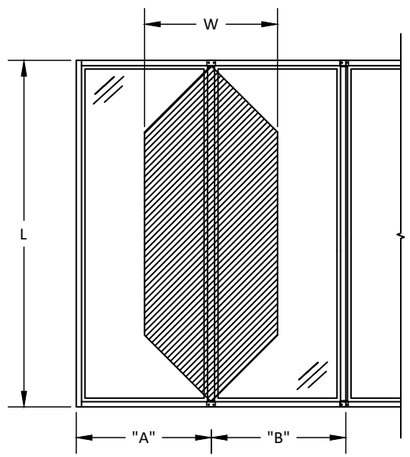
MULLION ALOWABLE DESIGN PRESSURE TABLE (PSF)																						
MULL LENGTH - L (IN.)	TRIBUTARY WIDTH - W (IN.)																					
	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144
24	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	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	150.0	150.0	150.0	149.5	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2	148.2
72	150.0	150.0	150.0	150.0	150.0	140.1	132.9	128.1	125.4	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6
78	150.0	150.0	150.0	149.5	134.9	124.6	117.2	112.1	108.7	106.8	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1
84	150.0	150.0	150.0	135.9	122.0	112.1	104.9	99.6	95.9	93.4	92.0	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
90	150.0	150.0	143.5	124.6	111.4	101.9	94.9	89.7	85.8	83.0	81.2	80.1	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
96	150.0	150.0	132.9	115.0	102.5	93.4	86.6	81.5	77.6	74.7	72.6	71.2	70.3	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
102	150.0	149.5	123.7	106.8	94.9	86.2	79.7	74.7	70.9	67.9	65.7	64.1	62.9	62.3	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
108	150.0	140.1	115.7	99.6	88.4	80.1	73.8	69.0	65.2	62.3	60.0	58.2	56.9	56.1	55.5	55.4	55.4	55.4	55.4	55.4	55.4	55.4
114	150.0	131.9	108.7	93.4	82.7	74.7	68.7	64.1	60.4	57.5	55.2	53.4	52.0	51.0	50.2	49.8	49.7	49.7	49.7	49.7	49.7	49.7
120	150.0	124.6	102.5	87.9	77.6	70.1	64.3	59.8	56.2	53.4	51.1	49.3	47.8	46.7	45.9	45.3	45.0	44.8	44.8	44.8	44.8	44.8
126	150.0	118.0	97.0	83.0	73.2	65.9	60.4	56.1	52.6	49.8	47.6	45.8	44.3	43.1	42.2	41.5	41.0	40.8	40.7	40.7	40.7	40.7
132	145.8	112.1	92.0	78.7	69.3	62.3	56.9	52.8	49.4	46.3	43.6	41.5	39.8	38.4	37.2	36.4	35.7	35.3	35.0	34.9	34.9	34.9
138	139.0	106.8	87.5	73.6	63.7	56.4	50.8	46.4	42.9	40.0	37.7	35.8	34.2	32.9	31.8	31.0	30.3	29.8	29.5	29.3	29.2	29.2
144	126.7	95.5	76.9	64.6	55.9	49.5	44.5	40.6	37.5	34.9	32.8	31.1	29.7	28.5	27.5	26.7	26.0	25.5	25.1	24.9	24.7	24.6

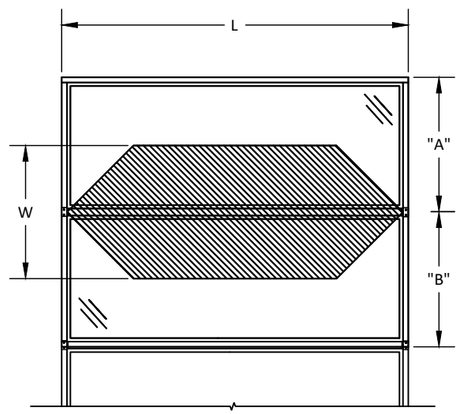
NOTE:

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.**
4. **DEFLECTION HAS BEEN LIMITED TO L/175.**
5. **TRIBUTARY WIDTH = W = (A+B)/2**
6. **REFER TO SHEETS 3, 4, AND 5 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 M24497





QUAKER COMMERCIAL
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FREEBURG, MO 65035
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TITLE: *SERIES H4503 MULLIONS (WZ3)(IMPACT)*
T-MULL M24497 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
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: 10.07.2025

DWG. BY: SH | CHK. BY: HFN

SCALE: NTS

DWG. #: QWP039

SHEET: 16 | REV. A

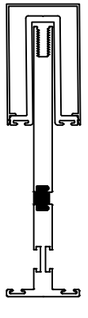
8/3/2026 8:52 PM
c:\users\danielbultrago\building drops, inc\building drops landing - common\projects\2026 code change projects\quaker window products\cc-26-0350 - 2026 code change\dwgs\fl47848\qwp039 - a.dwg

T-MULL M24497 W/INTERIOR CLIP: TWO-WAY MULLION ALLOWABLE DESIGN PRESSURE TABLE

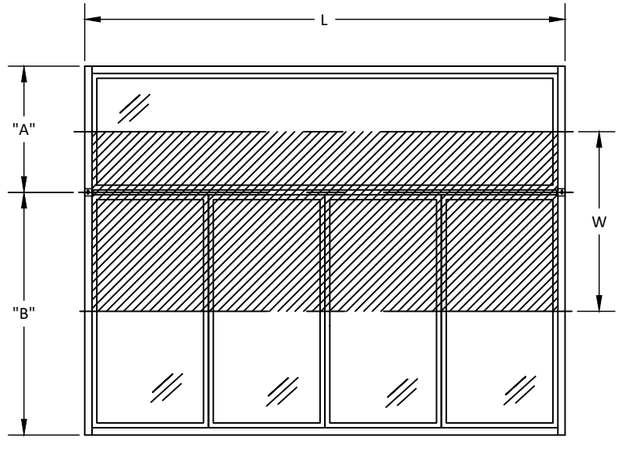
MULLION ALOWABLE DESIGN PRESSURE TABLE (PSF)																						
MULL LENGTH - L (IN.)	TRIBUTARY WIDTH - W (IN.)																					
	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144
24	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	149.5	140.1	131.9	124.6	118.0	112.1	106.8	101.9	97.5	93.4
30	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	149.5	138.0	128.1	119.6	112.1	105.5	99.6	94.4	89.7	85.4	81.5	78.0	74.7
36	150.0	150.0	150.0	150.0	150.0	150.0	150.0	149.5	135.9	124.6	115.0	106.8	99.6	93.4	87.9	83.0	78.7	74.7	71.2	67.9	65.0	62.3
42	150.0	150.0	150.0	150.0	150.0	150.0	142.3	128.1	116.5	106.8	98.5	91.5	85.4	80.1	75.4	71.2	67.4	64.1	61.0	58.2	55.7	53.4
48	150.0	150.0	150.0	150.0	150.0	140.1	124.6	112.1	101.9	93.4	86.2	80.1	74.7	70.1	65.9	62.3	59.0	56.1	53.4	51.0	48.7	46.7
54	150.0	150.0	150.0	150.0	142.3	124.6	110.7	99.6	90.6	83.0	76.6	71.2	66.4	62.3	58.6	55.4	52.4	49.8	47.4	45.3	43.3	41.5
60	150.0	150.0	150.0	149.5	128.1	112.1	99.6	89.7	81.5	74.7	69.0	64.1	59.8	56.1	52.8	49.8	47.2	44.8	42.7	40.8	39.0	37.4
66	150.0	150.0	150.0	135.9	116.5	101.9	90.6	81.5	74.1	67.9	62.7	58.2	54.4	51.0	48.0	45.3	42.9	40.8	38.8	37.1	35.4	34.0
72	150.0	150.0	149.5	124.6	106.8	93.4	83.0	74.7	67.9	62.3	57.5	53.4	49.8	46.7	44.0	41.5	39.3	37.4	35.6	34.0	32.5	31.1
78	150.0	150.0	138.0	115.0	98.5	86.2	76.6	69.0	62.7	57.5	53.1	49.3	46.0	43.1	40.6	38.3	36.3	34.5	32.8	31.4	30.0	28.7
84	150.0	150.0	128.1	106.8	91.5	80.1	71.2	64.1	58.2	53.4	49.3	45.8	42.7	40.0	37.7	35.6	33.7	32.0	30.5	29.1	27.9	26.7
90	150.0	149.5	119.6	99.6	85.4	74.7	66.4	59.8	54.4	49.8	46.0	42.7	39.9	37.4	35.2	33.2	31.5	29.9	28.5	27.2	26.0	24.9
96	150.0	140.1	112.1	93.4	80.1	70.1	62.3	56.1	51.0	46.7	43.1	40.0	37.4	35.0	33.0	31.1	29.5	28.0	26.7	25.5	24.4	23.4
102	150.0	131.9	105.5	87.9	75.4	65.9	58.6	52.8	48.0	44.0	40.6	37.7	35.2	33.0	31.0	29.3	27.8	26.4	25.1	24.0	22.9	22.0
108	150.0	124.6	99.6	83.0	71.2	62.3	55.4	49.8	45.3	41.5	38.3	35.6	33.2	31.1	29.3	27.7	26.2	24.9	23.7	22.6	21.7	20.8
114	150.0	118.0	94.4	78.7	67.4	59.0	52.4	47.2	42.9	39.3	36.3	33.7	31.5	29.5	27.8	26.2	24.8	23.6	22.5	21.5	20.5	19.7
120	149.5	112.1	89.7	74.7	64.1	56.1	49.8	44.8	40.8	37.4	34.5	32.0	29.9	28.0	26.4	24.9	23.6	22.4	21.4	20.4	19.5	18.7
126	142.3	106.8	85.4	71.2	61.0	53.4	47.4	42.7	38.8	35.6	32.8	30.5	28.5	26.7	25.1	23.7	22.5	21.4	20.3	19.4	18.6	17.8
132	135.9	101.9	81.5	67.9	58.2	51.0	45.3	40.8	37.1	34.0	31.4	29.1	27.2	25.5	24.0	22.6	21.5	20.4	19.4	18.5	17.7	17.0
138	130.0	97.5	78.0	65.0	55.7	48.7	43.3	39.0	35.4	32.5	30.0	27.9	26.0	24.4	22.9	21.7	20.5	19.5	18.6	17.7	17.0	16.2
144	124.6	93.4	74.7	62.3	53.4	46.7	41.5	37.4	34.0	31.1	28.7	26.7	24.9	23.4	22.0	20.8	19.7	18.7	17.8	17.0	16.2	15.6

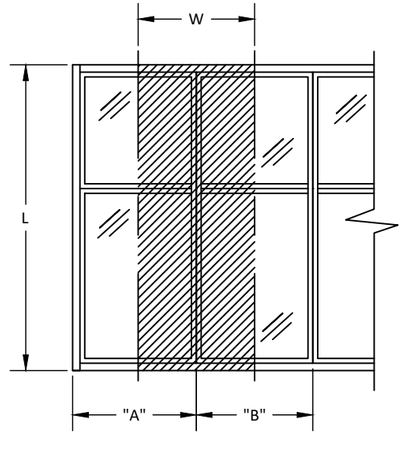
NOTE:

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, 4, AND 5 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 M24497





QUAKER COMMERCIAL
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FREEBURG, MO 65035
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TITLE: *SERIES H4503 MULLIONS (WZ3)(IMPACT)*
T-MULL M24497 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
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REMARKS	BY	DATE
ANCHOR REVISIONS	SH	05/26
2026 FBC UPDATE	DB	08/26

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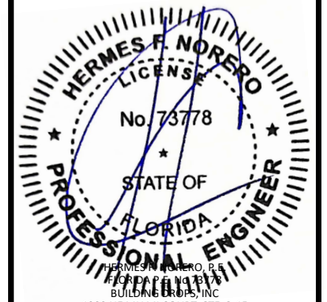


HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL47848

DATE: 10.07.2025

DWG. BY:	CHK. BY:
SH	HFN

SCALE: NTS

DWG. #: QWP039

SHEET: 17 OF 18

REV. A

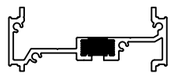
8/3/2026 8:52 PM
c:\users\danielbultrago\building drops, inc\building drops landing - common\projects\2026 code change projects\quaker window products\cc-26-0350 - 2026 code change\dwgs\fl47848\qwp039 - a.dwg

STACK MULL M23723: ONE-WAY MULLION ALLOWABLE DESIGN PRESSURE TABLE

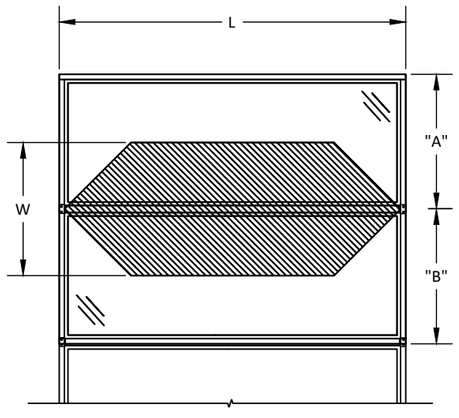
MULLION ALOWABLE DESIGN PRESSURE TABLE (PSF)																						
MULL LENGTH - L (IN.)	TRIBUTARY WIDTH - W (IN.)																					
	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144
24	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	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	143.0	131.0	124.8	122.9	122.9	122.9	122.9	122.9	122.9	122.9	122.9	122.9	122.9	122.9	122.9	122.9	122.9	122.9	122.9	122.9
54	150.0	140.4	121.0	109.2	102.1	98.3	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
60	150.0	122.9	104.8	93.6	86.4	81.9	79.4	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
66	137.9	109.2	92.5	81.9	74.9	70.2	67.2	65.5	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
72	124.8	98.3	82.8	72.8	66.1	61.4	58.2	56.2	55.0	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
78	113.9	89.3	74.9	65.5	59.1	54.6	51.4	49.1	47.7	46.8	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
84	104.8	81.9	68.4	59.6	53.5	49.1	46.0	43.7	42.0	41.0	40.3	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
90	97.1	75.6	62.9	54.6	48.8	44.7	41.6	39.3	37.6	36.4	35.6	35.1	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
96	90.4	70.2	58.2	50.4	44.9	41.0	38.0	35.7	34.0	32.8	31.8	31.2	30.8	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
102	84.5	65.5	54.2	46.8	41.6	37.3	34.0	31.4	29.5	28.0	26.9	26.0	25.5	25.2	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
108	77.3	58.5	47.3	40.0	34.9	31.1	28.2	26.1	24.3	23.0	22.0	21.2	20.6	20.2	20.0	19.9	19.9	19.9	19.9	19.9	19.9	19.9
114	65.6	49.6	40.1	33.9	29.5	26.2	23.8	21.9	20.4	19.2	18.3	17.5	17.0	16.6	16.3	16.1	16.0	16.0	16.0	16.0	16.0	16.0
120	56.2	42.5	34.3	28.9	25.1	22.3	20.2	18.5	17.2	16.2	15.3	-	-	-	-	-	-	-	-	-	-	-
126	48.5	36.6	29.6	24.9	21.6	19.2	17.3	15.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
132	42.1	31.8	25.6	21.6	18.7	16.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
138	36.9	27.8	22.4	18.8	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
144	32.4	24.4	19.7	16.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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, 4, AND 5 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.**



STACK MULL M23723



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

TITLE: *SERIES H4503 MULLIONS (WZ3)(IMPACT)*
STACK MULL M23723 ONE-WAY MULLION TABLE

PREPARED BY: BUILDING DROPS, INC.
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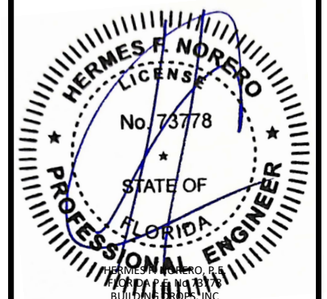
WEB: www.buildingdrops.com

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.



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: 10.07.2025

DWG. BY: SH | CHK. BY: HFN

SCALE: NTS

DWG. #: QWP039

SHEET: 18 | REV. A

8/3/2026 8:52 PM
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