Part 1 - GENERAL

Scope

Work included: Furnish materials, labour and equipment for the complete installation of aluminum entrance and window frames as detailed on the drawings and specified herein.

Work Not Included: Structural support of framing, interior building trims, and as specified by drawings and customer requirements per contract or purchase agreement.

Quality Assurance

Drawings and specification for work in this section are based upon Metro "HP2025" Series framing system.

Design & Performance

HP2025 Series Curtainwall framing system fully complies with AAMA/WDMA/CSA 101/I.S.2/A440-08 Standard/Specification for windows, doors, and unit skylights. See detail test report included in this section.

Maintenance and Warranty

Upon request, Metro will provide instructions for proper cleaning and maintenance. Metro Glass Metal Products come with a two year warranty which shall begin from the day the product is shipped or from substantial completion of the installation. The warranty covers materials and workmanship as specified by drawings and customer requirements per contract or purchase agreement.

Part 2 - PRODUCTS

Materials

All materials to meet design and material specifications as applicable. Extruded aluminum is 6063 T5 alloy and temper. Any defects impairing strength, durability or appearance are not acceptable. Fasteners shall be of sufficient size and strength and made of corrosion-resistant compatible materials. Glazing gaskets shall be Polishim II Tape a 100% solid, highly adhesive and elastic, cross-linked butyl preformed tape with a continuous integral EPDM shim and extruded black santoprene designed and sized to perform their intended function.

Fabrication

Frame assembly to provide accurately fit tight hairline joints only. Extruded profiles to be of sizes and profiles indicated in the contract or the purchase agreement. Corner joints shall be secured with concealed shear blocks with fastening by means of anticorrosive steel screws, and as specified by drawings and customer requirements per contract or purchase agreement.

Finish - Anodized 6063 Material Code Identification

Exposed surfaces shall be finished as specified by customer:

Satin Clear 14	AA-M12C22A41
Satin Medium Bronze 30	AA-M12C22A44
Satin Black 29	AA-M12C22A44

Powdercoated and various other finishes (including shades of Bronze) available upon request.

Installation

Framing to be installed plumb, level and square and glazed by an experienced crew in prepared openings in accordance to the manufacturers instructions and approved shop drawings, and as specified by drawings and customer requirements per contract or purchase agreement.

Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

1500 Brigantine Drive
Coquitlam, BC, V3K 7C1

Telephone: 604-520-3321
604-524-9186
www.intertek.com/building

TEST REPORT FOR METRO GLASS & ALUMINUM PRODUCTS LTD.
Report No.: 104394266COQ-001A
Date: 01/04/21

SECTION 2
SUMMARY OF TEST RESULTS

A summary of results are as indicated in the table below:

Evaluation Property	Results
Air Leakage Resistance @ 75 Pa (1.6 psf)	US – Pass; Can – Fixed
Air Leakage Resistance @ 300 Pa (6.3 psf)	US – Pass; Can – Fixed
Water Penetration Resistance (Static & Cyclic)	720 Pa (15.0 psf)
Uniform Load – Deflection	3840 Pa (80.2 psf)
Uniform Load – Structural	5760 Pa (120.3 psf)
Forced Entry Resistance	Gr.40

Details of the tested results can be found in Section 7 of this report.

Primary and Secondary Designations are as indicated below:

HP2025 Series Fixed Combination Window
Class CW – PG80 – Size Tested 2000x 2000 mm (79 x 79 in) – Type FW

Secondary Designator
Positive Design Pressure = 3840 Pa (80.1 psf)
Negative Design Pressure = 3840 Pa (80.1 psf)
Water Penetration Resistance = 720 Pa (15.0 psf)
Canadian Air Leakage Resistance = Fixed

*HP2025 Series Fixed Combination Window had met/exceeded the minimum gateway performance requirements of Class CW. Refer to deviation within Section 5.9 of this report or for details about the larger specimen refer to Intertek Report No. 102654748OQ-001A.

Mullion Designation is as indicated below:

Aluminum Mullion:
Class CW – PG80 – MA: Size Tested 2000 mm span / 4.0 m2
Class CW – PG80 – MA: Size Tested 78.7 in. span / 43.1 ft2

SECTION 3
TEST METHOD(S)

The specimen was tested and evaluated in accordance with the following:

- AAMA/WDMA/CSA 101/I.S.2/A440-17, Standard/Specification for windows, doors, and unit skylights
- CSA A440S1-19, Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, NAFS – North American Fenestration Standard/Specification for windows, doors, and skylights

More than 50 Years of Manufacturing Innovative Aluminum Doors, Frames, Curtain Walls, Windows and Vents

Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

1500 Brigantine Drive
Coquitlam, BC, V3K 7C1

Telephone: 604-520-3321
604-524-9186
www.intertek.com/building

TEST REPORT FOR METRO GLASS & ALUMINUM PRODUCTS LTD.
Report No.: 104394266COQ-001A
Date: 01/04/21

SECTION 7
TEST RESULTS

AIR LEAKAGE RESISTANCE

Air test data is indicated in the following table:

Property	Area m2 (ft2)	Infiltration Rate L/s*m2 (cfm/ft2)	Exfiltration Rate L/s*m2 (cfm/ft2)	Compliance US (CAN)
Overall Assembly @ 75 Pa	4.00 (43.06)	0.00 (0.00)	0.00 (0.00)	Pass (Fixed)
Overall Assembly @ 300 Pa		0.01 (0.00)	0.01 (0.00)	Pass (Fixed)
Allowable Leakage Rates				
Maximum allowable air leakage rate (US):			1.5 L/s*m2, 0.3 cfm/ft2	
Maximum allowable air leakage rate (CAN – Fixed):			0.2 L/s*m2, 0.04 cfm/ft2	

The overall system met the US and Canadian performance requirements as reported above when evaluated under NAFS-17 and A440S1-19.

CYCLIC WATER PENETRATION RESISTANCE

During the 24-minute test period, using a pressure differential of 720 Pa (15.0 psf), there was no water leakage observed. The system met the (CAN) PG100 Water Penetration Resistance performance requirements under NAFS-17 and A440S1-19.

STATIC WATER PENETRATION RESISTANCE

During the 15-minute test period, using a pressure differential of 720 Pa (15.0 psf), there was no water leakage observed. The system met the (CAN) PG100 Water Penetration Resistance performance requirements under NAFS-17 and A440S1-19.

UNIFORM LOAD – DEFLECTION & STRUCTURAL

Fixed Combination Uniform Load Structural data:
Mullion span, L = 2000 mm (78.74")
Deflection limit, L/175 = 11.43 mm (0.45”)
Residual deflection limit, L*0.3% = 6.00 mm (0.24")

Test Pressure, Pa (psf)	Deflection Measurements, mm (in.)				Compliance
	Positive		Negative		
	Deflection	Residual	Deflection	Residual	
3840 (80.2)	9.36 (0.37)	0.78 (0.03)	8.87 (0.35)	0.68 (0.03)	Pass DP80
5760 (120.3)	n/a	0.90 (0.04)	n/a	1.03 (0.04)	

After the test loads were released, the specimen was inspected and there was found to be no failure or permanent deformation of any part of the window system that would cause any operational malfunction. The system met the overall DP80 Uniform Load performance requirements under NAFS-17.

LAYTON CONSULTING LTD. British Columbia ● Alberta ● Saskatchewan ● Ontario NWT ● Washington	Project: Metro HP2025 CW U-value Report				Project No: 1256-15562	
	Sections: Metro HP2025 Curtainwall with Pressure Plate				Client: Metro Glass	
	Calc. by: TW	Date: Mar, 2020	Chk'd by: IC	Date: Mar, 2020	App'd by:	Page: 7

RESULTS

The windows are modelled in accordance to NFRC and the results are summarized in Table 2:

Table 2: Thermal Modelling Result

Frame Type	U-Value (W/m^2-K)	U-Value (Btu/h-ft^2-°F)	SHGC	VT
HP2025 2-7/8" PP	1.769	0.312	0.356	0.634
HP2025 3-5/8" PP	1.786	0.315	0.356	0.634
HP2025 5-1/4" PP	1.811	0.319	0.357	0.634

Insulated Glass Unit:

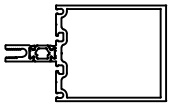
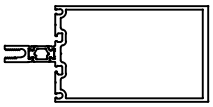
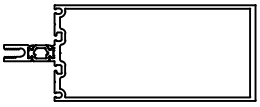
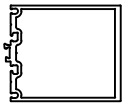
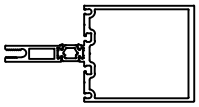
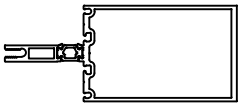
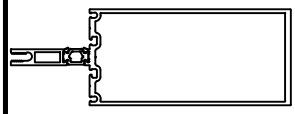
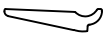
G1: SB60 Clear_6.VTA / 12.7mm 90% Ar / CLEAR_6.DAT

CONCLUSION

The results of the NFRC U-value calculation for the fenestration systems described above show that for the Standard NFRC sizes, the Metro 2025 Curtainwall with a pressure plate obtained a U-value of 1.769 to 1.811 W/m^2·K depending on the depth of the back-section. The Solar Heat Gain Coefficient (SHGC) was calculated to be 0.36 and the Visible Transmittance was calculated to be 0.63.

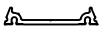
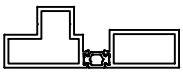
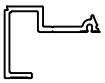
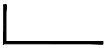
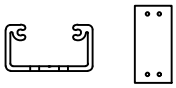
METRO GLASS PRODUCTS LTD.

HP2025 CURTAIN WALL PARTS

CROSS SECTION	PART #	DESCRIPTION	STOCK LENGTH	CLEAR ANODIZED	BRONZE ANODIZED	BLACK ANODIZED
	HP2025-1	2 1/2" x 2 7/8" BACK SECTION (63.50mm x 73mm)	7.315 m	✓	✓	✓
	HP2025-2	2 1/2" x 4" BACK SECTION (63.50mm x 102mm)	7.315 m	✓	✓	✓
	HP2025-3	2 1/2" x 5 1/4" BACK SECTION (63.50mm x 133.5mm)	7.315 m	✓	✓	✓
	HP2025-SSG1	2 1/2" x 2 7/8" BACK SECTION (63.50mm x 73mm)	7.315 m	✓	✓	✓
	HP2025-SSG2	2 1/2" x 4" BACK SECTION (63.50mm x 102mm)	7.315 m	✓	✓	✓
	HP2025-SSG3	2 1/2" x 5 1/4" BACK SECTION (63.50mm x 133.5mm)	7.315 m	✓	✓	✓
	HP2025-1TRG	2 1/2" x 2 7/8" BACK SECTION (63.50mm x 73mm)	7.315 m	✓	✓	✓
	HP2025-2TRG	2 1/2" x 4" BACK SECTION (63.50mm x 102mm)	7.315 m	✓	✓	✓
	HP2025-3TRG	2 1/2" x 5 1/4" BACK SECTION (63.50mm x 133.5mm)	7.315 m	✓	✓	✓
	HP2025 -SCSU	CAPTURED SILL CHAIR ON SU	4.6 m	MILL FINISH ALUMINUM ALLOY (cut to 100mm PIECES)		
	HP2025-SCTG	CAPTURED SILL CHAIR ON TG	4.6 m			
	HP2025 SSG-SCSU	SEALED UNIT SILL CHAIR ON SSG	4.6 m			
	HP2025 SSG-SCTG	TRIPLE GLAZED SILL CHAIR ON SSG	4.6 m			

METRO GLASS PRODUCTS LTD.

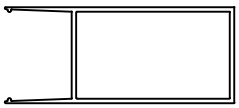
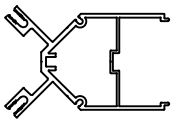
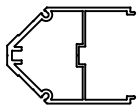
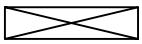
HP2025 CURTAIN WALL PARTS

CROSS SECTION	PART #	DESCRIPTION	STOCK LENGTH	CLEAR ANODIZED	BRONZE ANODIZED	BLACK ANODIZED
	2.5-C	3/4" X 2 1/2" SNAP CAP (19mm X 63.5mm)	7.315 m	✓	✓	✓
	2.5-PP	PRE PUNCHED PRESSURE PLATE	7.315 m	MILL FINISH		
	D24	DOOR STOP BASE	4.6 m	✓		
	D26	1/2" DOOR STOP COVER	4.6 m	✓	✓	✓
	D27	5/8" DOOR STOP COVER	4.6 m	✓	✓	✓
	27078	DOOR STOP COVER BULB SEAL	150 m ROLLS	SILICONE		
	HP-SDA	25mm SURFACE DOOR ADAPTOR	4.6 m	✓	✓	✓
	TR 2543E	1/4" ROLL-IN GLAZING GASKET	150 m ROLLS	SILICONE		
	HP25-FDAC	FLUSH DOOR ADAPTOR CAP	4.6 m	✓	✓	✓
	HP25-FDA	FLUSH DOOR ADAPTOR BASE	4.6 m	✓	✓	✓
	C28	3.32 mm ALUMINUM INSTALLATION ANGLE	7.315 m	MILL FINISH		
	MG1	PRE PUNCHED 25mm x 65mm INSTALLATION ANGLE	3.05 m	14ga GALVANIZED		
	MG2	PRE PUNCHED 31mm x 90mm INSTALLATION ANGLE	3.05 m	14ga GALVANIZED		
	HP2025-SB1 HP2025-SB2 HP2025-SB3	PREP SHEAR BLOCK	4.6 m	MILL FINISH (CUT TO VARIABLE LENGTHS)		

Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

METRO GLASS PRODUCTS LTD.

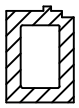
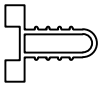
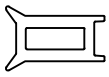
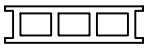
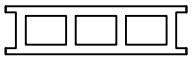
HP2025 CURTAIN WALL PARTS

CROSS SECTION	PART #	DESCRIPTION	STOCK LENGTH	CLEAR ANODIZED	BRONZE ANODIZED	BLACK ANODIZED
	2.5-PPX	PRE PUNCHED PRESSURE PLATE EXTENDED	7.315 m	MILL FINISH		
	2.5C6	2 1/2" x 6" CAP (63.50mm x 152mm)	7.315 m	✓	✓	✓
	2.5-CCA	90° CAPTURED CORNER ADAPTOR	7.315 m	✓	✓	✓
	2.5-SSGCA	90° SSG CORNER ADAPTOR	7.315 m	✓	✓	✓
1/4" - 20 x 11/16"		MACHINE SCREWS	100 pcs	PLATED		
	1/4" x 1 1/8"	4" SETTING BLOCK	EACH	EPDM		
N3015	3M	4" 6" VAPOR BARRIER	22.8 m ROLLS	POLY		
	TREMCO	1/8" POLY SHIM GLAZING TAPE	12.1 m ROLLS	POLY		

Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

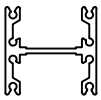
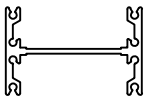
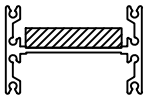
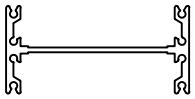
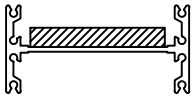
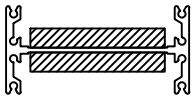
METRO GLASS PRODUCTS LTD.

HP2025 CURTAIN WALL PARTS

CROSS SECTION	PART #	DESCRIPTION	STOCK LENGTH	FINISH
	DAS #1	1/8" DOOR ADAPTOR SPACER	3.2 m	RIDGID BLACK PVC
	DAS #2	1/4" DOOR ADAPTOR SPACER	3.2 m	RIDGID BLACK PVC
	DAS #3	1" DOOR ADAPTOR SPACER FOR TRIPLE GLAZED SYSTEM	3.2 m	RIDGID BLACK PVC
	Q183H	INTERIOR GLAZING GASKET	125 m ROLLS	SILICONE BLACK - 60 DUROMETER
	EP1752H	EXTERIOR GLAZING GASKET	100 m ROLLS	EPDM BLACK - 70 DUROMETER
	EP1846H	THERMAL BREAK	3.65 m	EPDM BLACK - 70 DUROMETER
	EP1753H	CORNER BLOCK 36.5mm HEIGHT	EACH	EPDM BLACK - 70 DUROMETER
	EP1753H-TRG	TRG CORNER BLOCK 52mm HEIGHT	EACH	EPDM BLACK - 70 DUROMETER
	EP717N	SSG CORNER BLOCK 36.5mm HEIGHT	EACH	EPDM BLACK - 70 DUROMETER
	EP717N-TRG	SSG TRG CORNER BLOCK 55.2mm HEIGHT	EACH	EPDM BLACK - 70 DUROMETER
	AR 22	7/8" PVC ANTI-ROTATION	3.65 m	COLOR CODE BLUE
	AR 27	1 1/16" PVC ANTI-ROTATION	3.65 m	COLOR CODE WHITE
	AR 29	1 1/8" PVC ANTI-ROTATION	3.65 m	COLOR CODE BLACK
	AR 30	1 3/16" PVC ANTI-ROTATION	3.65 m	COLOR CODE BROWN
	AR 32	1 1/4" PVC ANTI-ROTATION	3.65 m	COLOR CODE GREY
	AR 46	1 13/16" PVC ANTI-ROTATION	3.65 m	COLOR CODE GREEN
	AR 49	1 15/16" PVC ANTI-ROTATION	3.65 m	COLOR CODE PINK

Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

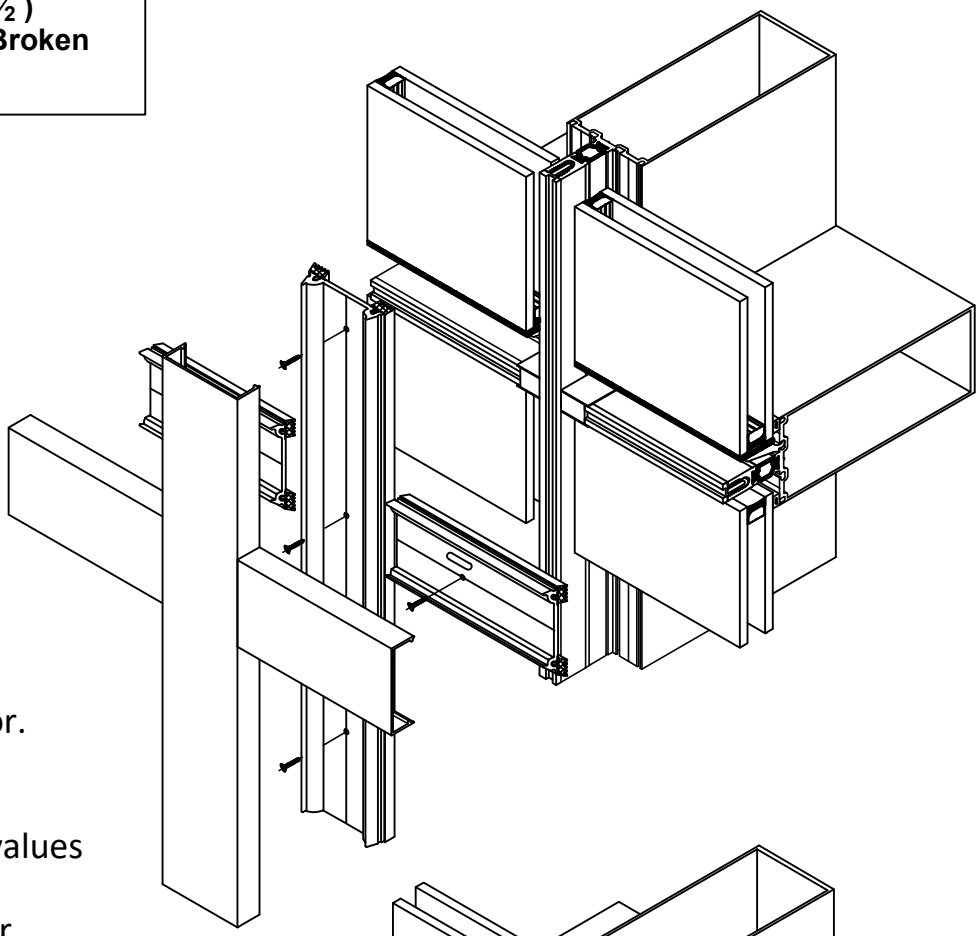
HP2025 CURTAIN WALL PARTS

CROSS SECTION	PART #	DESCRIPTION	STOCK LENGTH	FINISH
	HP2025-1-S	SLIP/REINFORCEMENT ANCHOR (FOR 2 7/8" B.S.)	7.315 m	MILL FINISH ALUMINUM ALLOY
	HP2025-2-S	SLIP/REINFORCEMENT ANCHOR (FOR 4" B.S.)	7.315 m	MILL FINISH ALUMINUM ALLOY
	HP2025-2-S1	SLIP/REINFORCEMENT ANCHOR ILLUSTRATES 1/2" x 2 1/2" STEEL FLAT BAR 1 SIDE		
	HP2025-2-S2	SLIP/REINFORCEMENT ANCHOR ILLUSTRATES 1/2" x 2 1/2" STEEL FLAT BAR BOTH SIDES		
	HP2025-3-S	SLIP/REINFORCEMENT ANCHOR (FOR 5 1/4" B.S.)	7.315 m	MILL FINISH ALUMINUM ALLOY
	HP2025-3-S1	SLIP/REINFORCEMENT ANCHOR ILLUSTRATES 1/2" x 3 1/2" STEEL FLAT BAR 1 SIDE		
	HP2025-3-S2	SLIP/REINFORCEMENT ANCHOR ILLUSTRATES 1/2" x 3 1/2" STEEL FLAT BAR BOTH SIDES		

Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

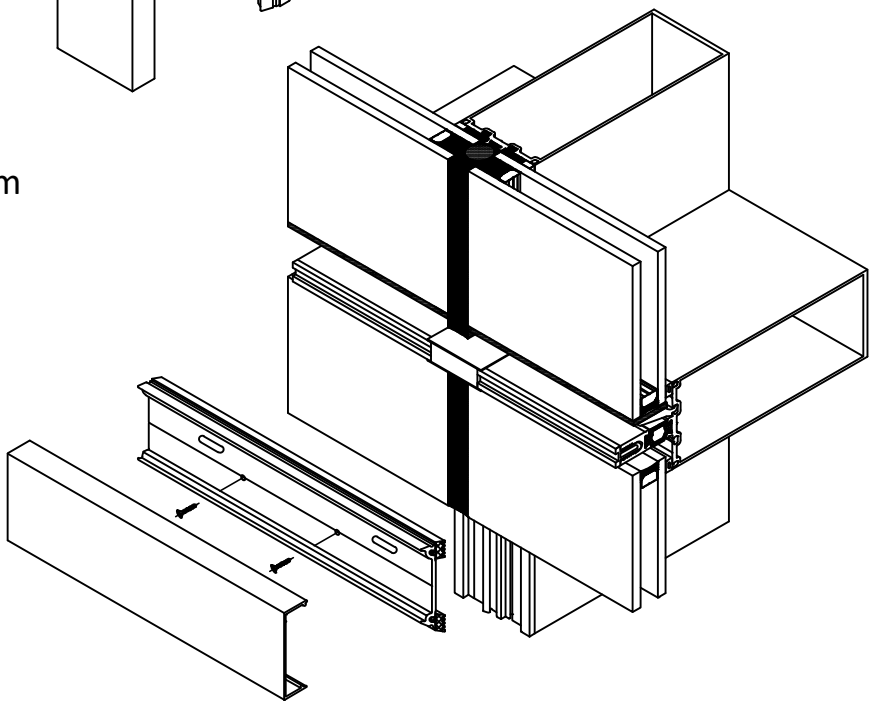
HP2025 CURTAIN WALL

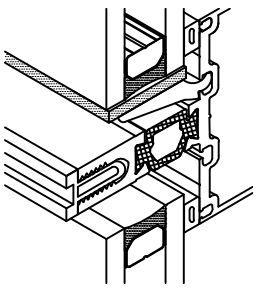
Metro HP2025 Series - 63.5mm (2 ½)
Sight Line Profile True Thermally Broken
Curtain Wall System



FEATURES & BENEFITS

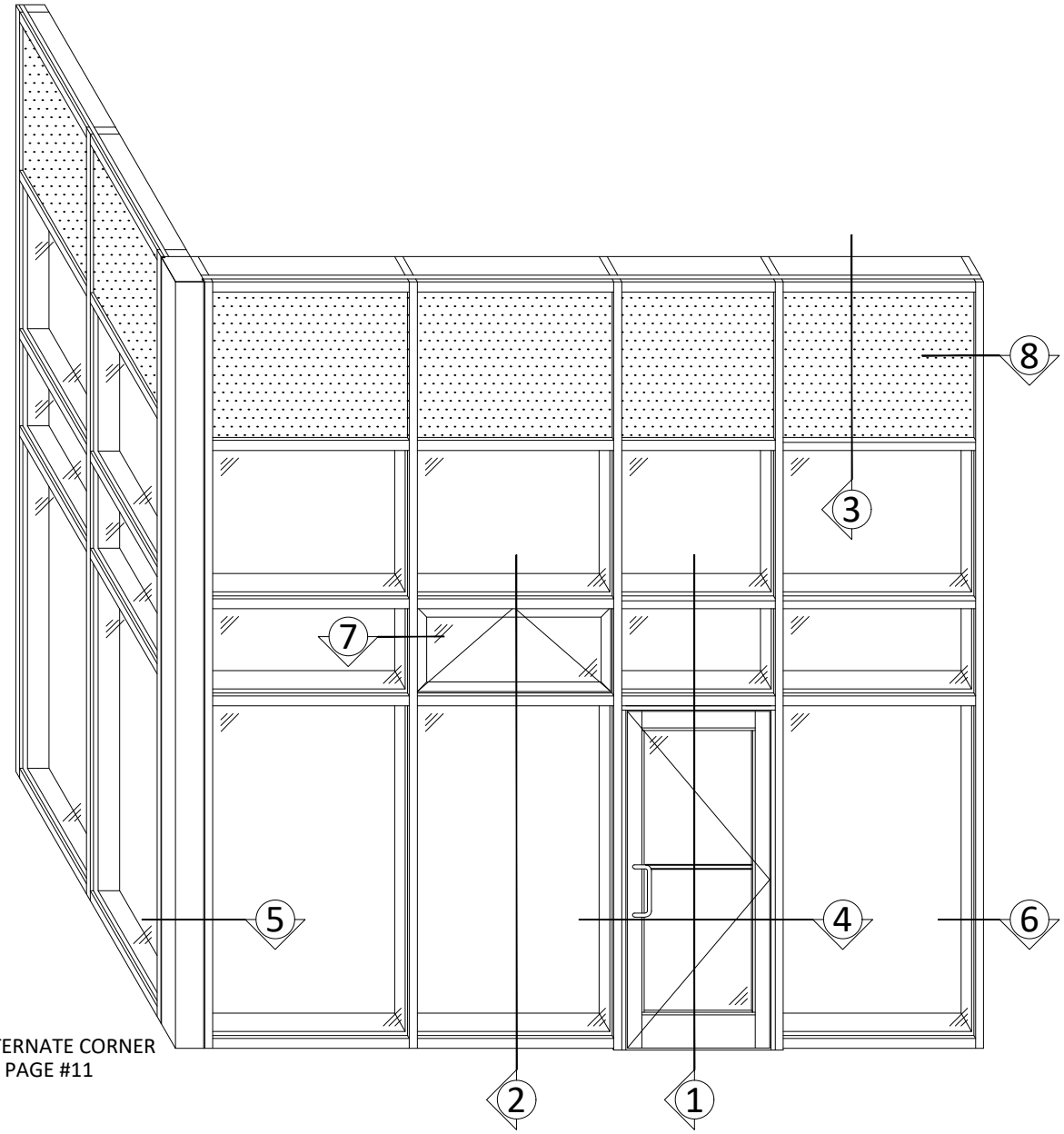
*A tested curtain wall system designed to accommodate a variety of double glazed and triple glazed options along with SSG structural silicone systems.
*Glazing weight is transfered to main frame on cantilevered chair supports.
*Also comes with a thermally bridged 25mm (1") door adaptor.
*Designed for use with all our door and vent systems.
*Will meet or exceed current u-values needed in todays market place.
*System can be Pre-fab for easier transporting and on site assembly.
*Mullion depths of 73mm (2 ⅞) , 92mm (3 ⅝) & 133mm (5 ¼) available
*Available in **CLASS 1** finishes of clear, bronze and black anodized.
*Custom paint colors on request only.





Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

HP2025 CURTAIN WALL



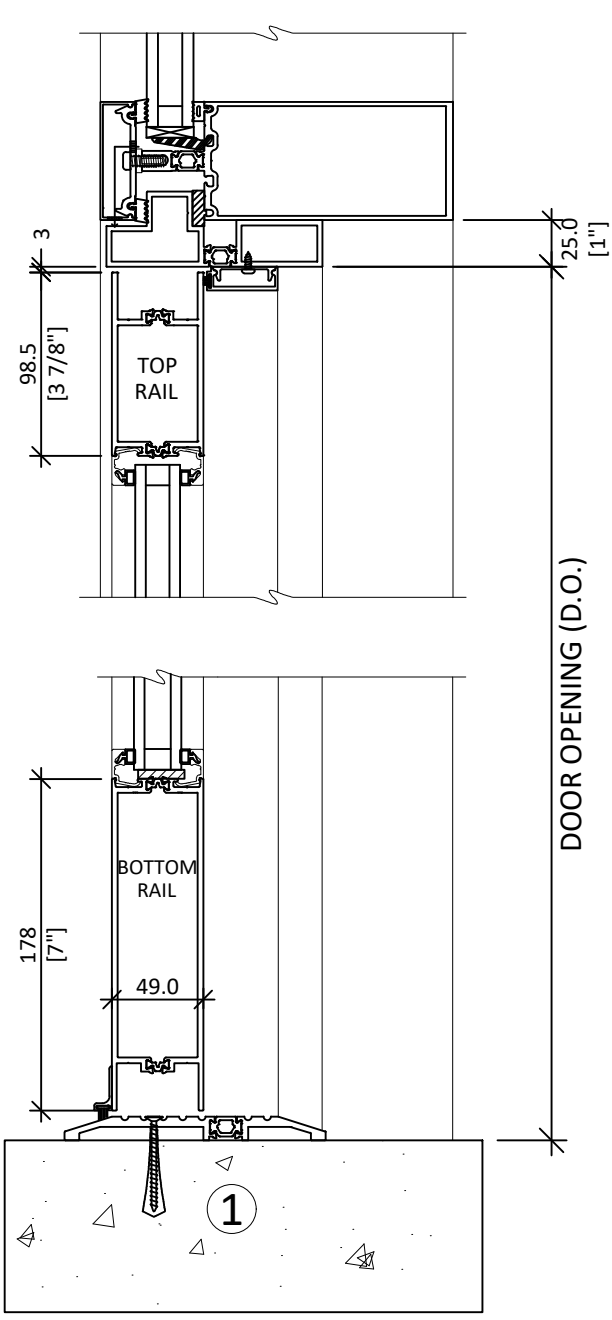
ALTERNATE CORNER
SEE PAGE #11

HP2025 CURTAIN WALL SYSTEM

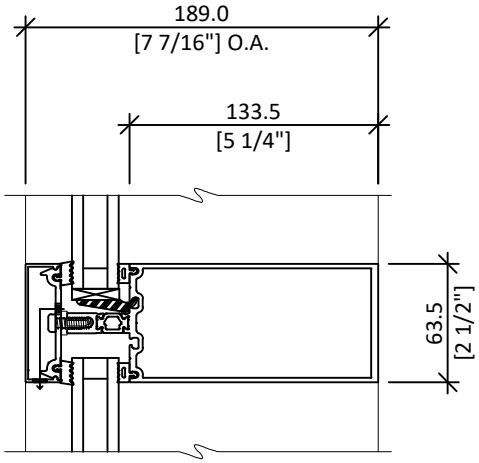
A HIGH PERFORMANCE DOUBLE OR TRIPLE GLAZED SYSTEM THAT BECOMES AN INTEGRAL PART OF THE BUILDING ENVELOPE. A NON STRUCTURAL, COST-EFFICIENT FRAMING SOLUTION INCORPORATING A 63.5mm (2 1/2") SIGHT LINE DESIGN FOR SINGLE OR MULTI STORY BUILDING APPLICATIONS. BACK SECTIONS ARE AVAILABLE IN VARIOUS DEPTHS TO MEET WINDLOADS REQUIREMENTS.

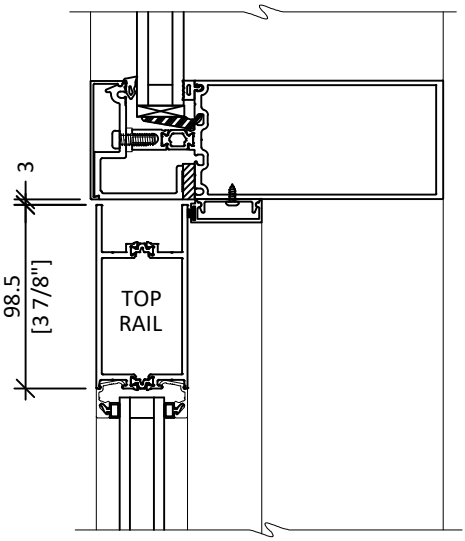
Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

HP2025 CURTAIN WALL SECTION DETAILS



THERMAL PERFORMANCE DOOR
CROSS SECTION

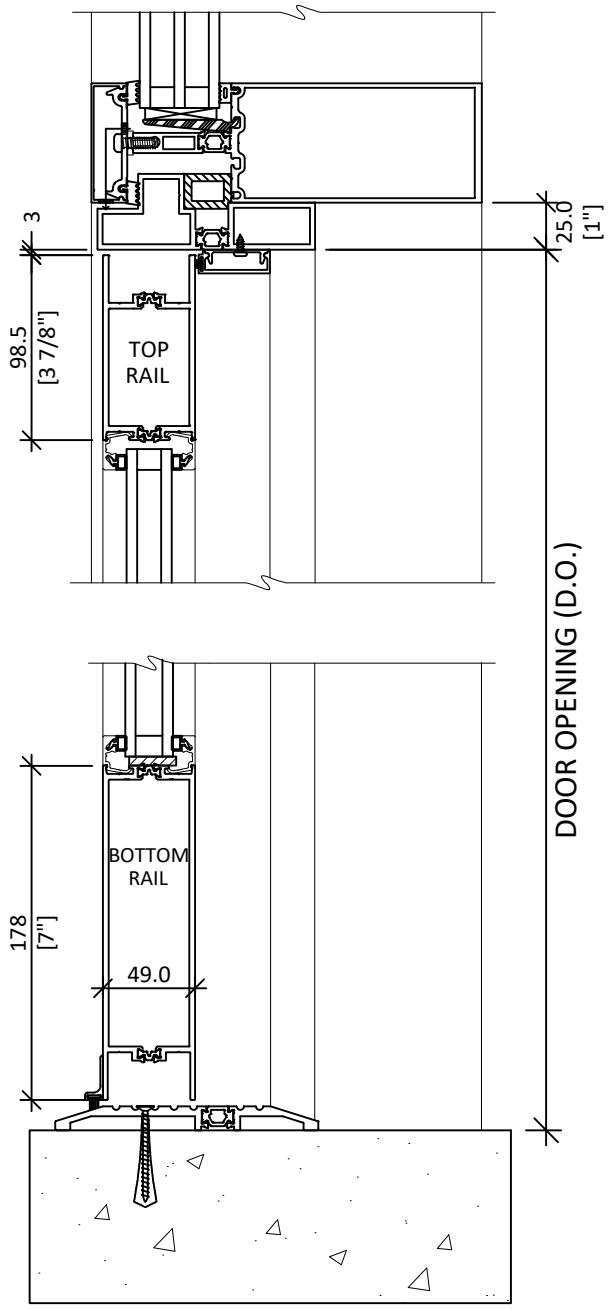




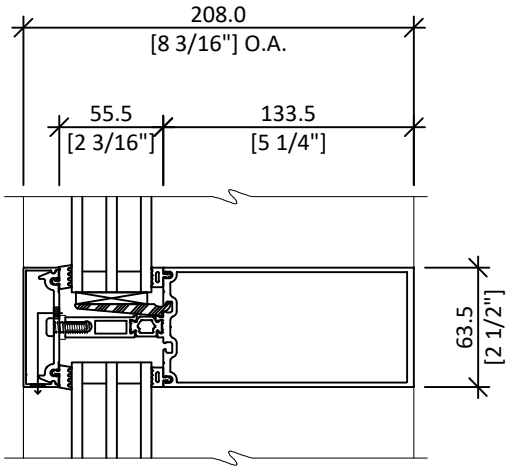
FLUSH DOOR ADAPTOR
FOR DUAL GLAZE SYSTEM ONLY

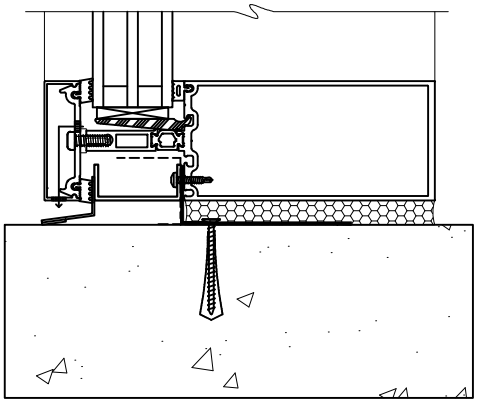
Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

HP2025 TRG CURTAIN WALL SECTION DETAILS



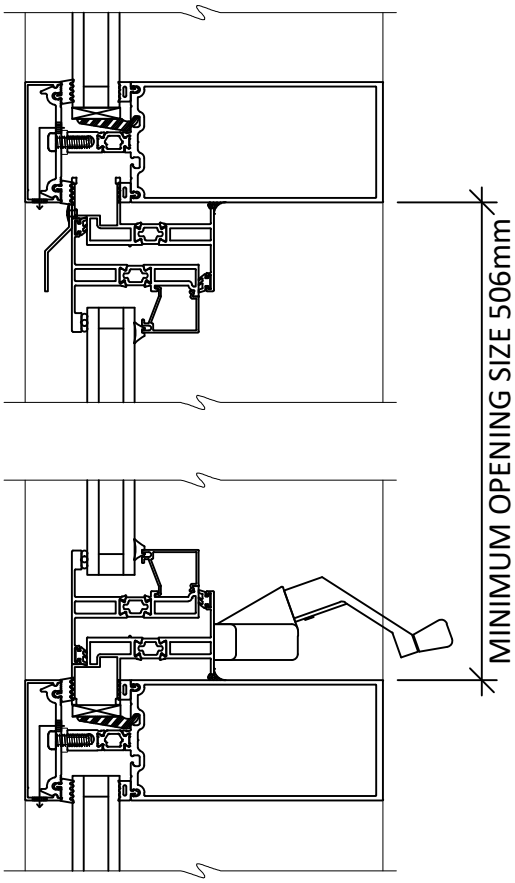
THERMAL PERFORMANCE DOOR
CROSS SECTION



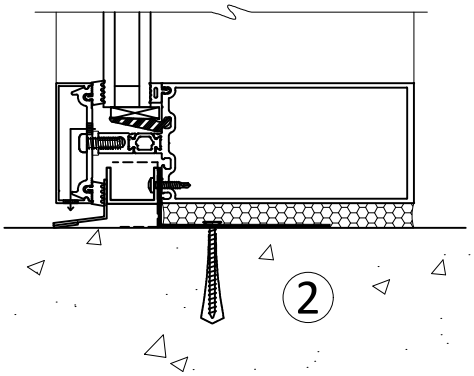


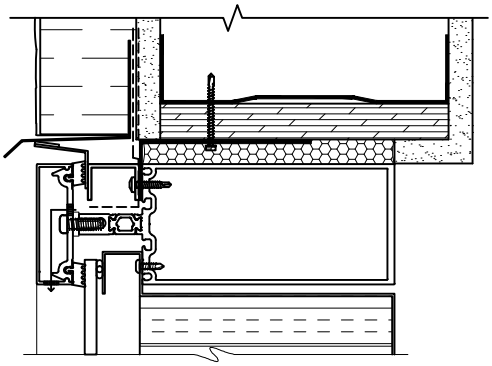
Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

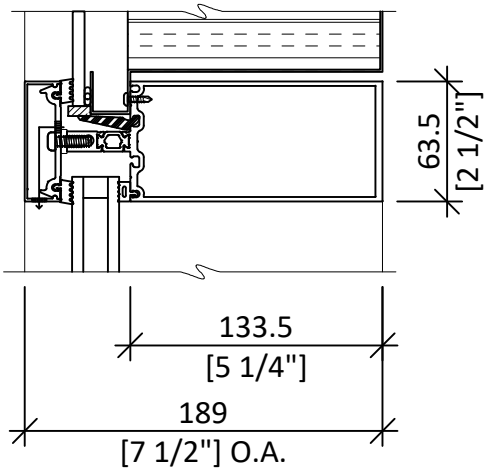
HP2025 CURTAIN WALL SECTION DETAILS



HP2025 SERIES WITH HP GOLIATH SERIES VENT INSERT



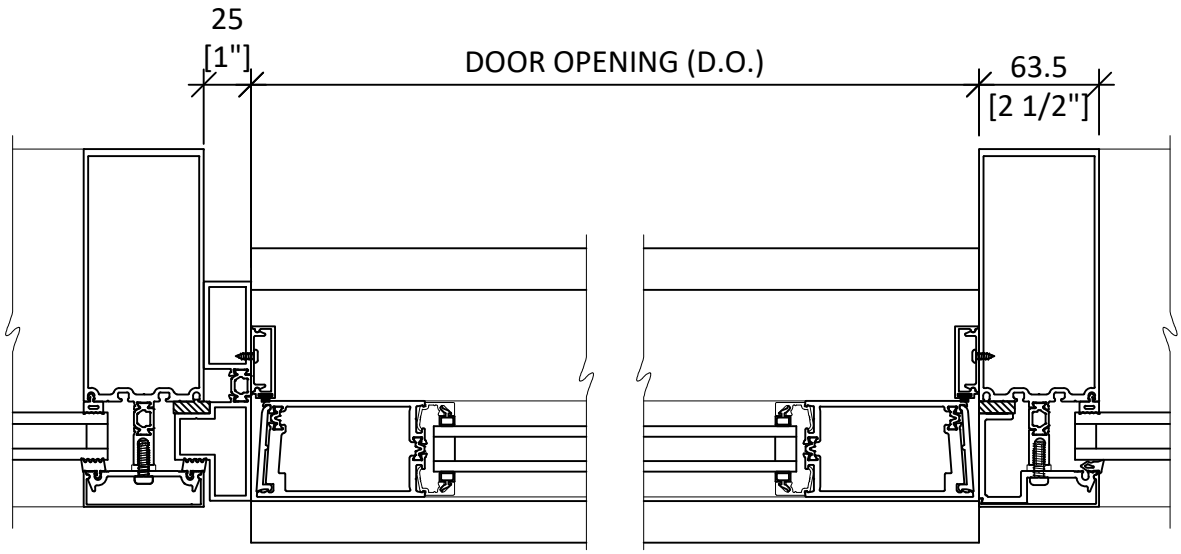




3

Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

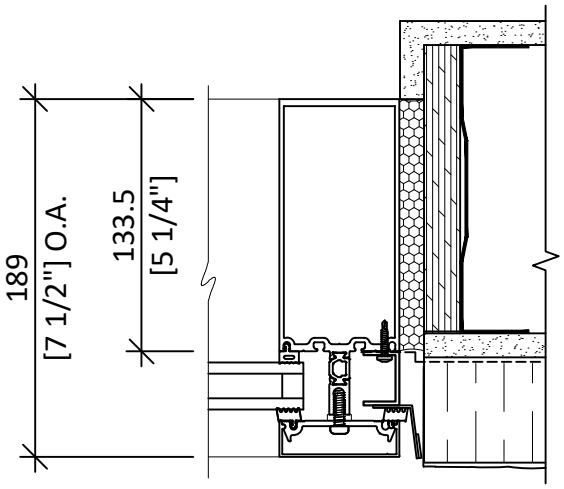
HP2025 CURTAIN WALL
PLAN DETAILS

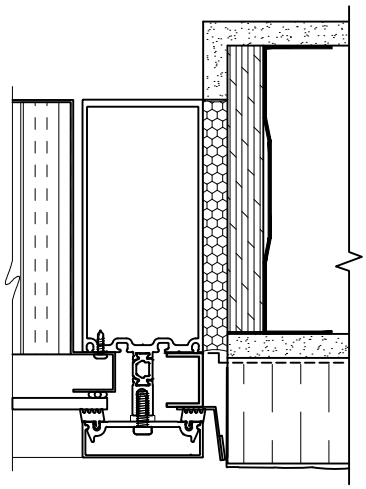


THERMAL PERFORMANCE
DOOR ADAPTOR

FLUSH DOOR ADAPTOR

4

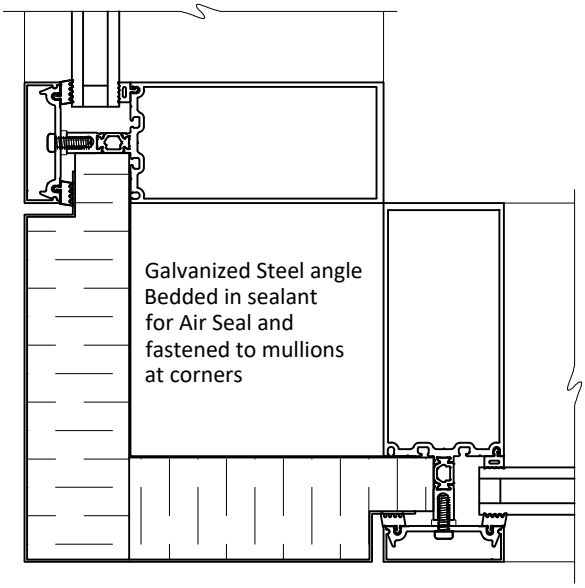




6

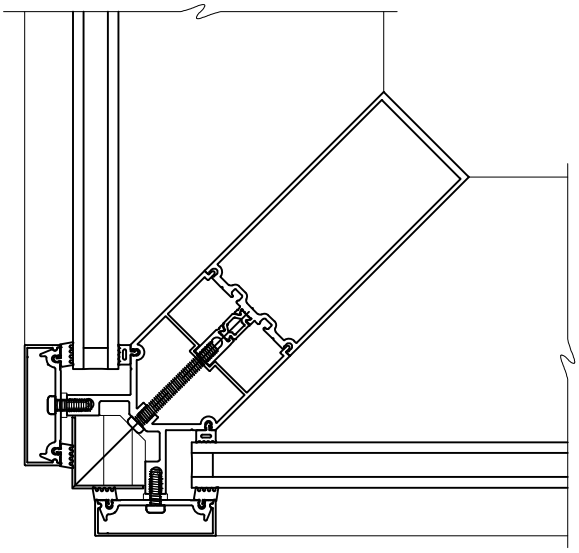
8

HP2025 CURTAIN WALL PLAN DETAILS

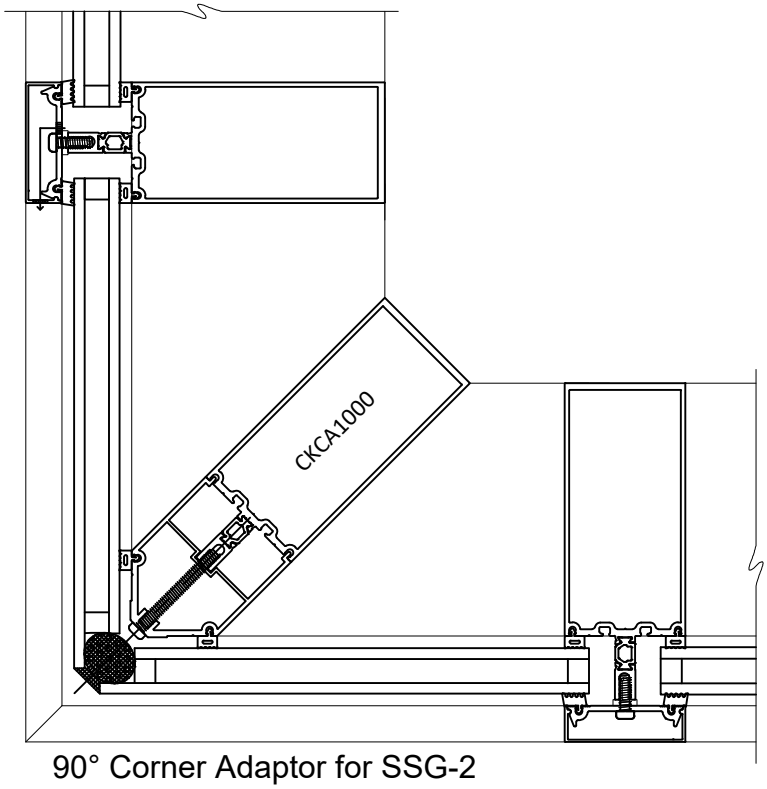


90° Corner Panel
c/w Styrofoam Insulation and
Flashing to match frame

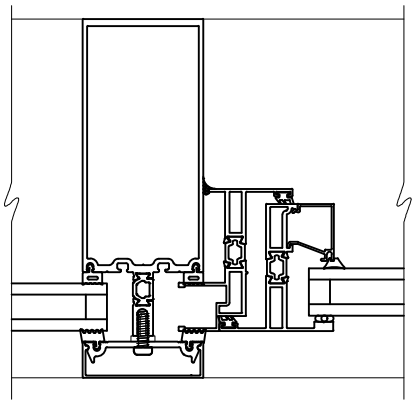
5



90° Corner Adaptor
c/w Styrofoam Insulation and
Flashing to match frame



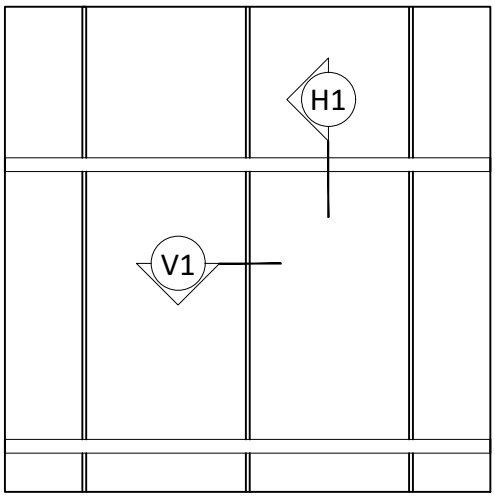
90° Corner Adaptor for SSG-2
w/ Silicone Sealant & Backer Rod



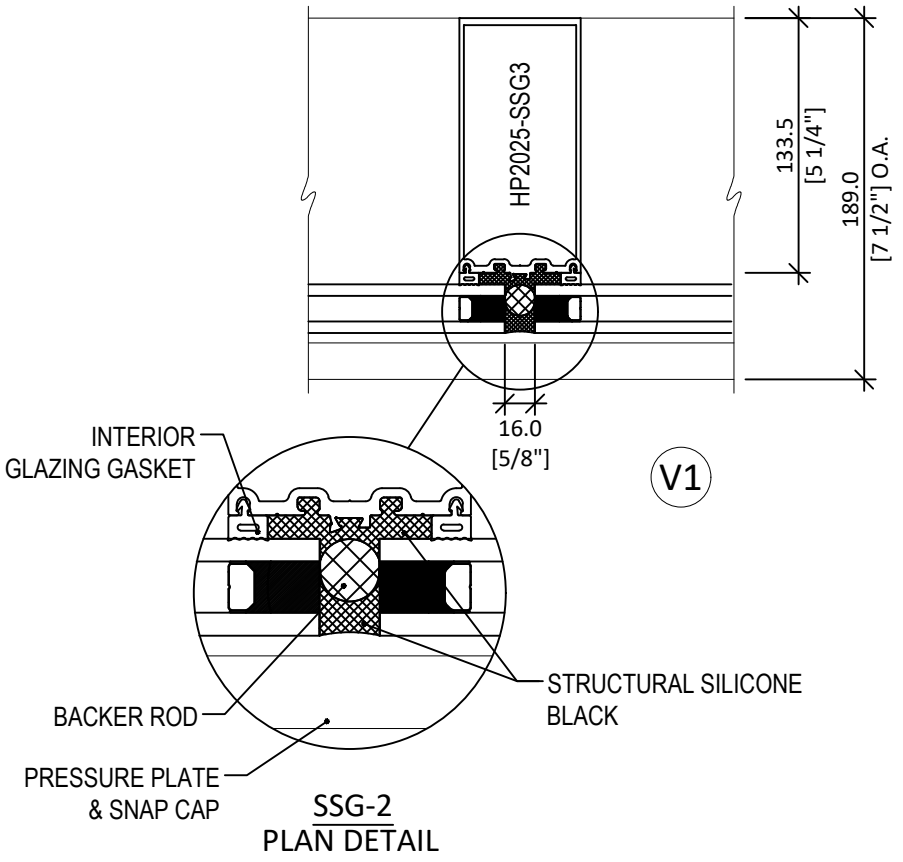
HP2025 SERIES WITH HP GOLIATH
SERIES VENT INSERT

7

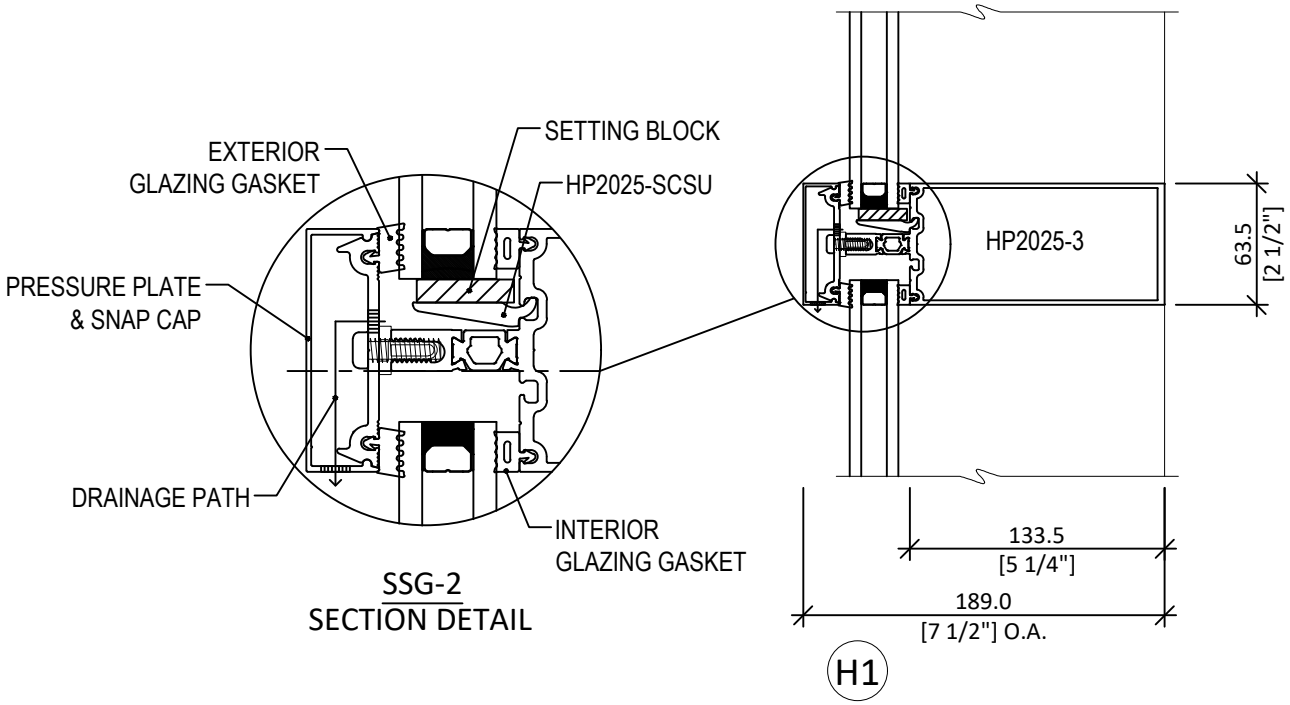
Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca



2-SIDE STRUCTURAL GLAZING



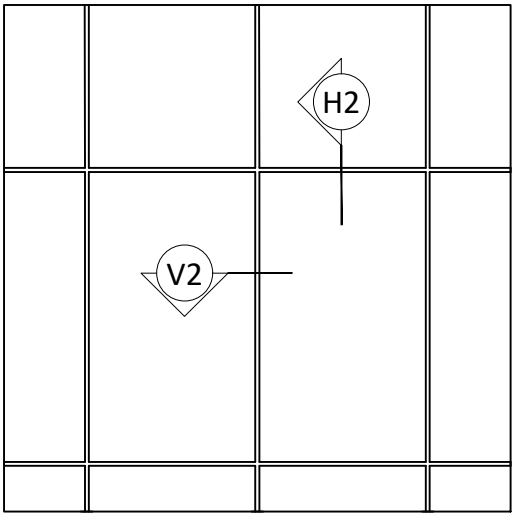
SSG-2 PLAN DETAIL



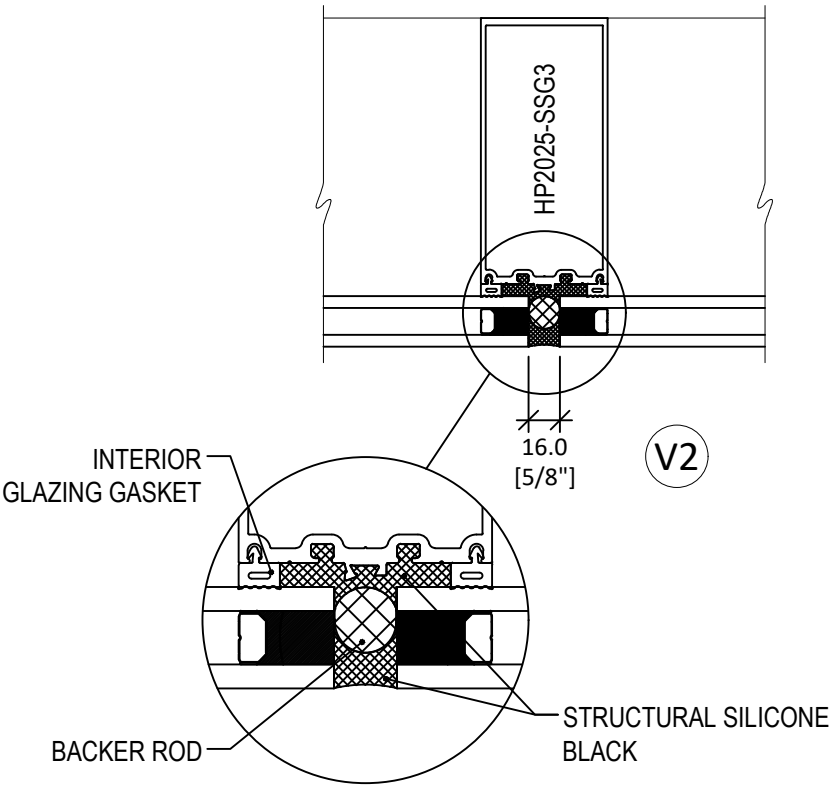
SSG-2 SECTION DETAIL

Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

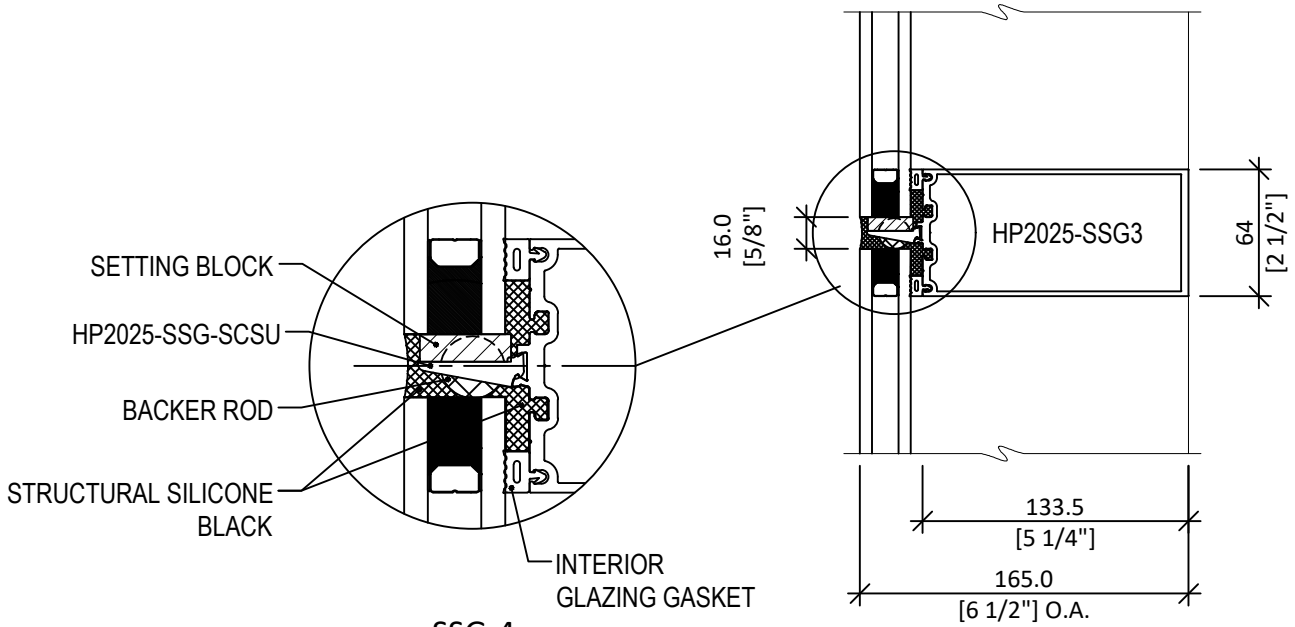
HP2025-SSG-4 CURTAIN WALL



4-SIDE STRUCTURAL GLAZING



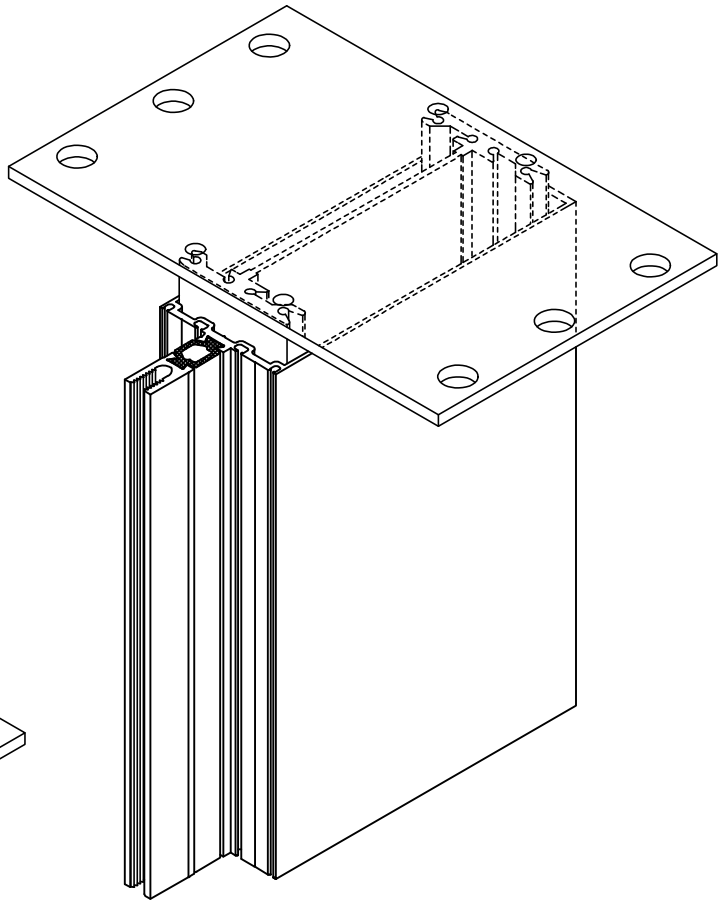
SSG-4
PLAN DETAIL



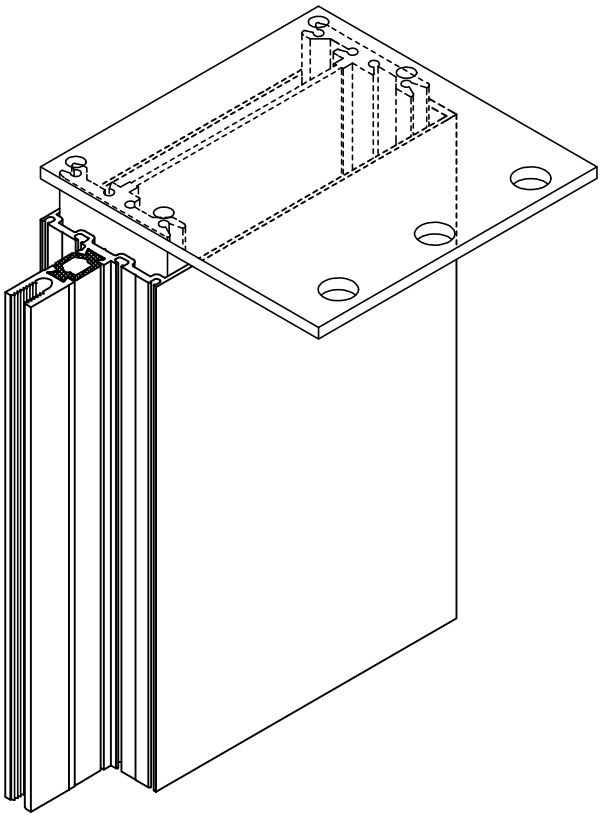
SSG-4
SECTION DETAIL

H2

HP2025 CURTAIN WALL
TOP AND BOTTOM SLIP ANCHORS



T ANCHOR

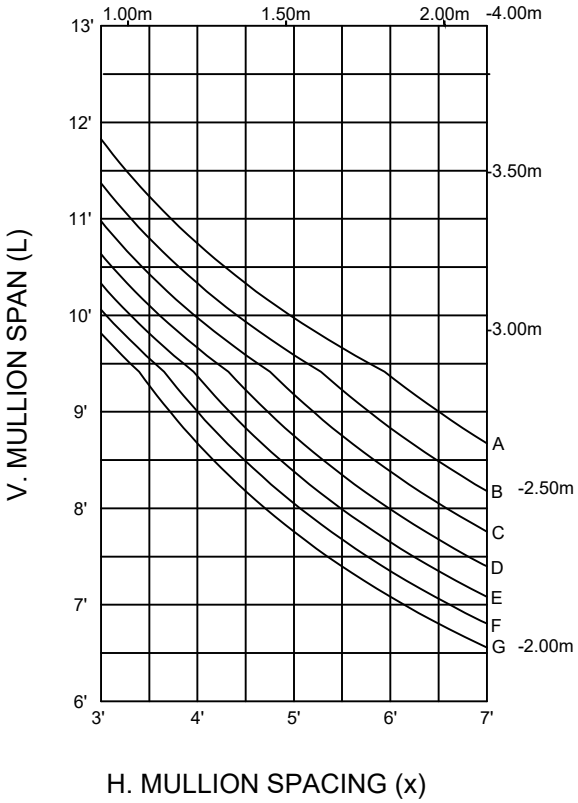


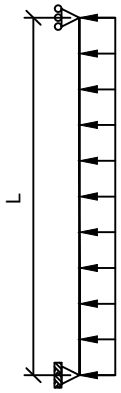
SIDE ANCHOR

HP2025
WIND LOAD CHARTS

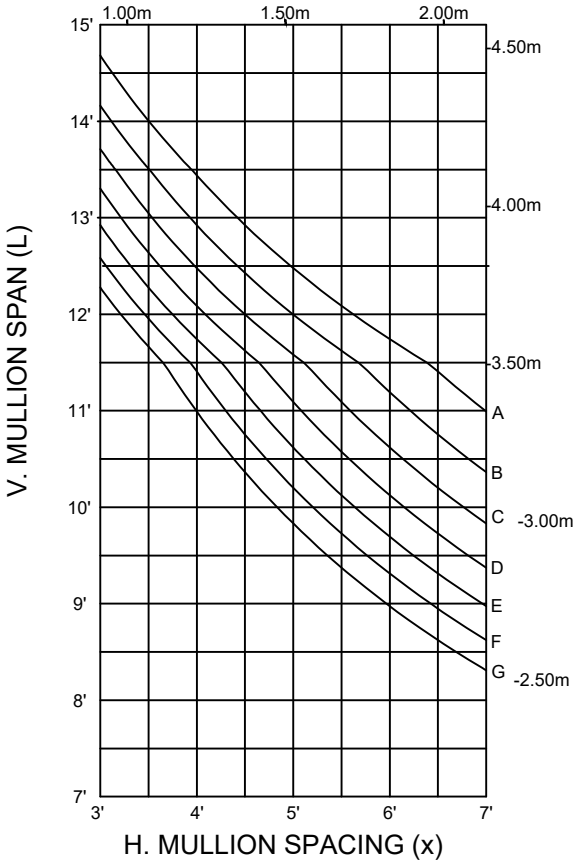
GENERAL NOTES:

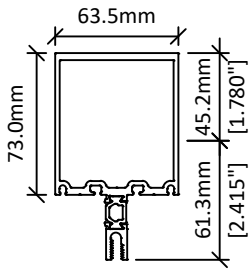
1. REFERENCES IN CALCULATING THE WIND LOAD CHART ARE BASED ON THE NATIONAL BUILDING CODE OF CANADA, AAMA TIR-A11 AND CAN/CSA S157.
2. IT IS ALSO ASSUMED THAT LATERAL BRACING IS PROVIDED IN THE CALCULATION.
3. A 95% CAPACITY WAS APPLIED TO COVER UNCERTAINTIES DUE TO CRIMPING OF POLYAMIDE AND ALUMINUM REGLET.





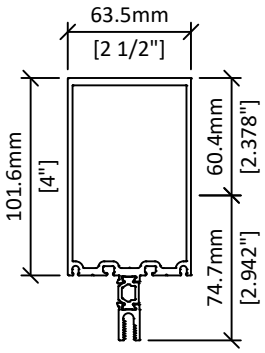
A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf





Ix = 2.532 in^4
Sx = 1.048 in^3

1 HP2025 - 1
2 7/8" B.S.



Ix = 4.957 in^4
Sx = 1.685 in^3

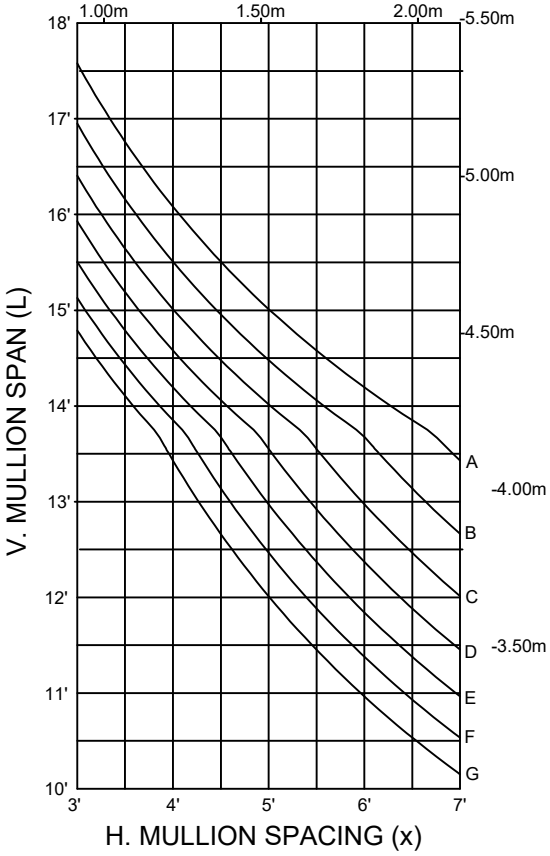
2 HP2025-2
4" B.S.

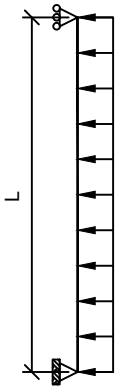
MATERIAL	ALUMINUM ALLOY 6063-T6
DEFLECTION LIMIT	L/175 & L/240+1/4"

HP2025
WIND LOAD CHARTS

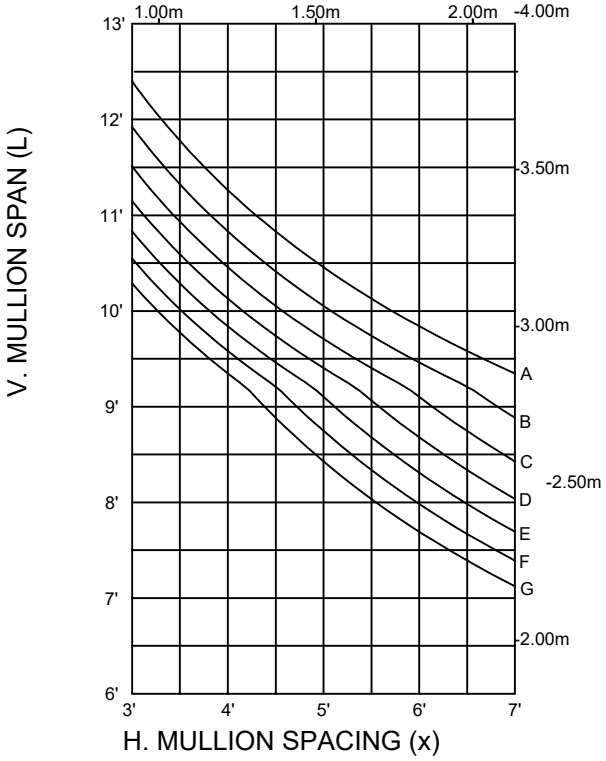
GENERAL NOTES:

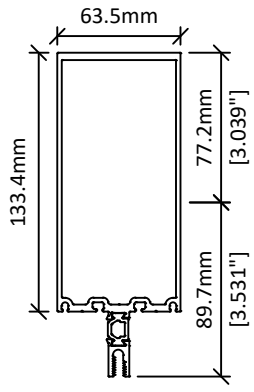
1. REFERENCES IN CALCULATING THE WIND LOAD CHART ARE BASED ON THE NATIONAL BUILDING CODE OF CANADA, AAMA TIR-A11 AND CAN/CSA S157.
2. IT IS ALSO ASSUMED THAT LATERAL BRACING IS PROVIDED IN THE CALCULATION.
3. A 95% CAPACITY WAS APPLIED TO COVER UNCERTAINTIES DUE TO CRIMPING OF POLYAMIDE AND ALUMINUM REGLET.





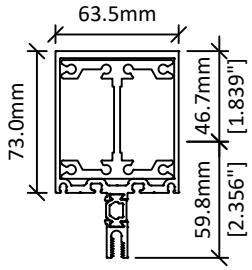
A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf





Ix = 8.881 in^4
Sx = 2.515 in^3

3 HP2025-3 5 1/4" B.S.



Ix = 2.917 in^4
Sx = 1.238 in^3

4 HP2025-1-S 2 7/8" B.S.

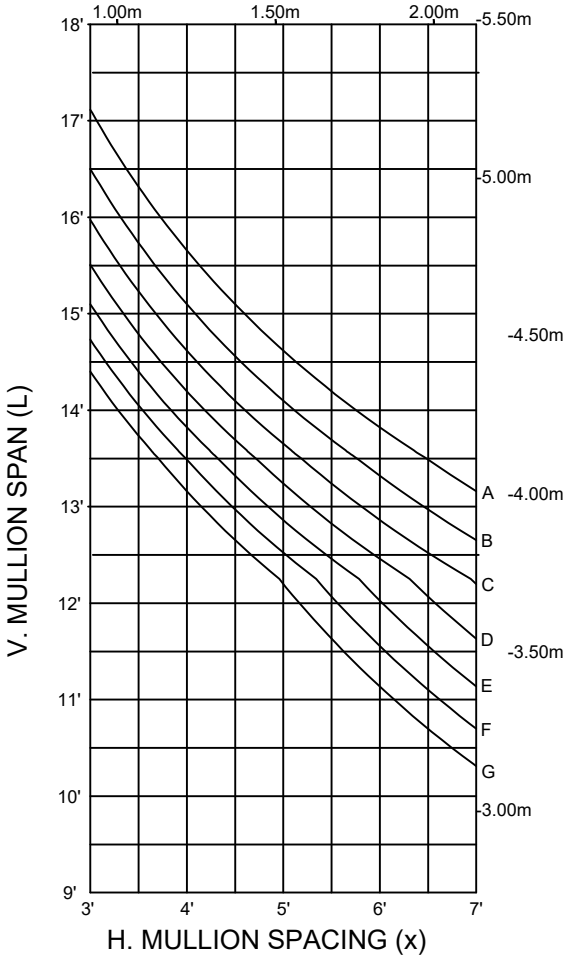
MATERIAL	ALUMINUM ALLOY 6063-T6
DEFLECTION LIMIT	L/175 & L/240+1/4"

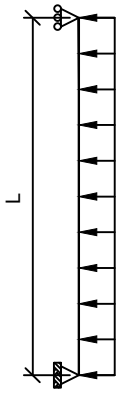
Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

HP2025
WIND LOAD CHARTS

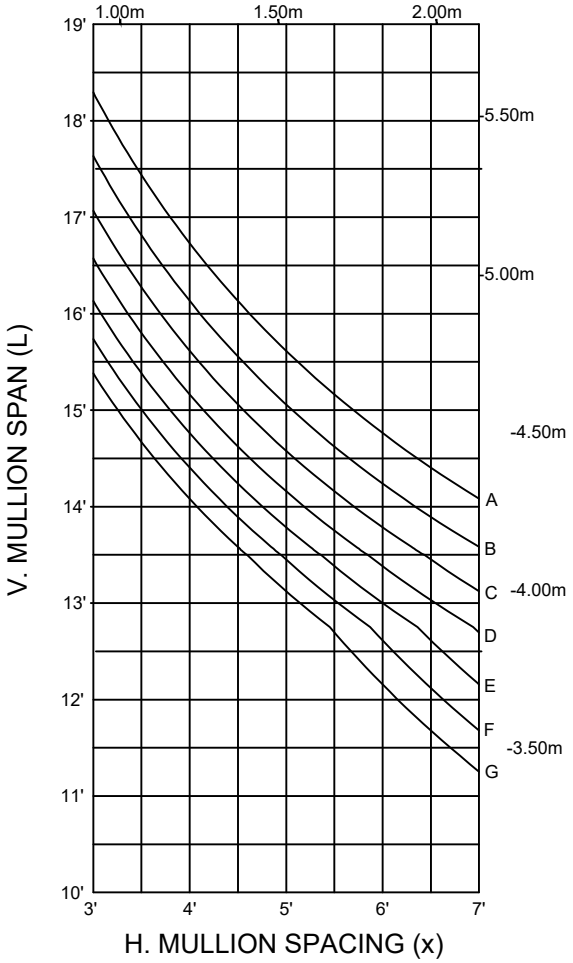
GENERAL NOTES:

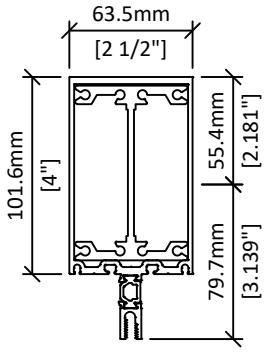
1. REFERENCES IN CALCULATING THE WIND LOAD CHART ARE BASED ON THE NATIONAL BUILDING CODE OF CANADA, AAMA TIR-A11 AND CAN/CSA S157.
2. IT IS ALSO ASSUMED THAT LATERAL BRACING IS PROVIDED IN THE CALCULATION.
3. A 95% CAPACITY WAS APPLIED TO COVER UNCERTAINTIES DUE TO CRIMPING OF POLYAMIDE AND ALUMINUM REGLET.





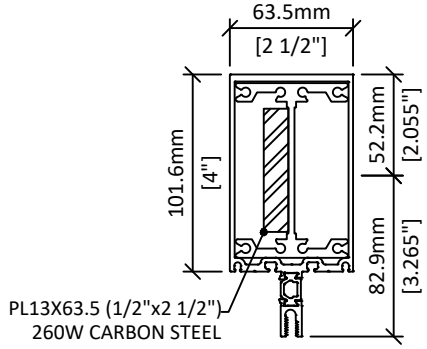
A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf





Ix = 8.142 in^4
Sx = 2.594 in^3

5 HP2025-2-S 4" B.S.



Ix = 10.091 in^4
Sx = 3.091 in^3

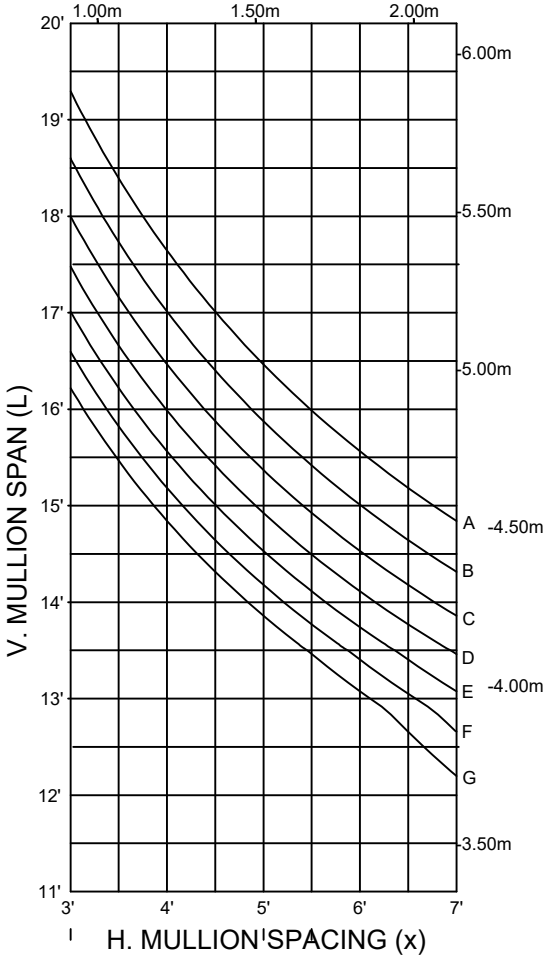
6 HP2025-2-S1 4" B.S.

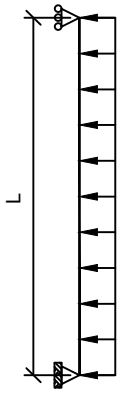
MATERIAL	ALUMINUM ALLOY 6063-T6
DEFLECTION LIMIT	L/175 & L/240+1/4"

HP2025
WIND LOAD CHARTS

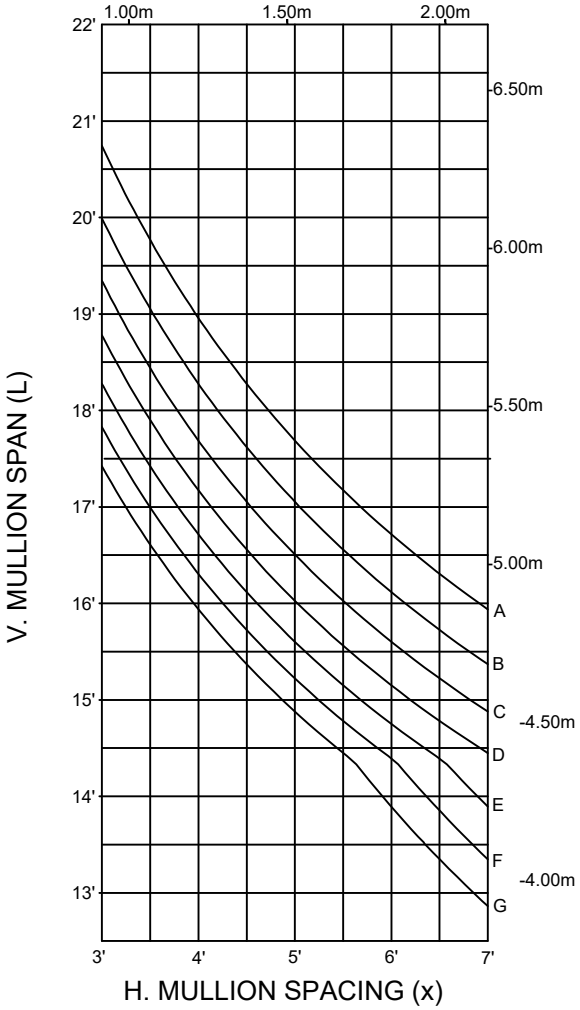
GENERAL NOTES:

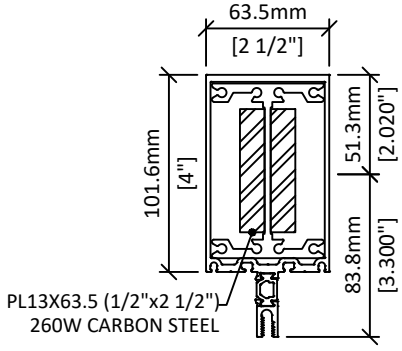
1. REFERENCES IN CALCULATING THE WIND LOAD CHART ARE BASED ON THE NATIONAL BUILDING CODE OF CANADA, AAMA TIR-A11 AND CAN/CSA S157.
2. IT IS ALSO ASSUMED THAT LATERAL BRACING IS PROVIDED IN THE CALCULATION.
3. A 95% CAPACITY WAS APPLIED TO COVER UNCERTAINTIES DUE TO CRIMPING OF POLYAMIDE AND ALUMINUM REGLET.





A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf

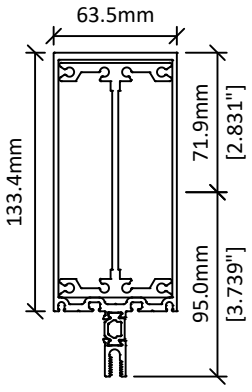




Ix = 11.980 in^4
Sx = 3.630 in^3

7 HP2025-2-S2 4" B.S.

MATERIAL	ALUMINUM ALLOY 6063-T6
DEFLECTION LIMIT	L/175 & L/240+1/4"



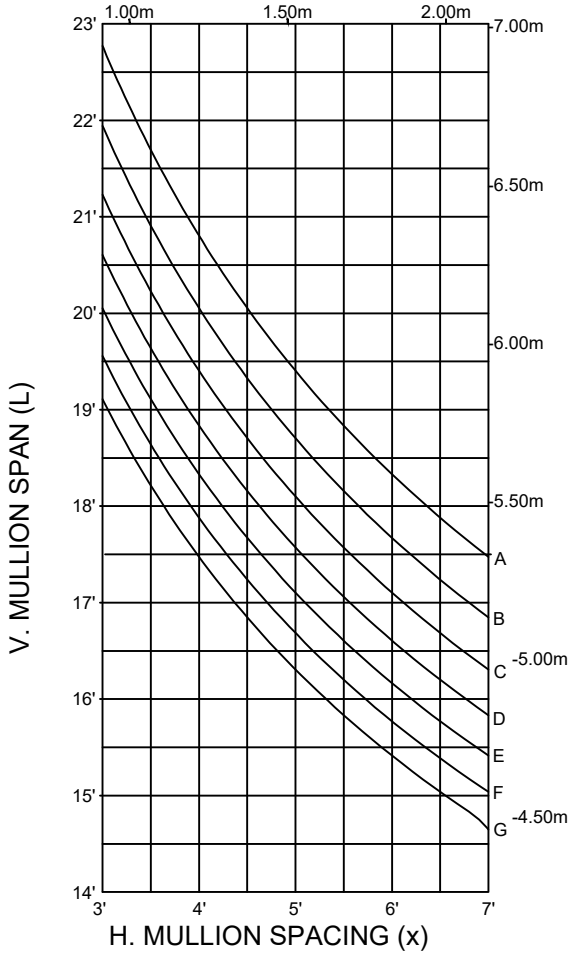
Ix = 15.095 in^4
Sx = 4.037 in^3

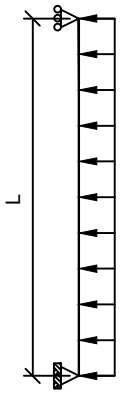
8 HP2025-3-S 5 1/4" B.S.

HP2025
WIND LOAD CHARTS

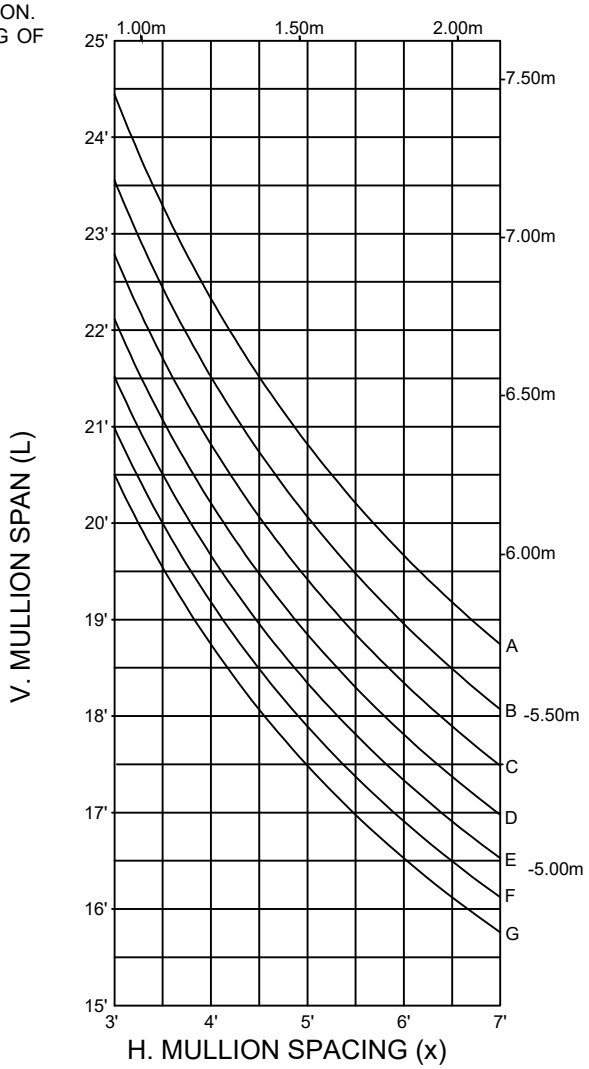
GENERAL NOTES:

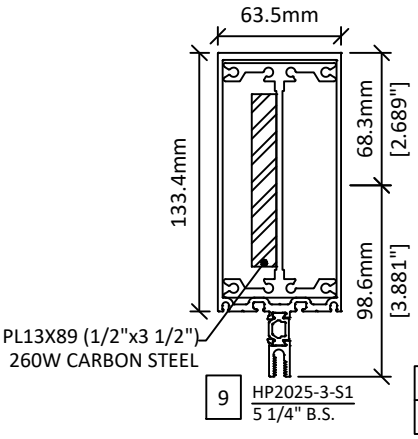
1. REFERENCES IN CALCULATING THE WIND LOAD CHART ARE BASED ON THE NATIONAL BUILDING CODE OF CANADA, AAMA TIR-A11 AND CAN/CSA S157.
2. IT IS ALSO ASSUMED THAT LATERAL BRACING IS PROVIDED IN THE CALCULATION.
3. A 95% CAPACITY WAS APPLIED TO COVER UNCERTAINTIES DUE TO CRIMPING OF POLYAMIDE AND ALUMINUM REGLET.





A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf

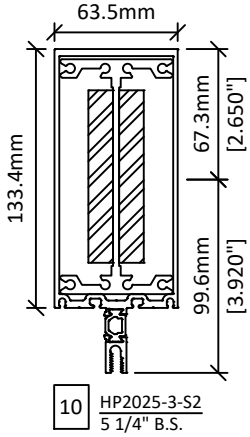




Ix = 20.322 in^4
Sx = 5.236 in^3

9 HP2025-3-S1
5 1/4" B.S.

MATERIAL	ALUMINUM ALLOY 6063-T6
DEFLECTION LIMIT	L/175 & L/240+1/4"



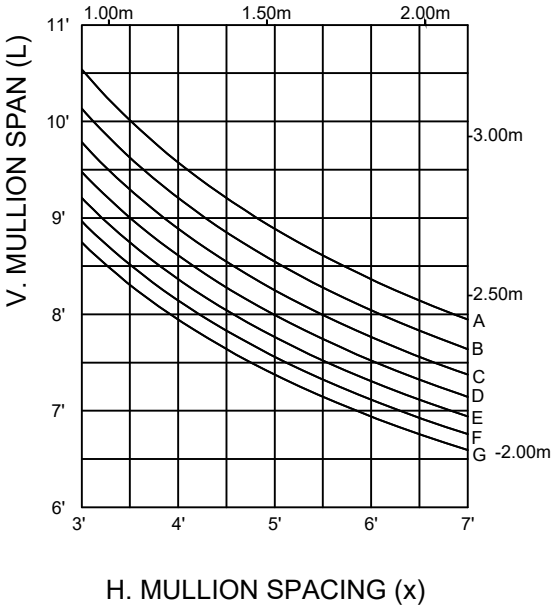
Ix = 25.461 in^4
Sx = 6.495 in^3

10 HP2025-3-S2
5 1/4" B.S.

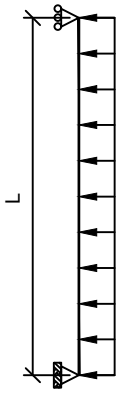
Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

GENERAL NOTES:

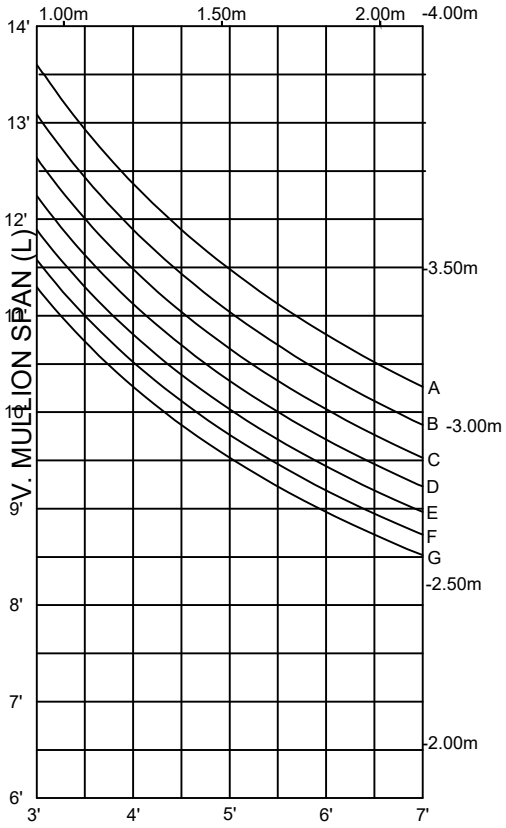
1. REFERENCES IN CALCULATING THE WIND LOAD CHART ARE BASED ON THE NATIONAL BUILDING CODE OF CANADA, AAMA TIR-A11 AND CAN/CSA S157.
2. IT IS ALSO ASSUMED THAT LATERAL BRACING IS PROVIDED IN THE CALCULATION.



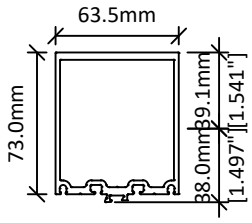
H. MULLION SPACING (x)



A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf

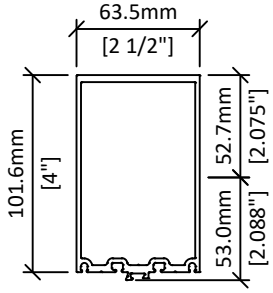


H. MULLION SPACING (x)



Ix = 1.702 in^4
Sx = 1.137 in^3

11 HP2025 - SSG1
2 7/8" B.S.



Ix = 3.669 in^4
Sx = 1.757 in^3

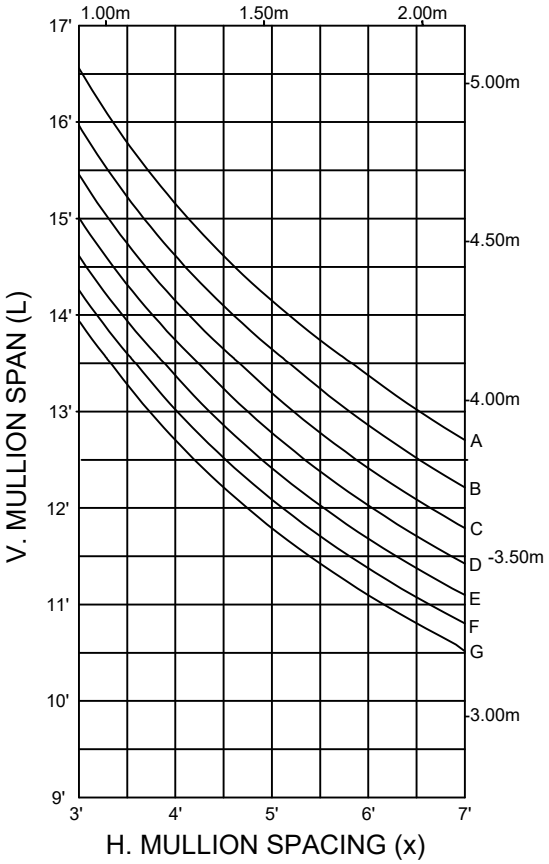
12 HP2025 - SSG2
4" B.S.

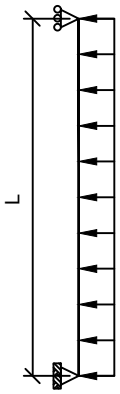
MATERIAL	ALUMINUM ALLOY 6063-T6
DEFLECTION LIMIT	L/175 & L/240+1/4"

Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

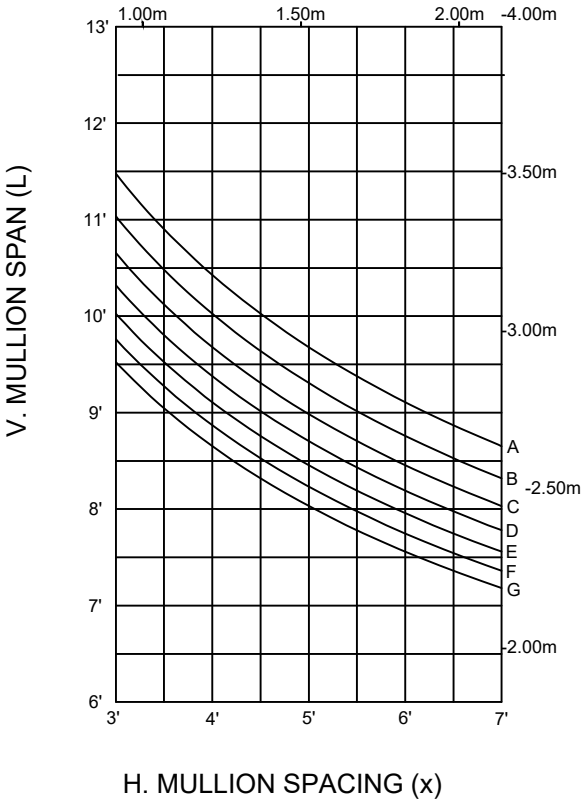
HP2025
WIND LOAD CHARTS

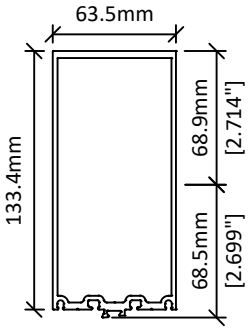
GENERAL NOTES:
1. REFERENCES IN CALCULATING THE WIND LOAD CHART ARE BASED ON THE NATIONAL BUILDING CODE OF CANADA, AAMA TIR-A11 AND CAN/CSA S157.
2. IT IS ALSO ASSUMED THAT LATERAL BRACING IS PROVIDED IN THE CALCULATION.





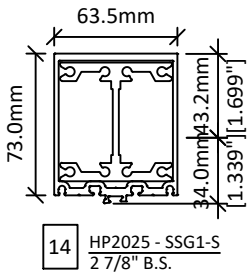
A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf





Ix = 6.956 in^4
Sx = 2.563 in^3

13 HP2025 - SSG3
5 1/4" B.S.



Ix = 2.198 in^4
Sx = 1.287 in^3

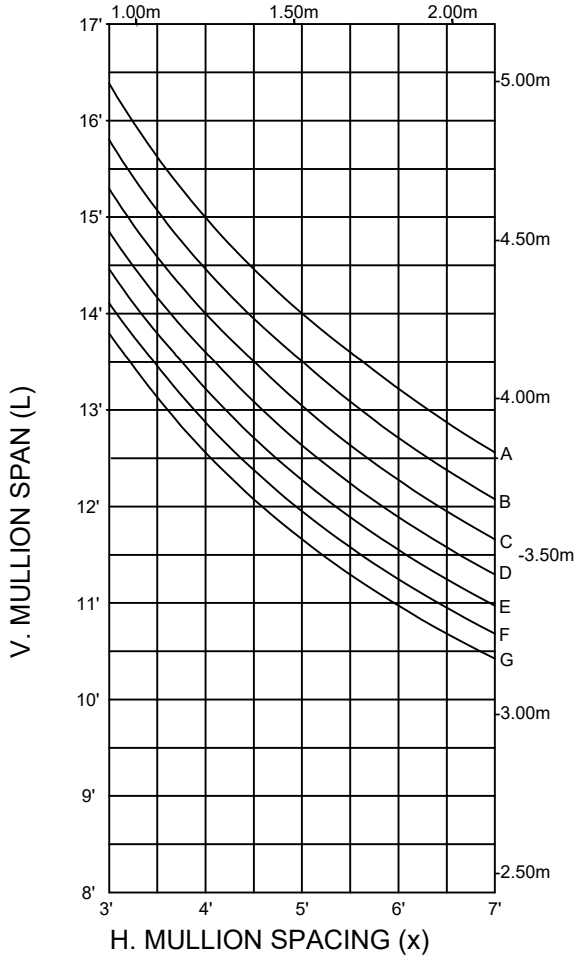
14 HP2025 - SSG1-S
2 7/8" B.S.

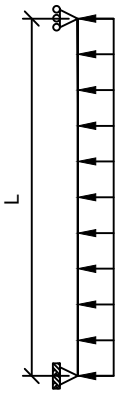
MATERIAL	ALUMINUM ALLOY 6063-T6
DEFLECTION LIMIT	L/175 & L/240+1/4"

Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

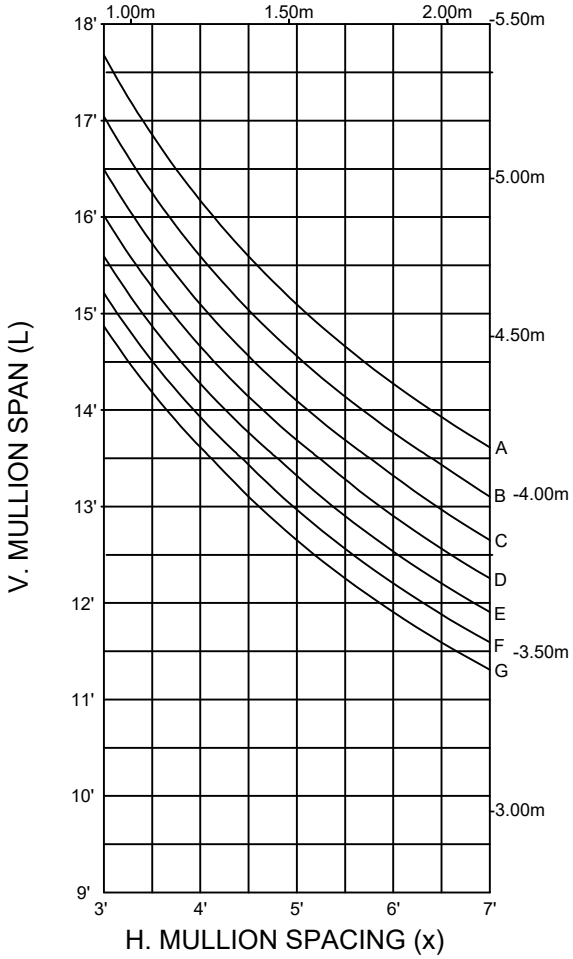
HP2025
WIND LOAD CHARTS

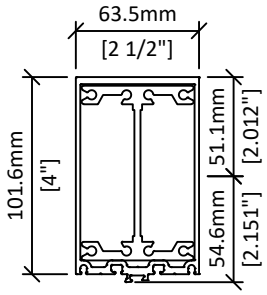
GENERAL NOTES:
1. REFERENCES IN CALCULATING THE WIND LOAD CHART ARE BASED ON THE NATIONAL BUILDING CODE OF CANADA, AAMA TIR-A11 AND CAN/CSA S157.
2. IT IS ALSO ASSUMED THAT LATERAL BRACING IS PROVIDED IN THE CALCULATION.





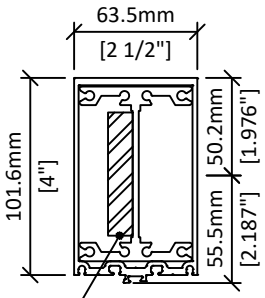
A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf





Ix = 6.723 in^4
Sx = 3.672 in^3

15 HP2025 - SSG2-S
4" B.S.



Ix = 8.589 in^4
Sx = 3.929 in^3

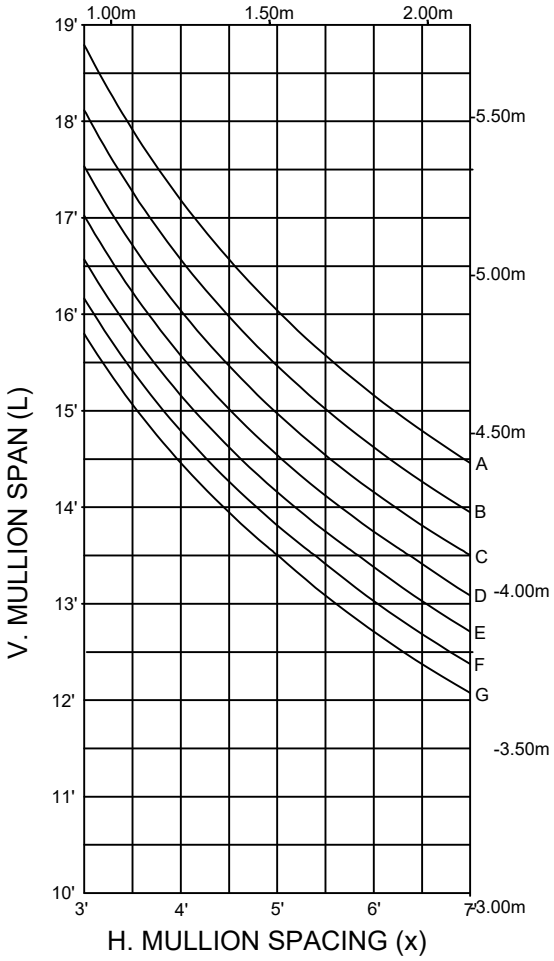
16 HP2025 - SSG2-S1
4" B.S.

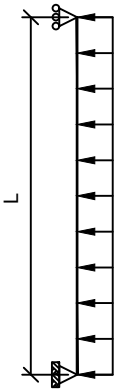
MATERIAL	ALUMINUM ALLOY 6063-T6
DEFLECTION LIMIT	L/175 & L/240+1/4"

Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

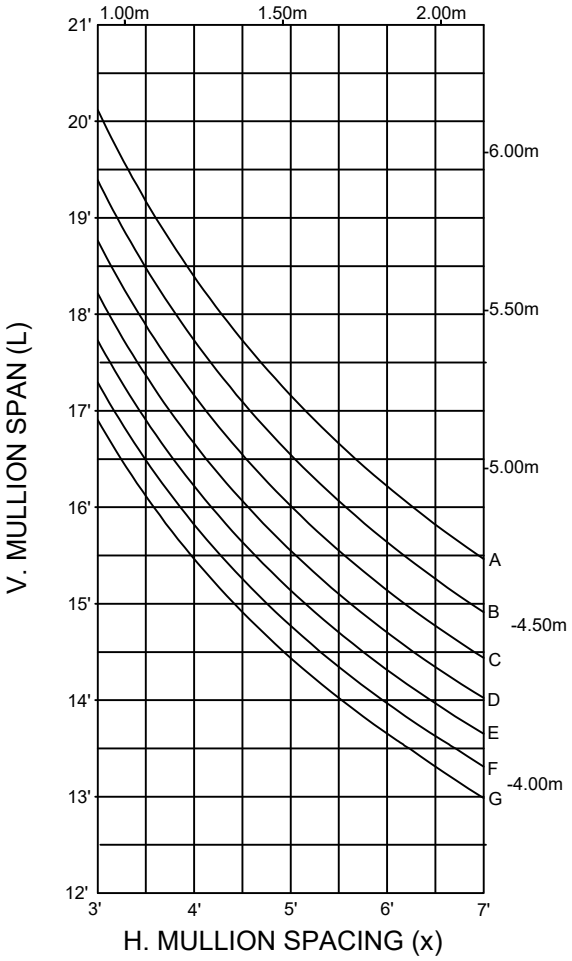
HP2025
WIND LOAD CHARTS

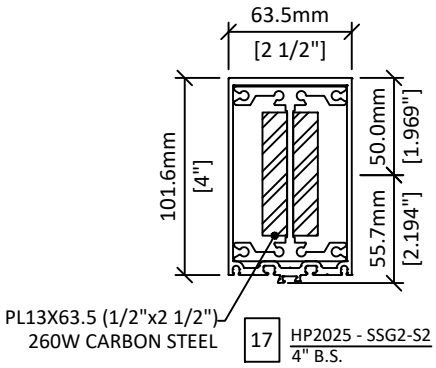
GENERAL NOTES:
1. REFERENCES IN CALCULATING THE WIND LOAD CHART ARE BASED ON THE NATIONAL BUILDING CODE OF CANADA, AAMA TIR-A11 AND CAN/CSA S157.
2. IT IS ALSO ASSUMED THAT LATERAL BRACING IS PROVIDED IN THE CALCULATION.





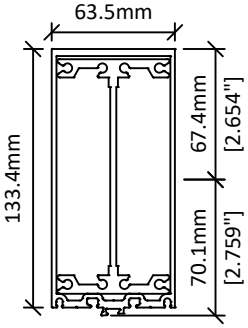
A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf





Ix = 10.453 in^4
Sx = 4.764 in^3

17 HP2025 - SSG2-S2
4" B.S.



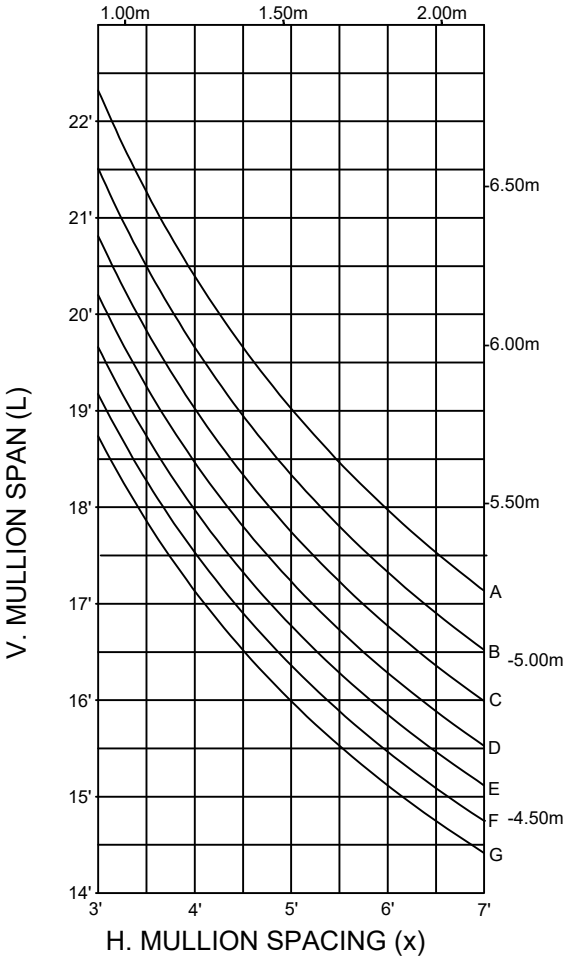
Ix = 13.007 in^4
Sx = 4.901 in^3

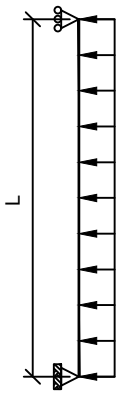
18 HP2025 - SSG3-S
5 1/4" B.S.

MATERIAL	ALUMINUM ALLOY 6063-T6
DEFLECTION LIMIT	L/175 & L/240+1/4"

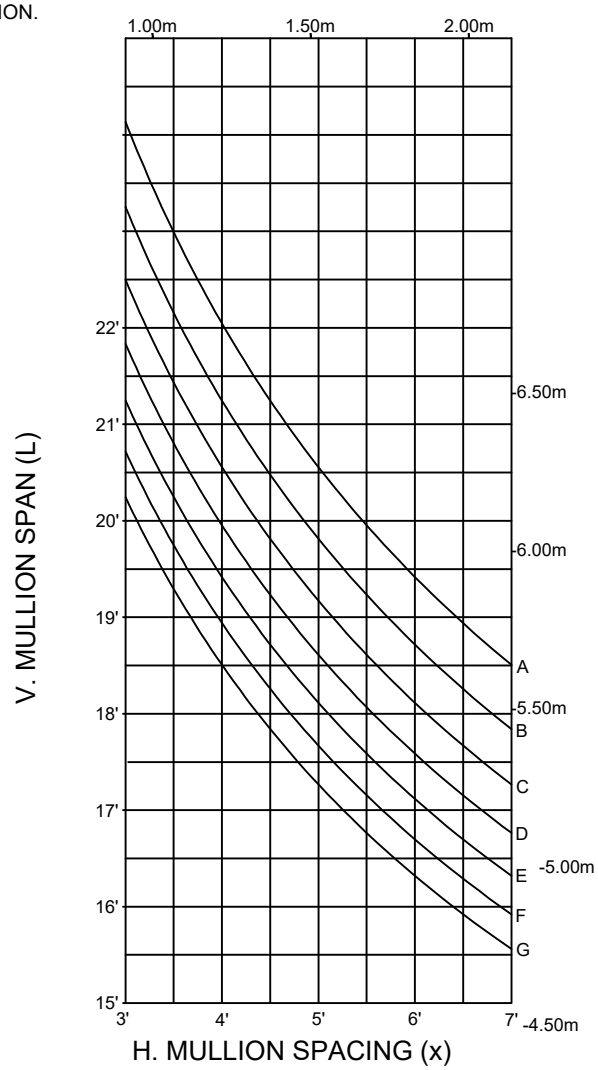
HP2025
WIND LOAD CHARTS

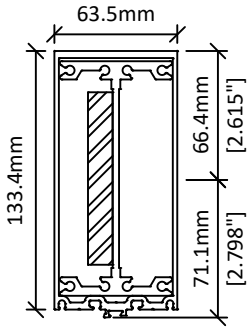
GENERAL NOTES:
1. REFERENCES IN CALCULATING THE WIND LOAD CHART ARE BASED ON THE NATIONAL BUILDING CODE OF CANADA, AAMA TIR-A11 AND CAN/CSA S157.
2. IT IS ALSO ASSUMED THAT LATERAL BRACING IS PROVIDED IN THE CALCULATION.





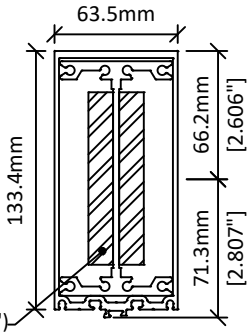
A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf





Ix = 18.119 in^4
Sx = 6.874 in^3

19 HP2025 - SSG3-S1
5 1/4" B.S.



Ix = 23.225 in^4
Sx = 8.781 in^3

20 HP2025 - SSG3-S2
5 1/4" B.S.

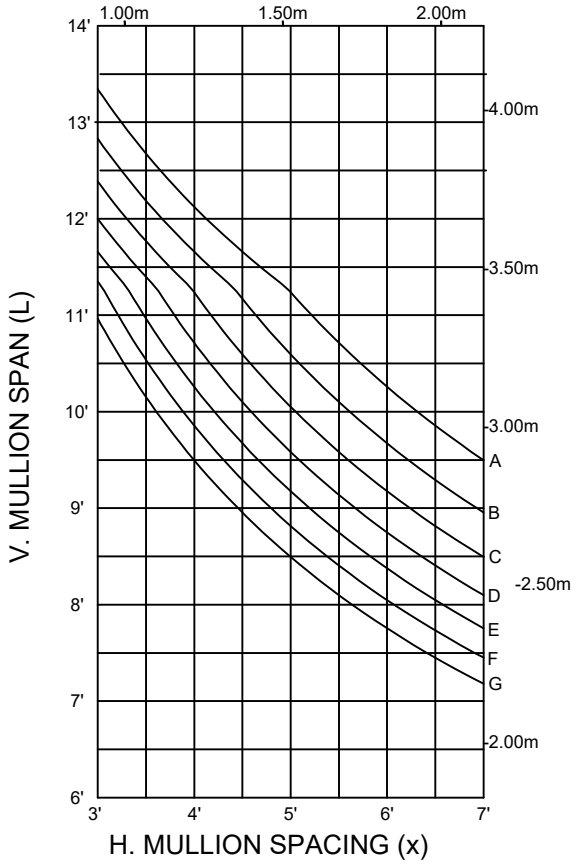
MATERIAL	ALUMINUM ALLOY 6063-T6
DEFLECTION LIMIT	L/175 & L/240+1/4"

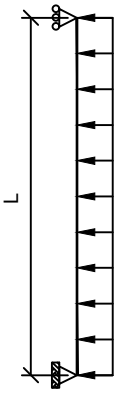
Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

HP2025
WIND LOAD CHARTS

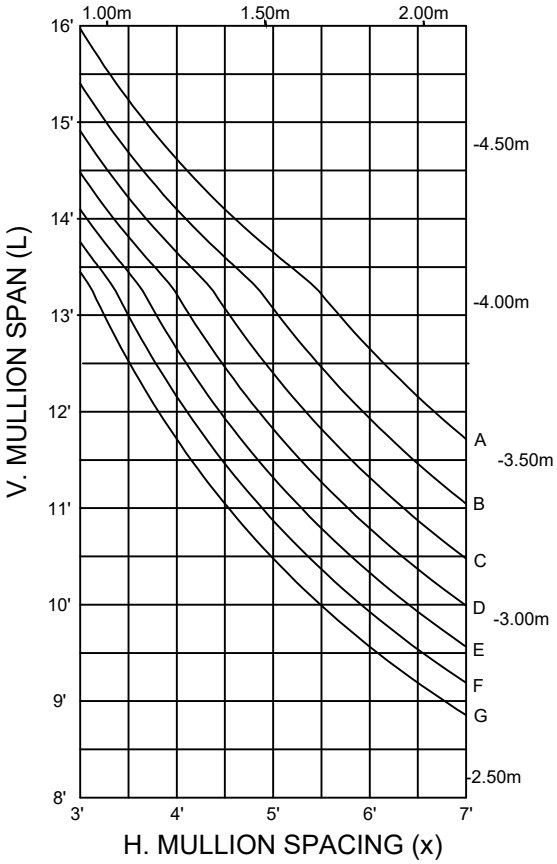
GENERAL NOTES:

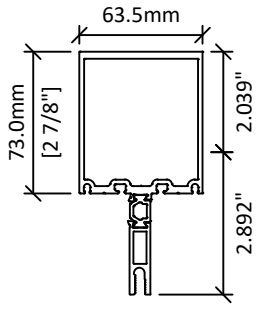
1. REFERENCES IN CALCULATING THE WIND LOAD CHART ARE BASED ON THE NATIONAL BUILDING CODE OF CANADA, AAMA TIR-A11 AND CAN/CSA S157.
2. IT IS ALSO ASSUMED THAT LATERAL BRACING IS PROVIDED IN THE CALCULATION.
3. A 95% CAPACITY WAS APPLIED TO COVER UNCERTAINTIES DUE TO CRIMPING OF POLYAMIDE AND ALUMINUM REGLET.





A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf

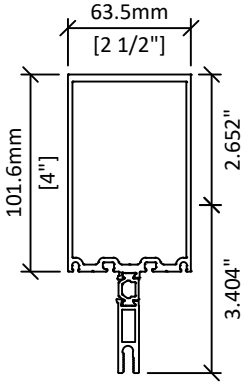




Ix = 3.638 in^4
Sx = 1.258 in^3

21 HP2025-1TRG
2 7/8" B.S.

MATERIAL	ALUMINUM ALLOY 6063-T6
DEFLECTION LIMIT	L/175 & L/240+1/4"



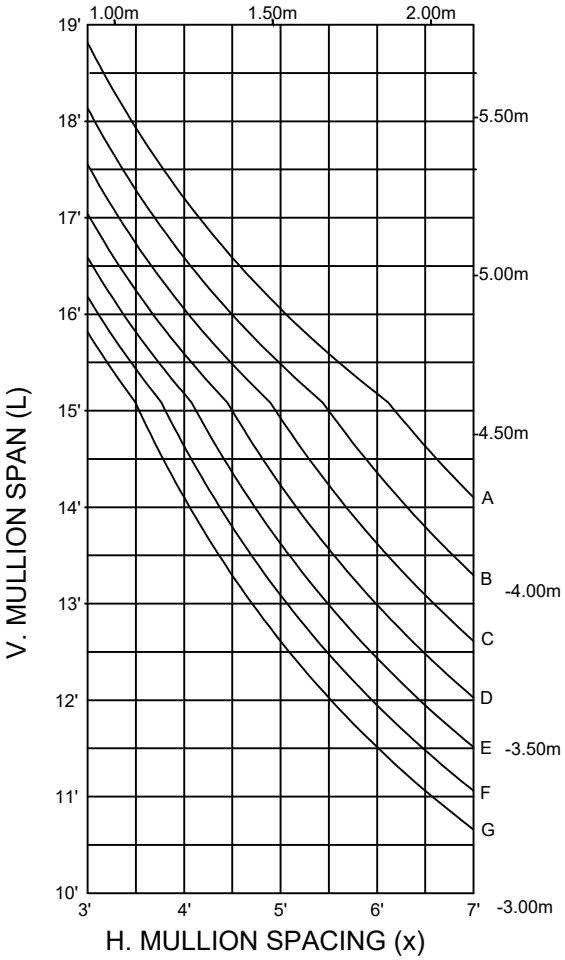
Ix = 6.515 in^4
Sx = 1.914 in^3

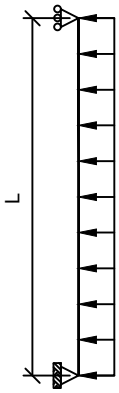
22 HP2025-2TRG
4" B.S.

HP2025
WIND LOAD CHARTS

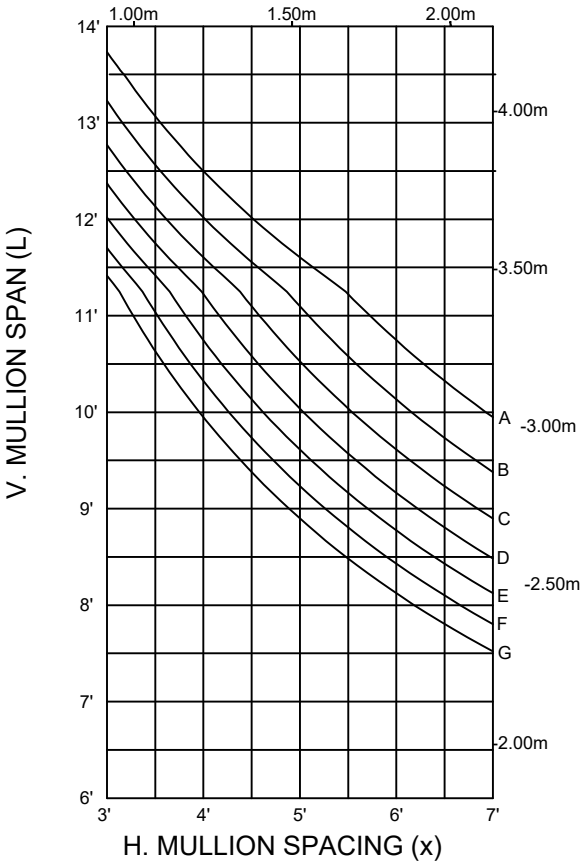
GENERAL NOTES:

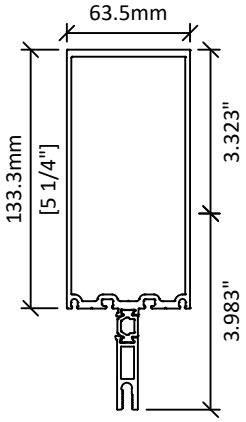
1. REFERENCES IN CALCULATING THE WIND LOAD CHART ARE BASED ON THE NATIONAL BUILDING CODE OF CANADA, AAMA TIR-A11 AND CAN/CSA S157.
2. IT IS ALSO ASSUMED THAT LATERAL BRACING IS PROVIDED IN THE CALCULATION.
3. A 95% CAPACITY WAS APPLIED TO COVER UNCERTAINTIES DUE TO CRIMPING OF POLYAMIDE AND ALUMINUM REGLET.





A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf

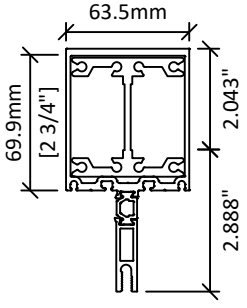




Ix = 11.043 in^4
Sx = 2.773 in^3

23 HP2025-3TRG
5 1/4" B.S.

MATERIAL	ALUMINUM ALLOY 6063-T6
DEFLECTION LIMIT	L/175 & L/240+1/4"



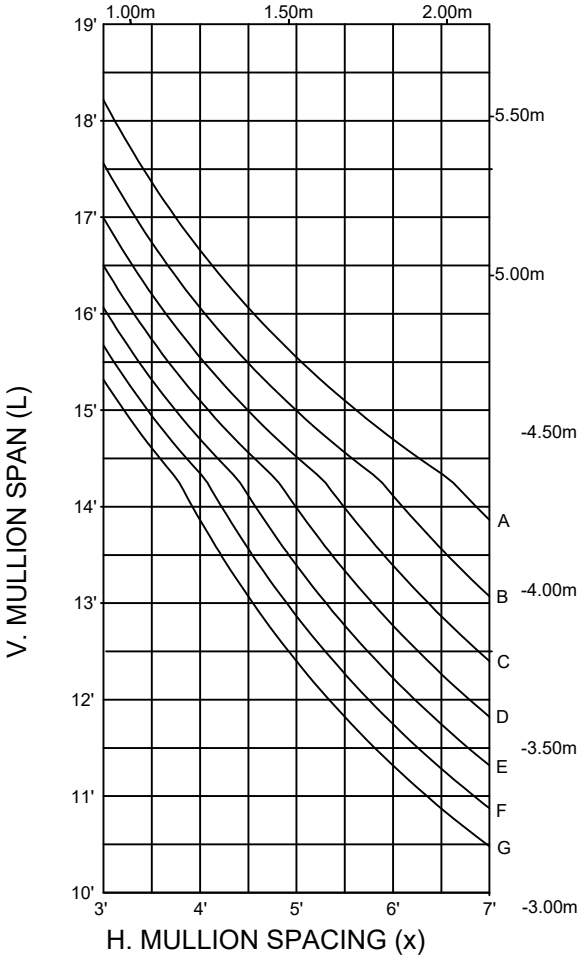
Ix = 3.986 in^4
Sx = 1.380 in^3

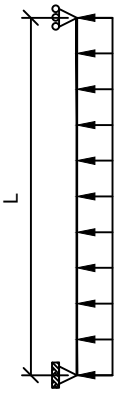
24 HP2025-1TRG-S
2 7/8" B.S.

Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

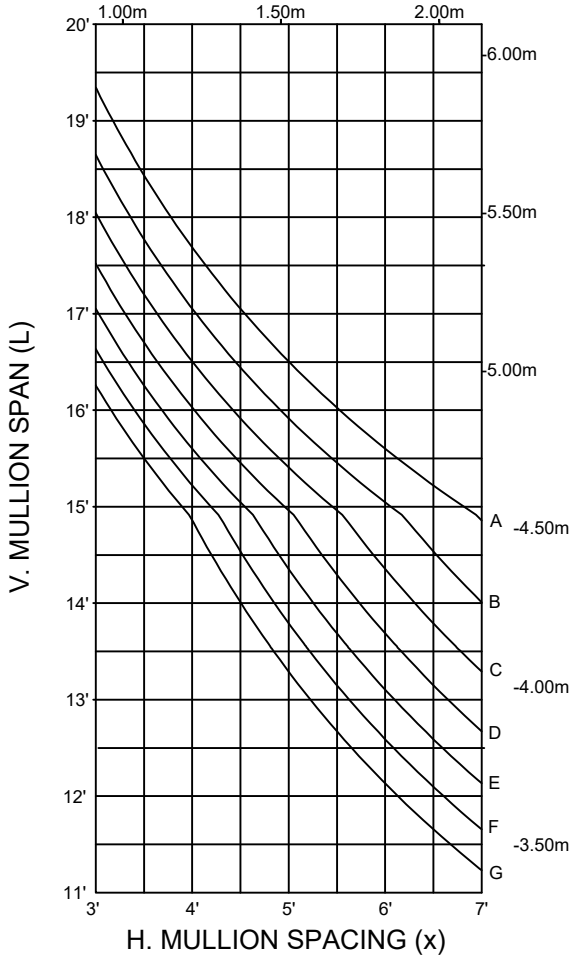
GENERAL NOTES:

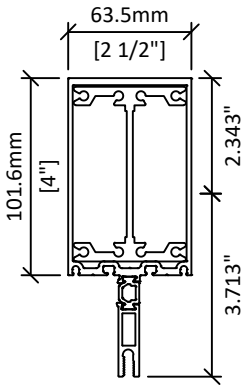
1. REFERENCES IN CALCULATING THE WIND LOAD CHART ARE BASED ON THE NATIONAL BUILDING CODE OF CANADA, AAMA TIR-A11 AND CAN/CSA S157.
2. IT IS ALSO ASSUMED THAT LATERAL BRACING IS PROVIDED IN THE CALCULATION.
3. A 95% CAPACITY WAS APPLIED TO COVER UNCERTAINTIES DUE TO CRIMPING OF POLYAMIDE AND ALUMINUM REGLET.





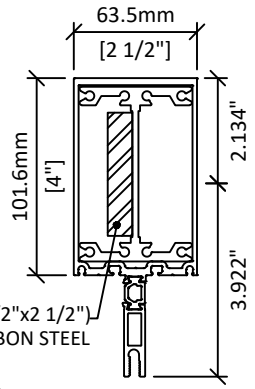
A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf





Ix = 9.953 in^4
Sx = 2.680 in^3

25 HP2025-2TRG-S
4" B.S.



Ix = 12.076 in^4
Sx = 3.079 in^3

26 HP2025-2TRG-S1
4" B.S.

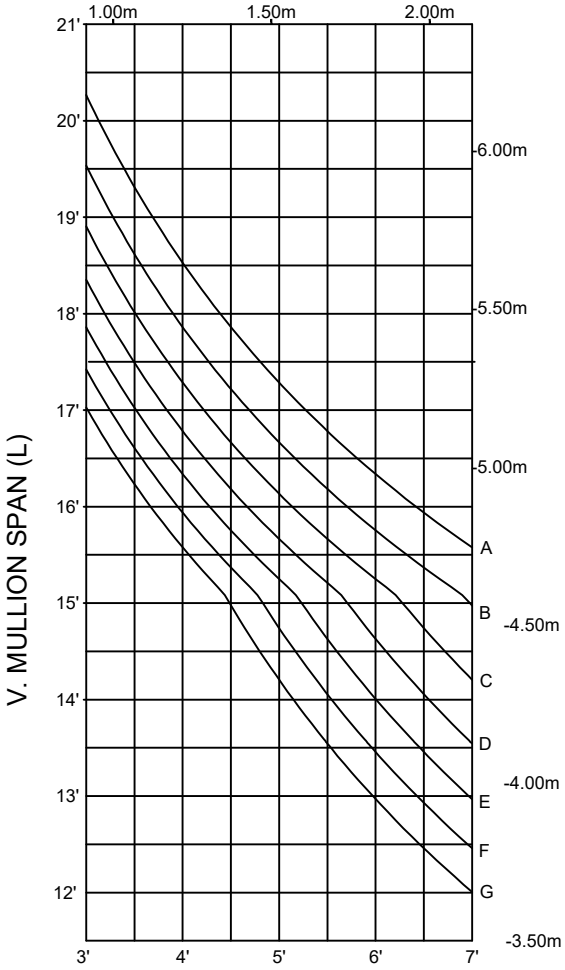
MATERIAL	ALUMINUM ALLOY 6063-T6
DEFLECTION LIMIT	L/175 & L/240+1/4"

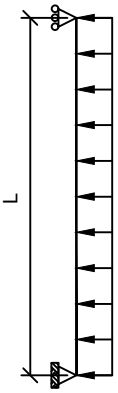
Bay 108 - 1626 115 Ave. N.E. Calgary, Alberta T3K 2E4
Phone: 403-250-9290 Fax: 403-291-0599
www.metroglass.ca

HP2025
WIND LOAD CHARTS

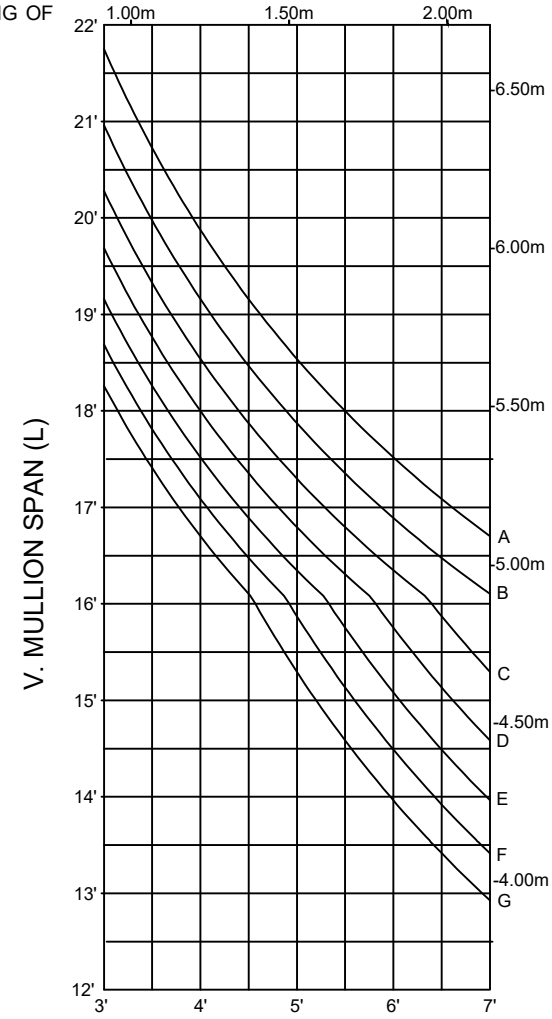
GENERAL NOTES:

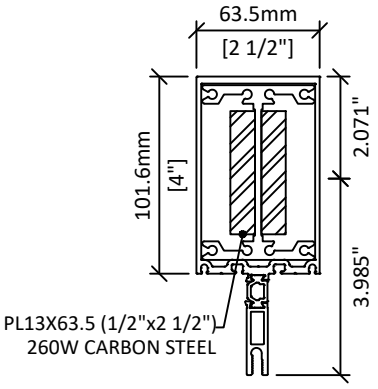
1. REFERENCES IN CALCULATING THE WIND LOAD CHART ARE BASED ON THE NATIONAL BUILDING CODE OF CANADA, AAMA TIR-A11 AND CAN/CSA S157.
2. IT IS ALSO ASSUMED THAT LATERAL BRACING IS PROVIDED IN THE CALCULATION.
3. A 95% CAPACITY WAS APPLIED TO COVER UNCERTAINTIES DUE TO CRIMPING OF POLYAMIDE AND ALUMINUM REGLET.





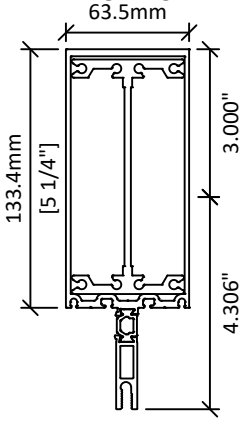
A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf





Ix = 14.018 in^4
Sx = 3.518 in^3

27 HP2025-2TRG-S2
4" B.S.



Ix = 17.562 in^4
Sx = 4.078 in^3

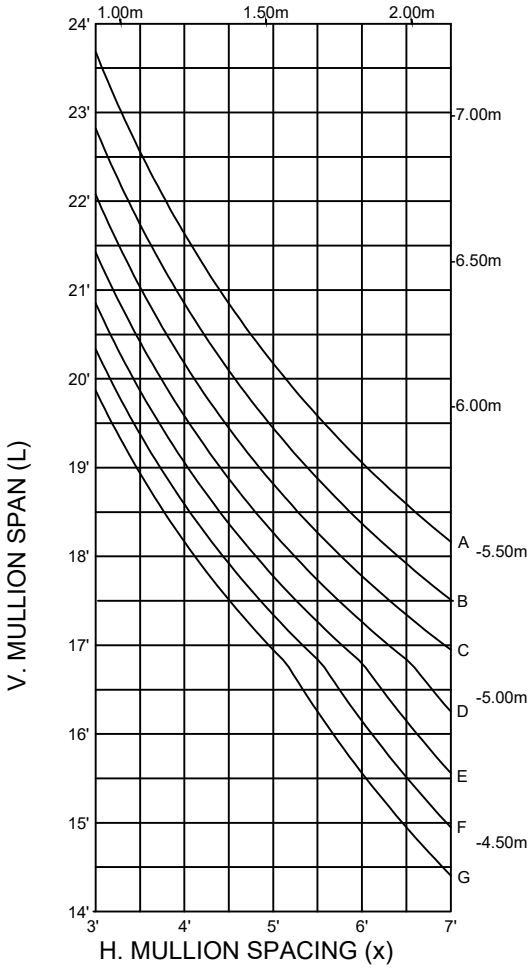
28 HP2025-3TRG-S
5 1/4" B.S.

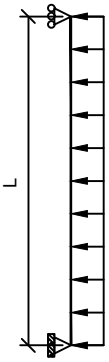
MATERIAL	ALUMINUM ALLOY 6063-T6
DEFLECTION LIMIT	L/175 & L/240+1/4"

HP2025
WIND LOAD CHARTS

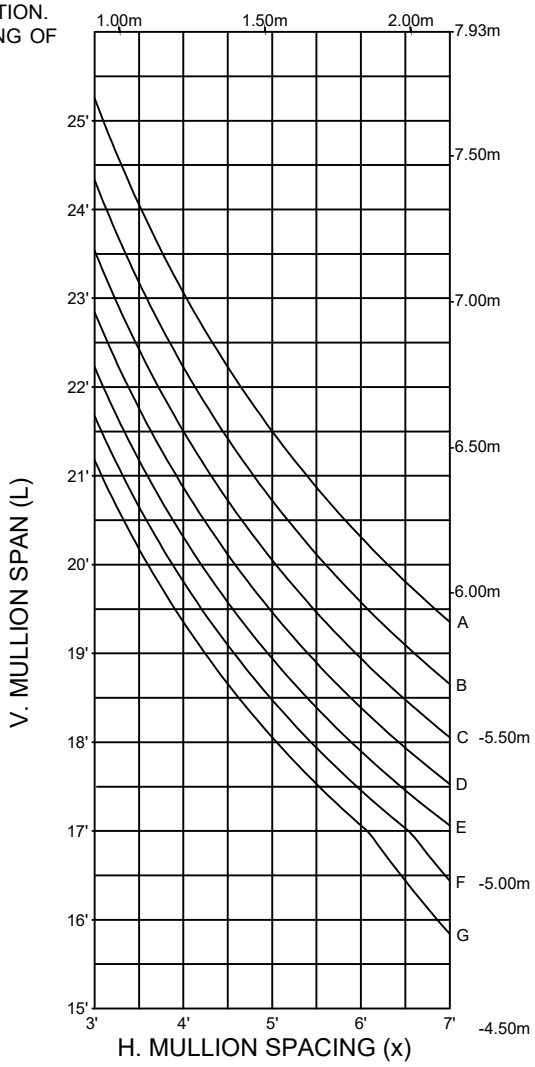
GENERAL NOTES:

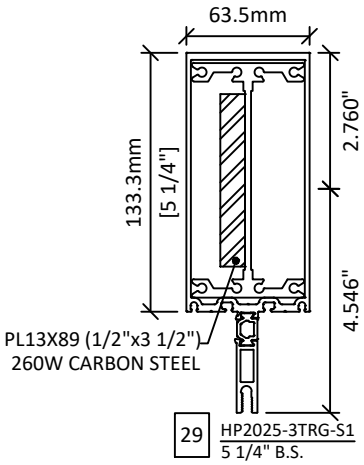
1. REFERENCES IN CALCULATING THE WIND LOAD CHART ARE BASED ON THE NATIONAL BUILDING CODE OF CANADA, AAMA TIR-A11 AND CAN/CSA S157.
2. IT IS ALSO ASSUMED THAT LATERAL BRACING IS PROVIDED IN THE CALCULATION.
3. A 95% CAPACITY WAS APPLIED TO COVER UNCERTAINTIES DUE TO CRIMPING OF POLYAMIDE AND ALUMINUM REGLET.





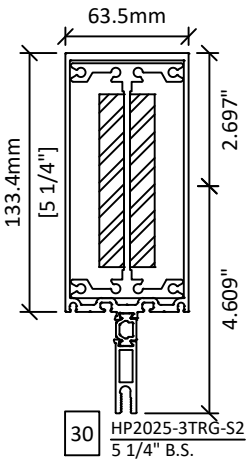
A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf





Ix = 23.024 in^4
Sx = 5.065 in^3

29 HP2025-3TRG-S1
5 1/4" B.S.



Ix = 28.225 in^4
Sx = 6.124 in^3

30 HP2025-3TRG-S2
5 1/4" B.S.

MATERIAL	ALUMINUM ALLOY 6063-T6
DEFLECTION LIMIT	L/175 & L/240+1/4"