

**Features**

- IR 521/IR 521T is 5" (127) deep and has a 2-1/2" (63.5) sightline  
{Expansion mullions have a 2-3/4" (69.9) sightline}
- Screw Spline fabrication
- IR 521T Single IsoLock® lanced pour and debridge thermal break
- Center glazed
- Outside or inside glazed
- Permanodic® anodized finishes option
- Painted finishes in standard and custom choices

**Optional Features**

- Integrated entrance framing  
Note: Entrance framing is undergoing certified testing, expected 2025.
- 350/500 IR Entrances - single or pairs
- 350/500 Heavy Wall™ IR Entrances - single or pairs
- 350T/500T Insulpour® thermal entrances - single or pairs
- Flushline® Entrances - single or pairs
- Strap anchor at head and jamb

**Product Applications**

- Impact resistant
- Blast mitigation
- Storefront, ribbon window or punched opening
- Low to mid-rise
- Single span
- GLASSvent® UT Windows for Storefront Framing are easily incorporated

For specific product applications,  
consult your Kawneer representative.



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**FRAMING DETAILS - OUTSIDE GLAZED (WET) ..... 4-8**

**FRAMING DETAILS - OUSIDE GLAZED (DRY) ..... 9-13**

**FRAMING DETAILS - INSIDE GLAZED (WET) ..... 14-18**

**FRAMING DETAILS - INIDE GLAZED (DRY) ..... 19-23**

**ENTRANCE FRAMING DETAILS..... 24-25**

**WIND LOAD CHARTS ..... 26-42**

**DEADLOAD CHARTS ..... 43-48**

Metric (SI) conversion figures are included throughout these details for reference. Numbers in parentheses ( ) are millimeters unless otherwise noted.

The following metric (SI ) units are found in these details:

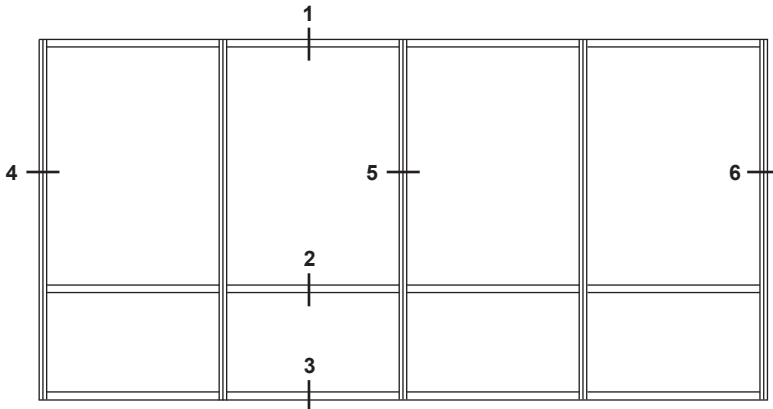
- m – meter
- cm – centimeter
- mm – millimeter
- s – second
- Pa – pascal
- MPa – megapascal

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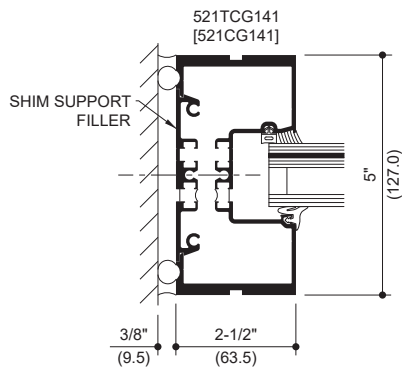
ELEVATION IS NUMBER KEYED TO DETAILS



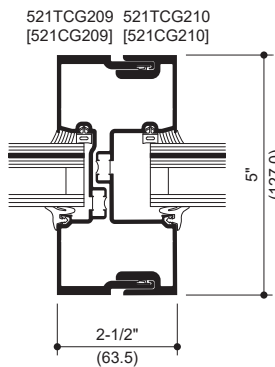
IR 521 IsoLock®  
NON-THERMAL



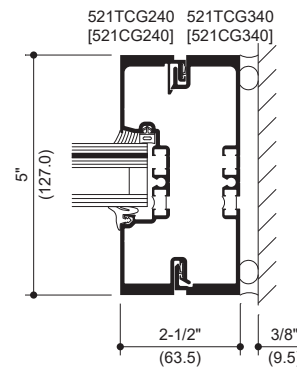
IR 521T Single IsoLock®  
THERMAL BREAK (SHOWN)



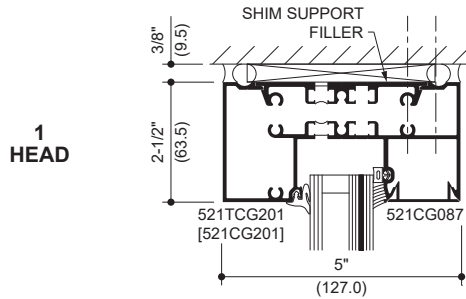
4  
FIRST BAY JAMB



5  
VERTICAL MULLION

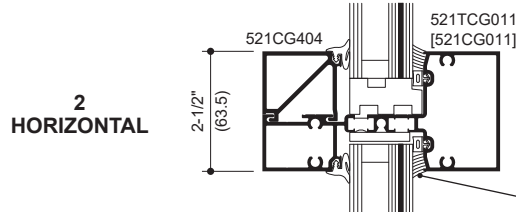


6  
LAST BAY JAMB

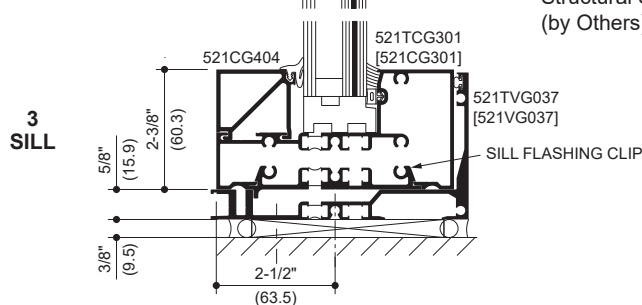


1  
HEAD

1-5/16" INFILL  
(PRE GLAZED - WET GLAZED)



2  
HORIZONTAL



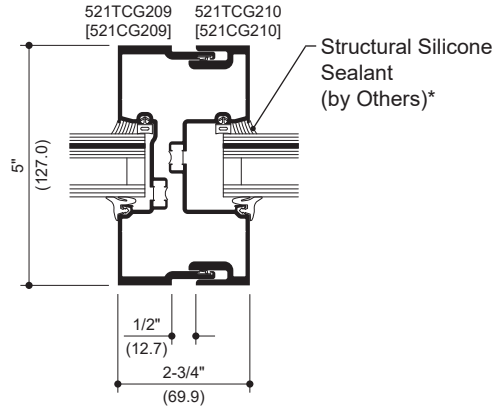
3  
SILL

Structural Silicone Sealant  
(by Others)\*

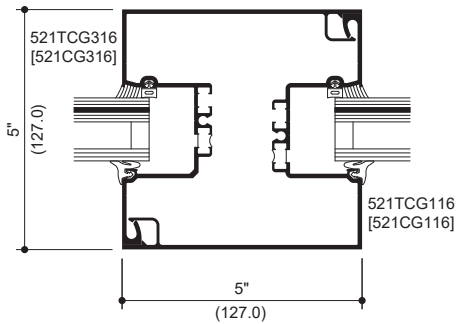
\* INSTALLER NOTE: Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

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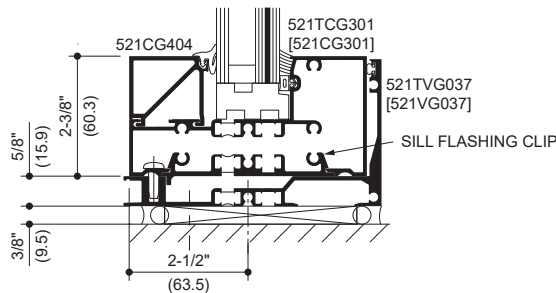
### 1-5/16" INFILL (PRE GLAZED - WET GLAZED)



**EXPANSION MULLION**



**5" x 5" MULLION**



**PINNED HORIZONTAL TO SILL FLASHING**

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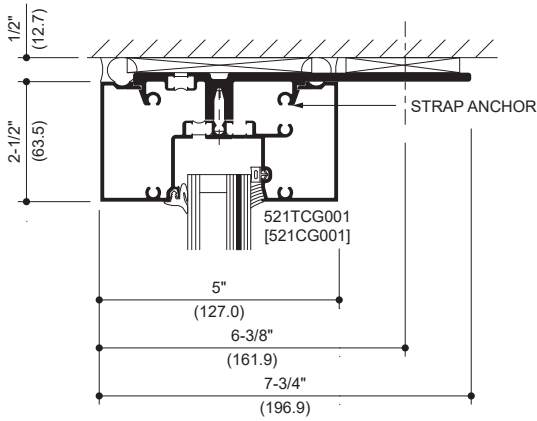
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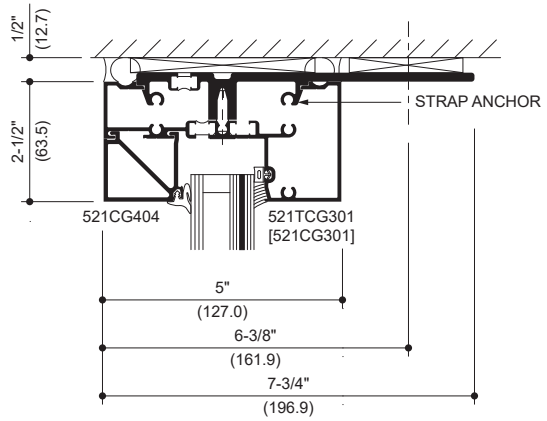


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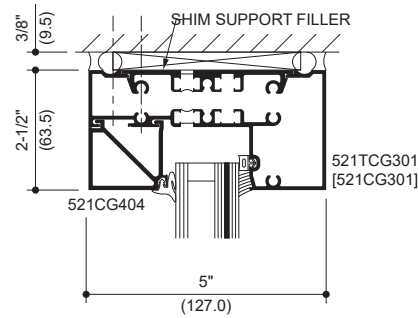
## 1-5/16" INFILL (PRE GLAZED - WET GLAZED)



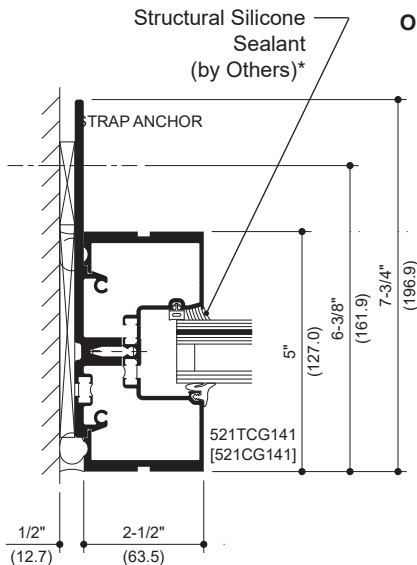
**HEAD**



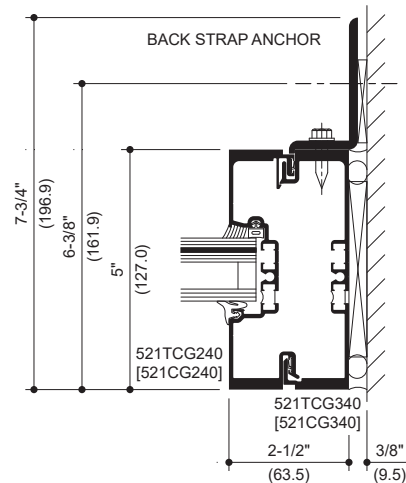
**OPTIONAL HEAD WITH STOP**



**OPTIONAL HEAD WITH STOP**



**FIRST BAY JAMB**



**LAST BAY JAMB**

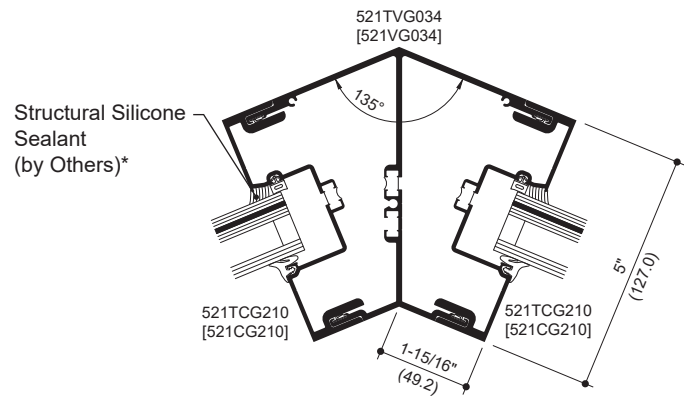
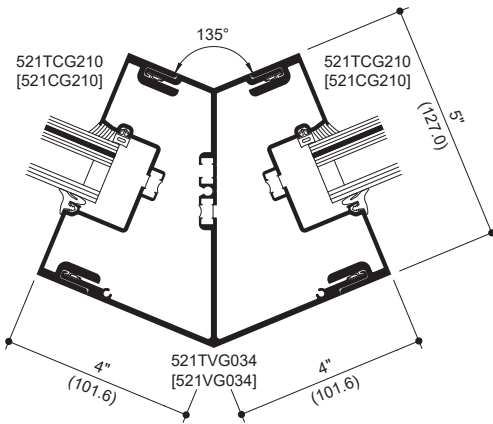
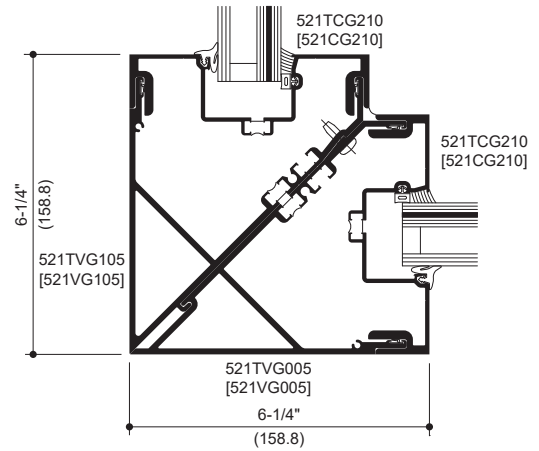
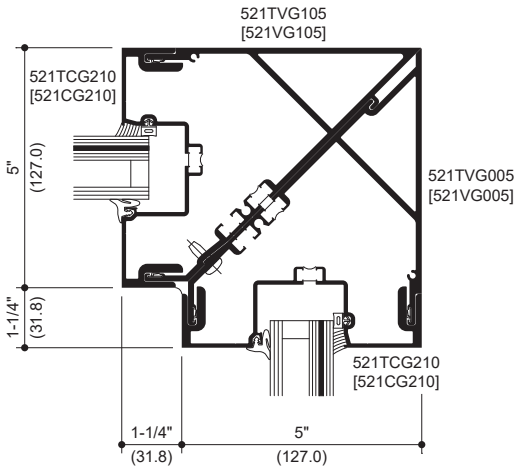
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### 1-5/16" INFILL (PRE GLAZED - WET GLAZED)



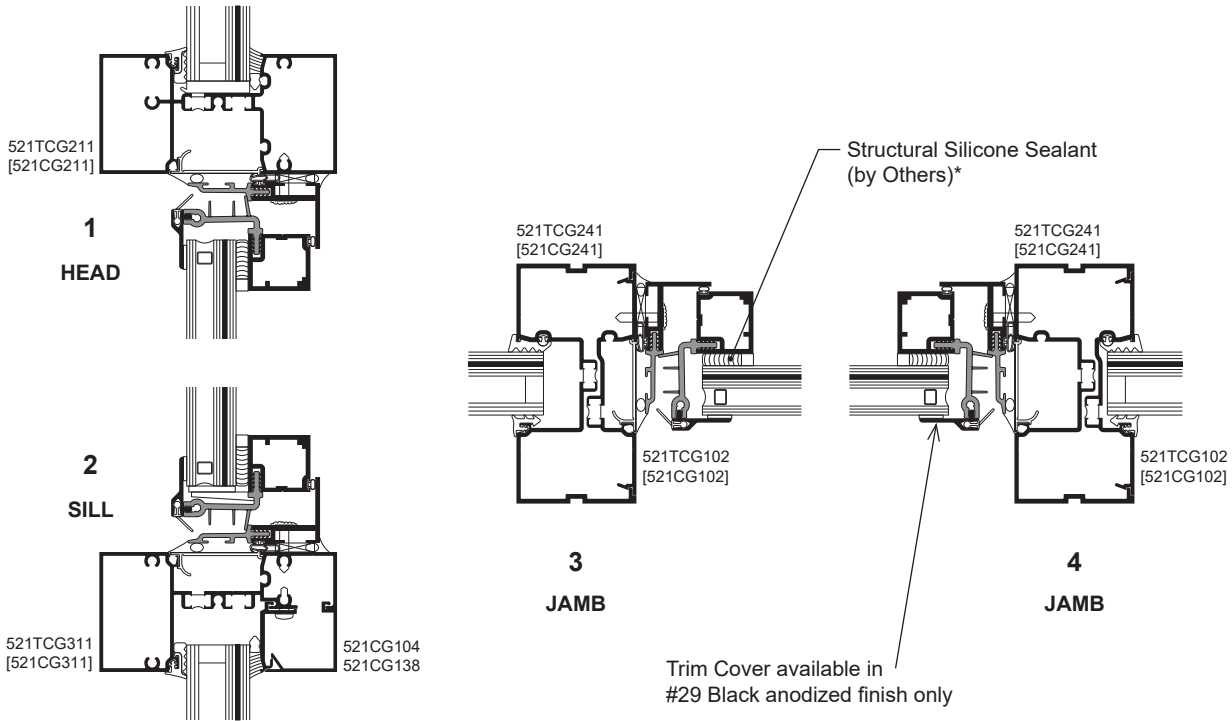
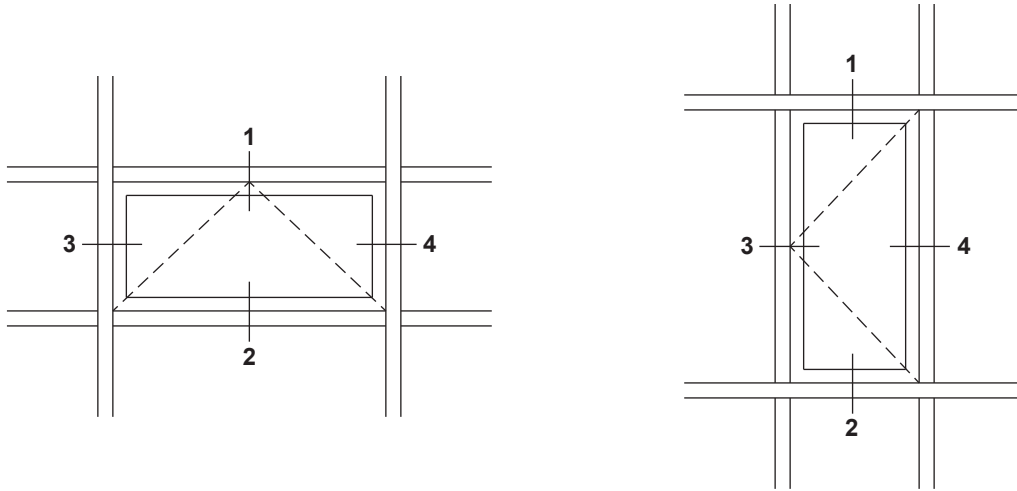
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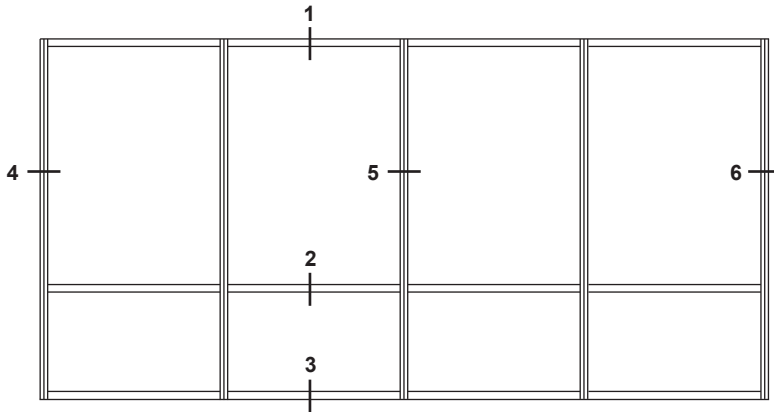
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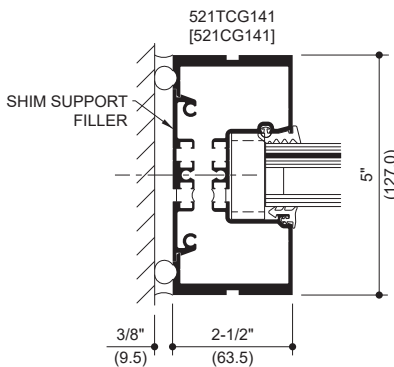
**ELEVATION IS NUMBER KEYED TO DETAILS**



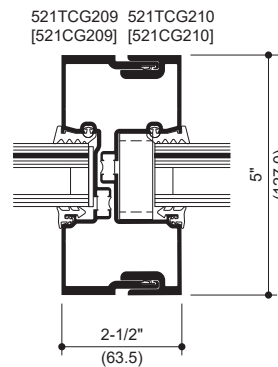
**IR 521 IsoLock®  
NON-THERMAL**



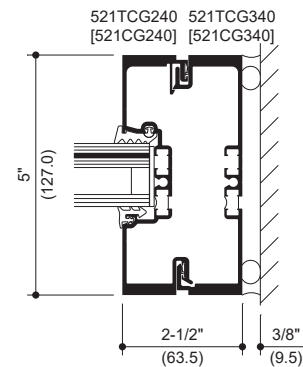
**IR 521T Single IsoLock®  
THERMAL BREAK (SHOWN)**



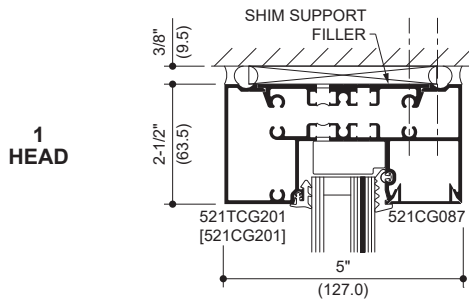
**4  
FIRST BAY JAMB**



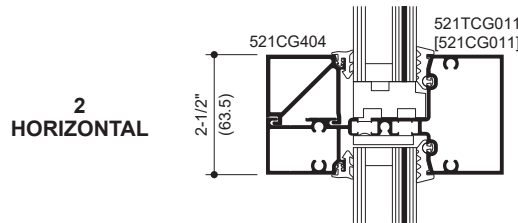
**5  
VERTICAL MULLION**



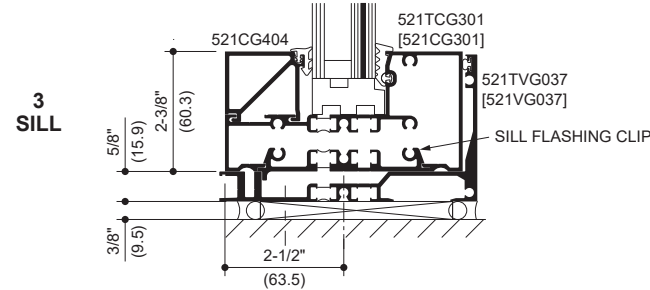
**6  
LAST BAY JAMB**



**1  
HEAD**



**2  
HORIZONTAL**



**3  
SILL**

**1-5/16" INFILL  
(PRE GLAZED - DRY GLAZED)**

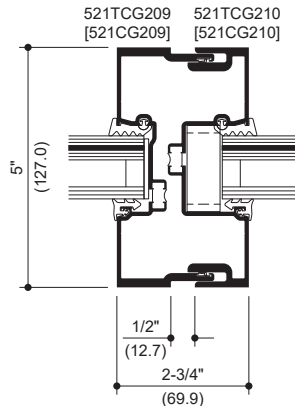
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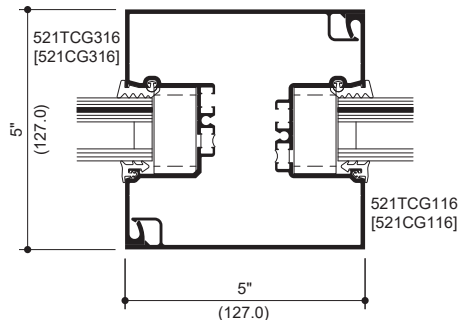


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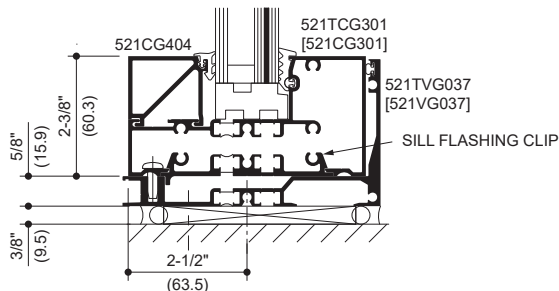
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



EXPANSION MULLION



5" x 5" MULLION



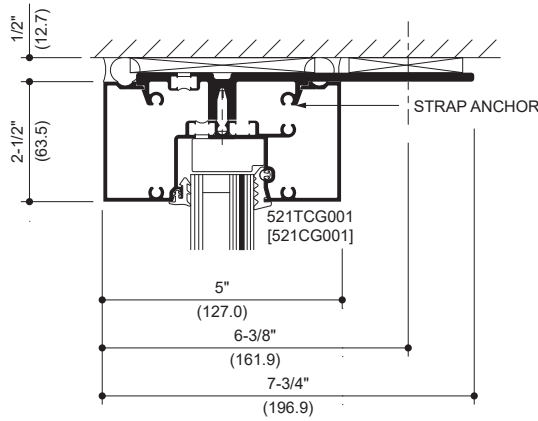
PINNED HORIZONTAL TO SILL FLASHING

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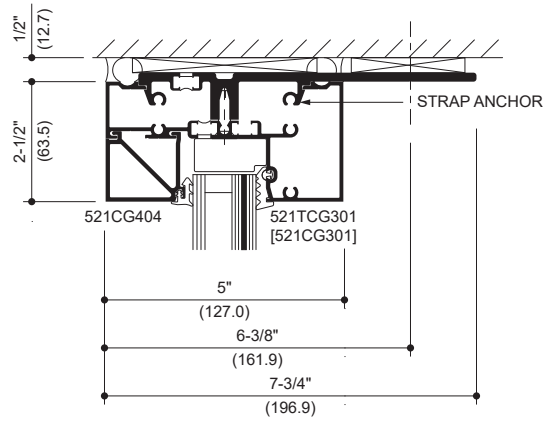
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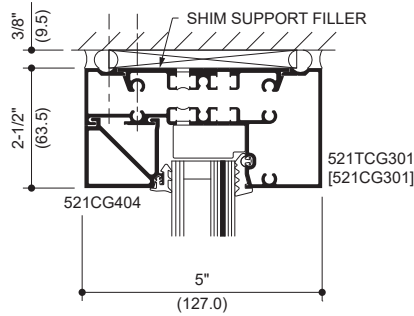
### 1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



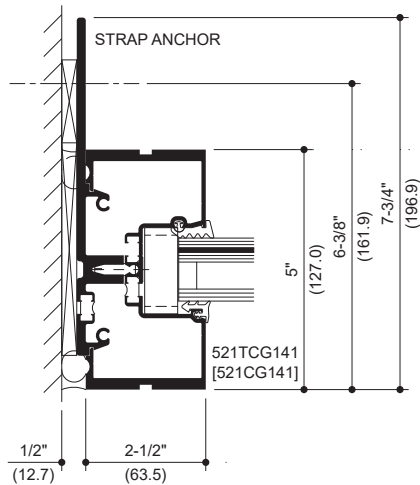
**HEAD**



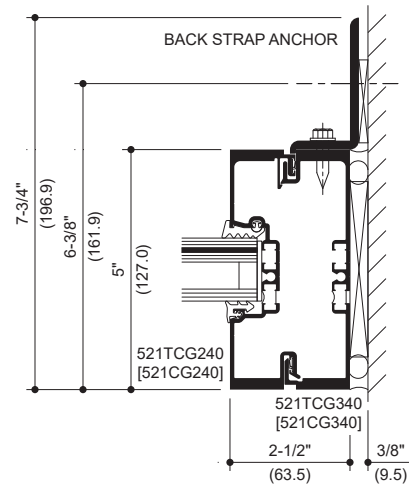
**OPTIONAL HEAD WITH STOP**



**OPTIONAL HEAD WITH STOP**



**FIRST BAY JAMB**



**LAST BAY JAMB**

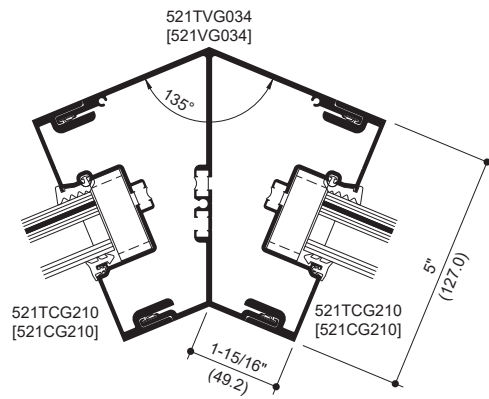
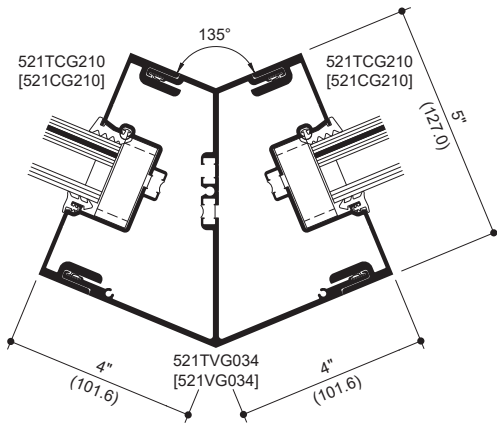
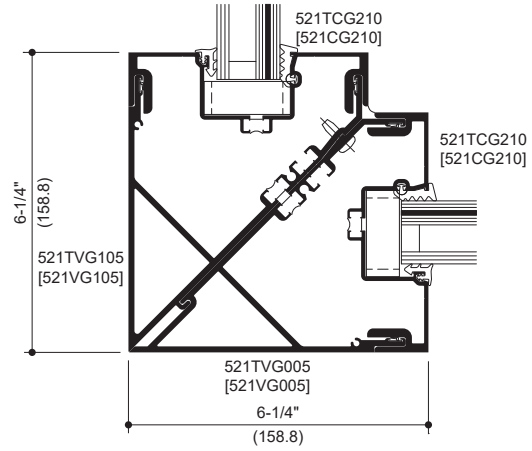
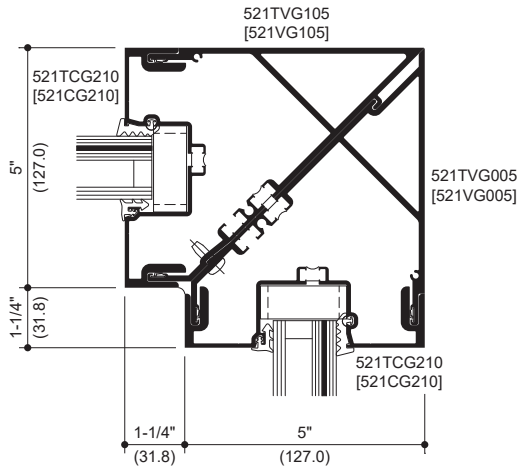
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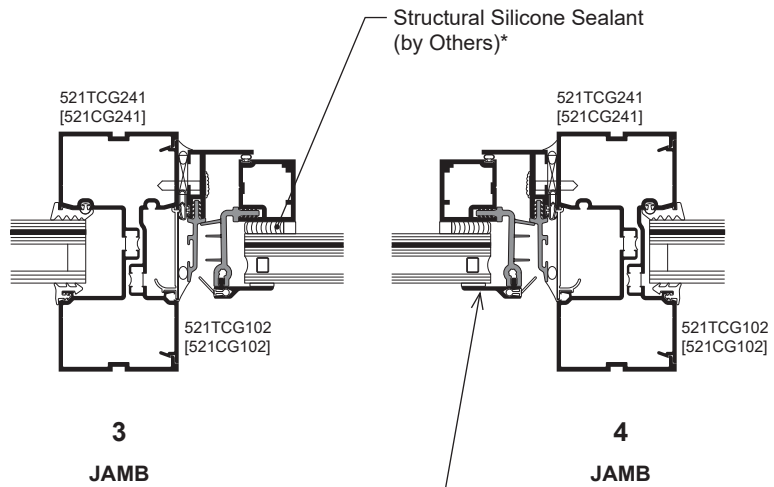
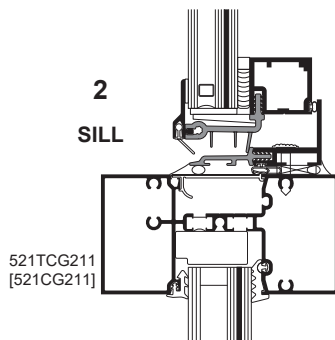
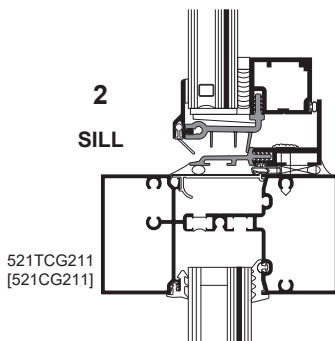
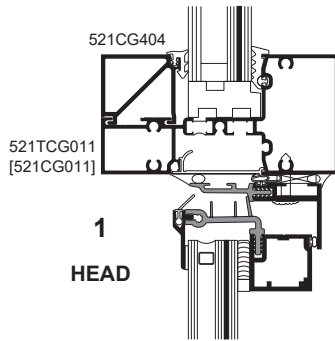
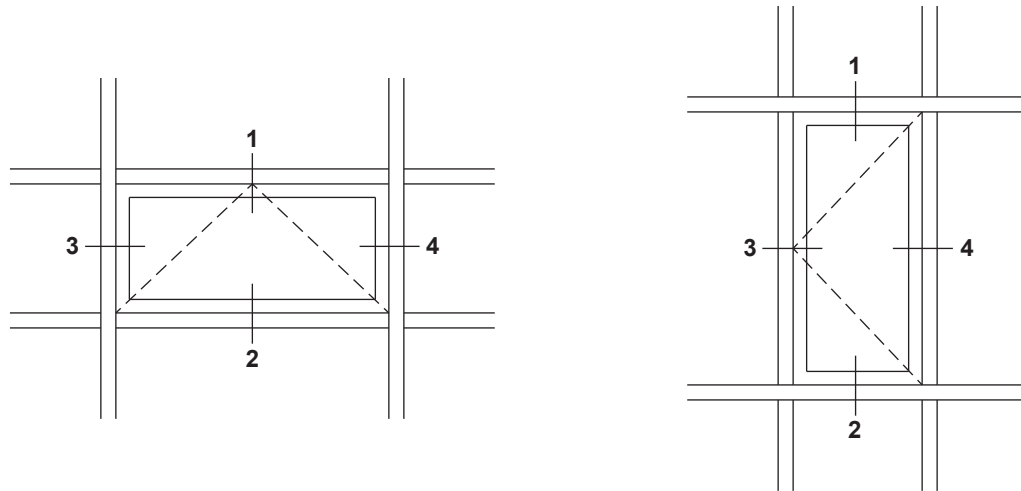
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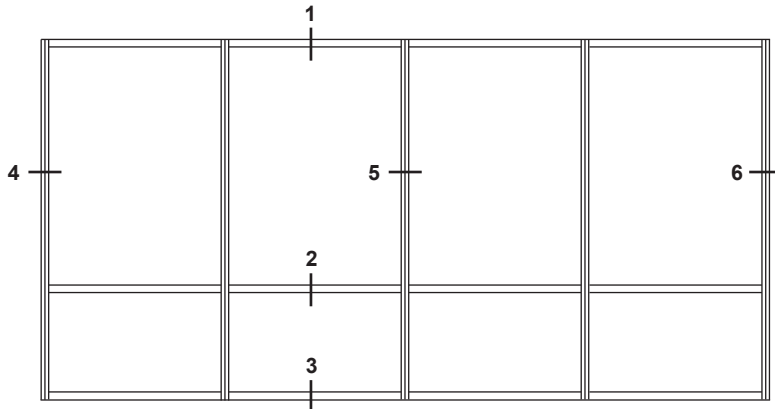
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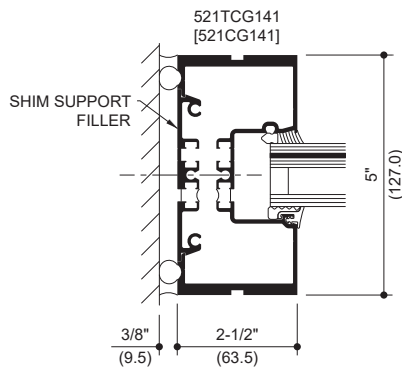
ELEVATION IS NUMBER KEYED TO DETAILS



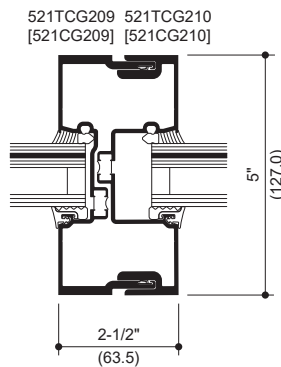
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NON-THERMAL



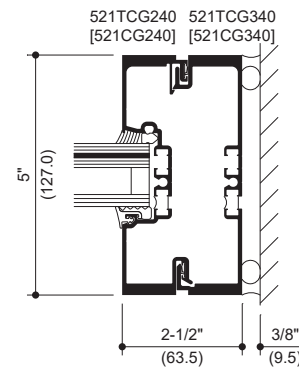
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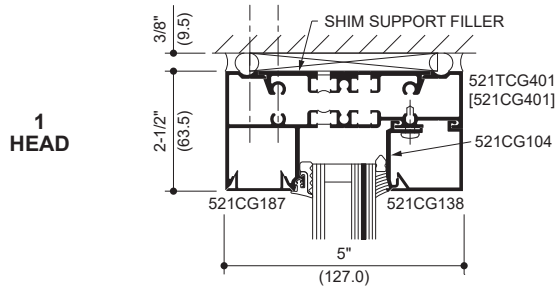
4  
FIRST BAY JAMB



5  
VERTICAL MULLION

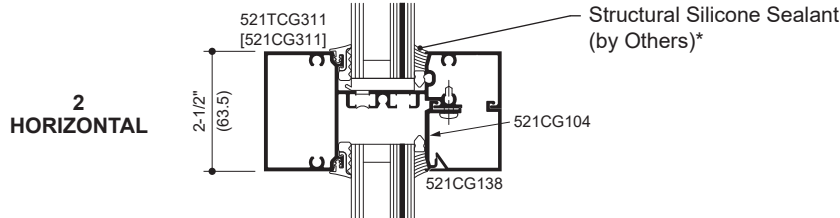


6  
LAST BAY JAMB

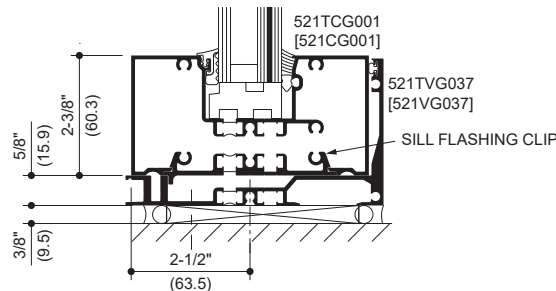


1  
HEAD

1-5/16" INFILL  
(PRE GLAZED - WET GLAZED)



2  
HORIZONTAL

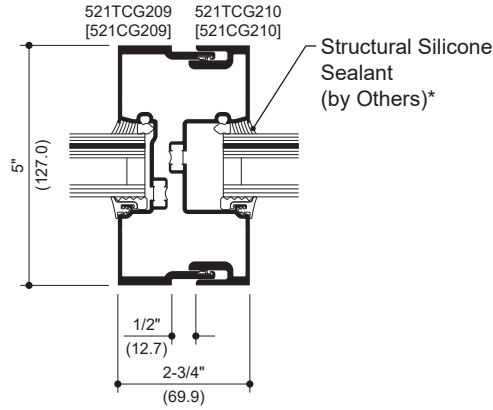


3  
SILL

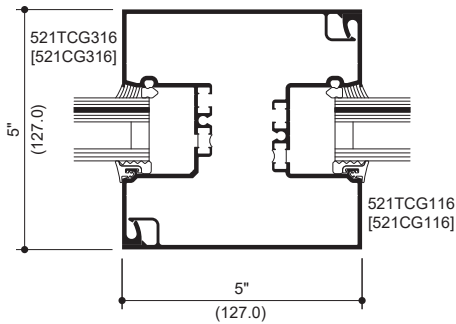
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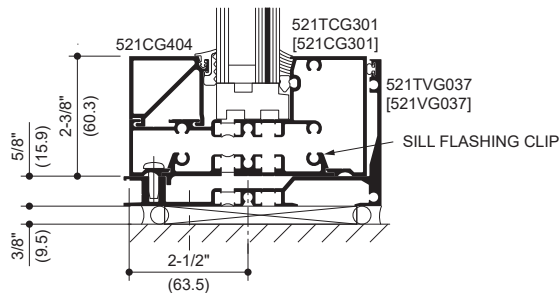
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**EXPANSION MULLION**



**5" x 5" MULLION**



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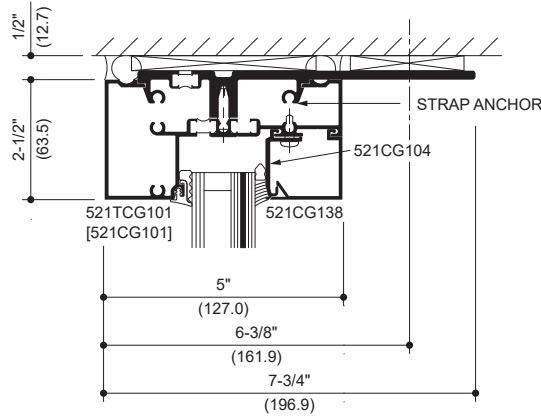
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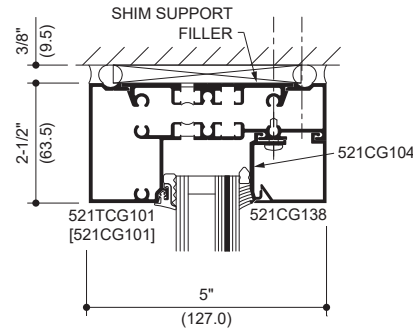


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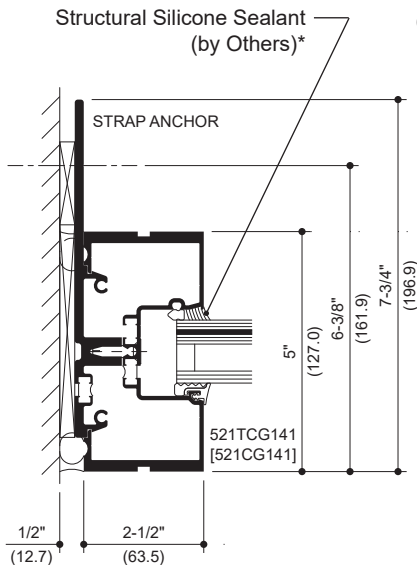
## 1-5/16" INFILL (PRE GLAZED - WET GLAZED)



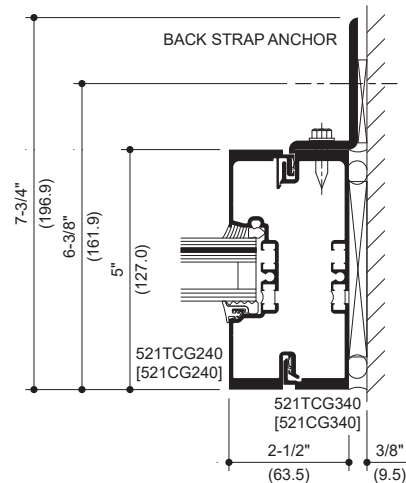
**HEAD**



**OPTIONAL HEAD WITH STOP**



**FIRST BAY JAMB**



**LAST BAY JAMB**

\* **INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

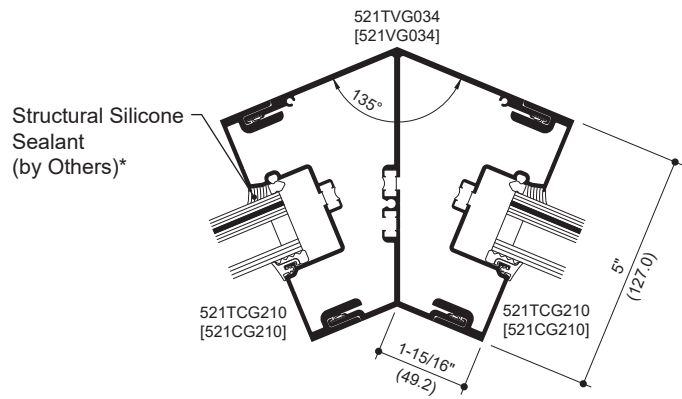
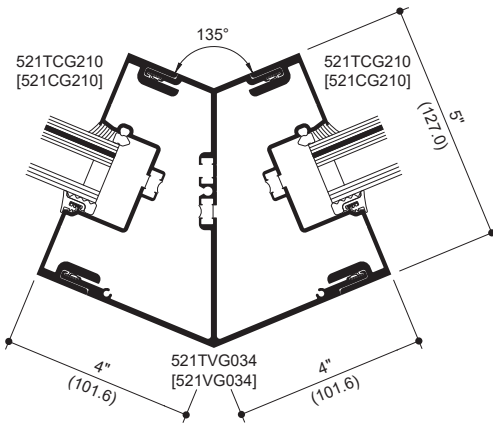
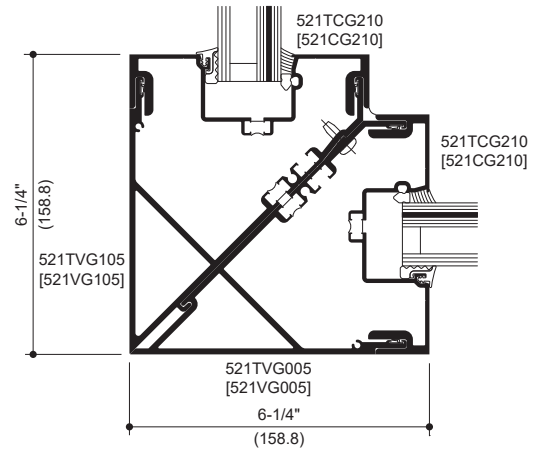
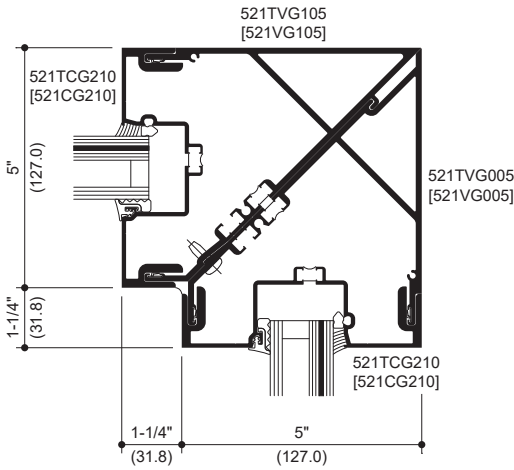
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### 1-5/16" INFILL (PRE GLAZED - WET GLAZED)



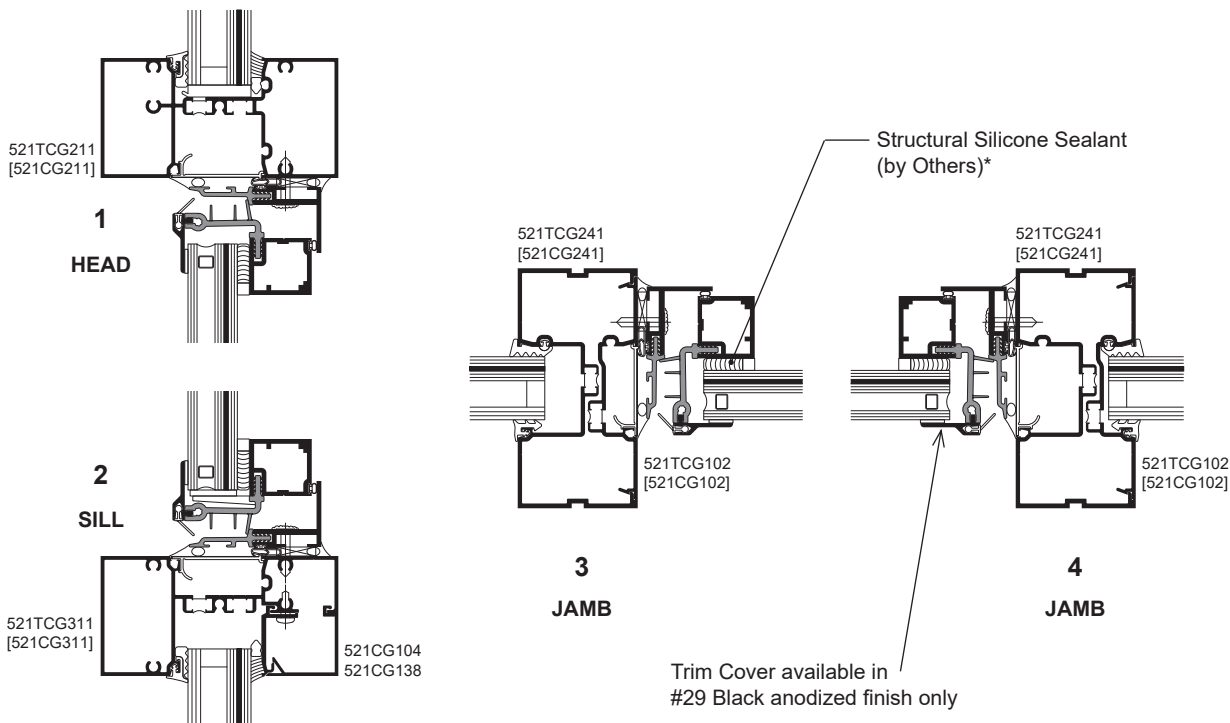
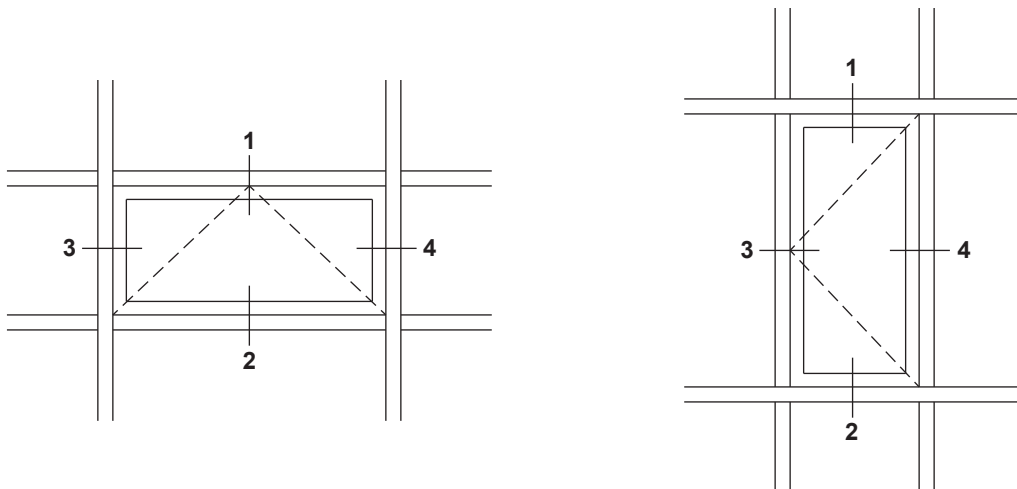
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## 1-5/16" INFILL (PRE GLAZED - WET GLAZED)

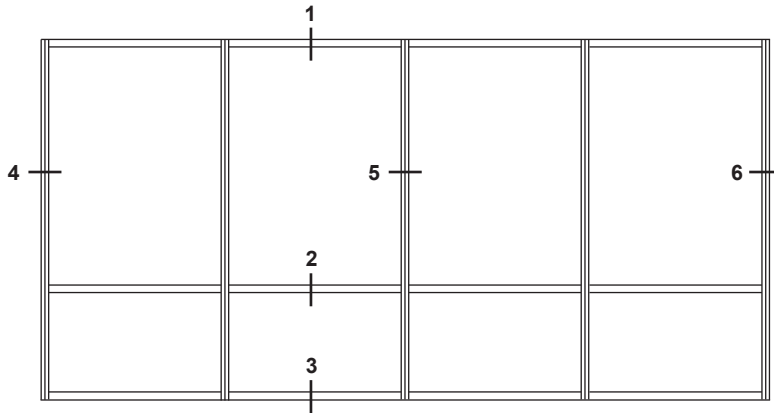


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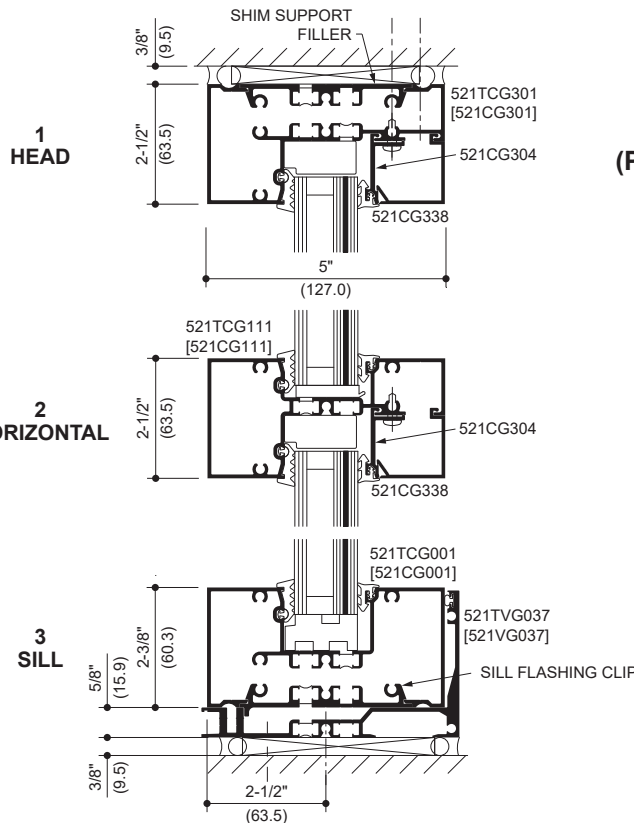
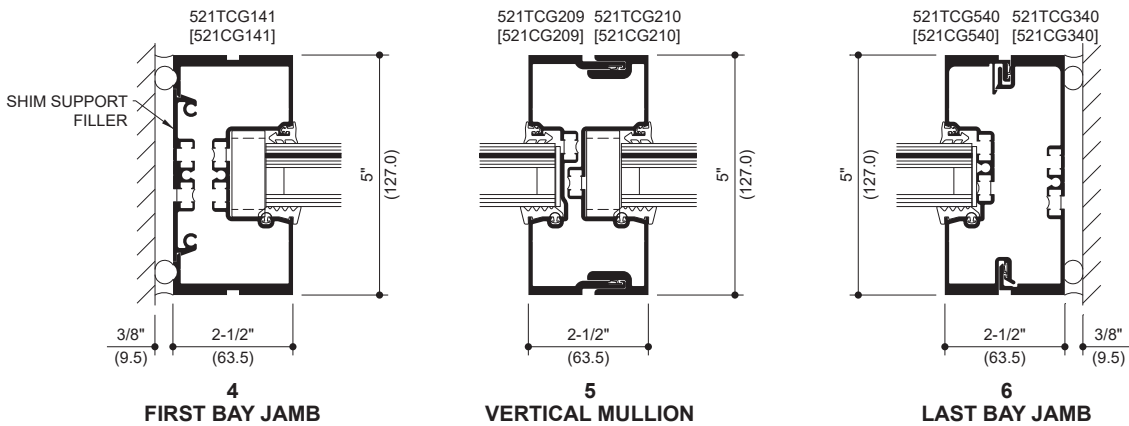


**IR 521 IsoLock®  
NON-THERMAL**



**IR 521T Single IsoLock®  
THERMAL BREAK (SHOWN)**

**ELEVATION IS NUMBER KEYED TO DETAILS**



**1-5/16" INFILL  
(PRE GLAZED - DRY GLAZED)**

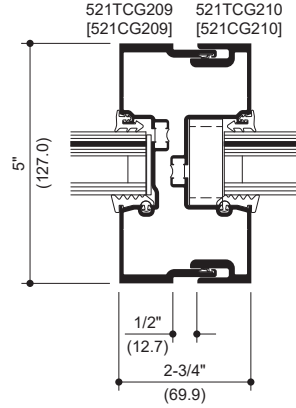
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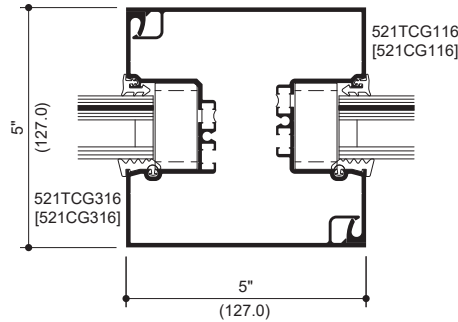


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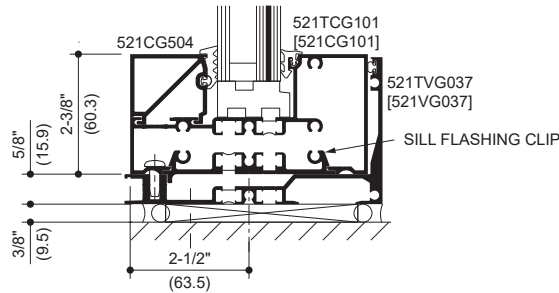
**1-5/16" INFILL (PRE GLAZED - DRY GLAZED)**



**EXPANSION MULLION**



**5" x 5" MULLION**



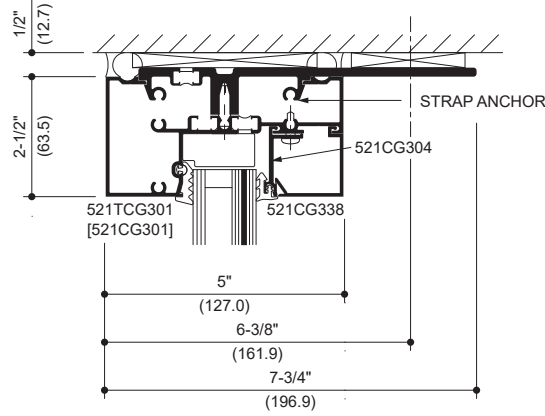
**PINNED HORIZONTAL TO SILL FLASHING**

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

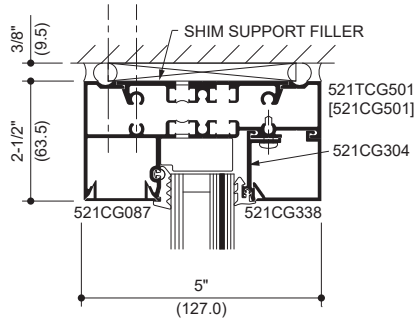
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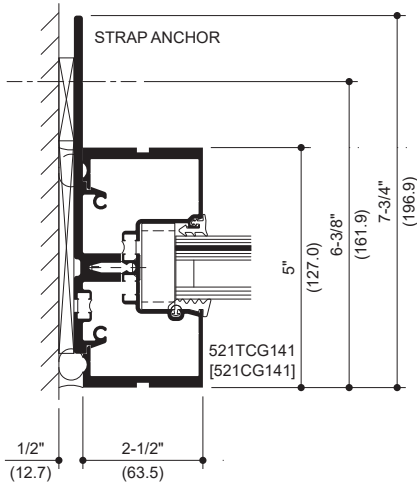
### 1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



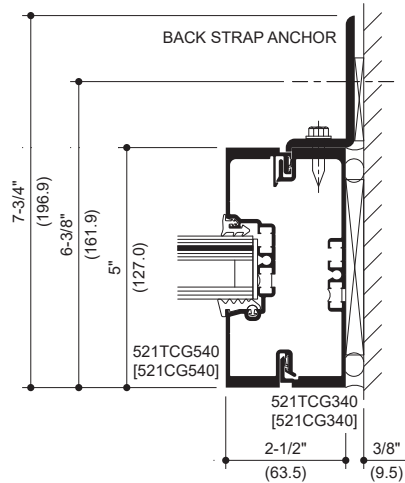
HEAD



OPTIONAL HEAD WITH STOP



FIRST BAY JAMB



LAST BAY JAMB

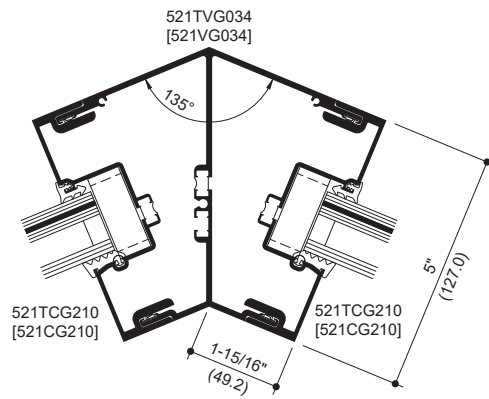
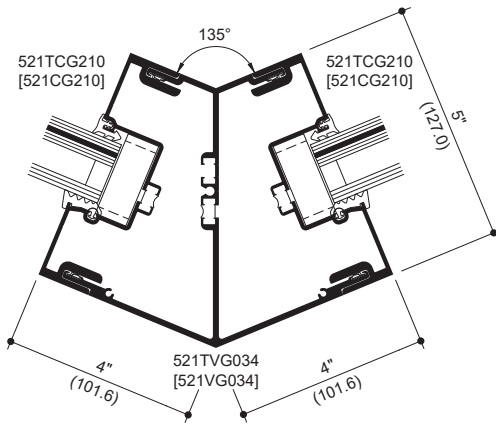
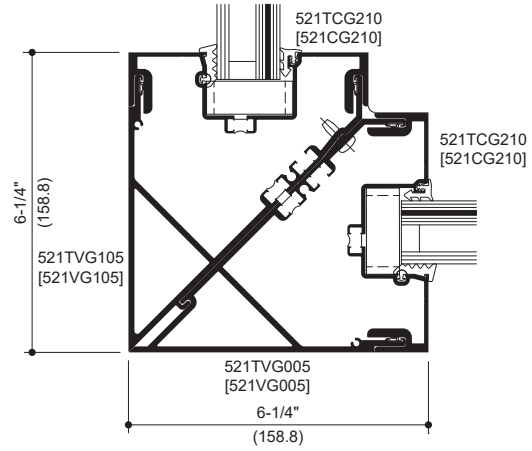
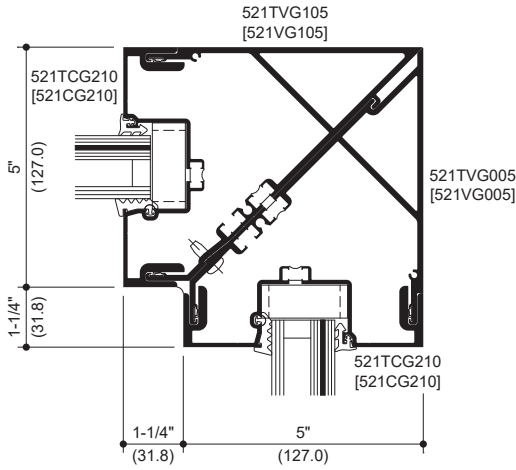
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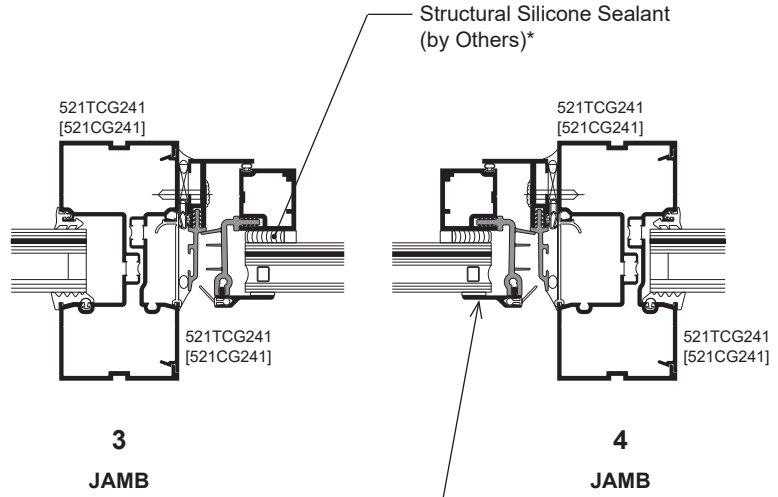
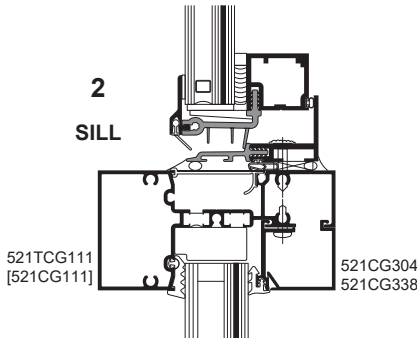
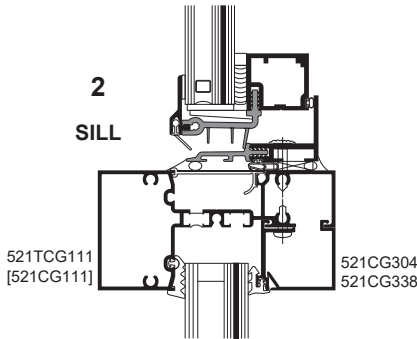
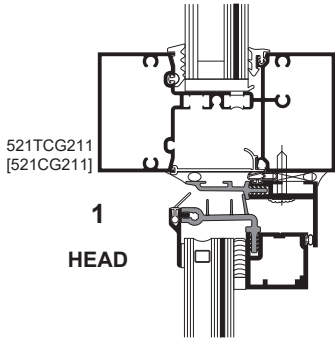
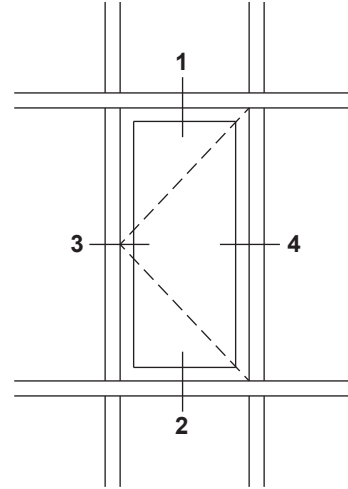
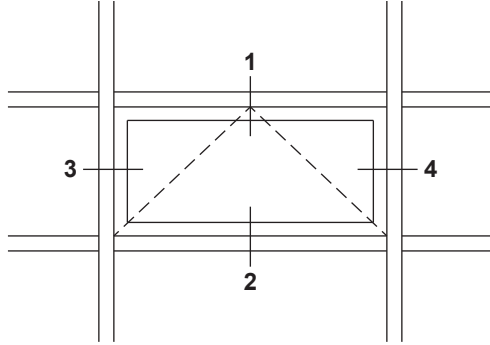
## 1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



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## 1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



Trim Cover available in #29 Black anodized finish only

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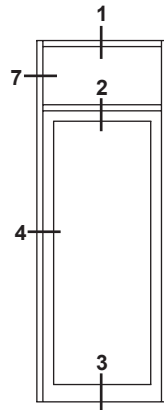
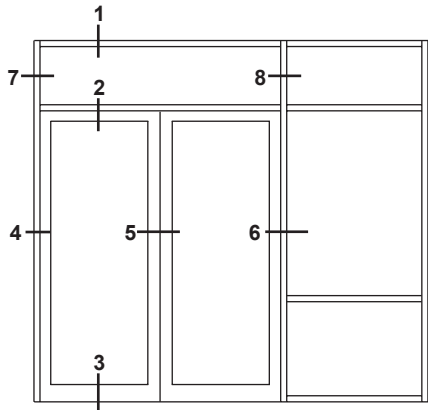
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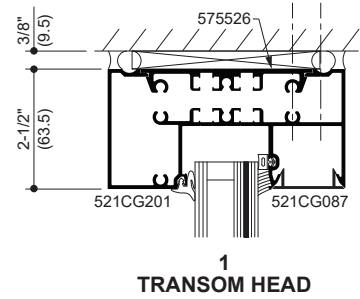


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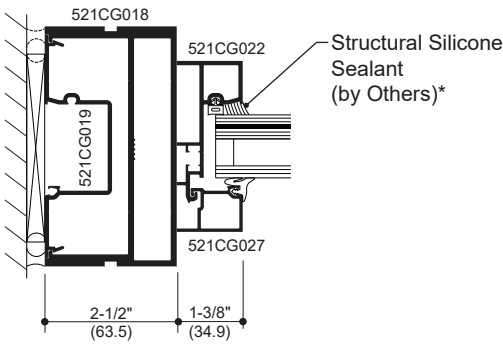
IR 521 FRAMING INCORPORATING KAWNEER 350 IR DOORS.  
SEE 350/500 IR ENTRANCES FOR ADDITIONAL DOOR AND ENTRANCE FRAMING OPTIONS.



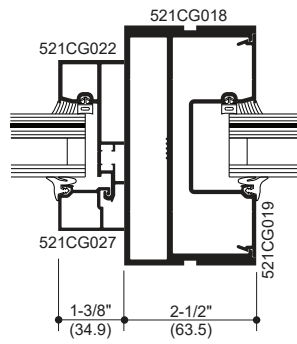
ELEVATION IS NUMBER KEYED TO DETAILS



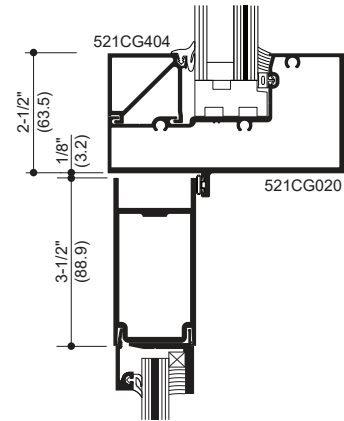
1  
TRANSOM HEAD



7  
DOOR JAMB  
AT TRANSOM

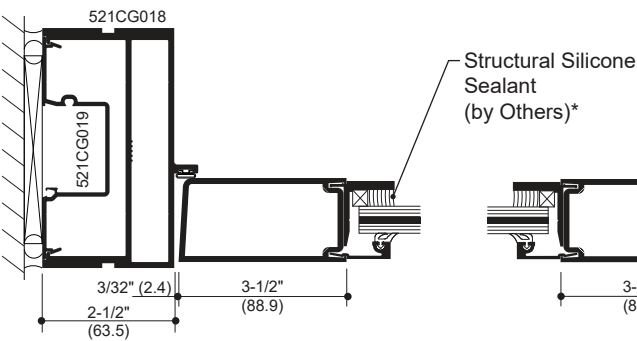


8  
DOOR JAMB  
AT TRANSOM

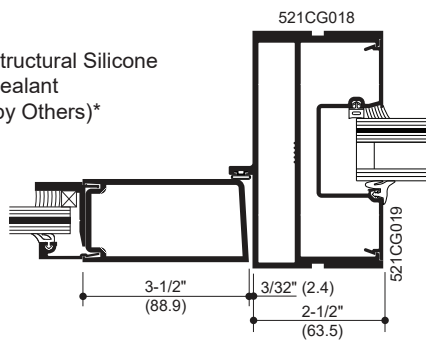


2  
DOOR WITH TRANSOM

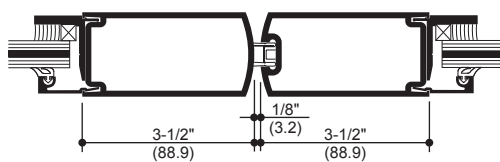
Transom for C.O.C. also available



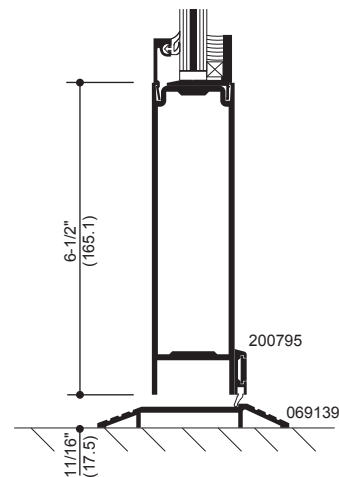
4  
DOOR JAMB



6  
DOOR JAMB



5  
PAIR OF DOORS



3  
THRESHOLD

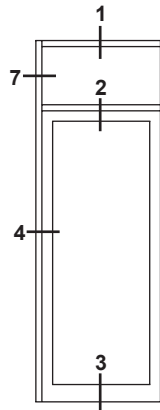
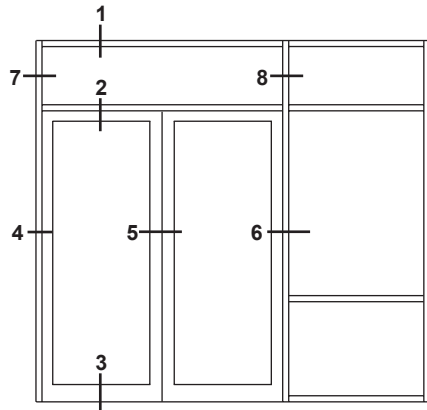
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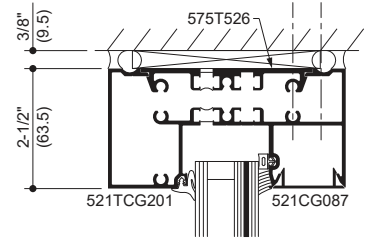


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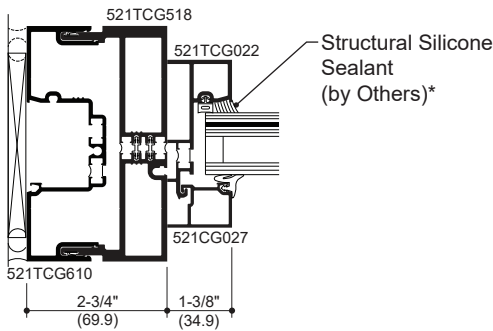
IR 521T FRAMING INCORPORATING KAWNEER 350T INSULPOUR® DOORS.  
SEE 250T/350T/500T INSULPOUR® ENTRANCES FOR ADDITIONAL DOOR AND ENTRANCE FRAMING OPTIONS.



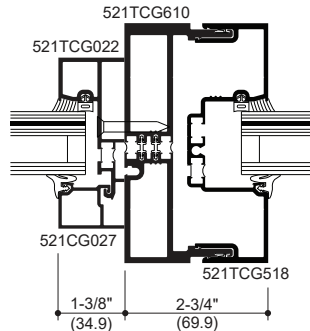
ELEVATION IS NUMBER KEYED TO DETAILS



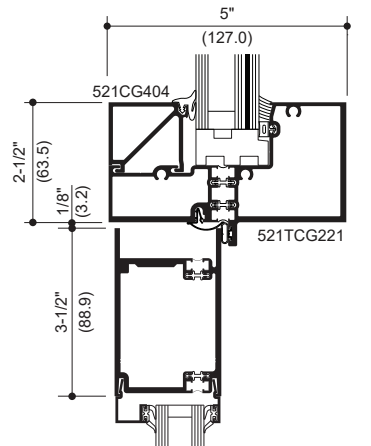
1  
TRANSOM HEAD



7  
DOOR JAMB  
AT TRANSOM

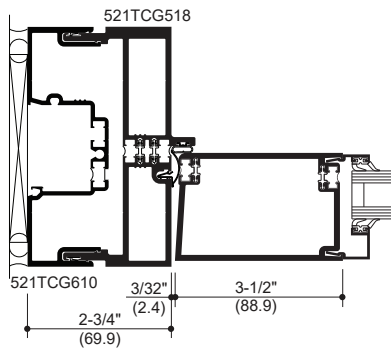


8  
DOOR JAMB  
AT TRANSOM

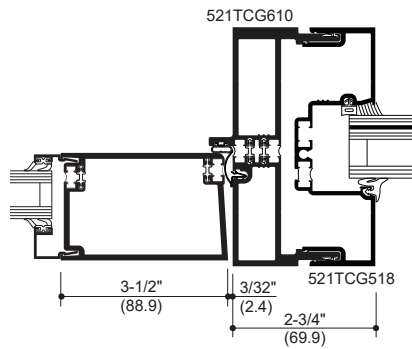


2  
DOOR WITH TRANSOM

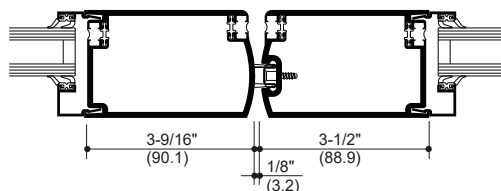
Transom for C.O.C. also available



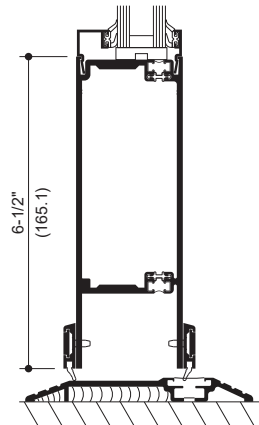
4  
DOOR JAMB



6  
DOOR JAMB



5  
PAIR OF DOORS



3  
THRESHOLD

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## WIND LOAD CHARTS

Mullions are designed for deflection limitations in accordance with AAMA TIR-A11 of L/175 up to 13' 6" and L/240 +1/4" above 13' 6". These curves are for mullions WITH HORIZONTALS and are based on engineering calculations for stress and deflection. Allowable wind load stress for ALUMINUM 15,152 psi (104MPa), STEEL 30,000 psi (207MPa). Charted curves, in all cases are for the limiting value. Wind load charts contained herein are based upon nominal wind load utilized in allowable stress design. A conversion from Load Resistance Factor Design (LRFD) is provided. To convert ultimate wind loads to nominal loads, multiply ultimate wind loads by a factor of 0.6 per ASCE/SEI 7. A 4/3 increase in allowable stress has not been used to develop these curves. For special situations not covered by these curves, contact your Kawneer representative for additional information.

## DEADLOAD CHARTS

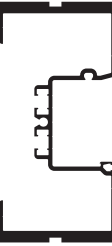
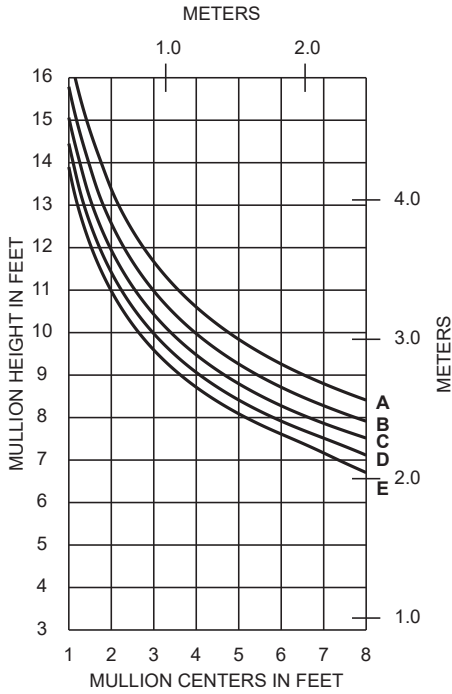
Horizontal or deadload limitations are based upon 1/8" (3.2), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1-5/16" (33.3) thick insulated impact resistant glass supported on two setting blocks placed at the loading points shown.

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	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)

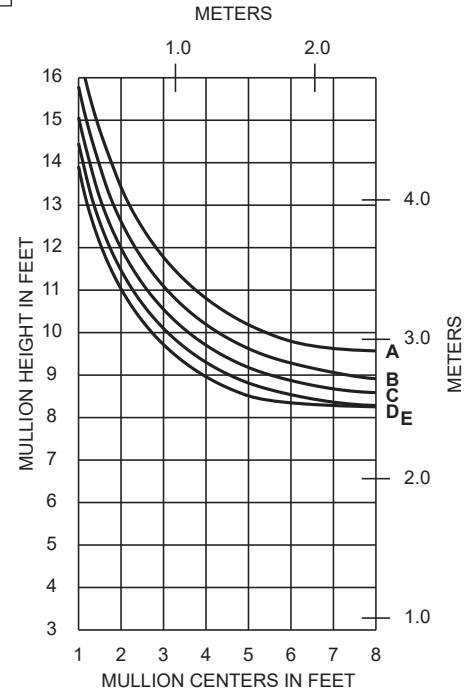
WITH HORIZONTALS



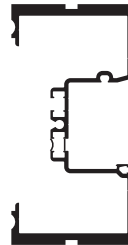
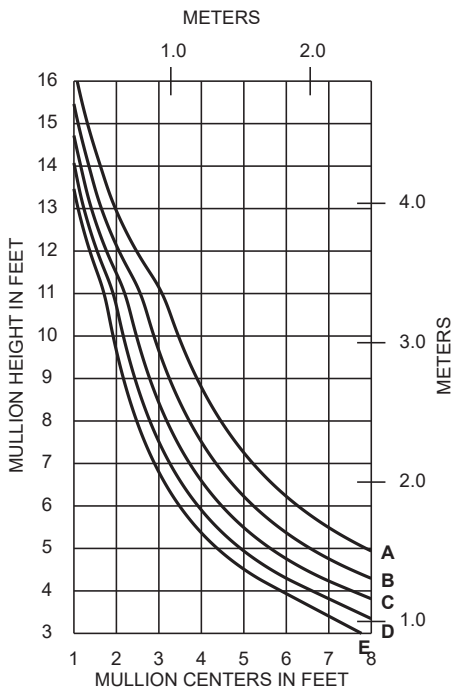
521CG141 (IR 521)

$I_A = 8.019 \text{ in}^4 (333.77 \times 10^4 \text{ mm}^4)$   
 $S_A = 3.204 \text{ in}^3 (52.50 \times 10^3 \text{ mm}^3)$

WITHOUT HORIZONTALS



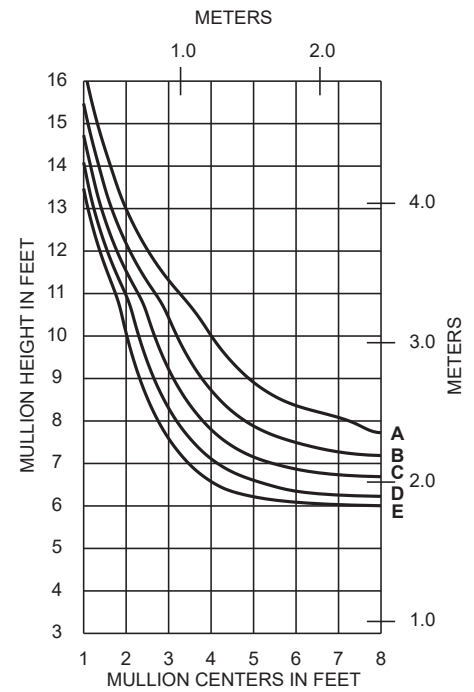
WITH HORIZONTALS



521TCG141 (IR 521T)

WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

WITHOUT HORIZONTALS



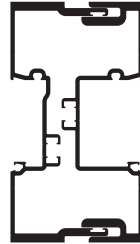
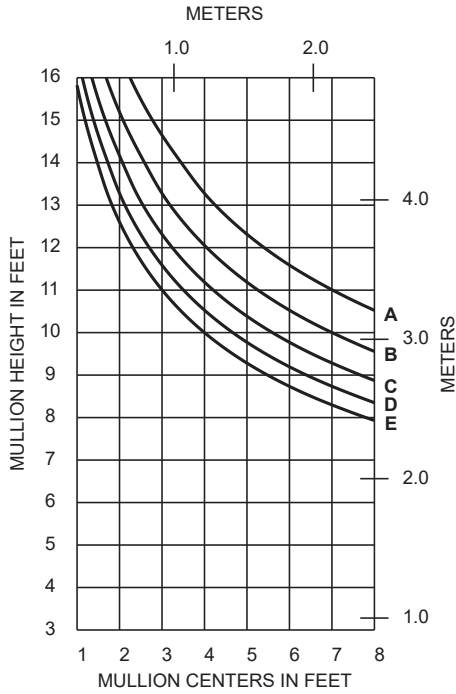
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	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

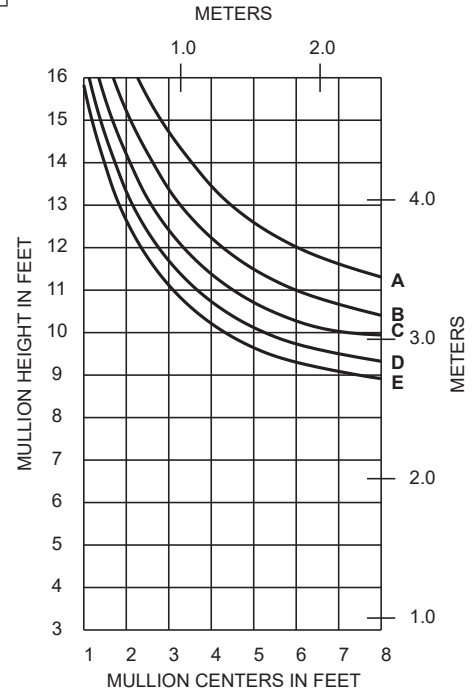
WITH HORIZONTALS



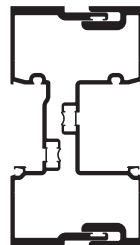
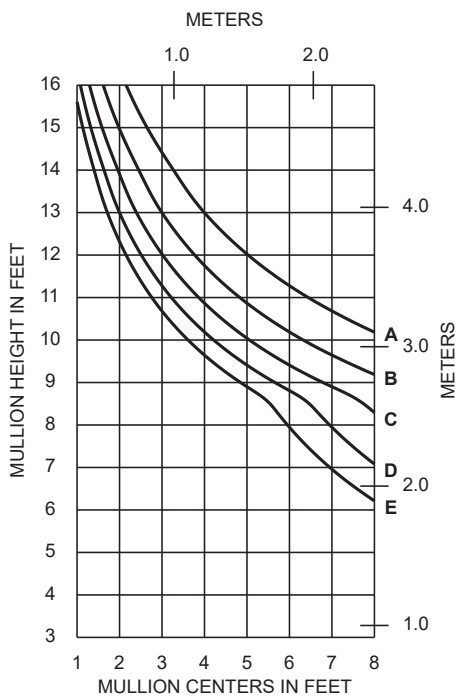
521CG209 / 521CG210  
(IR 521)

$I_A = 9.421 \text{ in}^4 (392.13 \times 10^4 \text{ mm}^4)$   
 $S_A = 3.754 \text{ in}^3 (61.52 \times 10^3 \text{ mm}^3)$

WITHOUT HORIZONTALS



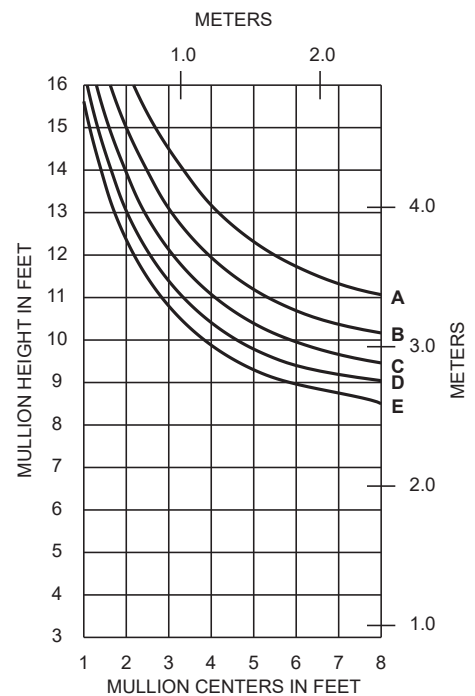
WITH HORIZONTALS



575TCG209 / 575TCG210  
(IR 521T)

WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

WITHOUT HORIZONTALS

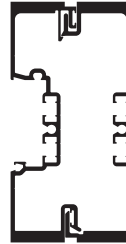
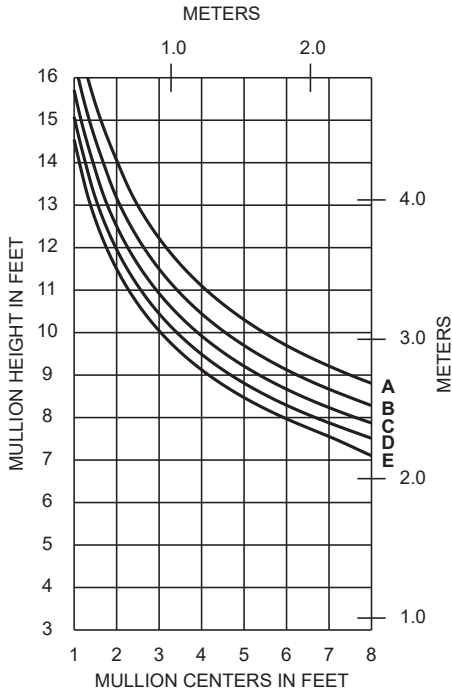


Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)

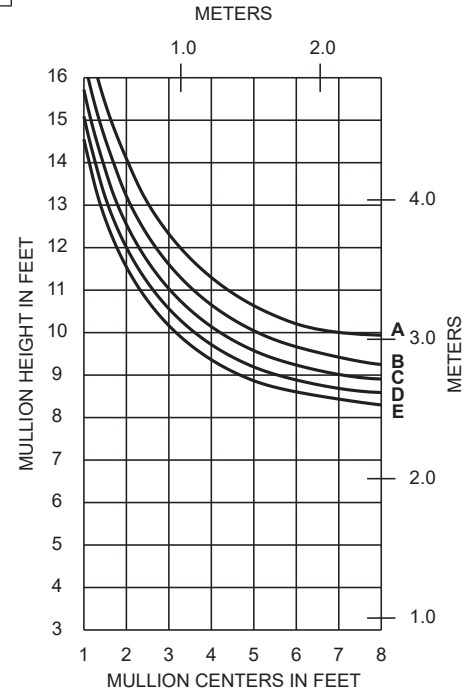
**WITH HORIZONTALS**



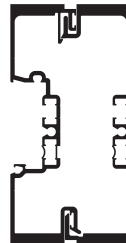
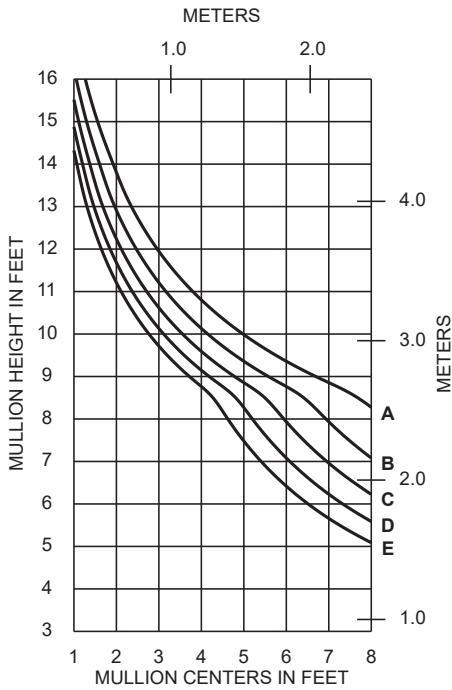
**521CG240 / 521CG340  
(IR 521)**

$I_A = 9.206 \text{ in}^4 (383.18 \times 10^4 \text{ mm}^4)$   
 $S_A = 3.611 \text{ in}^3 (59.17 \times 10^3 \text{ mm}^3)$

**WITHOUT HORIZONTALS**



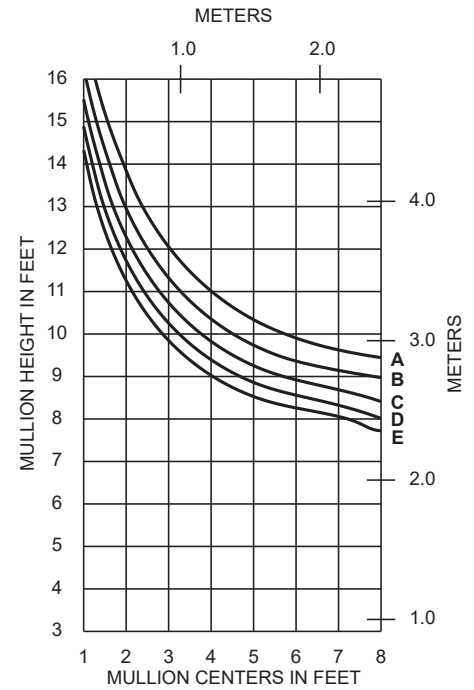
**WITH HORIZONTALS**



**521TCG240 / 521TCG340  
(IR 521T)**

WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

**WITHOUT HORIZONTALS**

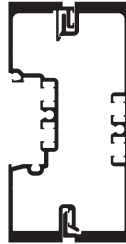
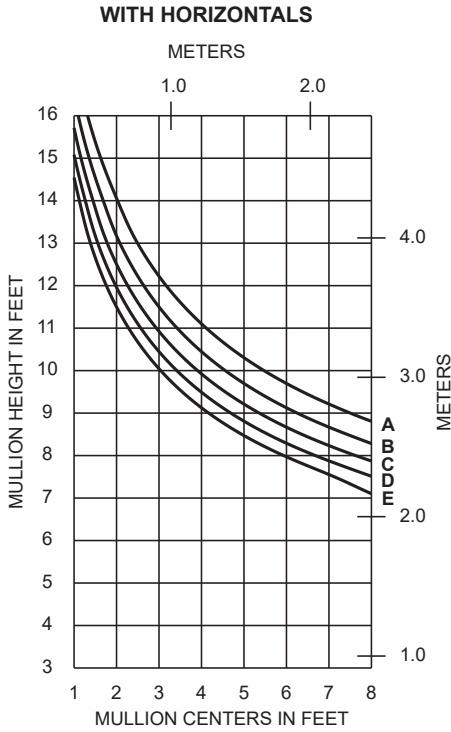


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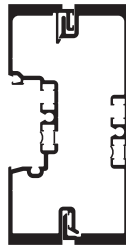
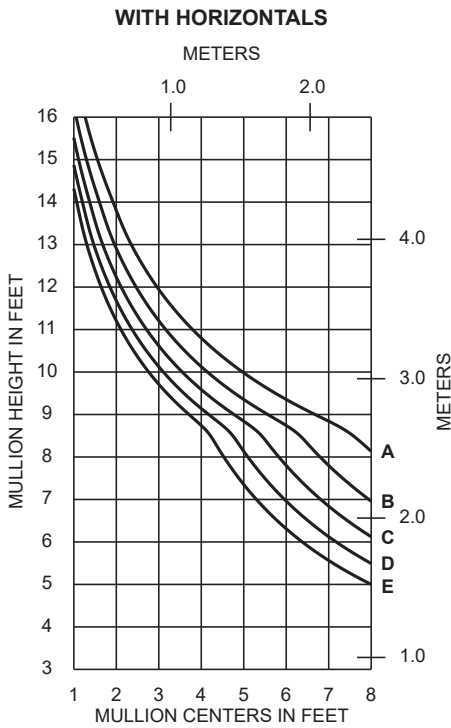
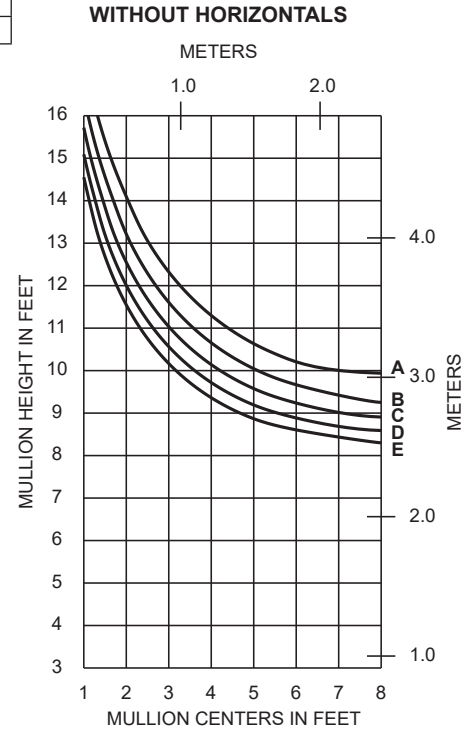


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)



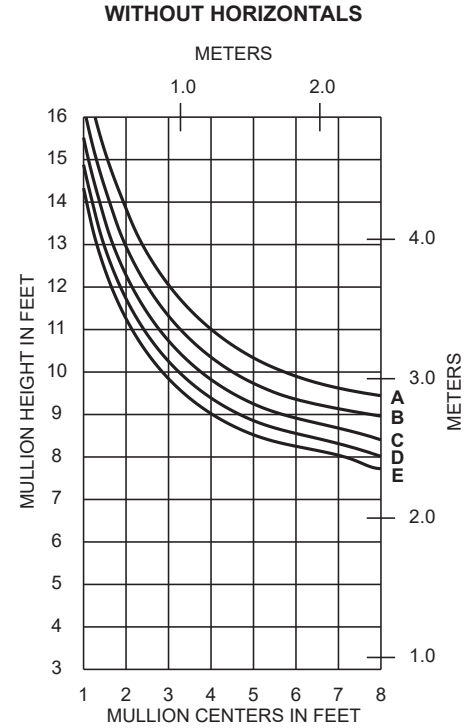
**521CG540 / 521CG340 (IR 521)**

$I_A = 9.206 \text{ in}^4 (383.18 \times 10^4 \text{ mm}^4)$   
 $S_A = 3.612 \text{ in}^3 (59.19 \times 10^3 \text{ mm}^3)$



**521TCG540 / 521TCG340 (IR 521T)**

WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

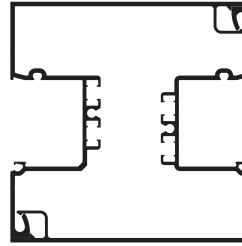
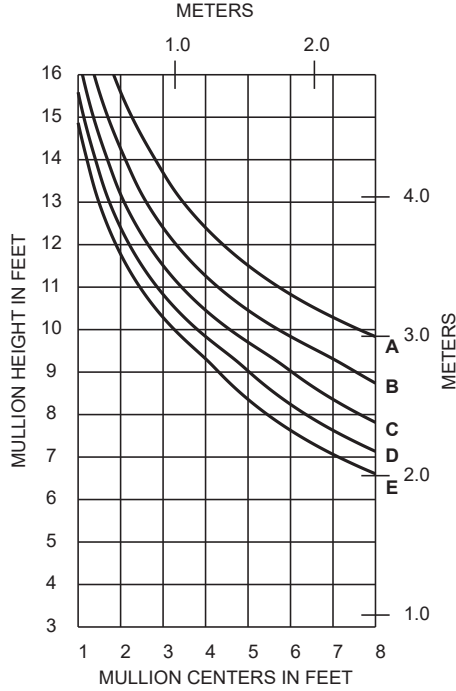


Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

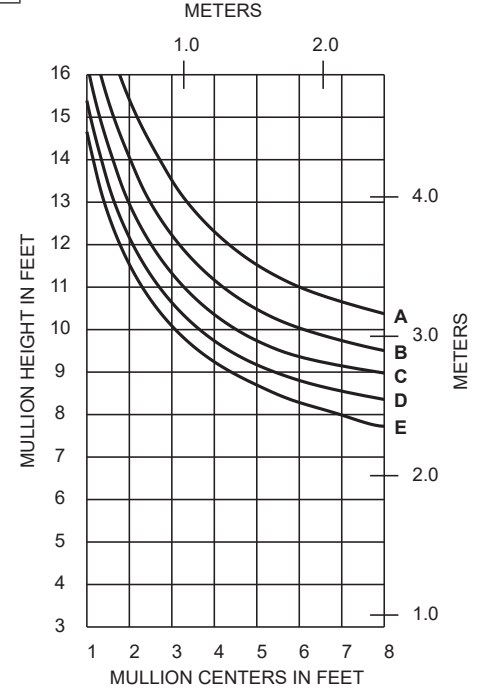
**521CG316 & 521CG116 WITH HORIZONTALS**



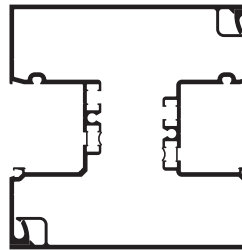
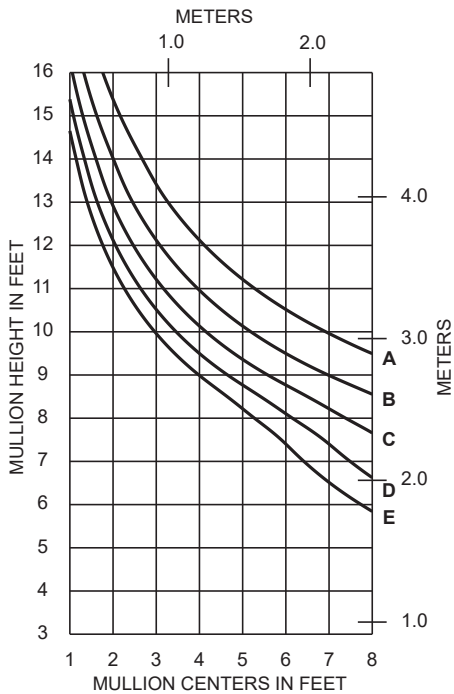
**521CG316 / 521CG116 (IR 521)**

$I_A = 7.693 \text{ in}^4 (320.21 \times 10^4 \text{ mm}^4)$   
 $S_A = 2.422 \text{ in}^3 (39.69 \times 10^3 \text{ mm}^3)$

**521CG316 & 521CG116 WITHOUT HORIZONTALS**



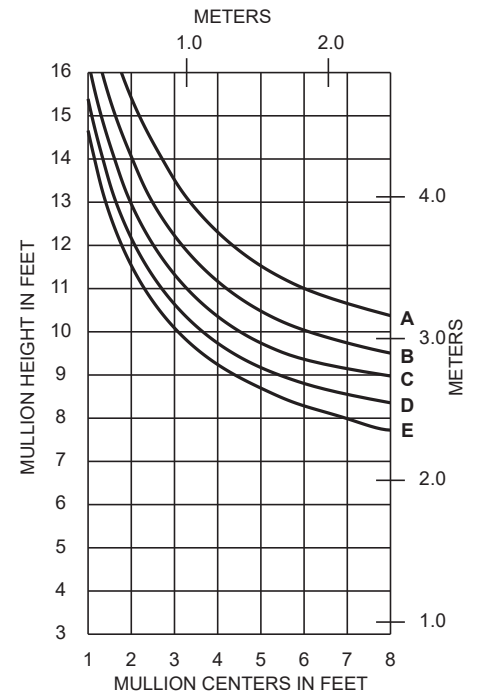
**521CGT316 & 521TCG116 WITH HORIZONTALS**



**521TCG316 / 521TCG116 (IR 521T)**

WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

**521TCG316 & 521TCG116 WITHOUT HORIZONTALS**



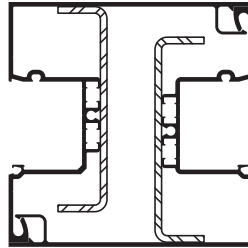
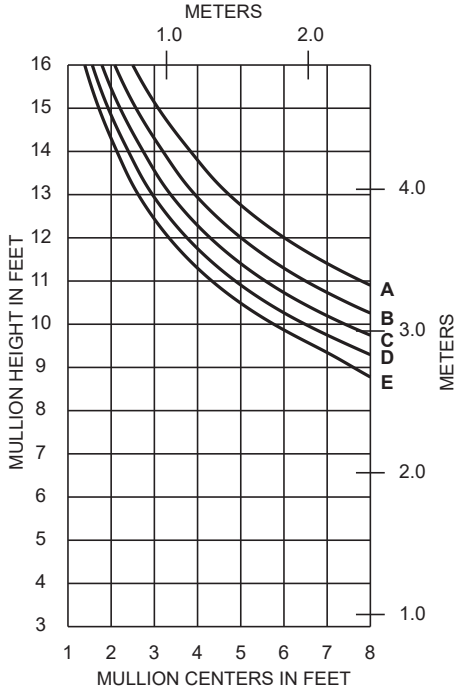
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)

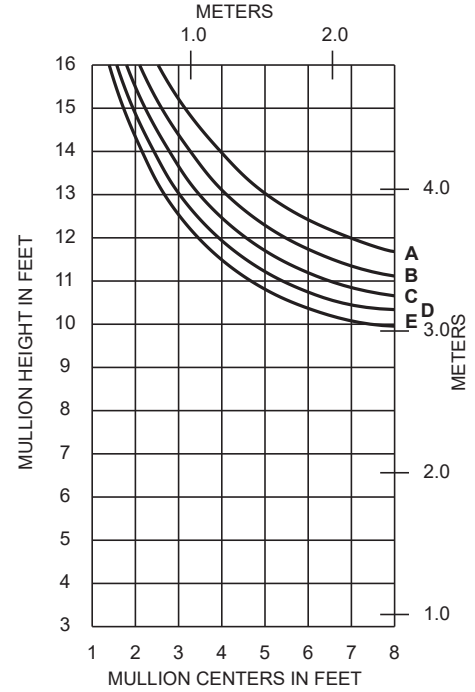
**521TCG316 & 521TCG116 WITH HORIZONTALS**



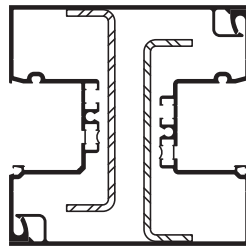
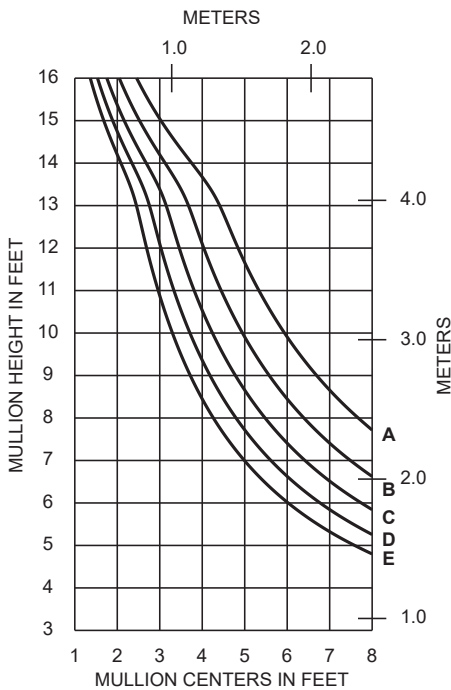
**521CG316 / 521CG116 with 575300 STEEL (IR 521)**

$I_A = 7.693 \text{ in}^4 (320.21 \times 10^4 \text{ mm}^4)$   
 $S_A = 2.422 \text{ in}^3 (39.69 \times 10^3 \text{ mm}^3)$   
 $I_S = 3.368 \text{ in}^4 (140.19 \times 10^4 \text{ mm}^4)$   
 $S_S = 1.608 \text{ in}^3 (26.35 \times 10^3 \text{ mm}^3)$

**521TCG316 & 521TCG116 WITHOUT HORIZONTALS**



**WITH HORIZONTALS**

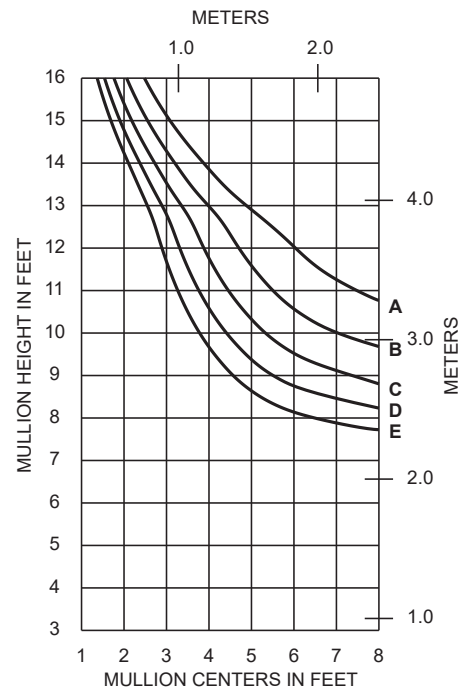


**521TCG316 / 521TCG116 WITH 575300 STEEL (IR 521T)**

$I_S = 3.368 \text{ in}^4 (140.19 \times 10^4 \text{ mm}^4)$   
 $S_S = 1.608 \text{ in}^3 (26.35 \times 10^3 \text{ mm}^3)$

WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

**WITHOUT HORIZONTALS**



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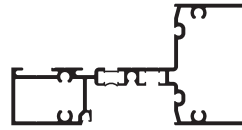
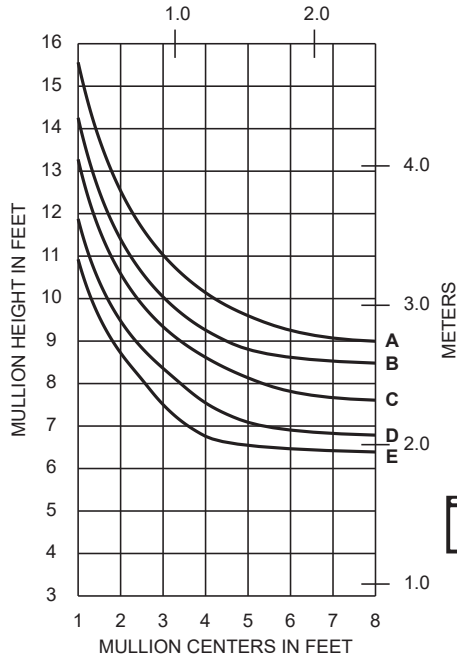
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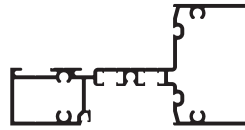
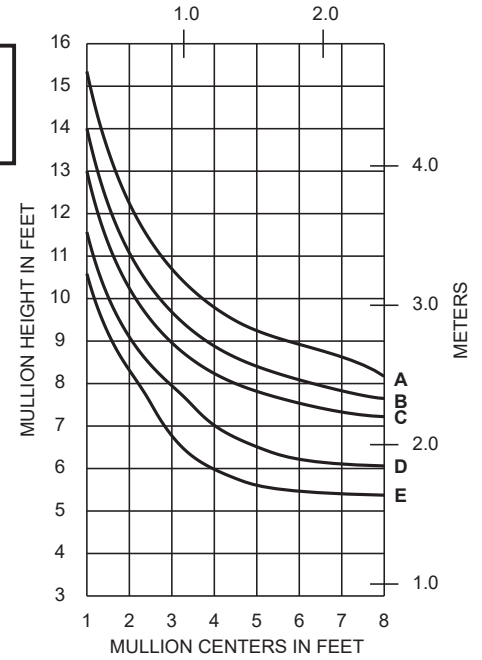
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	70 PSF (3360)	117 PSF (5600)
E =	90 PSF (4310)	150 PSF (7200)

**521CG011**  
SINGLE SPAN  
METERS



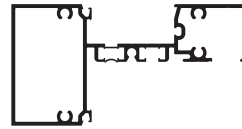
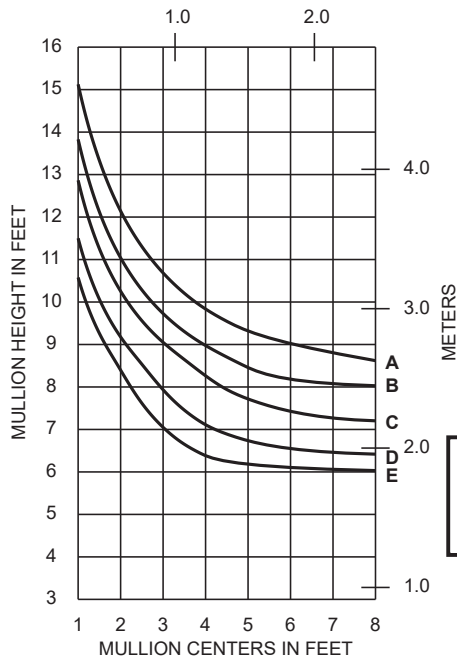
**521TCG011**  
(IR 521T)

**521TCG011**  
SINGLE SPAN  
METERS



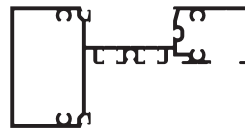
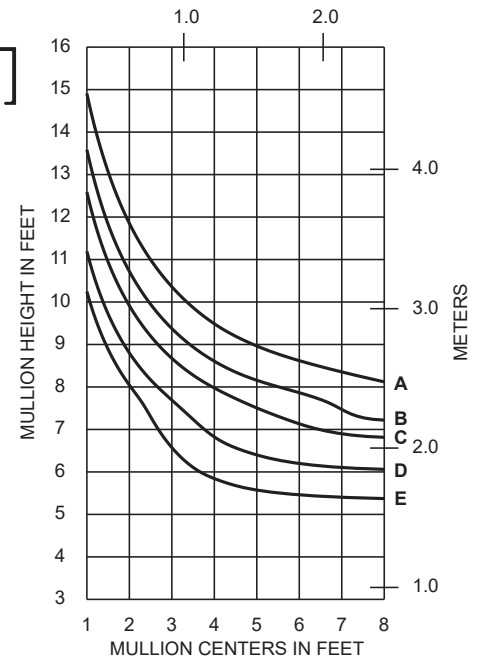
**521CG011**  
(IR 521)

**521CG311**  
SINGLE SPAN  
METERS



**521TCG311**  
(IR 521T)

**521TCG311**  
SINGLE SPAN  
METERS



**521CG311**  
(IR 521)

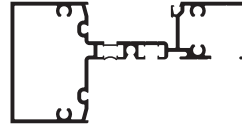
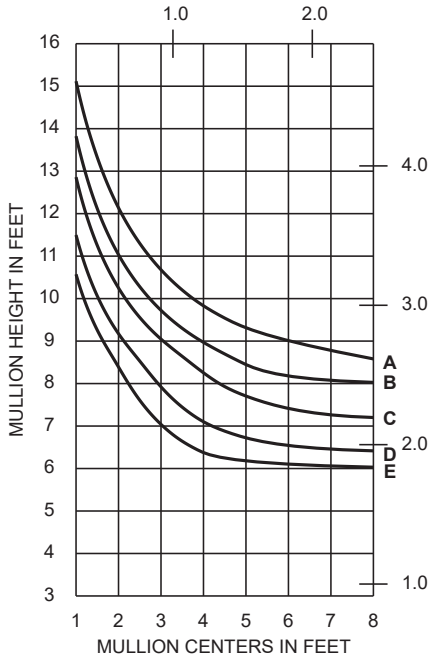
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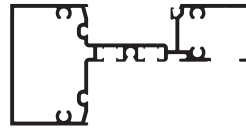
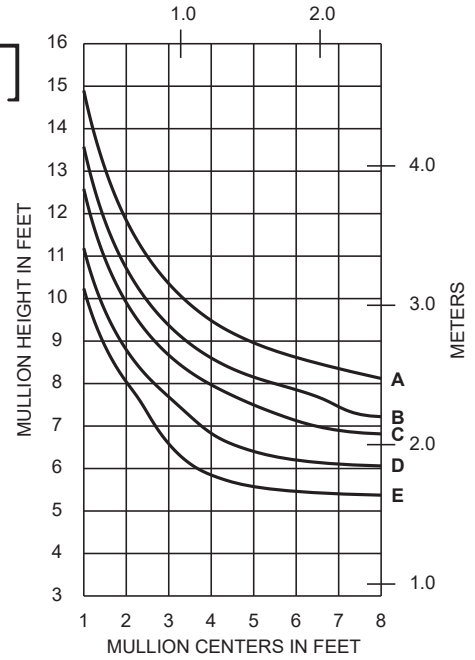


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	70 PSF (3360)	117 PSF (5600)
E =	90 PSF (4310)	150 PSF (7200)

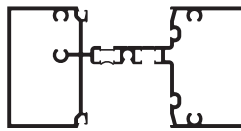
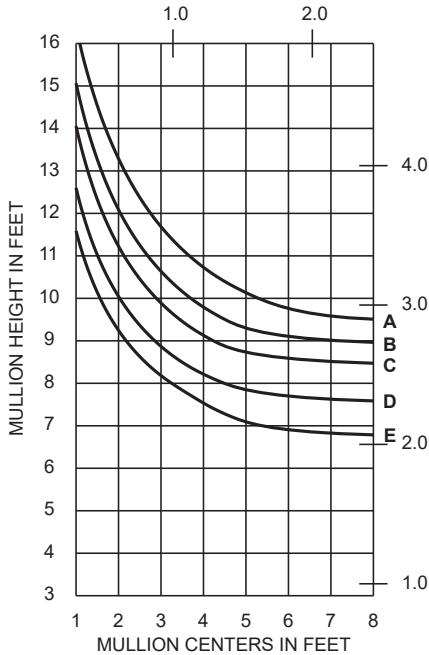
**521CG111**  
SINGLE SPAN  
METERS



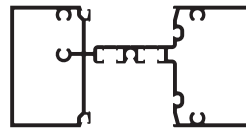
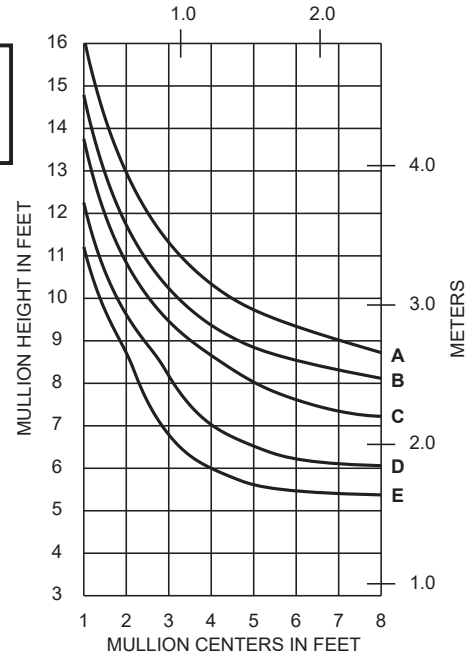
**521TCG111**  
SINGLE SPAN  
METERS



**521CG211**  
SINGLE SPAN  
METERS



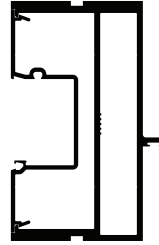
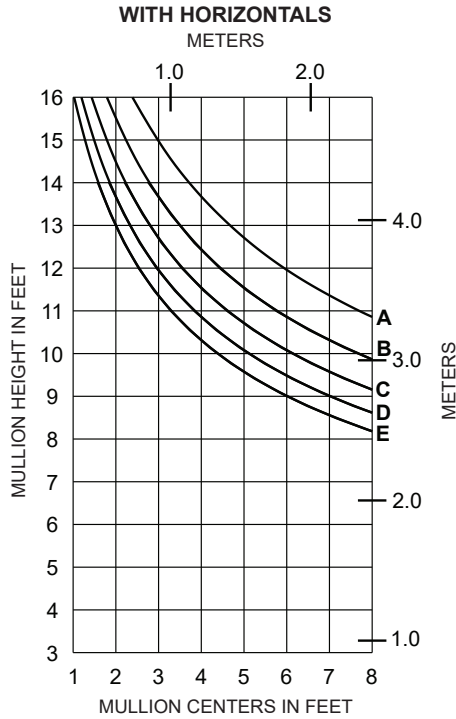
**521TCG311**  
SINGLE SPAN  
METERS



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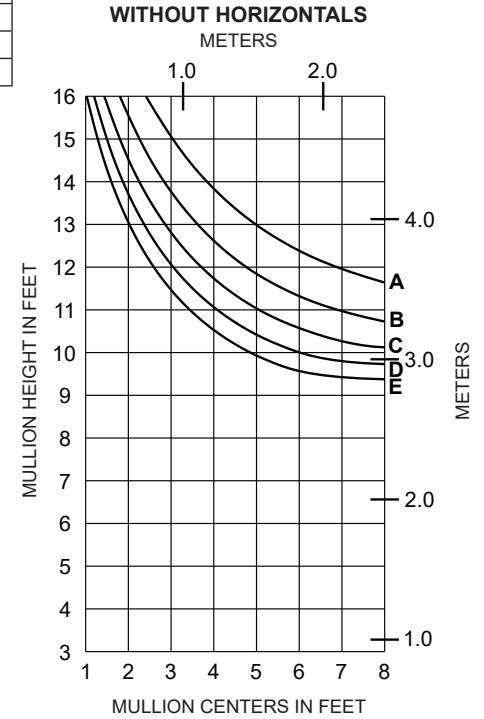
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	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

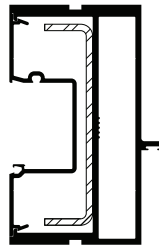
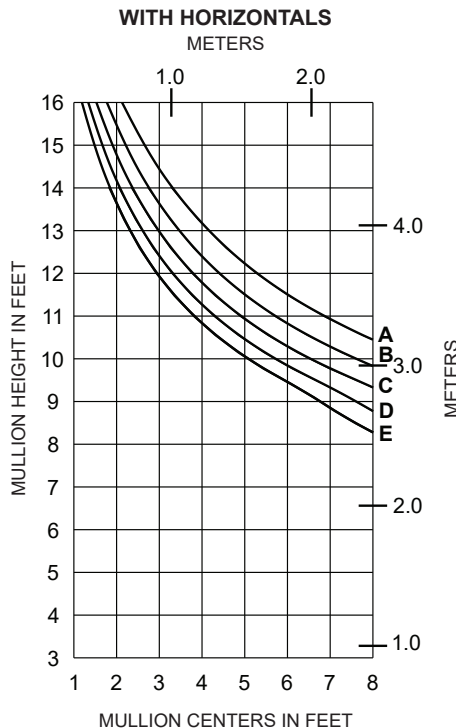


**521CG019 / 521CG018**  
(IR 521)

$I_A = 10.060 \text{ in}^4 (418.73 \times 10^4 \text{ mm}^4)$   
 $S_A = 3.958 \text{ in}^3 (64.86 \times 10^3 \text{ mm}^3)$

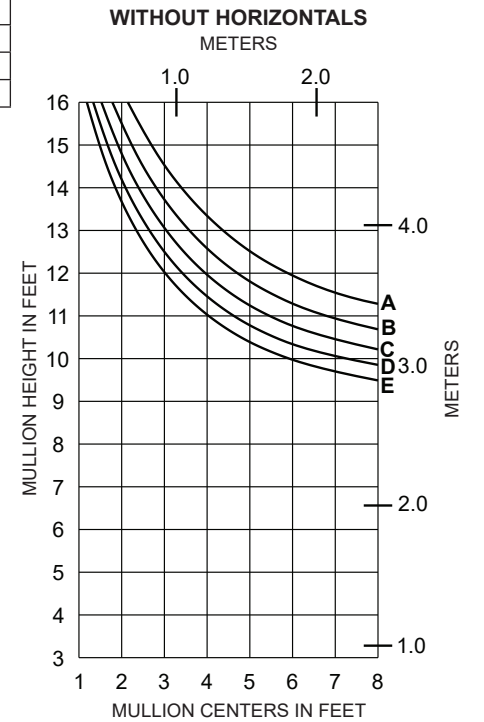


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)



**521CG019 / 521CG018**  
**WITH 575300 STEEL**  
(IR 521)

$I_A = 10.060 \text{ in}^4 (418.73 \times 10^4 \text{ mm}^4)$   
 $S_A = 3.958 \text{ in}^3 (64.86 \times 10^3 \text{ mm}^3)$   
 $I_S = 1.684 \text{ in}^4 (80.54 \times 10^4 \text{ mm}^4)$   
 $S_S = 0.804 \text{ in}^3 (15.37 \times 10^3 \text{ mm}^3)$

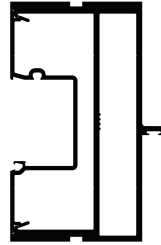
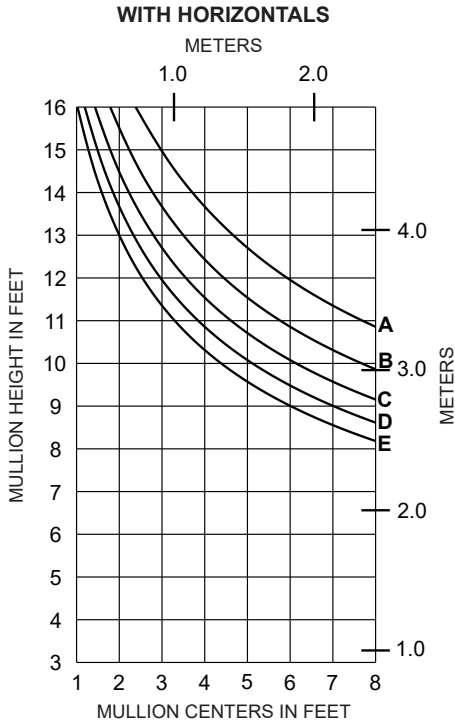


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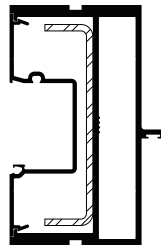
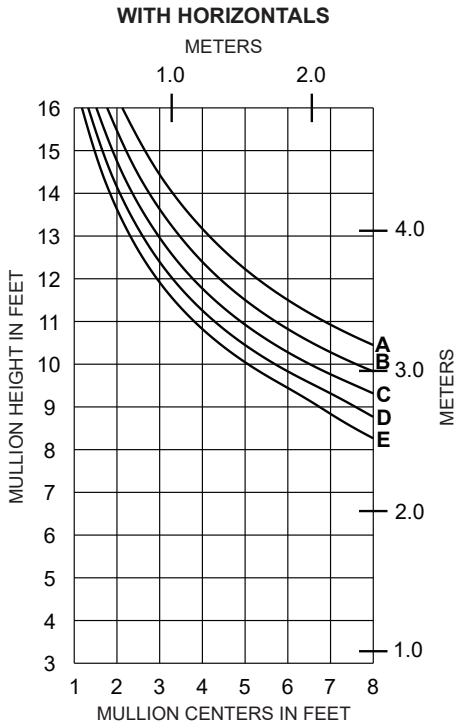
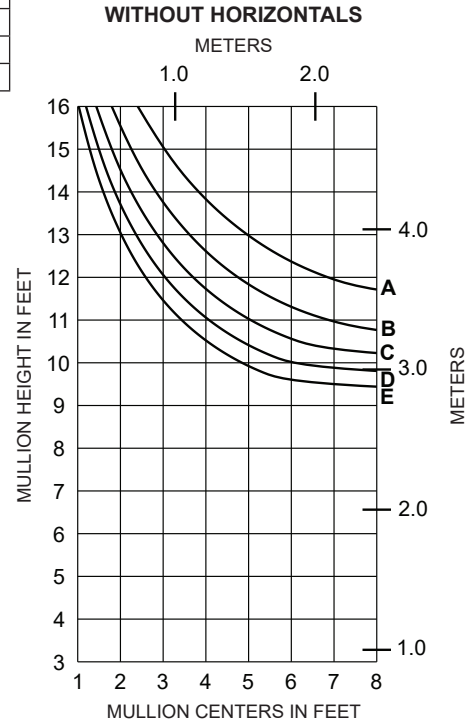


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)



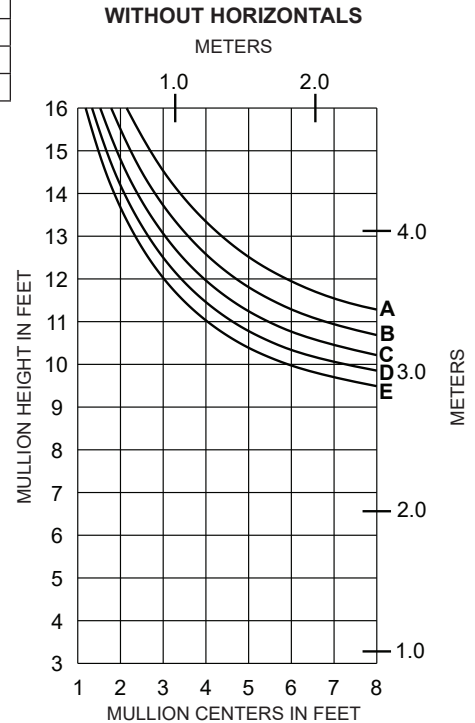
**521CG019 / 521CG118**  
(IR 521)

$I_A = 10.060 \text{ in}^4 (418.73 \times 10^4 \text{ mm}^4)$   
 $S_A = 3.952 \text{ in}^3 (64.50 \times 10^3 \text{ mm}^3)$



**521CG019 / 521CG118**  
**WITH 575300 STEEL**  
(IR 521)

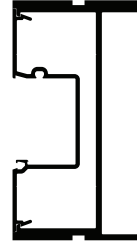
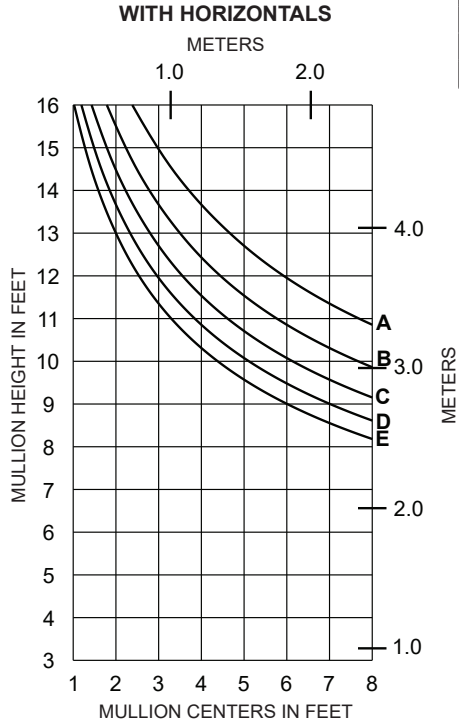
$I_A = 10.060 \text{ in}^4 (418.73 \times 10^4 \text{ mm}^4)$   
 $S_A = 3.952 \text{ in}^3 (64.50 \times 10^3 \text{ mm}^3)$   
 $I_S = 1.684 \text{ in}^4 (80.54 \times 10^4 \text{ mm}^4)$   
 $S_S = 0.804 \text{ in}^3 (15.37 \times 10^3 \text{ mm}^3)$



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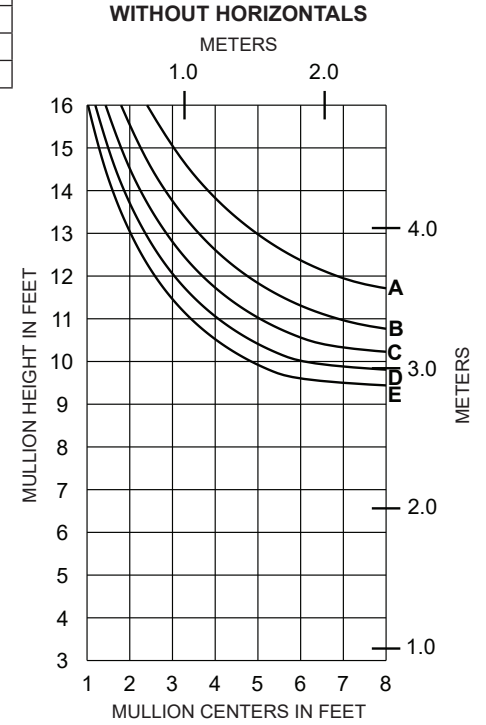
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	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

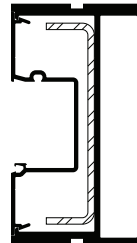
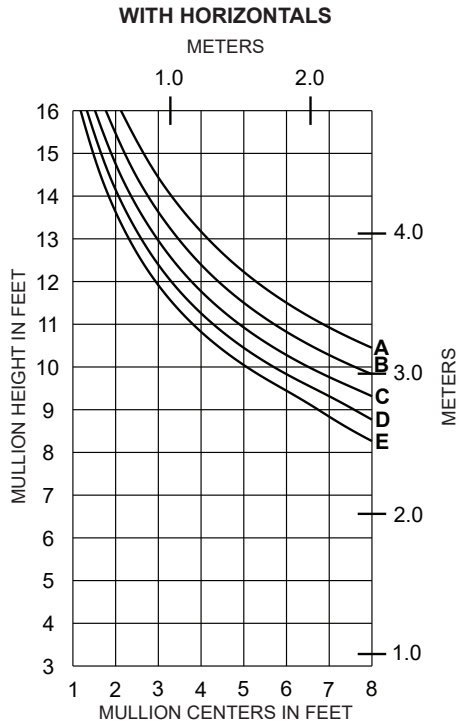


**521CG019 / 521CG318**  
(IR 521)

$I_A = 10.040 \text{ in}^4 (417.89 \times 10^4 \text{ mm}^4)$   
 $S_A = 3.923 \text{ in}^3 (64.29 \times 10^3 \text{ mm}^3)$

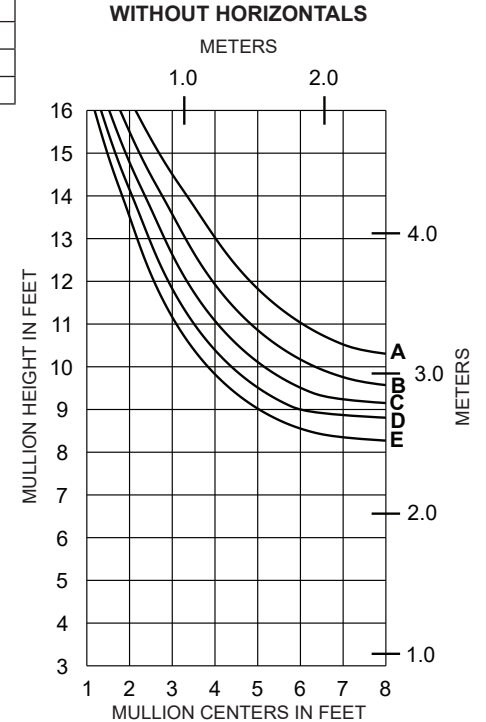


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)



**521CG019 / 521CG318**  
**WITH 575300 STEEL**  
(IR 521)

$I_A = 10.040 \text{ in}^4 (417.89 \times 10^4 \text{ mm}^4)$   
 $S_A = 3.923 \text{ in}^3 (64.29 \times 10^3 \text{ mm}^3)$   
 $I_S = 1.684 \text{ in}^4 (80.54 \times 10^4 \text{ mm}^4)$   
 $S_S = 0.804 \text{ in}^3 (15.37 \times 10^3 \text{ mm}^3)$

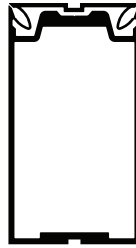
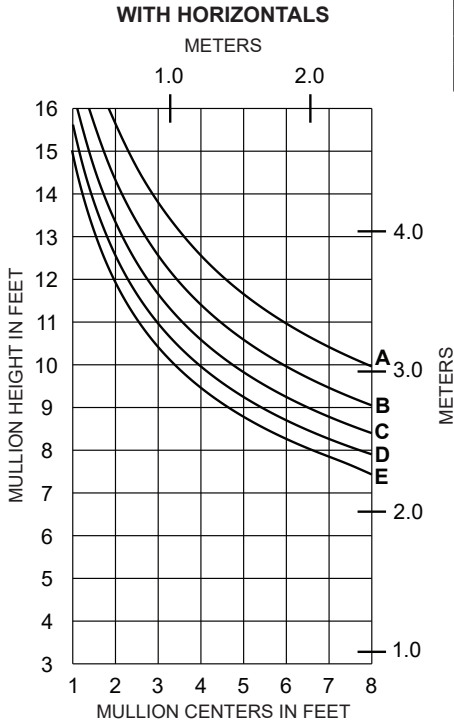


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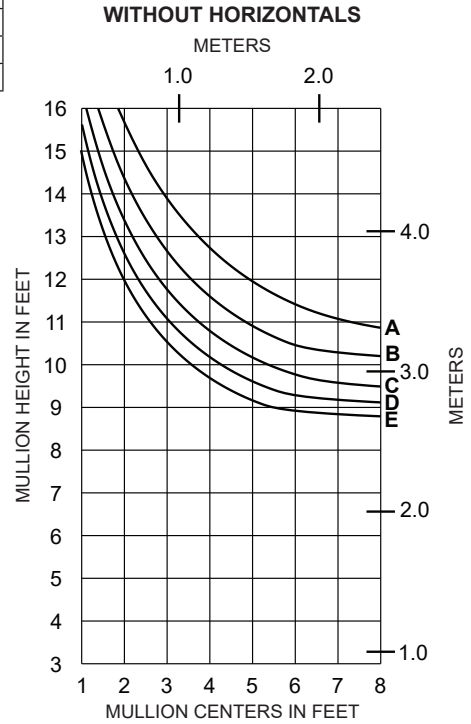


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

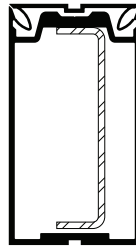
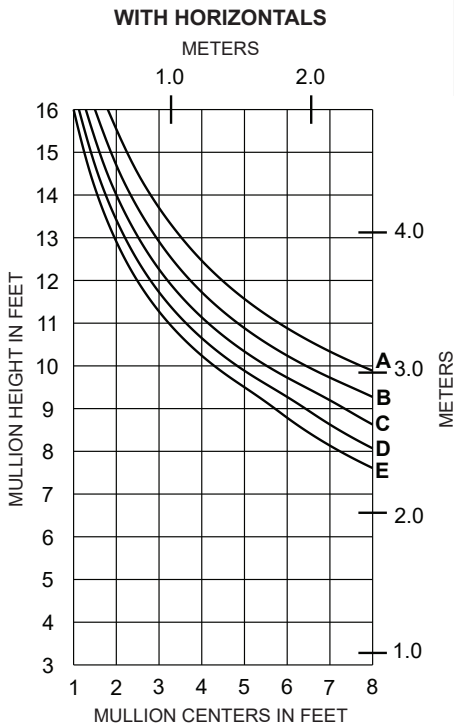


**521CG264 / 521CG064**  
(IR 521)

$I_A = 7.761 \text{ in}^4 (323.04 \times 10^4 \text{ mm}^4)$   
 $S_A = 3.079 \text{ in}^3 (50.46 \times 10^3 \text{ mm}^3)$

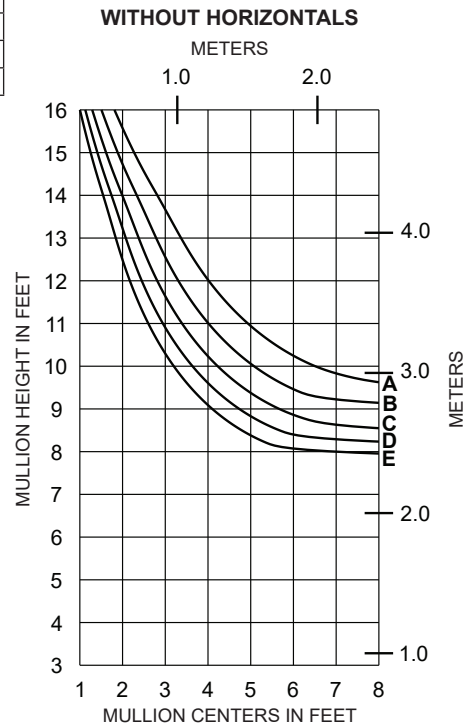


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)



**521CG264 / 521CG064**  
**WITH 575300 STEEL**  
(IR 521)

$I_A = 7.761 \text{ in}^4 (323.04 \times 10^4 \text{ mm}^4)$   
 $S_A = 3.079 \text{ in}^3 (50.46 \times 10^3 \text{ mm}^3)$   
 $I_S = 1.684 \text{ in}^4 (80.54 \times 10^4 \text{ mm}^4)$   
 $S_S = 0.804 \text{ in}^3 (15.37 \times 10^3 \text{ mm}^3)$

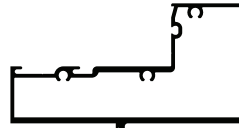
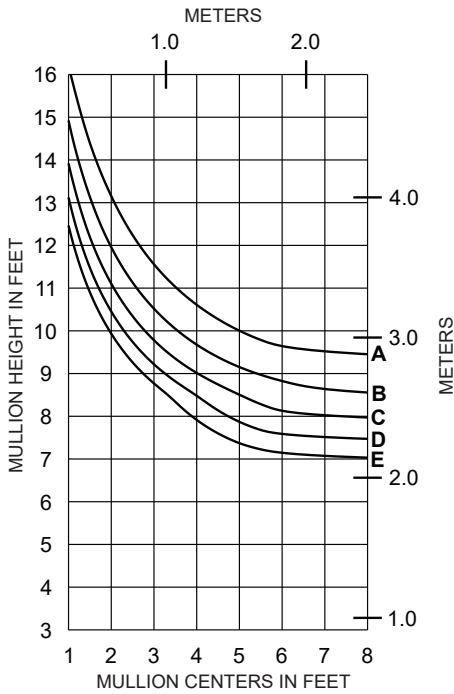


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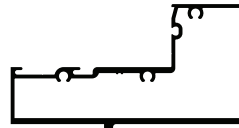
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

**521CG020**  
SINGLE SPAN



**521CG120**  
(IR 521)

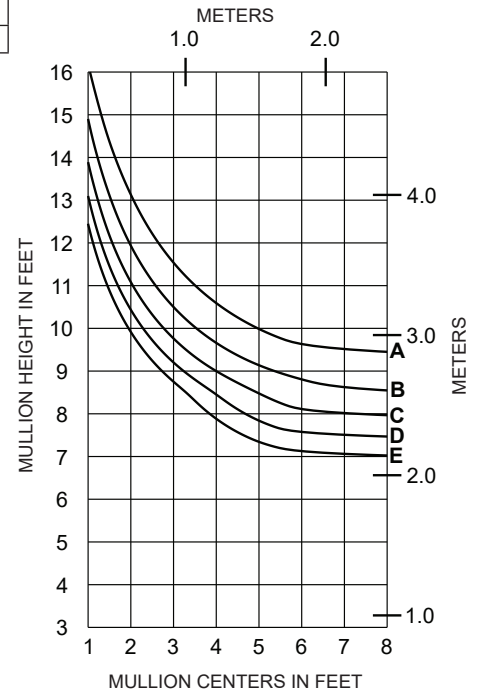
$I_A = 4.302 \text{ in}^4 (179.06 \times 10^4 \text{ mm}^4)$   
 $S_A = 1.157 \text{ in}^3 (18.96 \times 10^3 \text{ mm}^3)$



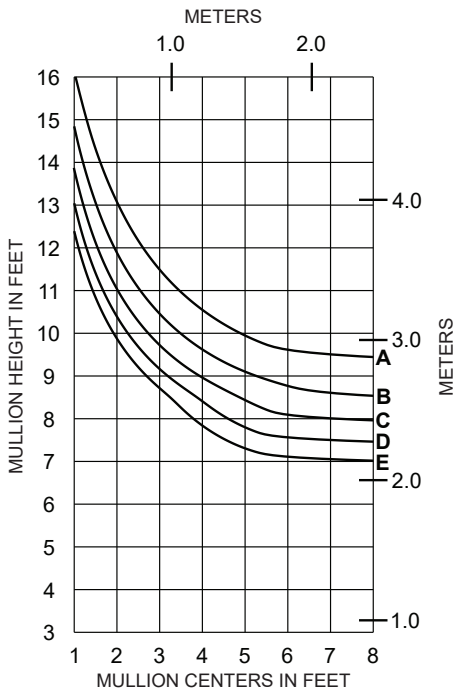
**521CG020**  
(IR 521)

$I_A = 4.146 \text{ in}^4 (183.81 \times 10^4 \text{ mm}^4)$   
 $S_A = 1.585 \text{ in}^3 (25.97 \times 10^3 \text{ mm}^3)$

**521CG120**  
SINGLE SPAN



**521CG320**  
SINGLE SPAN



**521CG079**  
(IR 521)

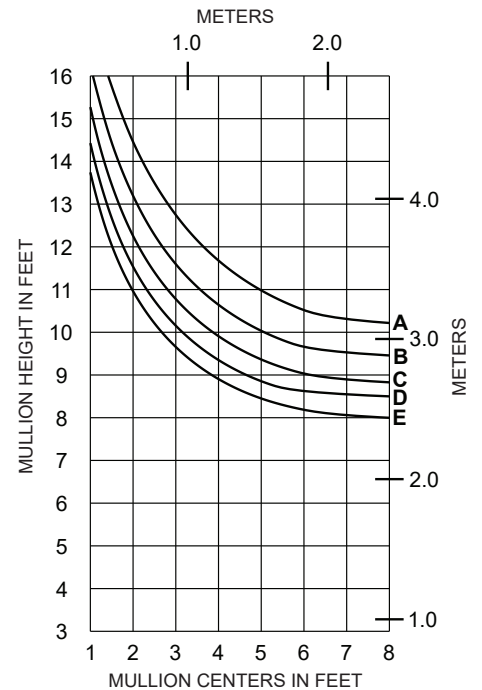
$I_A = 5.946 \text{ in}^4 (247.49 \times 10^4 \text{ mm}^4)$   
 $S_A = 2.299 \text{ in}^3 (37.67 \times 10^3 \text{ mm}^3)$



**521CG320**  
(IR 521)

$I_A = 4.373 \text{ in}^4 (182.02 \times 10^4 \text{ mm}^4)$   
 $S_A = 1.552 \text{ in}^3 (25.43 \times 10^3 \text{ mm}^3)$

**521CG079**  
SINGLE SPAN

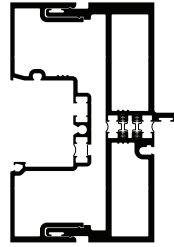
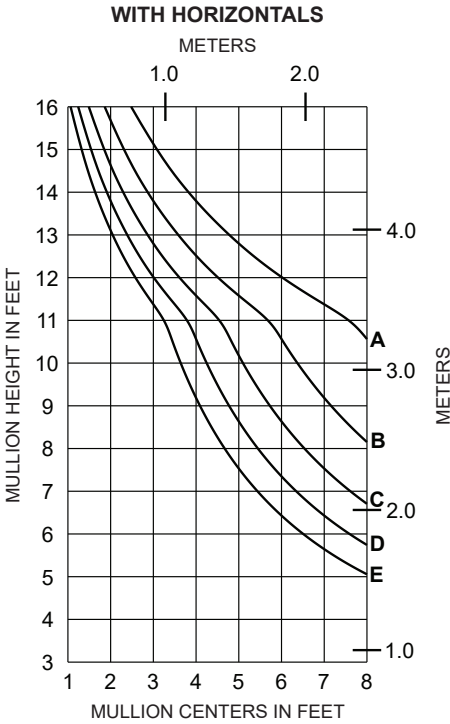


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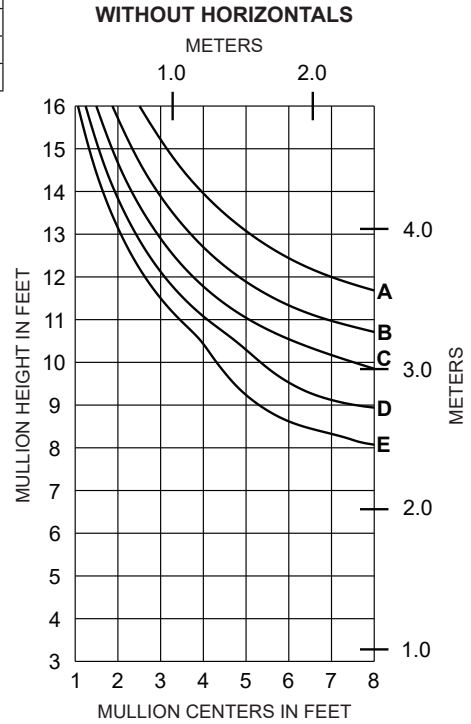


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

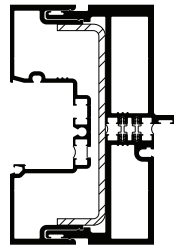
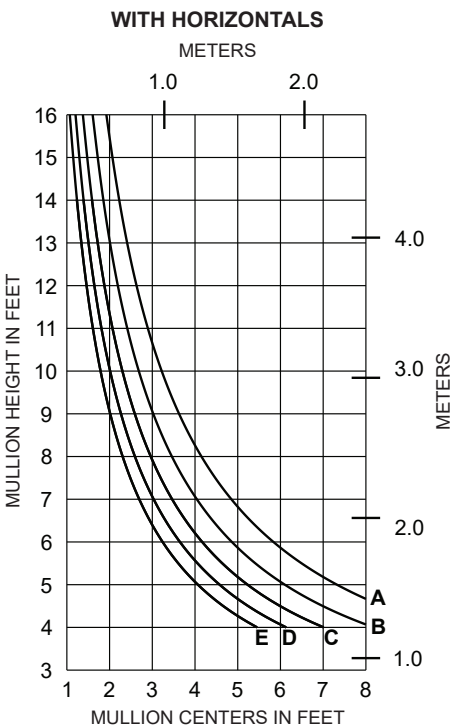


**521TCG610 / 521TCG218 (IR 521T)**

WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505



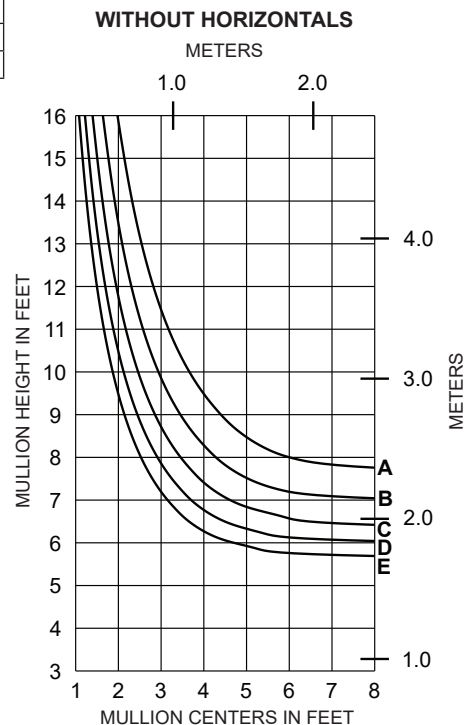
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)



**521TCG610 / 521TCG218 WITH 575300 STEEL (IR 521T)**

$I_s = 1.684 \text{ in}^4 (80.54 \times 10^4 \text{ mm}^4)$   
 $S_s = 0.804 \text{ in}^3 (15.37 \times 10^3 \text{ mm}^3)$

WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

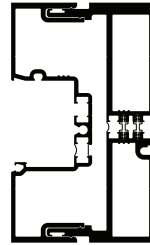
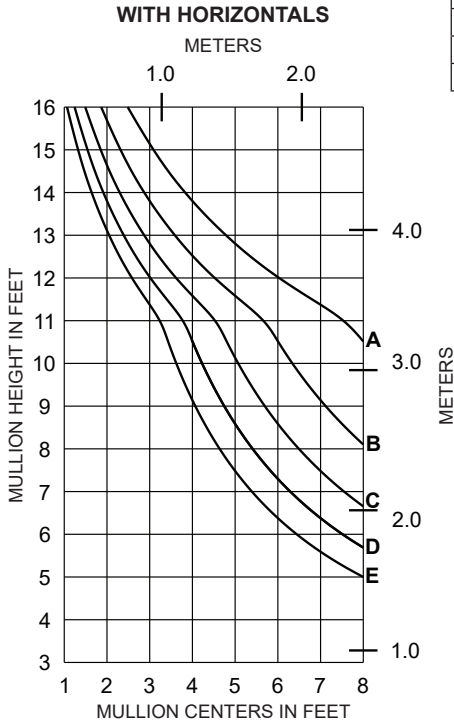


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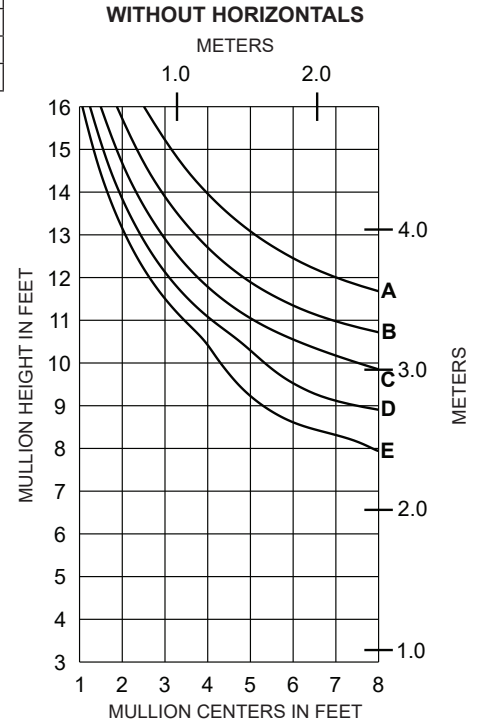


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

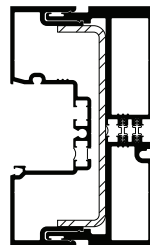
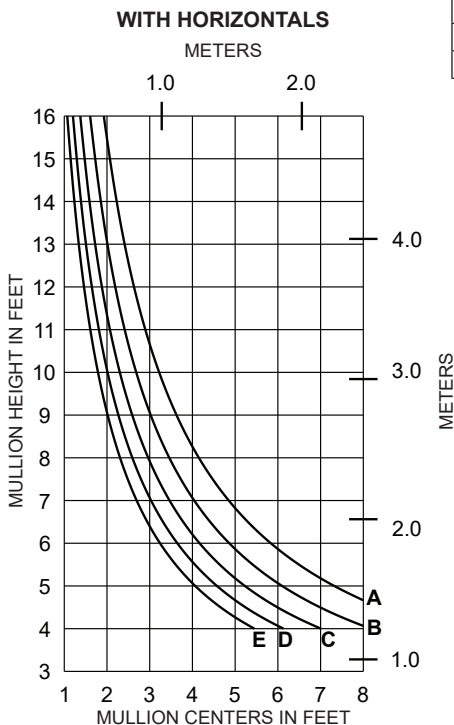


**521TCG264 / 521TCG064**  
(IR 521T)

WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505



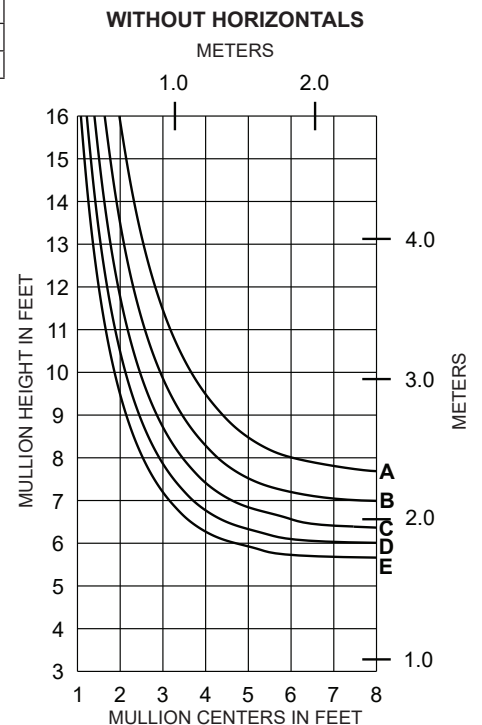
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)



**521TCG610 / 521TCG518**  
**WITH 575300 STEEL**  
(IR 521T)

$I_s = 1.684 \text{ in}^4 (80.54 \times 10^4 \text{ mm}^4)$   
 $S_s = 0.804 \text{ in}^3 (15.37 \times 10^3 \text{ mm}^3)$

WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

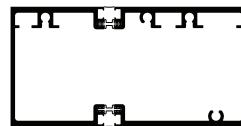
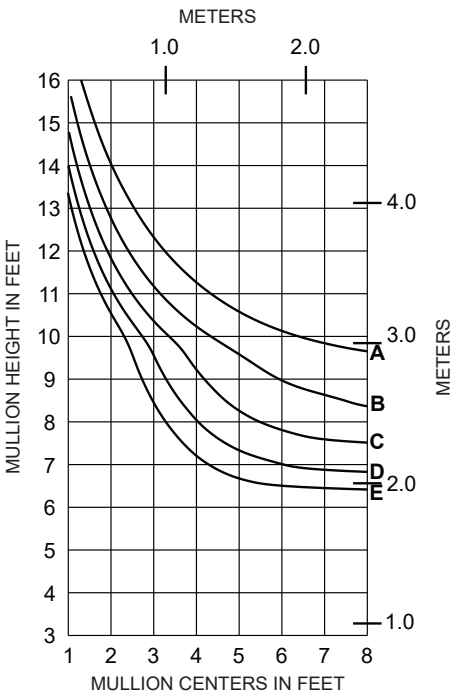
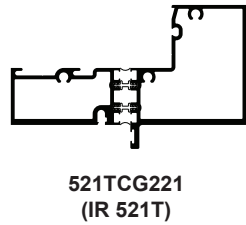
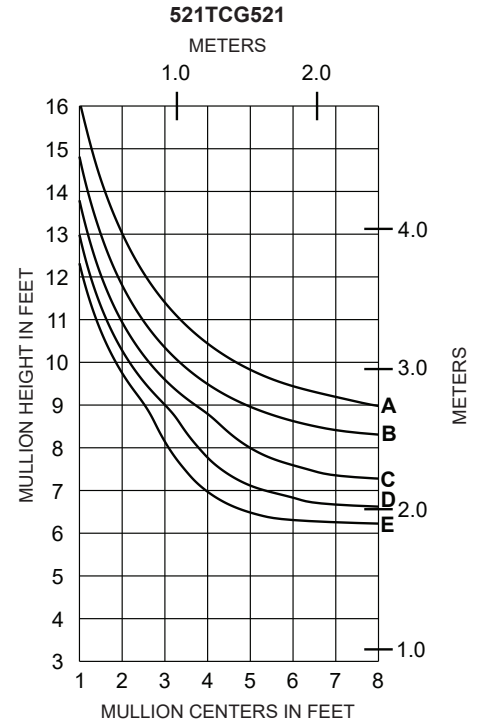
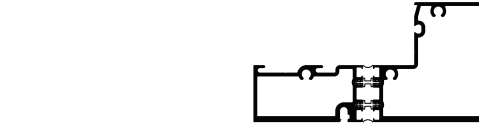
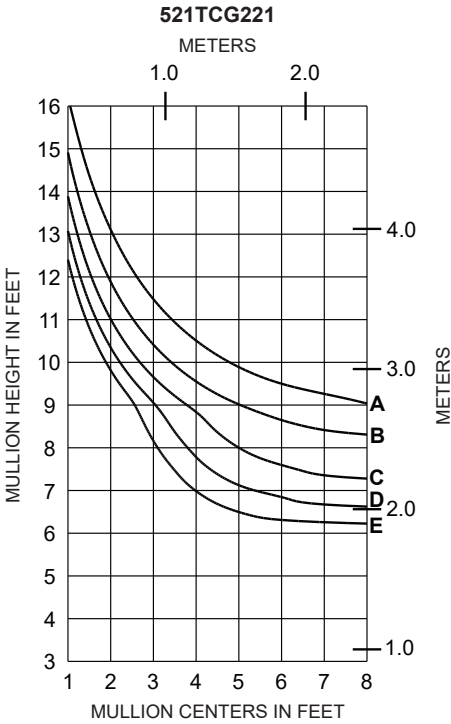


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	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)



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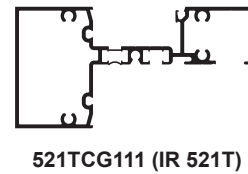
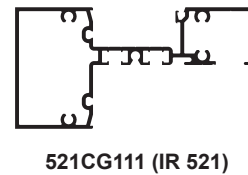
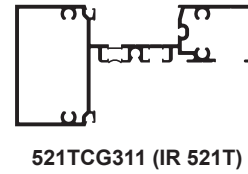
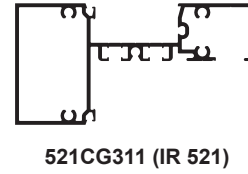
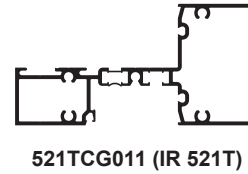
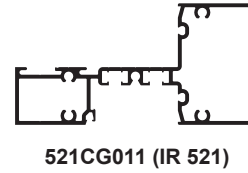
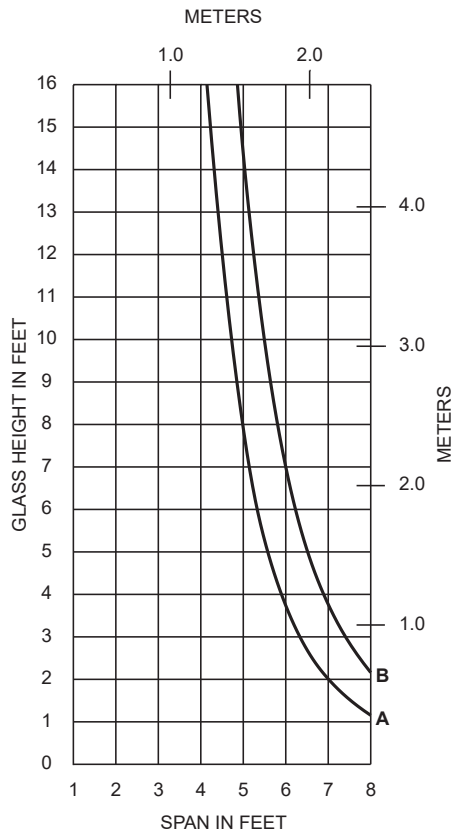
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Horizontal or deadload limitations are based upon 1/8" (3.2), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1-5/16" (33.3) thick insulated impact resistant glass supported on two setting blocks placed at the loading points shown.

**NOTE:** Chart is for NON-THERMAL and THERMAL members.

**A = (1/4 POINT LOADING)**  
**B = (1/8 POINT LOADING)**



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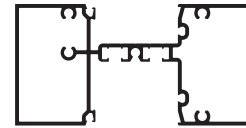
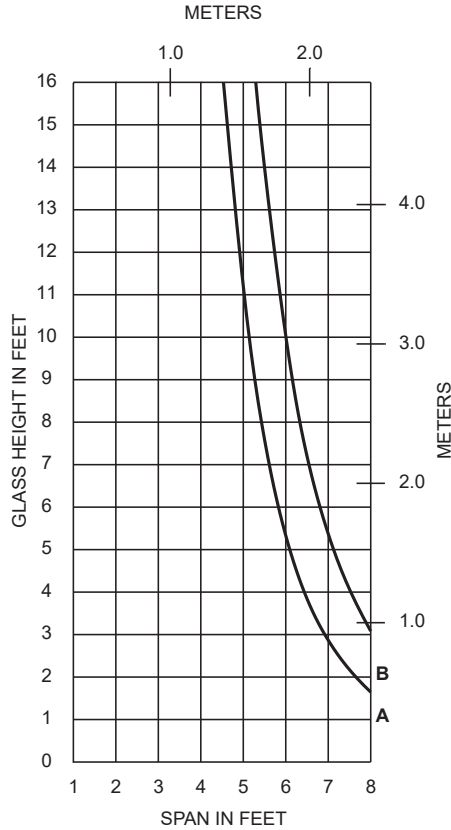
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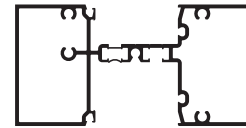
Horizontal or deadload limitations are based upon 1/8" (3.2), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1-5/16" (33.3) thick insulated impact resistant glass supported on two setting blocks placed at the loading points shown.

**NOTE:** Chart is for NON-THERMAL and THERMAL members.

**A = (1/4 POINT LOADING)**  
**B = (1/8 POINT LOADING)**



**521CG211 (IR 521)**



**521TCG211 (IR 521T)**

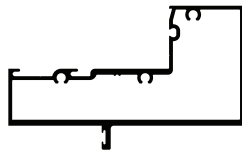
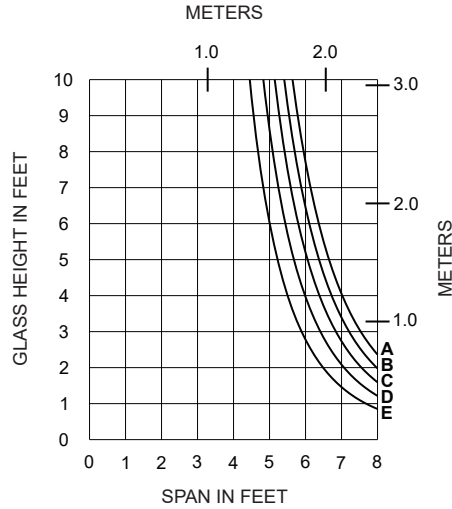
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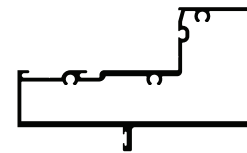
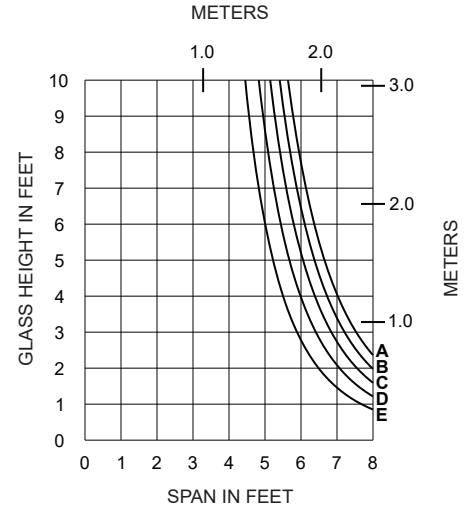


Horizontal or deadload limitations are based upon 1/16" (1.6), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1-5/16" (33.3) thick insulated impact resistant glass supported on two setting blocks placed at the loading points shown.

- A = (1/4 POINT LOADING)
- B = (1/6 POINT LOADING)
- C = (1/8 POINT LOADING)
- D = (1/10 POINT LOADING)
- E = (1/12 POINT LOADING)



521CG020 (IR 521)



521CG120 (IR 521)

SETTING BLOCK LOCATIONS EXAMPLE (96" DLO)		
CURVE DESIGNATION	OFFSET	DISTANCE FROM JAMBS
A	1/4 POINT	24"
B	1/6 POINT	16"
C	1/8 POINT	12"
D	1/10 POINT	9"
E	1/12 POINT	8"

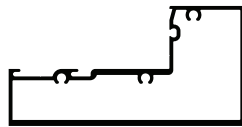
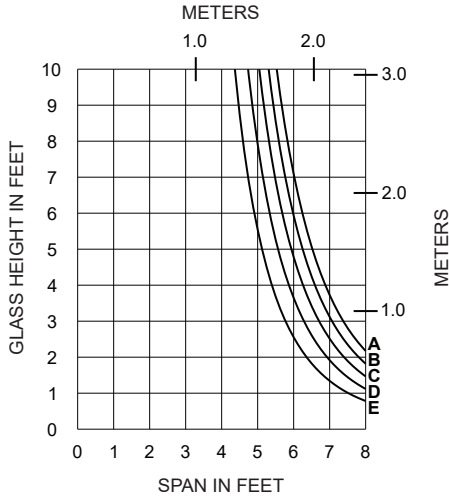
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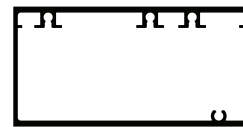
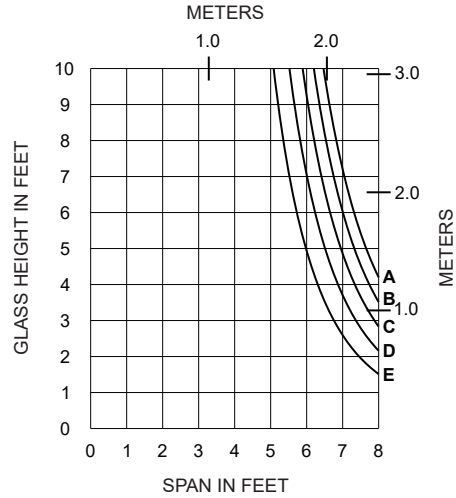


Horizontal or deadload limitations are based upon 1/16" (1.6), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1-5/16" (33.3) thick insulated impact resistant glass supported on two setting blocks placed at the loading points shown.

- A = (1/4 POINT LOADING)
- B = (1/6 POINT LOADING)
- C = (1/8 POINT LOADING)
- D = (1/10 POINT LOADING)
- E = (1/12 POINT LOADING)



521CG320 (IR 521)



521CG079 (IR 521)

SETTING BLOCK LOCATIONS EXAMPLE (96" DLO)		
CURVE DESIGNATION	OFFSET	DISTANCE FROM JAMBS
A	1/4 POINT	24"
B	1/6 POINT	16"
C	1/8 POINT	12"
D	1/10 POINT	9"
E	1/12 POINT	8"

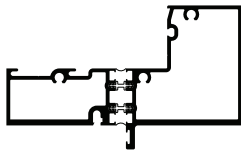
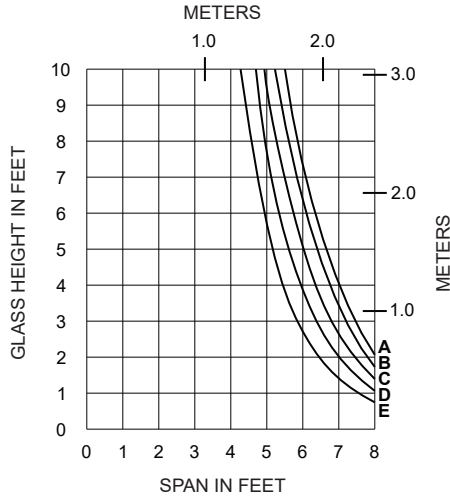
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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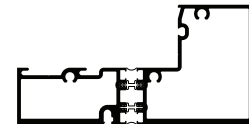
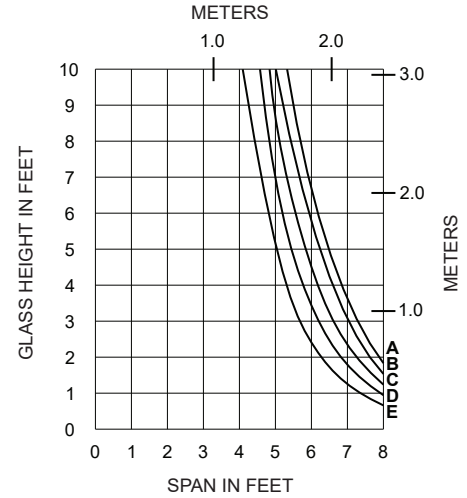


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- A = (1/4 POINT LOADING)**
- B = (1/6 POINT LOADING)**
- C = (1/8 POINT LOADING)**
- D = (1/10 POINT LOADING)**
- E = (1/12 POINT LOADING)**



521TCG221 (IR 521T)



521TCG521 (IR 521T)

SETTING BLOCK LOCATIONS EXAMPLE (96" DLO)		
CURVE DESIGNATION	OFFSET	DISTANCE FROM JAMBS
A	1/4 POINT	24"
B	1/6 POINT	16"
C	1/8 POINT	12"
D	1/10 POINT	9"
E	1/12 POINT	8"

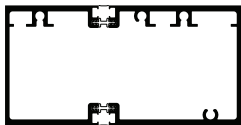
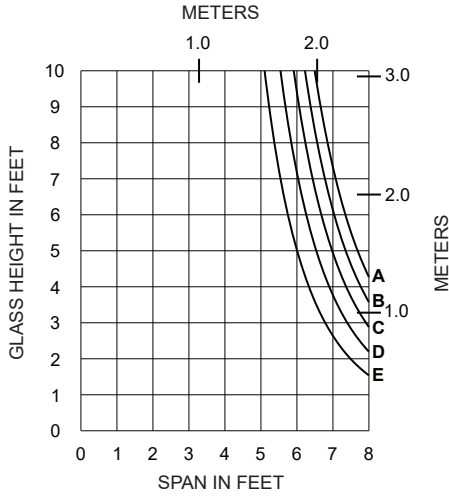
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- A = (1/4 POINT LOADING)**
- B = (1/6 POINT LOADING)**
- C = (1/8 POINT LOADING)**
- D = (1/10 POINT LOADING)**
- E = (1/12 POINT LOADING)**



**521TCG079 (IR 521T)**

SETTING BLOCK LOCATIONS EXAMPLE (96" DLO)		
CURVE DESIGNATION	OFFSET	DISTANCE FROM JAMBS
A	1/4 POINT	24"
B	1/6 POINT	16"
C	1/8 POINT	12"
D	1/10 POINT	9"
E	1/12 POINT	8"

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