

TECHNICAL DATA

DESCRIPTION:

THERMALLY BROKEN WALL SYSTEM 2 1/2" WIDE, GLASS IS SEALED ON BOTH EXTERIOR AND INTERIOR SURFACE. MULLION SECTION COMES IN 3" (76.2mm), 4" (102mm), 5 1/4" (133.4mm), 6-5/8" (168mm), 8" (203.2mm) AND 10" (254mm) DEPTHS.

FINISH:

PROFILES STOCKED IN MILL FINISH AND CLEAR ANODIZED, OTHER FINISHES ARE AVAILABLE UPON REQUEST.

STOCK LENGTH: 24'-2" (7.37 METERS).

ASSEMBLY:

DESIGNED FOR SHEAR BLOCK ASSEMBLY

STRENGTH:

REFER TO WIND LOAD CHARTS FOR MAXIMUM ALLOWABLE SPAN, CONSULT STRUCTURAL ENGINEERING FOR FINAL DESIGN

REINFORCING:

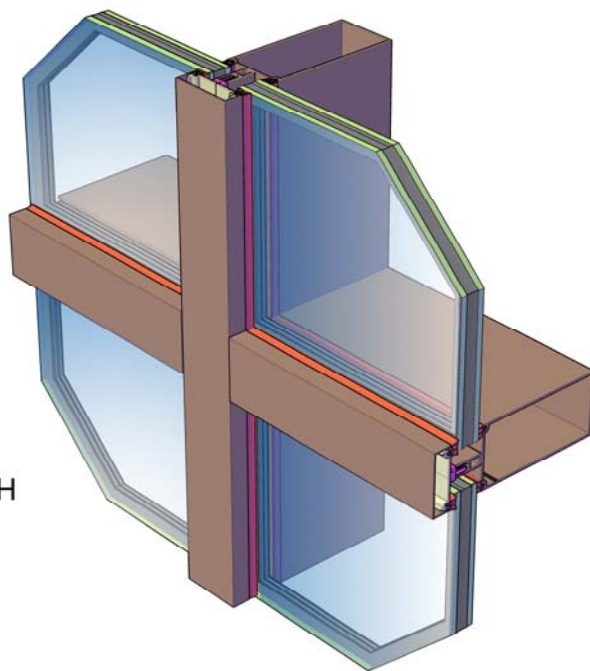
ALUMINUM REINFORCING IS AVAILABLE.

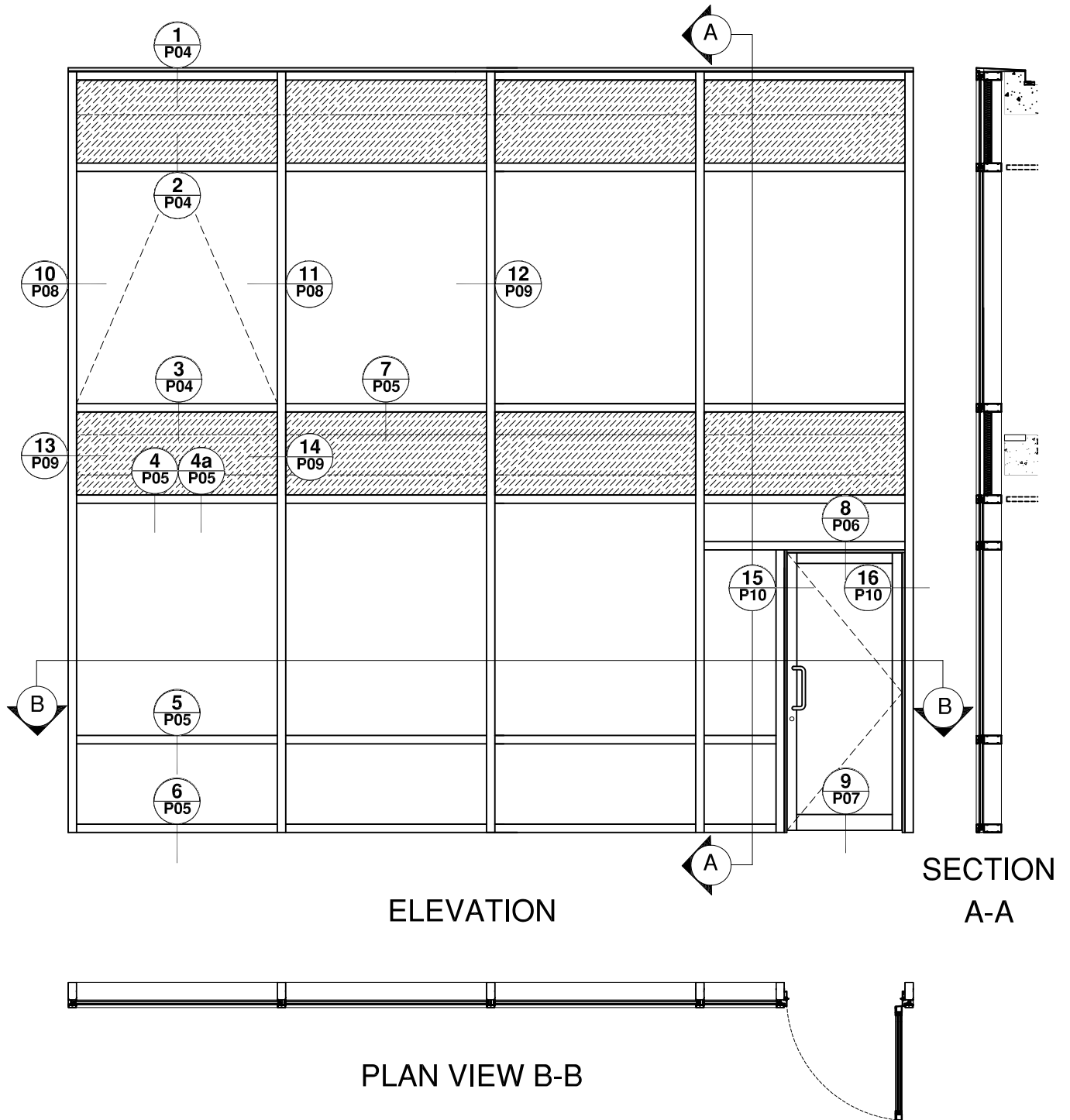
ANCHORING:

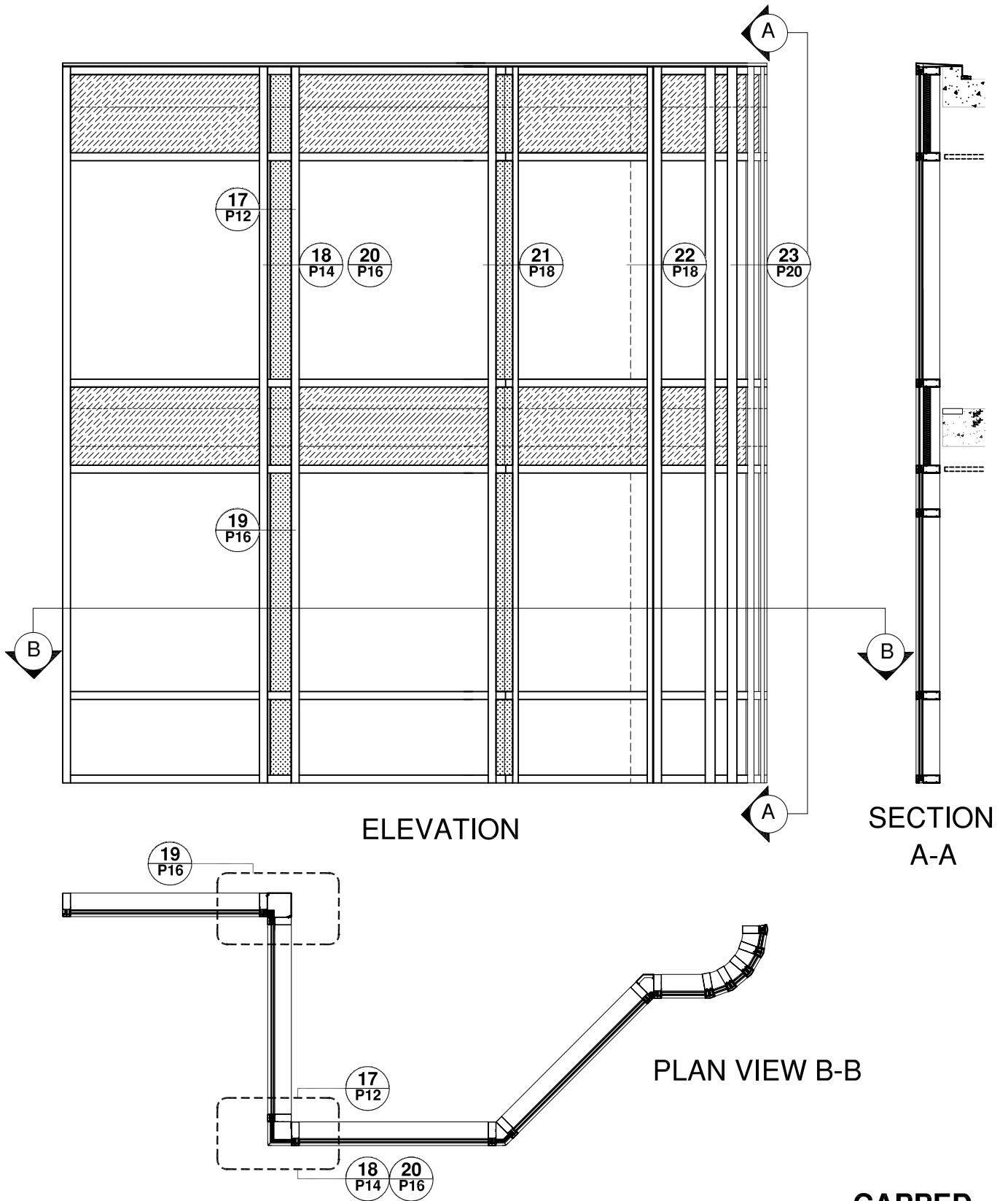
REFER TO FABRICATION AND INSTALLATION MANUAL.

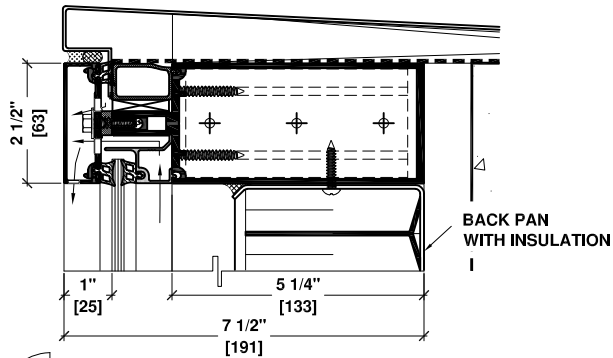
GLAZING:

8000 SERIES IS AN EXTERIOR GLAZED SYSTEM WHICH WILL ACCEPT 1/4" (6mm), 1/2" (12.7mm) SINGLE GLASS AND 1" (25mm) SEALED UNIT.

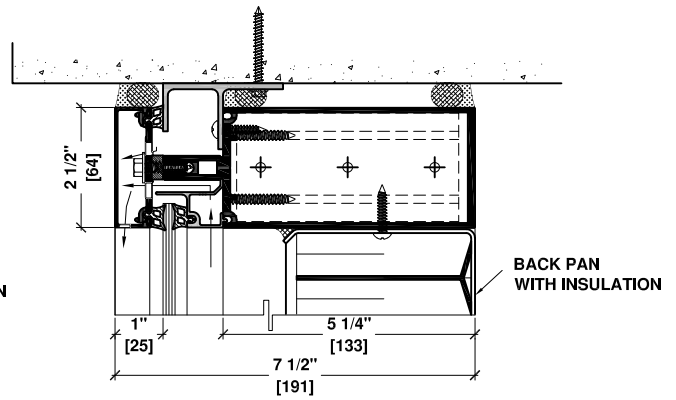




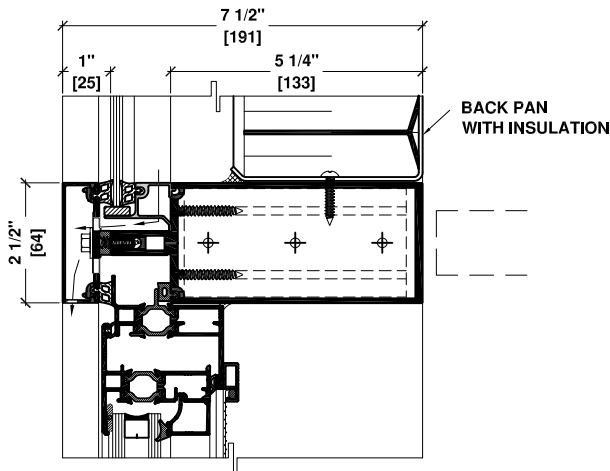




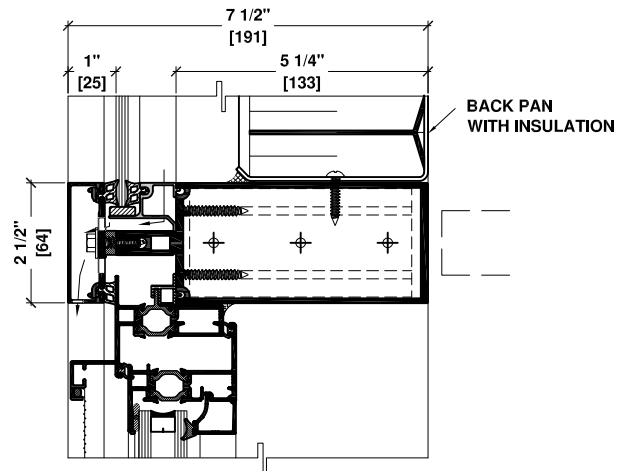
1 5 1/4" HORIZONTAL TUBE
SPANDREL
PARAPET WALL CONDITIION



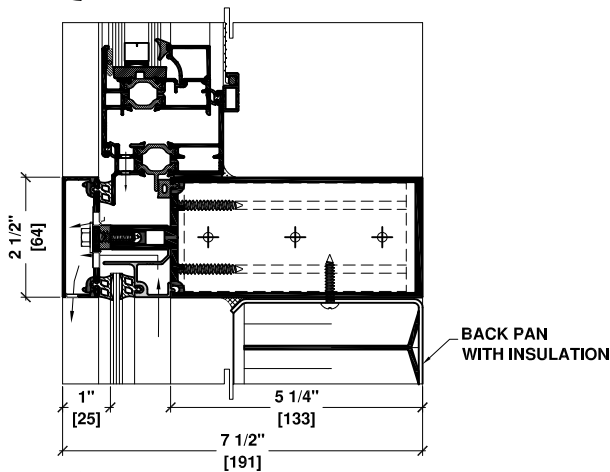
1a 5 1/4" HORIZONTAL TUBE
SPANDREL
SLAB CONDITION



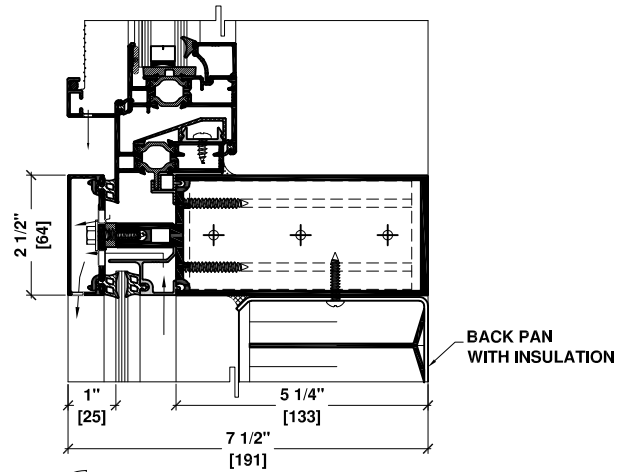
2 5 1/4" HORIZONTAL TUBE
SPANDREL / VENT OPEN OUT



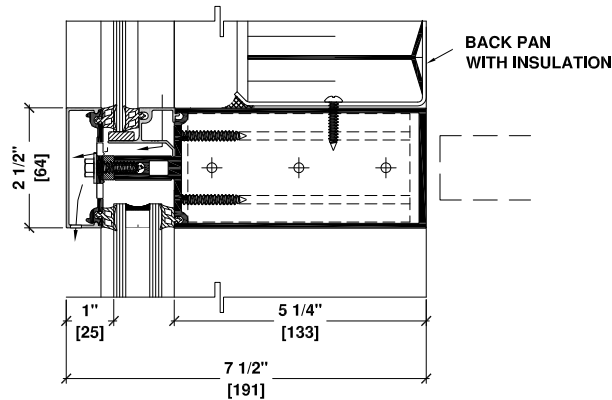
2a 5 1/4" HORIZONTAL TUBE
SPANDREL / VENT OPEN IN



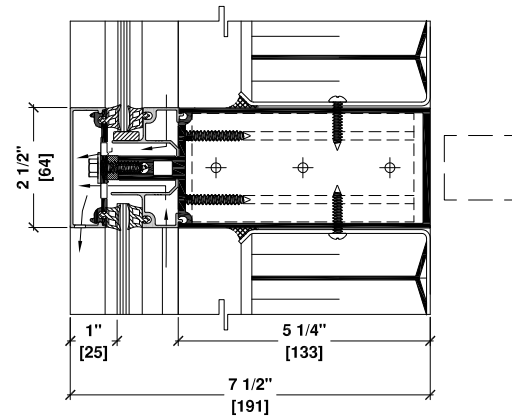
3 5 1/4" HORIZONTAL TUBE
VENT OPEN OUT / SPANDREL



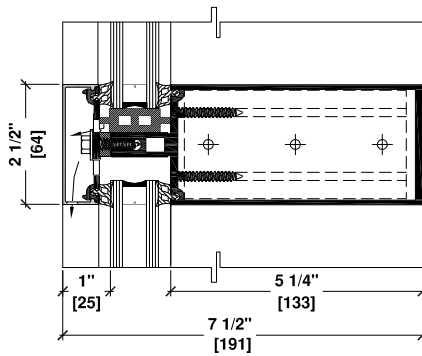
3a 5 1/4" HORIZONTAL TUBE
VENT OPEN IN / SPANDREL



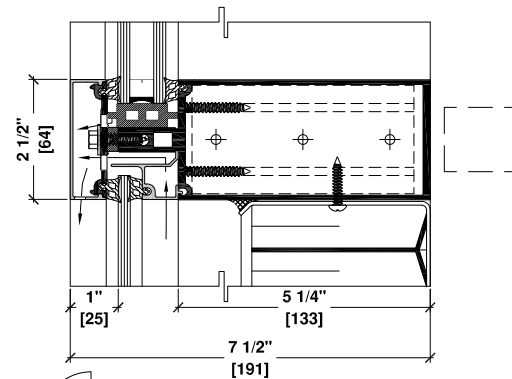
4 5 1/4" HORIZONTAL TUBE
SPANDREL / FIXED GLASS



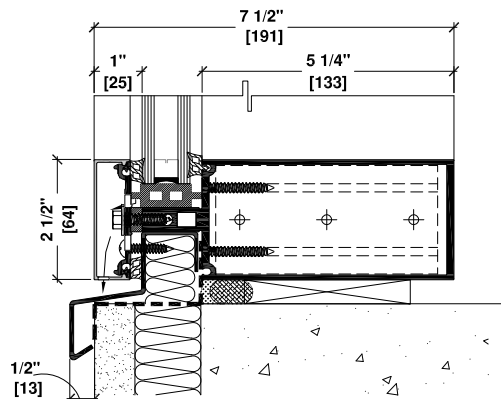
4a 5 1/4" HORIZONTAL TUBE
SPANDREL / SPANDREL



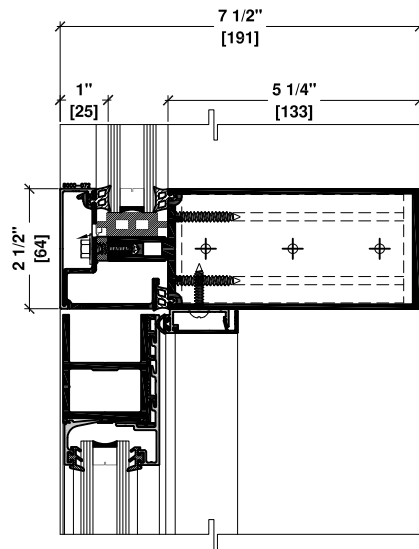
5 5 1/4" HORIZONTAL TUBE
FIXED GLASS / FIXED GLASS



7 5 1/4" HORIZONTAL TUBE
FIXED GLASS / SPANDREL

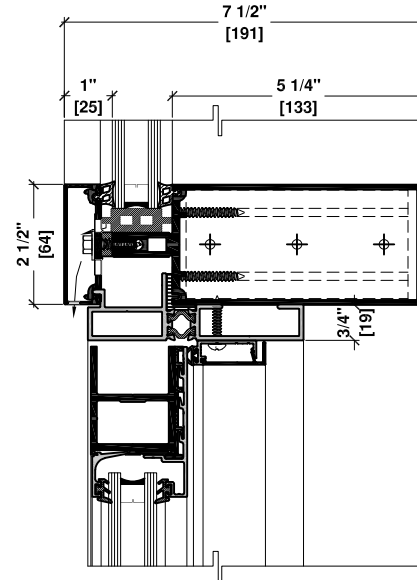


6 5 1/4" HORIZONTAL TUBE
SILL CONDITION



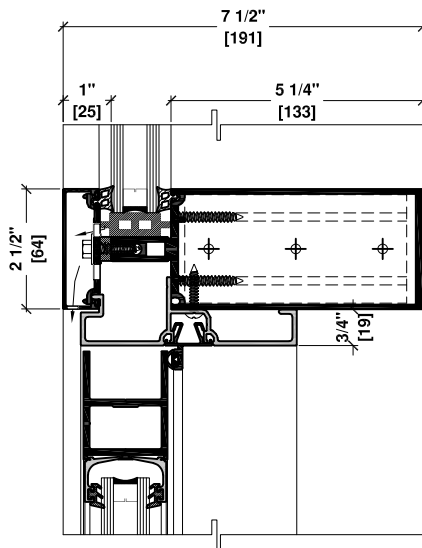
8

**5 1/4" HORIZONTAL TUBE /
SERIES 260 DOOR**



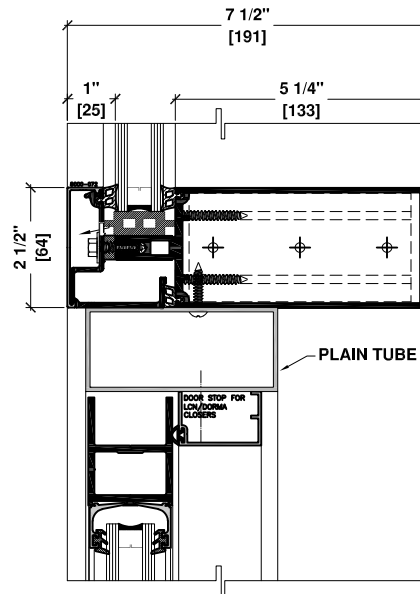
8a

**5 1/4" HORIZONTAL TUBE /
SERIES 260 DOOR**



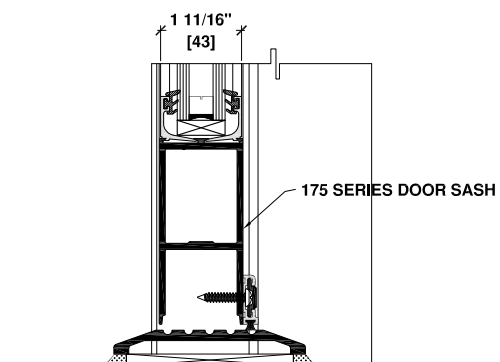
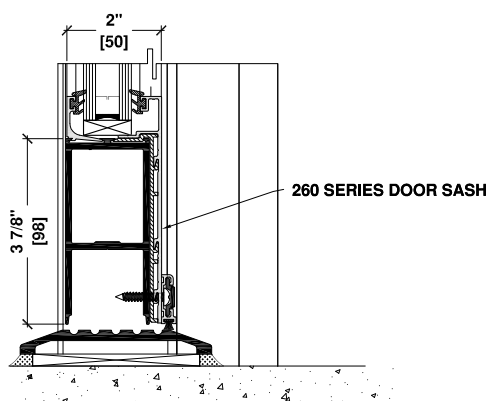
8b

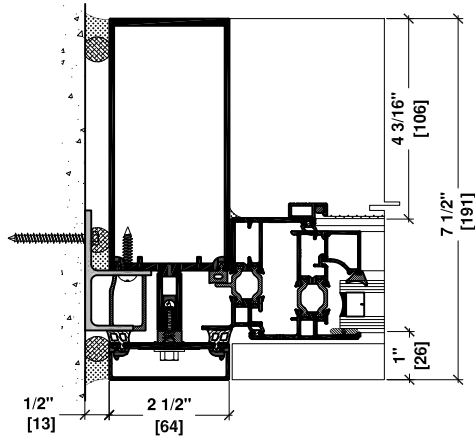
**5 1/4" HORIZONTAL TUBE /
SERIES 175 DOOR**



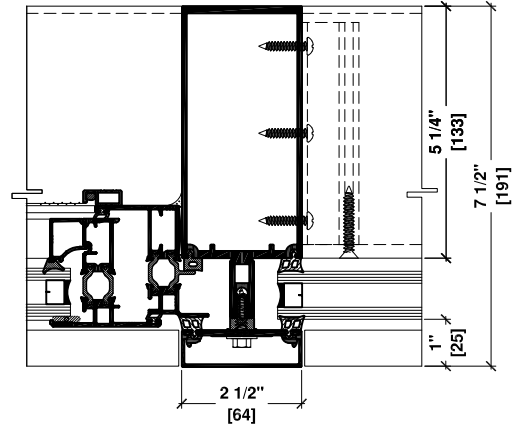
8c

**5 1/4" HORIZONTAL TUBE /
SERIES 175 DOOR**

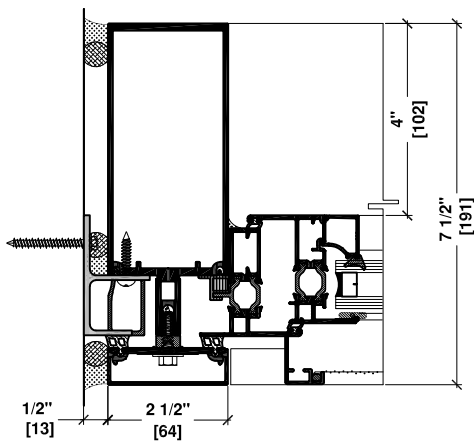




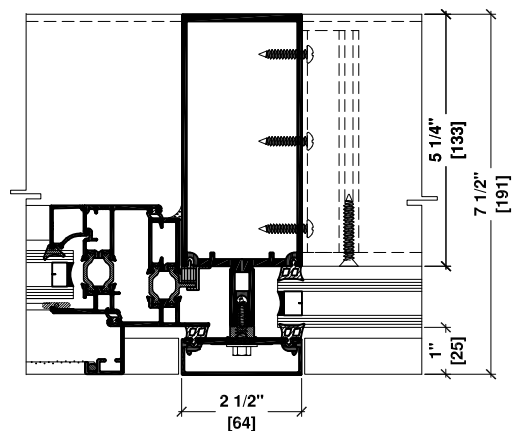
10 5 1/4" VERTICAL TUBE
VENT - JAMB CONDITION



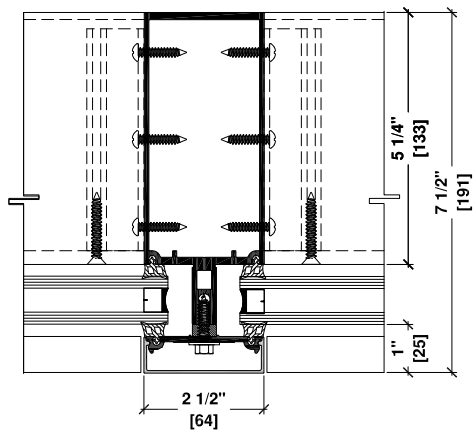
11 5 1/4" VERTICAL TUBE
VENT (OPEN OUT) FIXED
GLASS



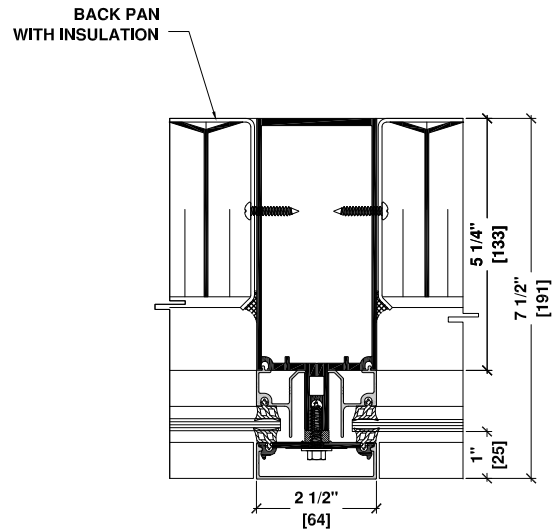
10a 5 1/4" VERTICAL TUBE
VENT OPEN IN
JAMB CONDITION



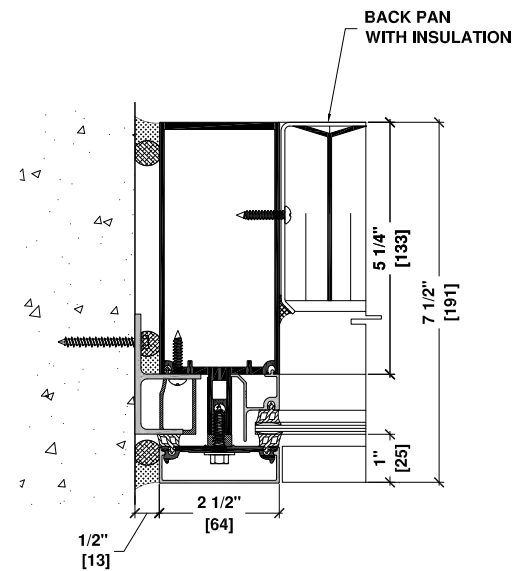
11a 5 1/4" VERTICAL TUBE
VENT OPEN IN
FIXED GLASS



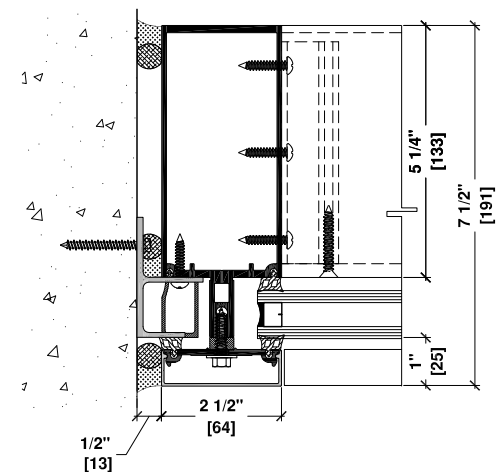
12 5 1/4" VERTICAL TUBE
FIXED GLASS-FIXED
GLASS



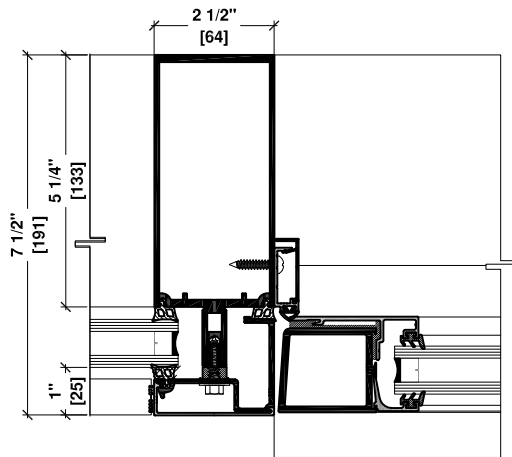
14 5 1/4" VERTICAL TUBE
SPANDRELGLASS-
SPANDREL GLASS



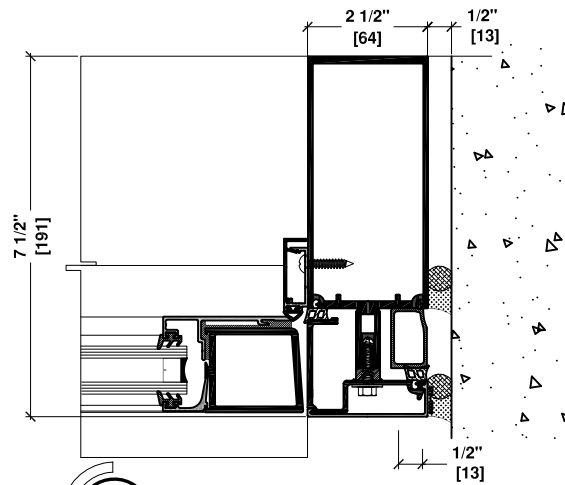
13 5 1/4" VERTICAL TUBE
JAMB-SPANDREL GLASS
CONDITION



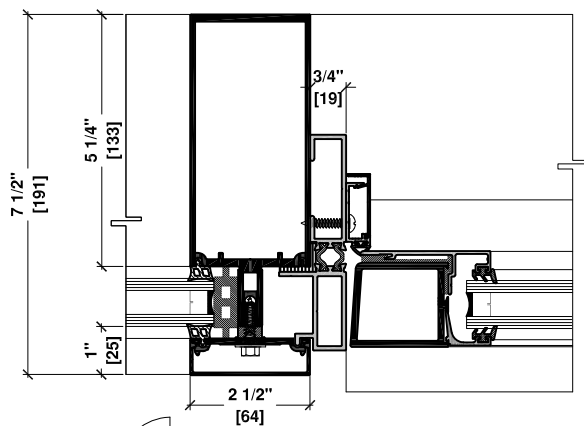
13a 5 1/4" VERTICAL TUBE
JAMB-VISION



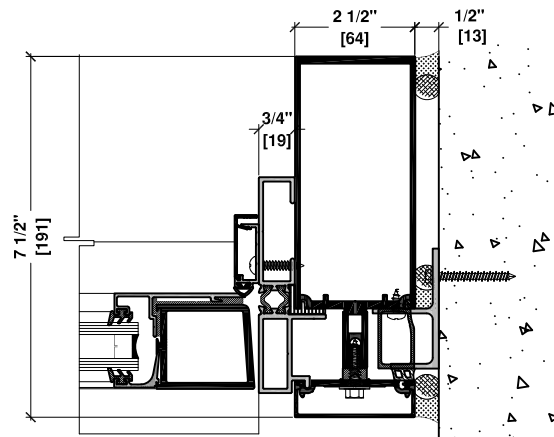
15 5 1/4" VERTICAL TUBE
FIXED GLASS-SERIES 260
DOOR ADAPTOR



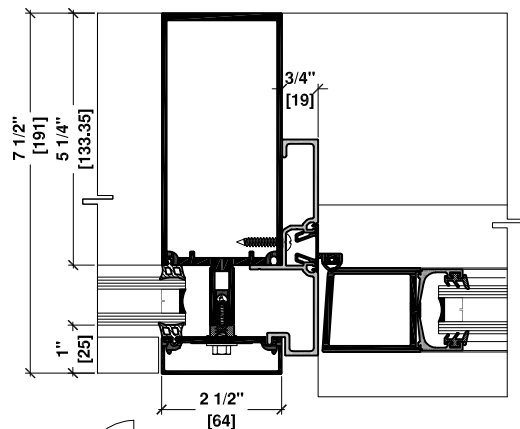
16 5 1/4" VERTICAL TUBE
DOOR ADAPTOR-SERIES 260
JAMB CONDITION



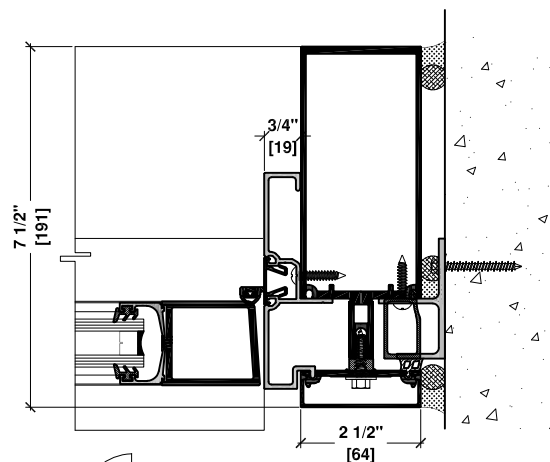
15a 5 1/4" VERTICAL TUBE
FIXED GLASS-SERIES 260
DOOR ADAPTOR



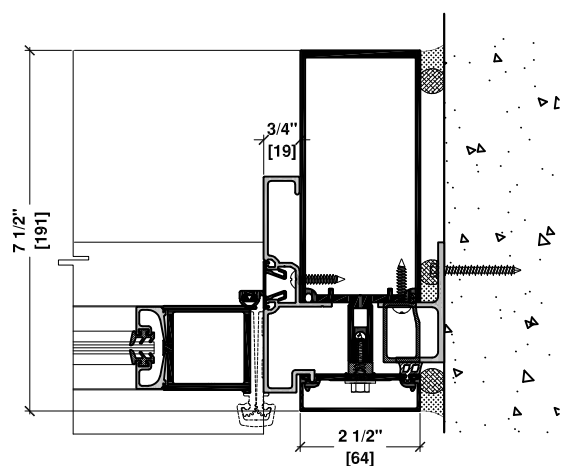
16a 5 1/4" VERTICAL TUBE
DOOR ADAPTOR-SERIES 260
JAMB CONDITION



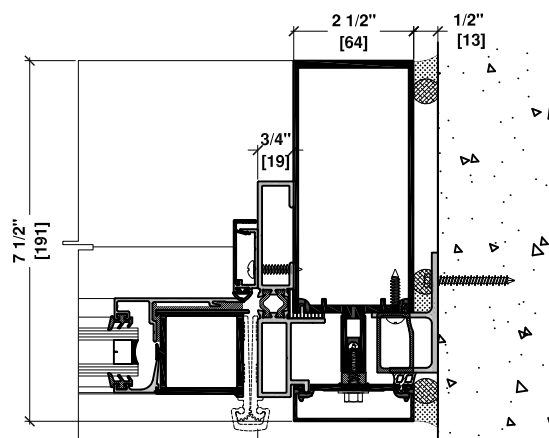
15b 5 1/4" VERTICAL TUBE
FIXED GLASS-SERIES 175
DOOR ADAPTOR



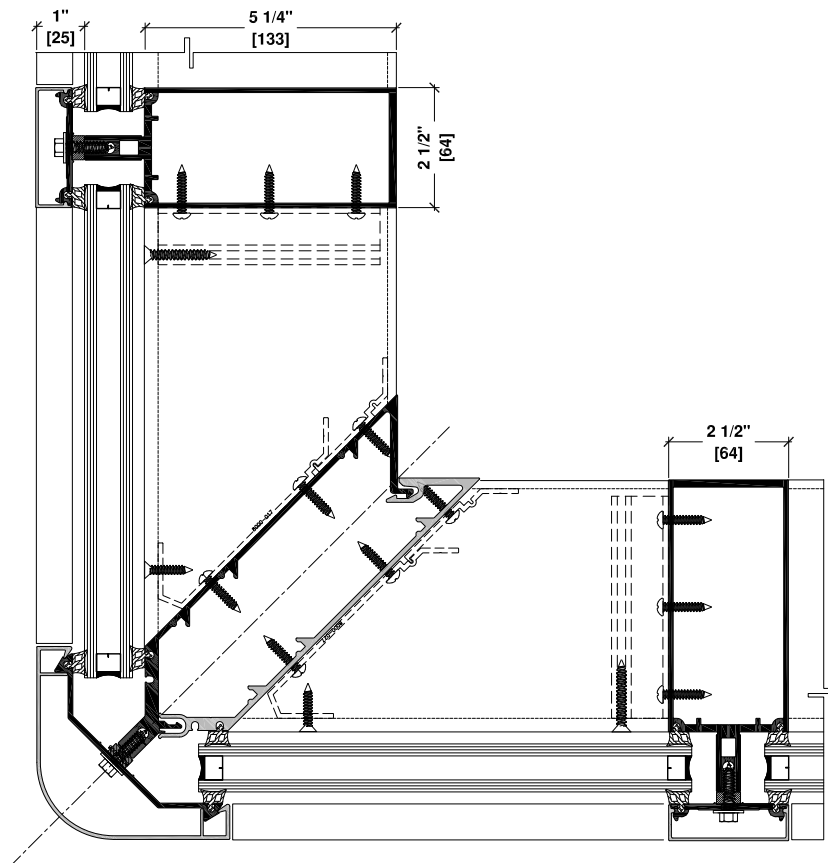
16b 5 1/4" VERTICAL TUBE
DOOR ADAPTOR-SERIES 175
JAMB CONDITION



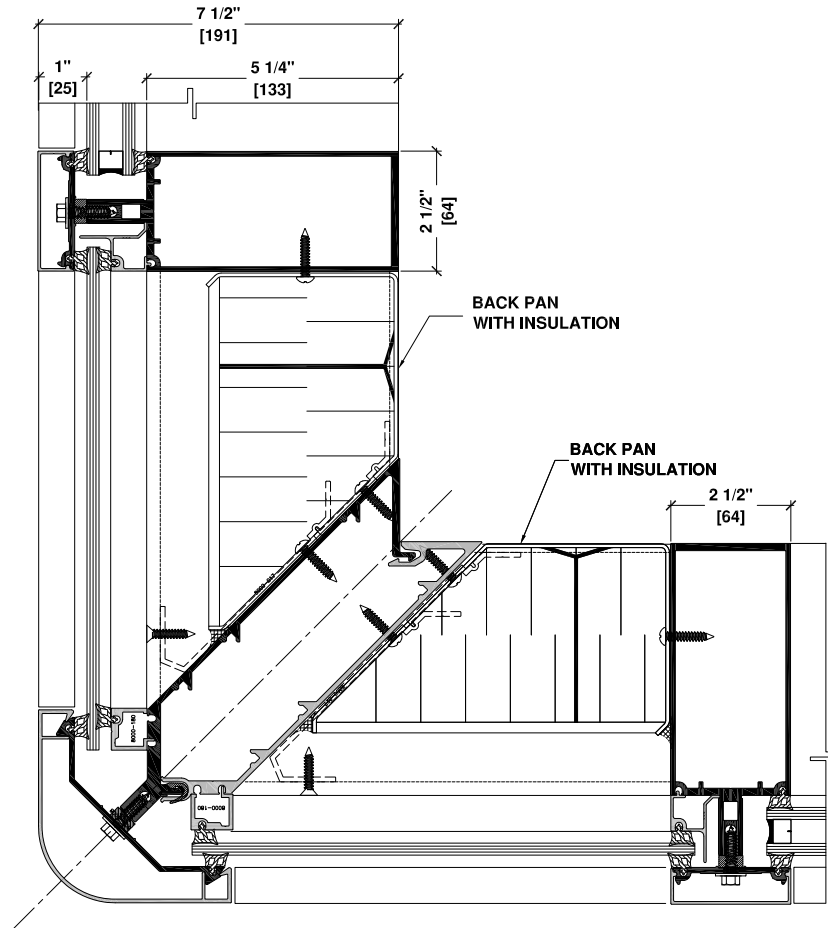
16c 5 1/4" VERTICAL TUBE
DOOR ADAPTOR-SERIES 175
JAMB CONDITION



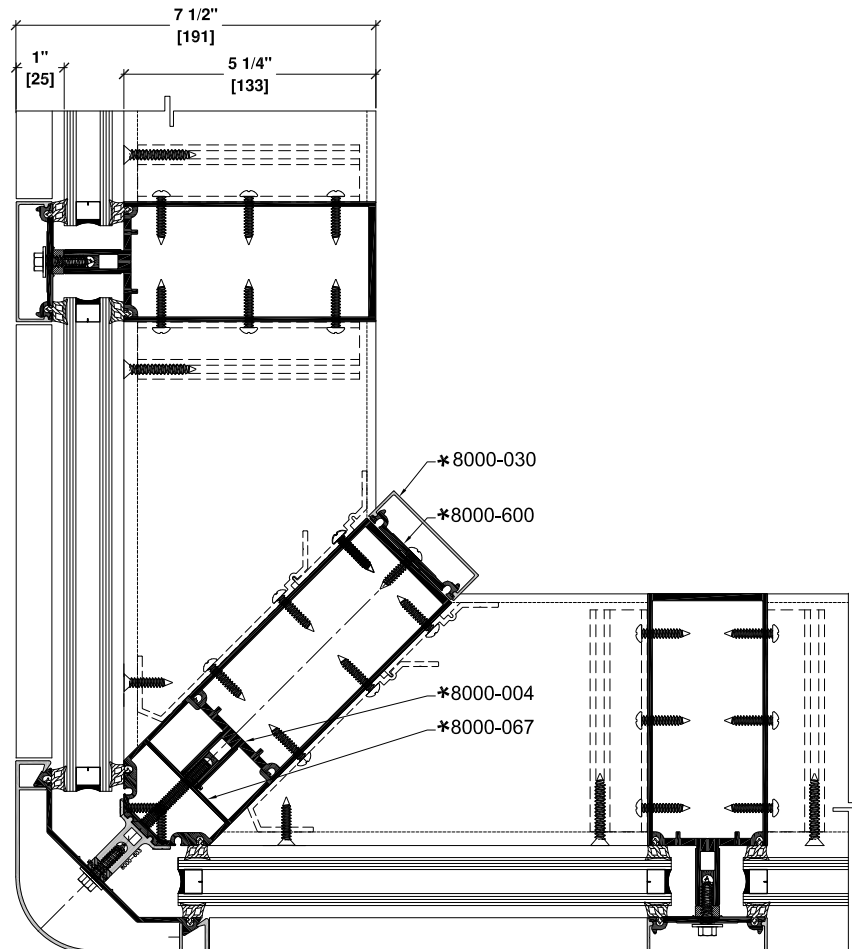
16d 5 1/4" VERTICAL TUBE
DOOR ADAPTOR-SERIES 260
JAMB CONDITION

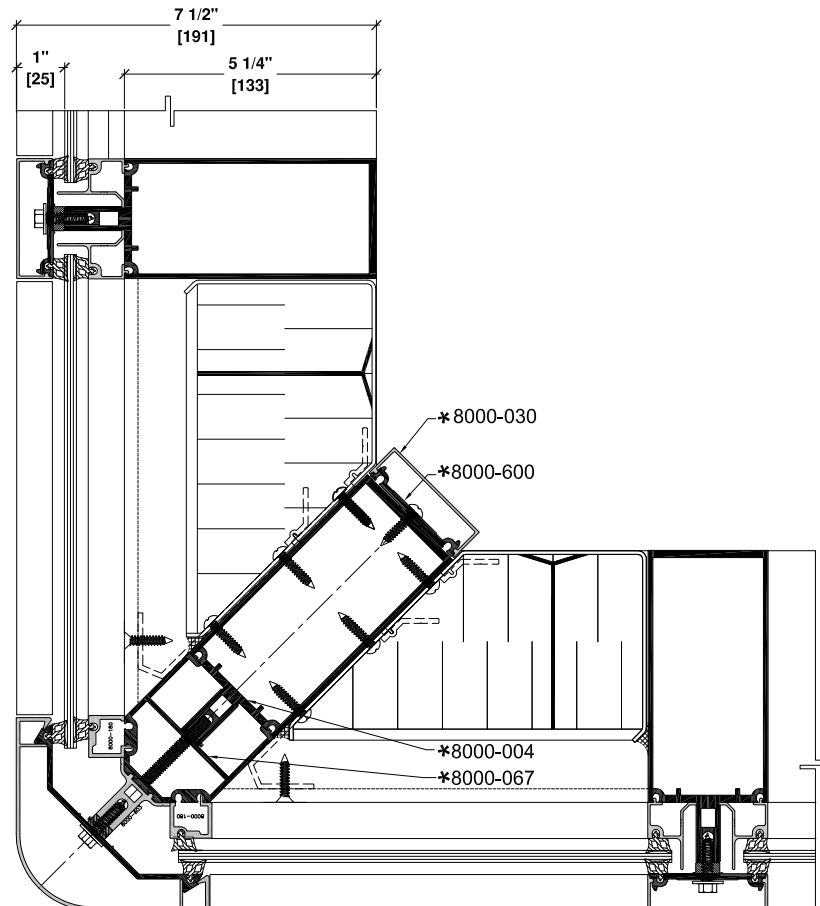


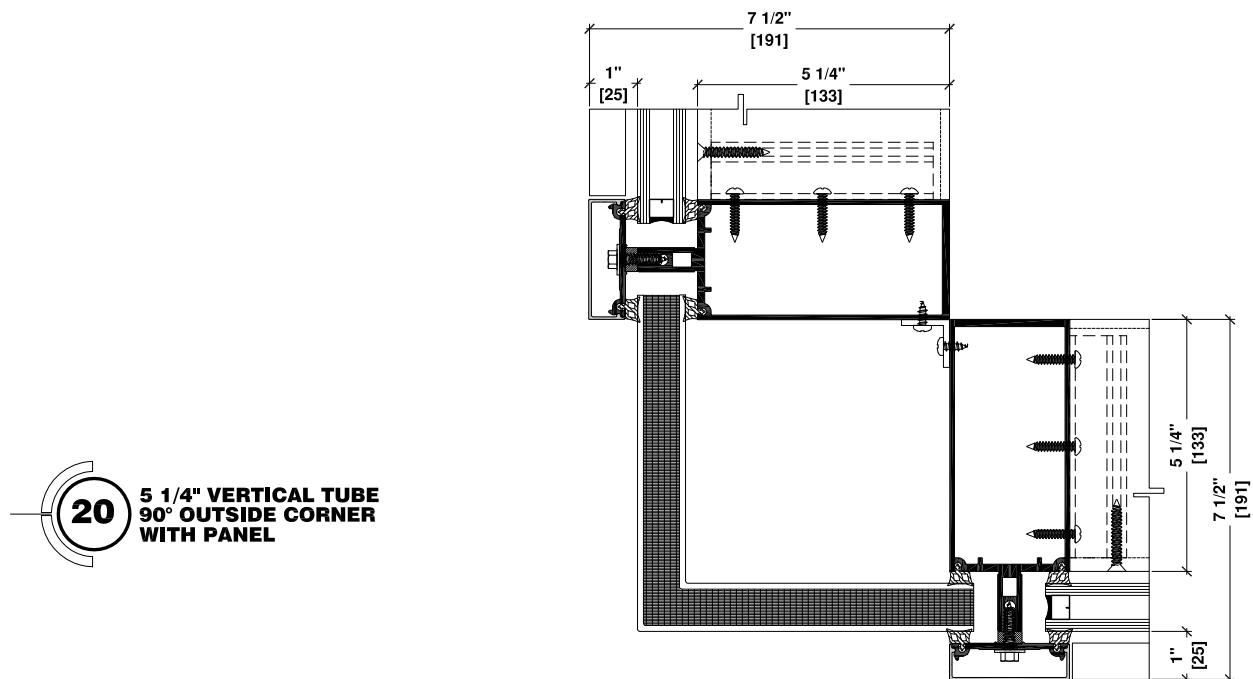
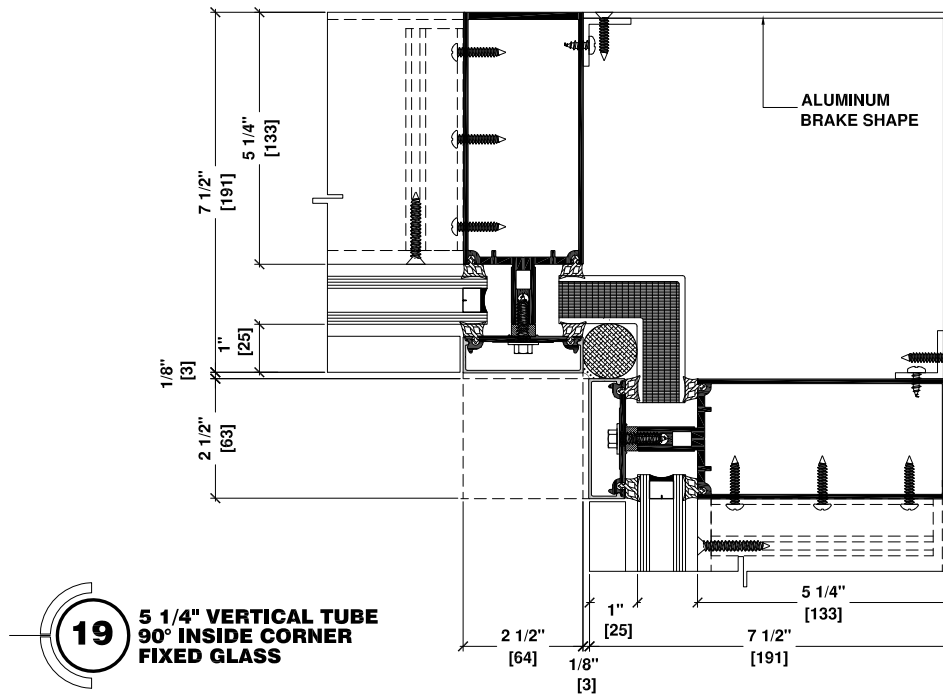
NOTE:
AVAILABLE FOR 4", 5-1/4", 6-5/8" BACK SECTION

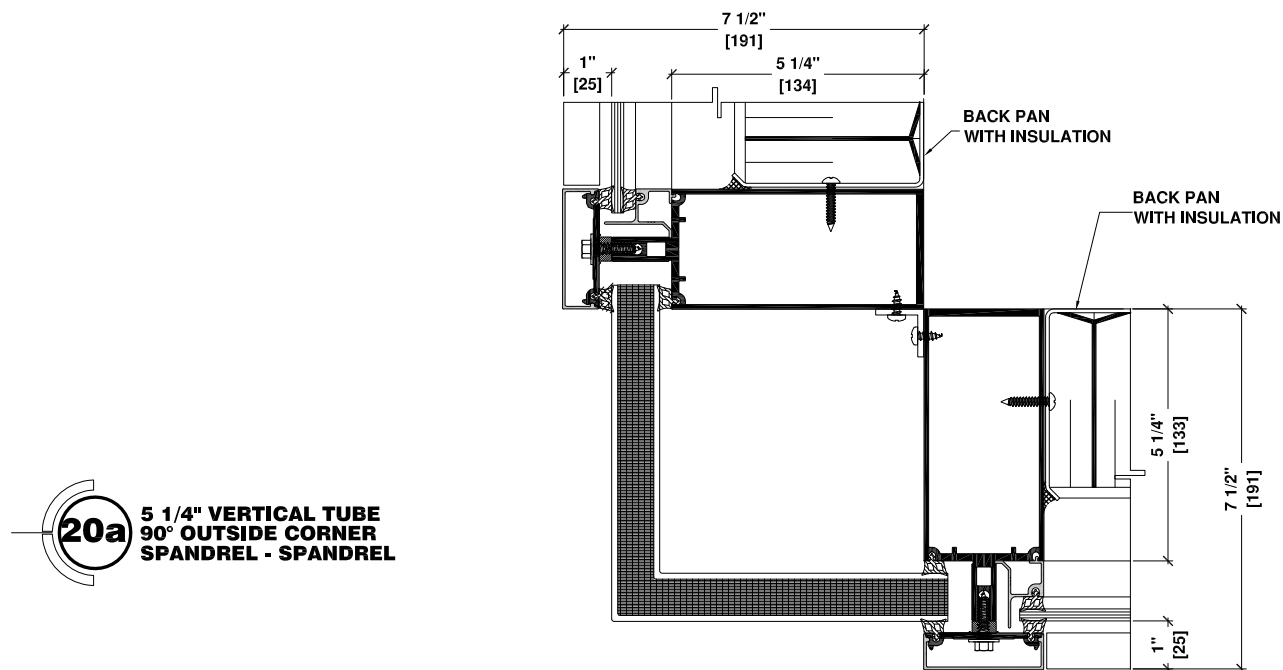
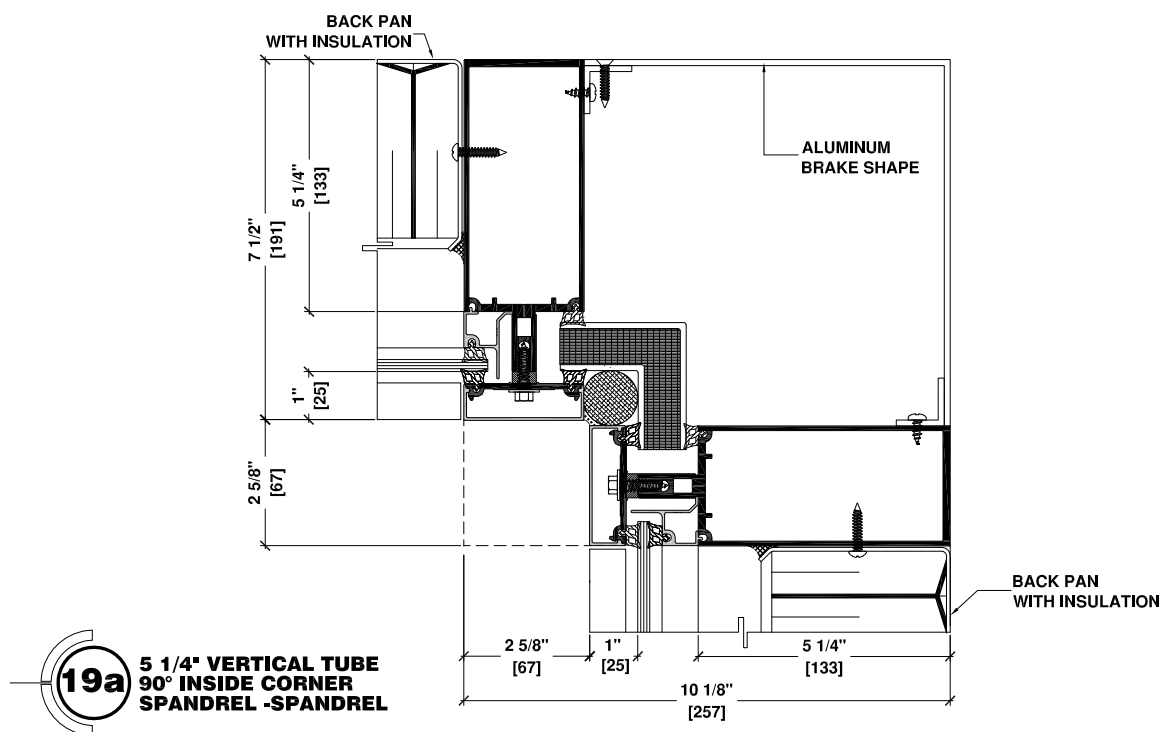


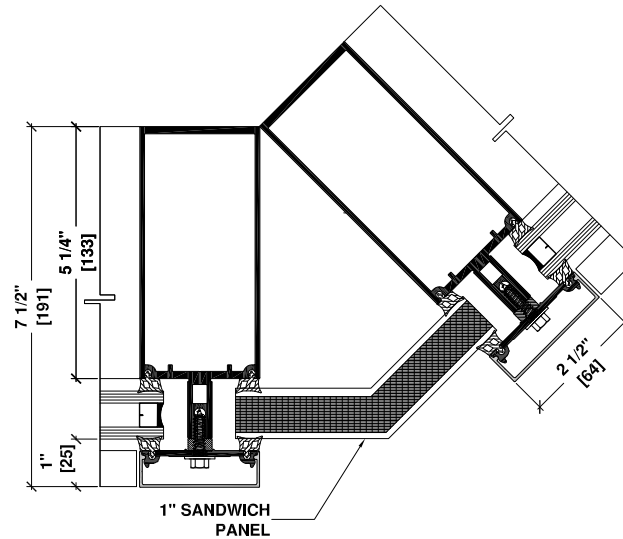
NOTE:
AVAILABLE FOR 4", 5-1/4", 6-5/8" BACK SECTION



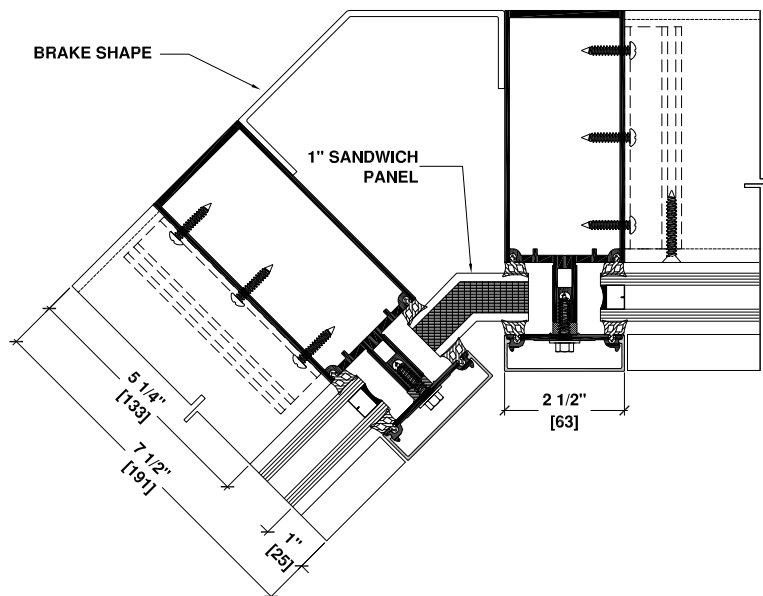




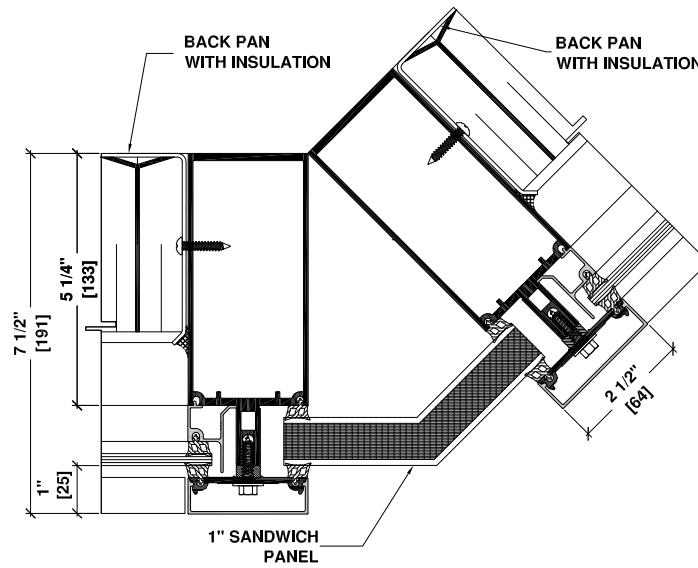




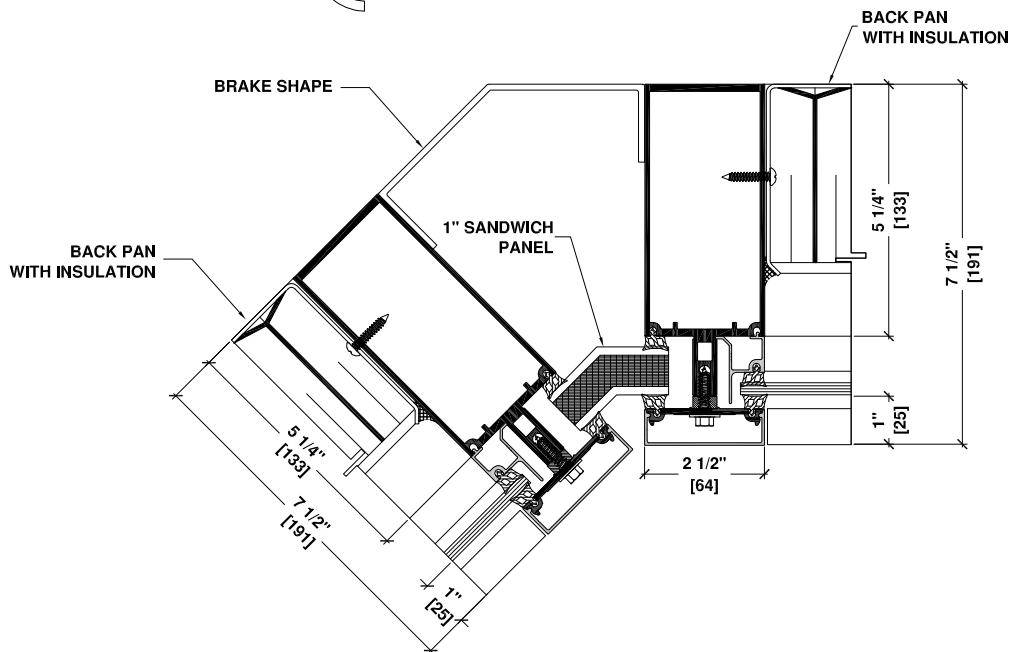
21 5 1/4" VERTICAL TUBE
135° OUTSIDE CORNER
FIXED GLASS - FIXED GLASS



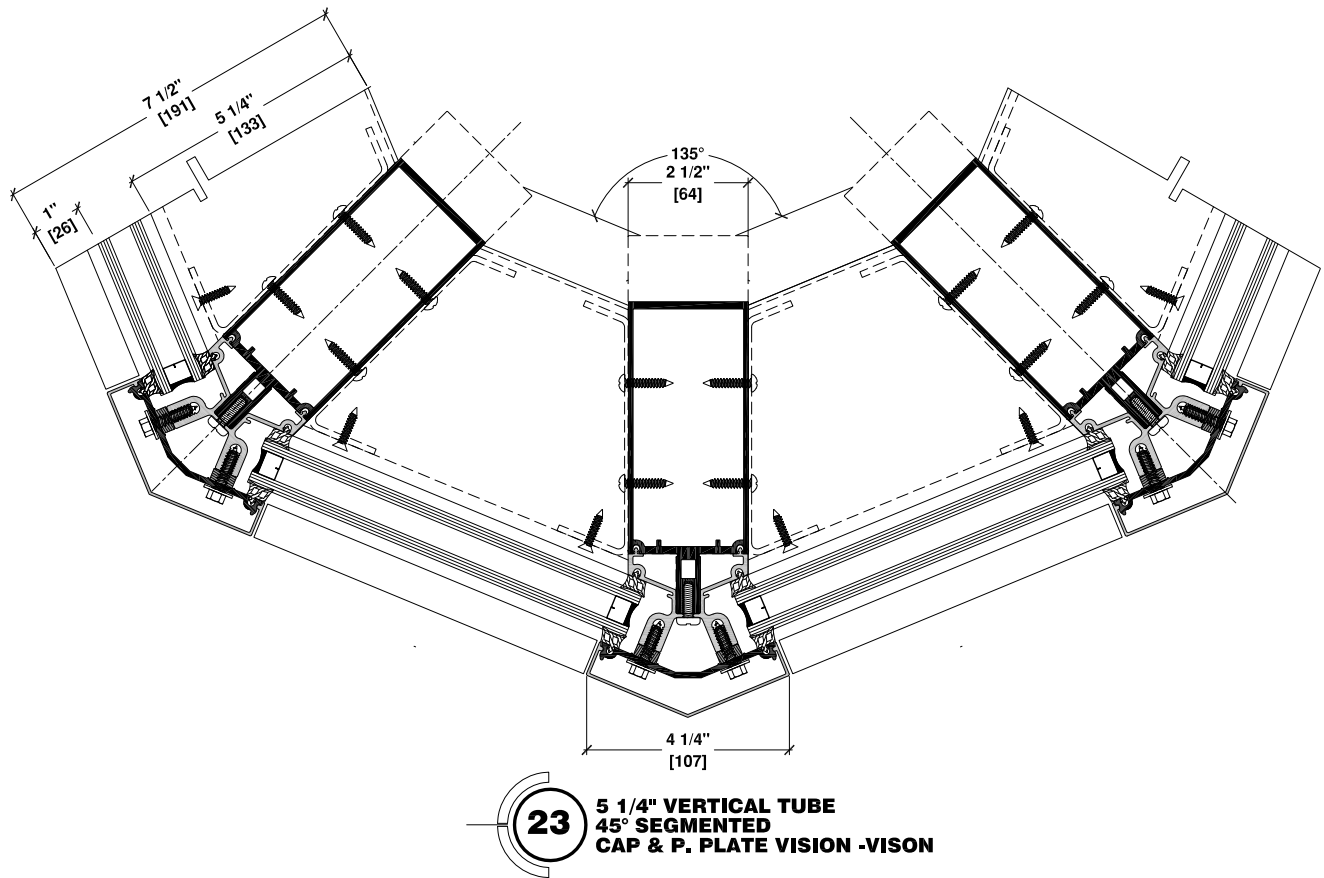
22 5 1/4" VERTICAL TUBE
135° INSIDE CORNER
FIXED GLASS - FIXED GLASS

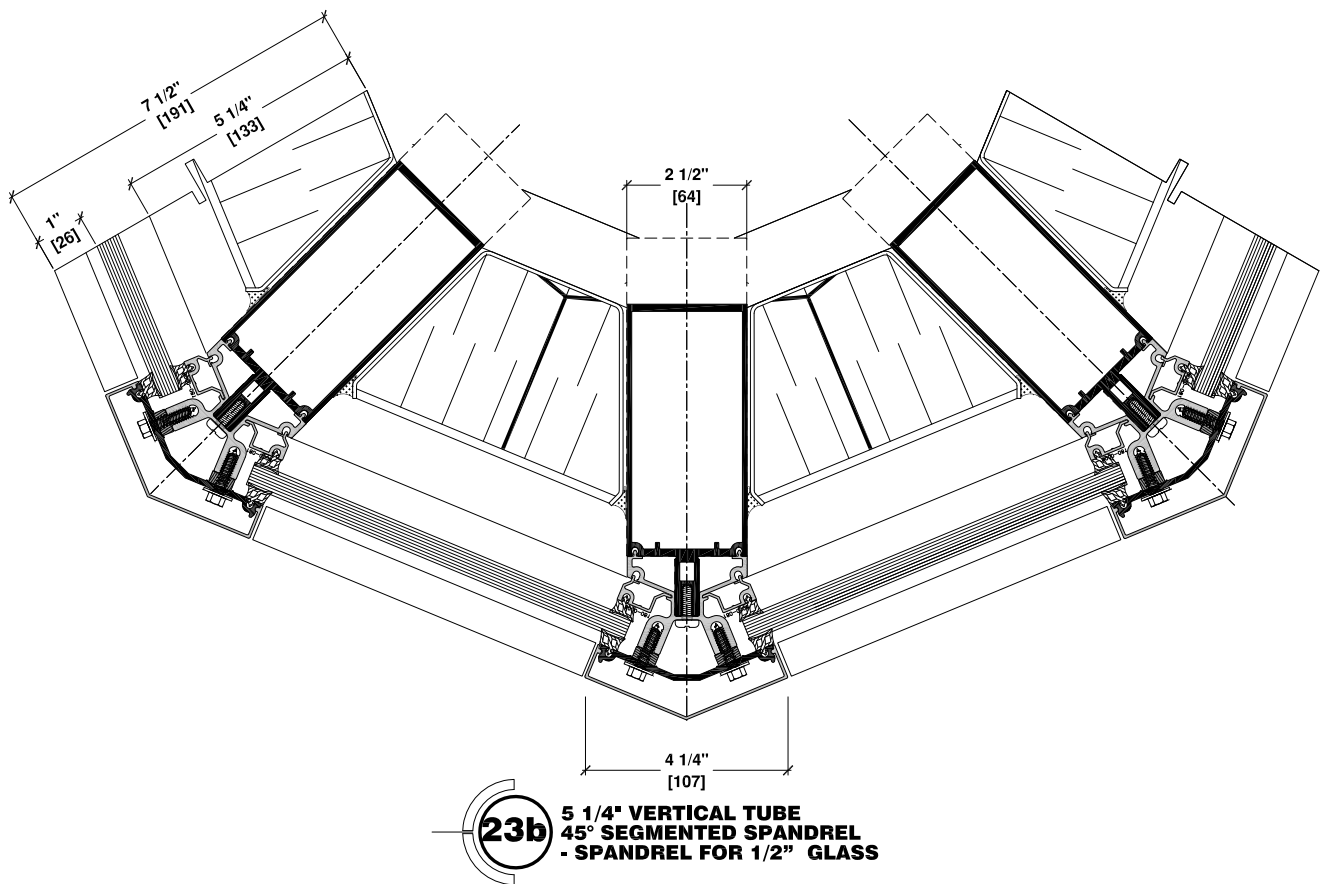


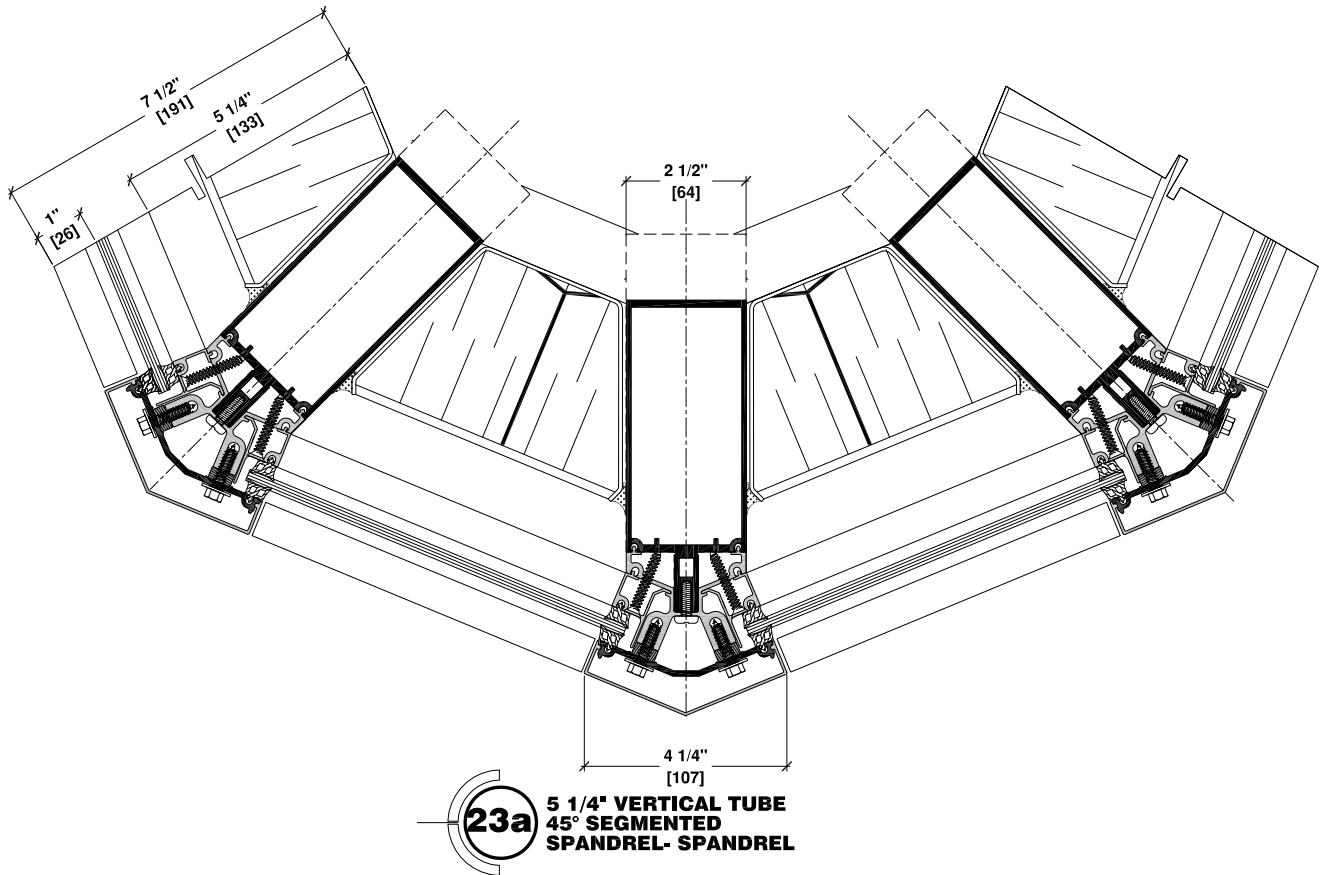
21a 5 1/4" VERTICAL TUBE
135° OUTSIDE CORNER WITH
SPANDREL - SPANDREL



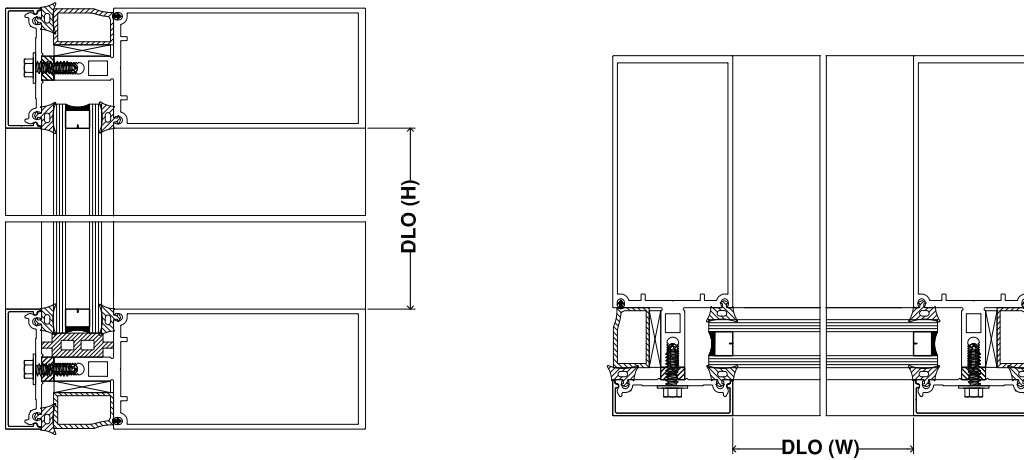
22a 5 1/4" VERTICAL TUBE
135° INSIDE CORNER WITH
SPANDREL - SPANDREL





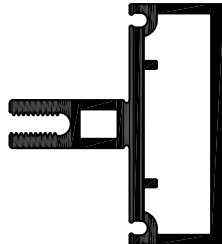


GLASS CALCULATION

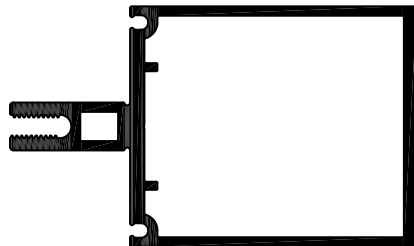


1/4" (6mm)	$\text{Glass (W)} = \text{DLO(W)} + 1" (25.4\text{mm})$
1/2" (12mm)	$\text{Glass (H)} = \text{DLO(H)} + 1" (25.4\text{mm})$
1" (25.4mm)	

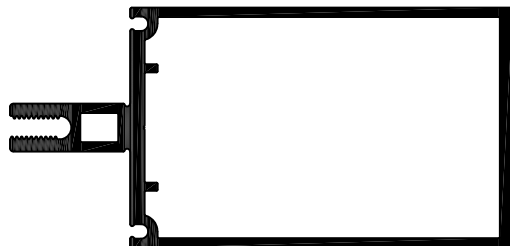
Note: use the appropriate spline



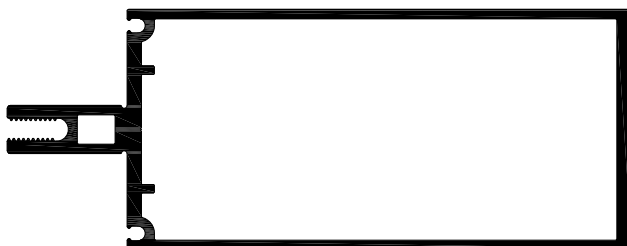
PART #: 8000-001
1" (25.4mm) MULLION
2 1/2" X 1"
(63.5mm)X(25.4mm)
(SHEAR BLOCK NOT PROVIDED)



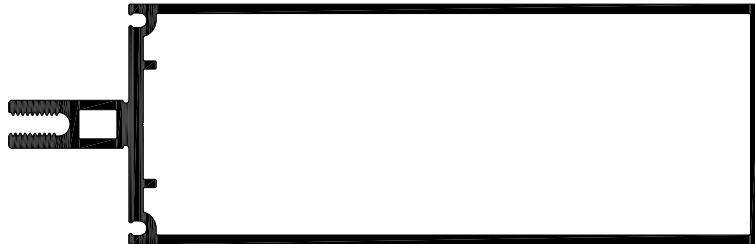
PART #: 8000-002
3" (76.2mm) MULLION
2 1/2" X 3"
(63.5mm)X(76.2mm)



PART #: 8000-003
4" (101.6mm) MULLION
2 1/2" X 4"
(63.5mm)X(101.6mm)



PART #: 8000-004
5 1/4" (133.35mm) MULLION
2 1/2" X 5 1/4"
(63.5mm)X(133.35mm)



PART #: 8000-005
6-5/8" (168.27mm)
MULLION
2 1/2" X 6 5/8"
(63.5mm)X(168.275mm)

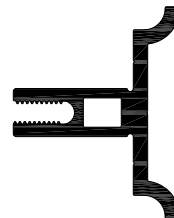


PART #: 8000-007
8" (203.2mm) MULLION
2 1/2" X 8"
(63.5mm)X(203.2mm)



PART #: 8000-008
10" (254mm) MULLION
BODY
2 1/2" X 10"
(63.5mm)X(254mm)

Note:
Secure the neck to the mullion
using two rows of # 12 screws
spaced at 12" O.C., one row on
each side of the neck.
Countersink the heads of
screws.



PART# 8000-009
ADAPTOR FOR 10"
MULLION



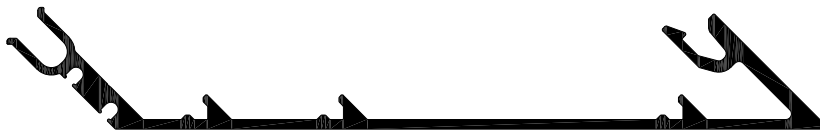
PART# 8000-016
CORNER SPLIT
MALE MULLION
CAPPED FOR 4"
BACK SECTION



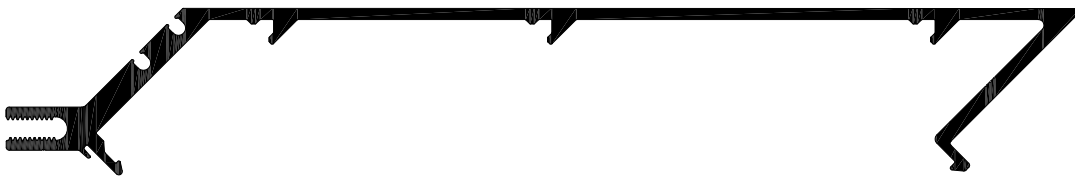
PART# 8000-026
CORNER SPLIT
FEMALE MULLION
CAPPED FOR 4"
BACK SECTION



PART# 8000-017
CORNER SPLIT
MALE MULLION
CAPPED FOR 5 1/4"
BACK SECTION



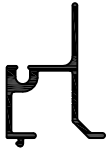
PART# 8000-027
CORNER SPLIT
FEMALE MULLION
CAPPED FOR 5 1/4"
BACK SECTION



PART# 8000-018
CORNER SPLIT
MALE MULLION
CAPPED FOR 6 5/8"
BACK SECTION



PART# 8000-028
CORNER SPLIT
FEMALE MULLION
CAPPED FOR 6 5/8"
BACK SECTION



PART #: 8000-080
ADAPTOR
SINGLE GLAZED
1/4" (6mm)



PART #: 8000-081
ADAPTOR
SINGLE GLAZED
1/2" (12mm)



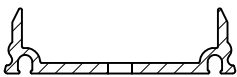
PART #: 8000-083
ADAPTOR
SINGLE GLAZED
1/4" (6.35mm)



PART #: 8000-600
PRESSURE PLATE
DRY GLAZING
(PRE-PUNCHED)



PART #: 8000-601
PRESSURE PLATE
WET GLAZING
(PRE-PUNCHED)



PART #: 8000-620
FIBER GLASS
PRESSURE PLATE
DRY GLAZING
(PRE-PUNCHED)



PART #:8000-602
PRESSURE PLATE
DRY GLAZING



PART #:8000-050
2 1/2" PURLIN BAR



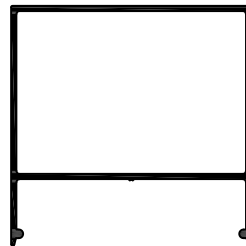
PART #:8000-030
SNAP ON CAP
3/4" (19mm)



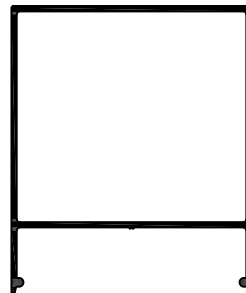
PART #: 8000-031
SNAP ON CAP
1" (25.4mm)



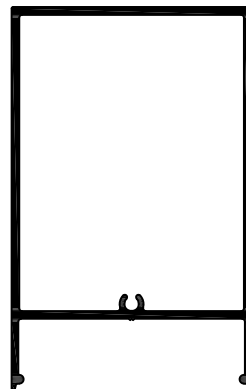
PART #: 8000-032
SNAP ON CAP
1 1/2" (38.1mm)



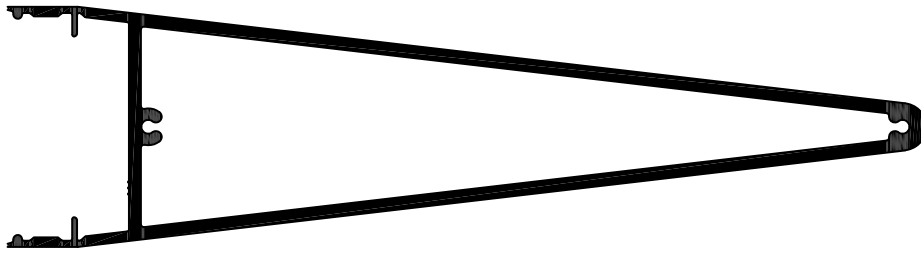
PART #:8000-034
SNAP ON CAP
2 1/2" (63.5mm)



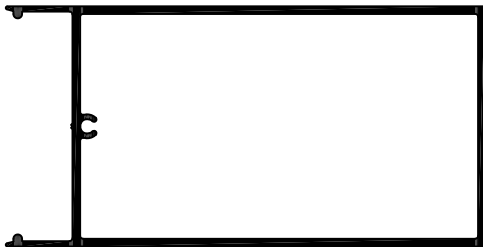
PART #:8000-035
SNAP ON CAP
3" (76.2mm)



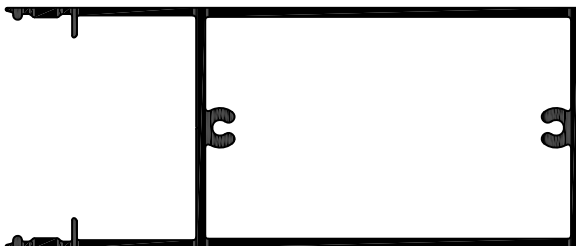
PART #:8000-036
SNAP ON CAP
4" (101.6mm)



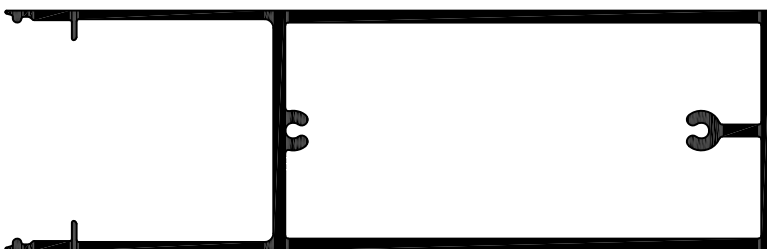
PART #:8000-045
SLOPED CAP
9 1/2" (241.3mm)
USE WITH 8000-602
& 8000-620 PRESSURE
PLATE ONLY



PART #:8000-037
SNAP ON CAP 5"
(127mm)



PART #:8000-038
SNAP ON CAP
6" (152.4mm)
USE WITH 8000-602
& 8000-620 PRESSURE
PLATE ONLY



PART #:8000-039
SNAP ON CAP
8" (203.2mm)
USE WITH 8000-602
& 8000-620 PRESSURE
PLATE ONLY



PART #:8000-044
4" X 3/4" SNAP ON CAP



PART #:8000-046
5" X 3/4" SNAP ON CAP
USE WITH DOUBLE
MULLION & DOUBLE
PRESSURE PLATE



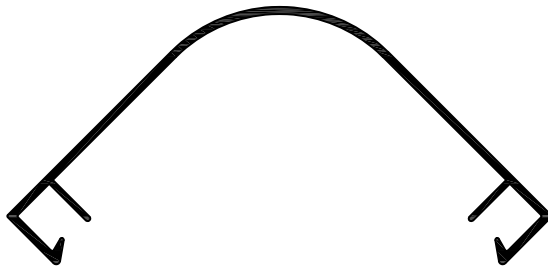
PART #:8000-047
6" X 3/4" SNAP ON CAP



PART #:8000-626
PRESSURE PLATE
FOR 4" SNAP ON CAP
(8000-044)



PART #:8000-626
PRESSURE PLATE
FOR 6" SNAP ON CAP
(8000-047)



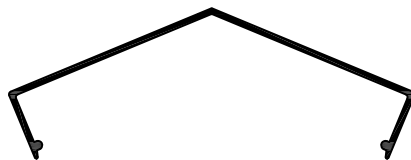
PART #:8000-040
SNAP ON CAP FOR 90°
OUTSIDE CORNER



PART #:8000-608
PRESSURE PLATE FOR 90°
OUTSIDE CORNER



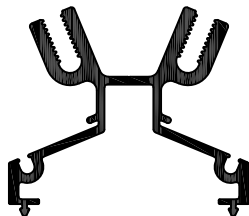
PART# 8000-618
NECK ADAPTOR FOR
90° CORNER ADAPTOR



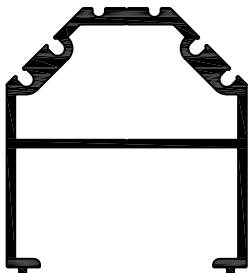
PART #:8000-042
SNAP ON CAP FOR 45°
OUTSIDE CORNER



PART #:8000-610
PRESSURE PLATE FOR
45° OUTSIDE CORNER



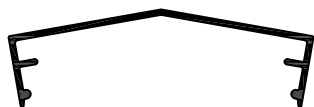
PART #8000-086
45° CORNER
ADAPTOR



PART# 8000-067
CORNER ADAPTOR



PART #: 8200-083
ADAPTOR SINGLE
GLAZED 1/4" (6mm) FOR
90° V.CORNER



PART #8000-041
SNAP ON CAP
SEGMENTED



PART # 8000-609
PRESSURE PLATE
OUTSIDE-SEGMENTED



PART #: 8000-082
ADAPTOR SEGMENTED
SINGLE GLAZED
1/4" (6mm)



PART #8000-085
SEGMENTED
ADAPTOR



PART #:8000-071
FLUSH DOOR
ADAPTOR



PART #:8000-072
FLUSH DOOR
ADAPTOR CAP



PART #: 1450-014
DOOR STOP FOR
1 3/4" (44.5mm) DOOR



PART #: 1450-015
DOOR STOP FOR
2" (50.8mm) DOOR



PART #: 8000-075
DOOR STOP BASE



PART #: 8000-076
DOOR STOP COVER



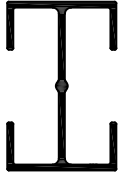
PART #: 8000-070
EXPOSED DOOR
ADAPTOR



PART #: 8000-701
DOOR ADAPTOR
USE 9906-401 PVC
DOOR ADAPTOR



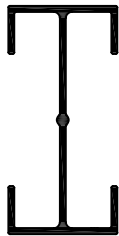
PART #: 8200-083
ADAPTOR SINGLE
GLAZED 1/4" (6mm)
FOR 90° CORNER



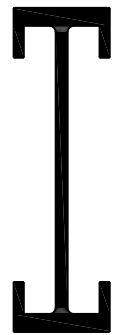
PART #:8000-603-10
ALUMINUM REINFORCING
FOR (8000-003) 24'-2" LONG



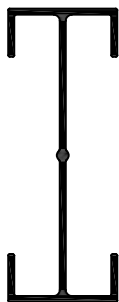
PART #:8000-607-10
ALUMINUM REINFORCING
FOR (8000-007) 24'-2" LONG



PART #:8000-604-10
ALUMINUM REINFORCING
FOR (8000-004) 24'-2" LONG



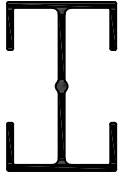
PART #:8000-617-10
ALUMINUM REINFORCING
FOR (8000-007 & 8000-008)
24'-2" LONG



PART #:8000-605-10
ALUMINUM REINFORCING
FOR (8000-005) 24'-2" LONG

Note:

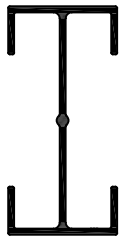
Typical mullion reinforcing should be connected through the curtain wall neck using two rows of #12 screws spaced at 12" O.C. Additional screws should be added on the sides at all horizontal mullion locations. Note that the above reinforcing connection is only to be used as a guideline. Each project will need to be reviewed by the project engineer and the reinforcing connection designed accordingly.



PART #:8000-953-10
SPlice PLATE FOR
(8000-003) @ 24" LONG



PART #:8000-957-10
SPlice PLATE FOR
(8000-007) @ 24" LONG



PART #:8000-954-10
SPlice PLATE FOR
(8000-004) @ 24" LONG



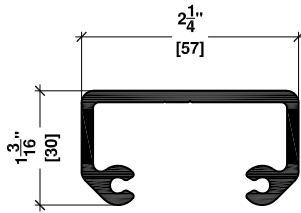
PART #:8000-955-10
SPlice PLATE FOR
(8000-005) @ 24" LONG

Note:

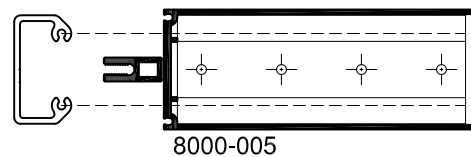
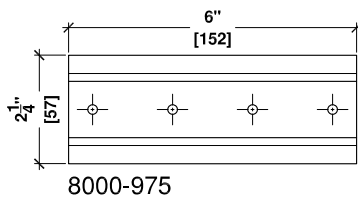
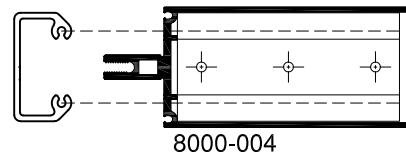
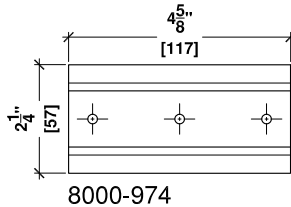
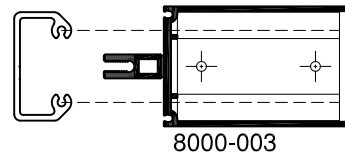
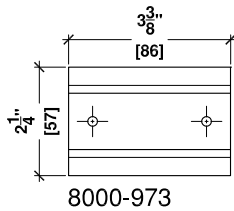
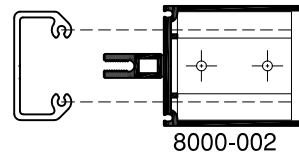
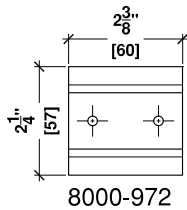
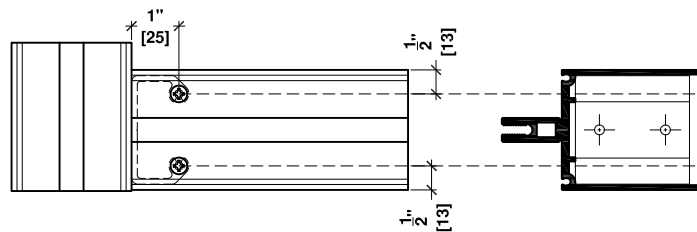
Typical mullion splicing should be approximately 24" long and be connected through the sides of the curtain wall using four rows of #12 screws spaced at 4" O.C. Note that the above splice connection is only to be used as a guideline. It is recommended that, whenever possible, splices are located at the point of least stress. Stresses at the splice location can vary substantially and must be reviewed by the project engineer and designed accordingly.

**SERIES 8000 CAPTURED
SHEAR BLOCK**

PART #: 8000-972 FOR 3" MULLION
PART #: 8000-973 FOR 4" MULLION
PART #: 8000-974 FOR 5 1/4" MULLION
PART #: 8000-975 FOR 6 5/8" MULLION

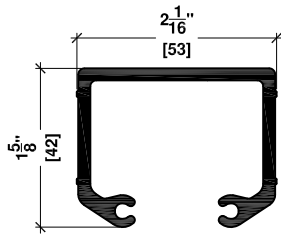
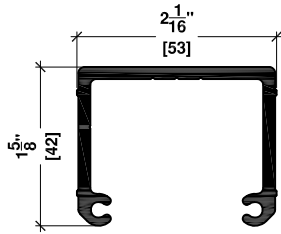


SHEAR BLOCK LOCATION



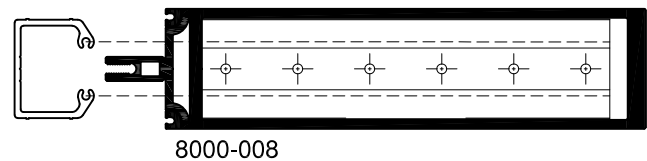
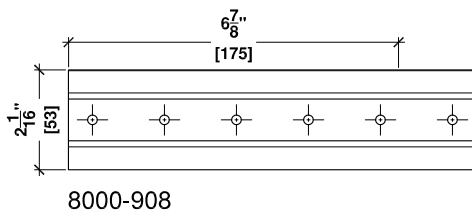
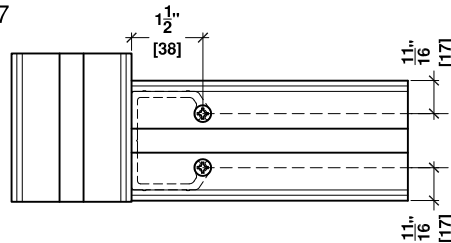
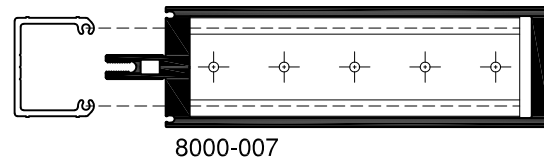
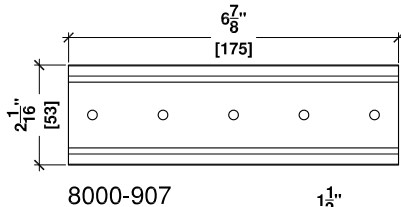
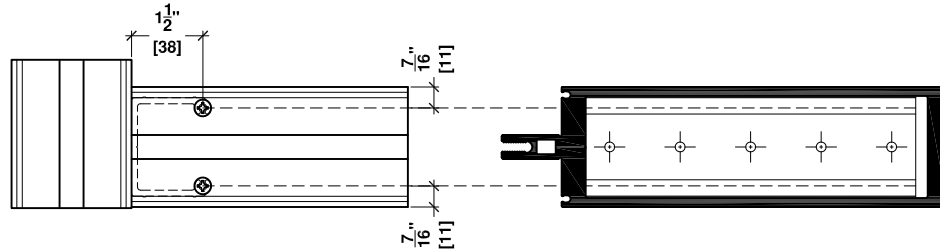
**SERIES 8000 CAPTURED
SHEAR BLOCK**

PART#: 8000-907 FOR 8" MULLION



PART#: 8000-908 FOR 10" MULLION

SHEAR BLOCK LOCATION



SPIGOTS MOUNTING ON VERTICAL

Spigots connect the horizontal mullions to the vertical mullions using a series of screws. The load on a horizontal mullion will be a combination of several forces which include items such as lateral wind loads, vertical dead loads, lateral guard loads, seismic loads etc.

The magnitude of these loads will vary depending on the frame size, configuration and location. The capacity of a spigot connection will depend on the number, size and type of fasteners used, along with the thickness of the curtain wall material.

Based on the use of #10, high strength steel screws, placed horizontally along the center line of the spigot, we recommend the following minimum number of fasteners for spigot connection:

1. For Curtain wall frames with 5-1/4" back sections or smaller, use minimum of (3) three screws.
2. For Curtain wall frames with 6-5/8" back sections, use minimum of (4) four screws.
3. For Curtain wall frames with 8" back sections, use a minimum of (5) five screws.
4. For Curtain wall frames with 10" back sections, use a minimum of (6) six screws.

Note that above is only a guideline based on commonly used assemblies and estimated loading. This is not a guarantee that the number of fasteners recommended is structurally adequate for every application using curtain wall frames of the size indicated. All framing and connections should be reviewed by the project engineer to insure the connections are adequate for the project.



PART #: 8000-918

BRACKET(1) 90° CORNER

2-1/4" (57.40mm)

USE TO CONNECT HORIZONTAL MULLION TO 90° CORNER.

1 PIECE FOR EACH OF 4", 5 1/4" & 6 5/8" MULLION. SEE Fig.1 BELOW.



PART #: 8000-919

BRACKET (2) FOR 90° CORNER

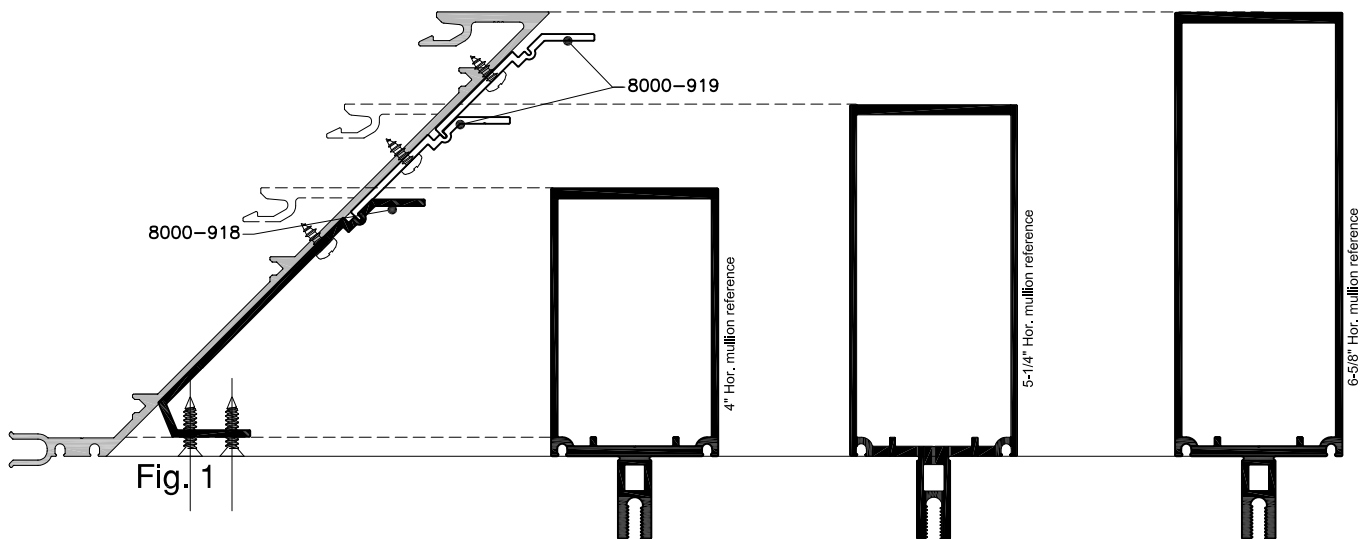
2-1/4" (57.40mm)


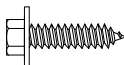




USE IN COMBINATION WITH 8000-918 TO CONNECT HORIZONTAL MULLION TO 90° CORNER.





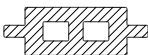
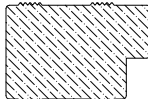
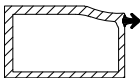




1 PIECE FOR 5 1/4" MULLION.

2 PIECES FOR 6 5/8" MULLION.

SEE Fig.1 BELOW.



DRAWING	DESCRIPTION	APPLICATION	QTY/ JOINT
	PART #: 9902-503 # 10 X 1" PH SCREW	FASTEN SHEAR BLOCK TO VERTICAL MULLIONS	2-3
	PART #: 9902-009 # 1/4-20 X 1" HEX WASHER MACHINE SCREW	FASTEN PRESSURE PLATE TO MULLIONS	@ 6" C/C
	PART #: 9902-514 # 10-1 1/2" FH SCREW	FASTEN SHEAR BLOCK TO HORIZONTAL MULLION & FASTEN SINGLE GLAZED ADAPTOR TO MULLION	@ 6" C/C
	PART #: 9902-513 #10-1" FH SCREW	FASTEN BRACKET FOR 90 DEGREE CORNER UNTO MULLION	@ 6" C/C
	PART #: 9902-603	FASTEN 45 DEGREE SEGMENTED ADAPTOR UNTO MULLION	@ 6" C/C
	PART #: 9902-008 SCREW 1/4-20 x 2" ZINC	FASTEN CORNER ADAPTOR TO MULLION AT 90 DEGREE CORNER.	@ 6" C/C

	PART #: 9903-005 1/4" THERMAL BREAK	THERMAL BARRIER
	PART #: 9903-105 1/4" GLAZING SPLINE	APPLY TO MULLION AND DRY GLAZED PRESSURE PLATE
	PART #: 9904-003 1/4" SHIM TAPE	APPLY TO WET PRESSURE PLATE
	PART #:9903-145 BULB SEAL	APPLY TO THE DOOR STOP
	PART #: 9903-205 SETTING BLOCK	TO REST GLASS ON
	PART #: 9903-310 CORNER PLUG	APPLY ONE TO EACH CORNER
	PART #: 9906-108 POCKET FILLER	APPLY INTO THE OUTSIDE POCKET OF EACH PERIMETER
	PART #: 9903-213 AIR SEAL GASKET	AIR SEAL GASKET ON 90° CORNER SPLIT MULLION
	PART #: 9906-401 PVC DOOR ADAPTOR	APPLY TO MULLION WHEN USING 8000-701 THERMALLY BROKEN ADAPTOR
	PART #: 9903-207 SETTING BLOCK FOR SINGLE GLASS	2 PER DLO
	PART #: 9903-143-00 BULB-SEAL FOR DOOR STOP	APPLY TO THE DOOR STOP

SYSTEM GLAZING SPLINE AND WEATHERING

AWSF TEST RESULTS

TEST	RESULTS
Air Leakage Rate Test Pressure 240 Pa (5.20 psf)	0.05 L/sec/m ² (0.01 scfm/ft ²)
Water Pressure Achieved	1440 Pa (30.0 psf)
Maximum Structural Pressure Achieved	Test Pressure of 2880 Pa (60 psf) Positive load deflection - 0.25 mm (0.010 in) Negative load deflection - 0.61 mm (0.024 in)
Force Entry Resistance, ASTM F588, Grade 40	Pass

NFRC TEST RESULTS

ITEM	VALUE
Standardized U-Factor	0.4 Btu/hr-ft ² -F

WIND LOAD CHART ASSUMPTIONS

1. SIMPLY SUPPORTED ENDS
2. UNIFORM WIND LOADING IN PSF
3. 100% WIND LOAD FOR STRENGTH
4. 75% WIND LOAD FOR DEFLECTION
5. ALUMINUM ALLOY 6063-T6
6. I= Moment of Inertia
7. S= Section Modulus

DEAD LOAD CHARTS

1. SIMPLY SUPPORTED ENDS
2. UNIFORM WIND IN LBS/FOOT
3. DEAD LOAD APPLIED AT 1/4" POINTS
4. MAXIMUM ALLOWABLE DEFLECTION OF 0.118"
5. CALCULATE GLASS HEIGHT FOR THE GIVEN SPAN FROM THE CHART

Example : For span of 5'-0" using 2-1/2" x 3" Mullion

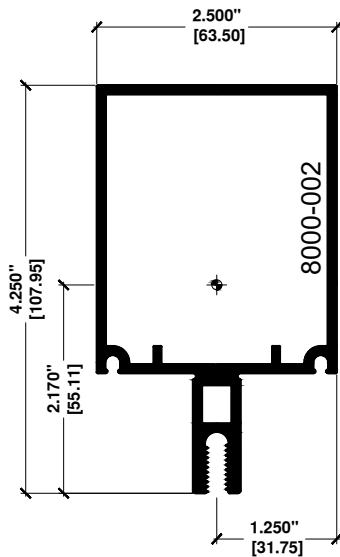
- a. Find the dead load chart for the horizontal mullion you are using for your wall.
- b. Locate span length point on the dead load chart.
- c. Draw vertical line from this point to meet the dead load curve
- d. Draw horizontal line from the meeting point to weight eg. (75lb/ft)axis
- e. This will determine the weight/ft this span can take
- f . Divide the weight (75lb/ft) by the selected glass weight, provided by the glass supplier eg. (6lb/ft), $(75\text{lb/ft} \div 6\text{lb/ft})$
- g. The result will be (12'-6")the max. Height you can use for this span

Note:

1. The Building and Safety Codes govern the design and the glazing type for Building, Curtain Walls, Windows and Entrances.
Commdoor Aluminum has no control and no responsibility for hardware, Glass, Glazing material, Anchoring and Vapour Barrier.
2. The following Charts are for information purpose only. Final structural design to be determined by Structural Engineer

8000-002 MULLION

3" x 2 1/2" (76.20mm x 63.5mm)



8000-002

$$A = 1.468 \text{ IN}^2$$

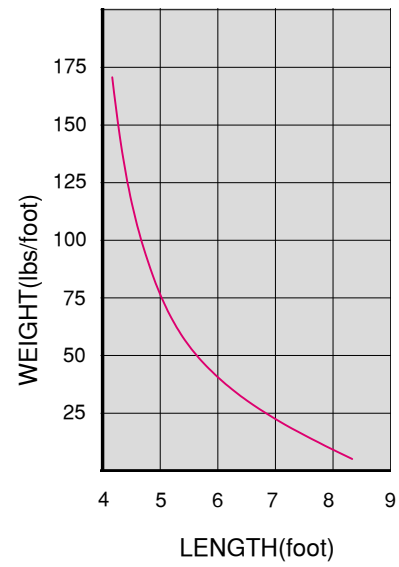
$$I_x = 2.680 \text{ IN}^4$$

$$S_x = 1.235 \text{ IN}^3$$

- A = 20 psf (0.95 KPa)
- B = 25 psf (1.2 KPa)
- C = 30 psf (1.4 KPa)
- D = 35 psf (1.7 KPa)
- E = 40 psf (1.9 KPa)
- F = 45 psf (2.1 KPa)
- G = 50 psf (2.4 KPa)

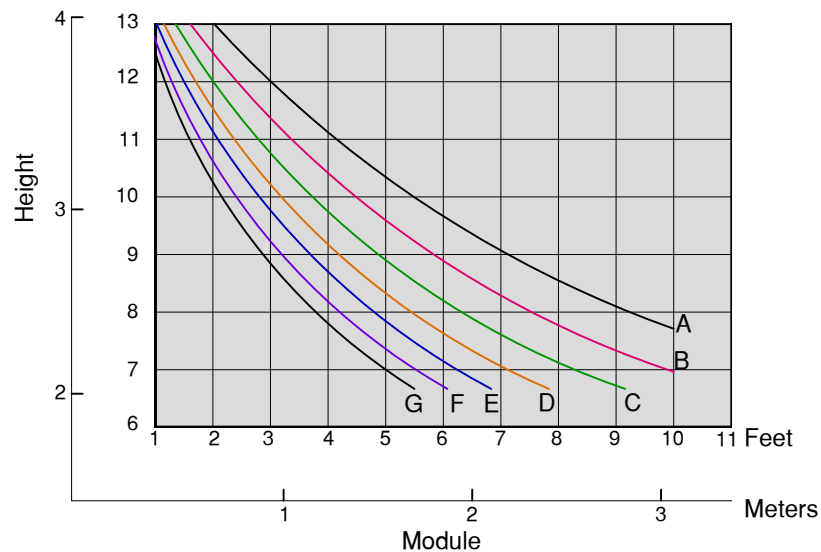
" For information purposes only "
Not for design.

DEAD LOAD



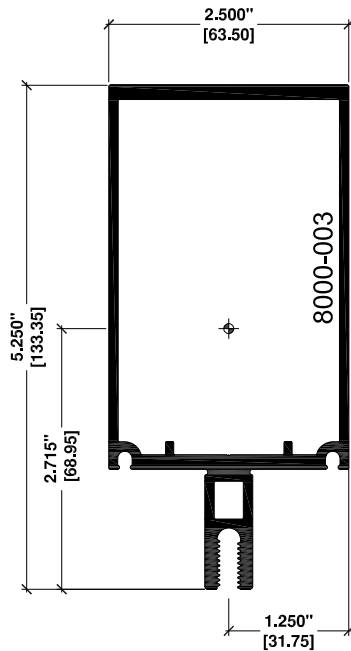
Meters Feet

WIND LOAD



8000-003 MULLION

4" x 2 1/2" (101.45mm x 63.5mm)



8000-003

$$A = 1.869 \text{ IN}^2$$

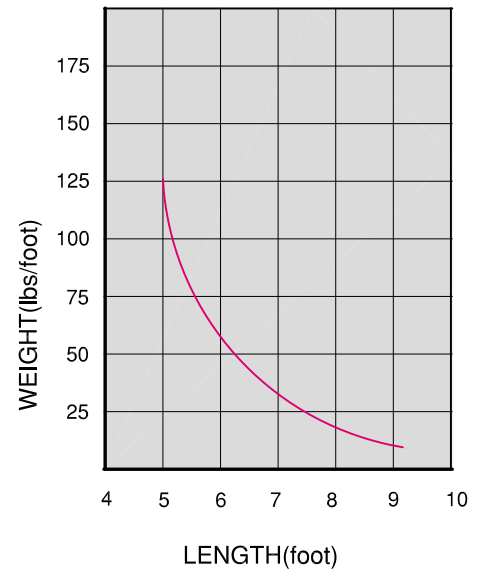
$$I_x = 5.962 \text{ IN}^4$$

$$S_x = 2.097 \text{ IN}^3$$

- A = 20 psf (0.95 KPa)
- B = 25 psf (1.2 KPa)
- C = 30 psf (1.4 KPa)
- D = 35 psf (1.7 KPa)
- E = 40 psf (1.9 KPa)
- F = 45 psf (2.1 KPa)
- G = 50 psf (2.4 KPa)

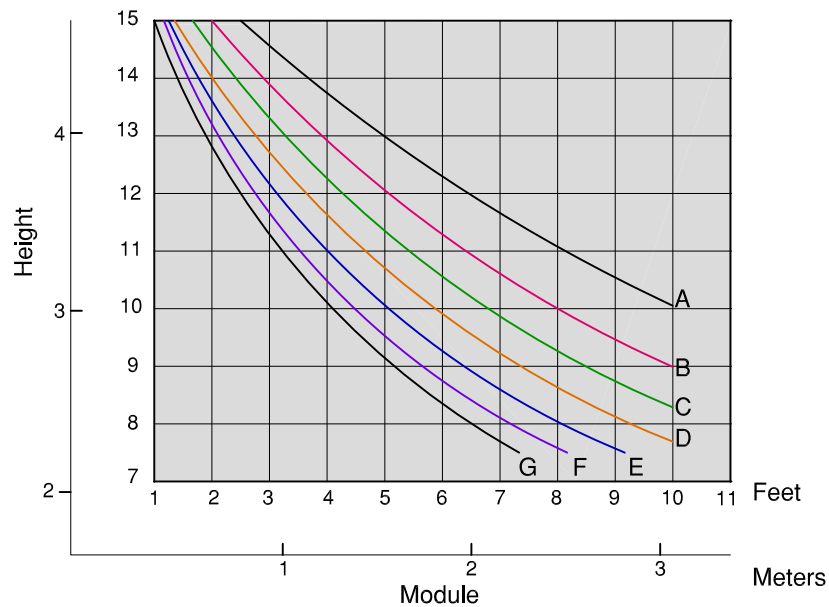
" For information purposes only "
Not for design.

DEAD LOAD



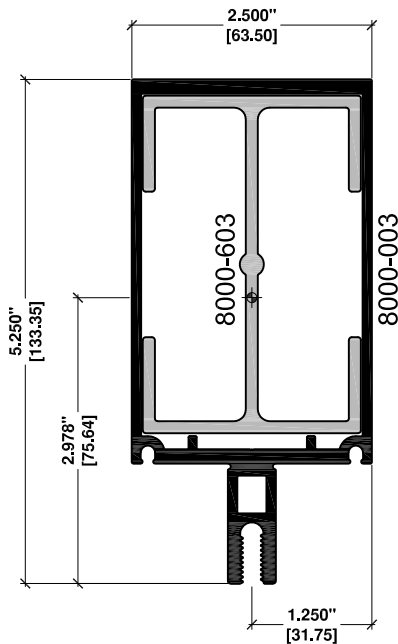
Meters Feet

WIND LOAD



8000-003 REINFORCED MULLION

4" x 2 1/2" (101.45mm x 63.5mm)



8000-003

$$A = 1.869 \text{ IN}^2$$

$$I_x = 5.962 \text{ IN}^4$$

$$S_x = 2.097 \text{ IN}^3$$

8000-603

$$A = 1.444 \text{ IN}^2$$

$$I_x = 2.679 \text{ IN}^4$$

$$S_x = 1.506 \text{ IN}^3$$

Total Properties

$$A = 3.313 \text{ IN}^2$$

$$I_x = 8.641 \text{ IN}^4$$

$$S_x = 3.603 \text{ IN}^3$$

$$A = 20 \text{ psf (0.95 KPa)}$$

$$B = 25 \text{ psf (1.2 KPa)}$$

$$C = 30 \text{ psf (1.4 KPa)}$$

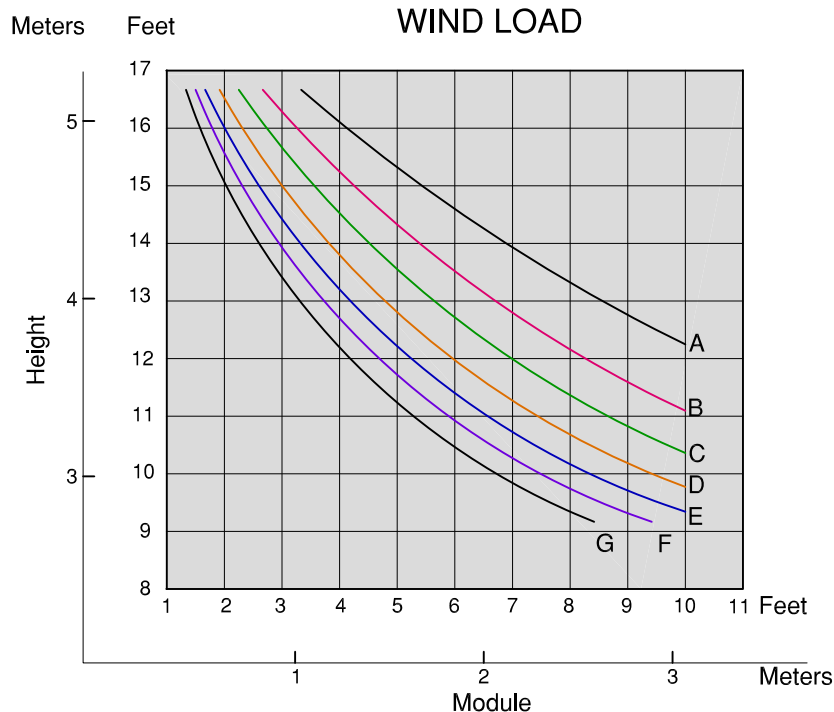
$$D = 35 \text{ psf (1.7 KPa)}$$

$$E = 40 \text{ psf (1.9 KPa)}$$

$$F = 45 \text{ psf (2.1 KPa)}$$

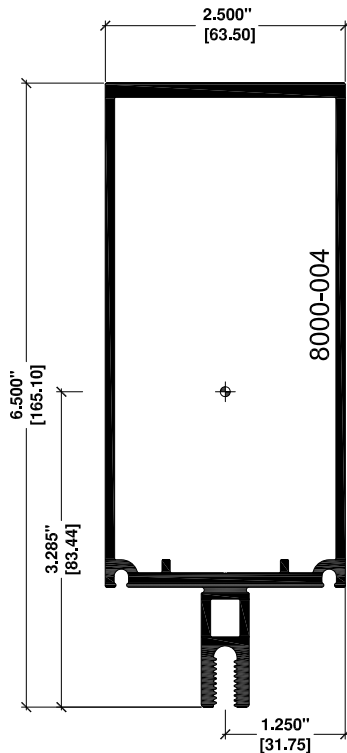
$$G = 50 \text{ psf (2.4 KPa)}$$

" For information purposes only "
Not for design.



8000-004 MULLION

5 1/4" x 2 1/2" (133.35mm x 63.5mm)



8000-004

$$A = 2.114 \text{ IN}^2$$

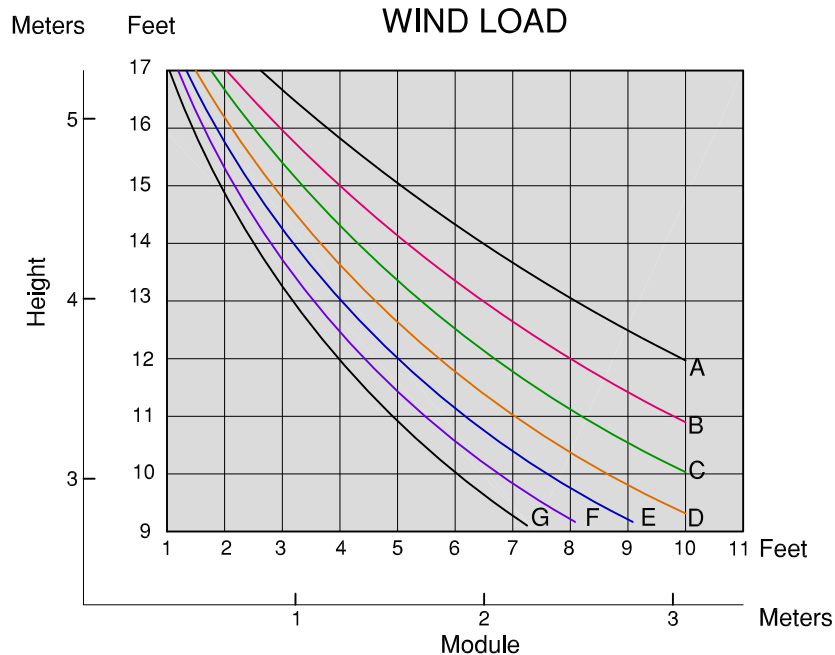
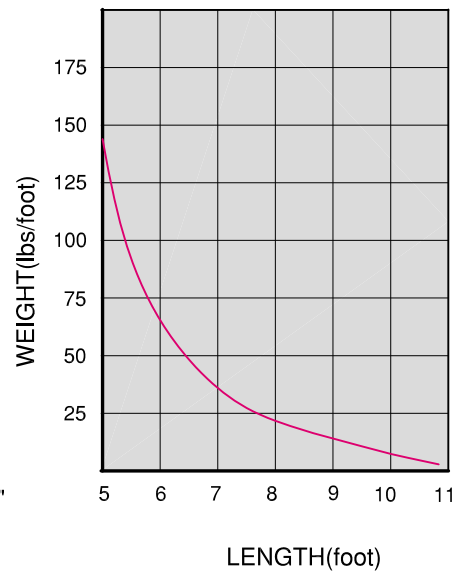
$$I_x = 10.149 \text{ IN}^4$$

$$S_x = 3.090 \text{ IN}^3$$

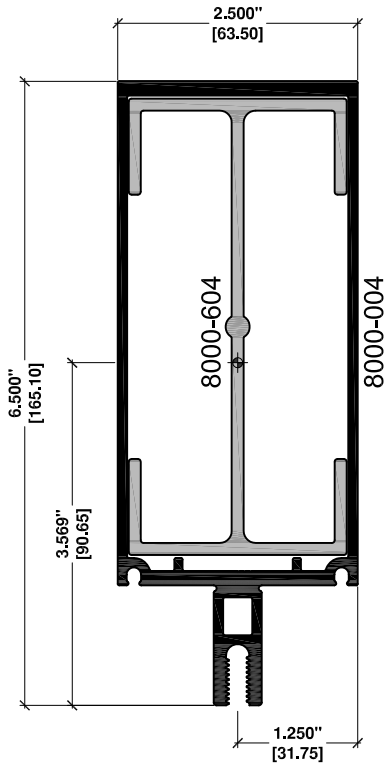
- A = 20 psf (0.95 KPa)
- B = 25 psf (1.2 KPa)
- C = 30 psf (1.4 KPa)
- D = 35 psf (1.7 KPa)
- E = 40 psf (1.9 KPa)
- F = 45 psf (2.1 KPa)
- G = 50 psf (2.4 KPa)

" For information purposes only "
Not for design.

DEAD LOAD



8000-004 REINFORCED MULLION
5 1/4" x 2 1/2" (133.35mm x 63.5mm)



8000-004

$$A = 2.114 \text{ IN}^2$$

$$I_x = 10.149 \text{ IN}^4$$

$$S_x = 3.090 \text{ IN}^3$$

8000-604

$$A = 1.599 \text{ IN}^2$$

$$I_x = 5.517 \text{ IN}^4$$

$$S_x = 2.297 \text{ IN}^3$$

Total Properties

$$A = 3.713 \text{ IN}^2$$

$$I_x = 15.666 \text{ IN}^4$$

$$S_x = 5.387 \text{ IN}^3$$

$$A = 20 \text{ psf (0.95 KPa)}$$

$$B = 25 \text{ psf (1.2 KPa)}$$

$$C = 30 \text{ psf (1.4 KPa)}$$

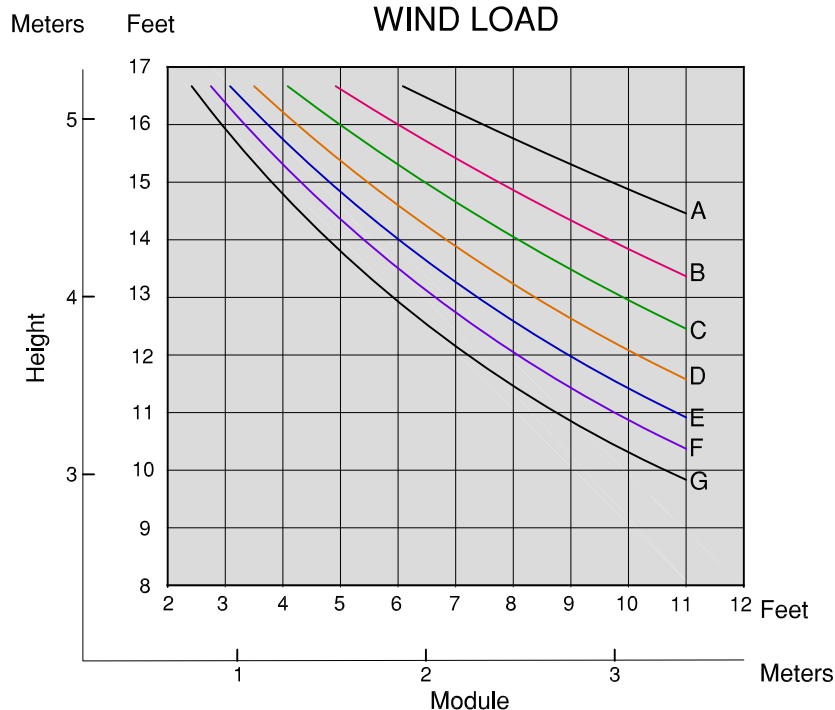
$$D = 35 \text{ psf (1.7 KPa)}$$

$$E = 40 \text{ psf (1.9 KPa)}$$

$$F = 45 \text{ psf (2.1 KPa)}$$

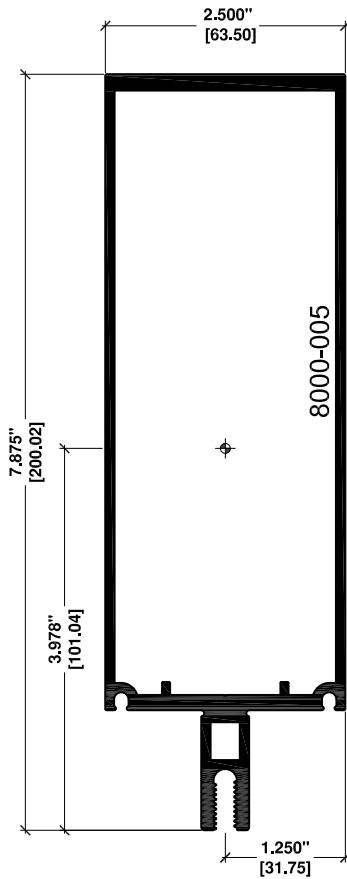
$$G = 50 \text{ psf (2.4 KPa)}$$

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8000-005 MULLION

6 5/8" x 2 1/2" (168.275mm x 63.5mm)



8000-005

$$A = 2.448 \text{ IN}^2$$

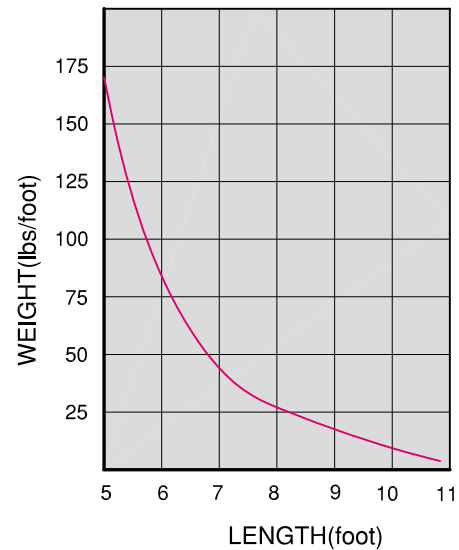
$$I_x = 17.725 \text{ IN}^4$$

$$S_x = 4.456 \text{ IN}^3$$

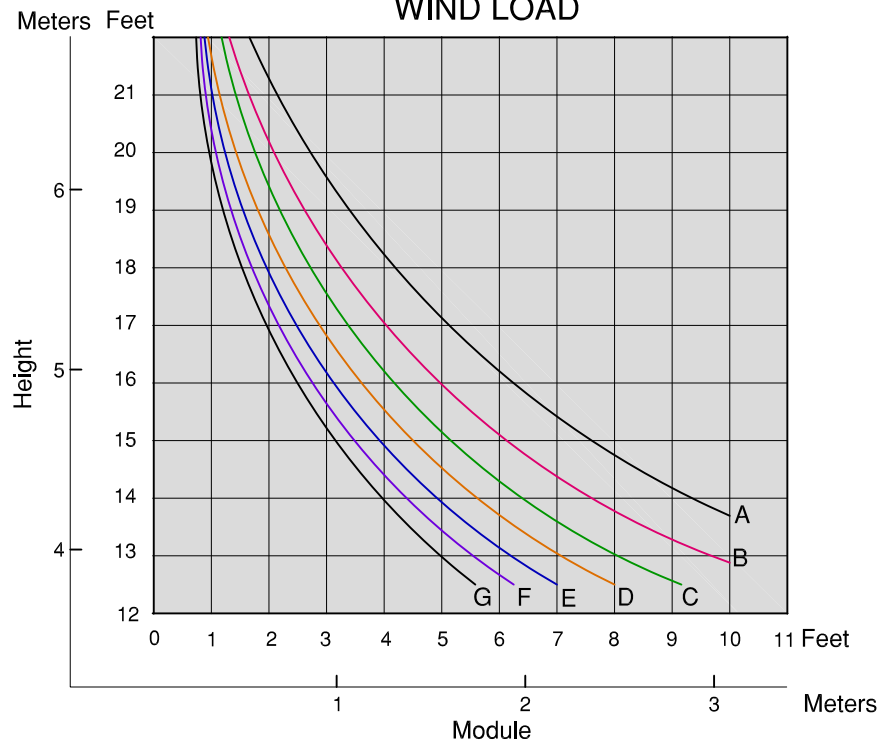
- A = 20 psf (0.95 KPa)
- B = 25 psf (1.2 KPa)
- C = 30 psf (1.4 KPa)
- D = 35 psf (1.7 KPa)
- E = 40 psf (1.9 KPa)
- F = 45 psf (2.1 KPa)
- G = 50 psf (2.4 KPa)

" For information purposes only "
Not for design.

DEAD LOAD

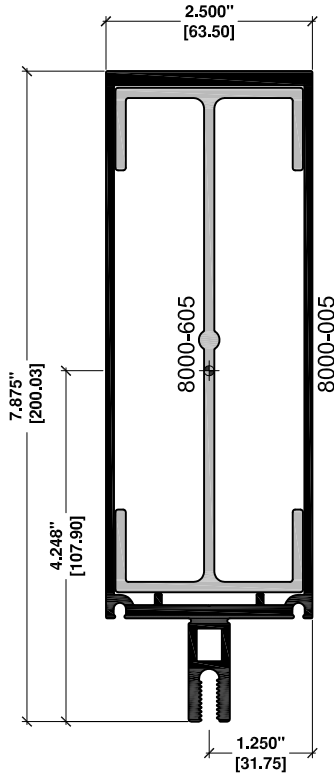


WIND LOAD



8000-005 REINFORCED MULLION

6 5/8" x 2 1/2" (168.275mm x 63.5mm)



8000-005

$$A = 2.448 \text{ IN}^2$$

$$I_x = 17.725 \text{ IN}^4$$

$$S_x = 4.456 \text{ IN}^3$$

8000-605

$$A = 1.768 \text{ IN}^2$$

$$I_x = 10.017 \text{ IN}^4$$

$$S_x = 3.247 \text{ IN}^3$$

Total Properties

$$A = 4.216 \text{ IN}^2$$

$$I_x = 27.742 \text{ IN}^4$$

$$S_x = 7.703 \text{ IN}^3$$

$$A = 20 \text{ psf (0.95 KPa)}$$

$$B = 25 \text{ psf (1.2 KPa)}$$

$$C = 30 \text{ psf (1.4 KPa)}$$

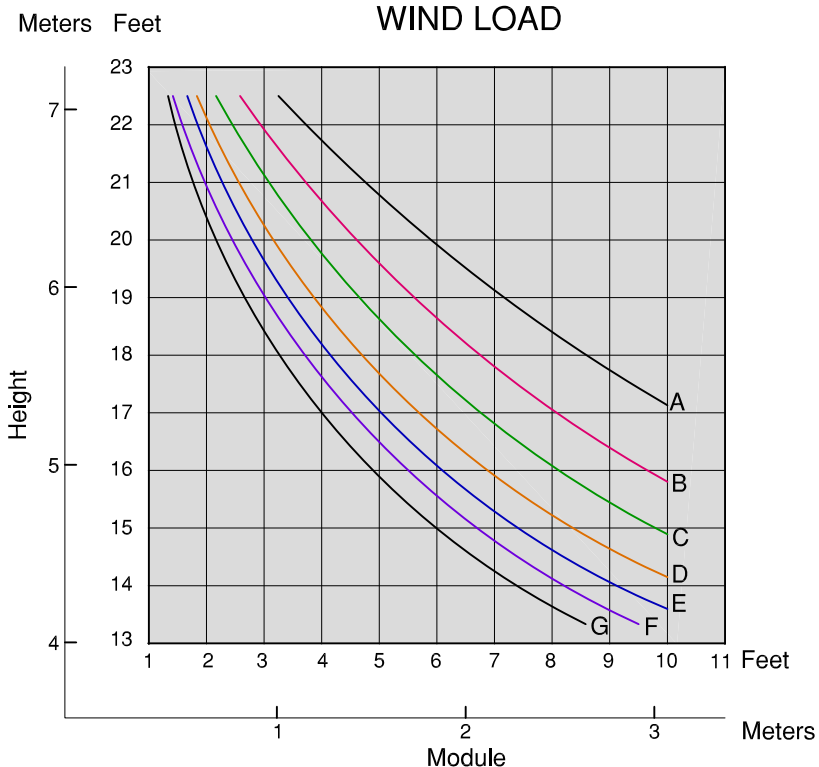
$$D = 35 \text{ psf (1.7 KPa)}$$

$$E = 40 \text{ psf (1.9 KPa)}$$

$$F = 45 \text{ psf (2.1 KPa)}$$

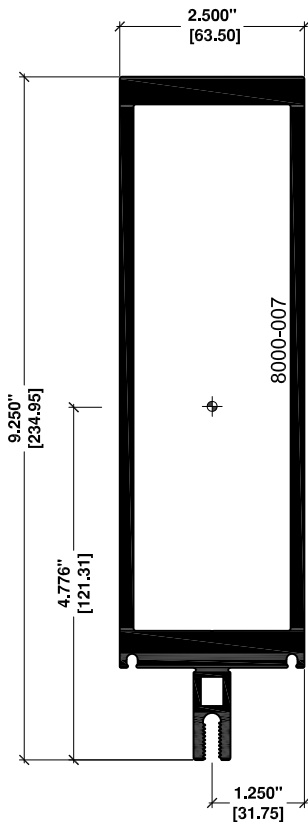
$$G = 50 \text{ psf (2.4 KPa)}$$

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8000-007 MULLION

8" x 2 1/2" (203.2mm x 63.5mm)



8000-007

$$A = 5.171 \text{ IN}^2$$

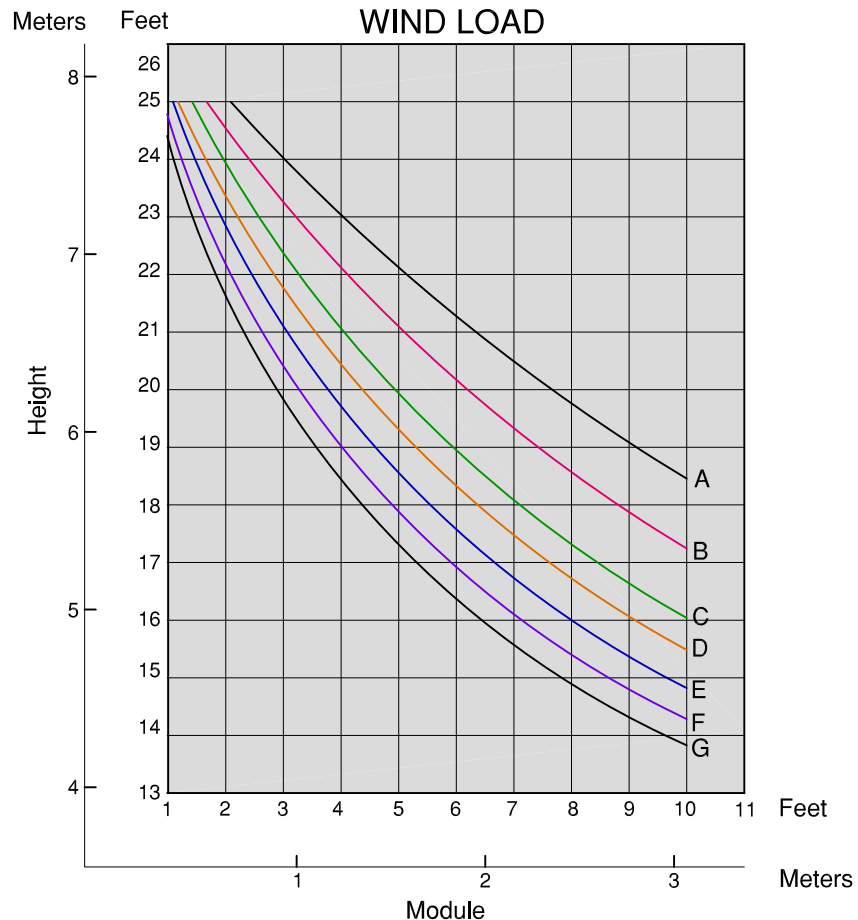
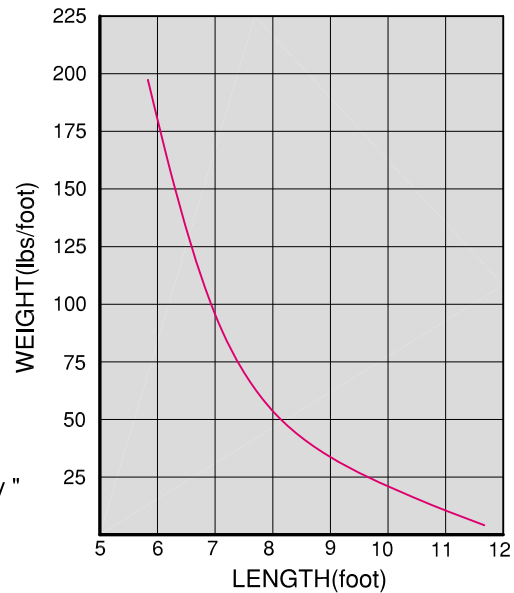
$$I_x = 48.483 \text{ IN}^4$$

$$S_x = 10.151 \text{ IN}^3$$

- A = 20 psf (0.95 KPa)
- B = 25 psf (1.2 KPa)
- C = 30 psf (1.4 KPa)
- D = 35 psf (1.7 KPa)
- E = 40 psf (1.9 KPa)
- F = 45 psf (2.1 KPa)
- G = 50 psf (2.4 KPa)

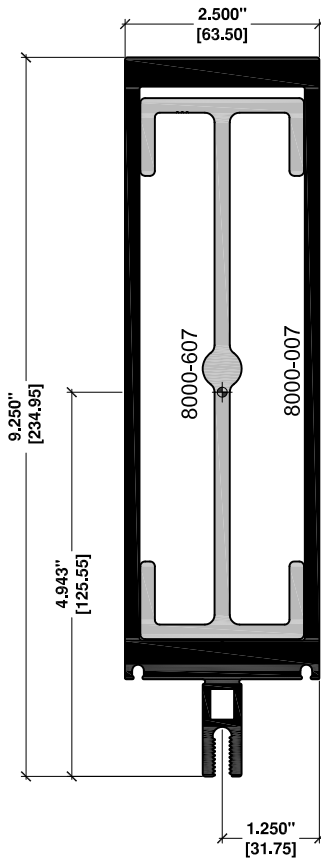
" For information purposes only "
Not for design.

DEAD LOAD



8000-007 REINFORCED MULLION

8" x 2 1/2" (203.2mm x 63.5mm)



8000-007

$$A = 5.171 \text{ IN}^2$$

$$I_x = 48.483 \text{ IN}^4$$

$$S_x = 10.151 \text{ IN}^3$$

8000-607

$$A = 2.794 \text{ IN}^2$$

$$I_x = 18.901 \text{ IN}^4$$

$$S_x = 5.414 \text{ IN}^3$$

Total Properties

$$A = 7.965 \text{ IN}^2$$

$$I_x = 67.384 \text{ IN}^4$$

$$S_x = 15.565 \text{ IN}^3$$

$$A = 20 \text{ psf (0.95 KPa)}$$

$$B = 25 \text{ psf (1.2 KPa)}$$

$$C = 30 \text{ psf (1.4 KPa)}$$

$$D = 35 \text{ psf (1.7 KPa)}$$

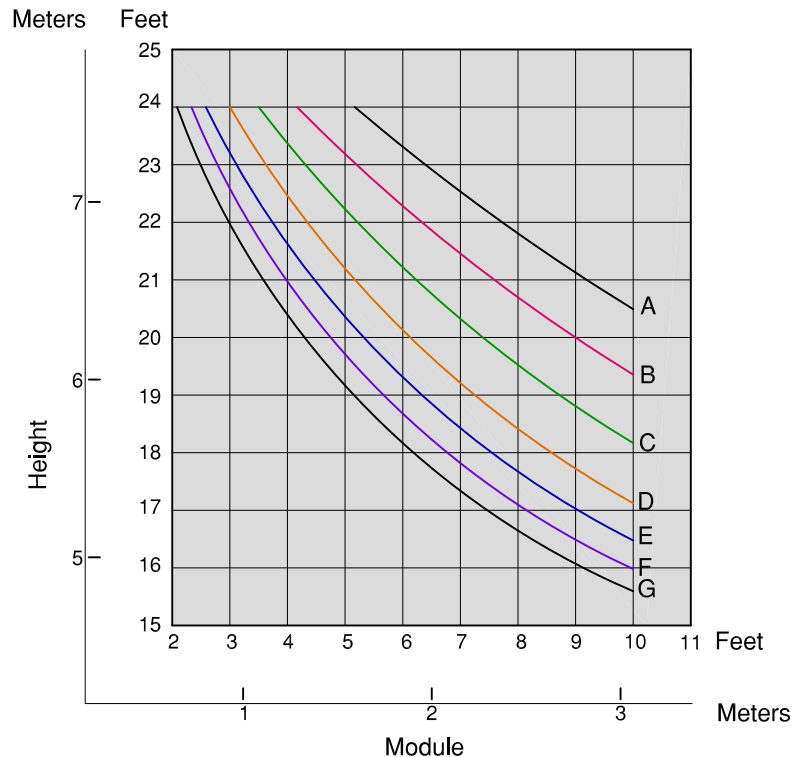
$$E = 40 \text{ psf (1.9 KPa)}$$

$$F = 45 \text{ psf (2.1 KPa)}$$

$$G = 50 \text{ psf (2.4 KPa)}$$

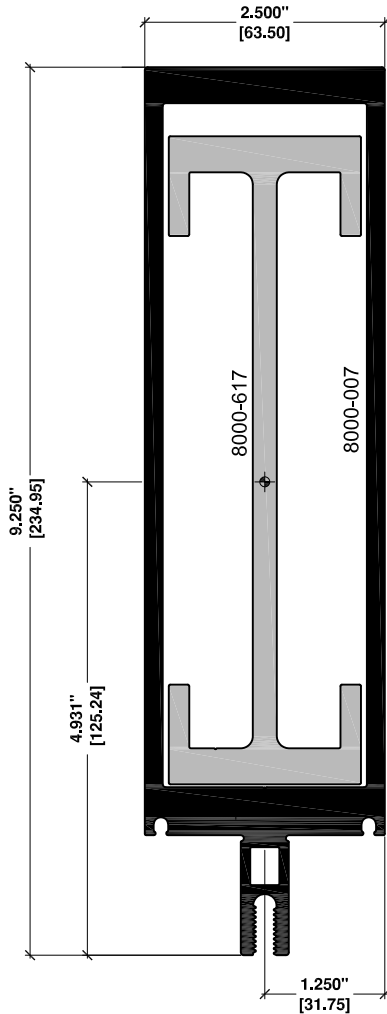
" For information purposes only "
Not for design.

WIND LOAD



8000-007 REINFORCED MULLION

8" x 2 1/2" (203.2mm x 63.5mm)



8000-007

$$A = 5.171 \text{ IN}^2$$

$$I_x = 48.483 \text{ IN}^4$$

$$S_x = 10.151 \text{ IN}^3$$

8000-617

$$A = 3.5651 \text{ IN}^2$$

$$I_x = 23.791 \text{ IN}^4$$

$$S_x = 7.051 \text{ IN}^3$$

Total Properties

$$A = 8.7361 \text{ IN}^2$$

$$I_x = 72.274 \text{ IN}^4$$

$$S_x = 17.202 \text{ IN}^3$$

$$A = 20 \text{ psf (0.95 KPa)}$$

$$B = 25 \text{ psf (1.2 KPa)}$$

$$C = 30 \text{ psf (1.4 KPa)}$$

$$D = 35 \text{ psf (1.7 KPa)}$$

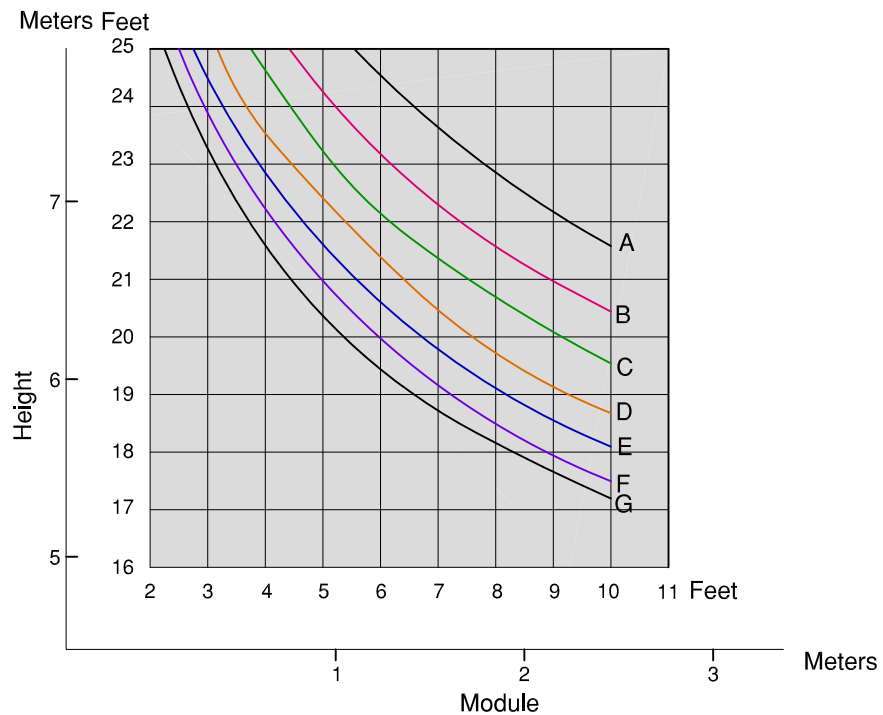
$$E = 40 \text{ psf (1.9 KPa)}$$

$$F = 45 \text{ psf (2.1 KPa)}$$

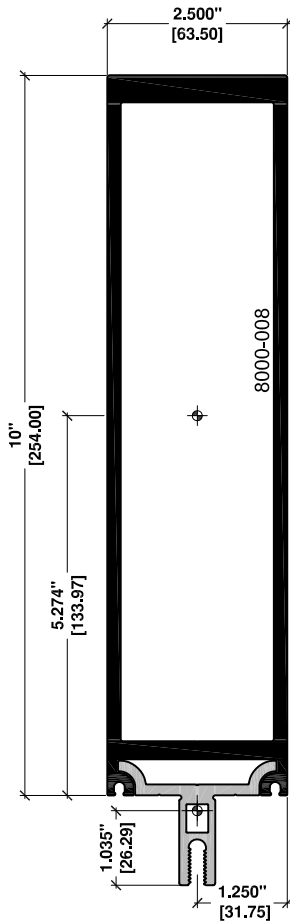
$$G = 50 \text{ psf (2.4 KPa)}$$

" For information purposes only "
Not for design.

WIND LOAD



8000-008 MULLION/8000-009
10" x 2 1/2" (254mm x 63.5mm)



8000-008

$$A = 5.092 \text{ IN}^2$$

$$I_x = 60.021 \text{ IN}^4$$

$$S_x = 11.381 \text{ IN}^3$$

8000-009

$$A = 0.758 \text{ IN}^2$$

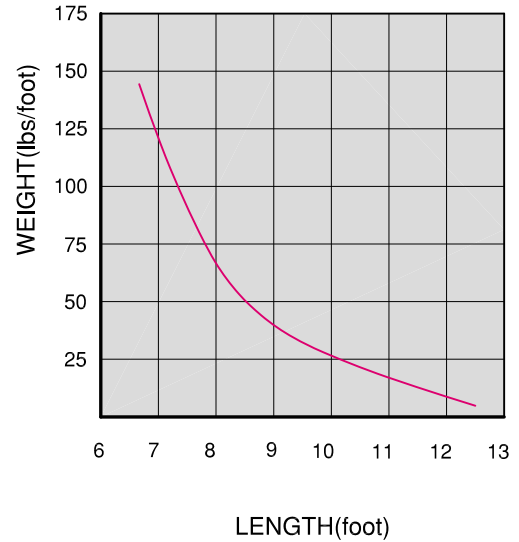
$$I_x = 0.173 \text{ IN}^4$$

$$S_x = 0.170 \text{ IN}^3$$

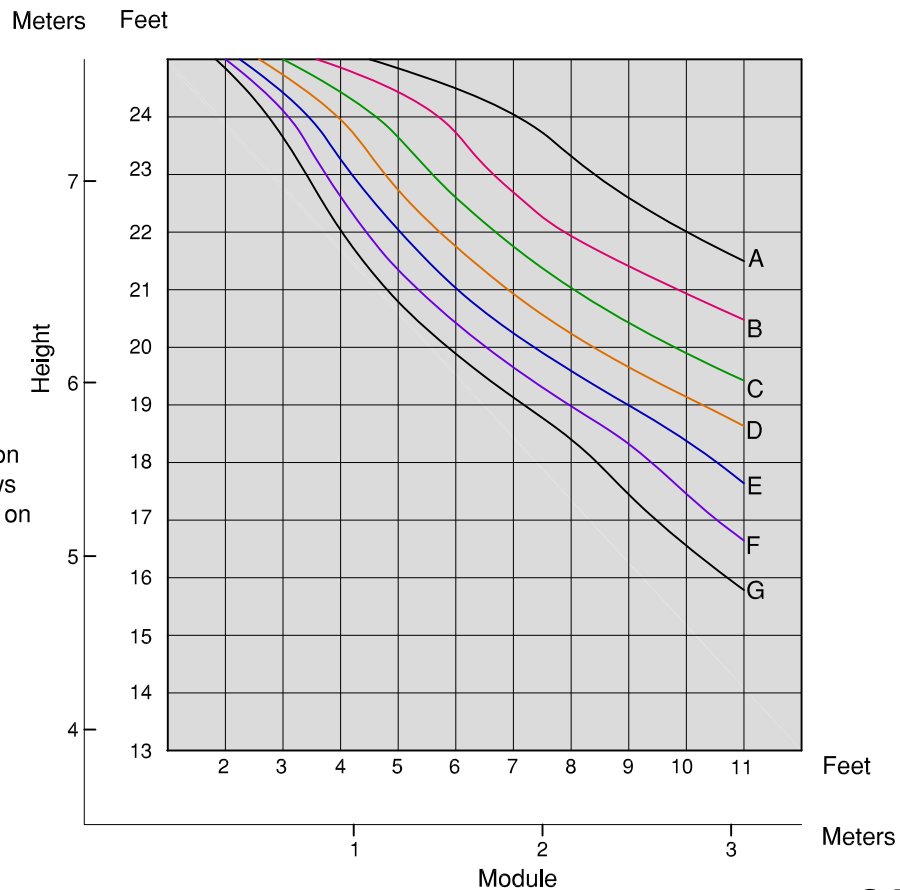
- A = 20 psf (0.95 KPa)
B = 25 psf (1.2 KPa)
C = 30 psf (1.4 KPa)
D = 35 psf (1.7 KPa)
E = 40 psf (1.9 KPa)
F = 45 psf (2.1 KPa)
G = 50 psf (2.4 KPa)

" For information purposes only "
Not for design.

DEAD LOAD



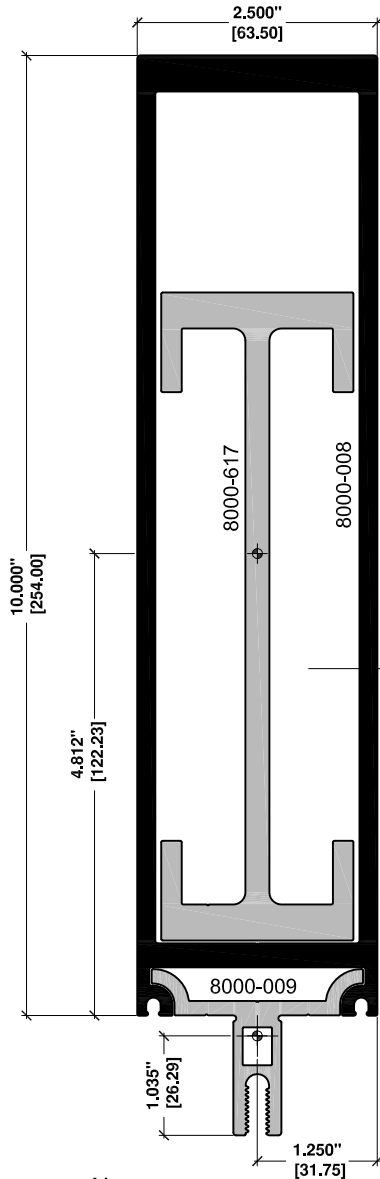
WIND LOAD



Note:
Secure the neck to the mullion
using two rows of # 12 screws
spaced at 12" O.C., one row on
each side of the neck.
Countersink the heads of
screws.

8000-008 REINFORCED MULLION

10" x 2 1/2" (254mm x 63.5mm)



Note:
 Secure the neck to the mullion using two rows of # 12 screws spaced at 12" O.C., one row on each side of the neck. Countersink the heads of screws.

8000-008

$$A = 5.082 \text{ IN}^2$$

$$I_x = 59.775 \text{ IN}^4$$

$$S_x = 11.314 \text{ IN}^3$$

8000-617

$$A = 3.5651 \text{ IN}^2$$

$$I_x = 23.791 \text{ IN}^4$$

$$S_x = 7.051 \text{ IN}^3$$

Total Properties

$$A = 8.647 \text{ IN}^2$$

$$I_x = 83.566 \text{ IN}^4$$

$$S_x = 18.365 \text{ IN}^3$$

$$A = 20 \text{ psf (0.95 KPa)}$$

$$B = 25 \text{ psf (1.2 KPa)}$$

$$C = 30 \text{ psf (1.4 KPa)}$$

$$D = 35 \text{ psf (1.7 KPa)}$$

$$E = 40 \text{ psf (1.9 KPa)}$$

$$F = 45 \text{ psf (2.1 KPa)}$$

$$G = 50 \text{ psf (2.4 KPa)}$$

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 Not for design.

Meters Feet

WIND LOAD
