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 "HP2020" Series framing system.

Design & Performance

HP2020 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.

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LAYTON CONSULTING LTD. British Columbia ● Alberta ● Saskatchewan ● Ontario NWT ● Washington	Project: **Metro HP2020 CW U-value Report**				Project No: 1256-15758	
	Sections: Metro HP2020 Curtainwall with Pressure Plate				Client: Metro Glass	
	Calc. by: TW	Date: July, 2020	Chk'd by: IC	Date: July, 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
HP2020 2.75" PP	1.736	0.306	0.362	0.647
HP2020 4.00" PP	1.751	0.309	0.362	0.646
HP2020 5.25" PP	1.767	0.311	0.363	0.647

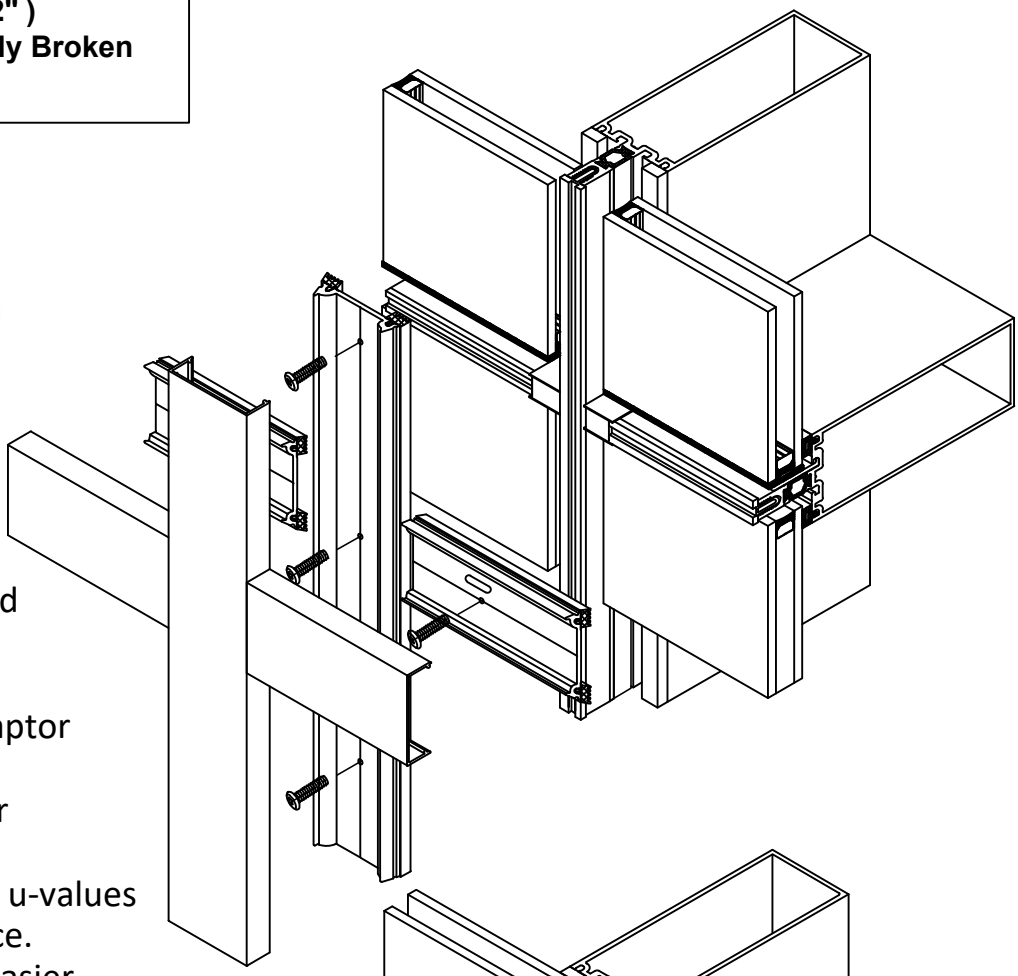
Insulated Glass Unit:

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

CONCLUSION

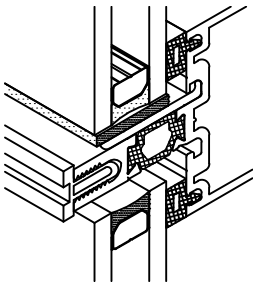
The results of the NFRC U-value calculation for the fenestration systems described above show that for the Standard NFRC sizes, the Metro 2020 Curtainwall with a pressure plate obtained a U-value of 1.736 to 1.767 W/m²·K depending on the depth of the back-section. The Solar Heat Gain Coefficient (SHGC) was calculated to be 0.36 and the Visible Transmittance was calculated to be 0.65.

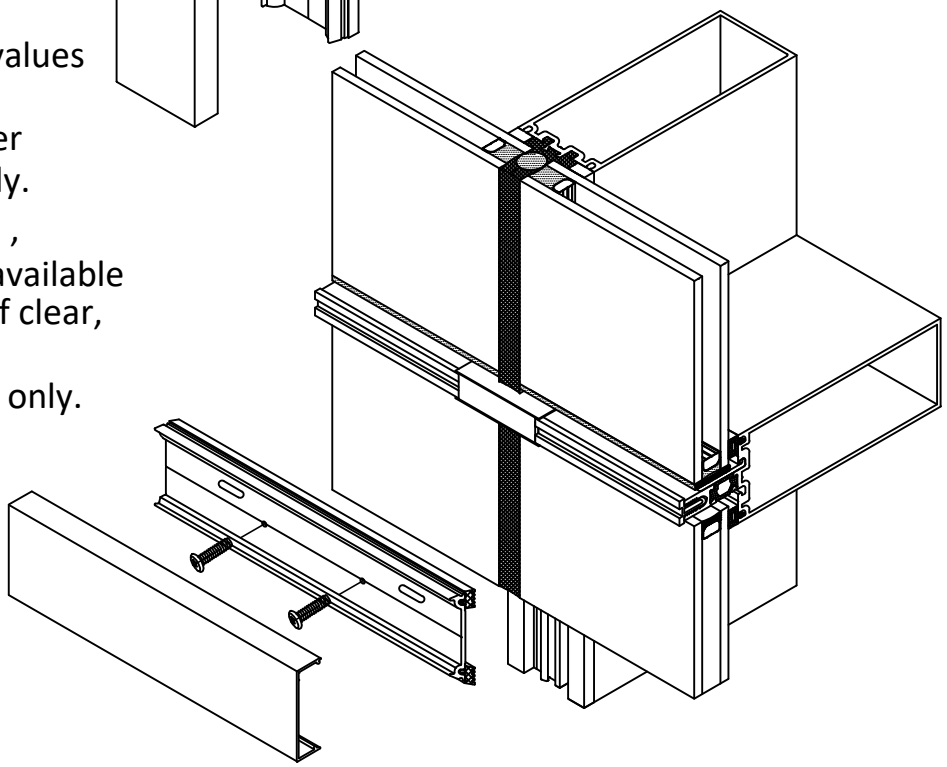
Metro HP2020 Series - 50mm (2")
Sight Line Profile True Thermally Broken
Curtain Wall System



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.
*Comes with a thermally bridged 25mm (1") door adaptor or Flush 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 70mm (2 ¾") , 102mm (4") & 133mm (5 ¼") available
*Available in **CLASS 1** finishes of clear, bronze and black anodized.
*Custom paint colors on request only.





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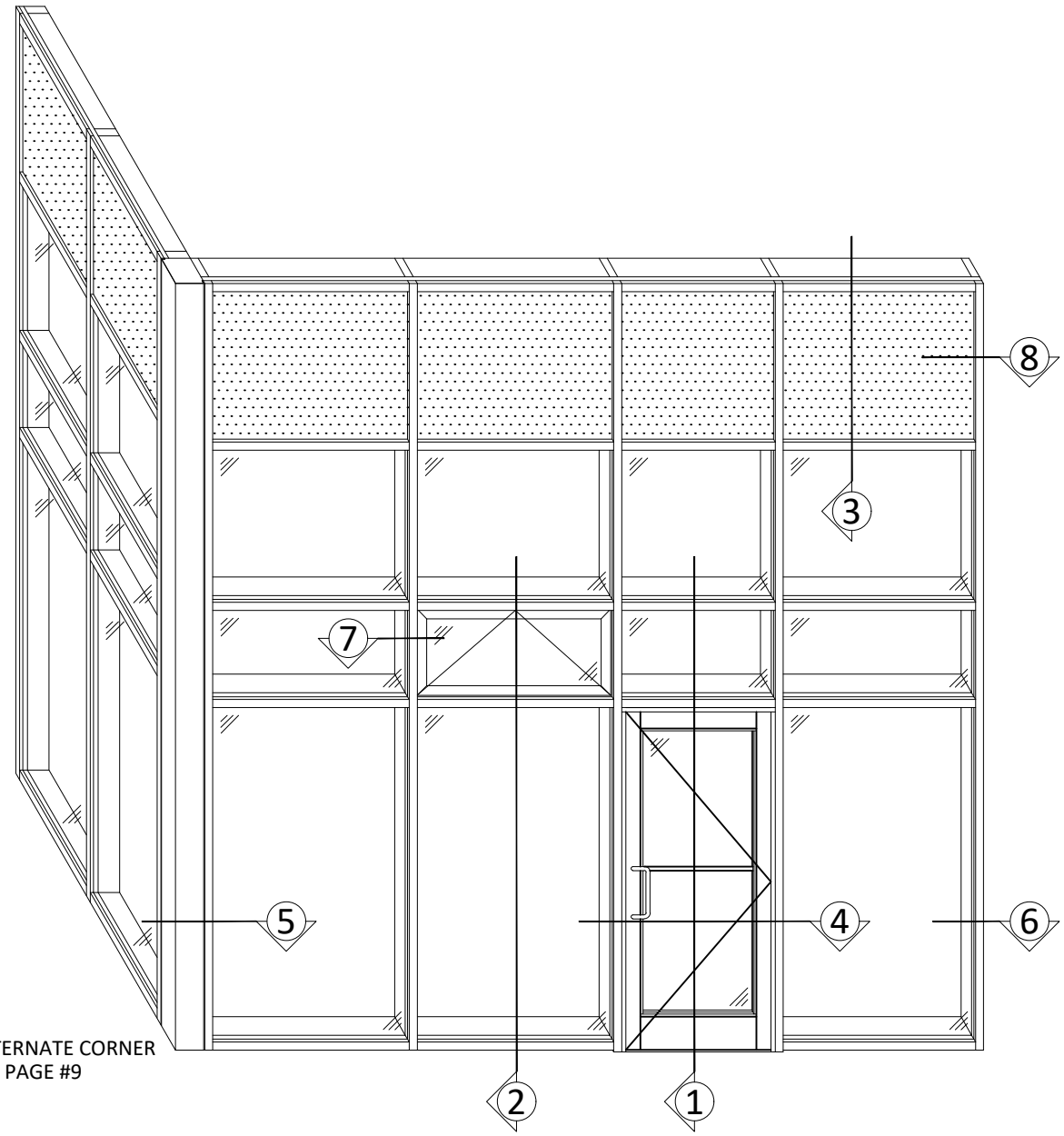
HP2020 CURTAIN WALL



ALTERNATE CORNER
SEE PAGE #9

HP2020 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 50mm (2") SIGHT LINE DESIGN FOR SINGLE OR MULTI STORY BUILDING APPLICATIONS. BACK SECTIONS ARE AVAILABLE IN VARIOUS DEPTHS TO MEET WINDLOADS REQUIREMENTS.

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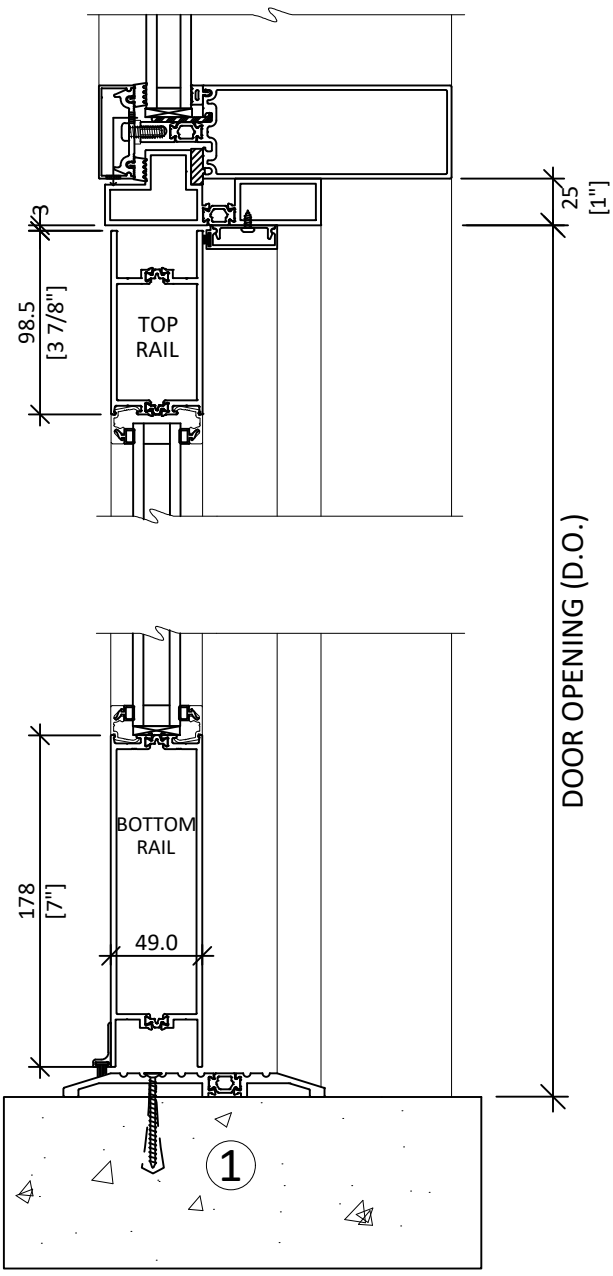
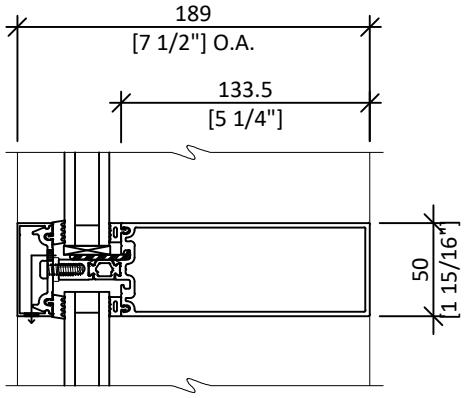
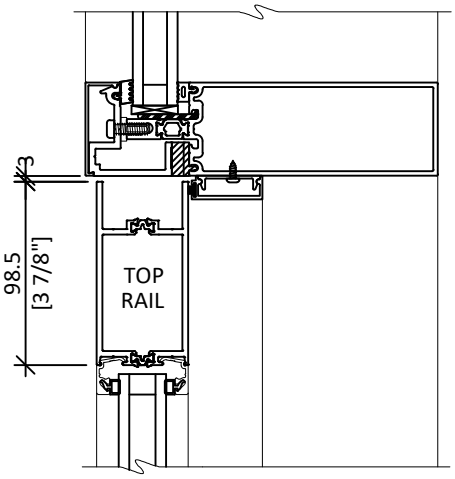
HP2020 CURTAIN WALL SECTION DETAILS



THERMAL PERFORMANCE DOOR
CROSS SECTION





FLUSH DOOR ADAPTOR
FOR DUAL GLAZE SYSTEM ONLY

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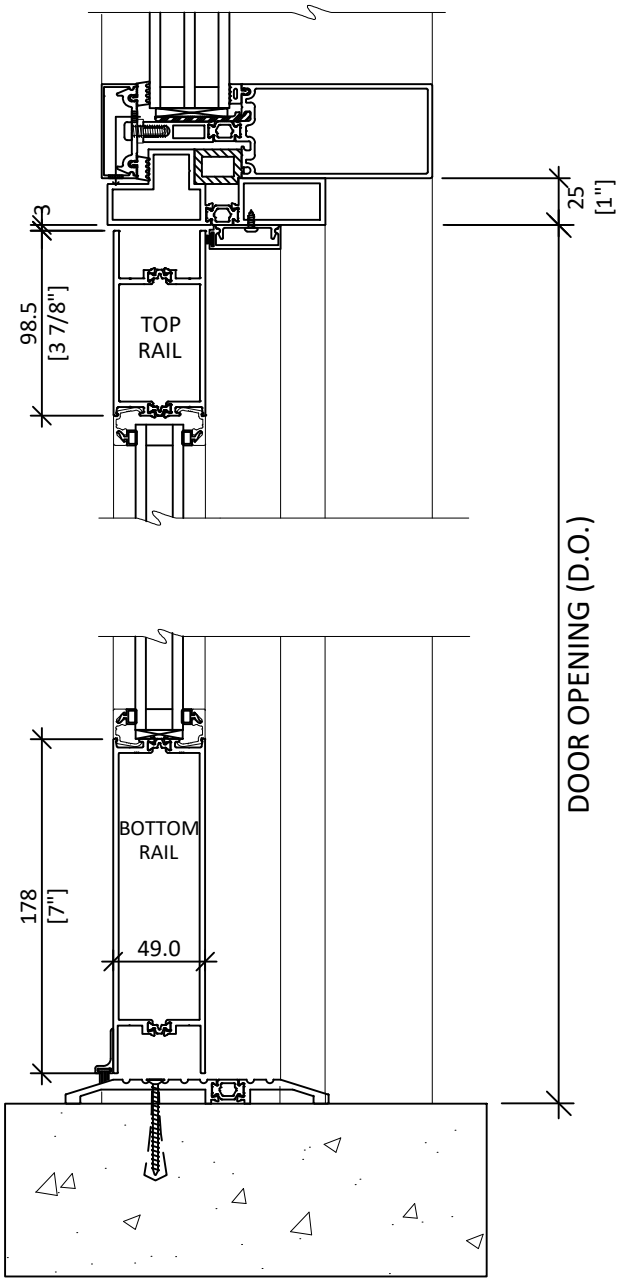
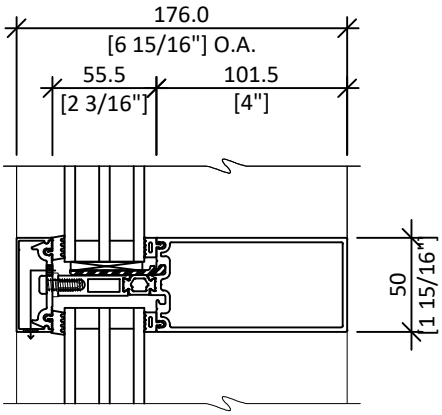
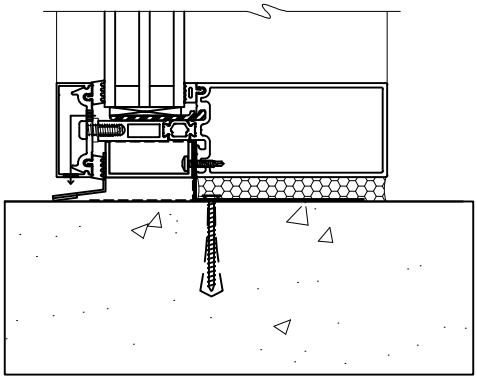
HP2020 TRG CURTAIN WALL SECTION DETAILS

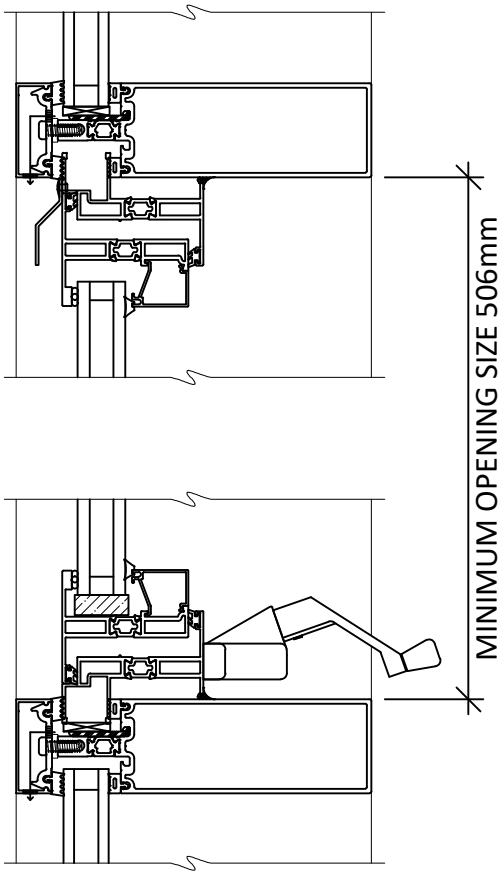


THERMAL PERFORMANCE DOOR
CROSS SECTION

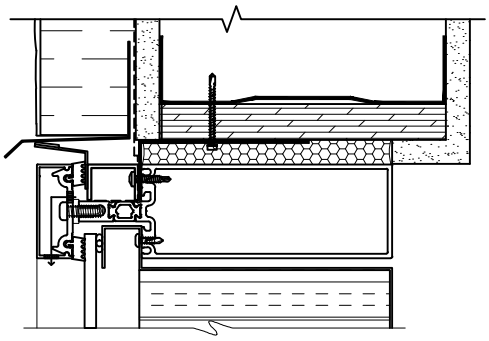


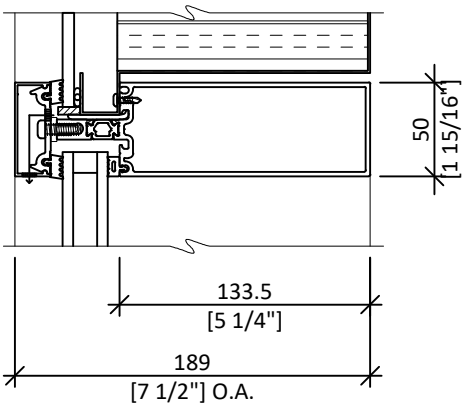


HP2020 CURTAIN WALL SECTION DETAILS



HP2020 SERIES WITH HP GOLIATH SERIES VENT INSERT





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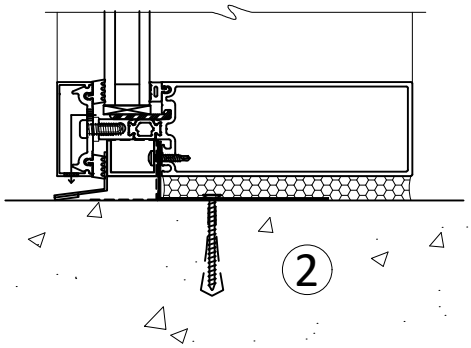

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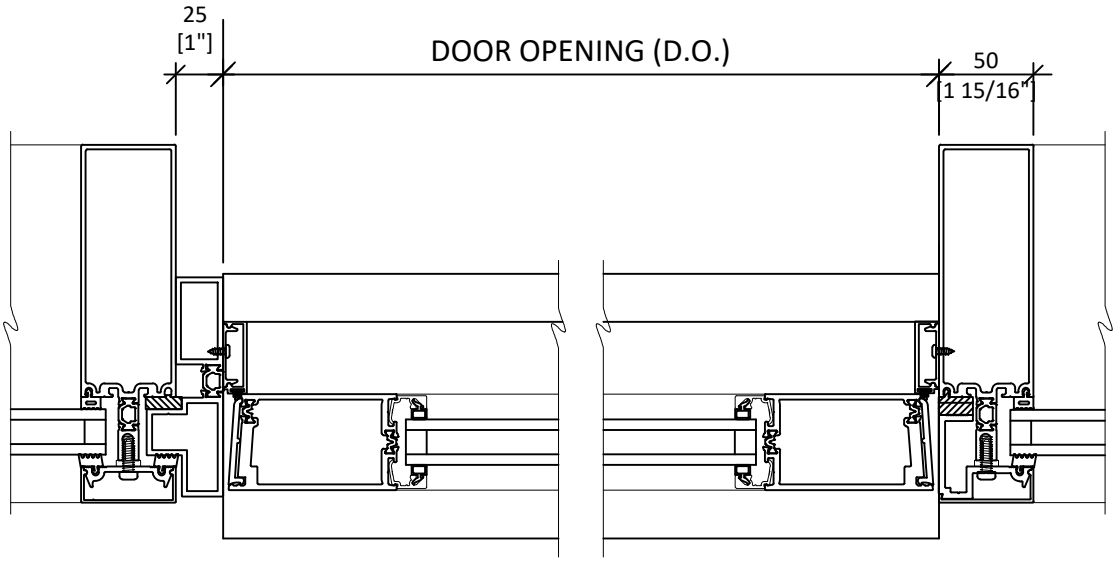
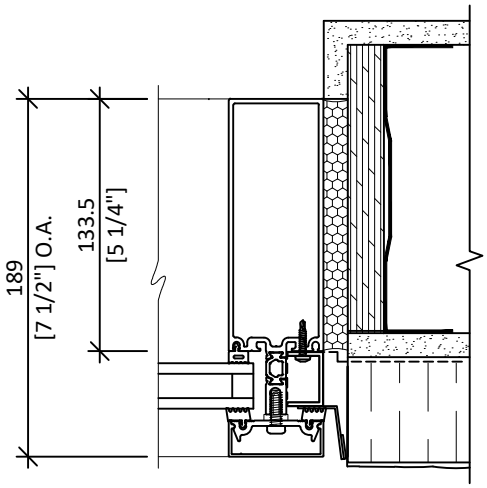


THERMAL PERFORMANCE DOOR ADAPTOR

4

FLUSH DOOR ADAPTOR



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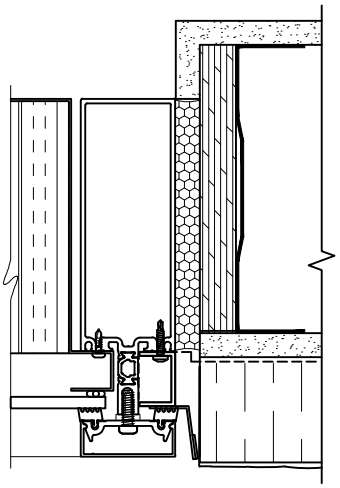

8

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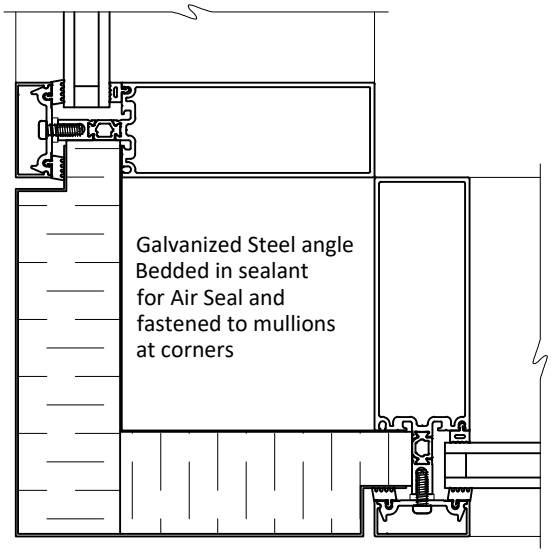
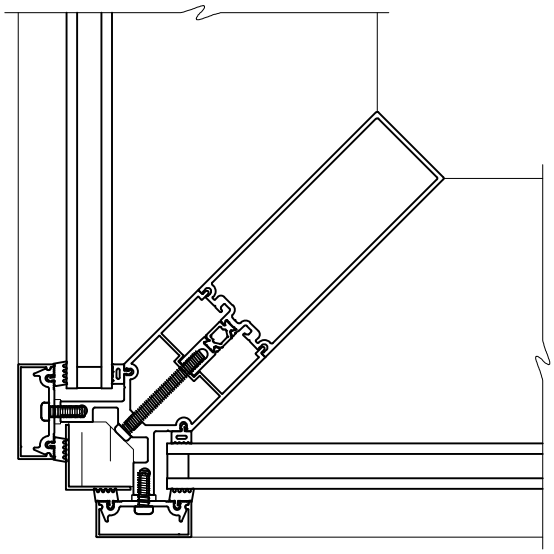
HP2020 CURTAIN WALL PLAN DETAILS

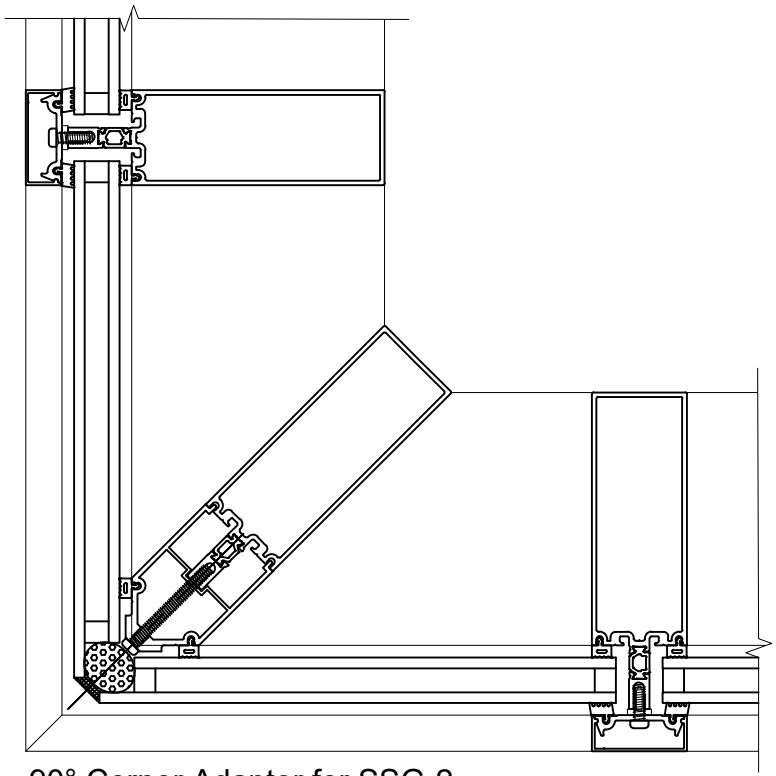


90° Corner Panel
c/w Styrofoam Insulation and
Flashing to match frame

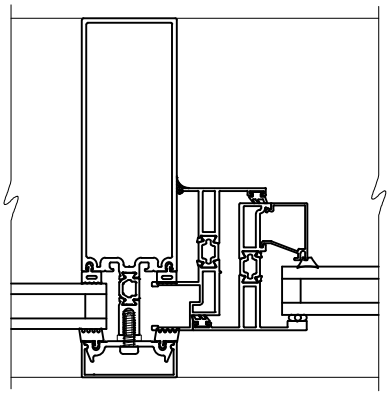
5



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



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



HP2020 SERIES WITH HP GOLIATH
SERIES VENT INSERT

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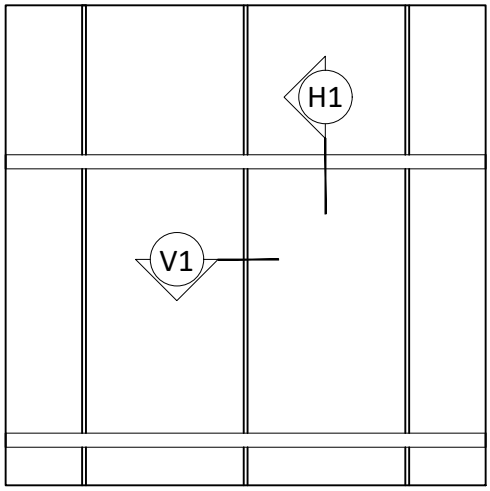
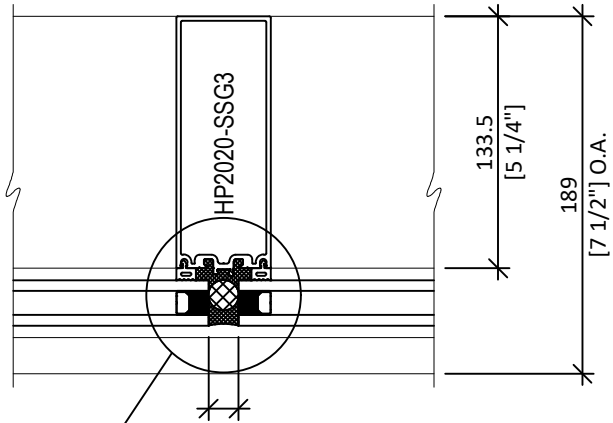
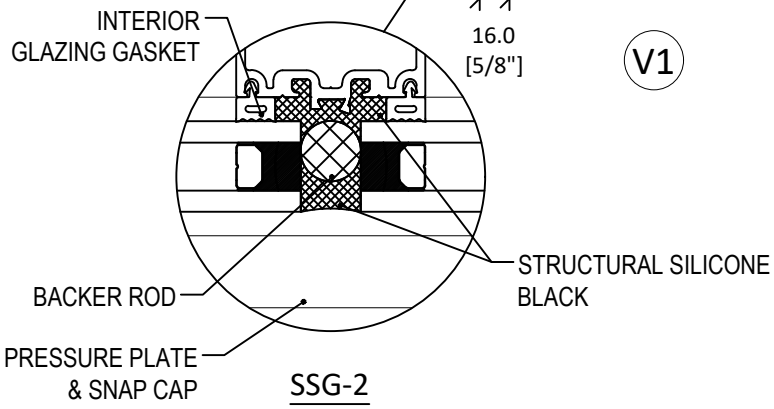
HP2020-SSG-2 CURTAIN WALL

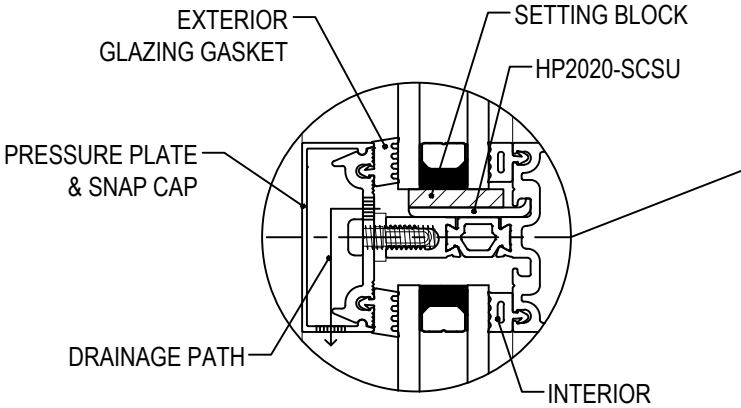


2-SIDE STRUCTURAL GLAZING

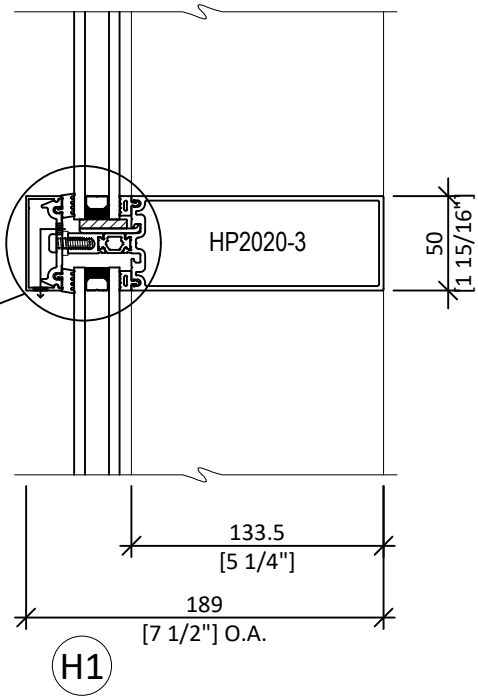




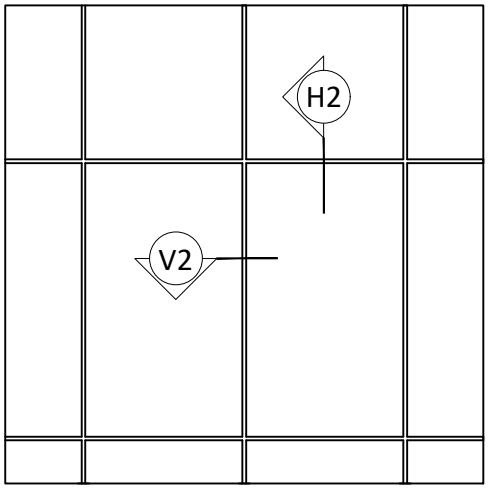
SSG-2 GLAZING DETAIL



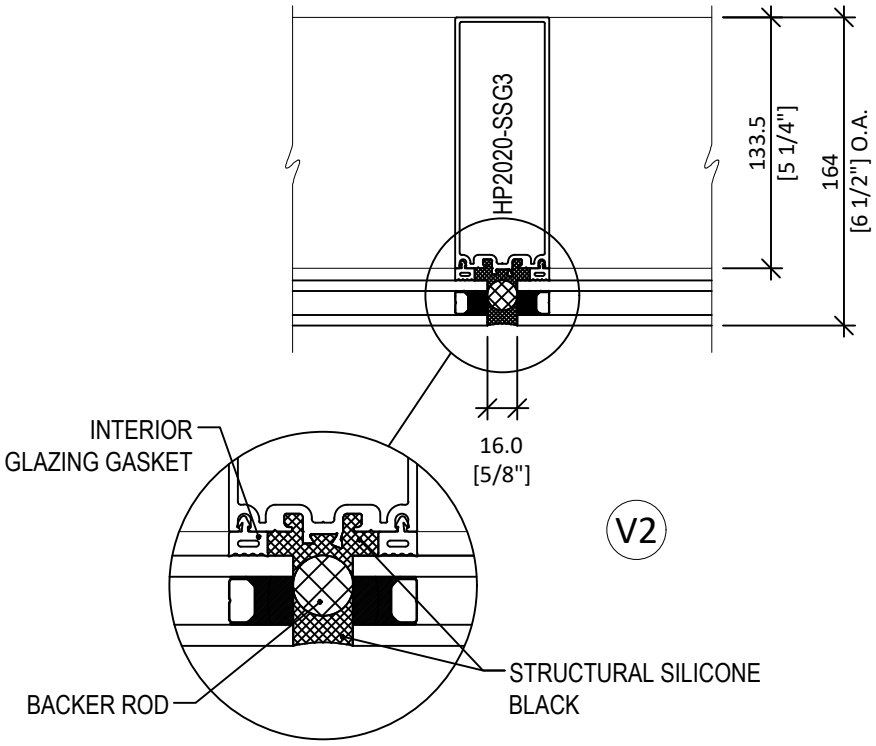
SSG-2 GLAZING DETAIL



HP2020-SSG-4 CURTAIN WALL

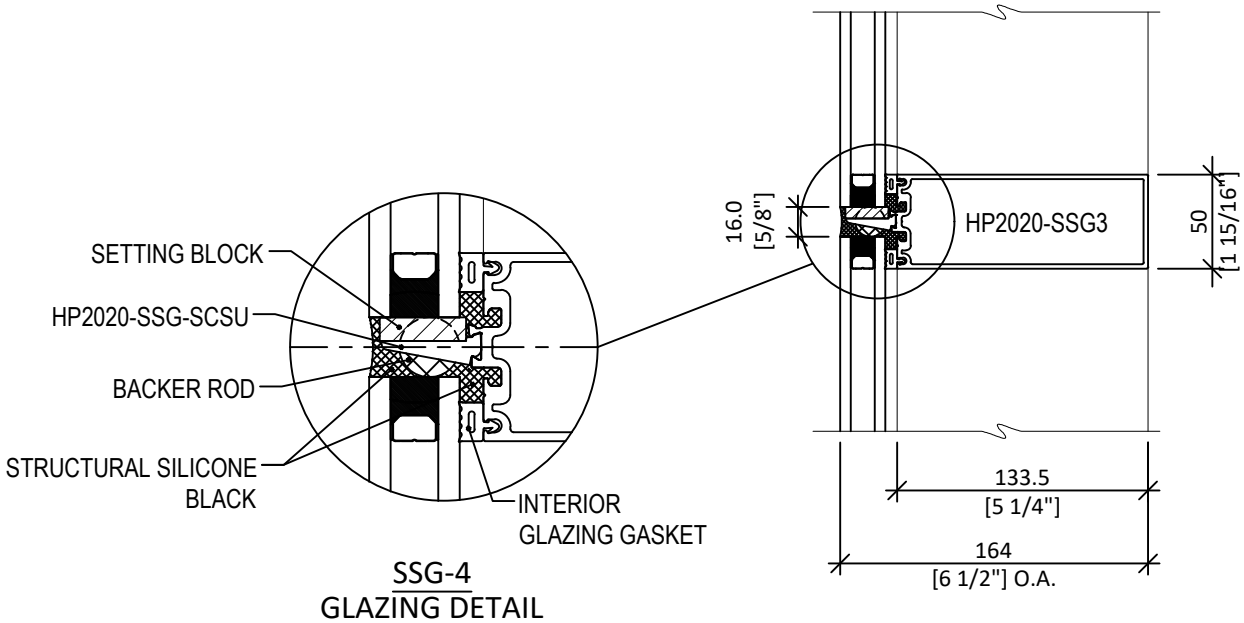


4-SIDE STRUCTURAL GLAZING



V2

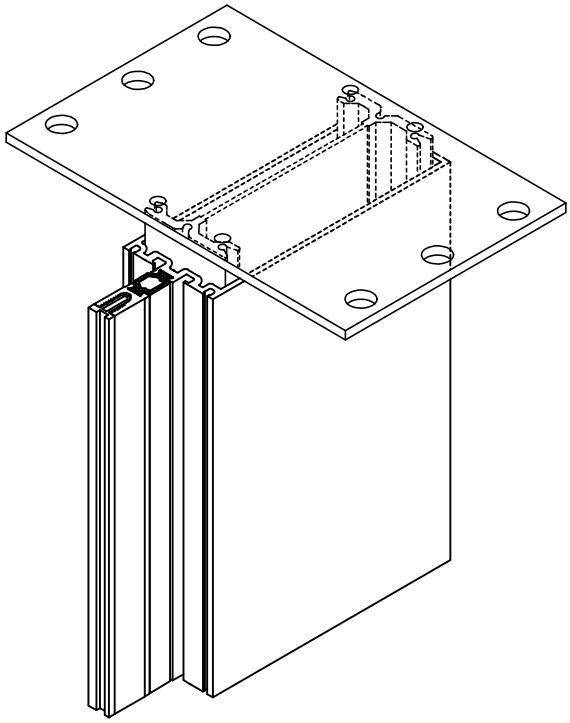
SSG-4
GLAZING DETAIL



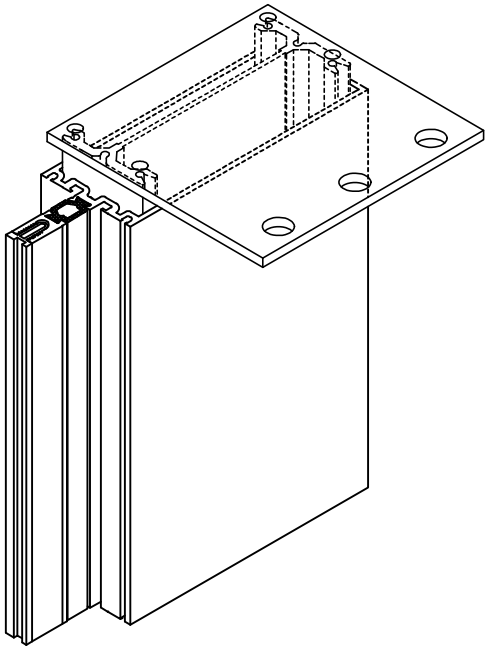
SSG-4
GLAZING DETAIL

H2

HP2020 CURTAIN WALL
TOP AND BOTTOM SLIP ANCHORS



T ANCHOR



SIDE ANCHOR

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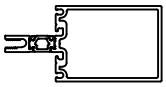
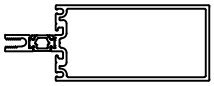
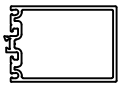
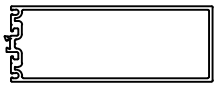
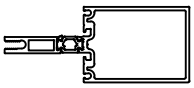
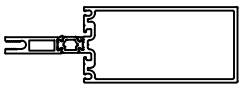
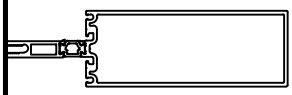
HP2020 CURTAIN WALL PARTS

CROSS SECTION	PART #	DESCRIPTION	STOCK LENGTH	CLEAR ANODIZED	BRONZE ANODIZED	BLACK ANODIZED
	HP2020-1	2" x 2 3/4" BACK SECTION (50mm x 70mm)	7.315 m	✓	✓	✓
	HP2020-2	2" x 4" BACK SECTION (50mm x 102mm)	7.315 m	✓	✓	✓
	HP2020-3	2" x 5 1/4" BACK SECTION (50mm x 133.35mm)	7.315 m	✓	✓	✓
	HP2020-SSG1	2" x 2 3/4" BACK SECTION (50mm x 70mm)	7.315 m	✓	✓	✓
	HP2020-SSG2	2" x 4" BACK SECTION (50mm x 102mm)	7.315 m	✓	✓	✓
	HP2020-SSG3	2" x 5 1/4" BACK SECTION (50mm x 133.35mm)	7.315 m	✓	✓	✓
	HP2020-1TRG	2" x 2 3/4" BACK SECTION (50mm x 70mm)	7.315 m	✓	✓	✓
	HP2020-2TRG	2" x 4" BACK SECTION (50mm x 102mm)	7.315 m	✓	✓	✓
	HP2020-3TRG	2" x 5 1/4" BACK SECTION (50mm x 133.35mm)	7.315 m	✓	✓	✓
	HP2020 -SCSU	CAPTURED SILL CHAIR ON SU	4.6 m	MILL FINISH ALUMINUM ALLOY (CUT TO 100mm PIECES)		
	HP2020 -SCTG	CAPTURED SILL CHAIR ON TG	4.6 m			
	HP2020 SSG-SCSU	SEALED UNIT SILL CHAIR ON SSG	4.6 m			
	HP2020 SSG-SCTG	TRIPLE GLAZED SILL CHAIR ON SSG	4.6 m			

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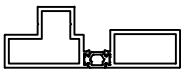
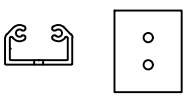
HP2020 CURTAIN WALL PARTS

CROSS SECTION	PART #	DESCRIPTION	STOCK LENGTH	CLEAR ANODIZED	BRONZE ANODIZED	BLACK ANODIZED
	2.0-C	3/4" X 2" SNAP CAP (19mm X 50mm)	7.315 m	✓	✓	✓
	2.0-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		
	HP20-FDAC	FLUSH DOOR ADAPTOR CAP	4.6 m	✓	✓	✓
	HP20-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		
	HP2020-SB1 HP2020-SB2 HP2020-SB3	PREP SHEAR BLOCK	4.6 m	MILL FINISH (CUT TO VARIABLE LENGTHS)		

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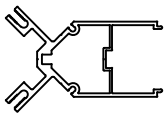
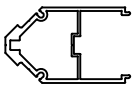
HP2020 CURTAIN WALL PARTS

CROSS SECTION	PART #	DESCRIPTION	STOCK LENGTH	CLEAR ANODIZED	BRONZE ANODIZED	BLACK ANODIZED
	2.0-CCA	90° CAPTURED CORNER ADAPTOR	7.315 m	✓	✓	✓
	2.0-SSGCA	90° SSG CORNER ADAPTOR	7.315 m	✓	✓	✓
1/4" - 20 x 11/16"		MACHINE SCREWS	100 pcs	PLATED		
	3/16" 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		

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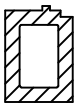
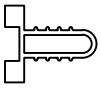
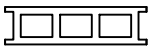
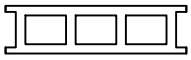
CROSS SECTION	PART #	DESCRIPTION	STOCK LENGTH	FINISH
	DAS #1	1/8" DOOR ADAPTOR SPACER	2.2 m	RIDGID BLACK PVC
	DAS #2	1/4" DOOR ADAPTOR SPACER	3.2 m	RIDGID BLACK PVC
	DAS #3	1" DOOR ADAPTOR SPACER FOR TRIPLE GLAZED SYSTEM	2.2 m	RIDGID BLACK PVC
	Q183H	INTERIOR GLAZING GASKET	125 m ROLLS	SILICONE BLACK - 60 DUROMETER
	EP1752H	EXTERIOR GLAZING GASKET	100 m ROLLS	EPDM BLACK - 70 DUROMETER
	EP1846H	THERMAL BREAK	3.65 m	EPDM BLACK - 70 DUROMETER
	EP2103H	CORNER BLOCK 36.5mm HEIGHT	EACH	EPDM BLACK - 70 DUROMETER
	EP2103H-TRG	TRG CORNER BLOCK 52mm HEIGHT	EACH	EPDM BLACK - 70 DUROMETER
	EP716N	SSG CORNER BLOCK 36.5mm HEIGHT	EACH	EPDM BLACK - 70 DUROMETER
	EP716N-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

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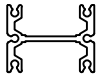
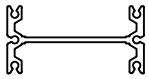
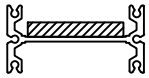
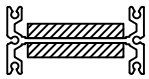
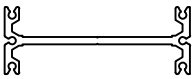
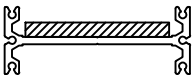
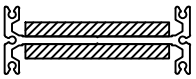
HP2020 CURTAIN WALL PARTS

CROSS SECTION	PART #	DESCRIPTION	STOCK LENGTH	FINISH
	HP2020-1-S	SLIP/REINFORCEMENT ANCHOR (FOR 2 3/4" B.S.)	7.315 m	MILL FINISH ALUMINUM ALLOY
	HP2020-2-S	SLIP/REINFORCEMENT ANCHOR (FOR 4" B.S.)	7.315 m	MILL FINISH ALUMINUM ALLOY
	HP2020-2-S1	SLIP/REINFORCEMENT ANCHOR ILLUSTRATES 3/8" x 2 1/2" STEEL FLAT BAR 1 SIDE		
	HP2020-2-S2	SLIP/REINFORCEMENT ANCHOR ILLUSTRATES 3/8" x 2 1/2" STEEL FLAT BAR BOTH SIDES		
	HP2020-3-S	SLIP/REINFORCEMENT ANCHOR (FOR 5 1/4" B.S.)	7.315 m	MILL FINISH ALUMINUM ALLOY
	HP2020-3-S1	SLIP/REINFORCEMENT ANCHOR ILLUSTRATES 3/8" x 3 3/4" STEEL FLAT BAR 1 SIDE		
	HP2020-3-S2	SLIP/REINFORCEMENT ANCHOR ILLUSTRATES 3/8" x 3 3/4" STEEL FLAT BAR BOTH SIDES		

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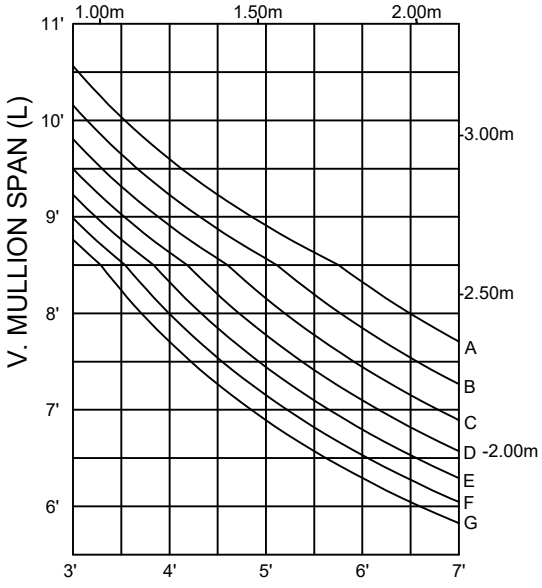
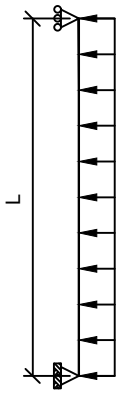
HP2020
WIND LOAD CHARTS

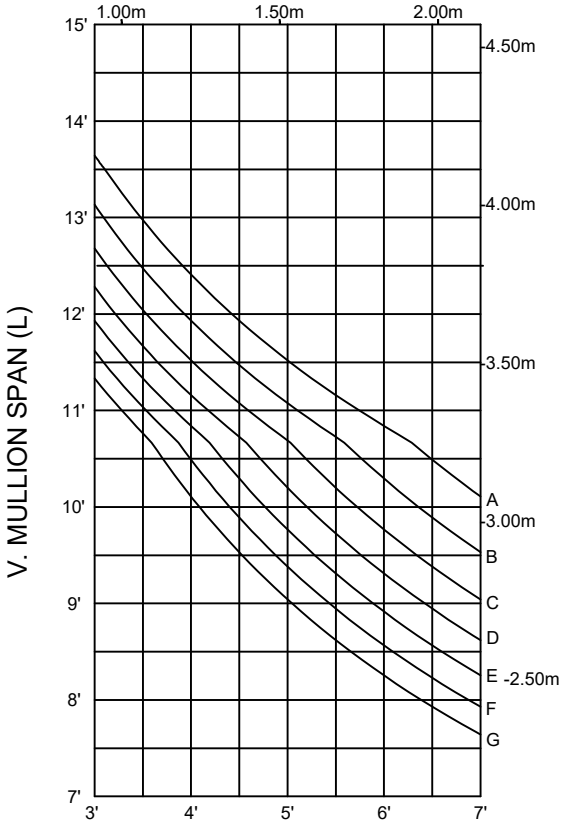
GENERAL NOTES:

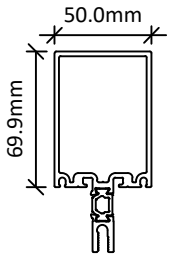
1. REFERENCES IN CALCULATING THE WIND LOAD CHART ARE BASED ON THE NATIONAL BUILDING CODE OF CANADA, AAMA TIR-A11 AND CAN/CSA S157.
2. IT IS ALSO ASSUMED THAT LATERAL BRACING IS PROVIDED IN THE CALCULATION.
3. A 95% CAPACITY WAS APPLIED TO COVER UNCERTAINTIES DUE TO CRIMPING OF POLYAMIDE AND ALUMINUM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





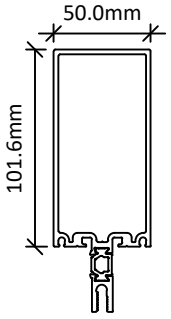
A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf





Ix = 1.805 in^4
Sx = 0.828 in^3

1 HP2020-1 2 3/4" B.S.



Ix = 3.900 in^4
Sx = 1.425 in^3

2 HP2020-2 4" B.S.

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

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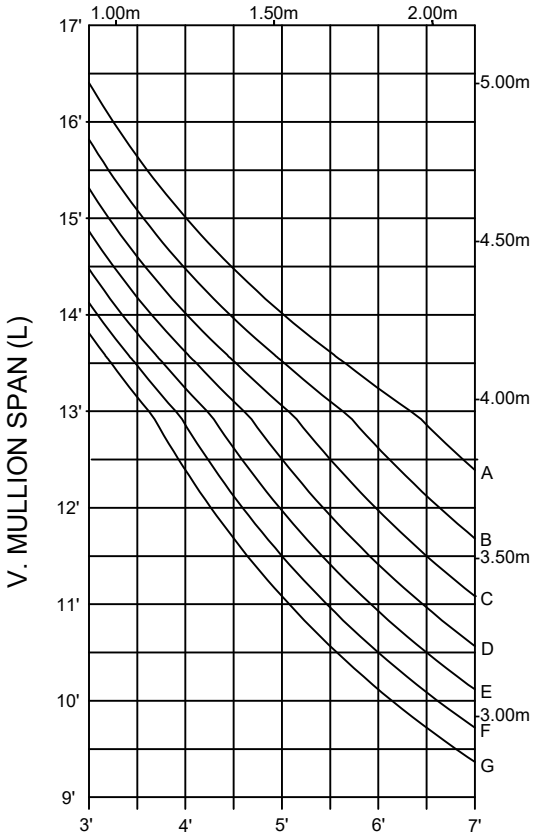

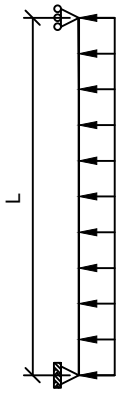

A = 20 psf
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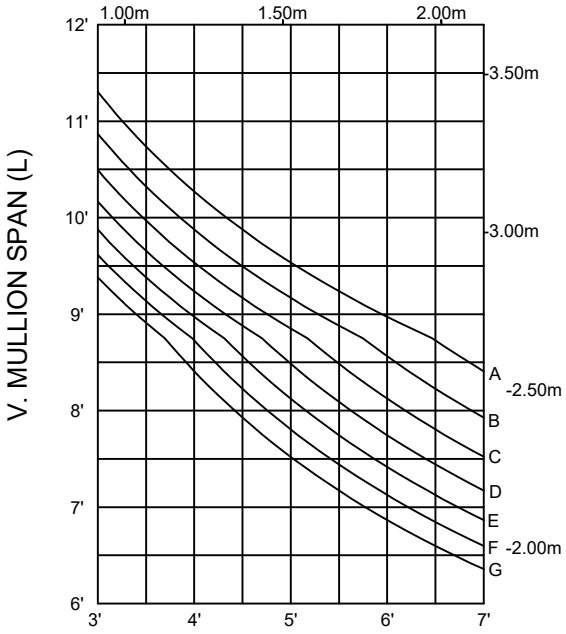
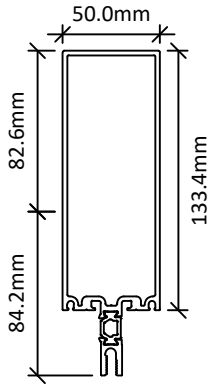
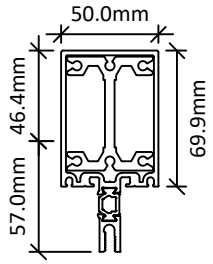
E = 30 psf
F = 32.5 psf
G = 35 psf





Ix = 7.110 in^4
Sx = 2.145 in^3

3 HP2020-3 5 1/4" B.S.



Ix = 2.212 in^4
Sx = 0.986 in^3

4 HP2020-1-S 2 3/4" B.S.

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

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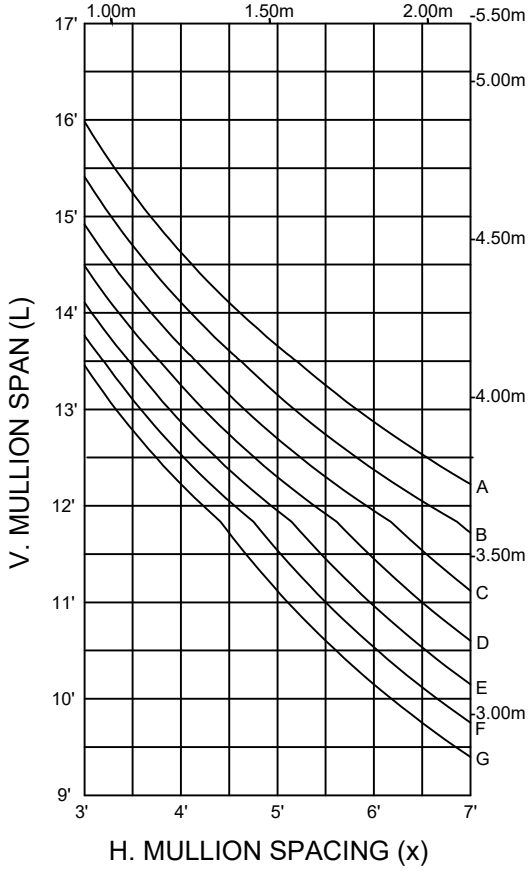
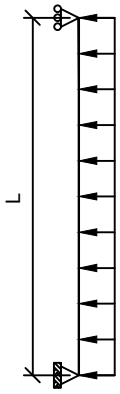
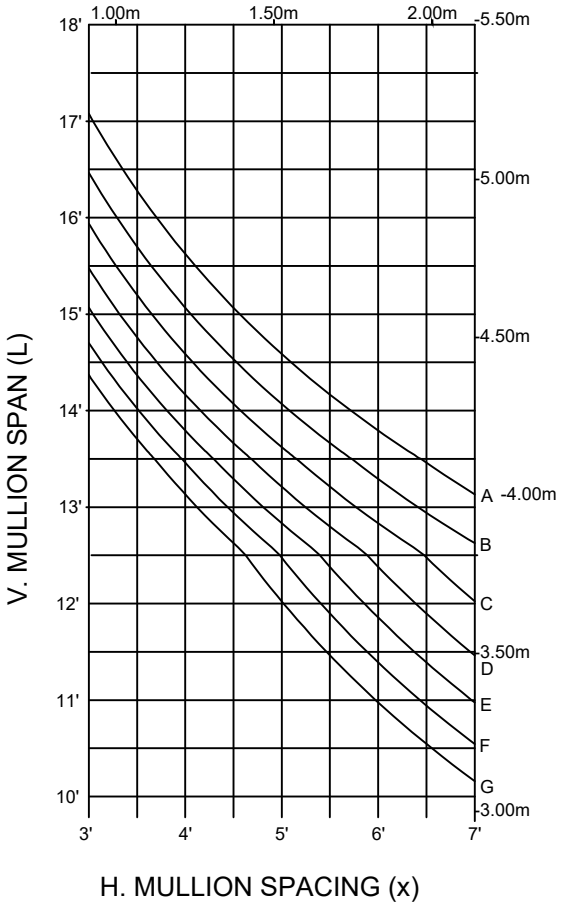
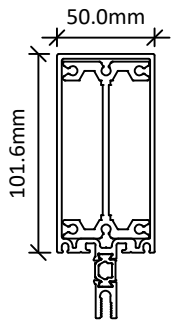




A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf

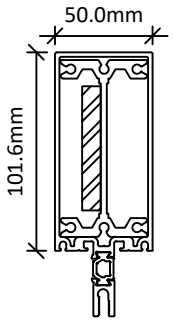




Ix = 6.528 in^4
Sx = 2.155 in^3

5 HP2020-2-S
4" B.S.

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



Ix = 8.088 in^4
Sx = 2.520 in^3

6 HP2020-2-S1
4" B.S.

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HP2020
WIND LOAD CHARTS

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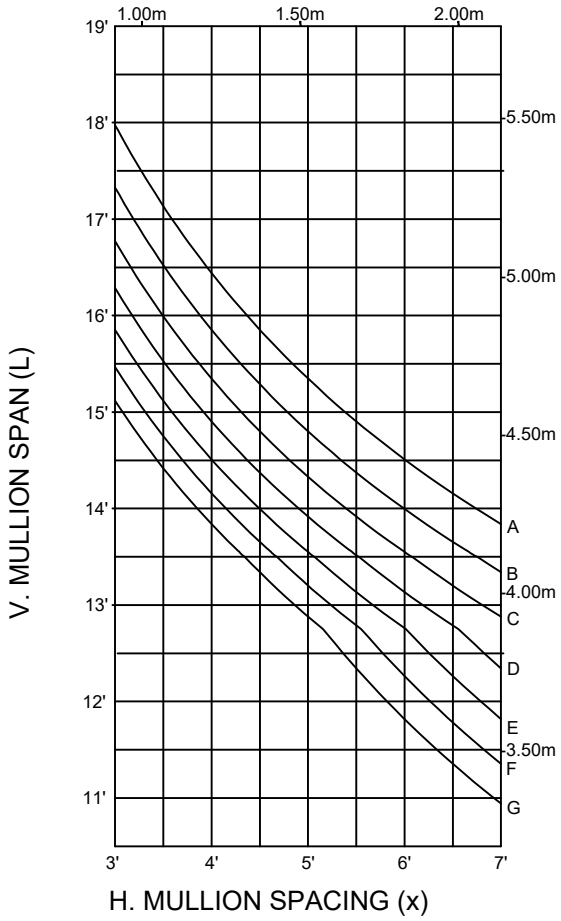

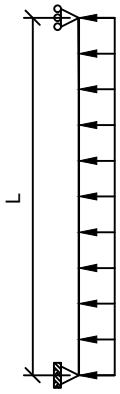

A = 20 psf
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E = 30 psf
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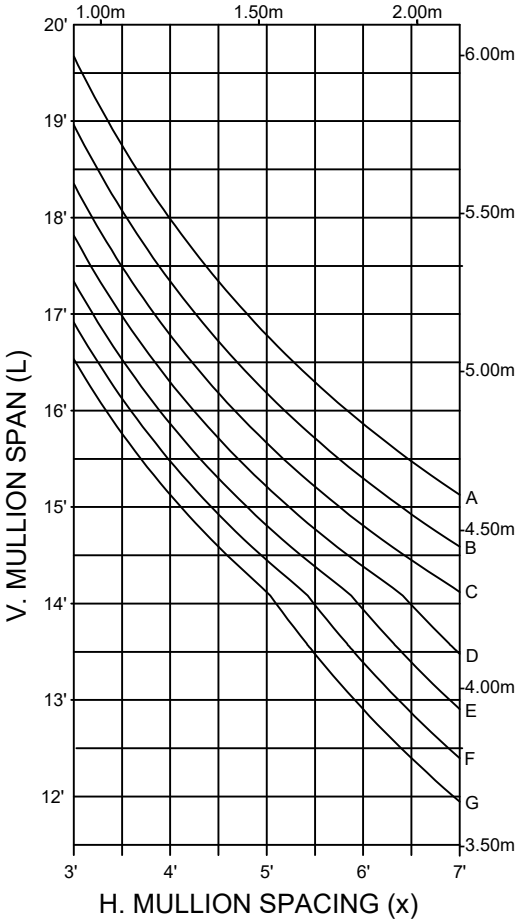
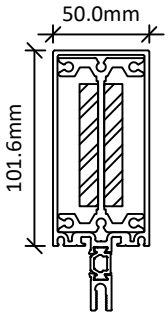
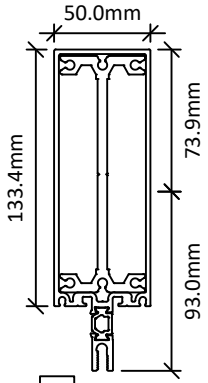
G = 35 psf





Ix = 9.546 in^4
Sx = 2.923 in^3

7 HP20202-2-S2 4" B.S.



Ix = 12.745 in^4
Sx = 3.483 in^3

8 HP2020-3-S 5 1/4" B.S.

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

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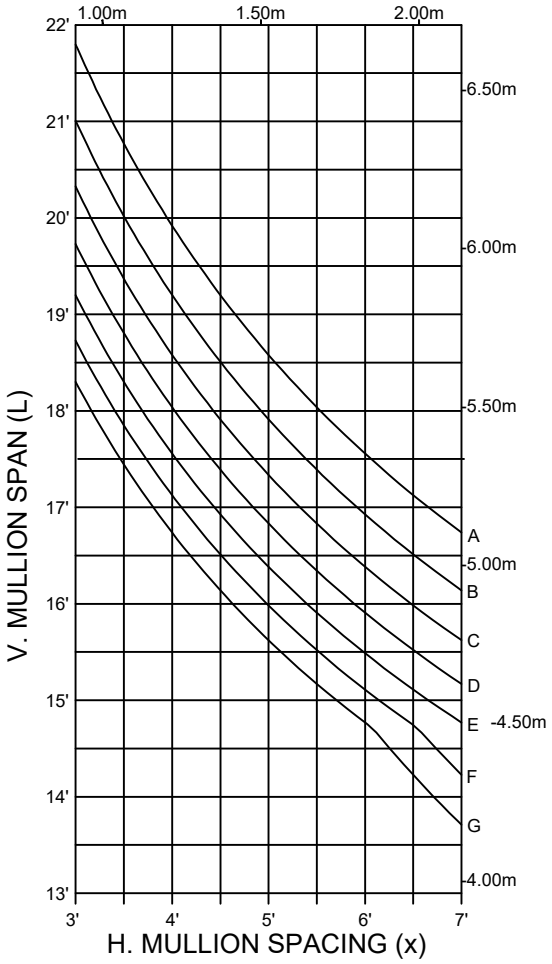

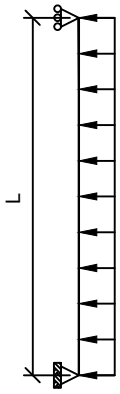

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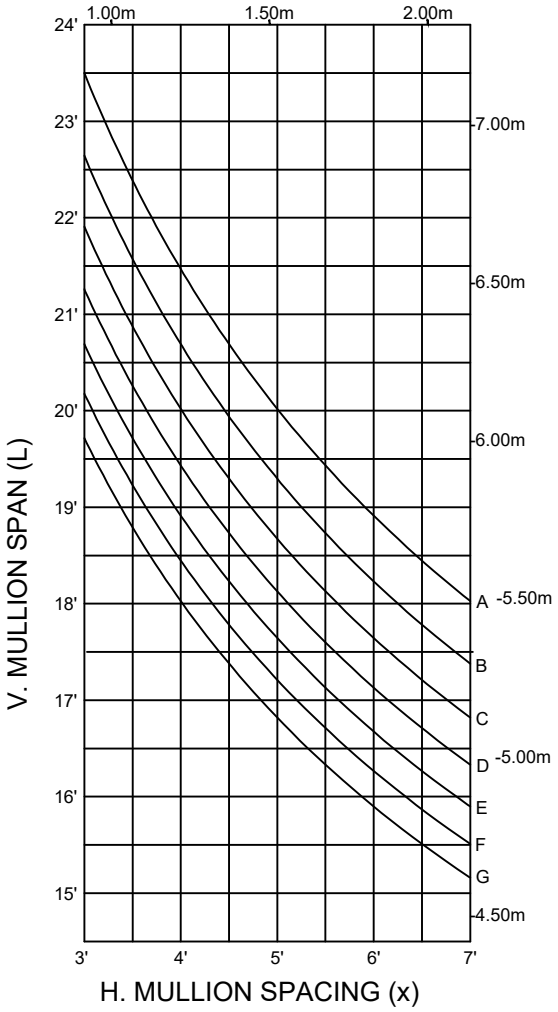
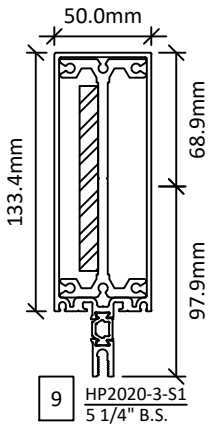
E = 30 psf
F = 32.5 psf
G = 35 psf

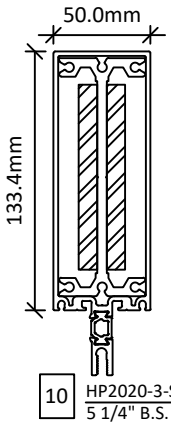




Ix = 17.685 in^4
Sx = 4.586 in^3

9 HP2020-3-S1
5 1/4" B.S.

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



Ix = 22.471 in^4
Sx = 5.741 in^3

10 HP2020-3-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
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HP2020
WIND LOAD CHARTS

GENERAL NOTES:
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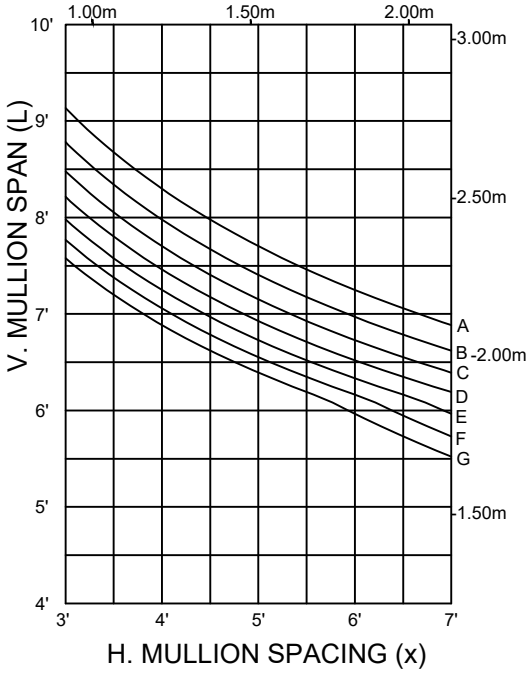
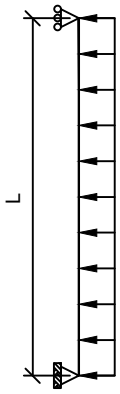
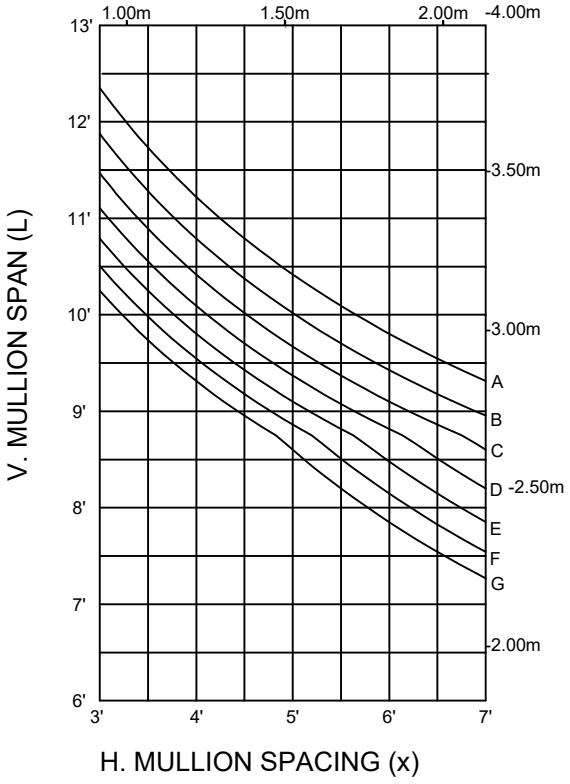
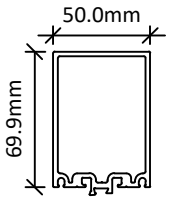




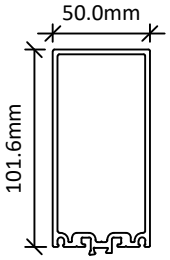
A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf





Ix = 1.108 in^4
Sx = 0.707 in^3

11 HP2020 - SSG1
2 3/4" B.S.



Ix = 2.741 in^4
Sx = 1.225 in^3

12 HP2020 - SSG2
4" B.S.

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

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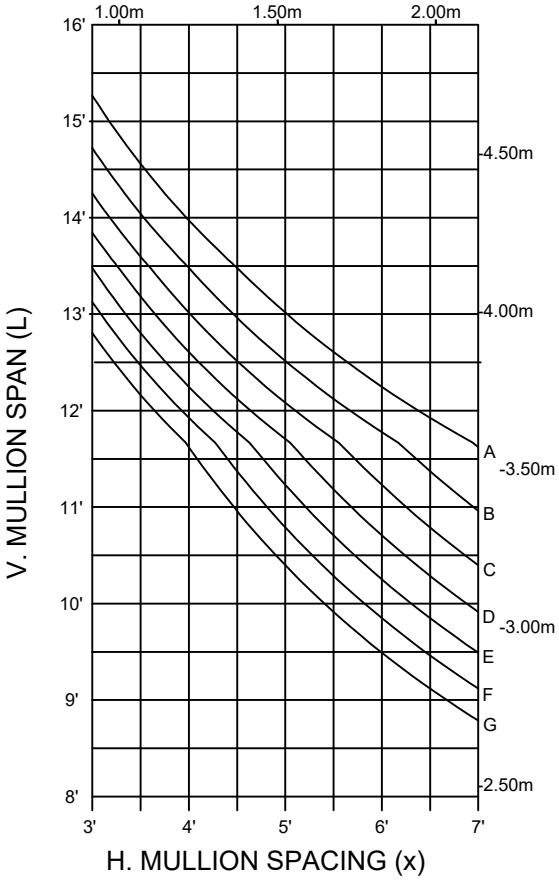
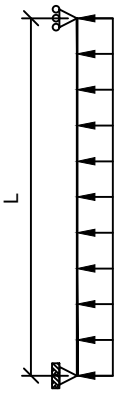
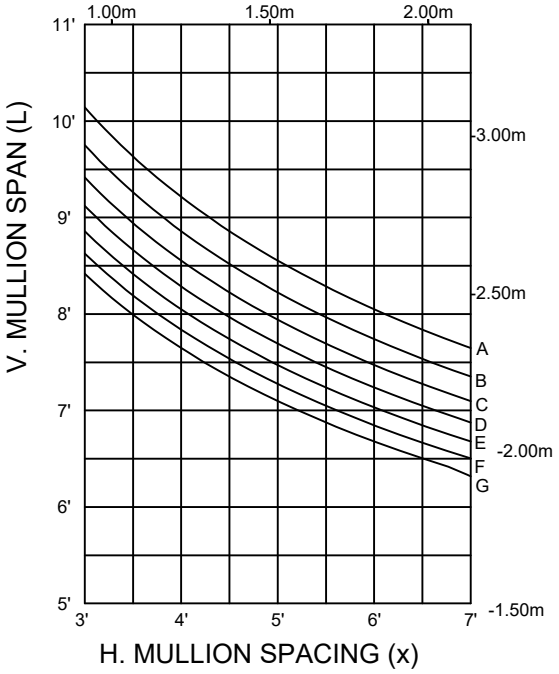
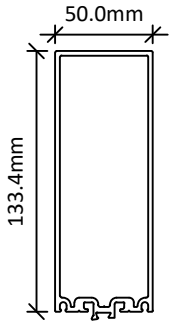




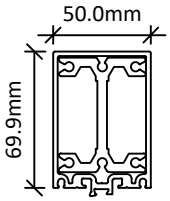
A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf





Ix = 5.344 in^4
Sx = 1.846 in^3

13 HP2020-SSG3
5 1/4" B.S.



Ix = 1.517 in^4
Sx = 0.925 in^3

14 HP2020 - SSG1-S
2 3/4" B.S.

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

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HP2020
WIND LOAD CHARTS

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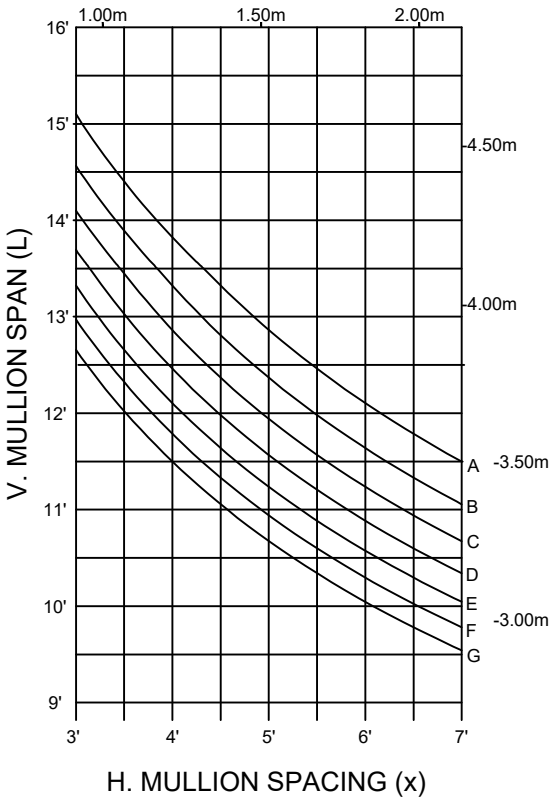
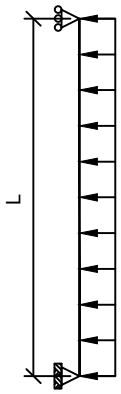
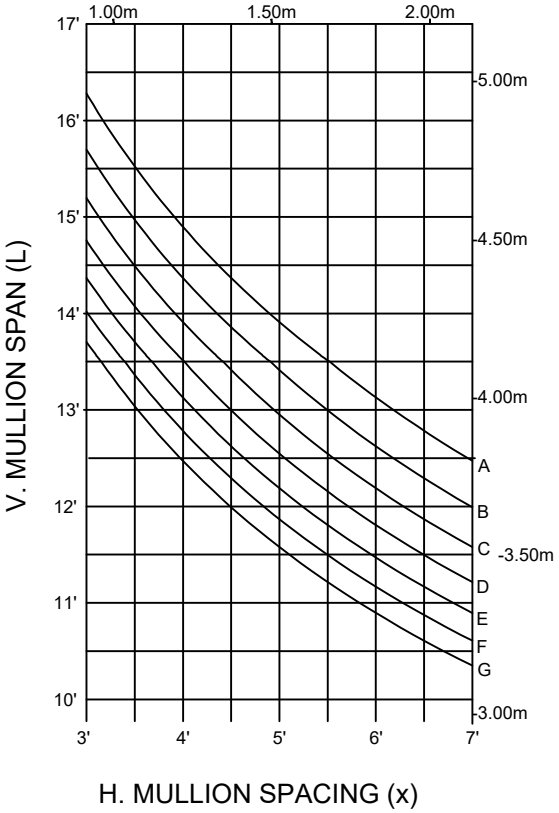
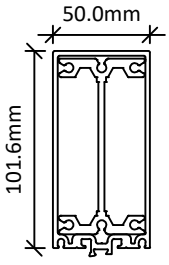




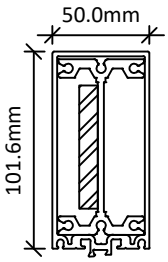
A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf





Ix = 5.159 in^4
Sx = 2.465 in^3

15 HP2020-SSG2-S
4" B.S.



Ix = 6.584 in^4
Sx = 3.274 in^3

16 HP2020-SSG2-S1
4" B.S.

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DEFLECTION LIMIT	L/175 & L/240+1/4"

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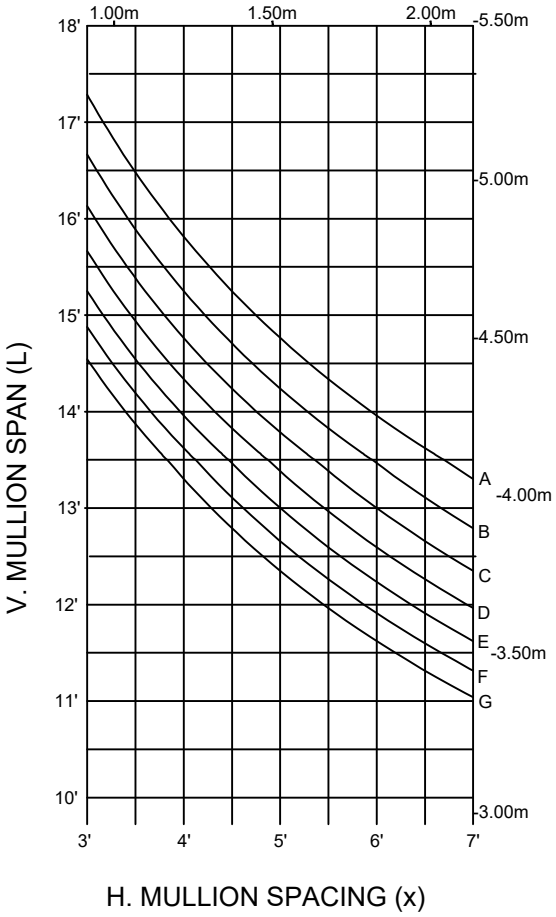
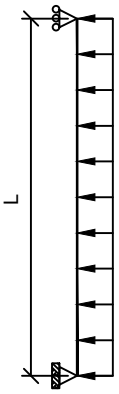
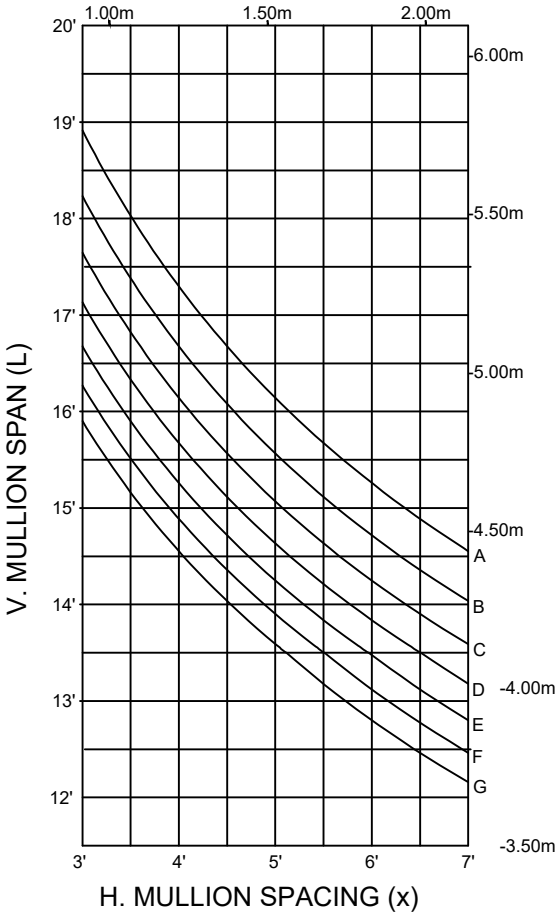
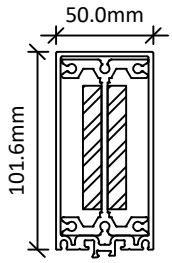




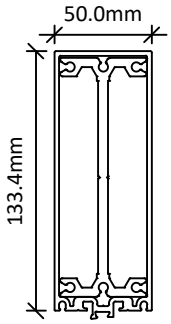
A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf





Ix = 7.989 in^4
Sx = 3.967 in^3

17 HP2020-SSG2-S2
4" B.S.



Ix = 10.675 in^4
Sx = 3.930 in^3

18 HP2020-SSG3-S
5 1/4" B.S.

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

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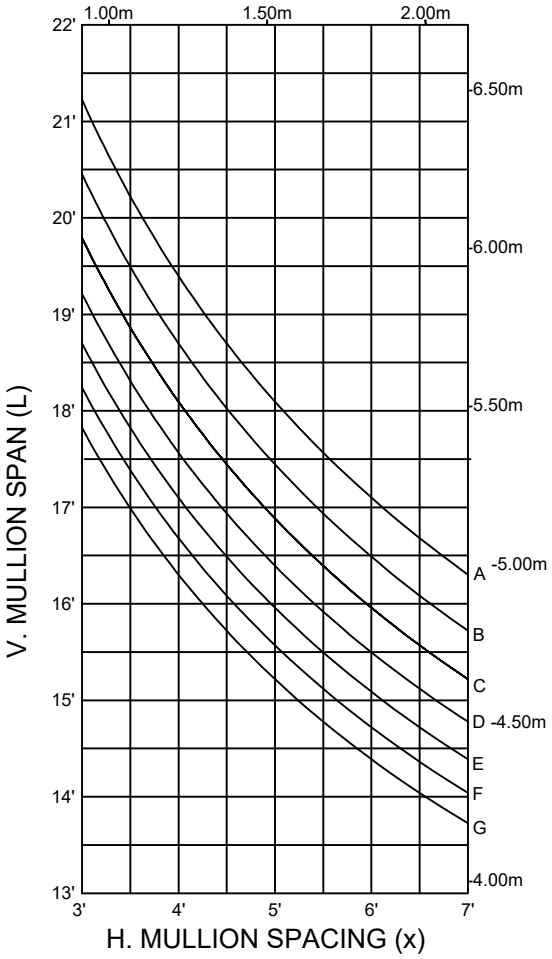
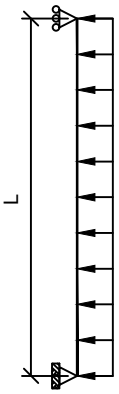
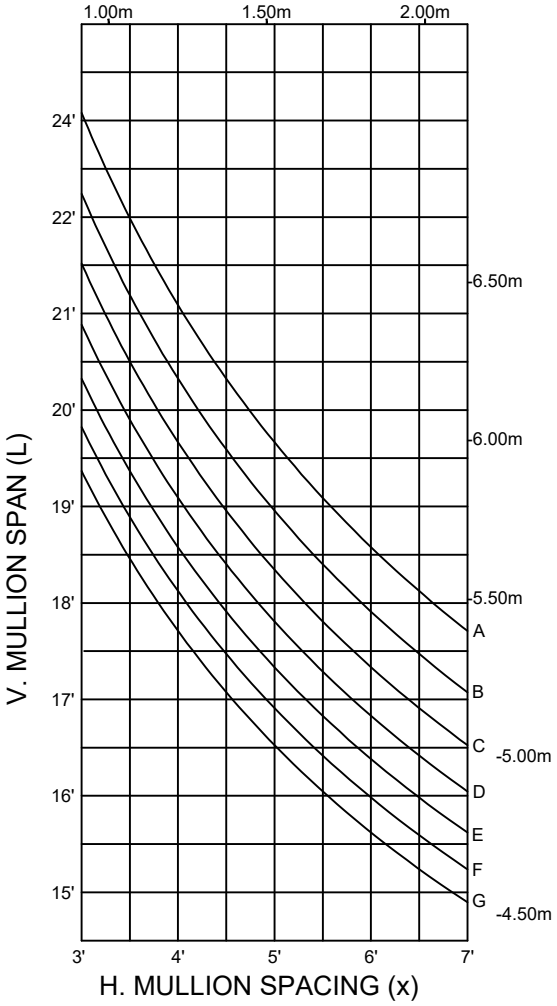
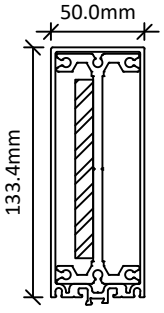




A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf

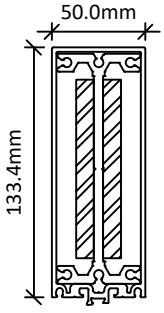




Ix = 15.430 in^4
Sx = 5.874 in^3

19 HP2020-SSG3-S1
5 1/4" B.S.

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



Ix = 20.152 in^4
Sx = 7.599 in^3

20 HP2020-SSG3-S2
5 1/4" B.S.

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HP2020
WIND LOAD CHARTS

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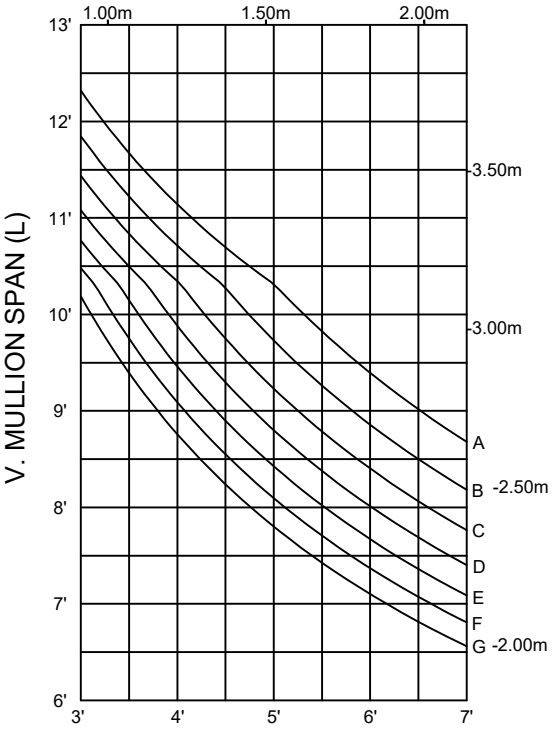
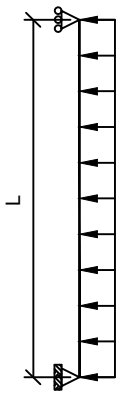
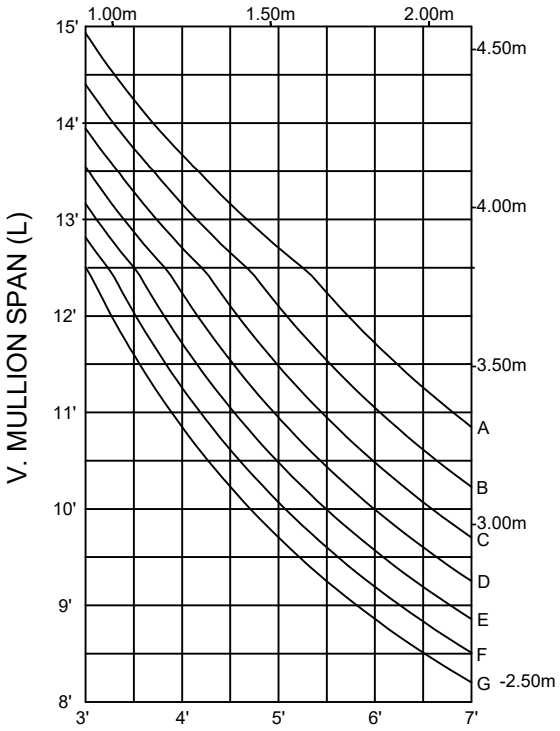
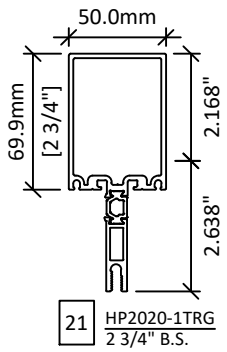
3. A 95% CAPACITY WAS APPLIED TO COVER UNCERTAINTIES DUE TO CRIMPING OF POLYAMIDE AND ALUMINUM REGLET.





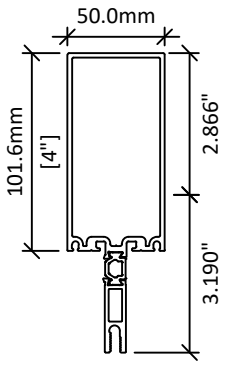
A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf





21 HP2020-1TRG
2 3/4" B.S.

Ix = 2.706 in^4
Sx = 1.026 in^3



22 HP2020-2TRG
4" B.S.

Ix = 5.236 in^4
Sx = 1.641 in^3

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

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HP2020
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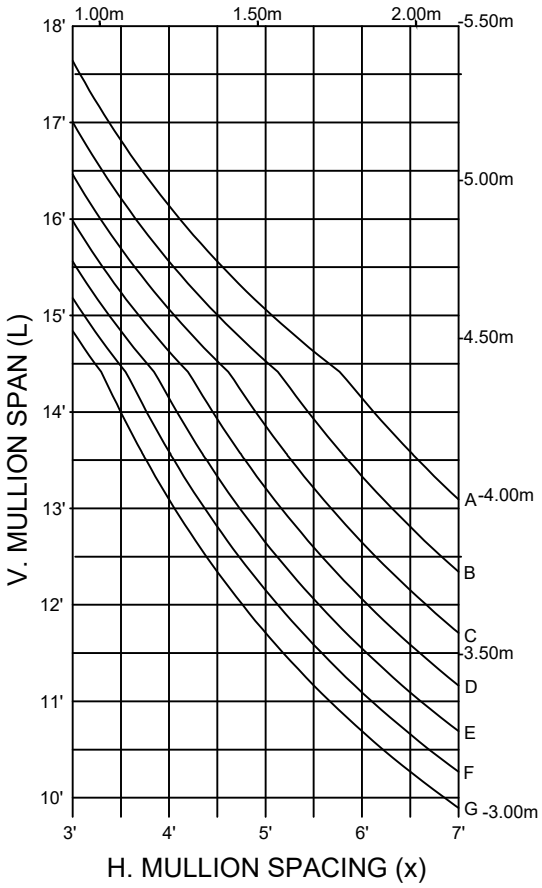
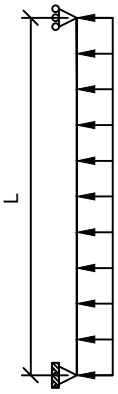
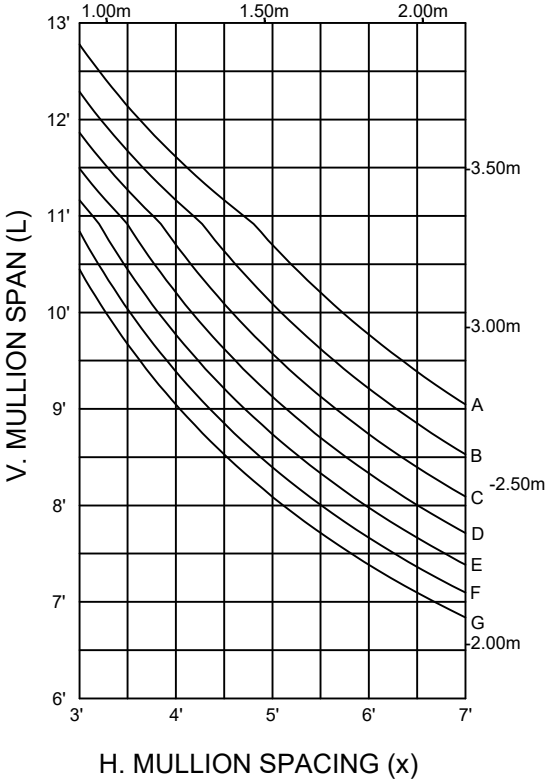
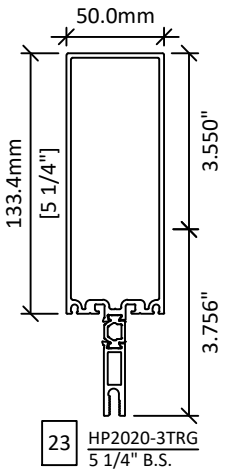




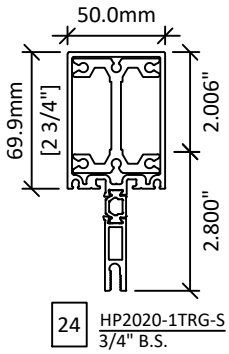
A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf





23 HP2020-3TRG
5 1/4" B.S.

Ix = 8.978 in^4
Sx = 2.390 in^3



24 HP2020-1TRG-S
3/4" B.S.

Ix = 3.195 in^4
Sx = 1.141 in^3

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

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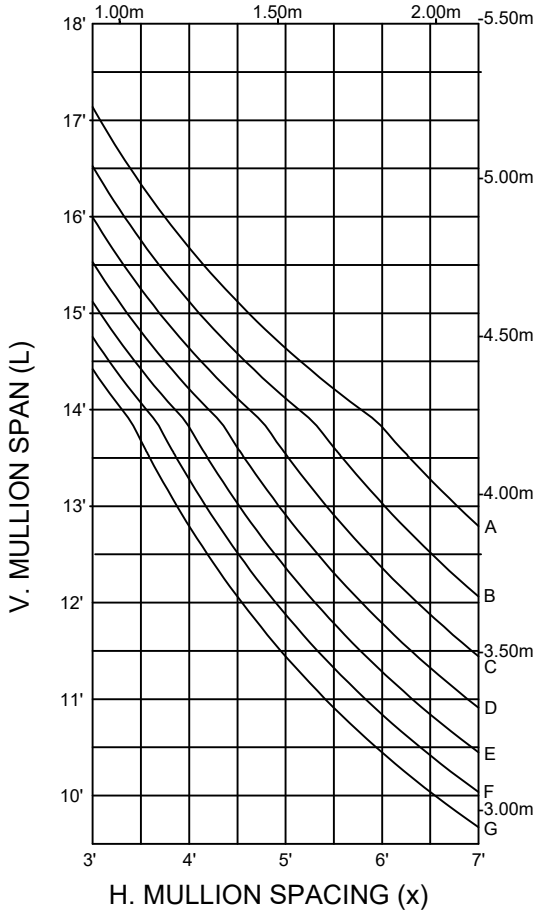
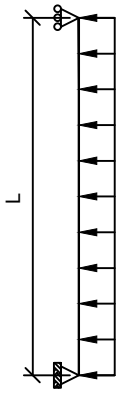
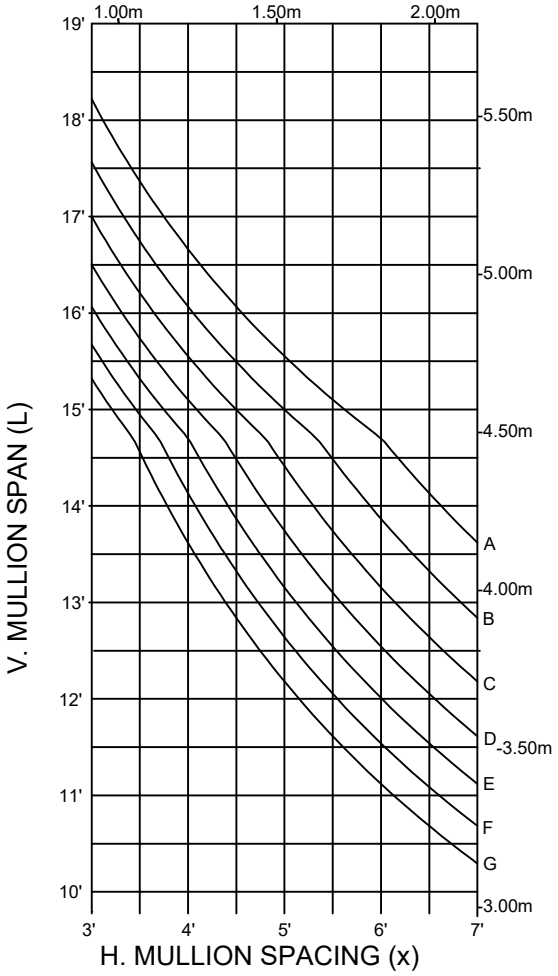
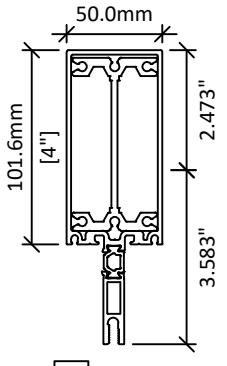




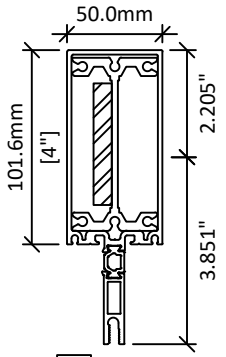
A = 20 psf
B = 22.5 psf
C = 25 psf
D = 27.5 psf
E = 30 psf
F = 32.5 psf
G = 35 psf





Ix = 8.179 in^4
Sx = 2.283 in^3

25 HP2020-2TRG-S
4" B.S.



Ix = 9.960 in^4
Sx = 2.586 in^3

26 HP2020-2TRG-S1
4" B.S.

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

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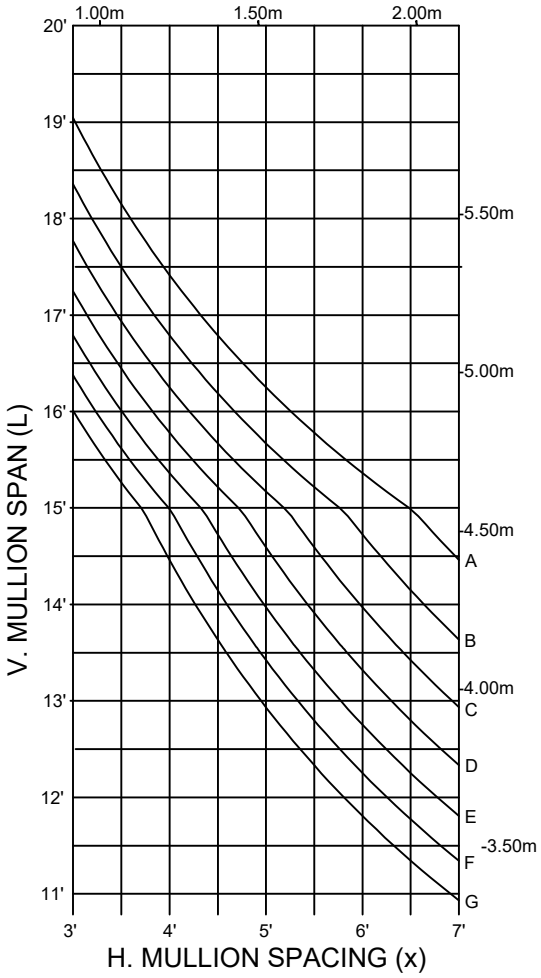
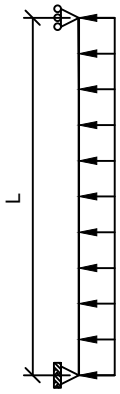
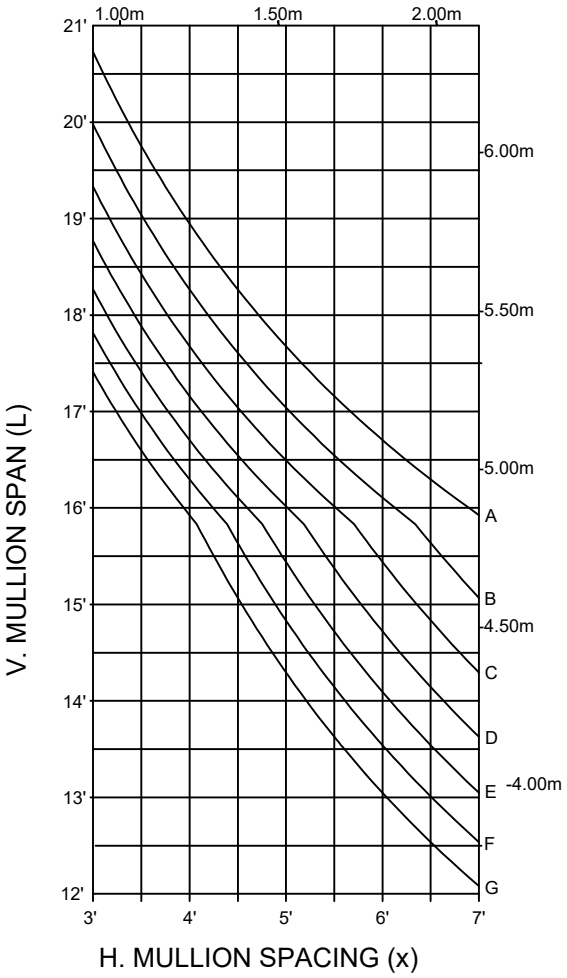
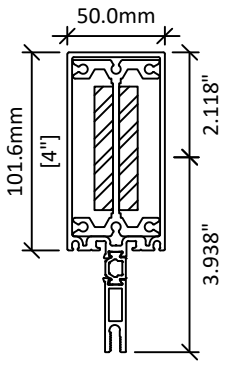
2. IT IS ALSO ASSUMED THAT LATERAL BRACING IS PROVIDED IN THE CALCULATION.
3. A 95% CAPACITY WAS APPLIED TO COVER UNCERTAINTIES DUE TO CRIMPING OF POLYAMIDE AND ALUMINUM REGLET.





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

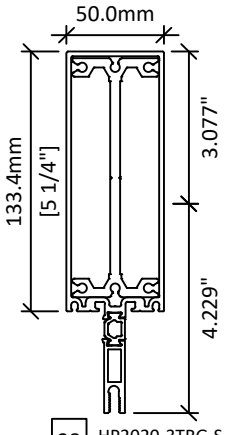




Ix = 11.484 in^4
Sx = 2.916 in^3

27 HP20202-2TRG-S2
4" B.S.

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



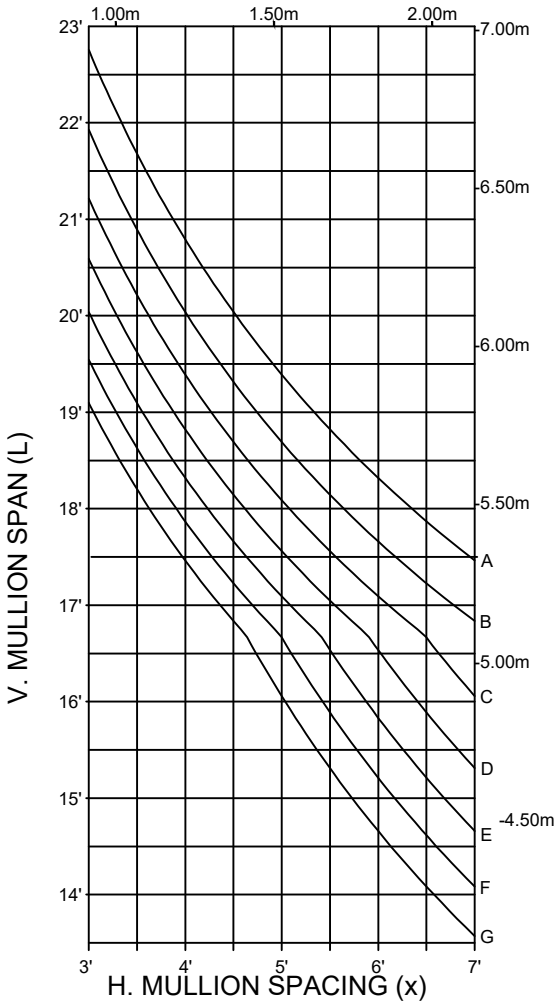
Ix = 15.062 in^4
Sx = 3.562 in^3

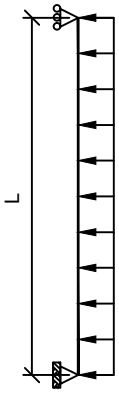
28 HP2020-3TRG-S
5 1/4" B.S.

HP2020
WIND LOAD CHARTS

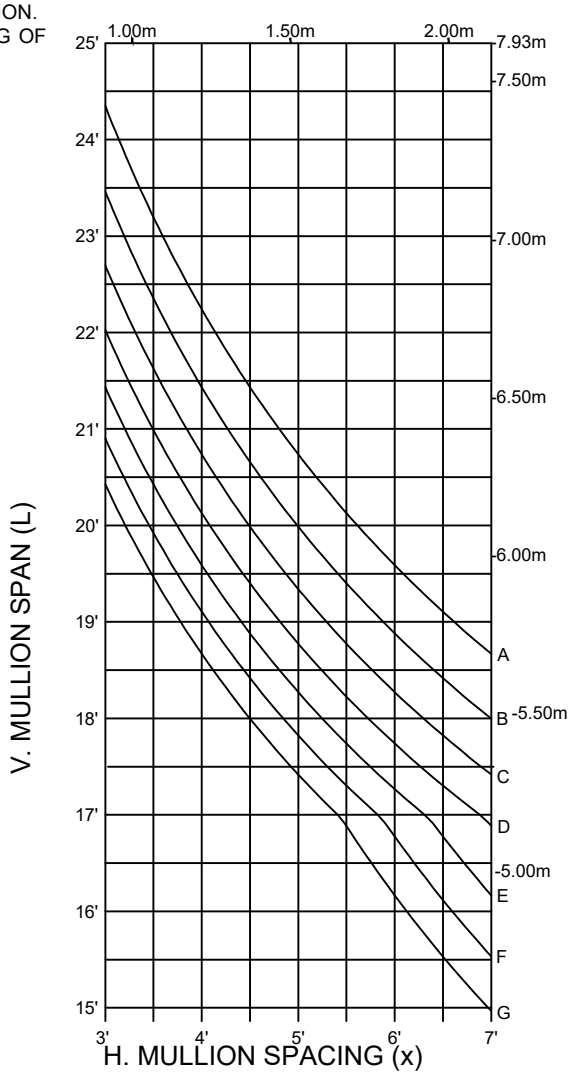
GENERAL NOTES:

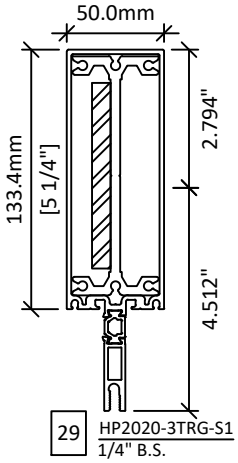
1. REFERENCES IN CALCULATING THE WIND LOAD CHART ARE BASED ON THE NATIONAL BUILDING CODE OF CANADA, AAMA TIR-A11 AND CAN/CSA S157.
2. IT IS ALSO ASSUMED THAT LATERAL BRACING IS PROVIDED IN THE CALCULATION.
3. A 95% CAPACITY WAS APPLIED TO COVER UNCERTAINTIES DUE TO CRIMPING OF POLYAMIDE AND ALUMINUM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

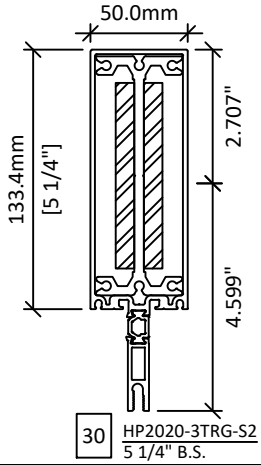




Ix = 20.280 in^4
Sx = 4.495 in^3

29 HP2020-3TRG-S1
1/4" B.S.

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



Ix = 25.144 in^4
Sx = 5.467 in^3

30 HP2020-3TRG-S2
5 1/4" B.S.