

TECHNICAL DATA

DESCRIPTION:

THERMALLY BROKEN WALL SYSTEM 2" WIDE, GLASS IS SEALED ON BOTH EXTERIOR AND INTERIOR SURFACE. MULLION SECTION COMES IN 4" (101.6mm) DEPTH.

FINISH:

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

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

ASSEMBLY:

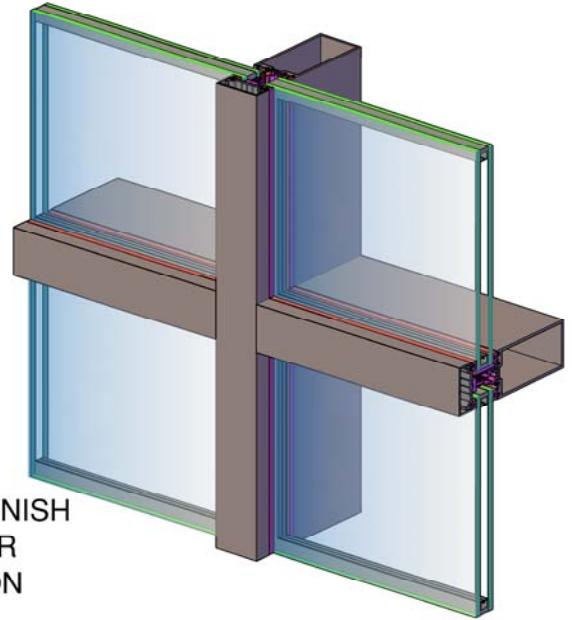
DESIGNED FOR SHEAR BLOCK ASSEMBLY

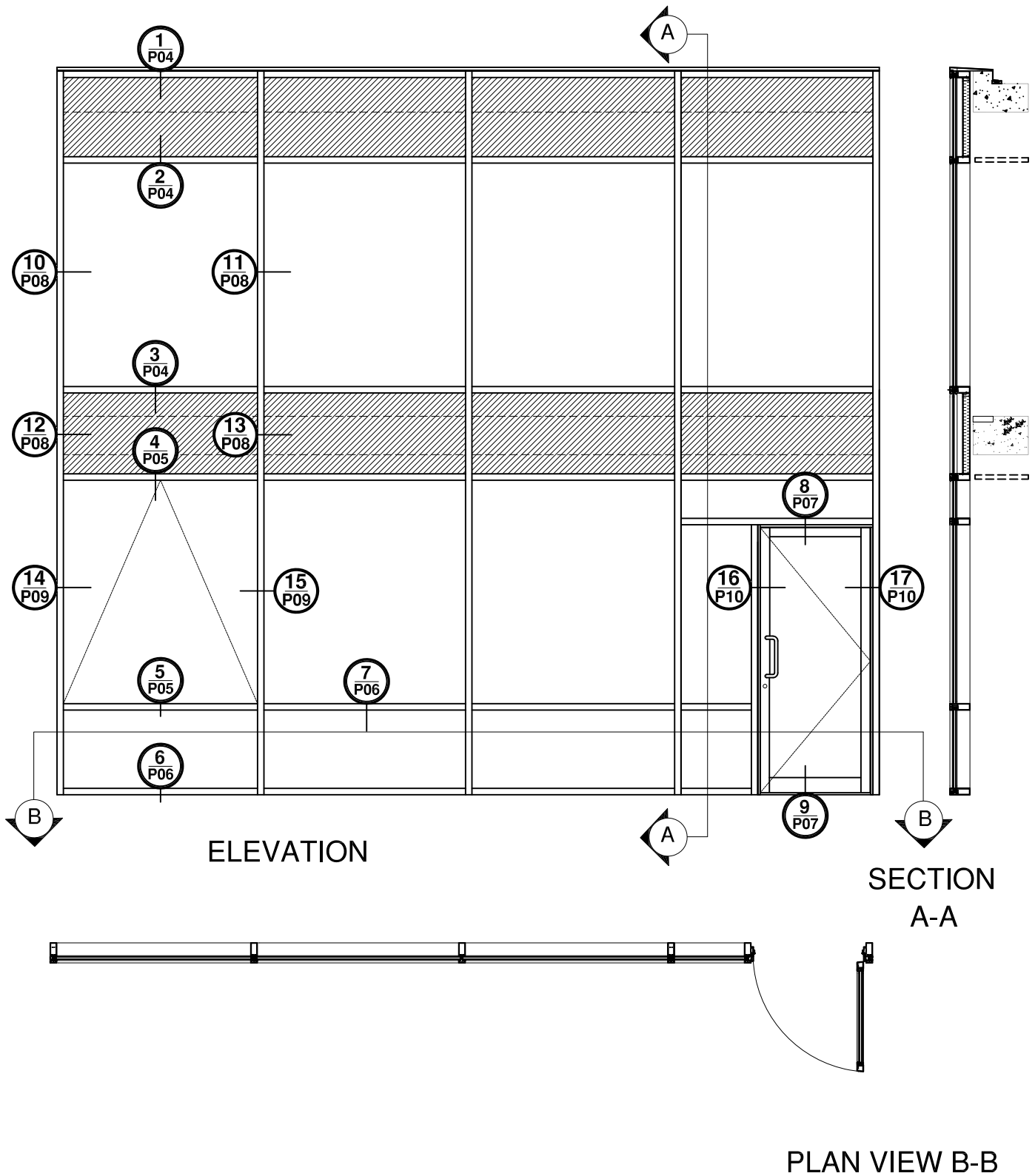
STRENGTH:

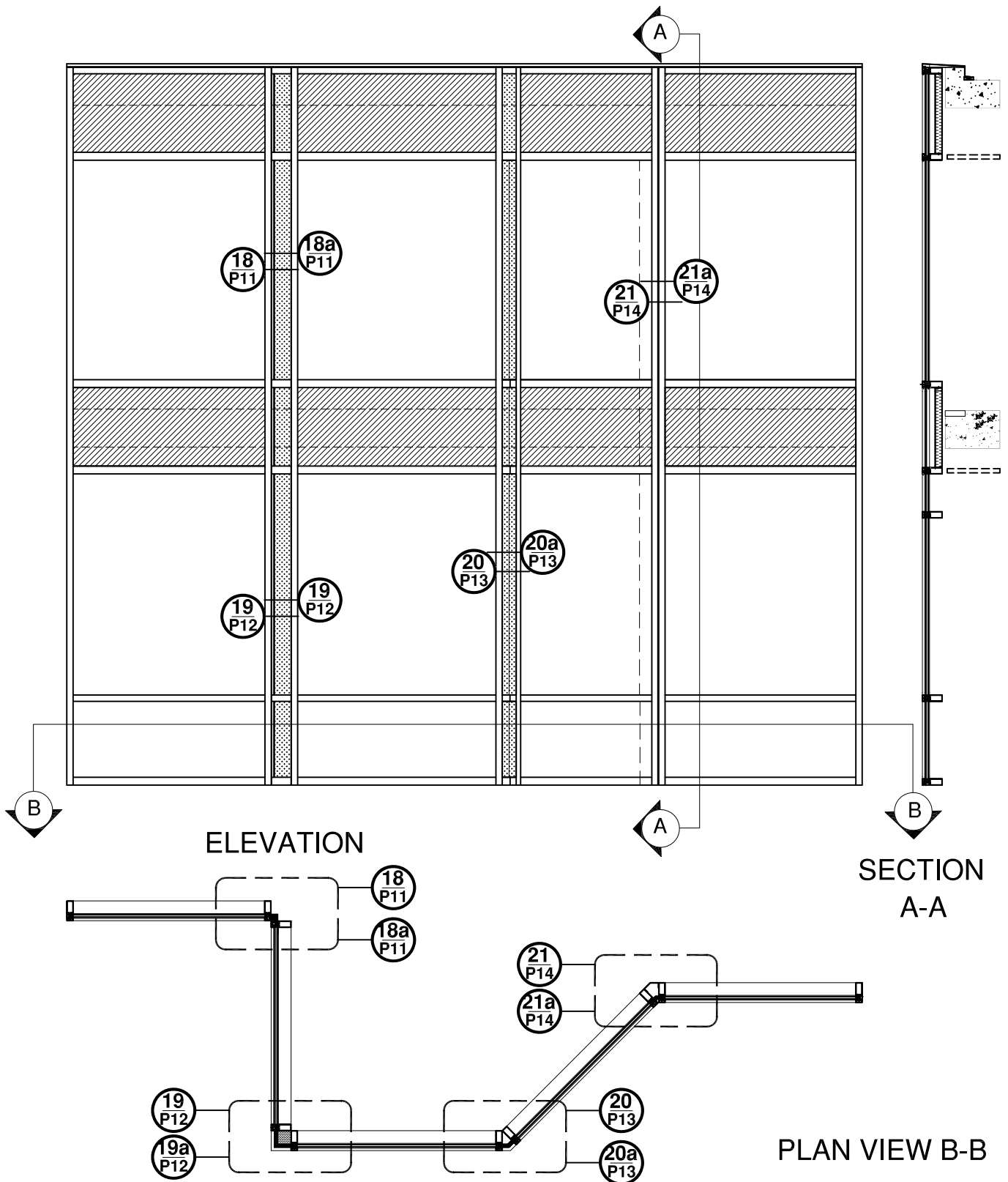
REFER TO WIND LOAD CHARTS FOR MAXIMUM ALLOWABLE SPAN, CONSULT STRUCTURAL ENGINEERING FOR FINAL DESIGN

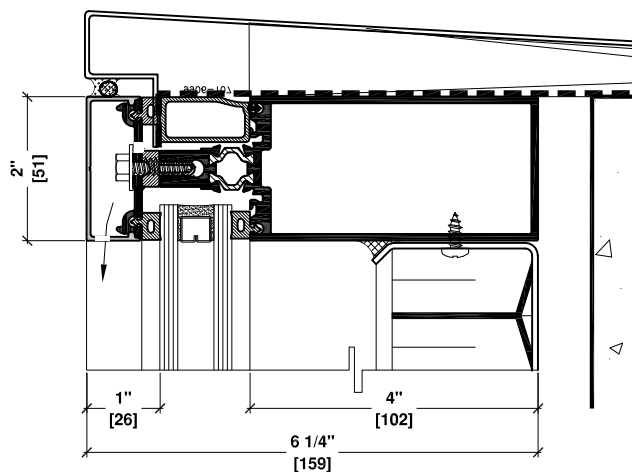
GLAZING:

5200 SERIES IS AN EXTERIOR GLAZED SYSTEM WHICH WILL ACCEPT 1/4" (6mm), AND 1" (25mm) SEALED UNIT.

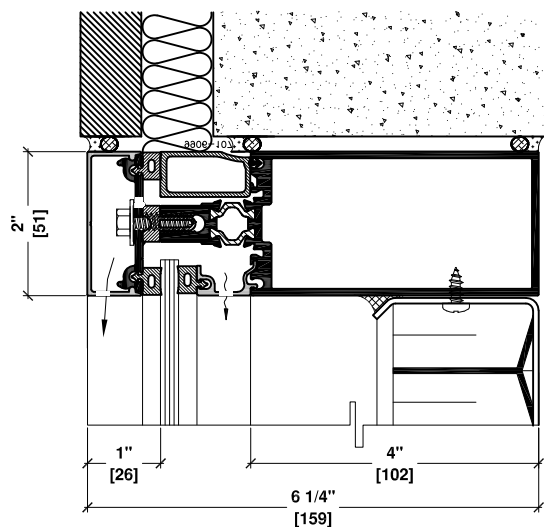




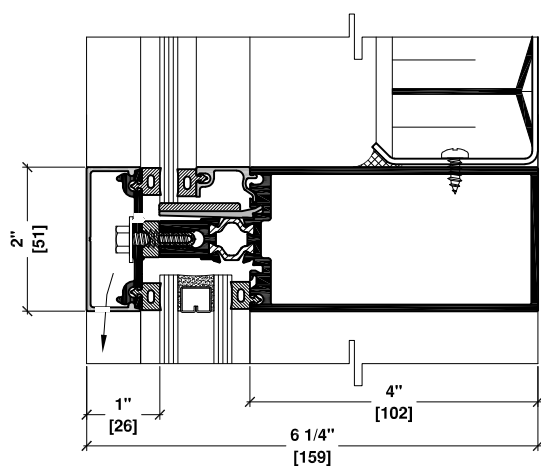




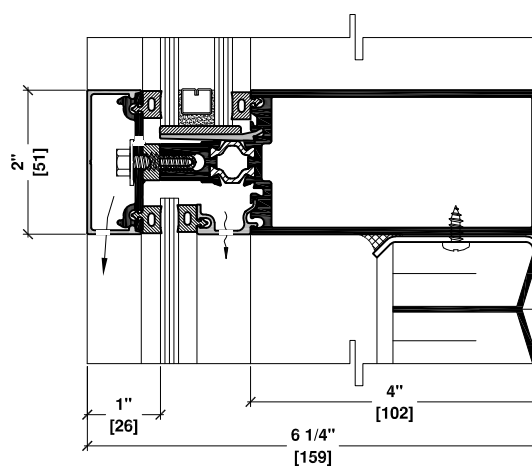
1 4" HORIZONTAL TUBE
SPANDREL
PARAPET WALL CONDITION



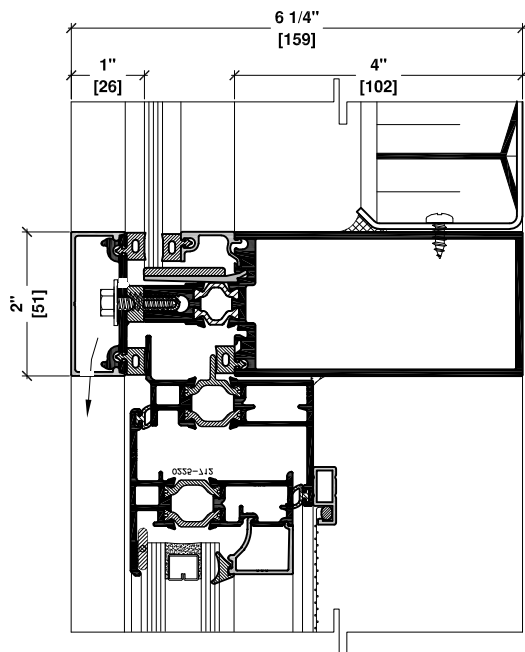
1a 4" HORIZONTAL TUBE
SPANDREL
SLAB CONDITION



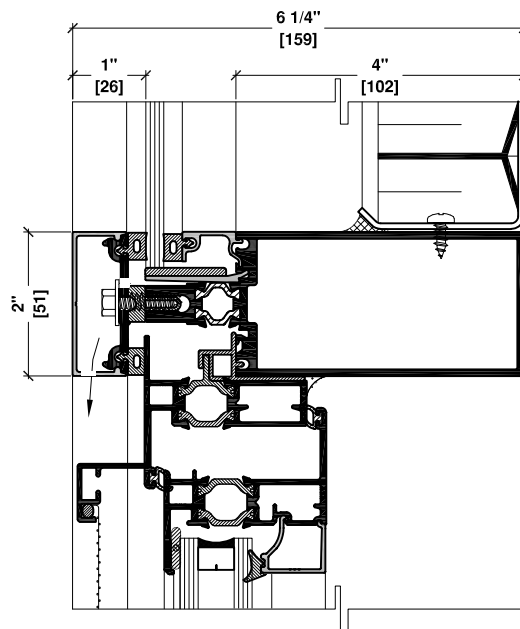
2 4" HORIZONTAL TUBE
SPANDREL / FIXED GLASS



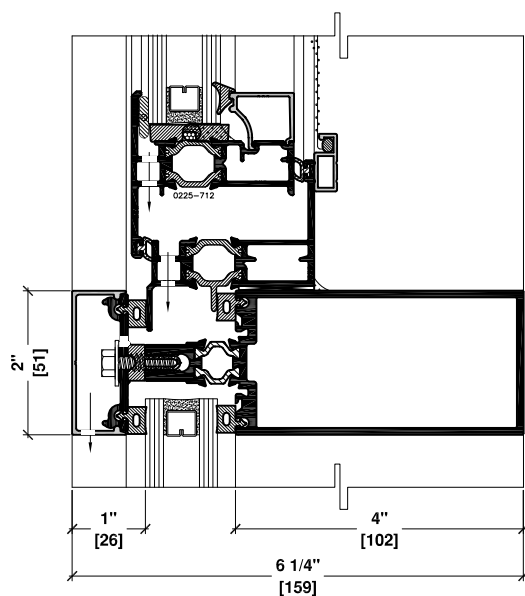
3 4" HORIZONTAL TUBE
FIXED GLASS / SPANDREL



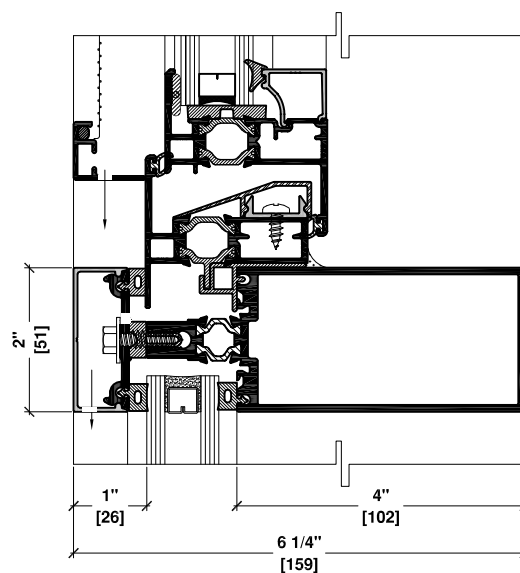
4 4" HORIZONTAL TUBE
SPANDREL / VENT OPEN OUT



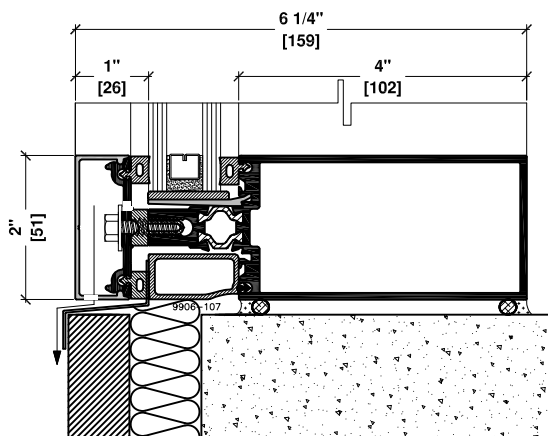
4a 4" HORIZONTAL TUBE
SPANDREL / VENT OPEN IN



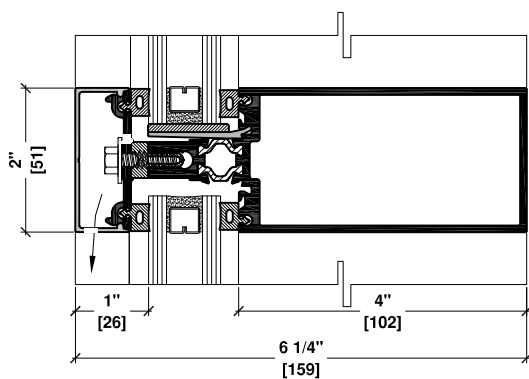
5 4" HORIZONTAL TUBE
VENT OPEN OUT / FIXED GLASS



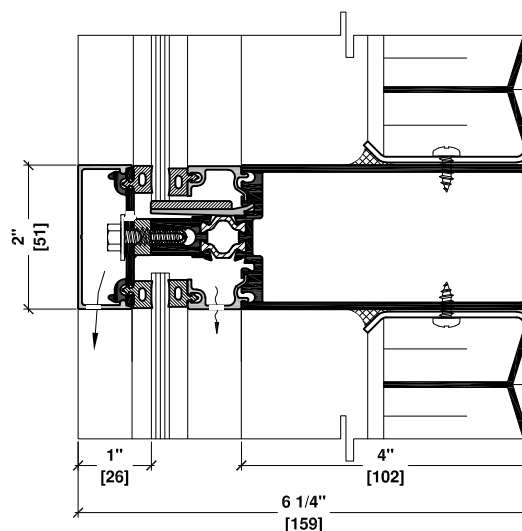
5a 4" HORIZONTAL TUBE
VENT OPEN IN / FIXED GLASS



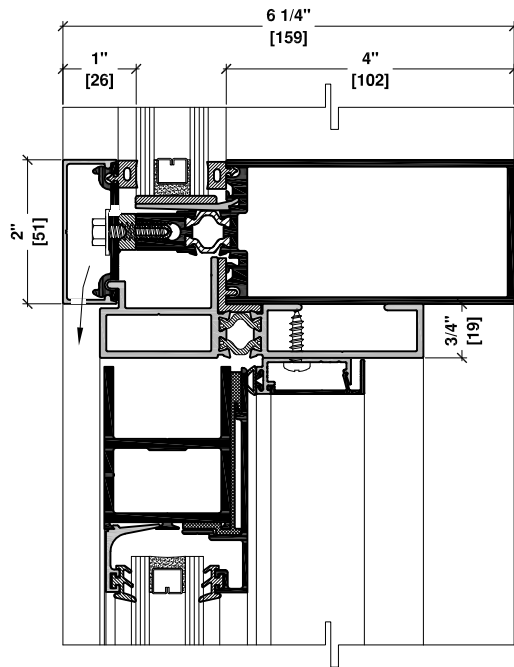
6 4" HORIZONTAL TUBE
FIXED GLASS
SILL CONDITION



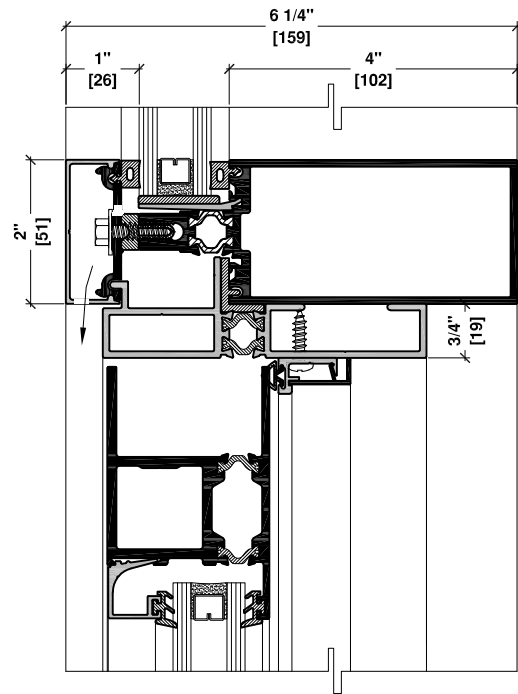
7 4" HORIZONTAL TUBE
FIXED GLASS / FIXED GLASS
WET GLAZED



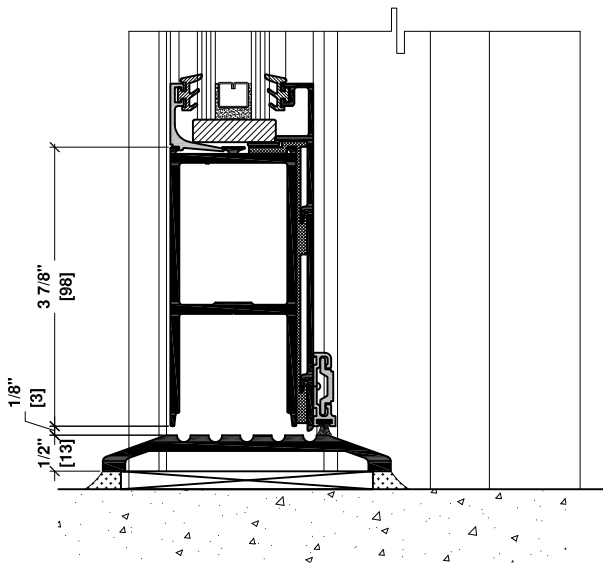
7a 4" HORIZONTAL TUBE
SPANDREL / SPANDREL
WET GLAZED



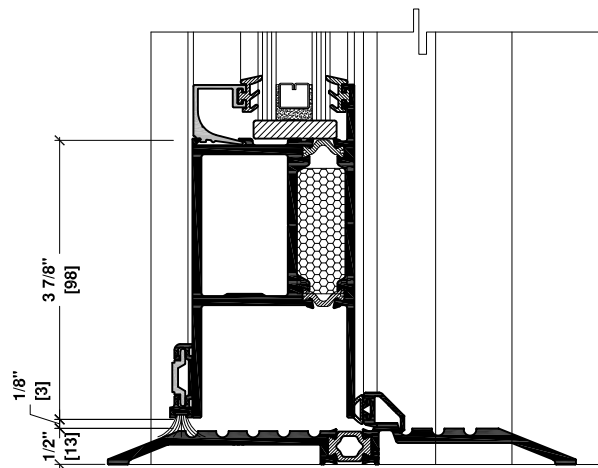
8 4" HORIZONTAL TUBE
SEIRES 260 DOOR
HEADER CONDITION



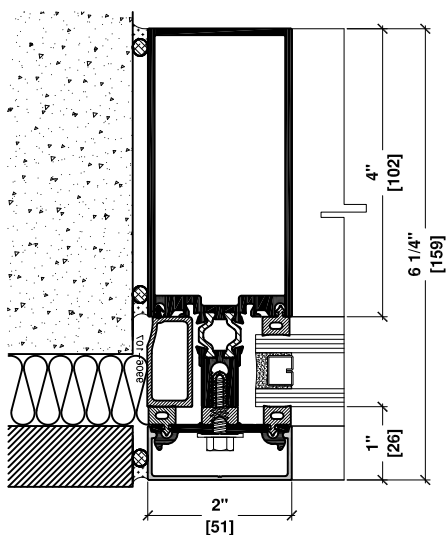
8a 4" HORIZONTAL TUBE
SERIES 4200 DOOR
HEADER CONDITION



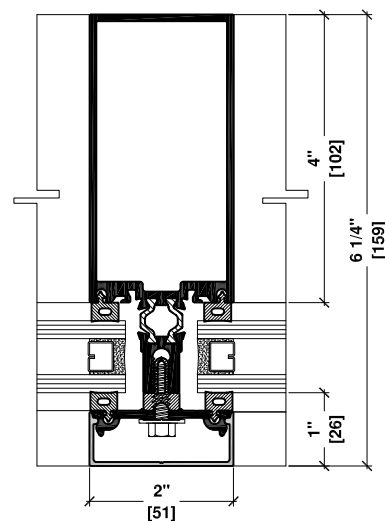
9 260 SERIES DOOR
SILL CONDITION



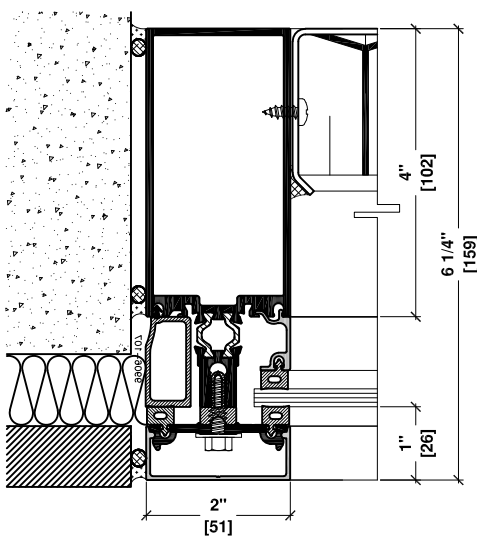
9a 4200 SERIES DOOR
SILL CONDITION



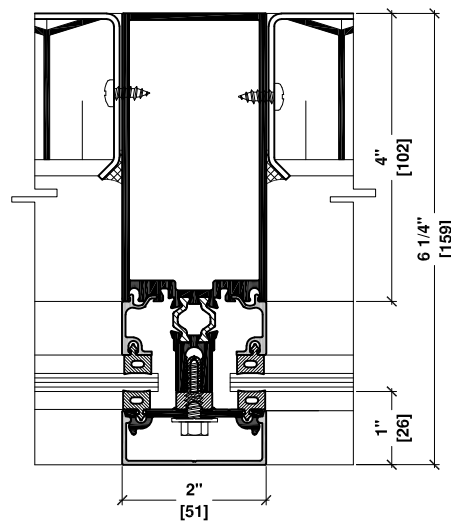
10 4" VERTICAL TUBE
FIXED GLASS
JAMB CONDITION



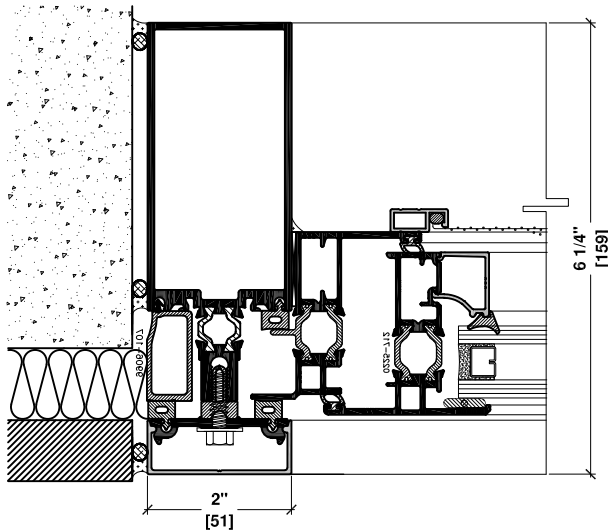
11 4" VERTICAL TUBE
FIXED GLASS - FIXED GLASS



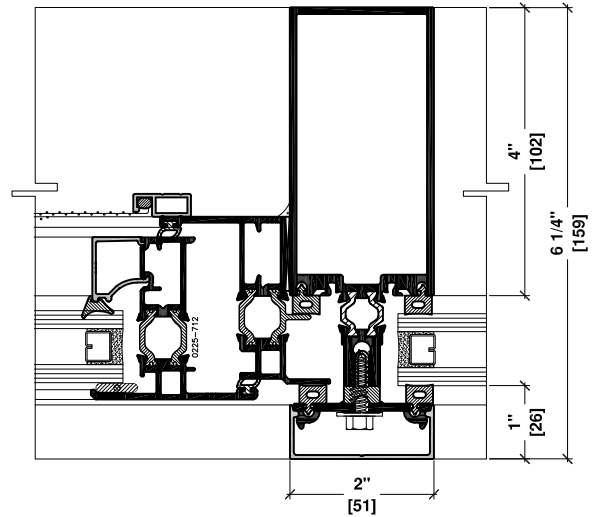
12 4" HORIZONTAL TUBE
SPANDREL
JAMB CONDITION



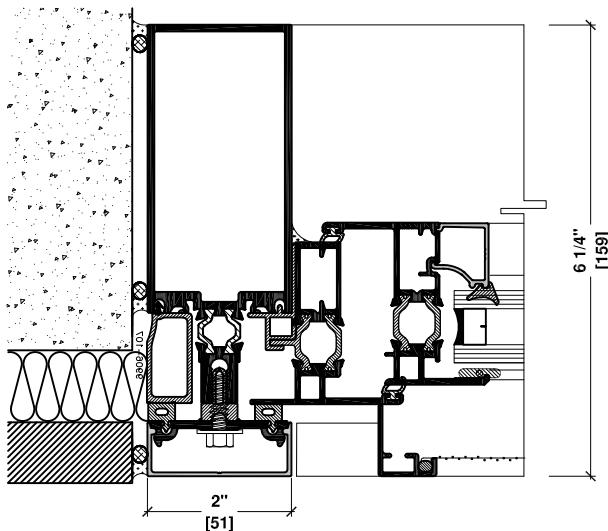
13 4" VERTICAL TUBE
SPANDREL - SPANDREL



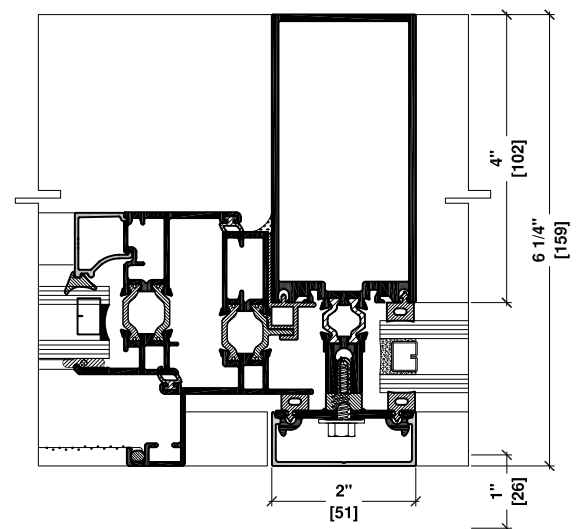
14 4" VERTICAL TUBE
JAMB - VENT OPEN OUT
DRY GLAZED



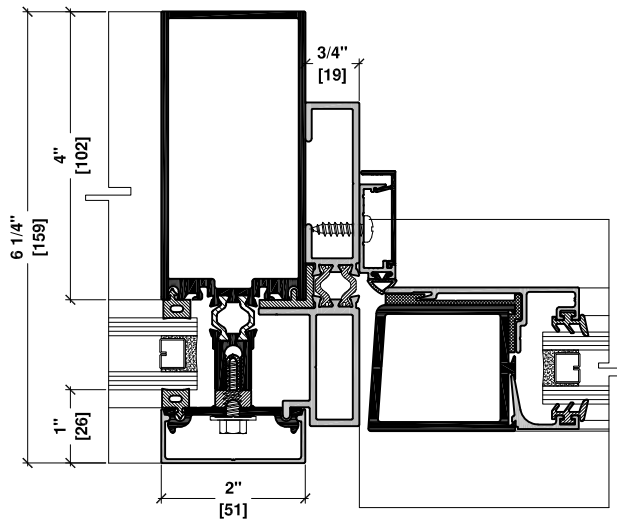
15 4" VERTICAL TUBE
VENT OPEN OUT - FIXED GLASS
DRY GLAZED



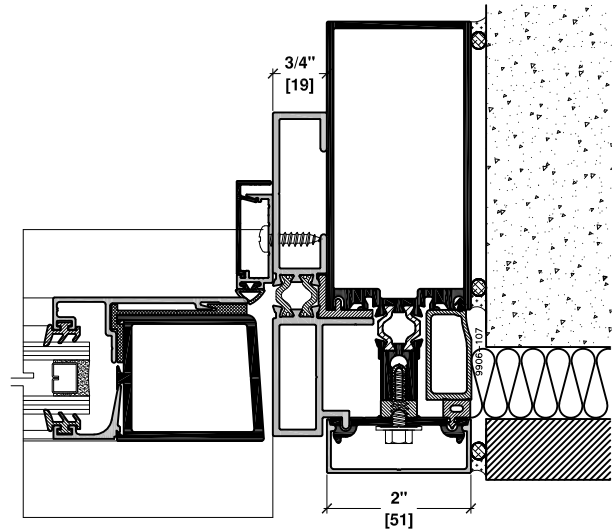
14a 4" VERTICAL TUBE
JAMB - VENT OPEN IN
DRY GLAZED



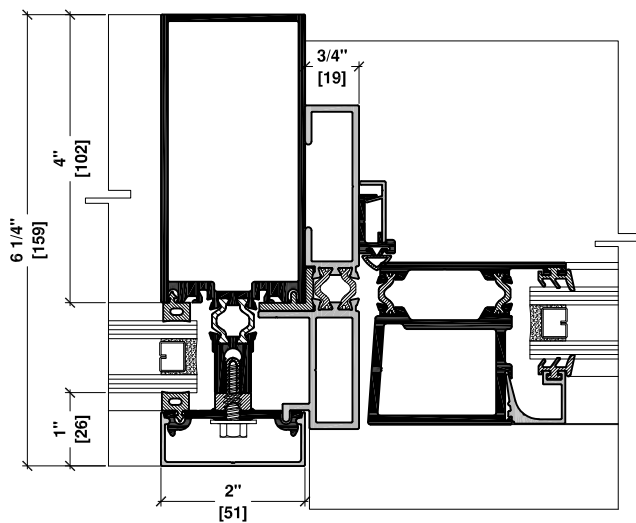
15a 4" VERTICAL TUBE
VENT OPEN IN - FIXED GLASS
DRY GLAZED



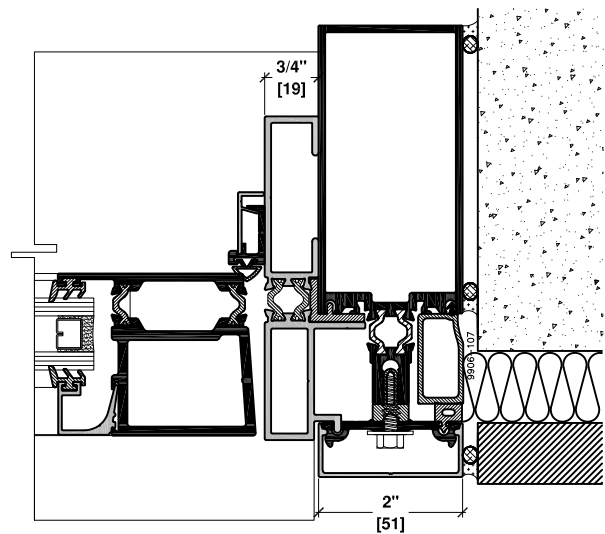
16 4" VERTICAL TUBE
SERIES 260 DOOR
DRY GLAZED



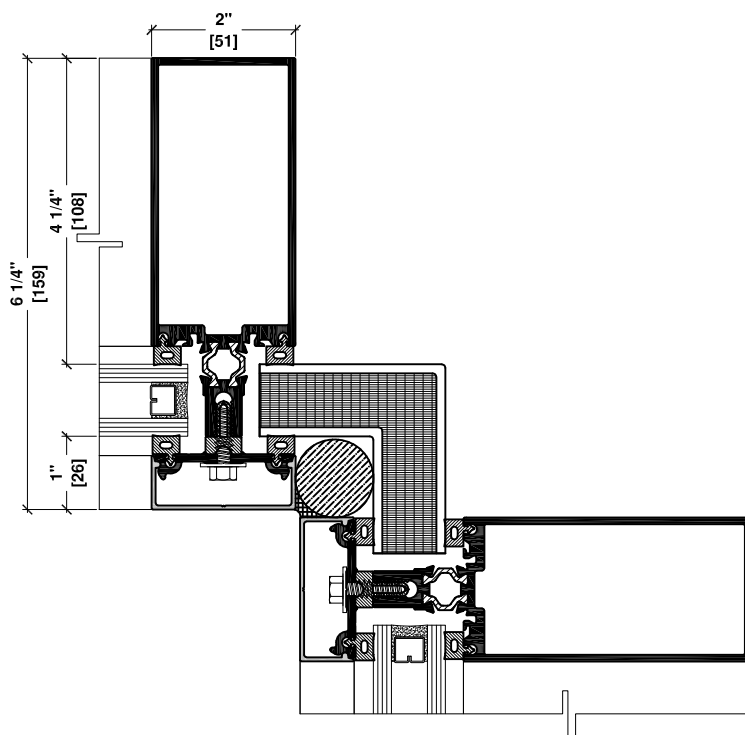
17 4" VERTICAL TUBE
SERIES 260 DOOR
DRY GLAZED



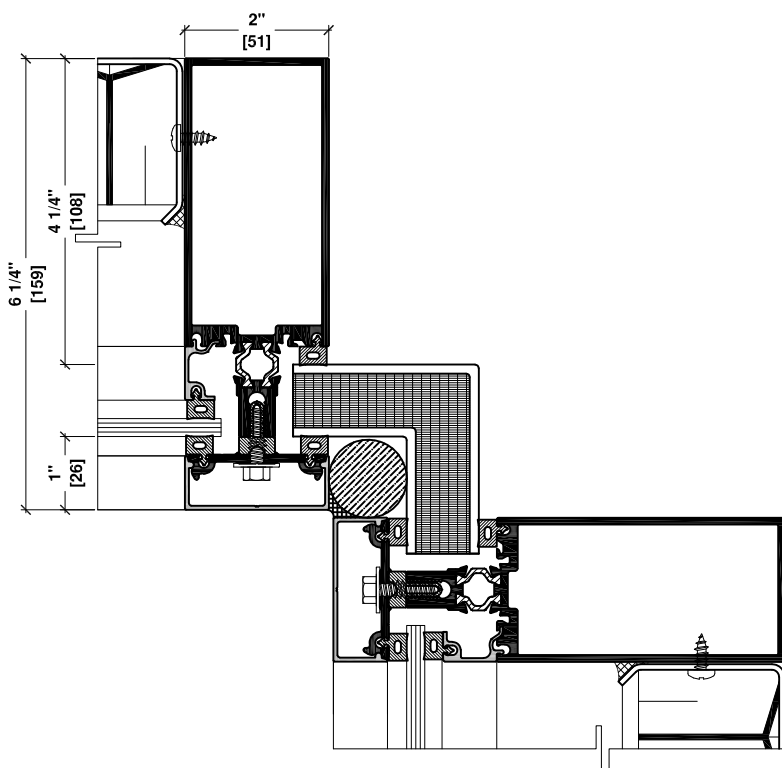
16a 4" VERTICAL TUBE
SERIES 4200 DOOR
DRY GLAZED



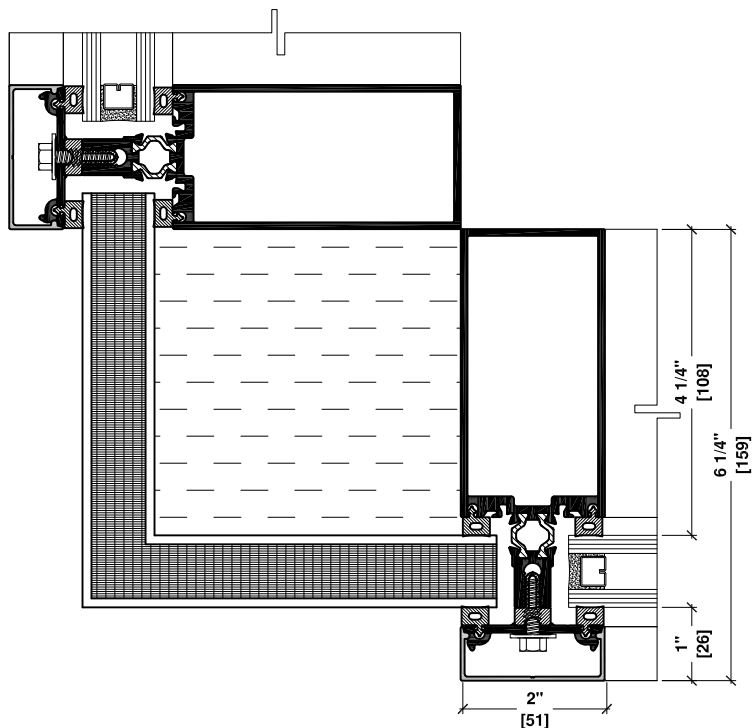
17a 4" VERTICAL TUBE
SERIES 4200 DOOR
DRY GLAZED



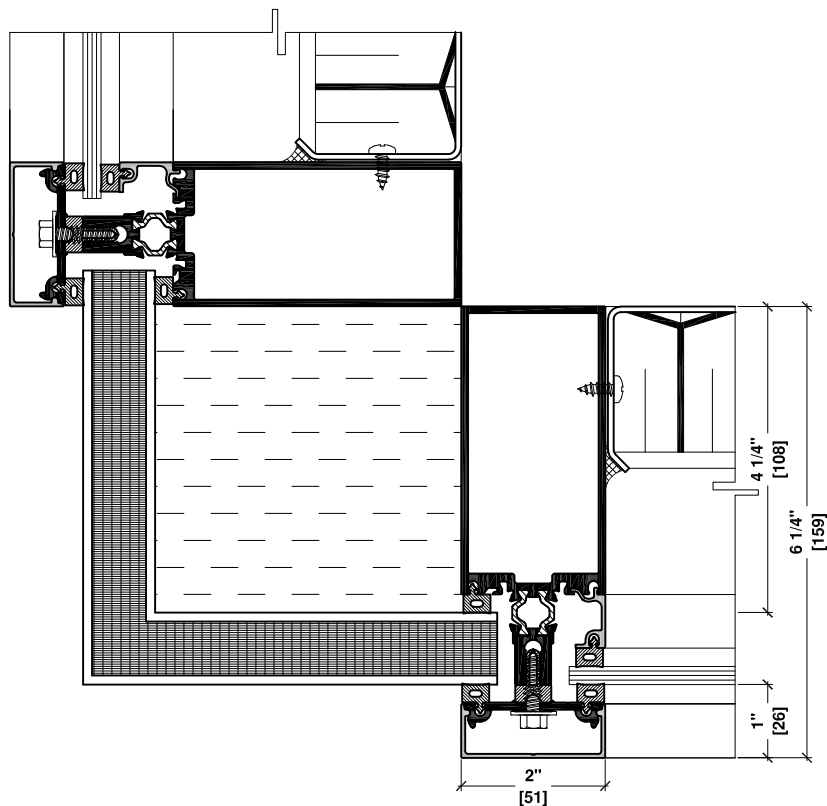
18 4" HORIZONTAL TUBE
FIXED GLASS
90° INSIDE CORNER



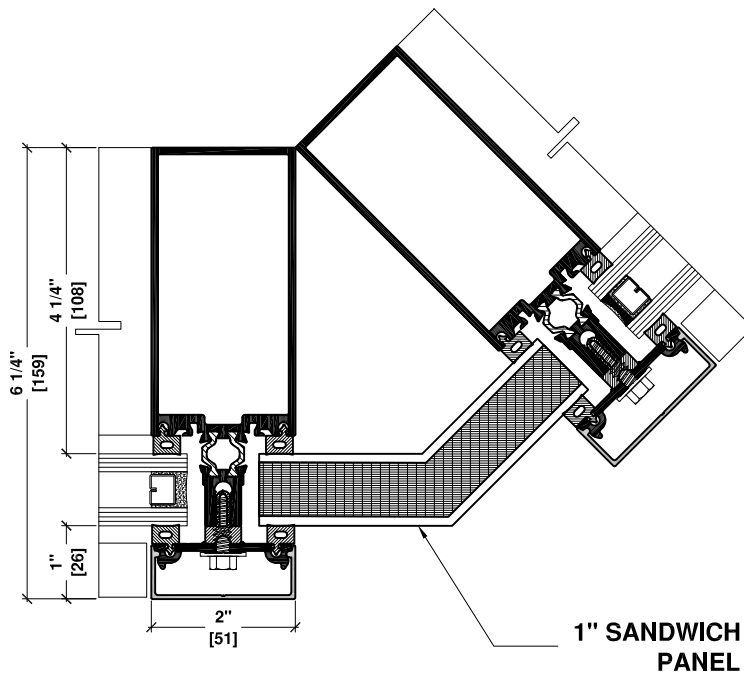
18a 4" HORIZONTAL TUBE
SPANDREL
90° OUTSIDE CORNER



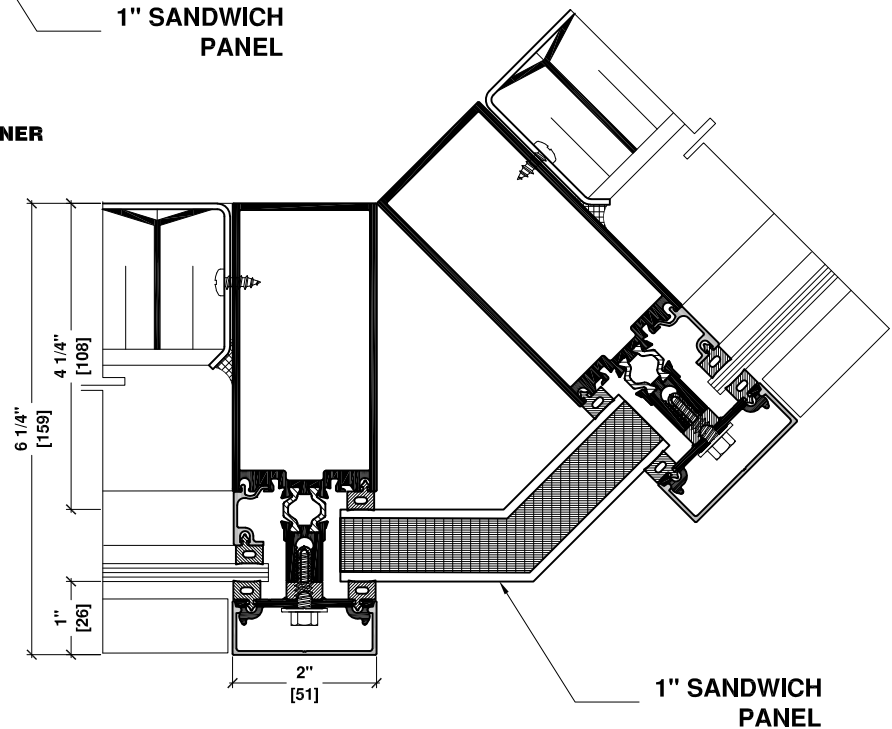
19 4" HORIZONTAL TUBE
FIXED GLASS
90° OUTSIDE CORNER



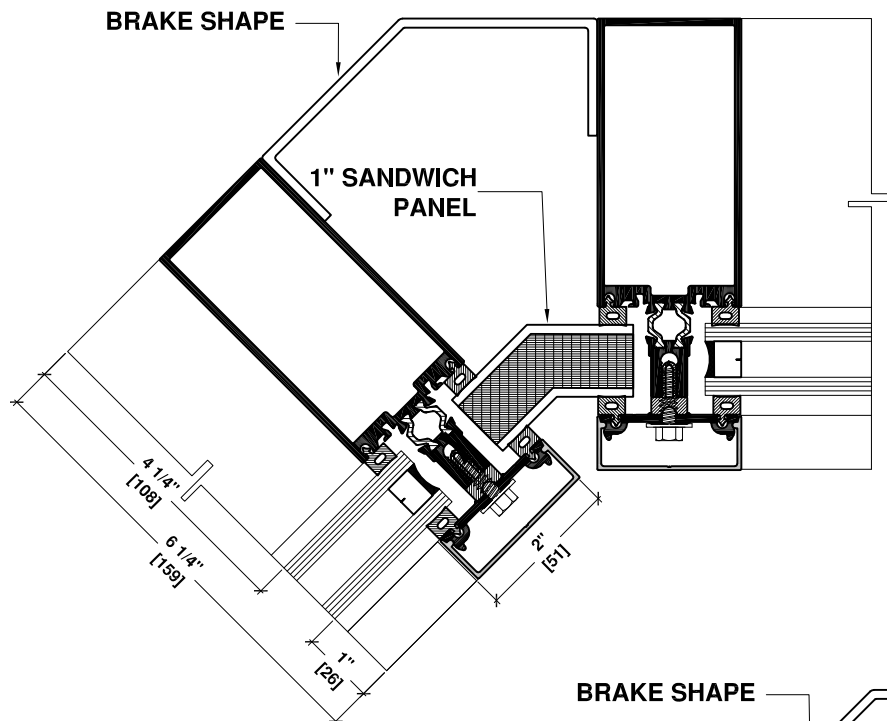
19a 4" HORIZONTAL TUBE
SPANDREL
90° OUTSIDE CORNER



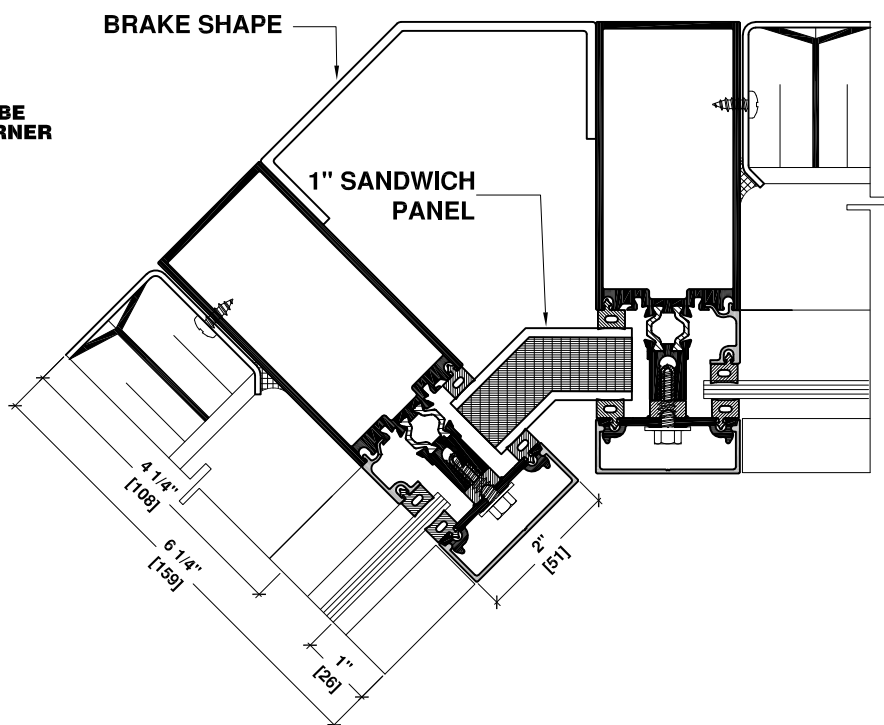
20 4" VERTICAL TUBE
135° OUTSIDE CORNER
FIXED GLASS



20a 4" VERTICAL TUBE
135° OUTSIDE CORNER
SPANDREL

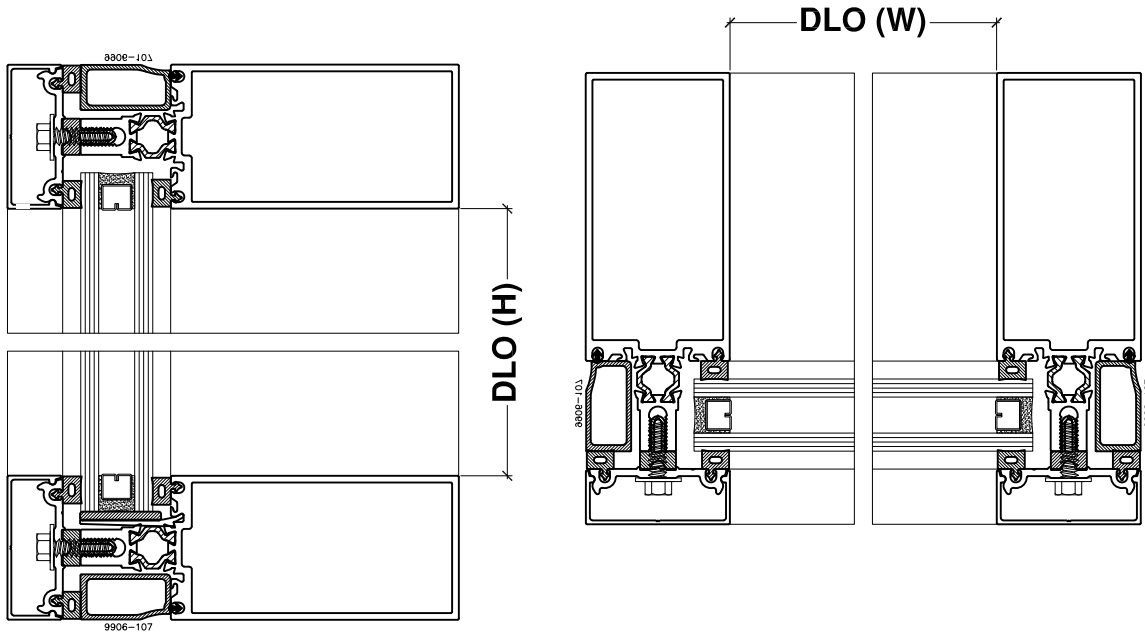


21 4" VERTICAL TUBE
135° INSIDE CORNER
FIXED GLASS



21a 4" VERTICAL TUBE
135° INSIDE CORNER
SPANDREL

GLASS CALCULATION



1/4" (6mm)

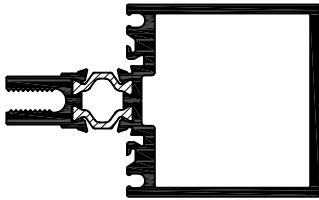
1/2" (12mm)

1" (25.4mm)

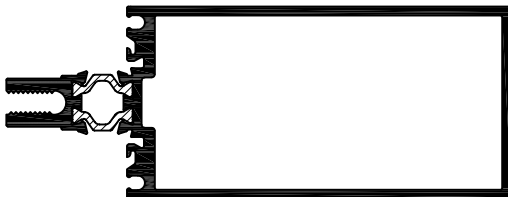
Glass (W)= DLO(W) + 1"(25.4mm)

Glass (H)=DLO(H) + 1"(25.4mm)

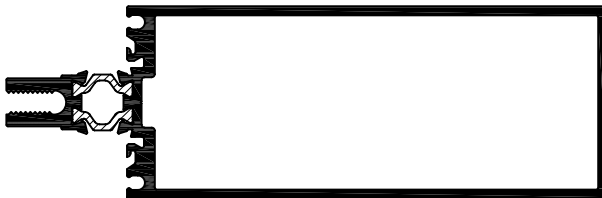
Note: use the appropriate spline



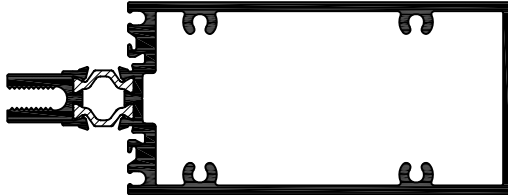
PART #: 5200-701
2" (50.8mm)
MULLION 2 " X 2"
(50.8mm)X(50.8mm)



PART #: 5200-703
4" (101.6mm)
MULLION 2 " X 4"
(50.8mm)X(101.6mm)



PART #: 5200-704
5" (127mm)
MULLION 2 " X 5"
(50.8mm)X(127mm)



PART #: 5200-753
4" (101.6mm)
HORIZONTAL MULLION 2 " X 4"
(50.8mm)X(101.6mm)



PART #: 5200-080
ADAPTOR SINGLE
GLAZED 1/4" (6.35mm)

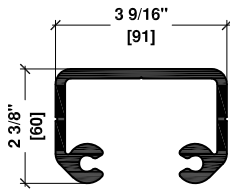


PART #: 5000-131
PRESSURE PLATE (PUNCHED)
FOR DRY GLAZING

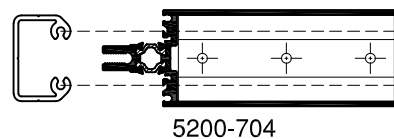
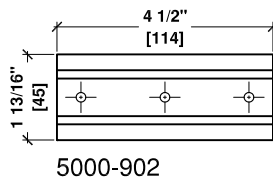
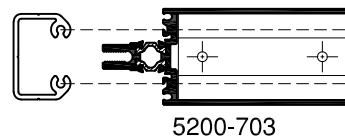
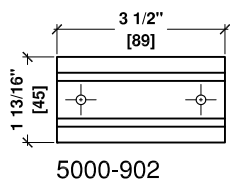
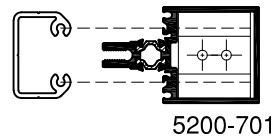
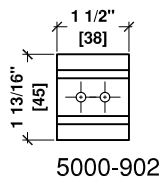
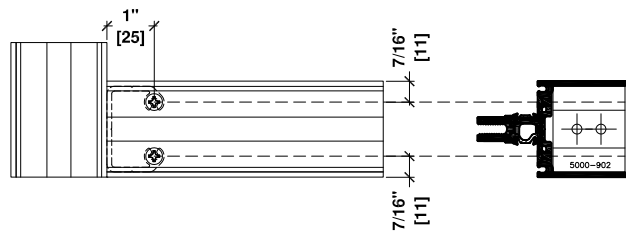


PART #: 5000-130
SNAP ON CAP
3/4" (19mm)

SERIES 5200 CAPTURED BLOCK
PART #: 5000-902 FOR 2" MULLION
PART #: 5000-904 FOR 4" MULLION
PART #: 5000-905 FOR 5" MULLION

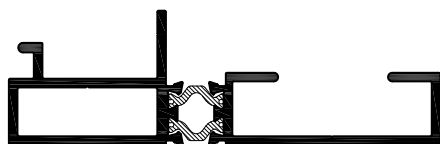


SHEAR BLOCK LOCATION





PART #: 5200-920
S/U HORIZONTAL
GLASS HOLDER
@ 5"




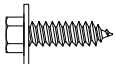


PART #: 8000-701
DOOR ADAPTOR
USE 9906-401 PVC
DOOR ADAPTOR

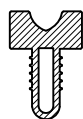


PART #: 8000-075
DOOR STOP BASE



PART #: 8000-076
DOOR STOP COVER

	DESCRIPTION	APPLICATION	QTY/JOINT
	PART #: 9902-503 # 10 X 1" PH SCREW	FASTEN SHEAR BLOCK TO VERTICAL	2-3
	PART #: 9902-005 # 1/4"-20 X 7/8" HEX WASHER MACHINE	FASTEN PRESSURE PLATE TO MULLION	@6" C/C
	PART #: 9902-102 # 6 X 1" FH SCREW	FASTEN SINGLE GLAZED ADAPTOR	2@24" C/C
	PART #: 9902-514 # 10-1 1/2" FH SCREW	FASTEN HORIZONTAL TO SHEAR BLOCK	2@ EACH END



PART #: 9903-005
1/4" THERMAL BREAK
BLACK

THERMAL BARRIER



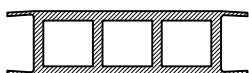
PART #: 9903-103
1/4" GLAZING
SPLINE

APPLY TO MULLION
AND DRY GLAZE
PRESSURE PLATE



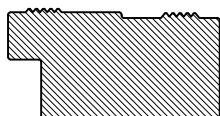
PART #: 9903-201
SETTING BLOCK

2 PER DLO



PART #: 9903-216
SPACER FOR SERIES
5200

FASTEN HORIZONTAL
TO SHEAR BLOCK



PART #: 9903-312
CORNER PLUG
FOR SEAL UNIT

APPLY ONE TO
EACH CORNER



PART #: 9906-107
POCKET FILLER

APPLY INTO THE OUTSIDE
POCKET OF EACH
PERIMETER

AWSF TEST RESULTS

TEST	RESULTS
Air Leakage Rate Test Pressure 6.27 psf	0.04 cfm/ft ²
Water Pressure Achieved	15.04 psf
Maximum Structural Pressure Achieved	Test Pressure of 90.23 psf

NFRC TEST RESULTS

ITEM	VALUE
Standardized U-Factor	0.31 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" x 4" Mullion

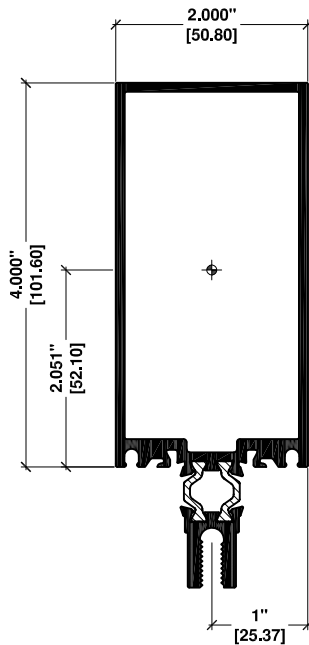
- a. Find the dead load chart for the horizontal mullion you are using for your wall.
- b. Locate span length point on the dead load chart.
- c. Draw vertical line from this point to meet the dead load curve
- d. Draw horizontal line from the meeting point to weight eg. (65lb/ft)axis
- e. This will determine the weight/ft this span can take
- f . Divide the weight (65lb/ft) by the selected glass weight, provided by the glass supplier eg. (6lb/ft), $(65lb/ft \div 6lb/ft)$
- g. The result will be (10'-10")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

5200-703 MULLION

4" x 2" (101.60mm x 50.80mm)



5200-703

$$A = 1.254 \text{ IN}^2$$

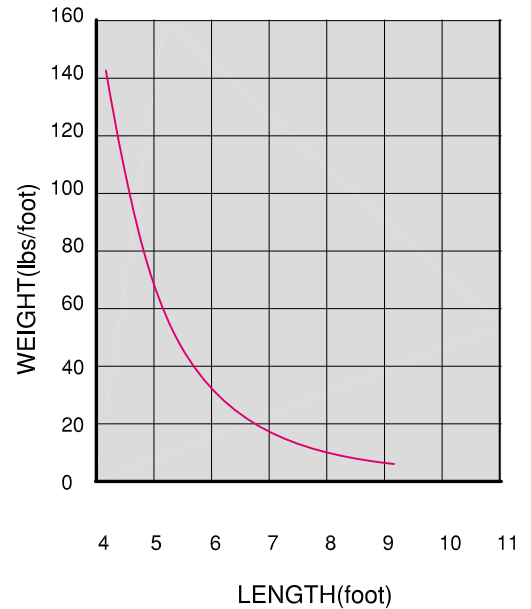
$$I_x = 4.118 \text{ IN}^4$$

$$S_x = 1.550 \text{ IN}^3$$

- 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

