



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
- 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
- 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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FIELD GLAZED FRAMING DETAILS OUTSIDE GLAZED	
(OUTSIDE GLAZED - STOPS UP - WET GLAZED)	4-9
(OUTSIDE GLAZED - STOPS UP - DRY GLAZED)	10-15
FIELD GLAZED FRAMING DETAILS INSIDE GLAZED	
(INSIDE GLAZED - STOPS DOWN - WET GLAZED)	16-21
(INSIDE GLAZED - STOPS DOWN - DRY GLAZED)	22-27
PRE-GLAZED FRAMING DETAILS OUTSIDE GLAZED	
(OUTSIDE GLAZED - STOPS UP - WET GLAZED)	28-32
(OUTSIDE GLAZED - STOPS UP - DRY GLAZED)	33-37
PRE-GLAZED FRAMING DETAILS INSIDE GLAZED	
(INSIDE GLAZED - STOPS UP - WET GLAZED)	38-42
(INSIDE GLAZED - STOPS UP - DRY GLAZED)	43-47
ENTRANCE FRAMING DETAILS	48-50
WIND LOAD CHARTS	51-73
DEADLOAD CHARTS	74-79
THERMAL CHARTS	80-86

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:

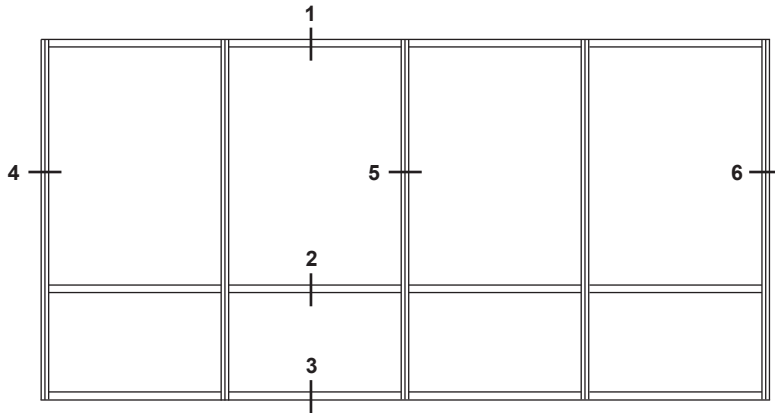
- m – meter
- cm – centimeter
- mm – millimeter
- s – second
- Pa – pascal
- MPa – megapascal

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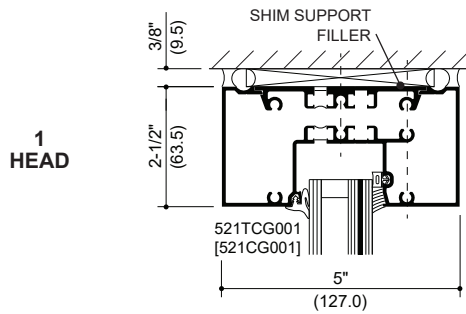
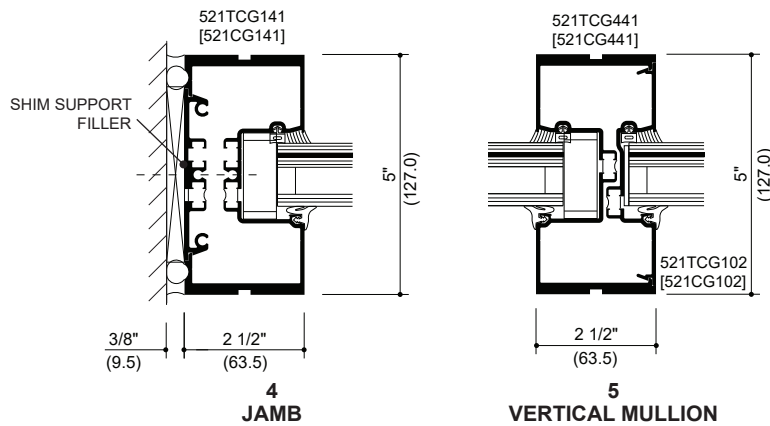
ELEVATION IS NUMBER KEYED TO DETAILS



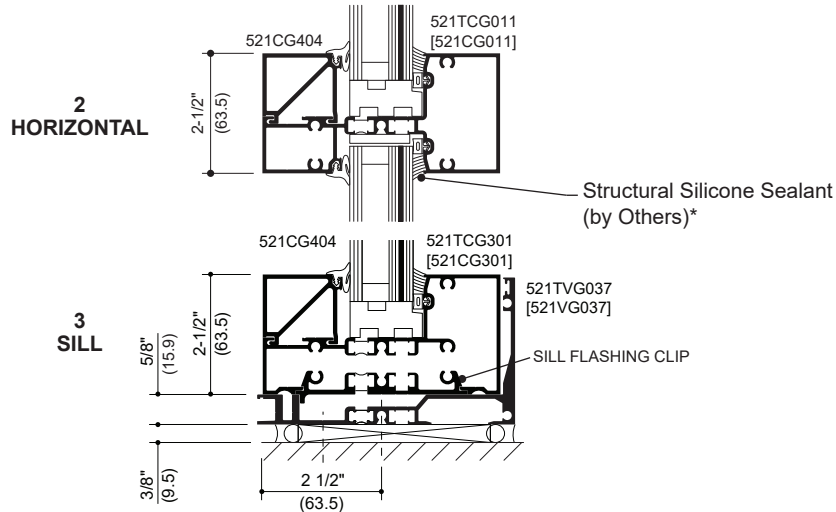
IR 521 IsoLock®
NON-THERMAL



IR 521T Single IsoLock®
THERMAL BREAK (SHOWN)



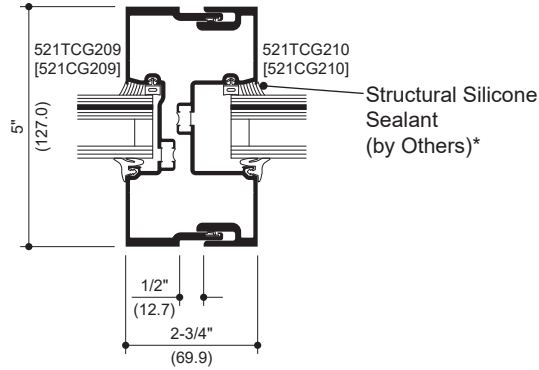
1-5/16" INFILL
(FIELD GLAZED - WET GLAZED)



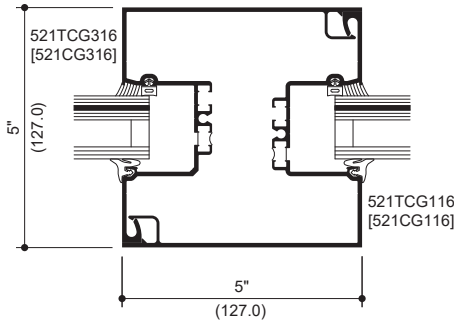
* INSTALLER NOTE: Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

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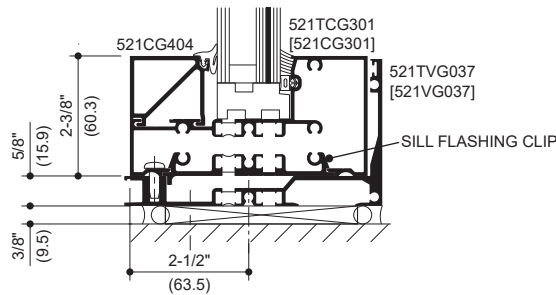
1-5/16" INFILL (FIELD GLAZED - WET GLAZED)



EXPANSION MULLION



5" x 5" MULLION



PINNED HORIZONTAL TO SILL FLASHING

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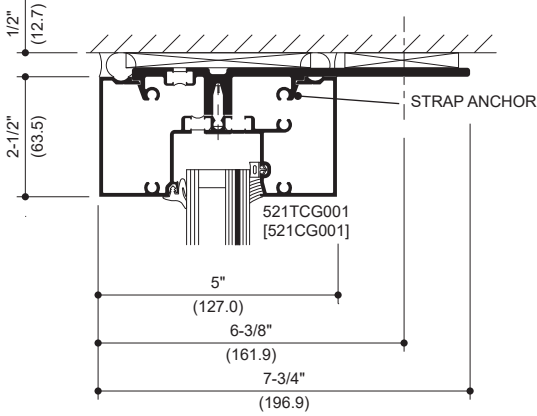
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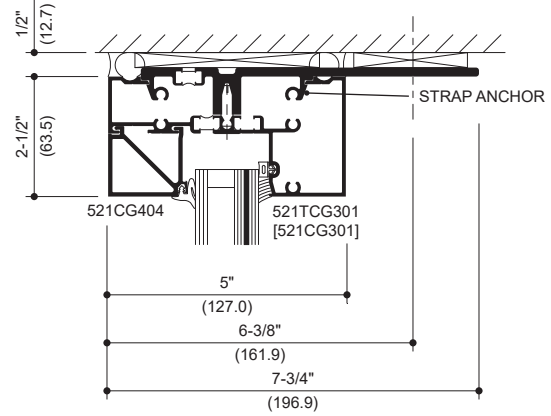


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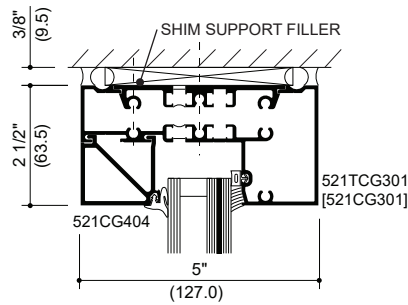
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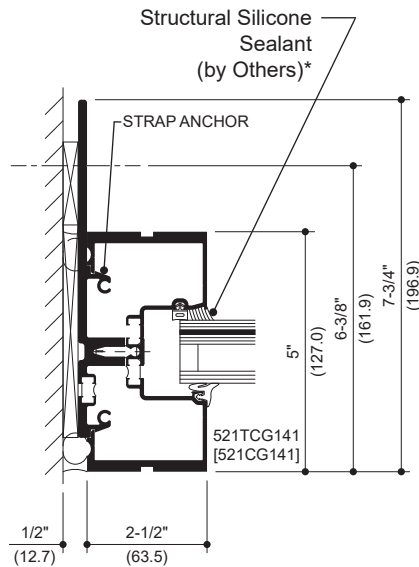
HEAD



OPTIONAL HEAD WITH STOP



OPTIONAL HEAD WITH STOP



JAMB

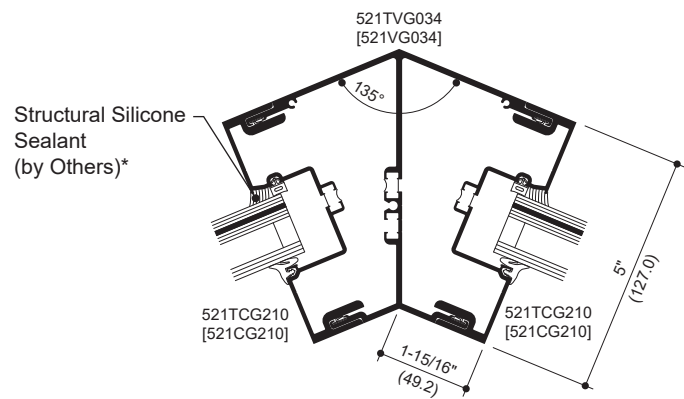
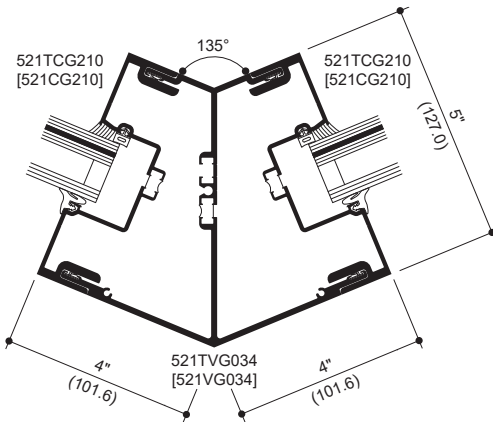
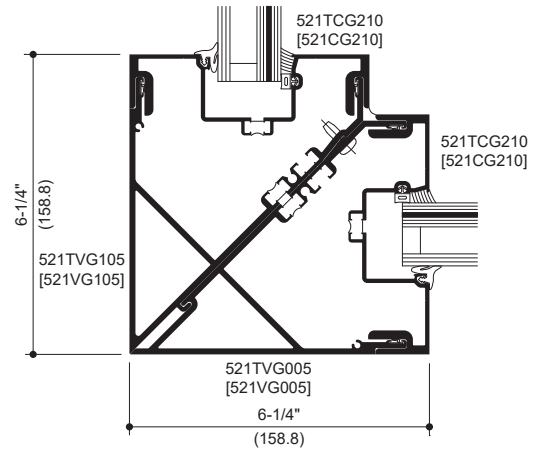
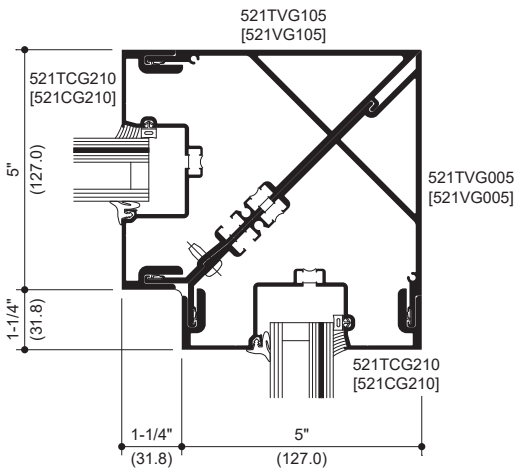
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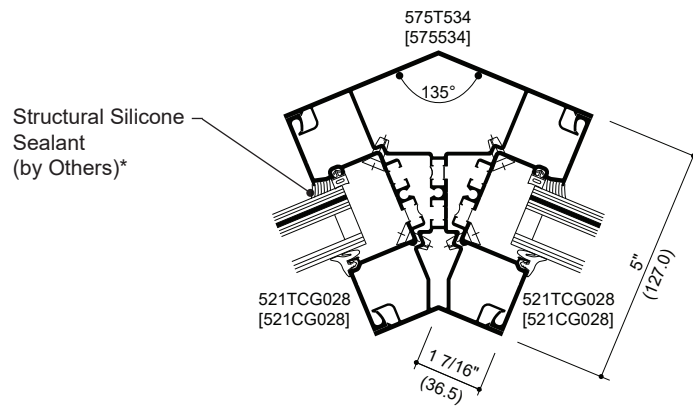
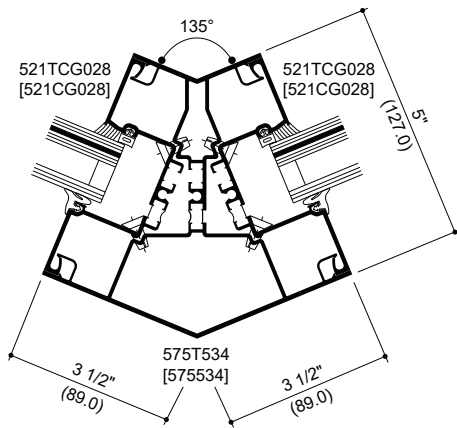
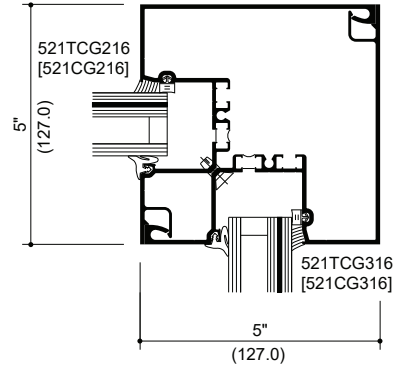
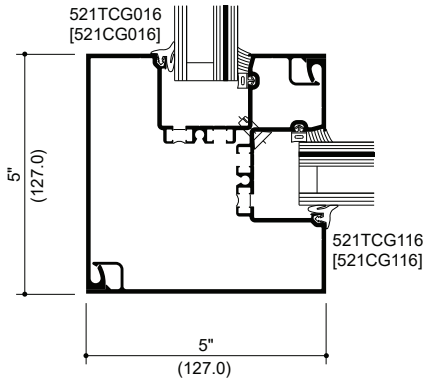
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1-5/16" INFILL (FIELD GLAZED - WET GLAZED)

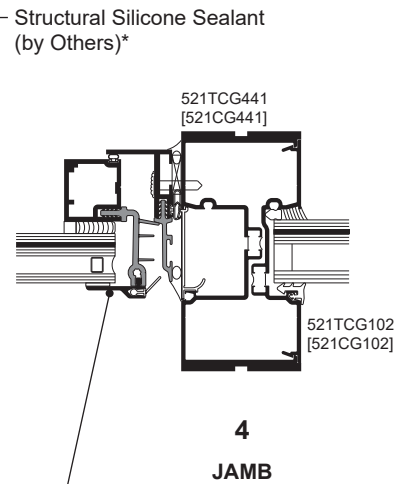
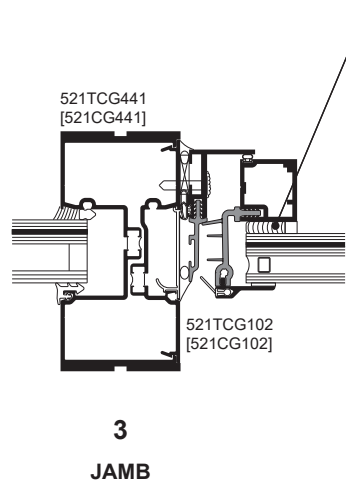
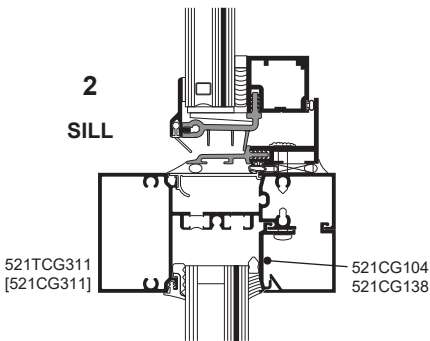
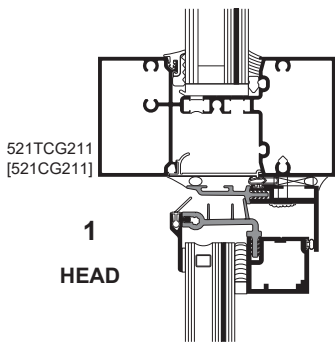
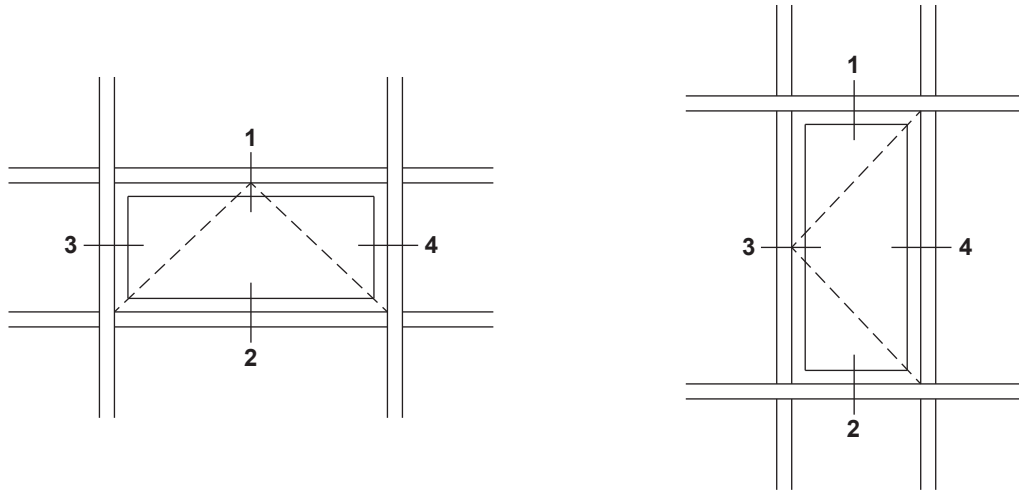


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1-5/16" INFILL (FIELD GLAZED - WET GLAZED)



Structural Silicone Sealant (by Others)*

Trim Cover available in #29 Black anodized finish only

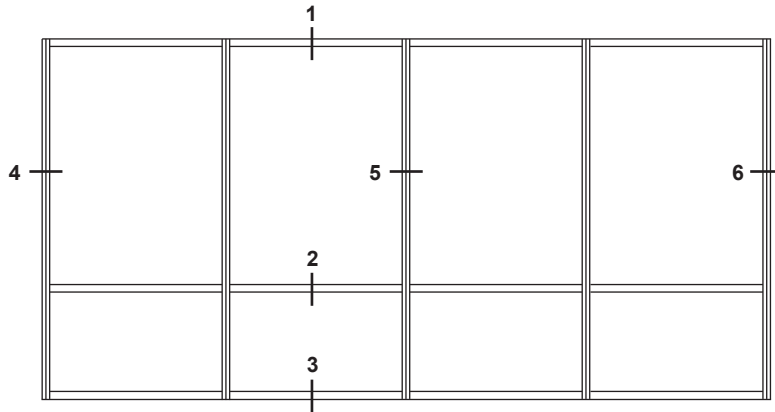
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 HURRICANE RESISTANT PRODUCT

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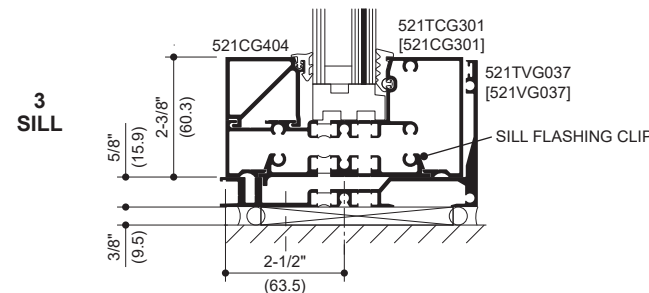
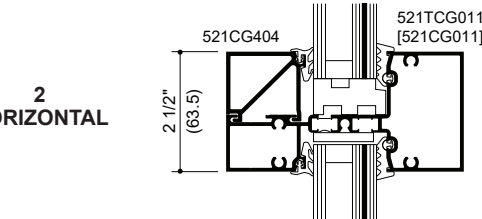
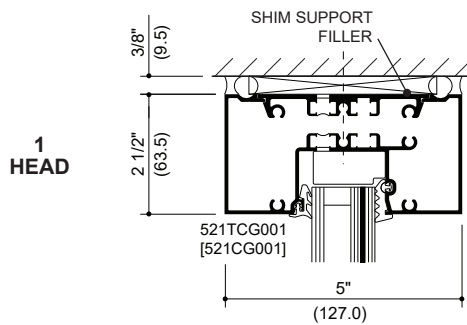
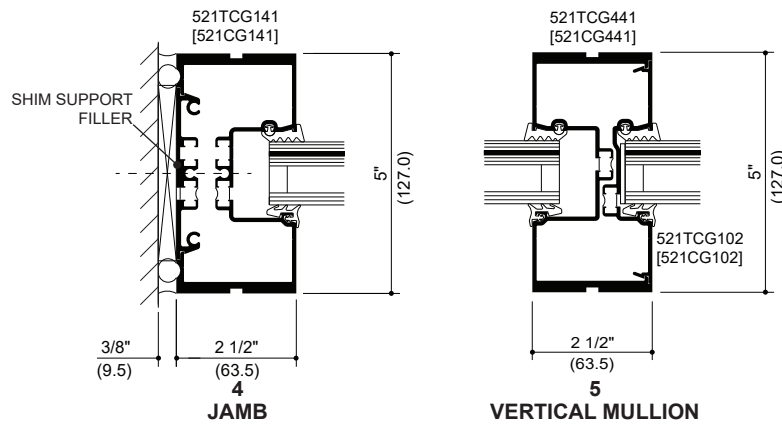
ELEVATION IS NUMBER KEYED TO DETAILS



IR 521 IsoLock®
NON-THERMAL



IR 521T Single IsoLock®
THERMAL BREAK (SHOWN)



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

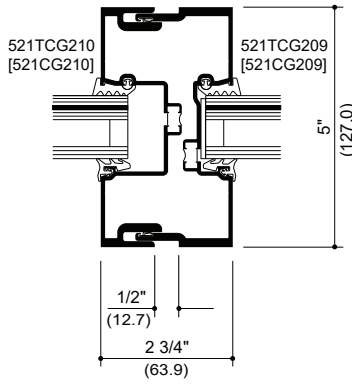
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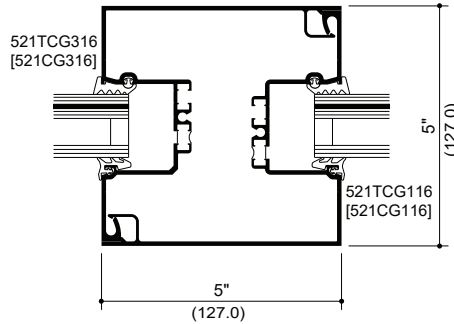


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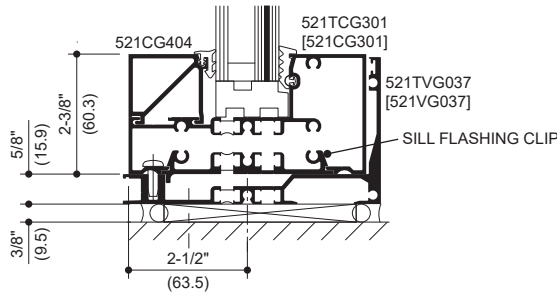
1-5/16" INFILL (FIELD GLAZED - DRY GLAZED)



EXPANSION MULLION



5" x 5" MULLION



PINNED HORIZONTAL TO SILL FLASHING

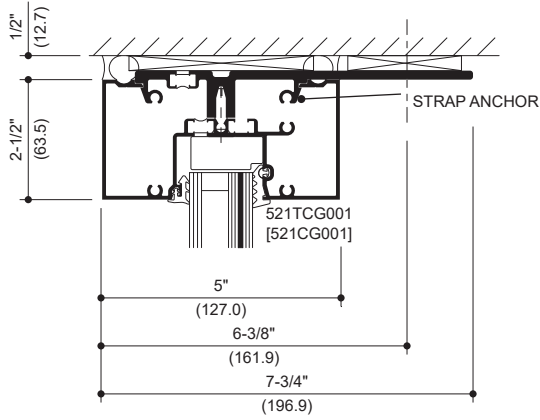
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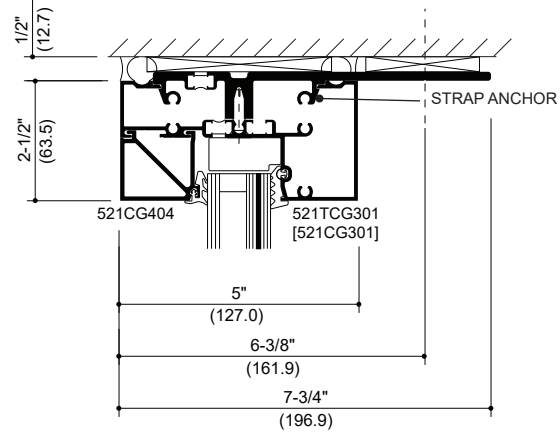


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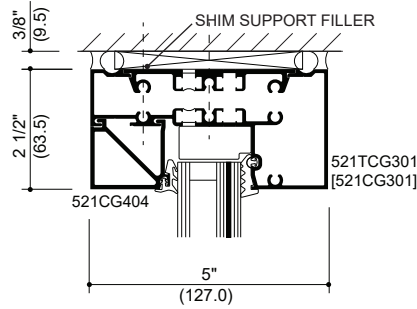
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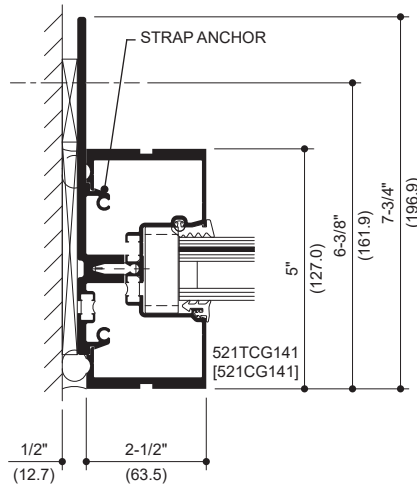
HEAD



OPTIONAL HEAD WITH STOP



OPTIONAL HEAD WITH STOP



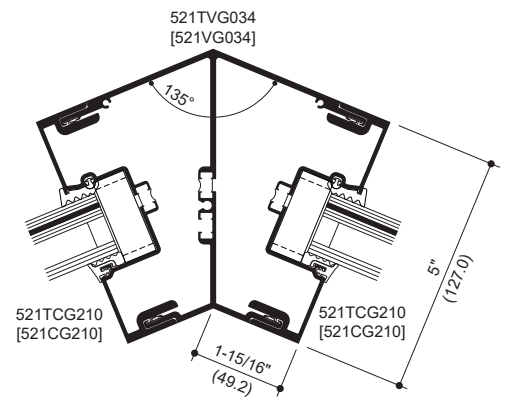
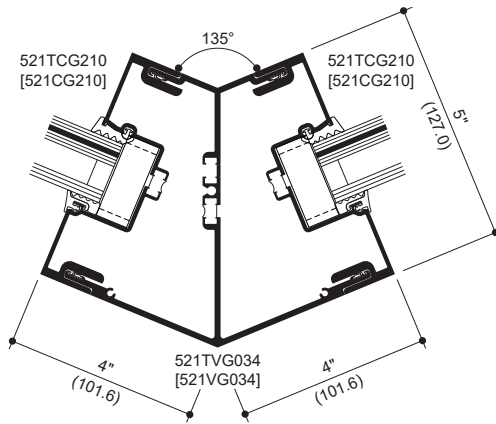
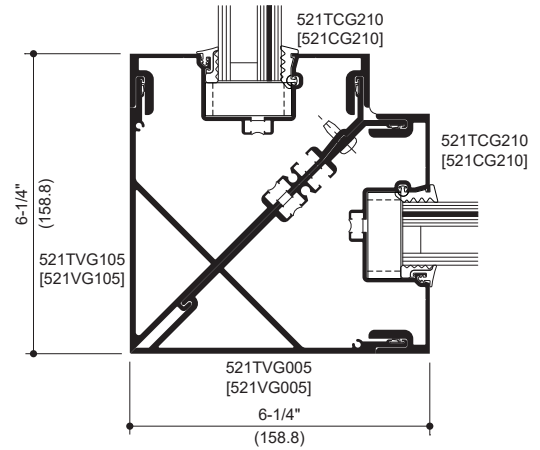
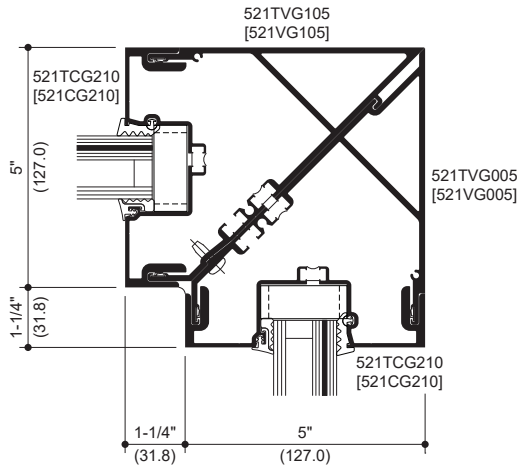
JAMB

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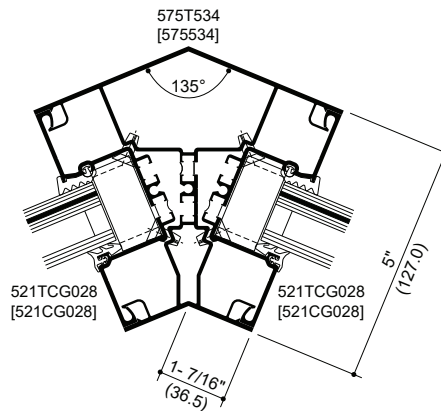
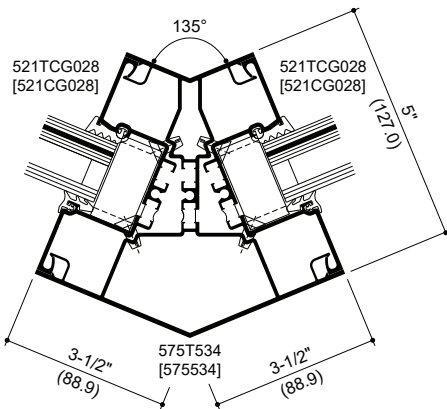
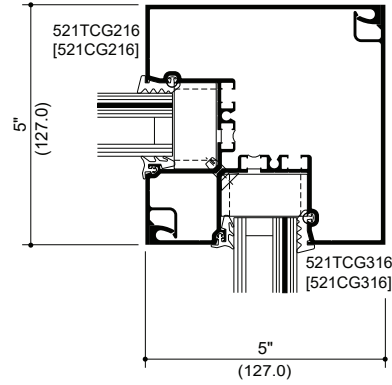
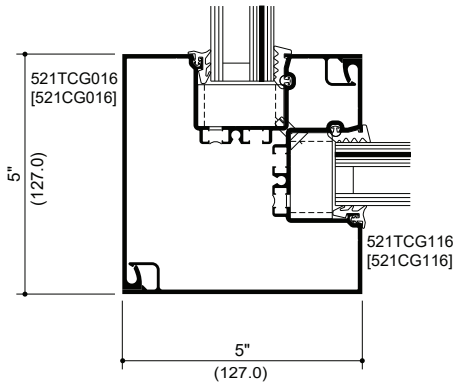
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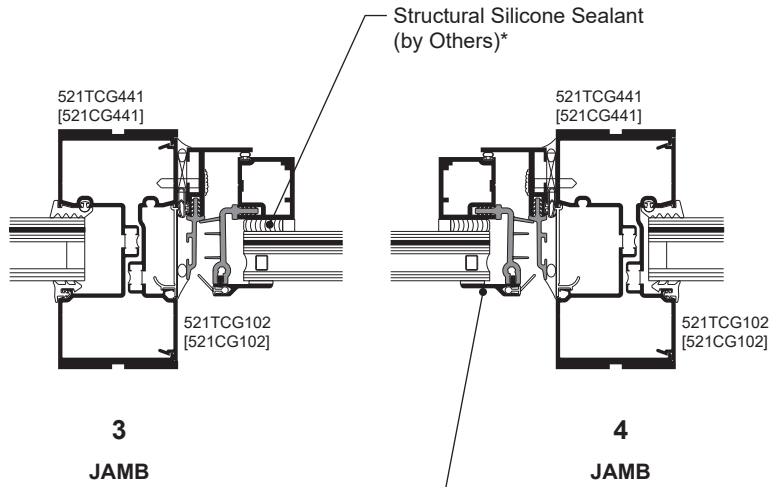
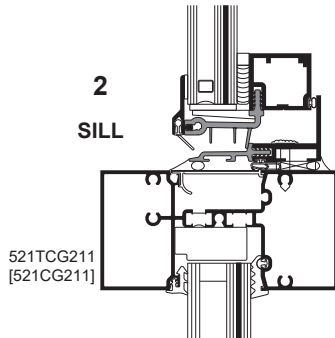
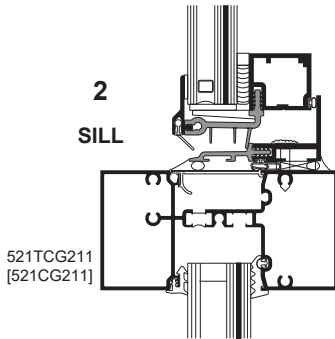
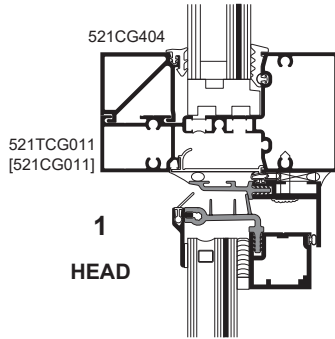
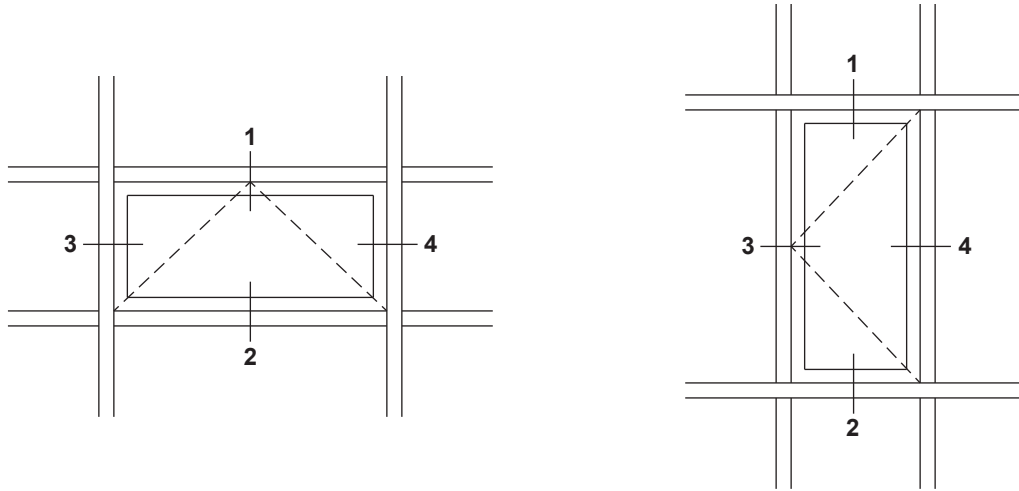
1-5/16" INFILL (FIELD GLAZED - DRY GLAZED)



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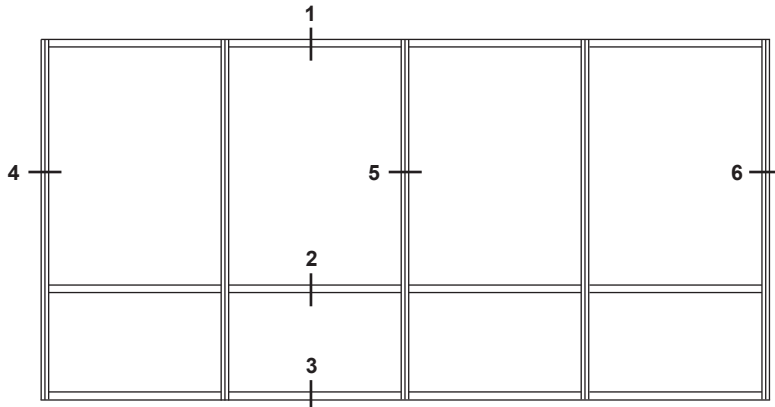
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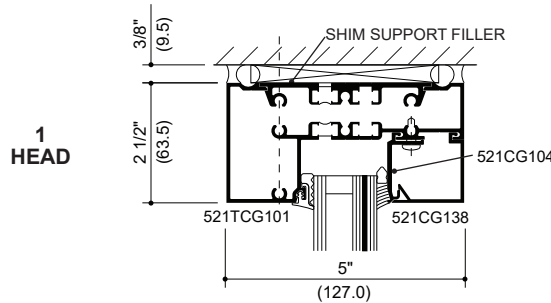
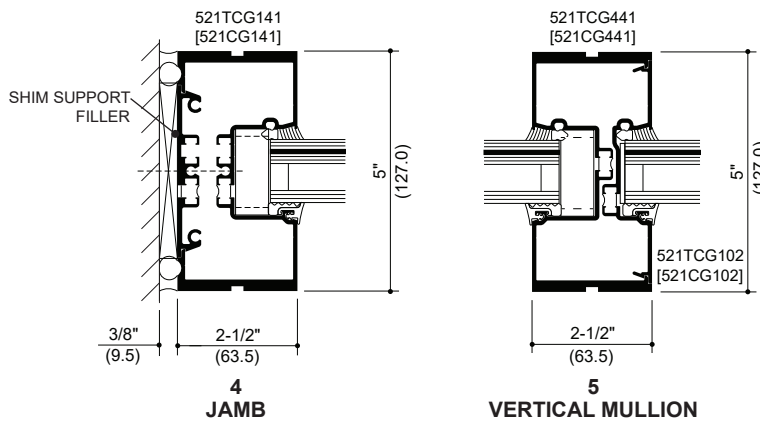
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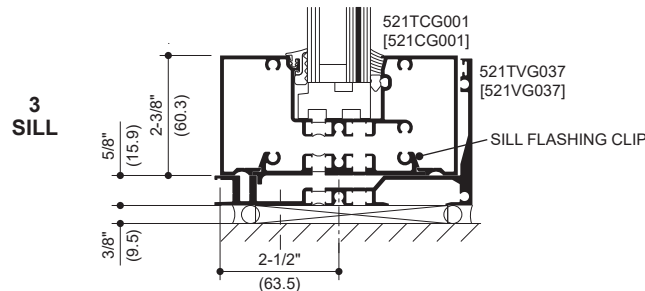
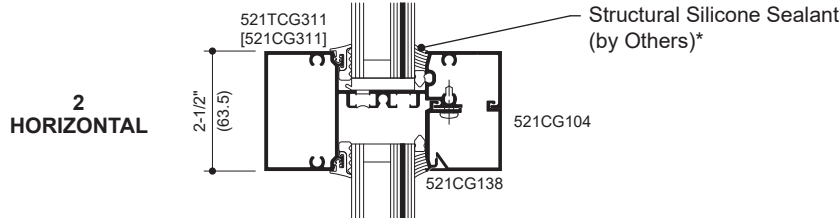
IR 521 IsoLock®
NON-THERMAL



IR 521T Single IsoLock®
THERMAL BREAK (SHOWN)



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

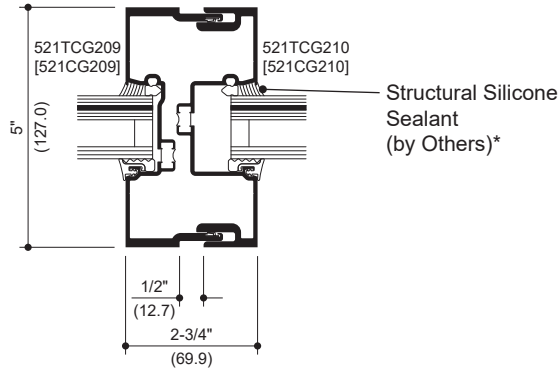


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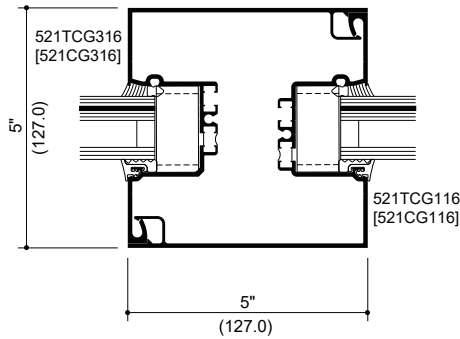
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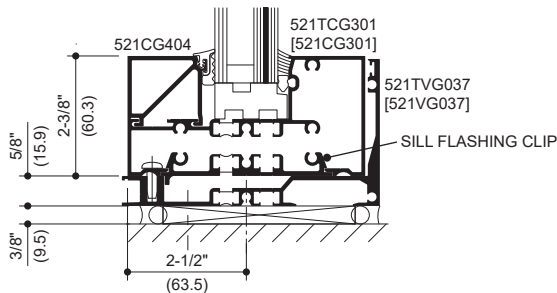
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EXPANSION MULLION



5" x 5" MULLION



PINNED HORIZONTAL TO SILL FLASHING

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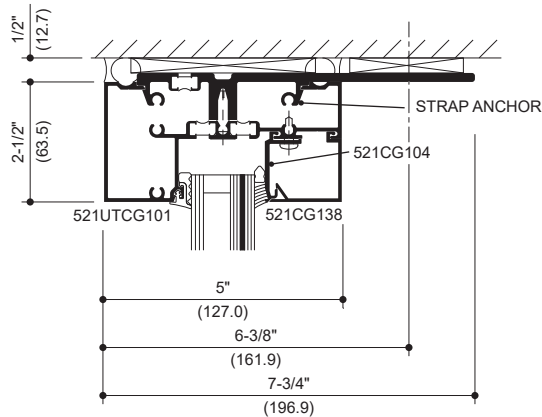
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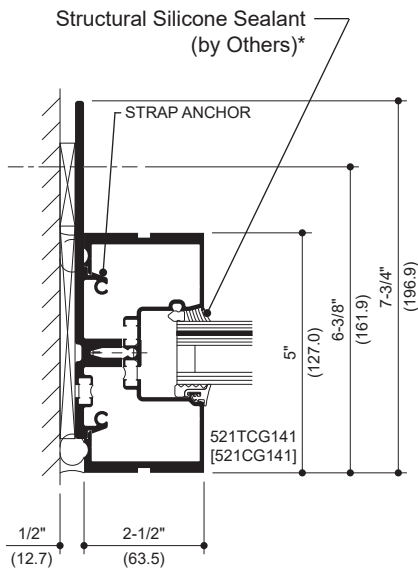


Additional information and CAD details are available at www.kawneer.com

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



HEAD



JAMB

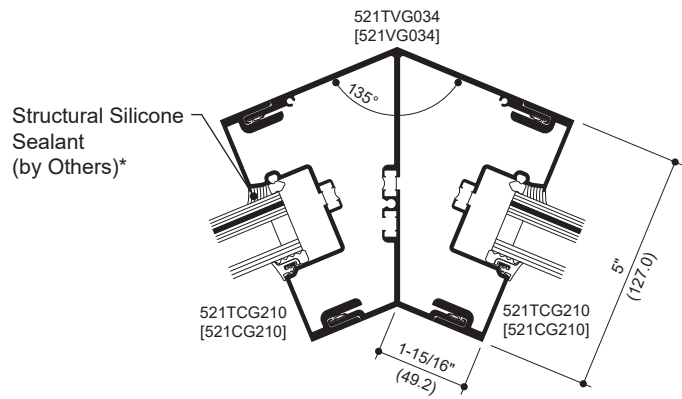
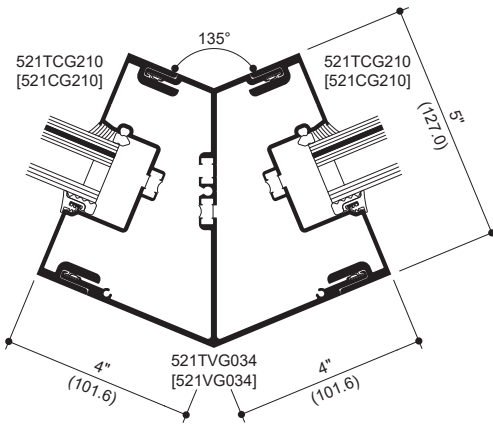
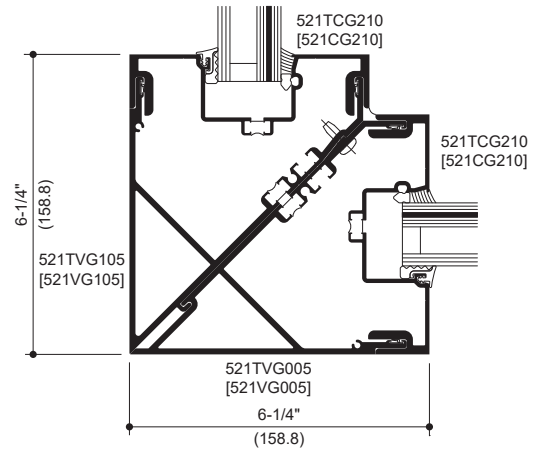
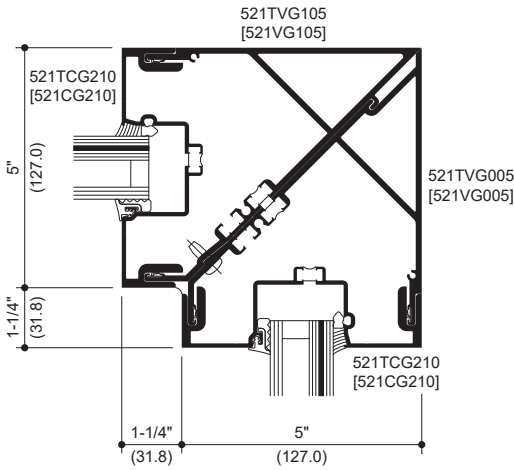
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1-5/16" INFILL (FIELD GLAZED - WET GLAZED)



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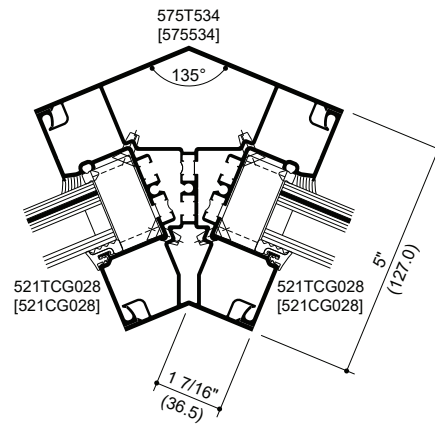
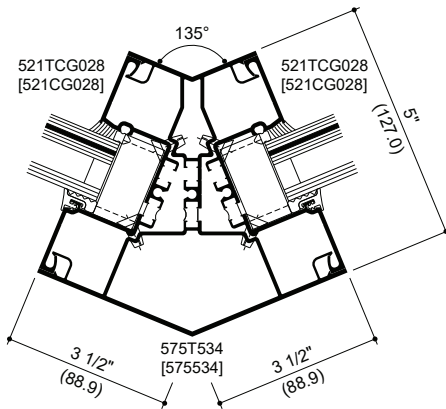
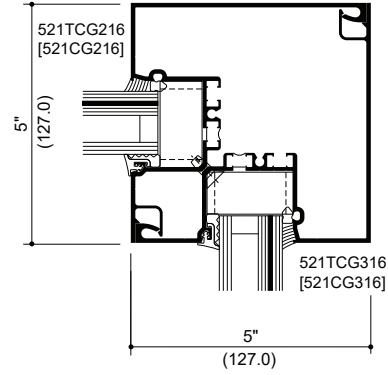
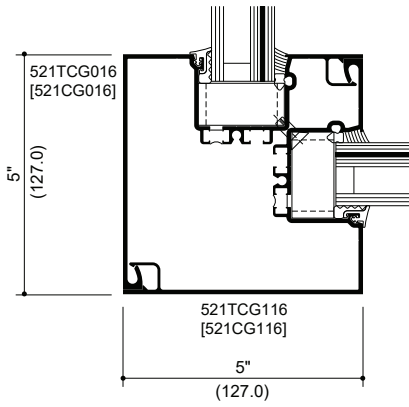
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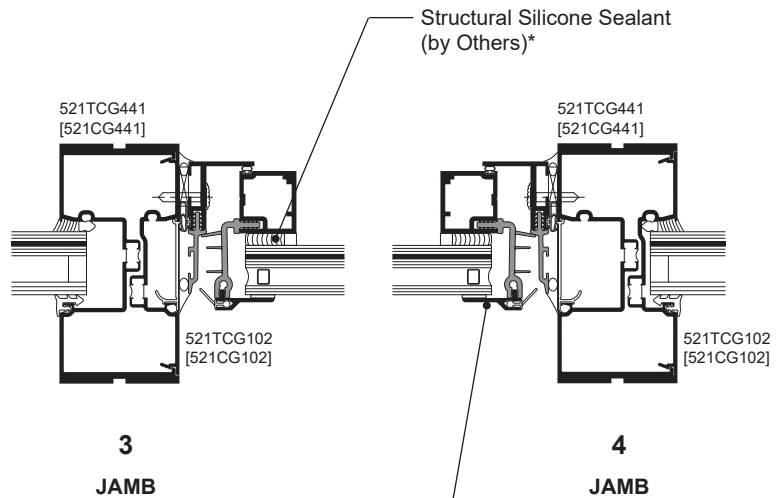
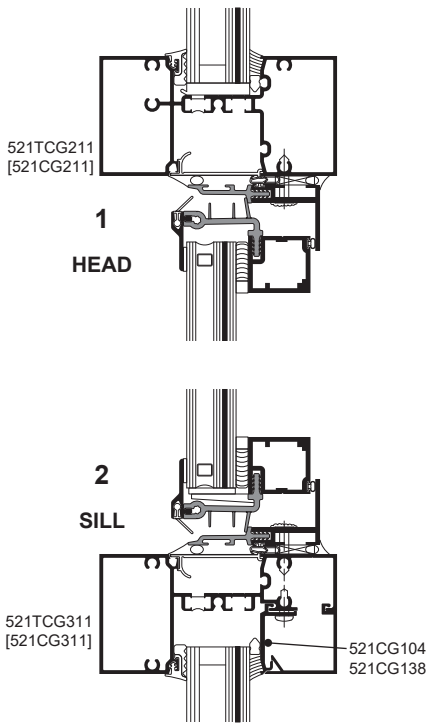
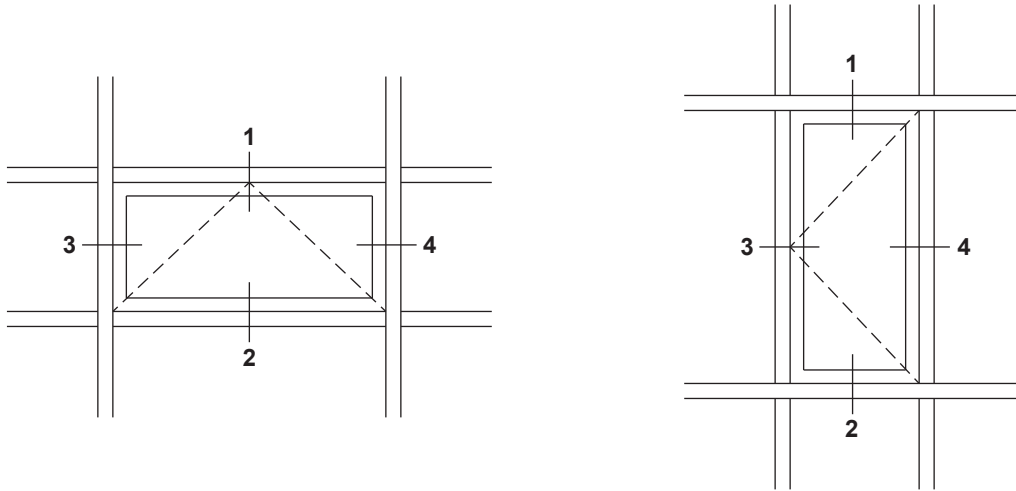
1-5/16" INFILL (FIELD GLAZED - WET GLAZED)



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



Trim Cover available in #29 Black anodized finish only

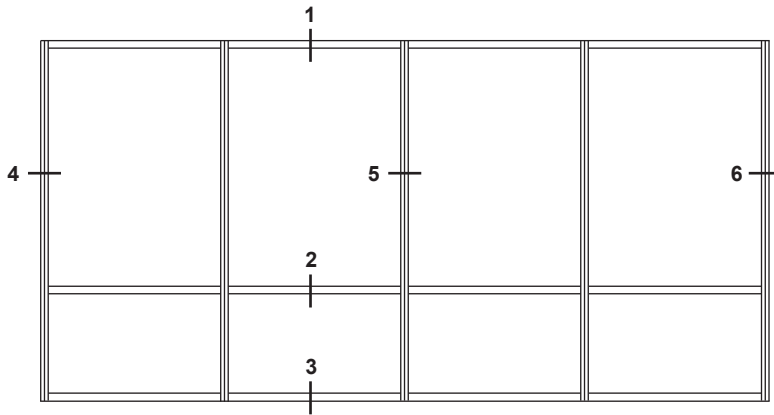
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 HURRICANE RESISTANT PRODUCT

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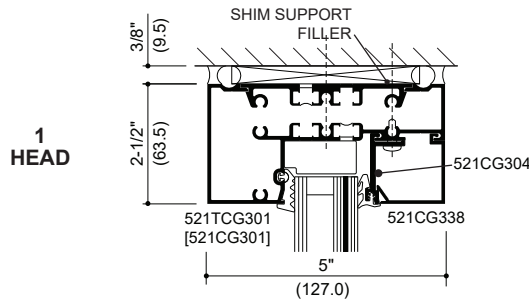
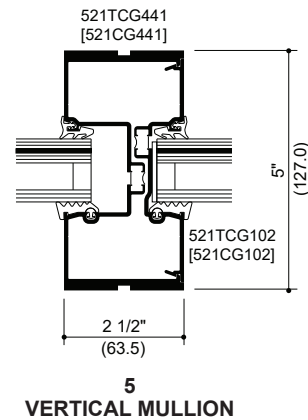
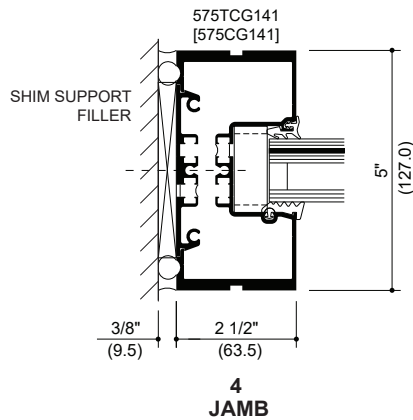
ELEVATION IS NUMBER KEYED TO DETAILS



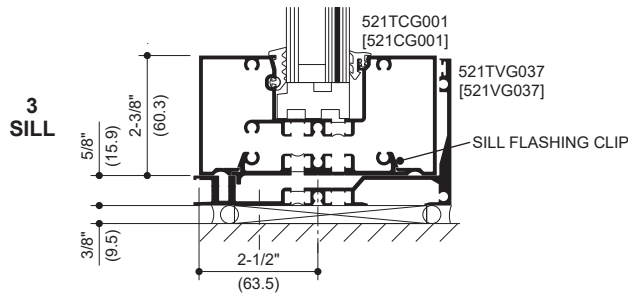
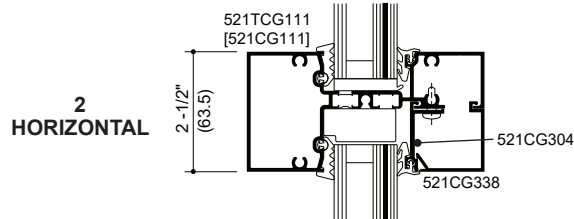
IR 521 IsoLock®
NON-THERMAL



IR 521T Single IsoLock®
THERMAL BREAK (SHOWN)



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

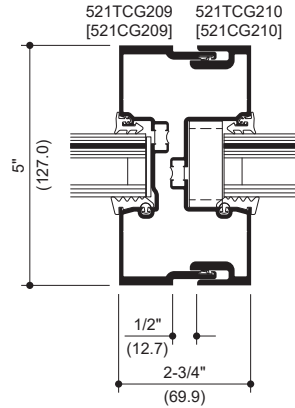


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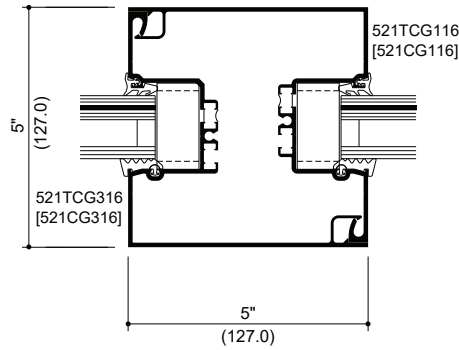
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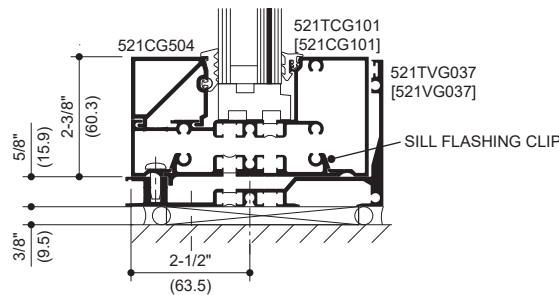
1-5/16" INFILL (FIELD GLAZED - DRY GLAZED)



EXPANSION MULLION



5" x 5" MULLION



PINNED HORIZONTAL TO SILL FLASHING

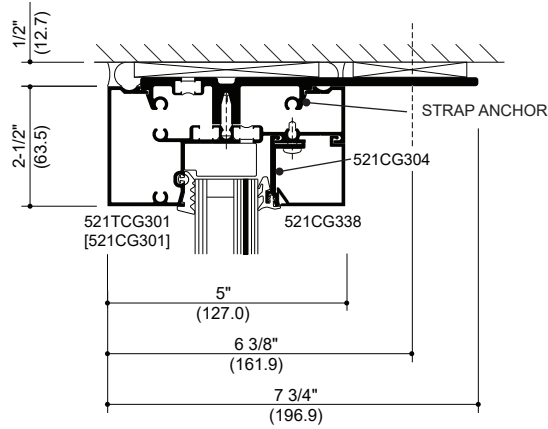
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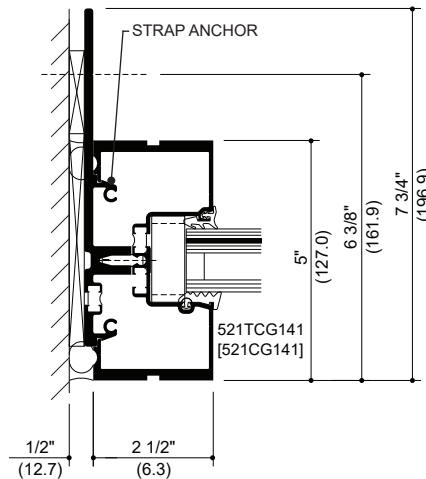


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1-5/16" INFILL (FIELD GLAZED - DRY GLAZED)



HEAD



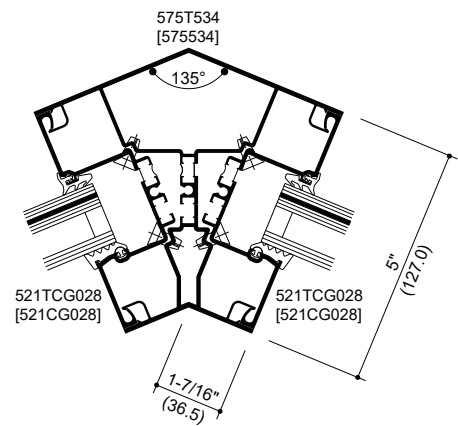
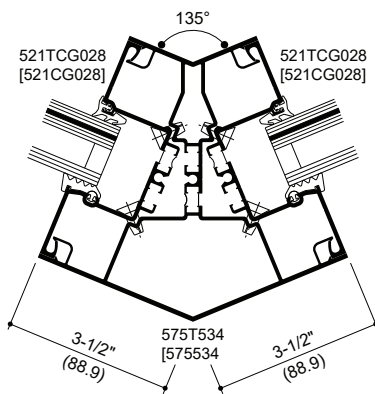
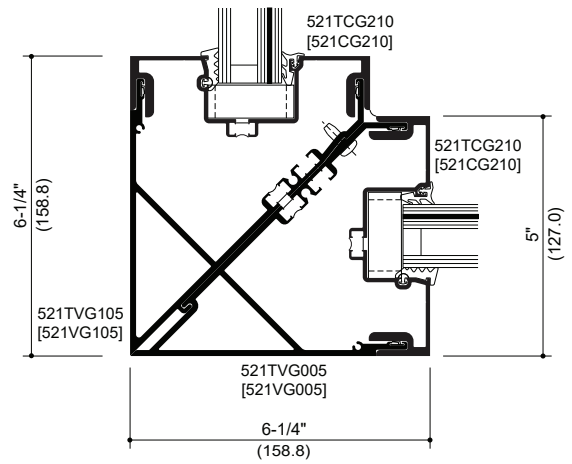
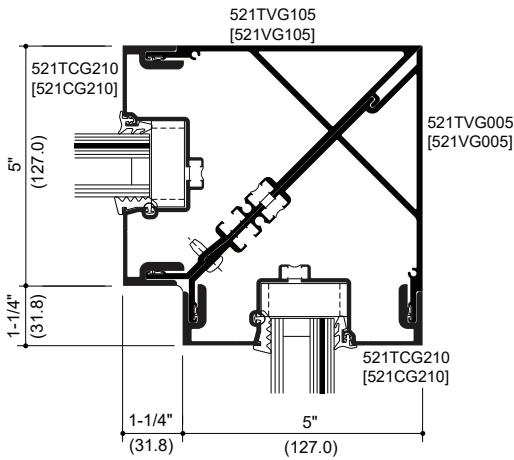
JAMB

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



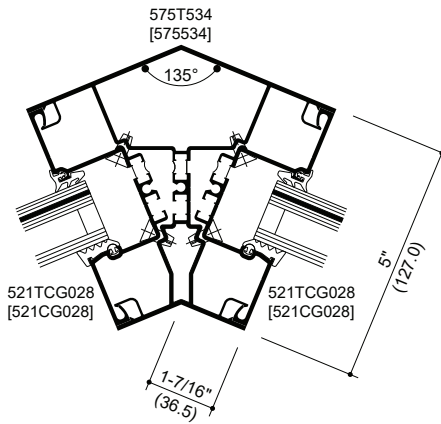
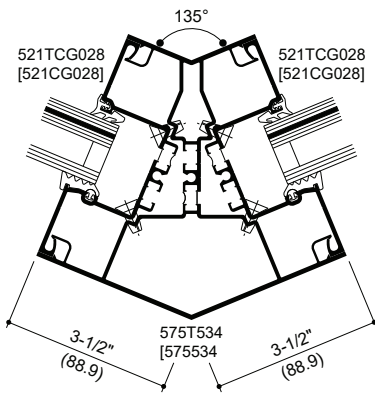
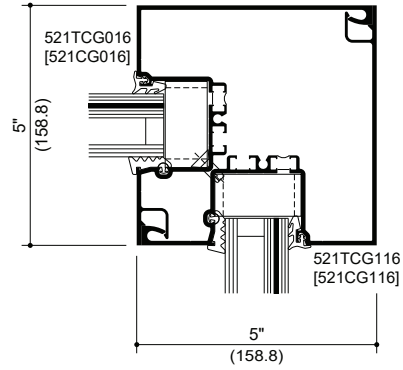
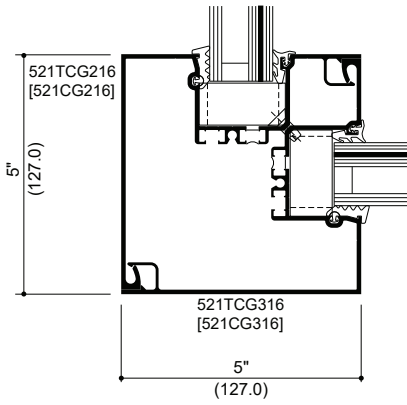
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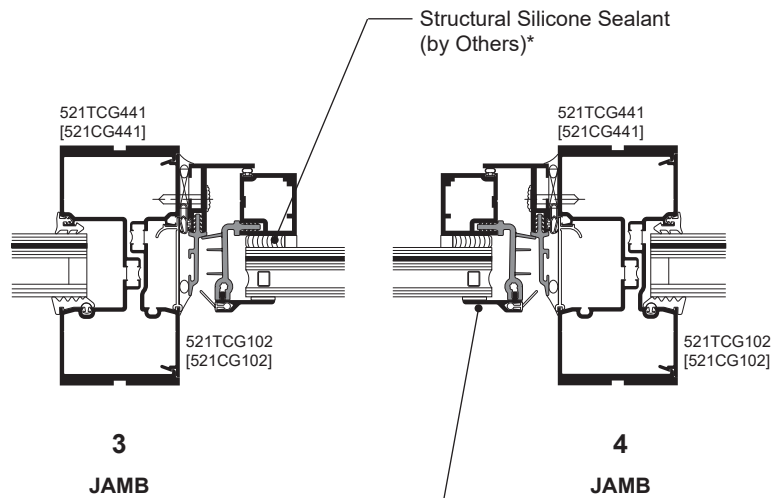
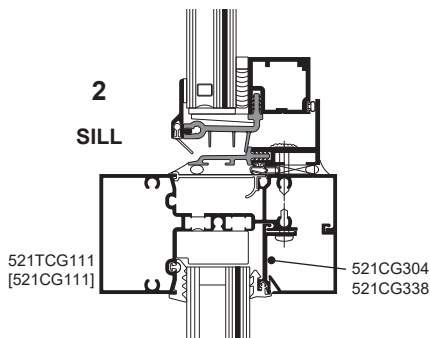
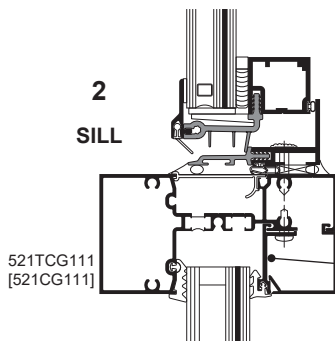
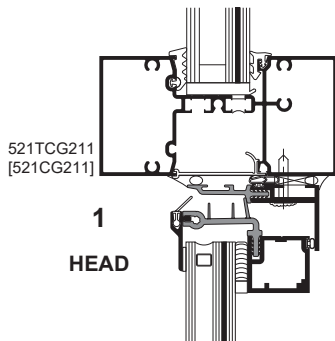
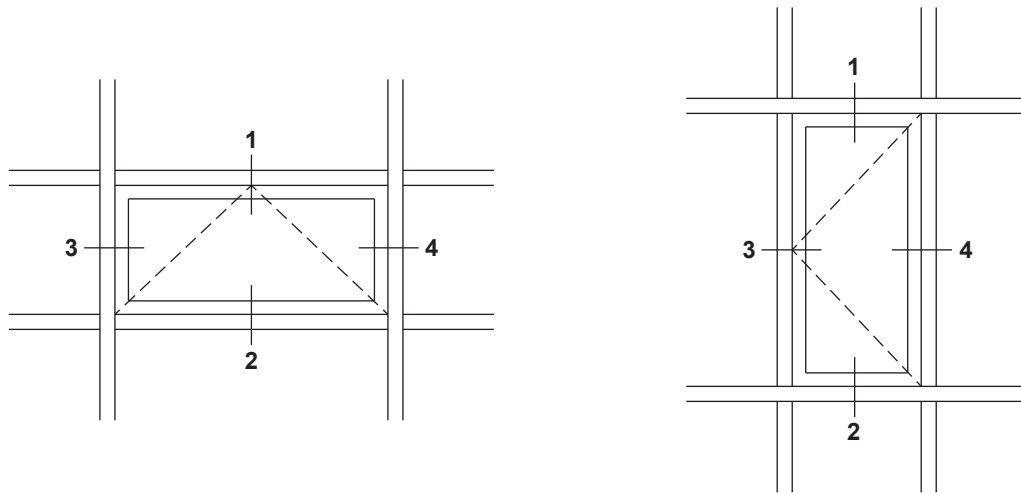
1-5/16" INFILL (FIELD GLAZED - DRY GLAZED)



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



Trim Cover available in #29 Black anodized finish only

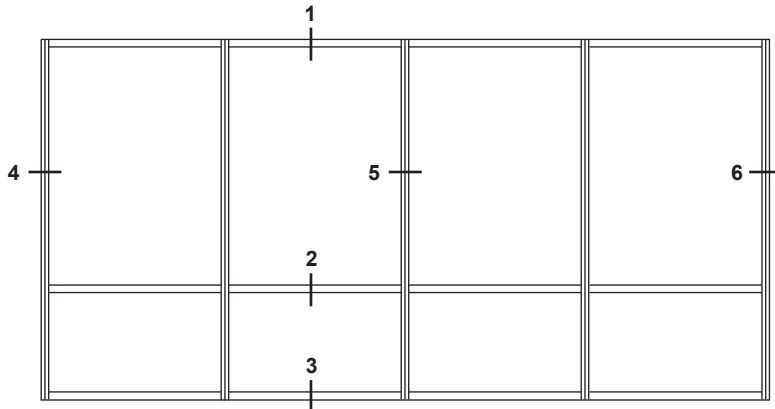
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 HURRICANE RESISTANT PRODUCT

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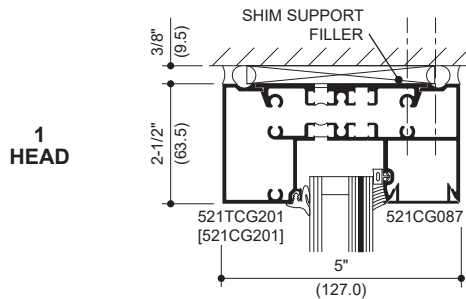
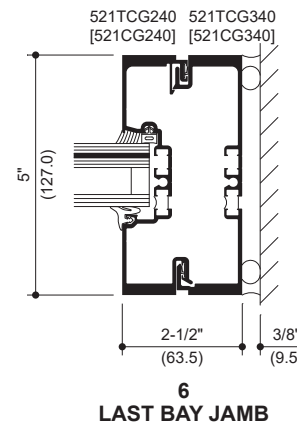
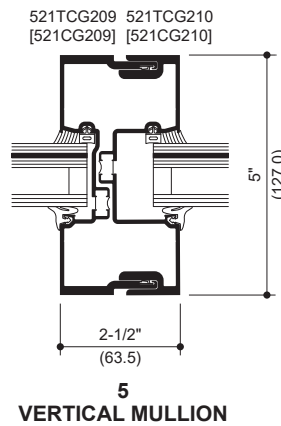
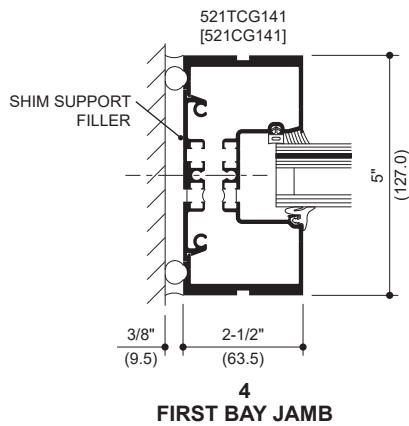
ELEVATION IS NUMBER KEYED TO DETAILS



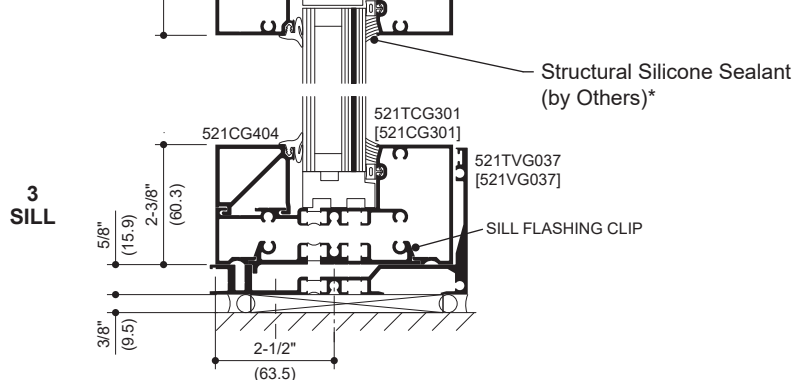
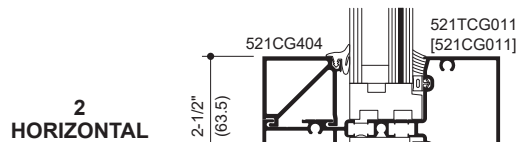
IR 521 IsoLock®
NON-THERMAL



IR 521T Single IsoLock®
THERMAL BREAK (SHOWN)



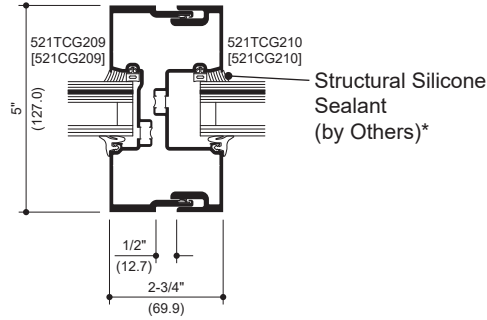
1-5/16" INFILL
(PRE GLAZED - WET GLAZED)



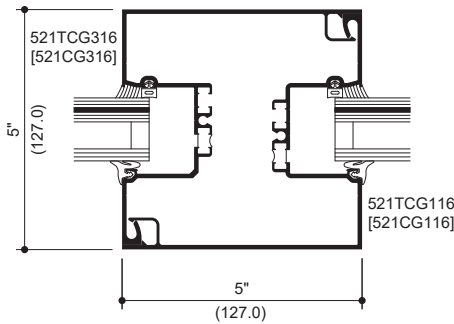
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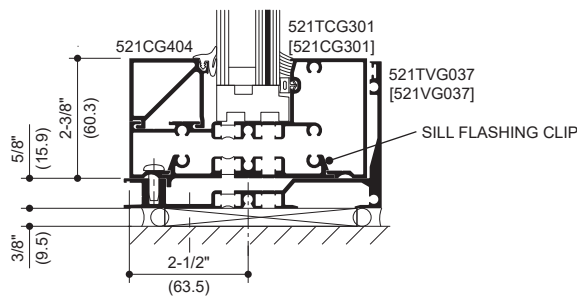
1-5/16" INFILL (PRE GLAZED - WET GLAZED)



EXPANSION MULLION



5" x 5" MULLION



PINNED HORIZONTAL TO SILL FLASHING

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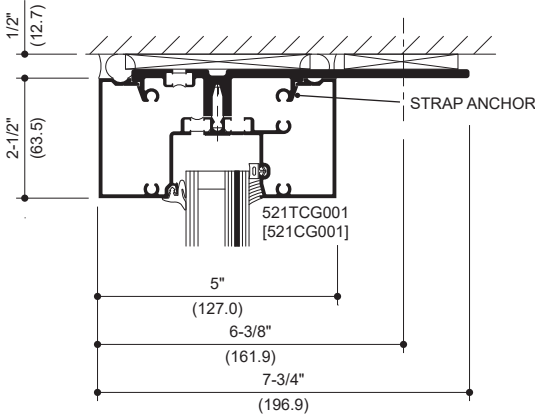
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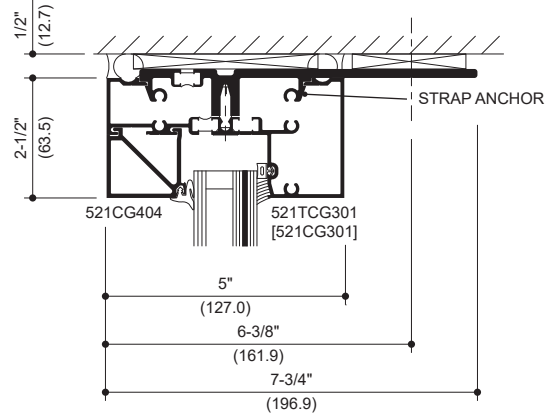


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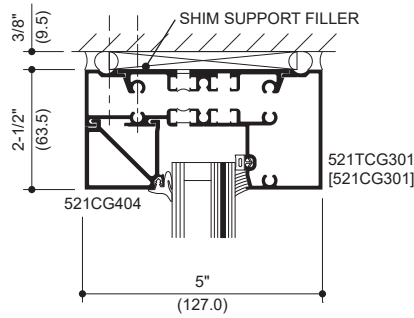
1-5/16" INFILL (PRE GLAZED - WET GLAZED)



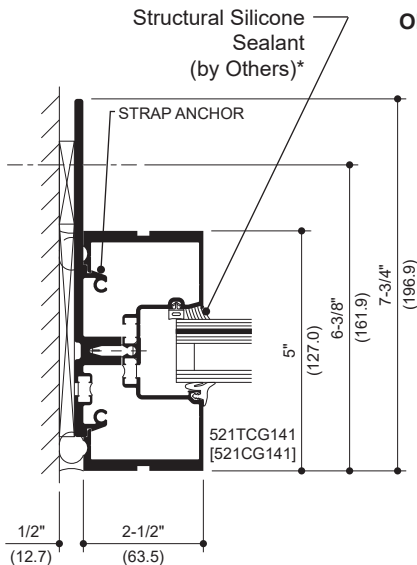
HEAD



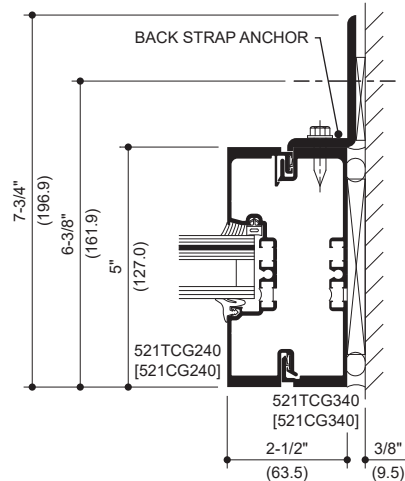
OPTIONAL HEAD WITH STOP



OPTIONAL HEAD WITH STOP



FIRST BAY JAMB



LAST BAY JAMB

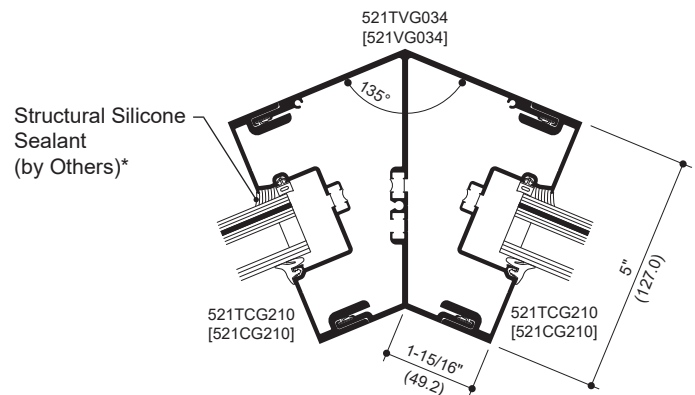
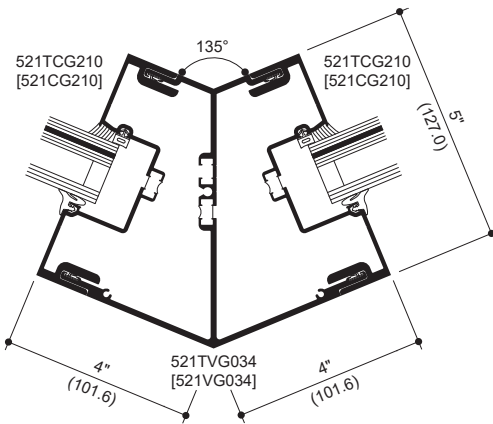
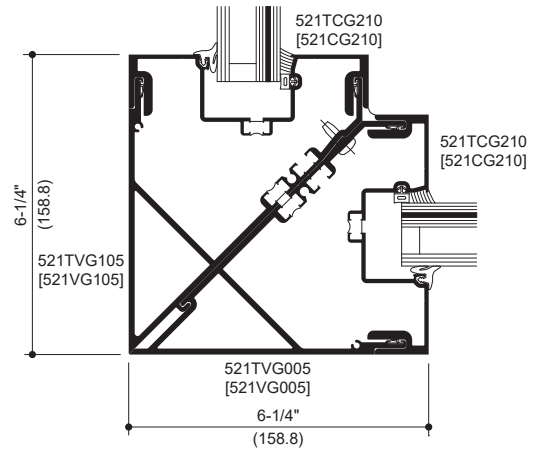
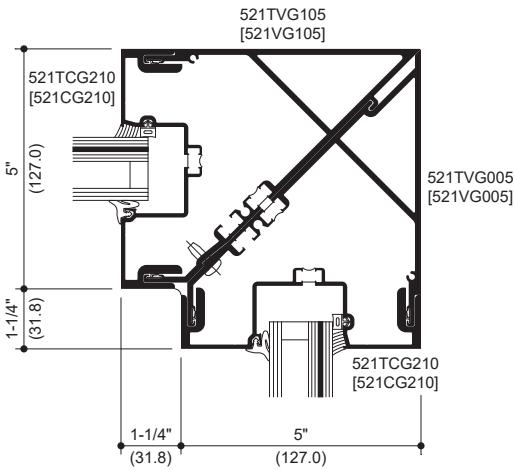
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1-5/16" INFILL (PRE GLAZED - WET GLAZED)

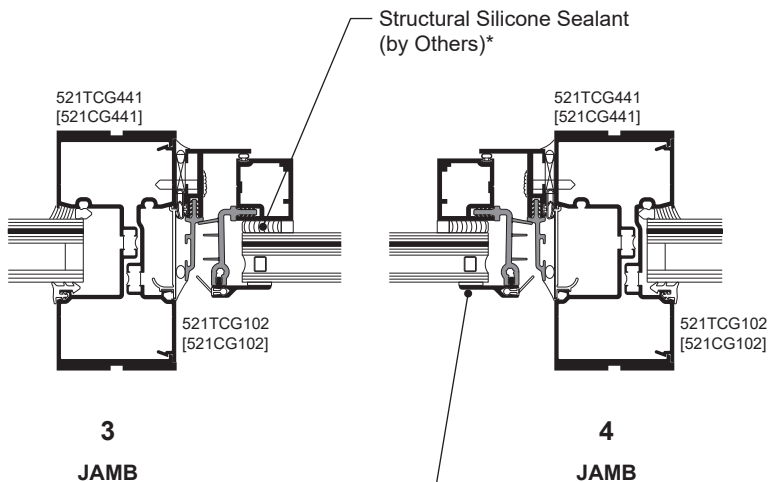
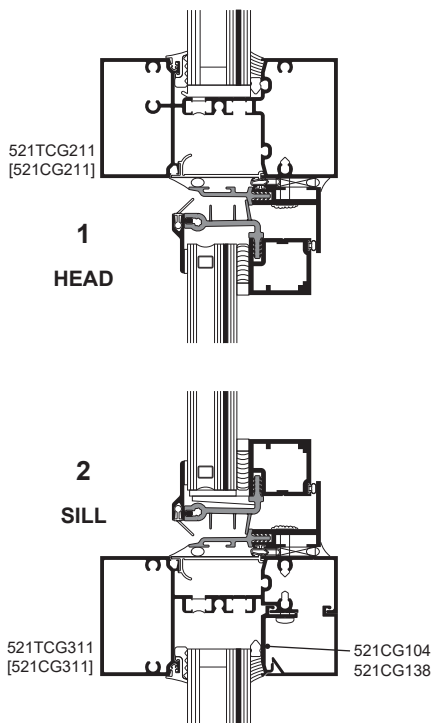
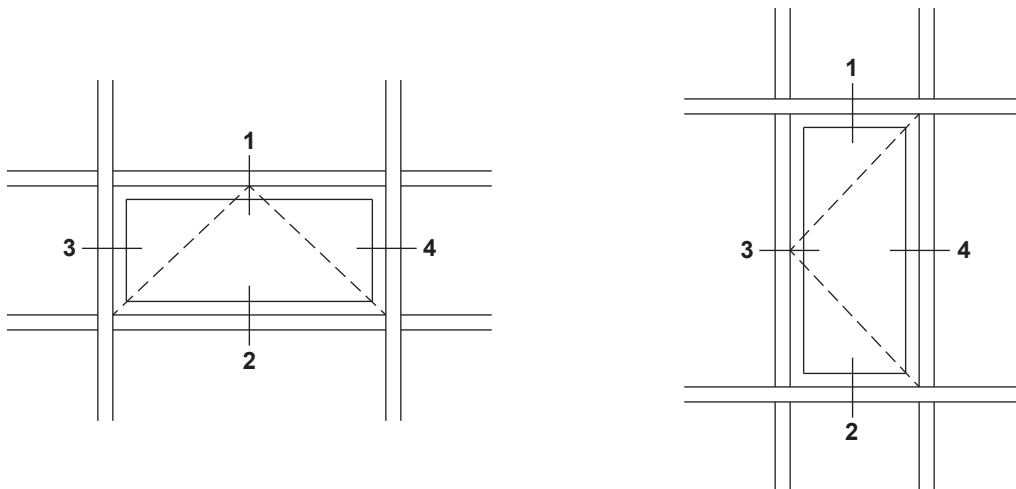


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1-5/16" INFILL (PRE GLAZED - WET GLAZED)



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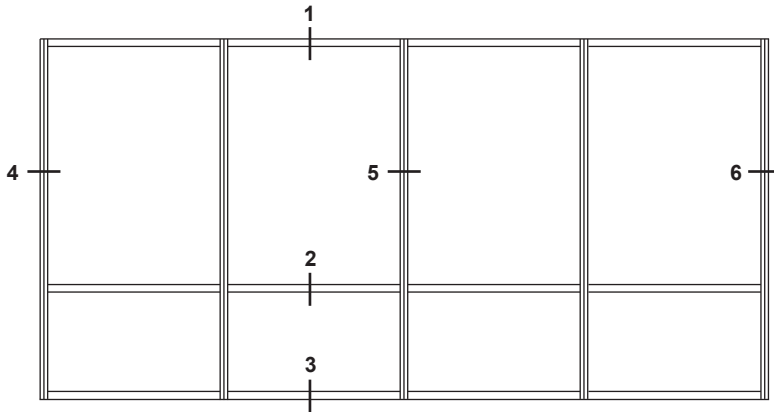
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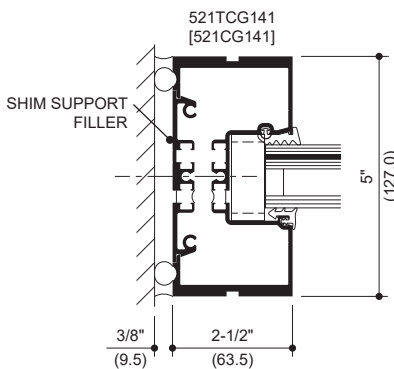
ELEVATION IS NUMBER KEYED TO DETAILS



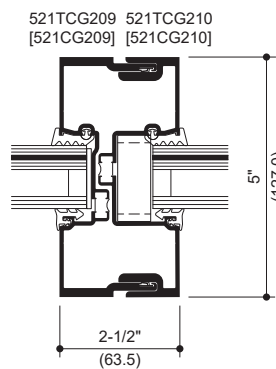
IR 521 IsoLock®
NON-THERMAL



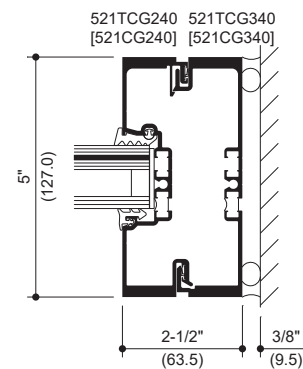
IR 521T Single IsoLock®
THERMAL BREAK (SHOWN)



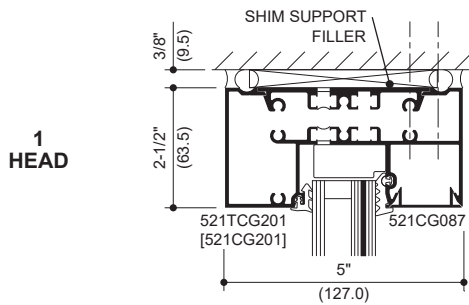
4
FIRST BAY JAMB



5
VERTICAL MULLION

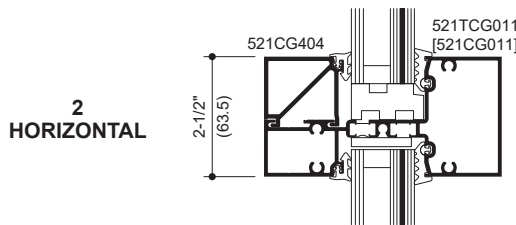


6
LAST BAY JAMB

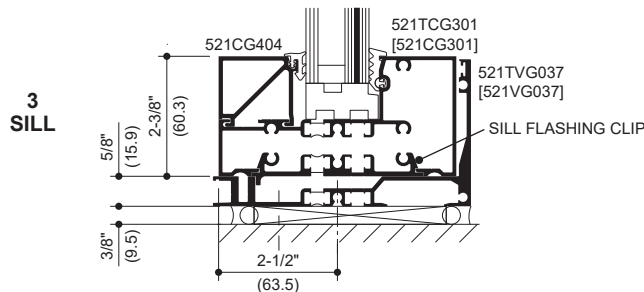


1
HEAD

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



2
HORIZONTAL



3
SILL

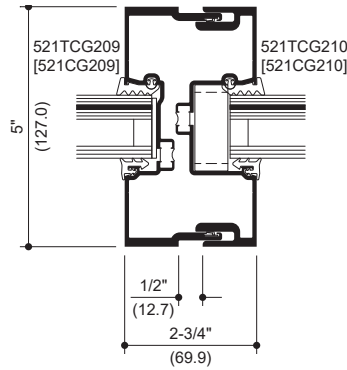
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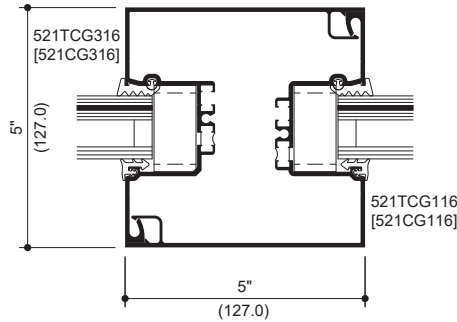


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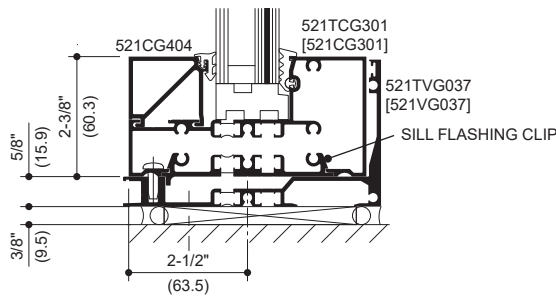
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



EXPANSION MULLION



5" x 5" MULLION



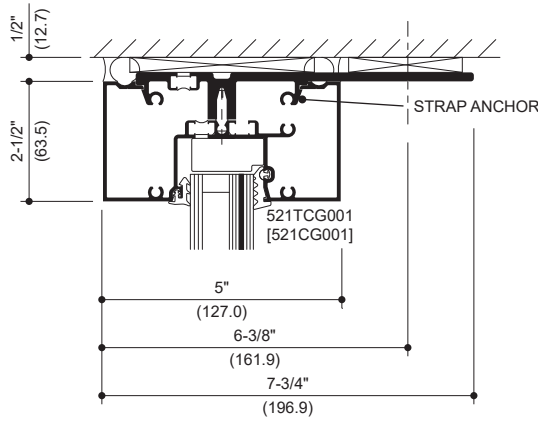
PINNED HORIZONTAL TO SILL FLASHING

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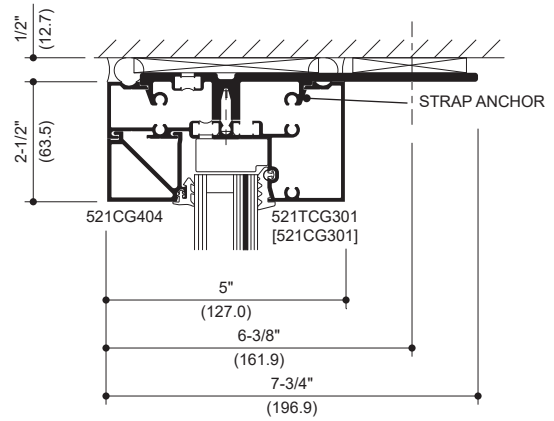
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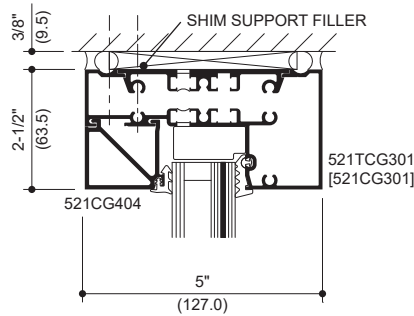
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



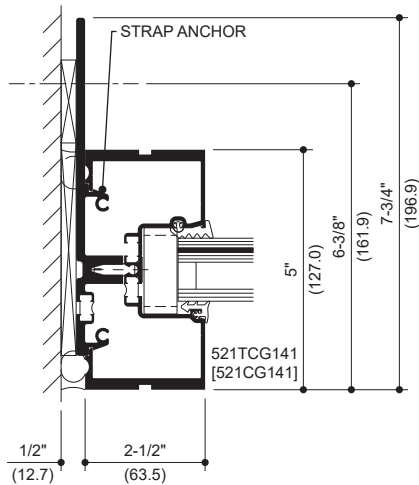
HEAD



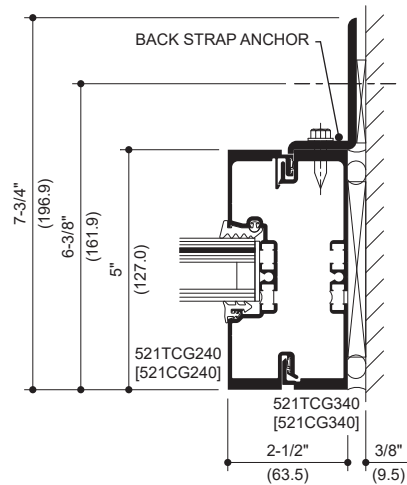
OPTIONAL HEAD WITH STOP



OPTIONAL HEAD WITH STOP



FIRST BAY JAMB



LAST BAY JAMB

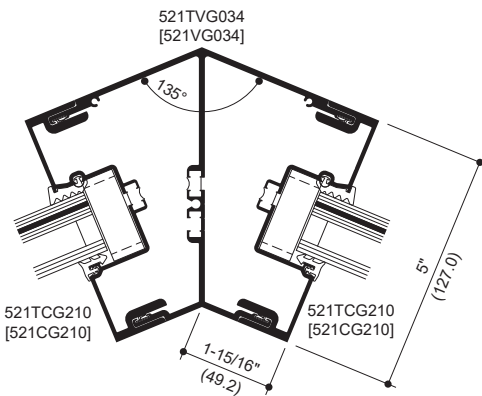
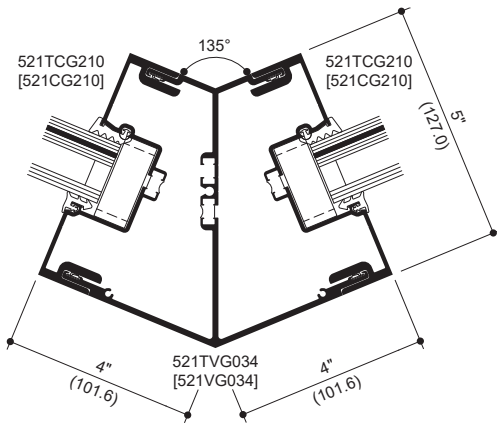
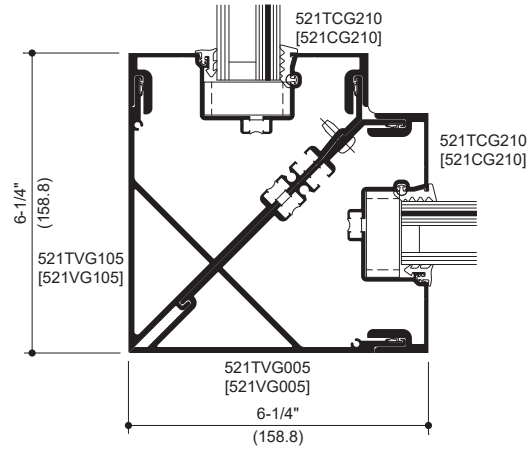
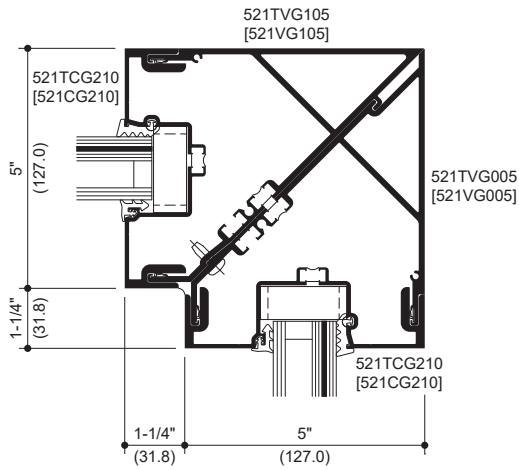
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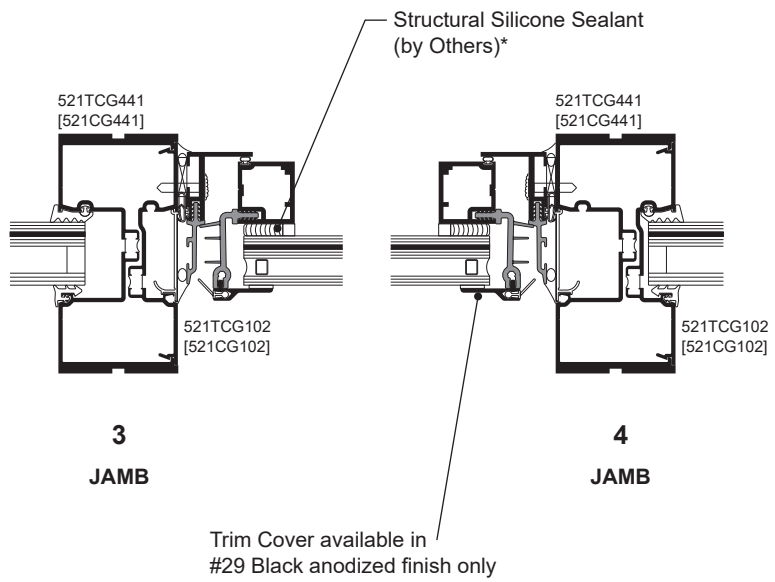
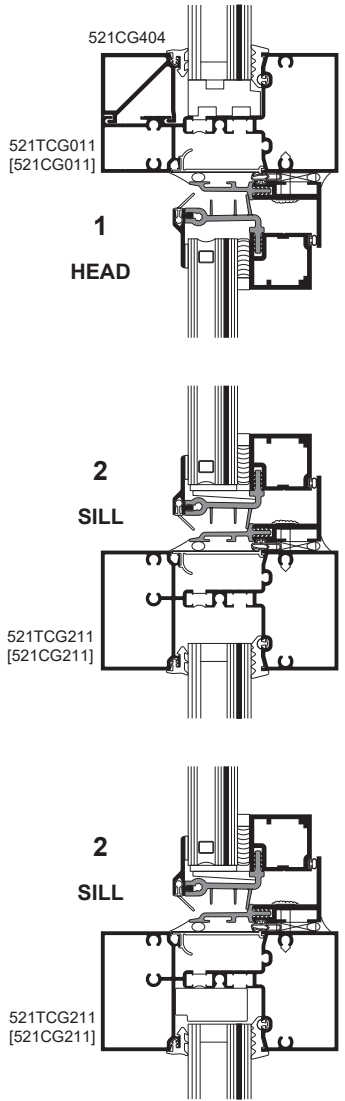
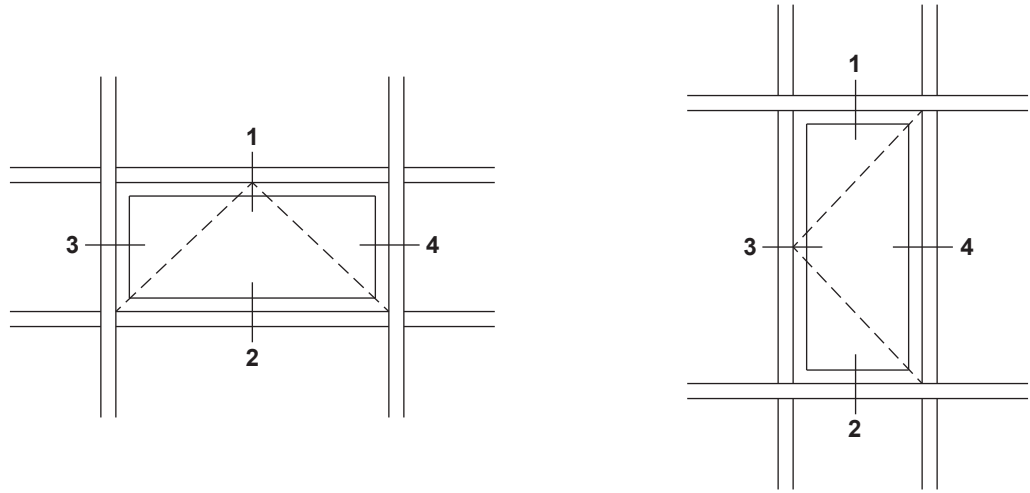
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



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



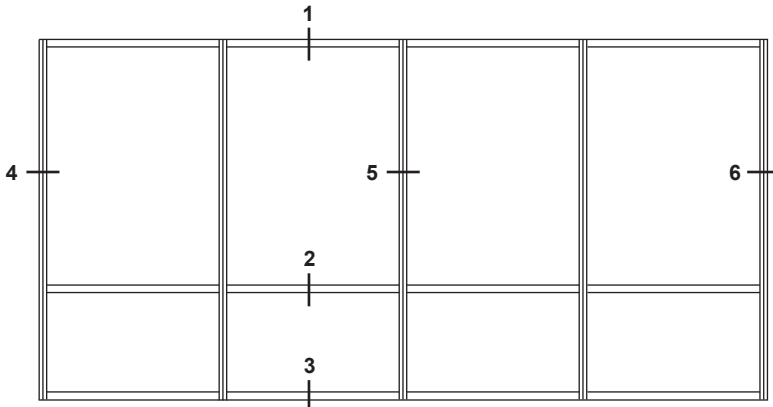
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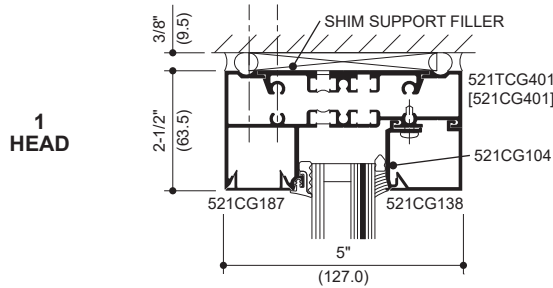
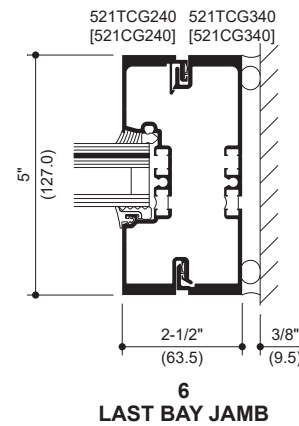
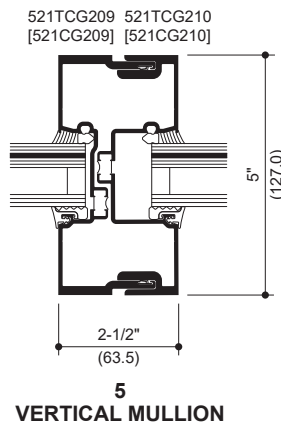
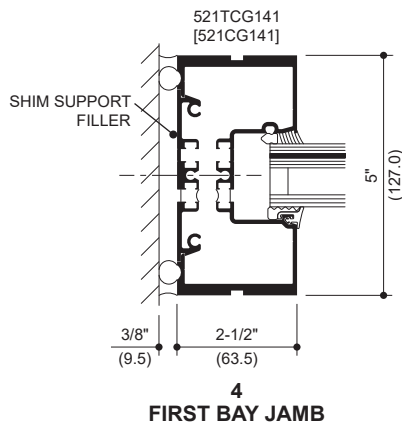
ELEVATION IS NUMBER KEYED TO DETAILS



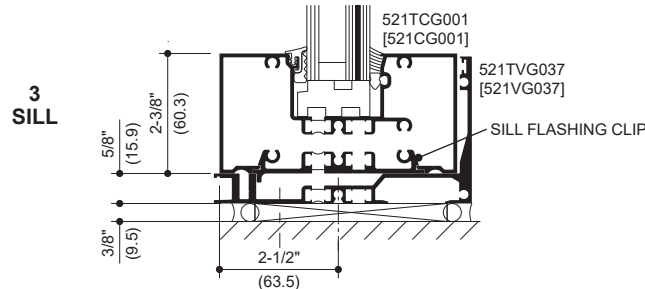
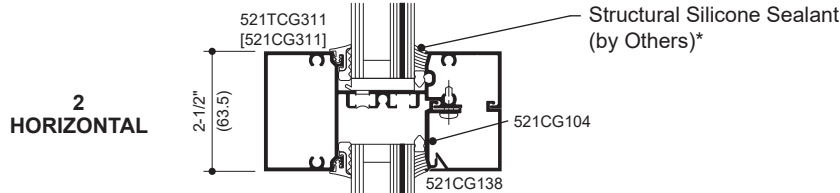
IR 521 IsoLock®
NON-THERMAL



IR 521T Single IsoLock®
THERMAL BREAK (SHOWN)



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

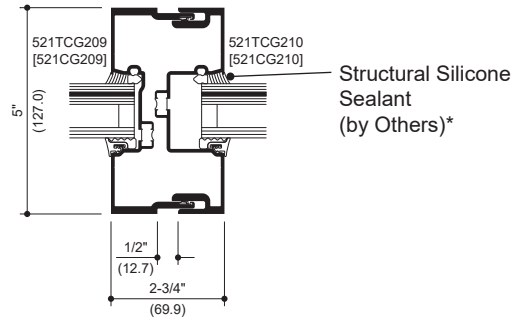


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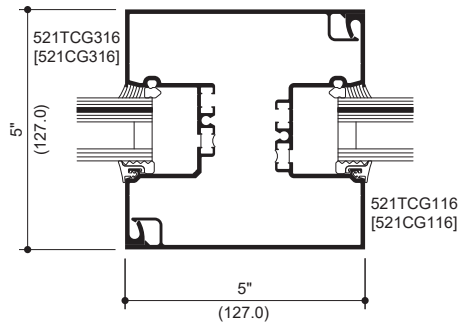


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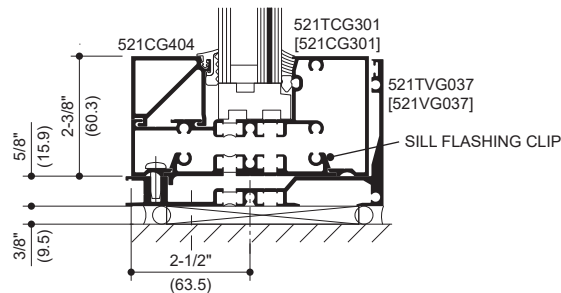
1-5/16" INFILL (PRE GLAZED - WET GLAZED)



EXPANSION MULLION



5" x 5" MULLION



PINNED HORIZONTAL TO SILL FLASHING

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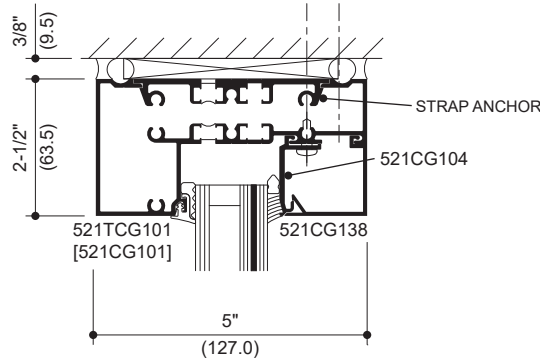
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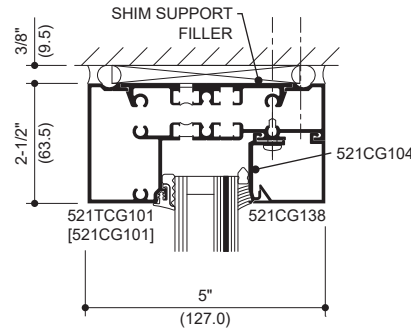


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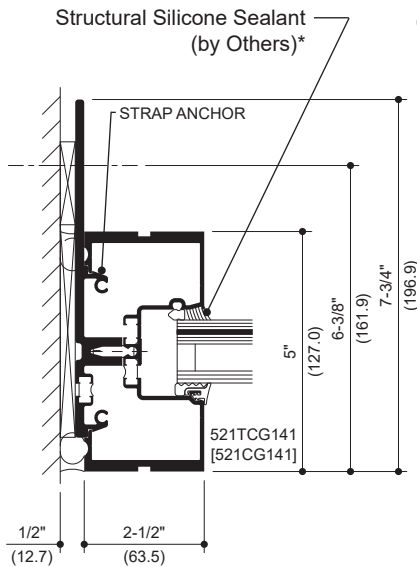
1-5/16" INFILL (PRE GLAZED - WET GLAZED)



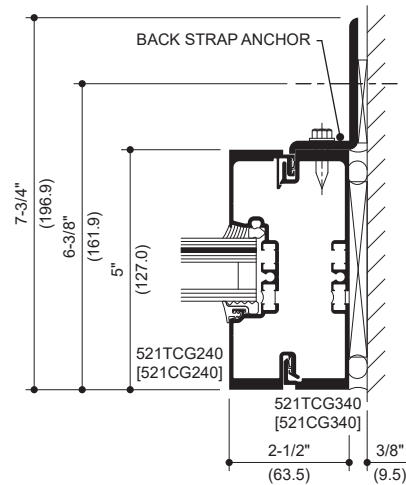
HEAD



OPTIONAL HEAD WITH STOP



FIRST BAY JAMB



LAST BAY JAMB

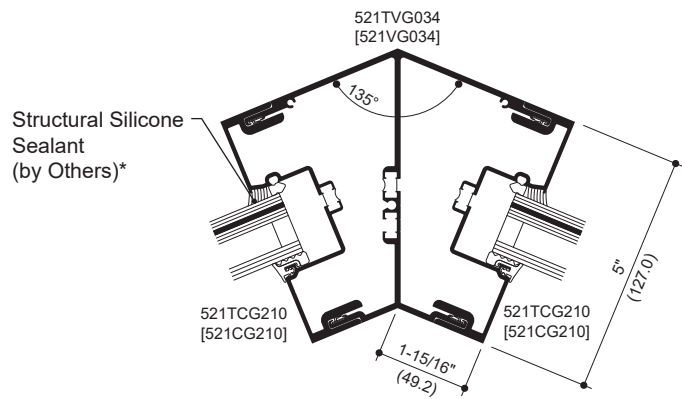
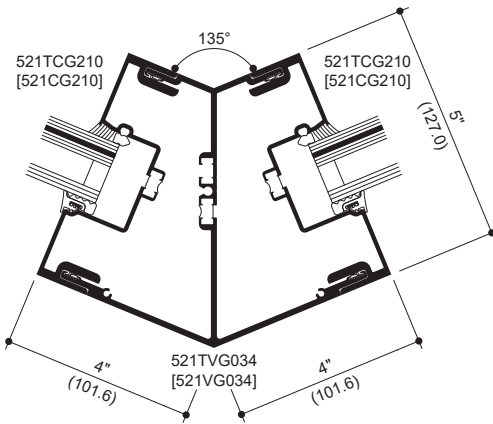
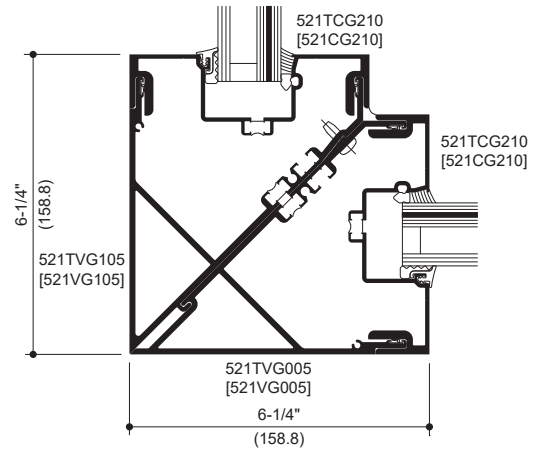
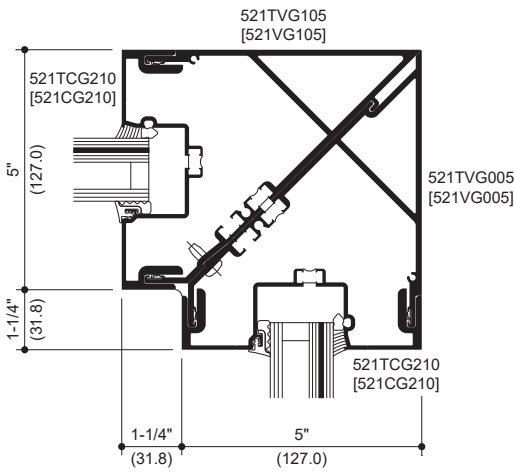
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1-5/16" INFILL (PRE GLAZED - WET GLAZED)

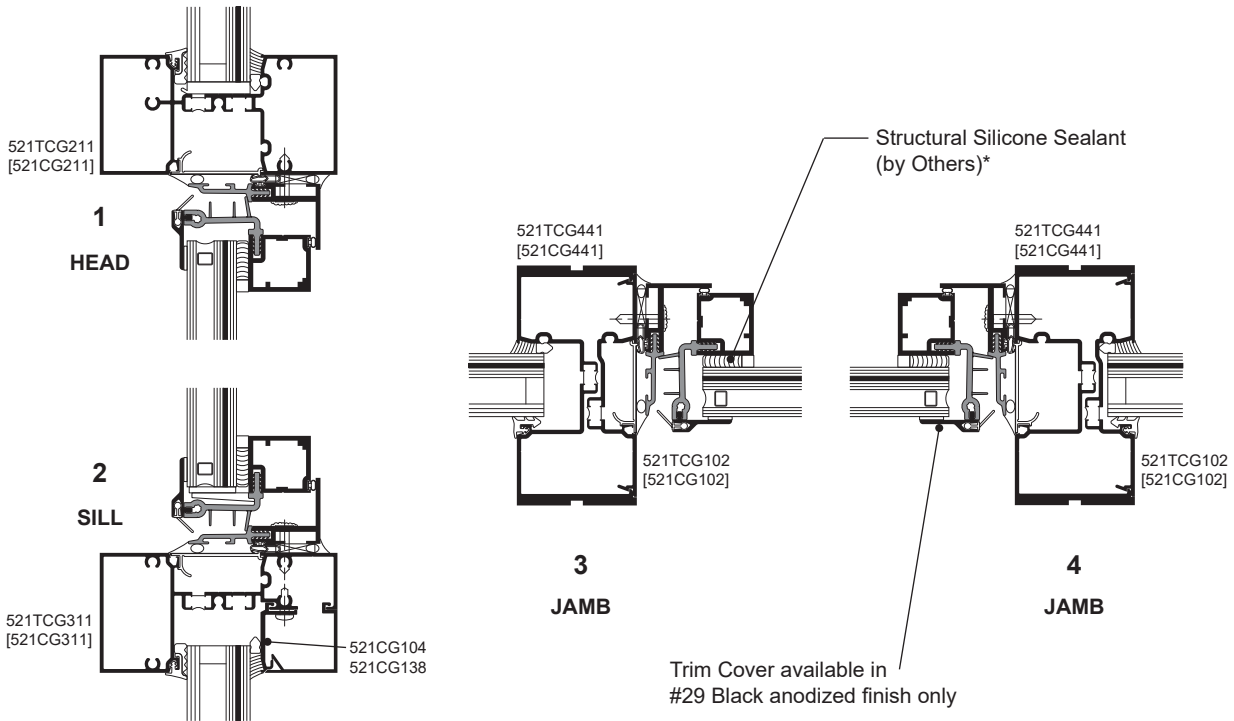
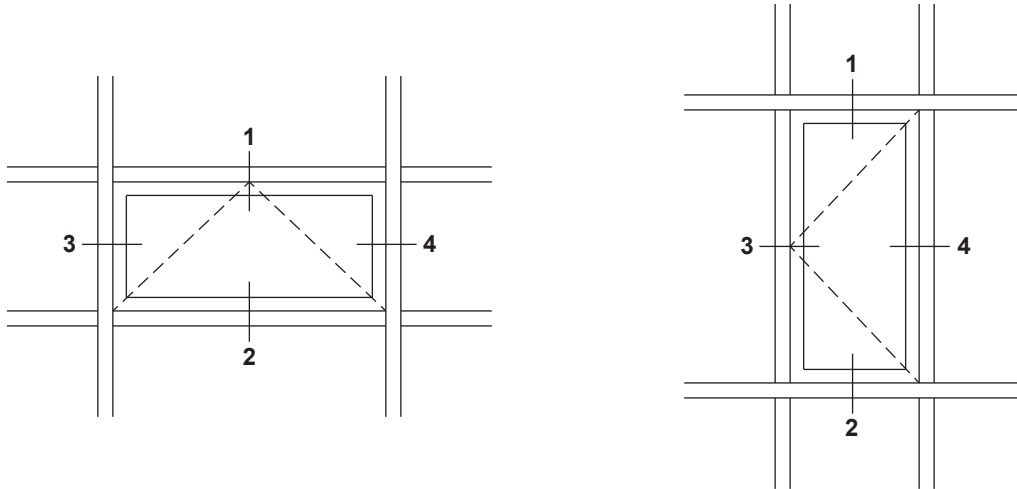


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1-5/16" INFILL (PRE-GLAZED - WET GLAZED)



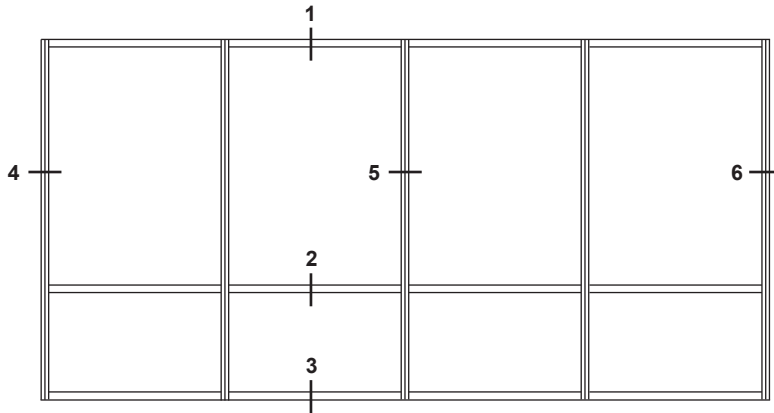
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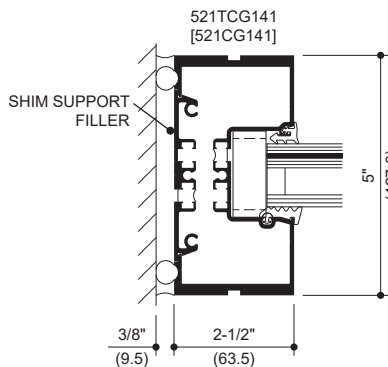


IR 521 IsoLock®
NON-THERMAL

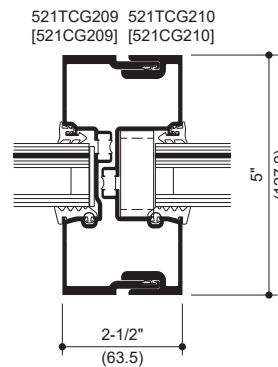


IR 521T Single IsoLock®
THERMAL BREAK (SHOWN)

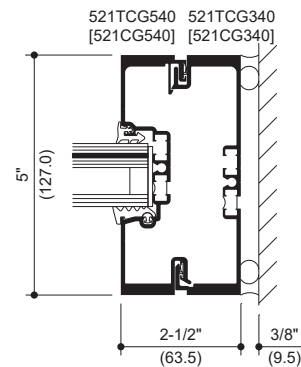
ELEVATION IS NUMBER KEYED TO DETAILS



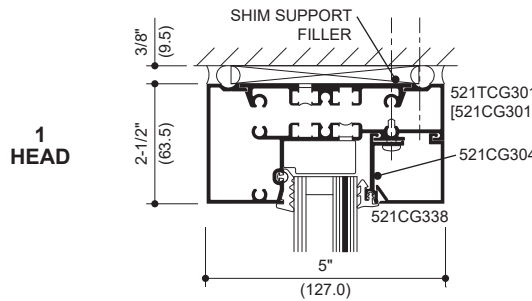
4
FIRST BAY JAMB



5
VERTICAL MULLION

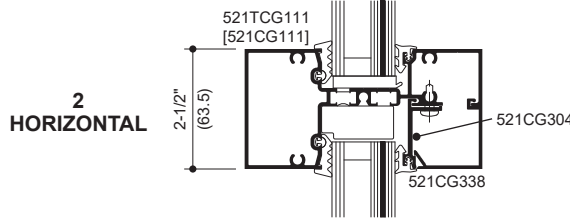


6
LAST BAY JAMB

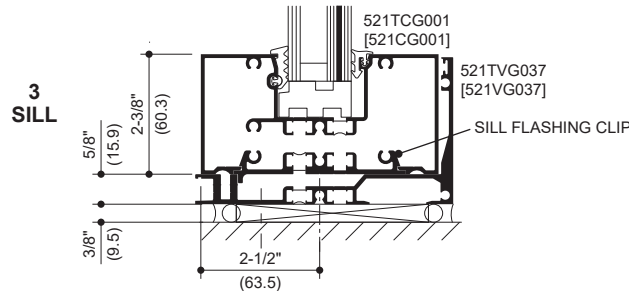


1
HEAD

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



2
HORIZONTAL



3
SILL

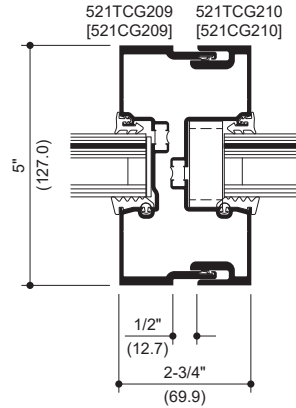
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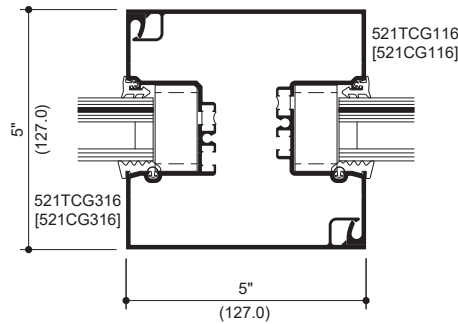


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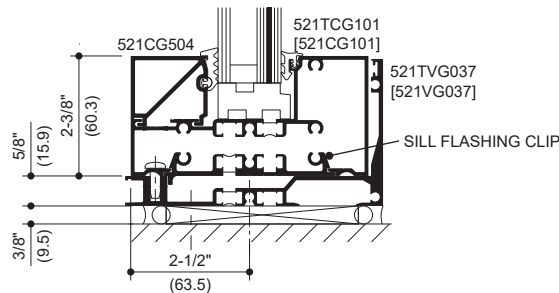
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



EXPANSION MULLION



5" x 5" MULLION



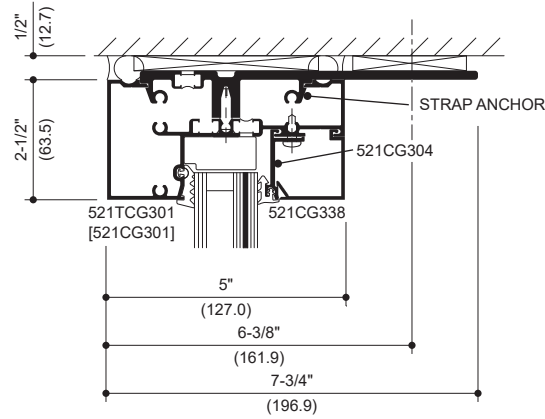
PINNED HORIZONTAL TO SILL FLASHING

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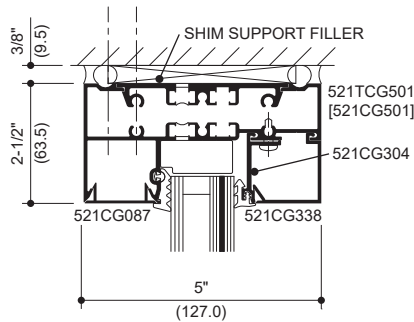
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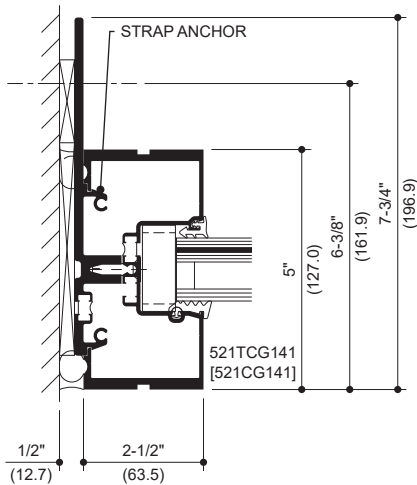
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



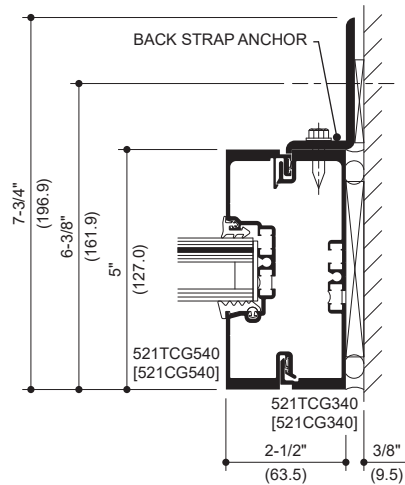
HEAD



OPTIONAL HEAD WITH STOP



FIRST BAY JAMB



LAST BAY JAMB

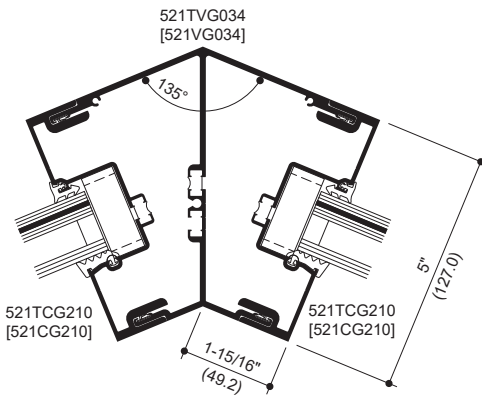
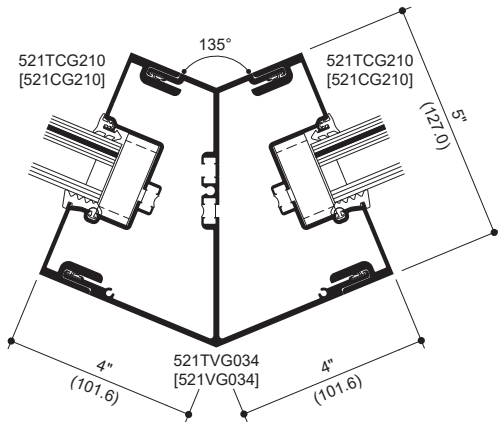
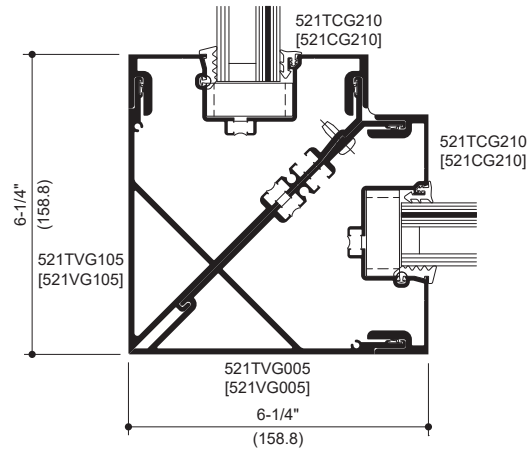
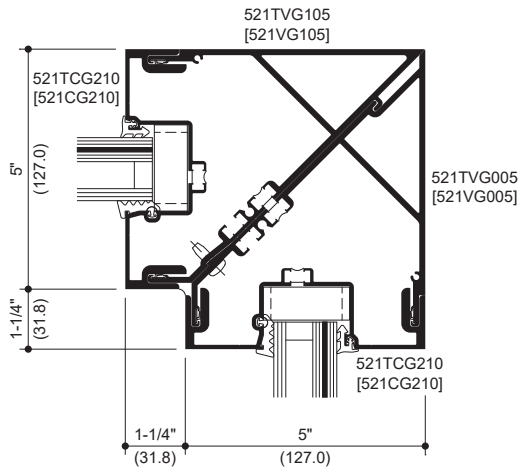
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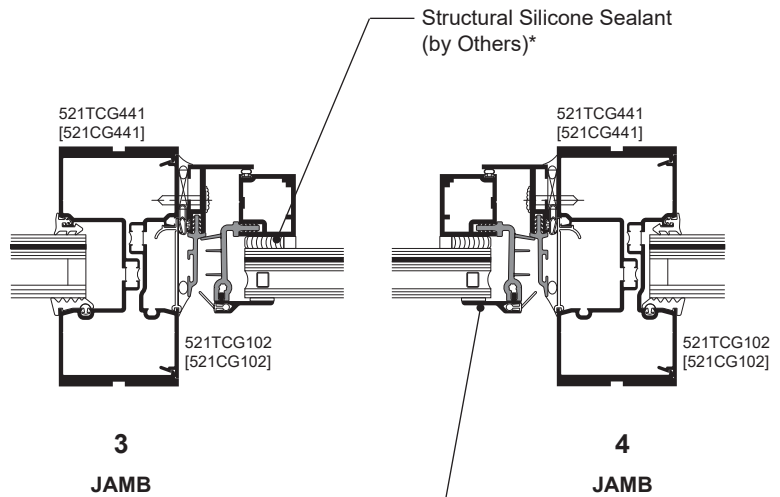
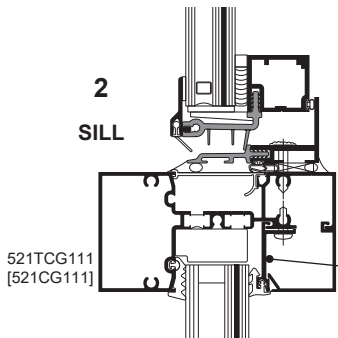
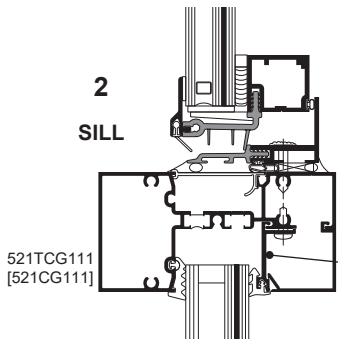
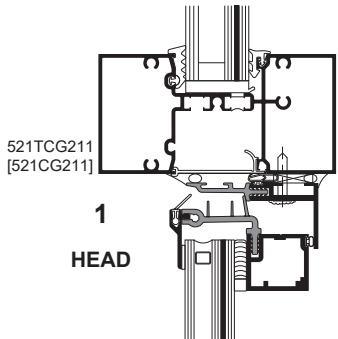
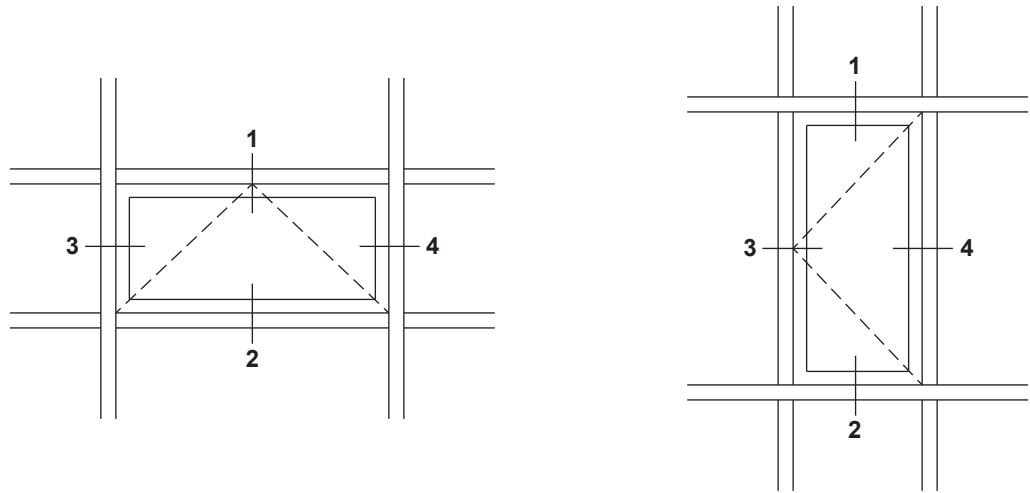
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



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



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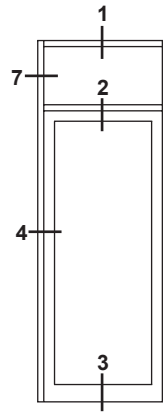
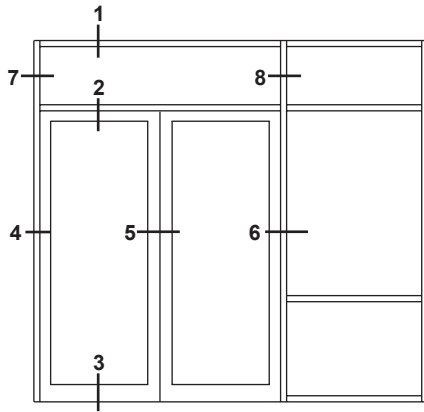
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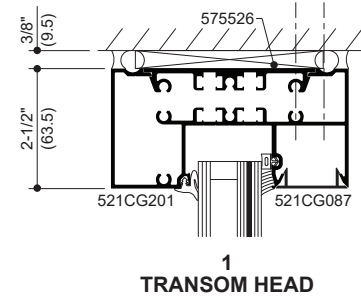


Additional information and CAD details are available at www.kawneer.com

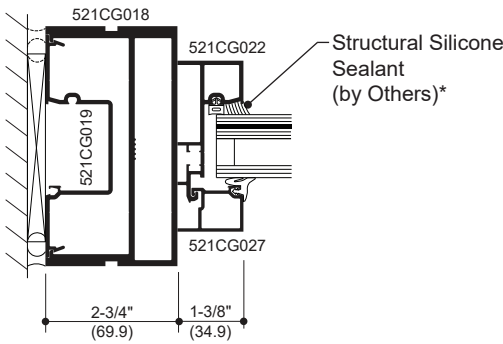
IR 521 FRAMING INCORPORATING KAWNEER 350 IR DOORS.
SEE 350/500 IR ENTRANCES FOR ADDITIONAL DOOR AND ENTRANCE FRAMING OPTIONS.



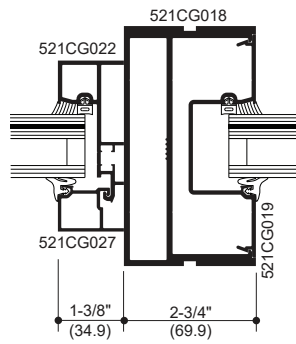
ELEVATION IS NUMBER KEYED TO DETAILS



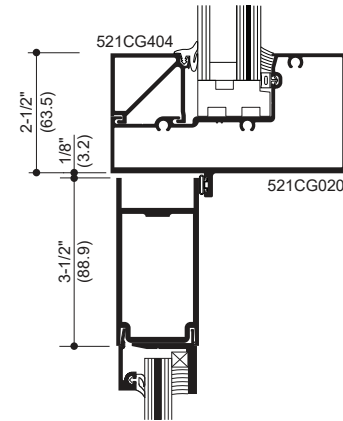
1
TRANSOM HEAD



7
DOOR JAMB
AT TRANSOM

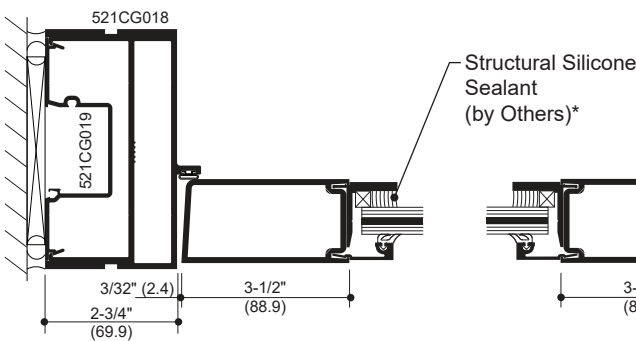


8
DOOR JAMB
AT TRANSOM

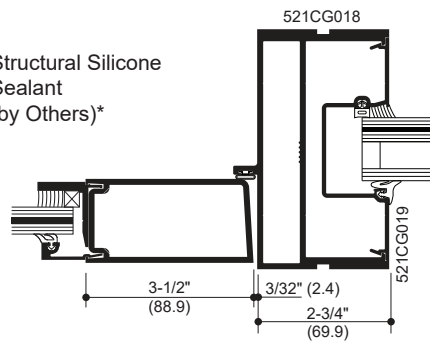


2
DOOR WITH TRANSOM

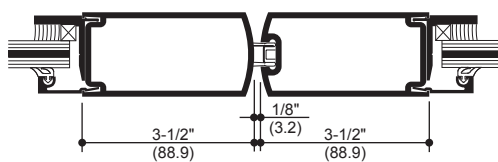
Transom for C.O.C. also available



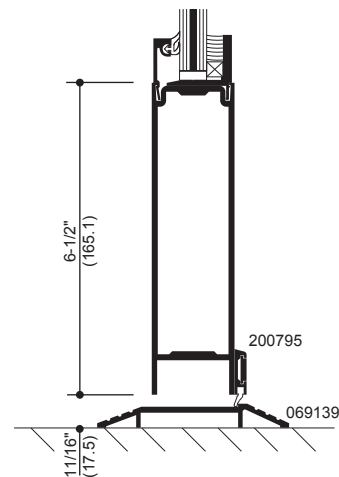
4
DOOR JAMB



6
DOOR JAMB



5
PAIR OF DOORS



3
THRESHOLD

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

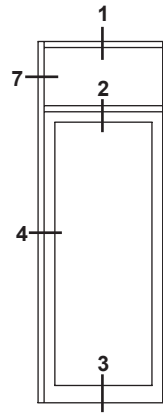
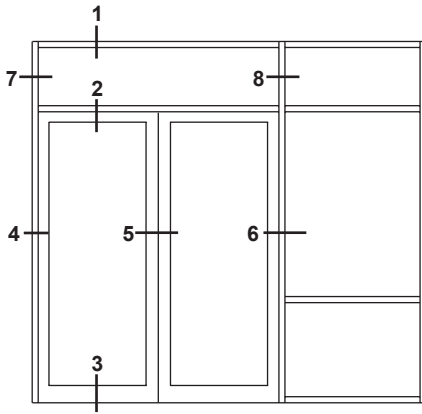
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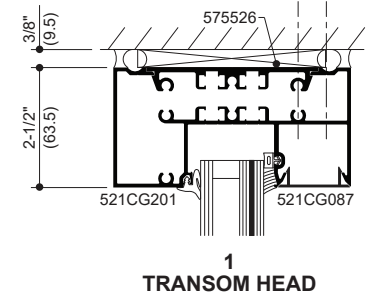


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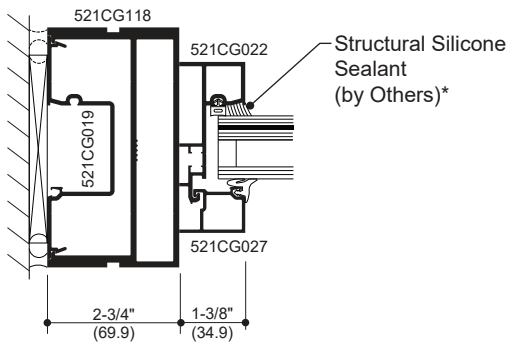
IR 521 FRAMING INCORPORATING KAWNEER 350 HEAVY WALL™ IR ENTRANCES.
SEE 350/500 IR HEAVY WALL™ ENTRANCES FOR ADDITIONAL DOOR AND ENTRANCE FRAMING OPTIONS.



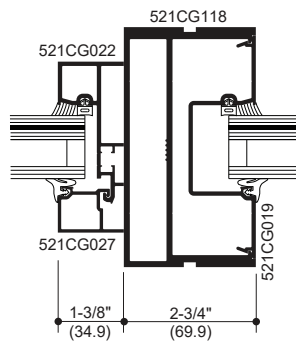
ELEVATION IS NUMBER KEYED TO DETAILS



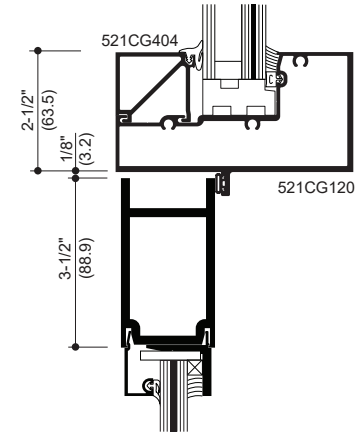
1
TRANSOM HEAD



7
DOOR JAMB
AT TRANSOM

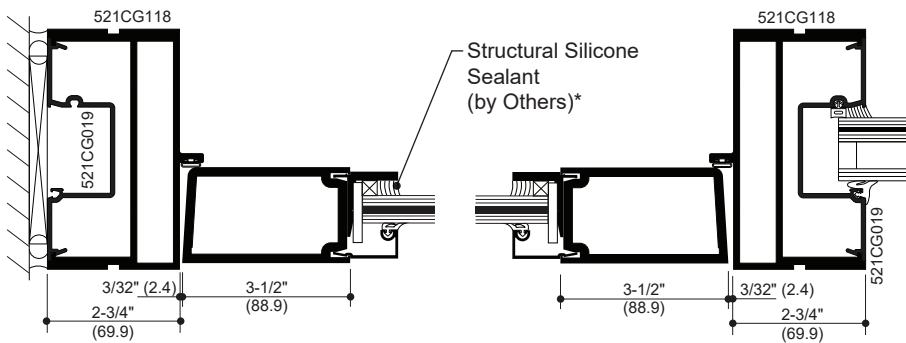


8
DOOR JAMB
AT TRANSOM



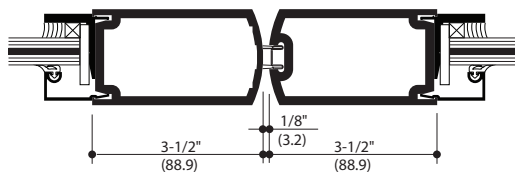
2
DOOR WITH TRANSOM

Transom for C.O.C. also available

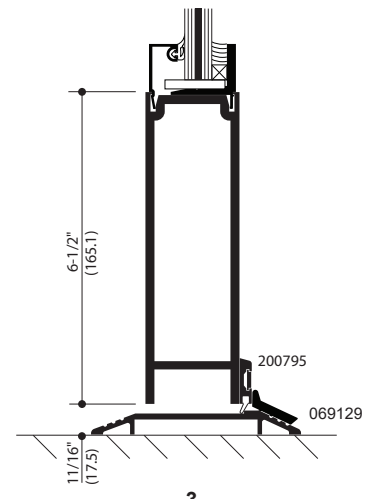


4
DOOR JAMB

6
DOOR JAMB



5
PAIR OF DOORS



3
THRESHOLD

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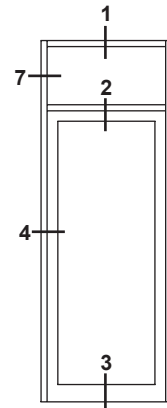
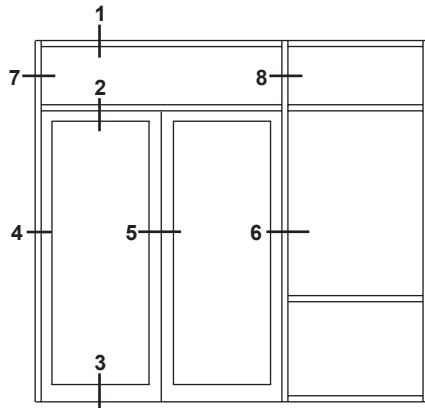
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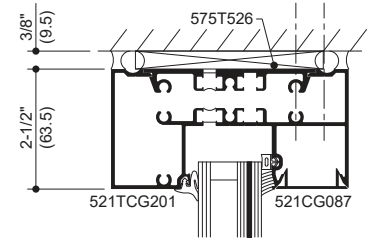


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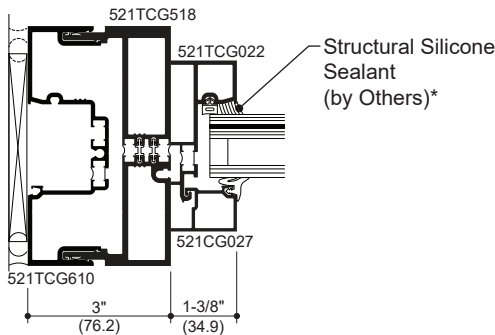
IR 521T FRAMING INCORPORATING KAWNEER 350T INSULPOUR® DOORS.
SEE 250T/350T/500T INSULPOUR® ENTRANCES FOR ADDITIONAL DOOR AND ENTRANCE FRAMING OPTIONS.



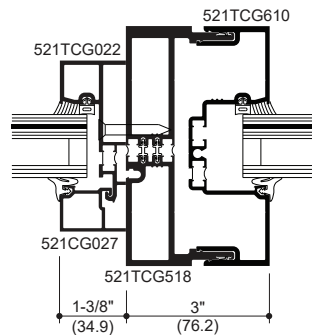
ELEVATION IS NUMBER KEYED TO DETAILS



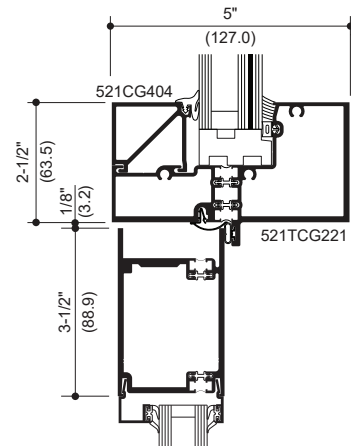
1
TRANSOM HEAD



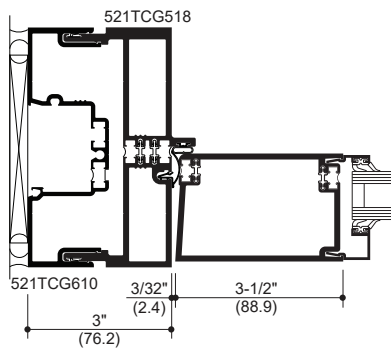
7
DOOR JAMB
AT TRANSOM



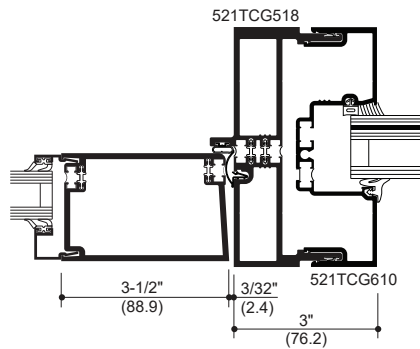
8
DOOR JAMB
AT TRANSOM



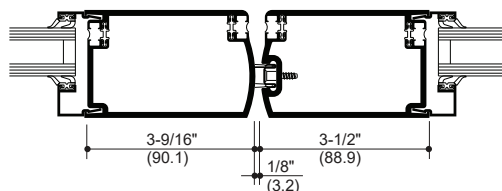
2
DOOR WITH TRANSOM
Transom for C.O.C. also available



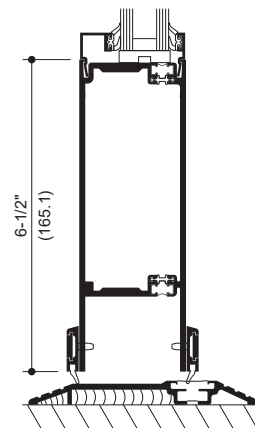
4
DOOR JAMB



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

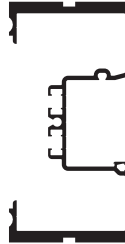
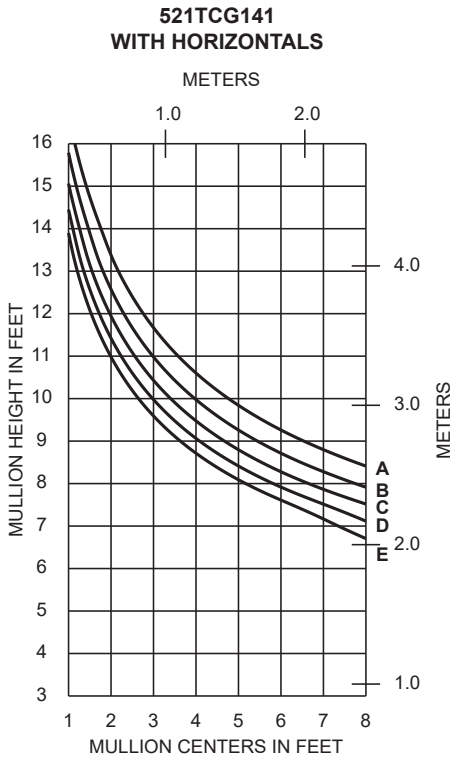
Horizontal or deadload limitations are based upon 1/8" (3.2), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1-5/16" (33.3) thick insulated impact resistant glass supported on two setting blocks placed at the loading points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

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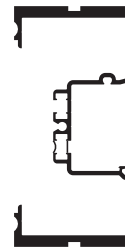
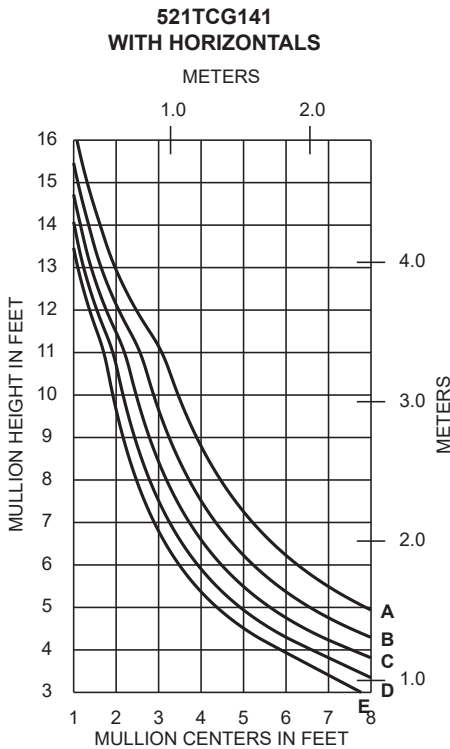
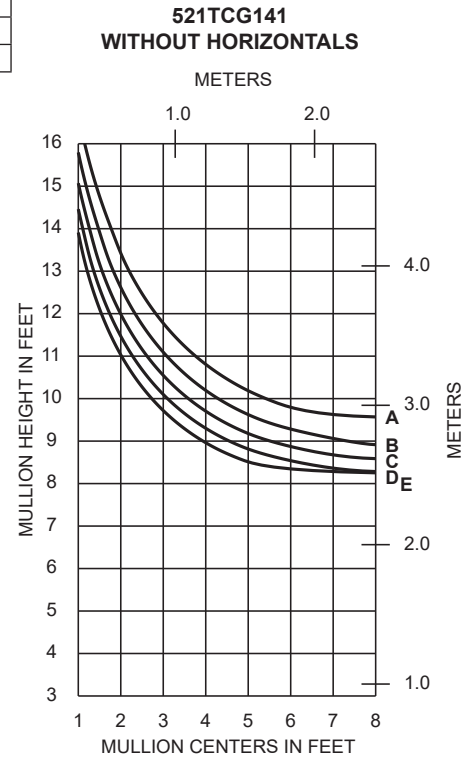


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)



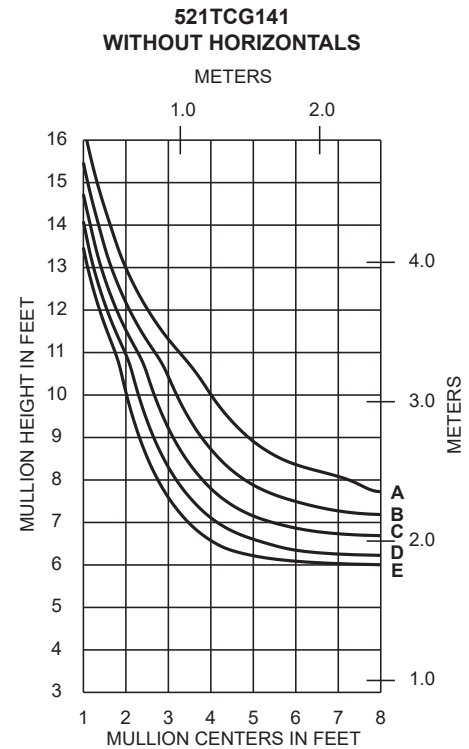
521CG141 (IR 521)

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



521TCG141 (IR 521T)

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



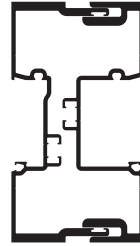
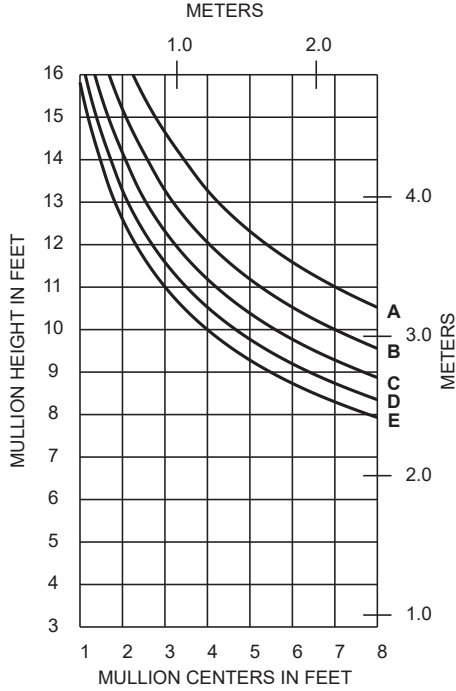
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	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

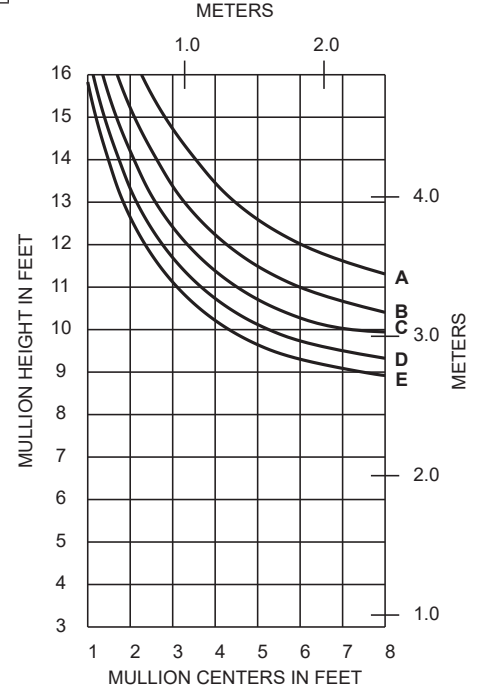
521CG209 & 521CG210 WITH HORIZONTALS



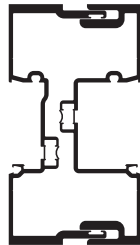
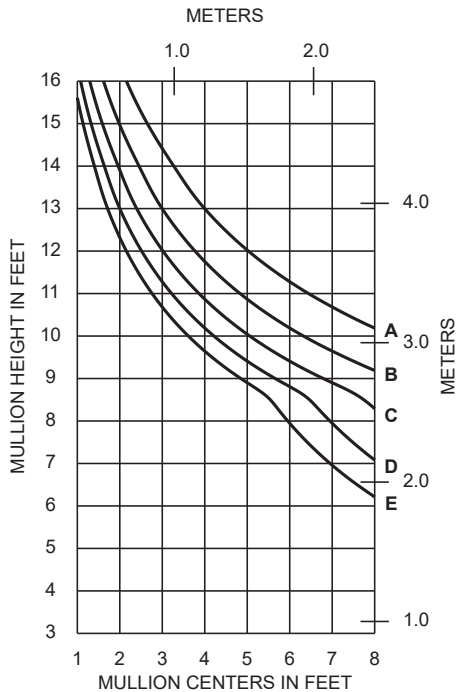
521CG209 / 521CG210 (IR 521)

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

521CG209 & 521CG210 WITHOUT HORIZONTALS



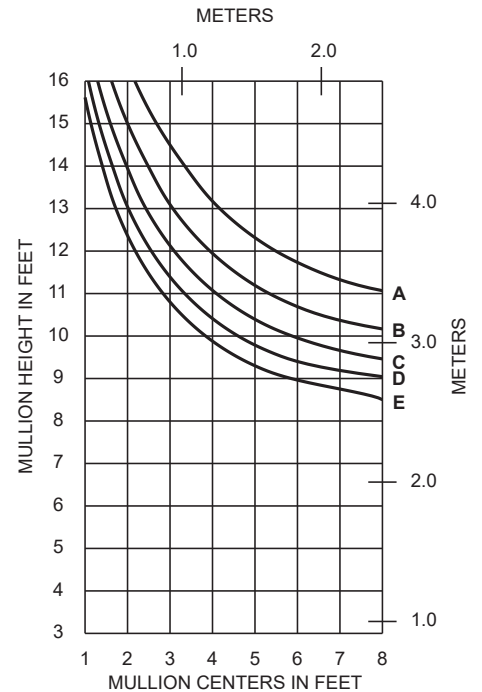
521TCG209 & 521TCG210 WITH HORIZONTALS



521TCG209 / 521TCG210 (IR 521T)

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

521TCG209 & 521TCG210 WITHOUT HORIZONTALS



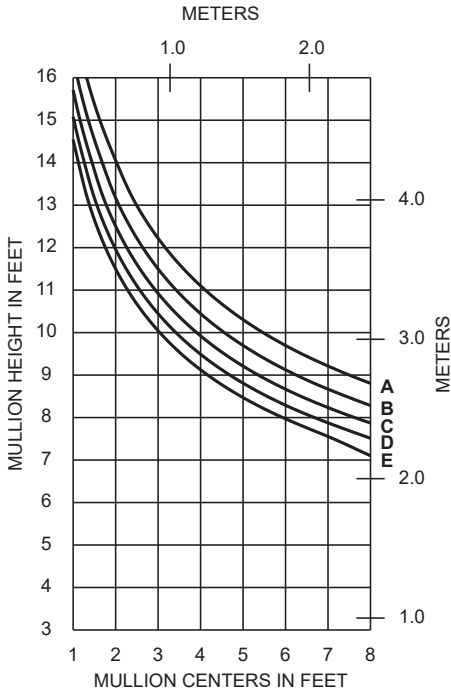
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	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)

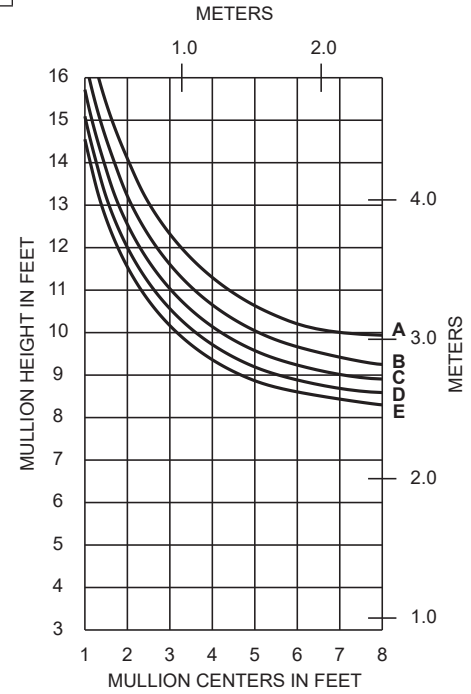
521CG240 & 521CG340 WITH HORIZONTALS



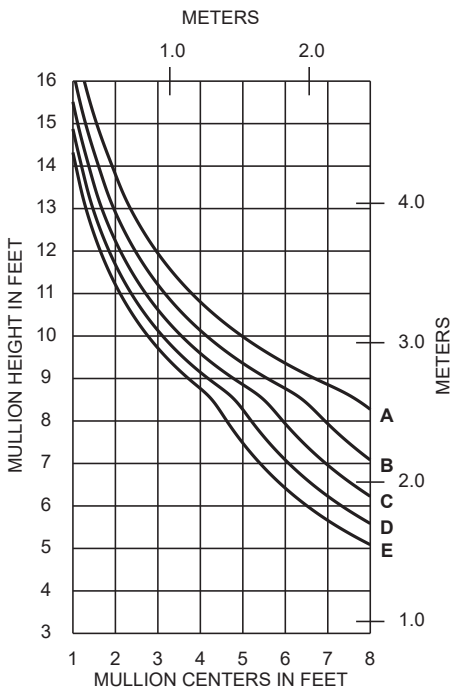
521CG240 / 521CG340 (IR 521)

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

521CG240 & 521CG340 WITHOUT HORIZONTALS



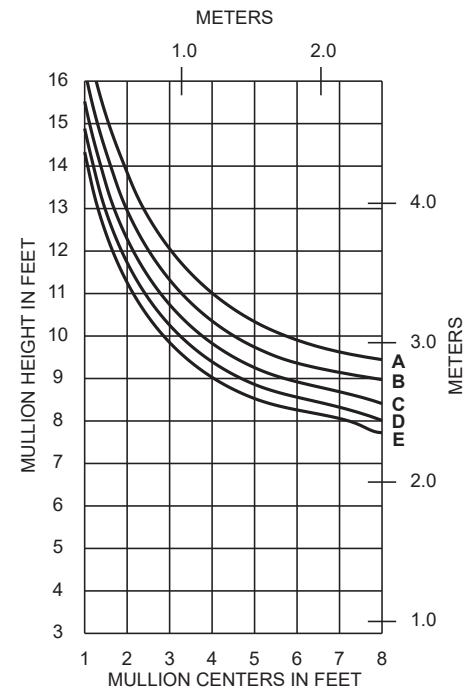
521TCG240 & 521TCG340 WITH HORIZONTALS



521TCG240 / 521TCG340 (IR 521T)

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

521TCG240 & 521TCG340 WITHOUT HORIZONTALS

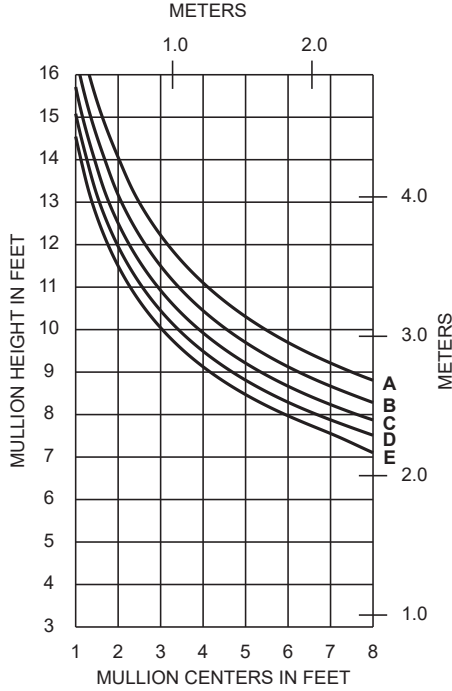


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	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)

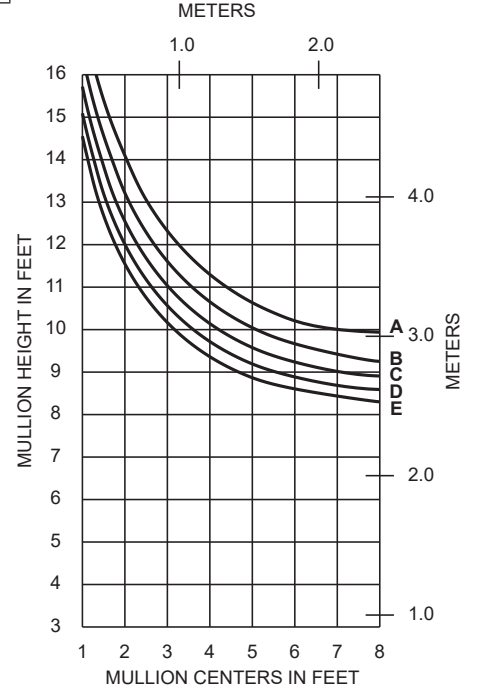
521CG540 & 521CG340 WITH HORIZONTALS



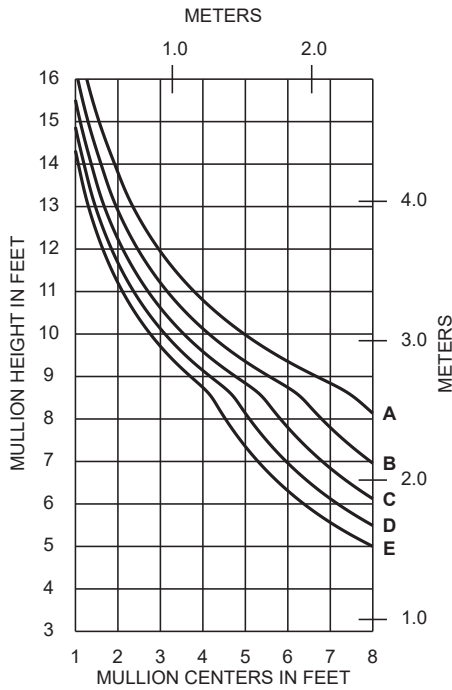
521CG540 / 521CG340 (IR 521)

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

521CG540 & 521CG340 WITHOUT HORIZONTALS



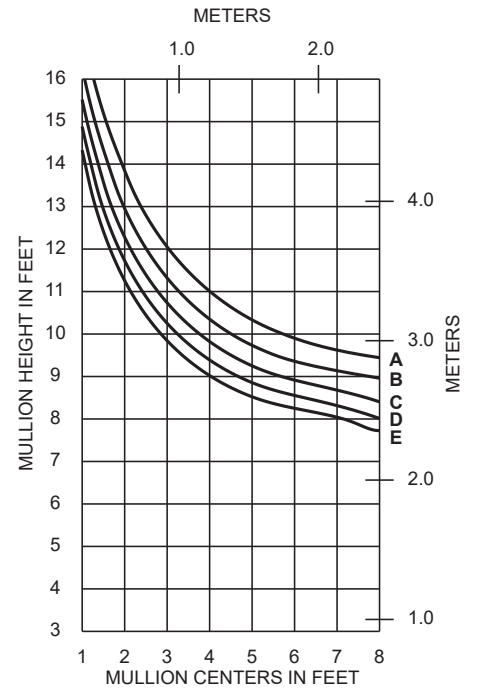
521TCG540 & 521TCG340 WITH HORIZONTALS



521TCG540 / 521TCG340 (IR 521T)

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

521TCG540 & 521TCG340 WITHOUT HORIZONTALS



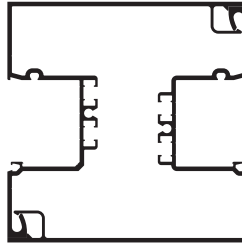
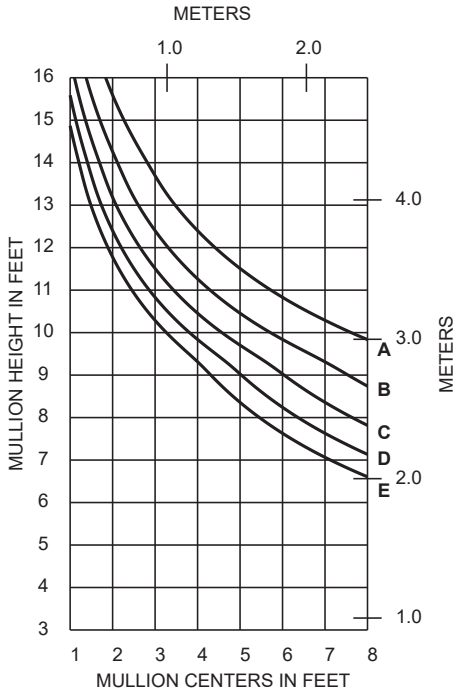
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	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

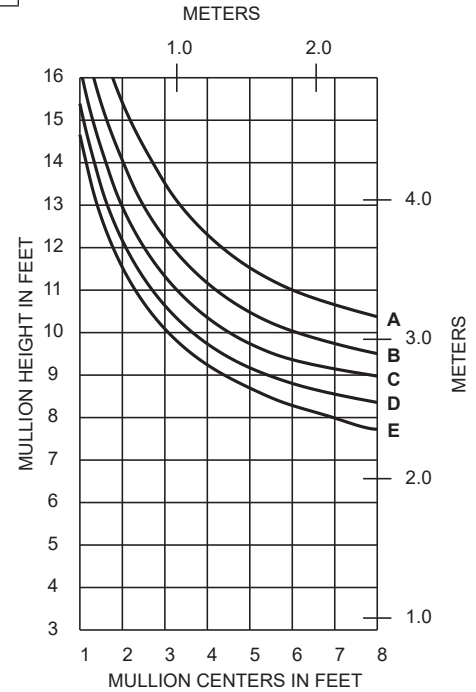
521CG316 & 521CG116 WITH HORIZONTALS



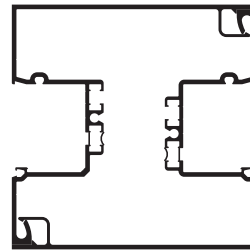
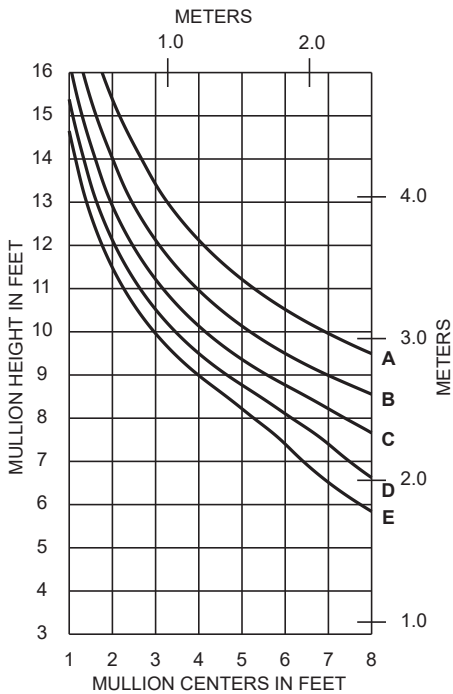
521CG316 / 521CG116 (IR 521)

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

521CG316 & 521CG116 WITHOUT HORIZONTALS



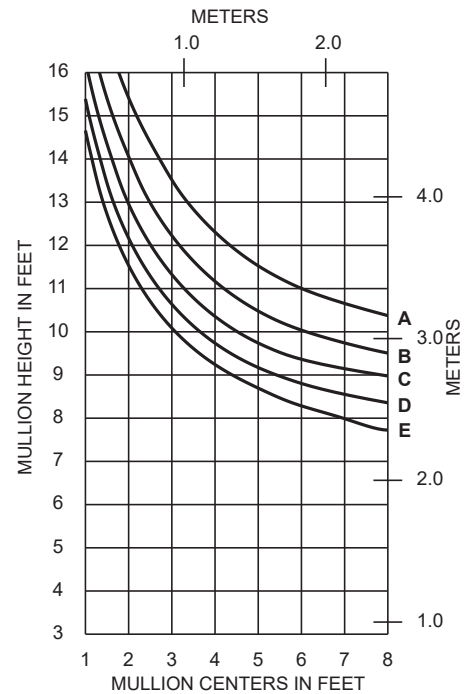
521CGT316 & 521TCG116 WITH HORIZONTALS



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



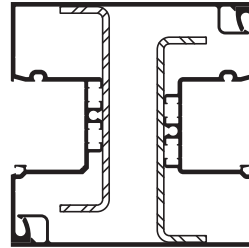
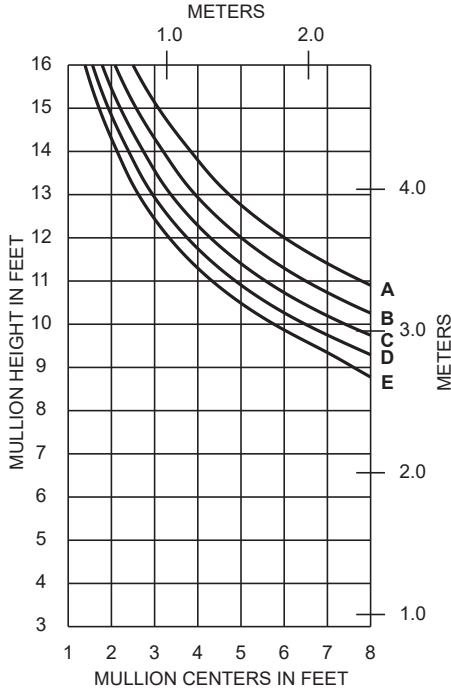
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	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)

521CG316 & 521CG116 & 575300 WITH HORIZONTALS



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

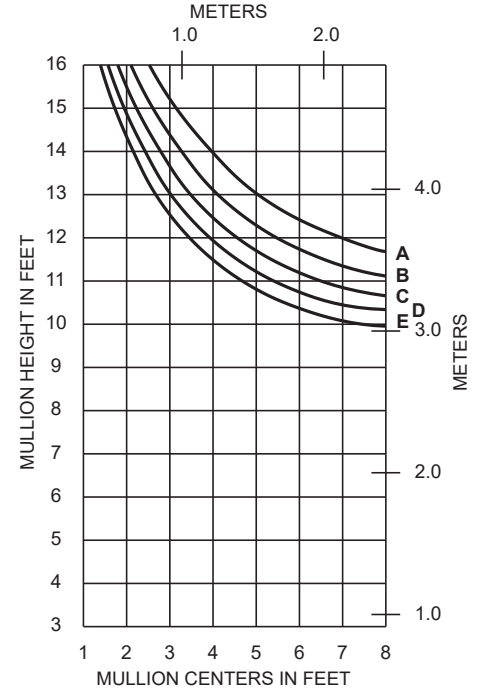
$$I_{SA} = 7.693 \text{ in}^4 \text{ (} 320.21 \times 10^4 \text{ mm}^4 \text{)}$$

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

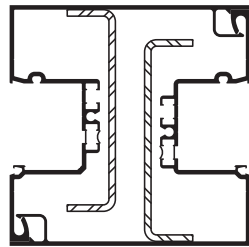
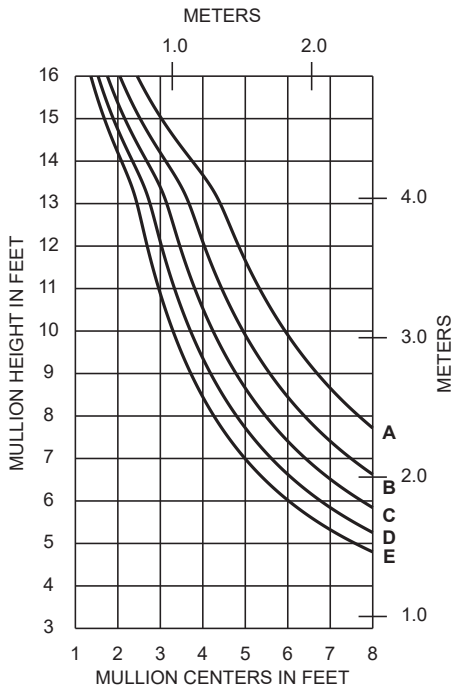
$$I_{SS} = 3.368 \text{ in}^4 \text{ (} 140.19 \times 10^4 \text{ mm}^4 \text{)}$$

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

521CG316 & 521CG116 & 575300 WITHOUT HORIZONTALS



521TCG316 & 521TCG116 & 575300 WITH HORIZONTALS



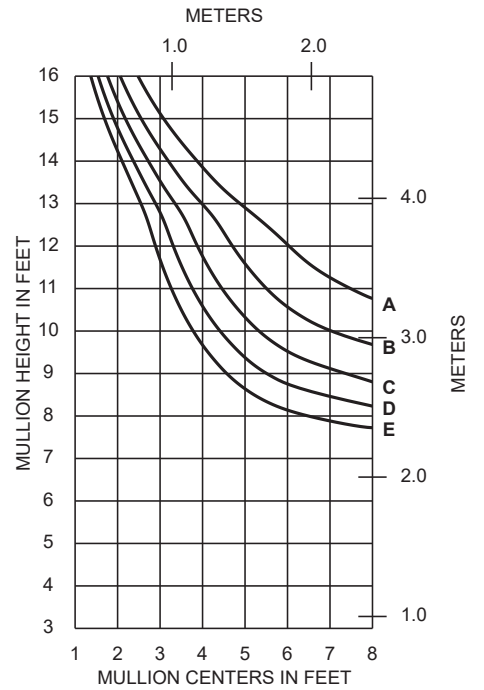
521TCG316 / 521TCG116 WITH 575300 STEEL (IR 521T)

$$I_{SS} = 3.368 \text{ in}^4 \text{ (} 140.19 \times 10^4 \text{ mm}^4 \text{)}$$

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

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

521TCG316 & 521TCG116 & 575300 WITHOUT HORIZONTALS



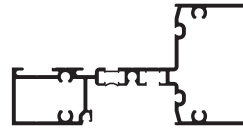
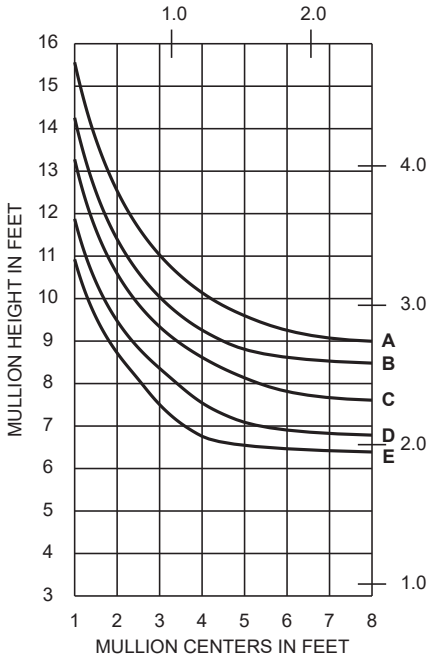
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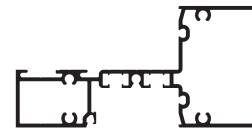
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	70 PSF (3360)	117 PSF (5600)
E =	90 PSF (4310)	150 PSF (7200)

521CG011
SINGLE SPAN
METERS



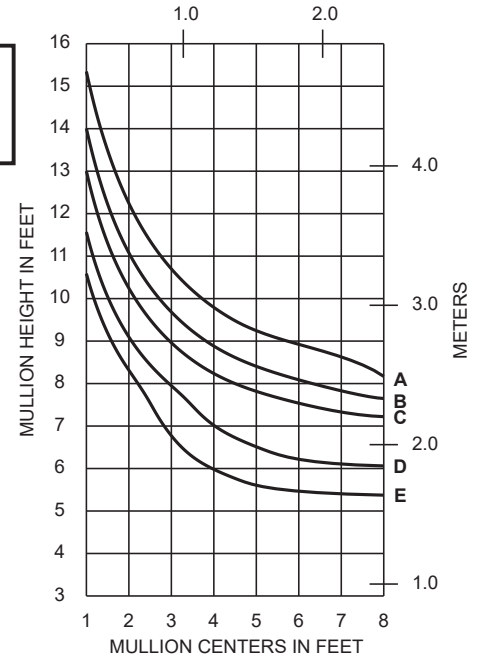
521TCG011
(IR 521T)

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

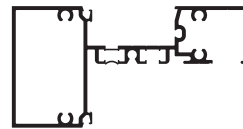
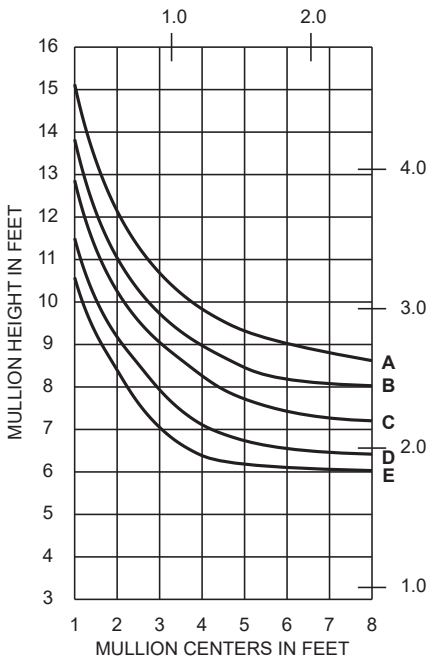


521CG011
(IR 521)

521TCG011
SINGLE SPAN
METERS

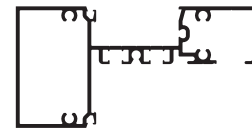


521CG311
SINGLE SPAN
METERS



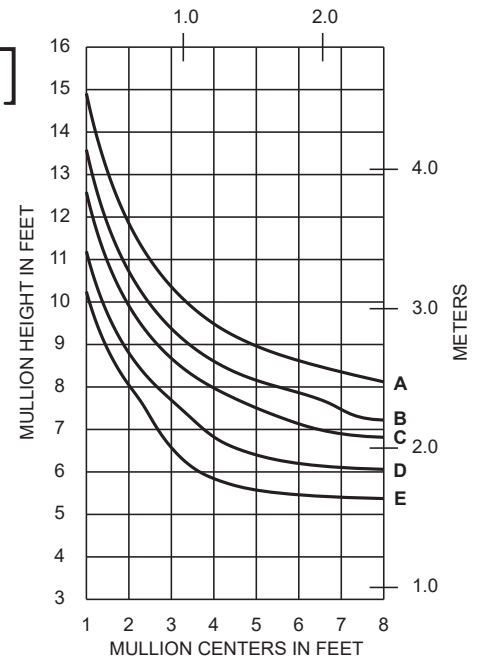
521TCG311
(IR 521T)

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



521CG311
(IR 521)

521TCG311
SINGLE SPAN
METERS



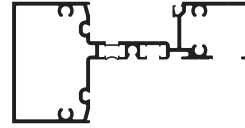
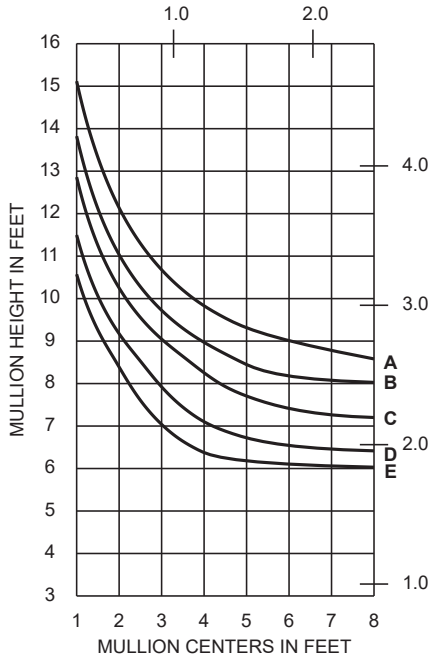
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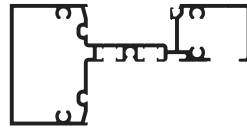
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	70 PSF (3360)	117 PSF (5600)
E =	90 PSF (4310)	150 PSF (7200)

521CG111
SINGLE SPAN
METERS



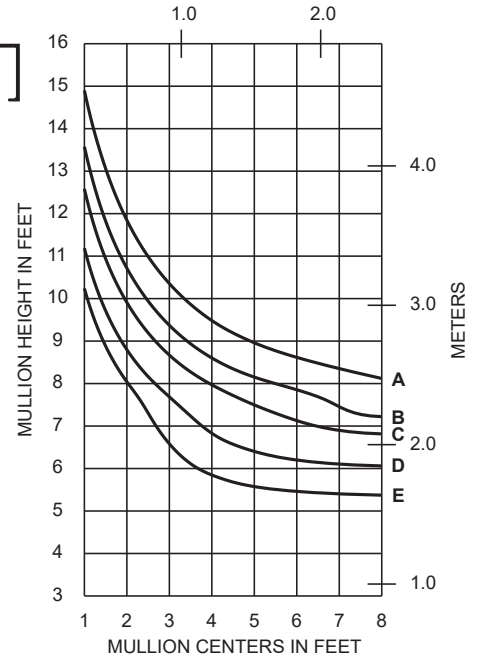
521TCG111
(IR 521T)

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

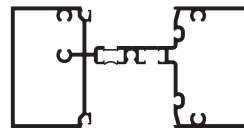
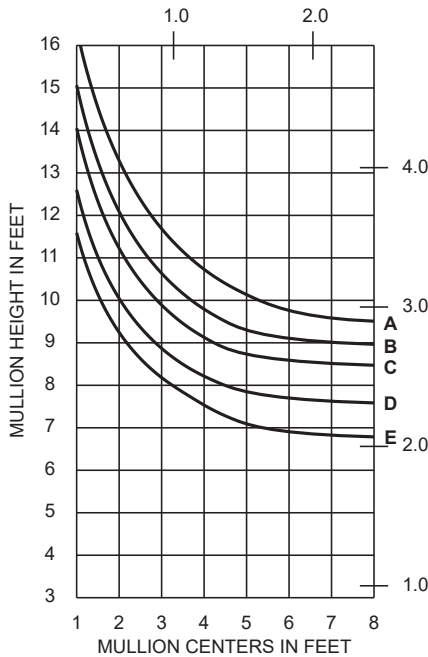


521CG111
(IR 521)

521TCG111
SINGLE SPAN
METERS

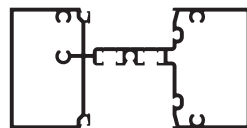


521CG211
SINGLE SPAN
METERS



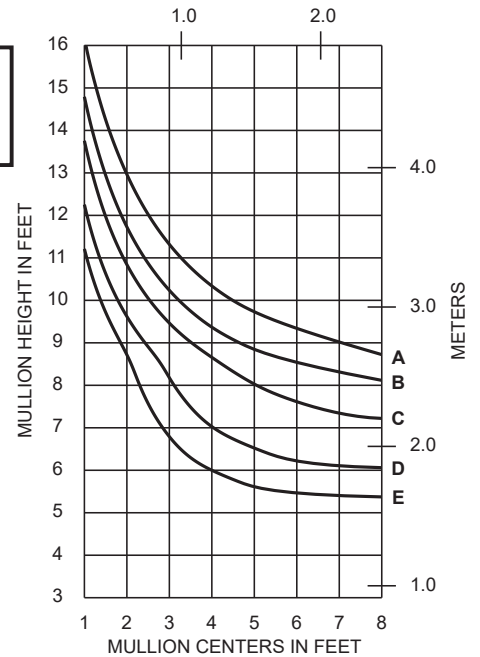
521TCG311
(IR 521T)

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



521CG211
(IR 521)

521TCG311
SINGLE SPAN
METERS

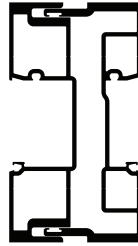
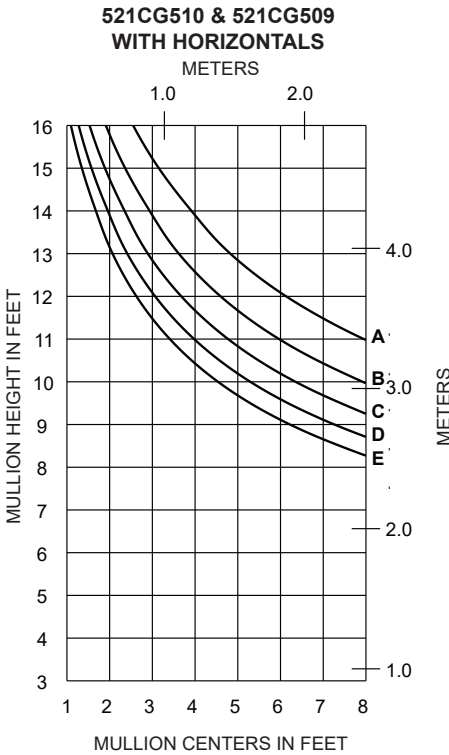


Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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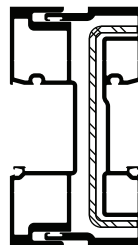
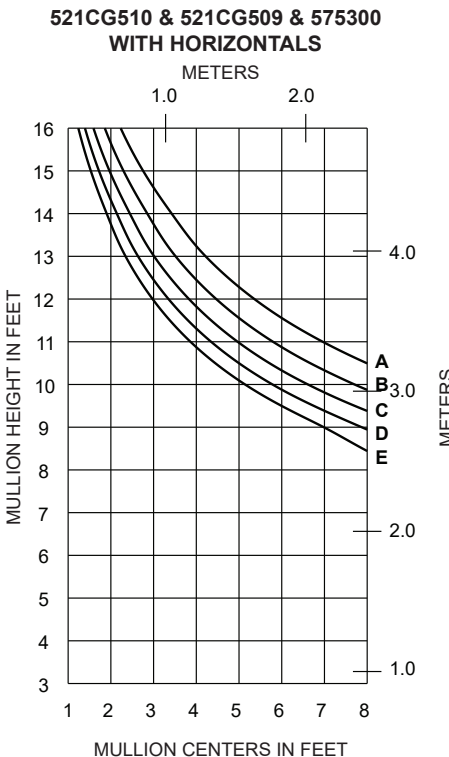
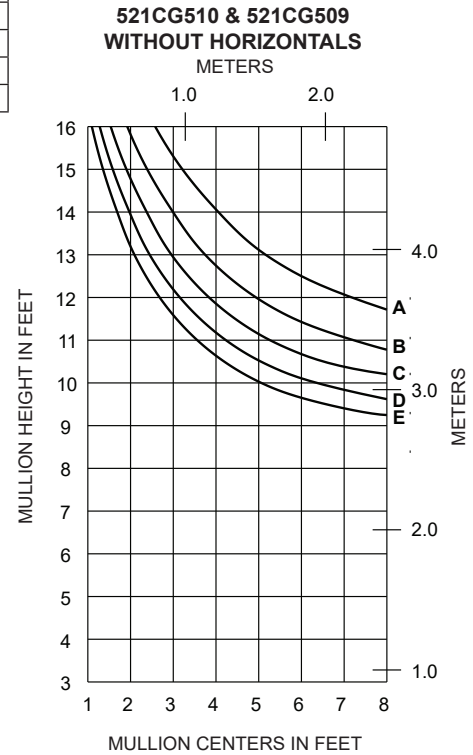
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)



521CG510 / 521CG509 (IR 521)

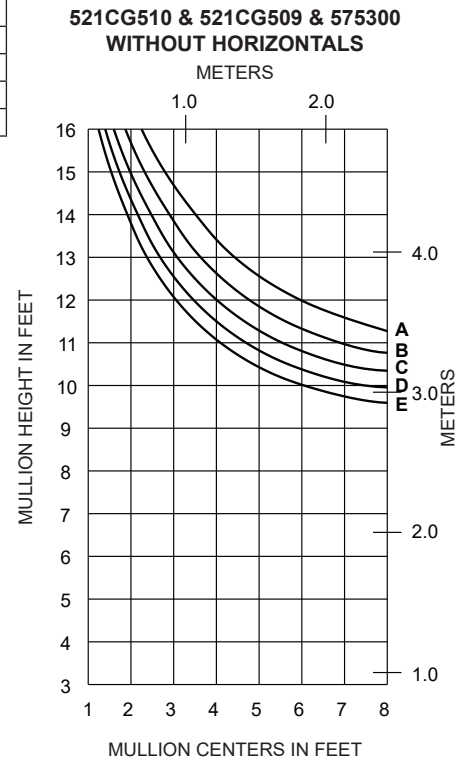
$I_A = 10.687 \text{ in}^4 (444.83 \times 10^4 \text{ mm}^4)$
 $S_A = 4.26 \text{ in}^3 (69.81 \times 10^3 \text{ mm}^3)$

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



521CG510 / 521CG509 WITH 575300 STEEL (IR 521)

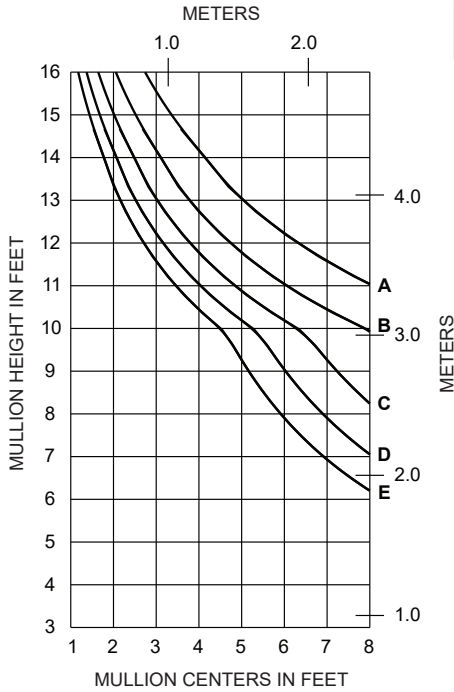
$I_S = 1.684 \text{ in}^4 (80.54 \times 10^4 \text{ mm}^4)$
 $S_S = 0.804 \text{ in}^3 (15.37 \times 10^3 \text{ mm}^3)$



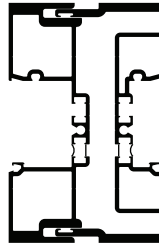
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521TCG410 & 521TCG409 WITH HORIZONTALS



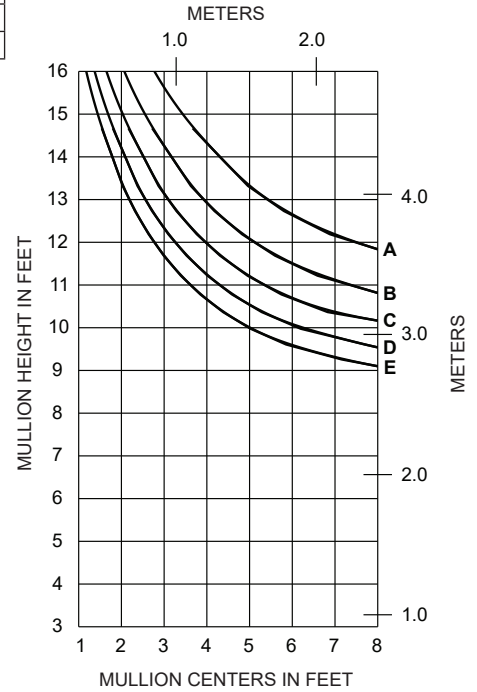
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)



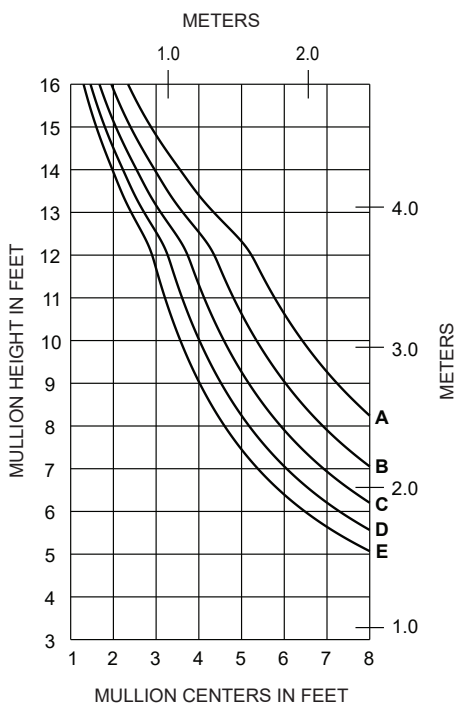
521TCG410 / 521TCG409 (IR 521T)

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

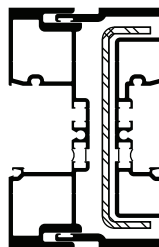
521TCG410 & 521TCG409 WITHOUT HORIZONTALS



521TCG410 & 521TCG409 & 575300 WITH HORIZONTALS



	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)

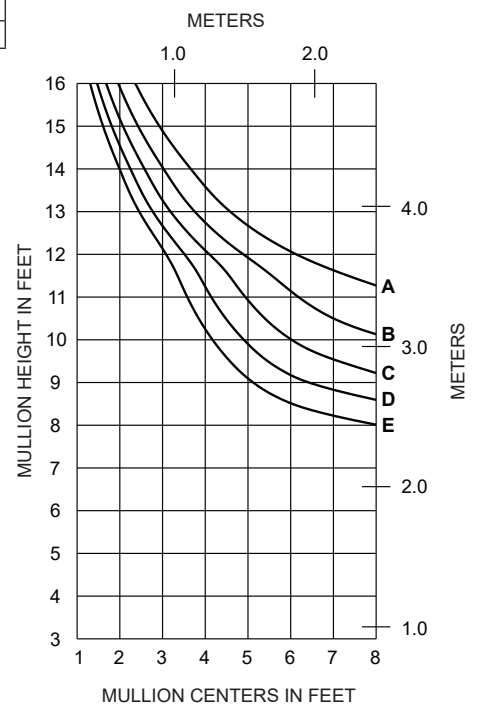


521TCG410 / 521TCG409 WITH 575300 STEEL (IR 521T)

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

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

521TCG410 & 521TCG409 & 575300 WITHOUT HORIZONTALS



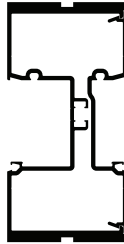
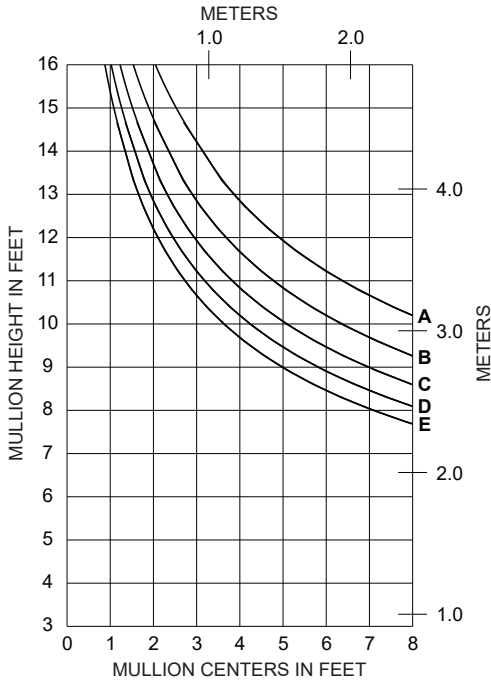
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 HURRICANE RESISTANT PRODUCT

	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)

521CG441 & 521CG502 WITH HORIZONTALS

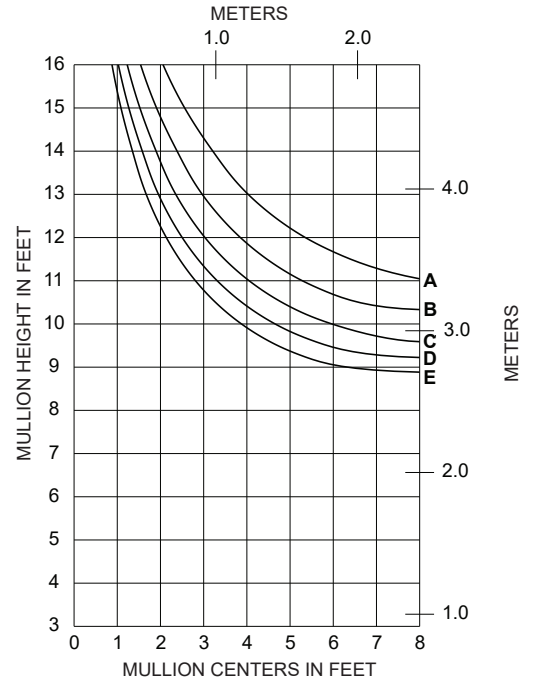


521CG441 / 521CG502 (IR 521)

$I_A = 8.573 \text{ in}^4 (356.83 \times 10^4 \text{ mm}^4)$
 $S_A = 3.447 \text{ in}^3 (56.49 \times 10^3 \text{ mm}^3)$

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

521CG441 & 521CG502 WITHOUT HORIZONTALS



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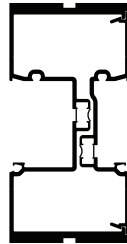
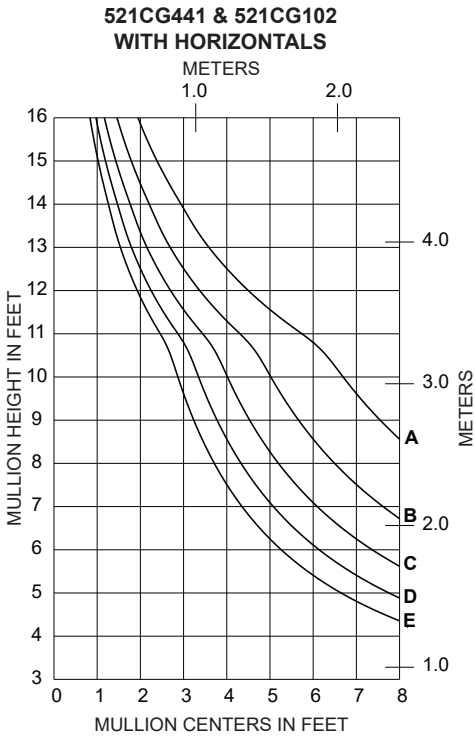
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	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

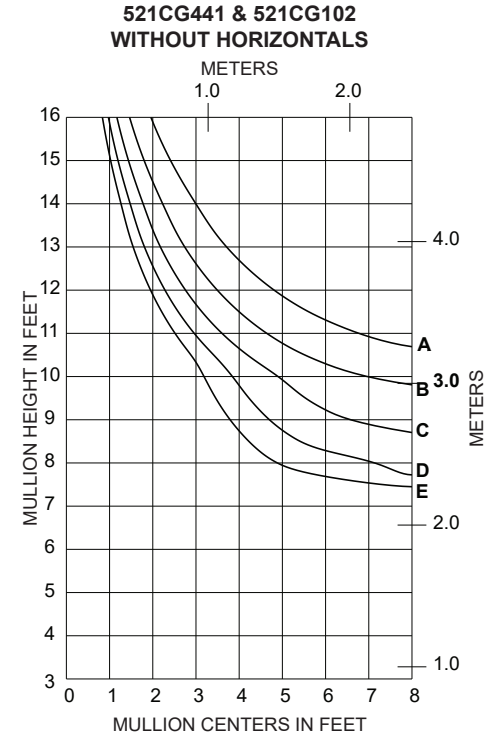
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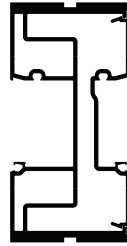
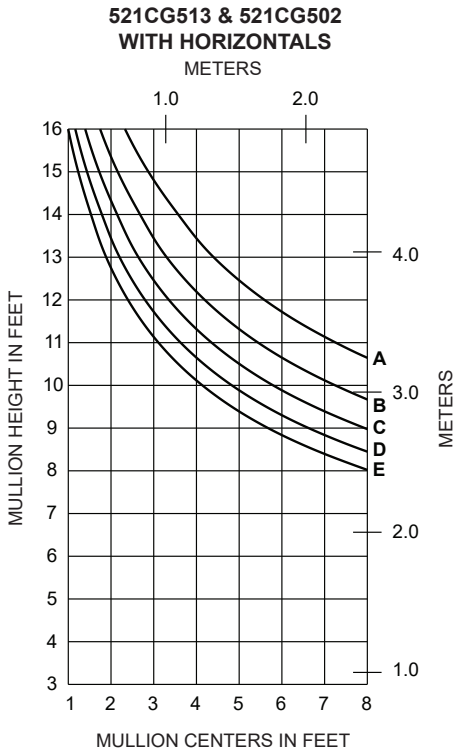
521CG441 / 521CG102 (IR 521)

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





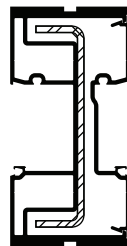
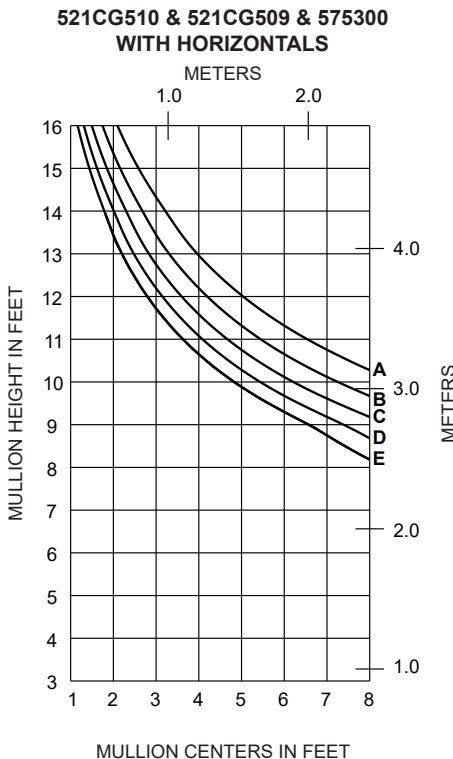
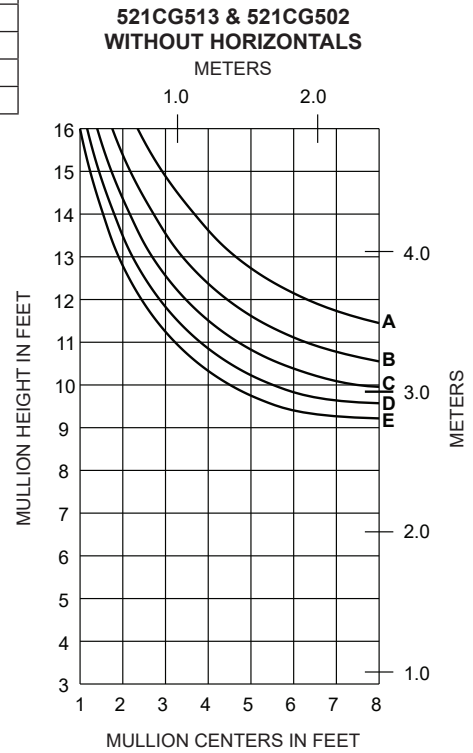
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)



521CG513 / 521CG502 (IR 521)

$I_A = 10.687 \text{ in}^4 (444.83 \times 10^4 \text{ mm}^4)$
 $S_A = 4.26 \text{ in}^3 (69.81 \times 10^3 \text{ mm}^3)$

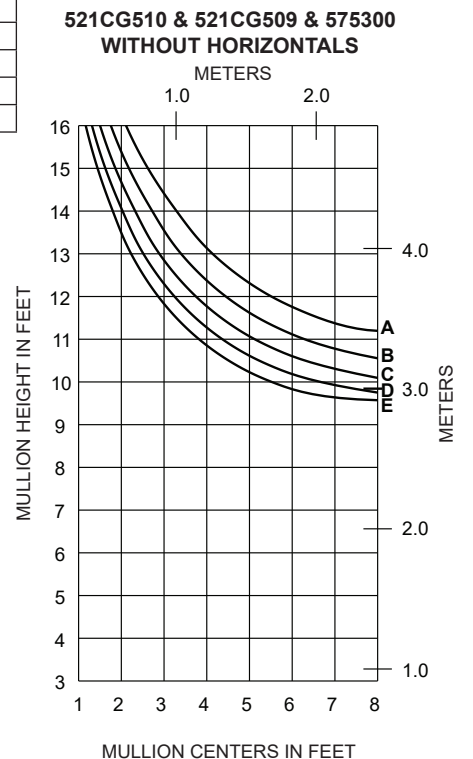
WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505



521CG510 / 521CG509 WITH 575300 STEEL (IR 521)

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

	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)



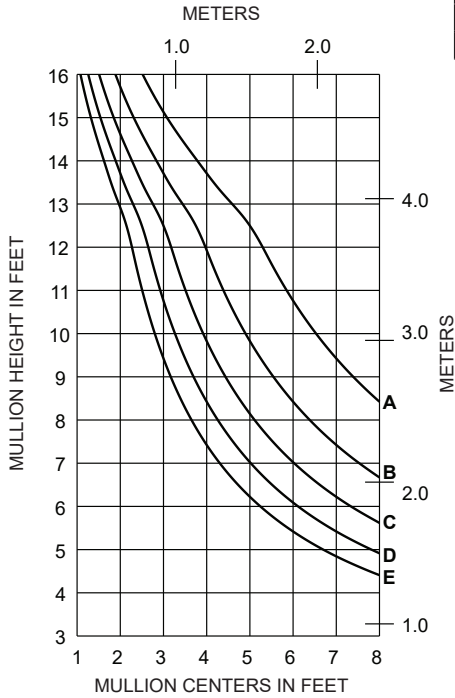
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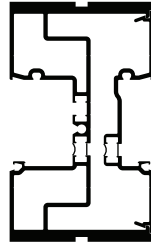
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521TCG413 & 521TCG102 WITH HORIZONTALS



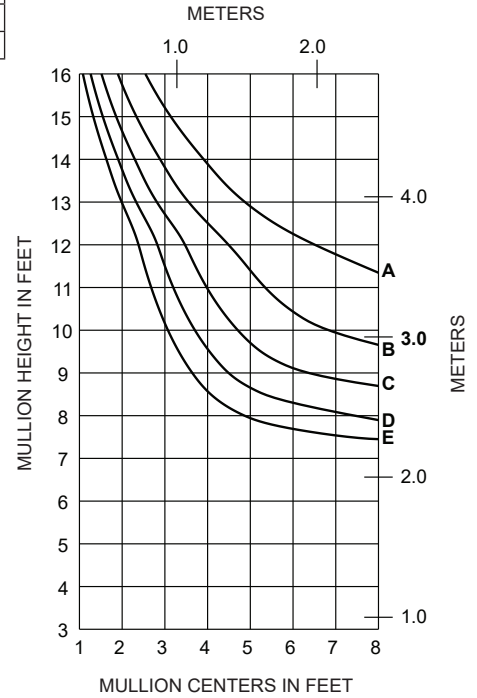
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)



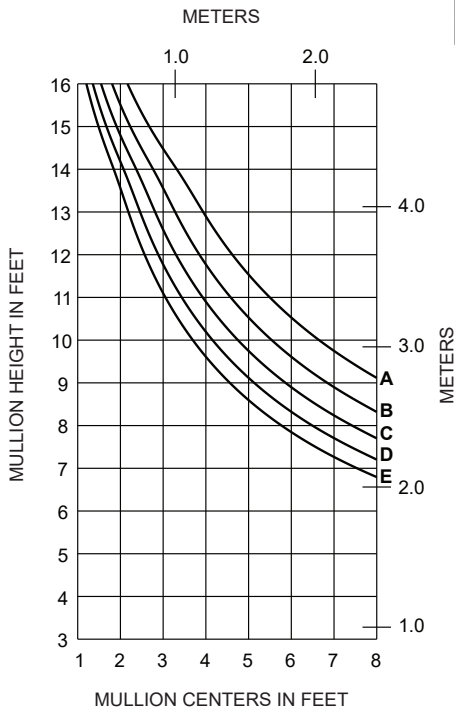
521TCG413 / 521TCG102 (IR 521T)

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

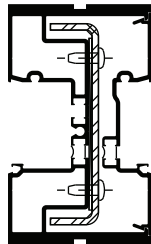
521TCG413 & 521TCG102 WITHOUT HORIZONTALS



521TCG413 & 521TCG102 & 575300 WITH HORIZONTALS



	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)

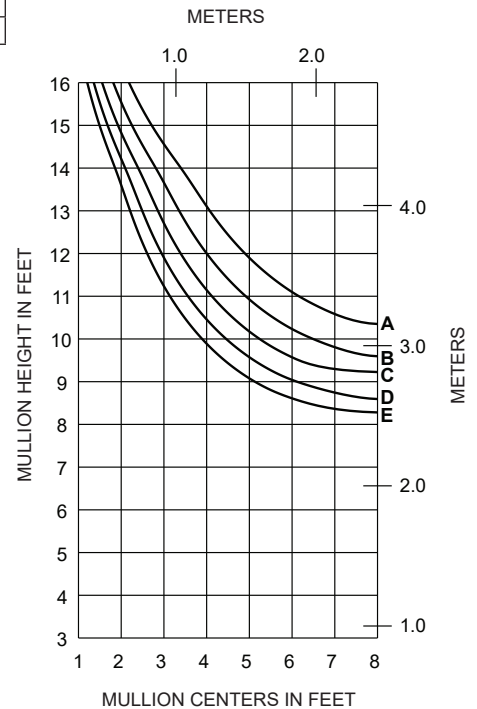


521TCG413 / 521TCG102 WITH 575300 STEEL (IR 521T)

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

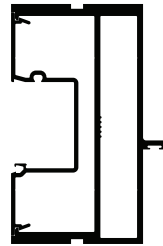
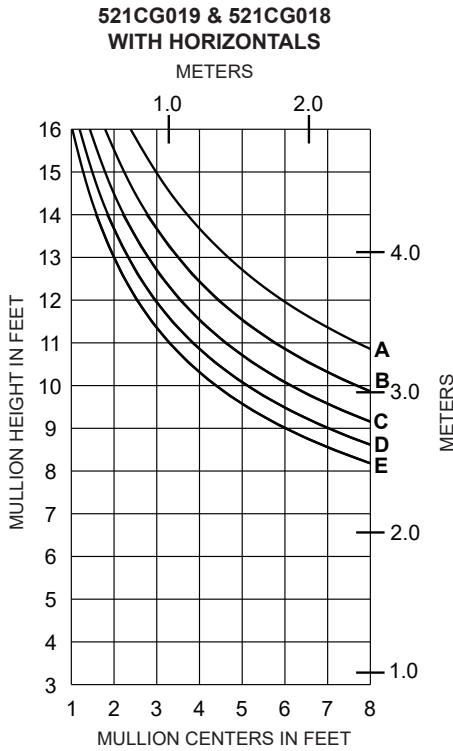
WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

521TCG413 & 521TCG102 & 575300 WITHOUT HORIZONTALS



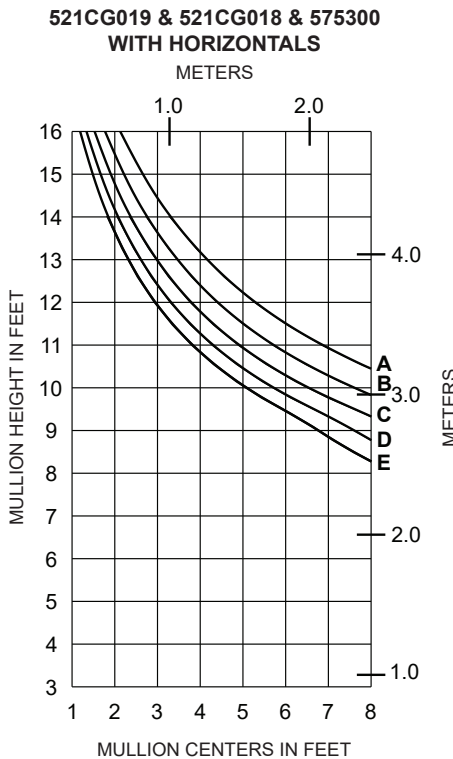
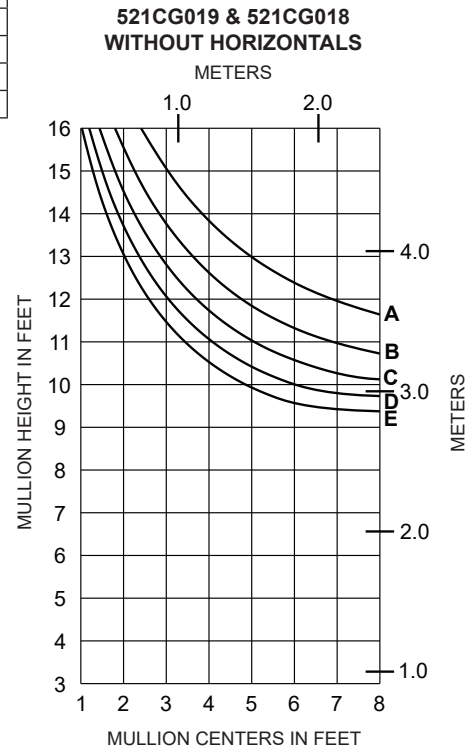


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

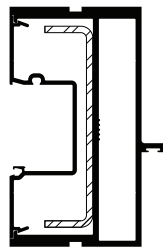


521CG019 / 521CG018 (IR 521)

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

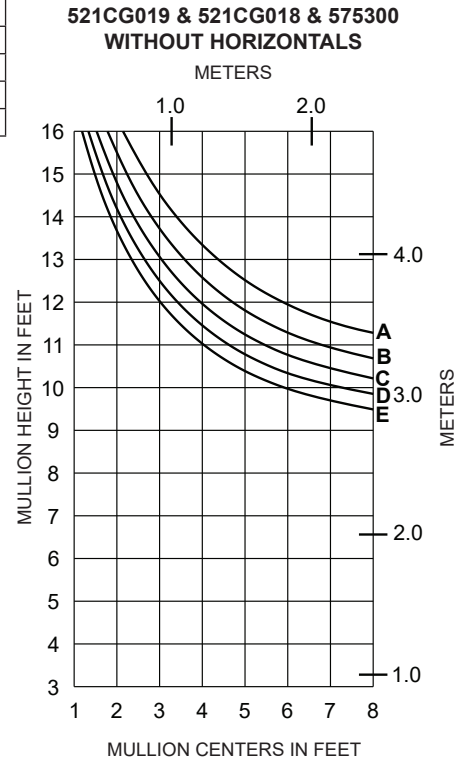


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)



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

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



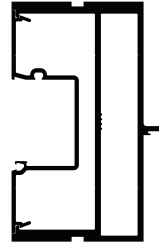
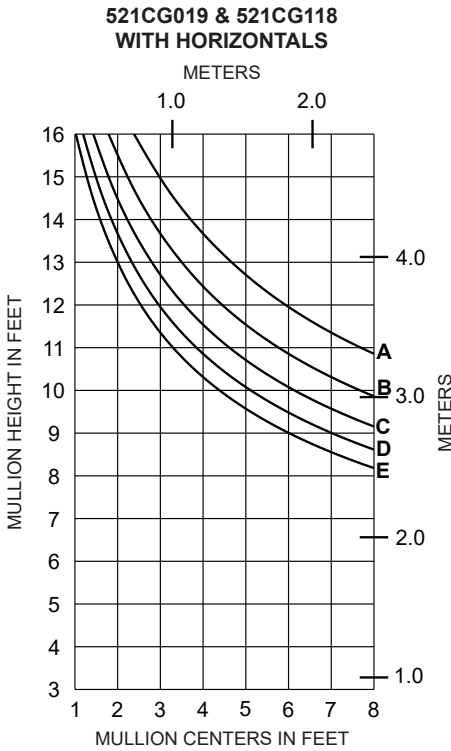
Lawns and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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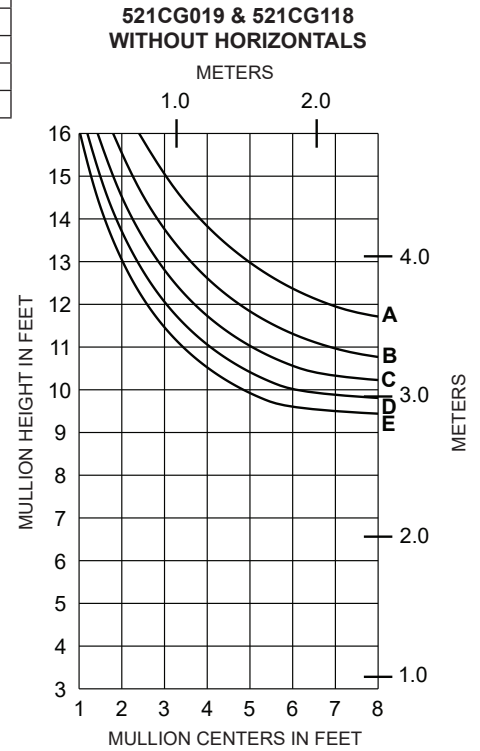
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	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

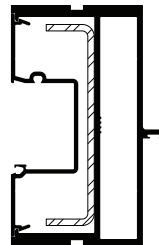
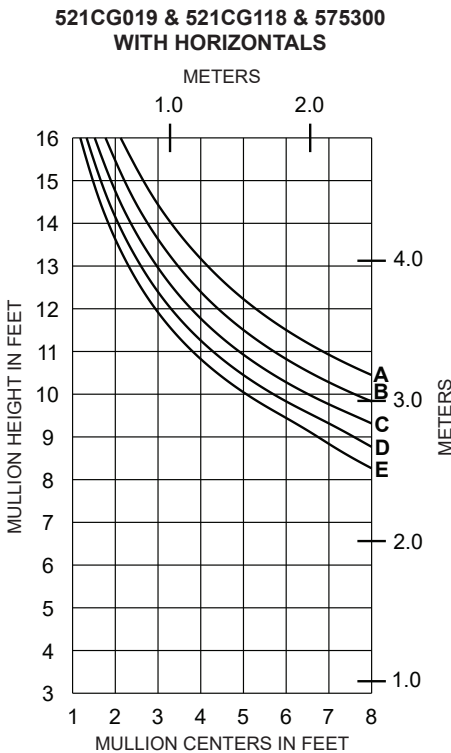


521CG019 / 521CG118 (IR 521)

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

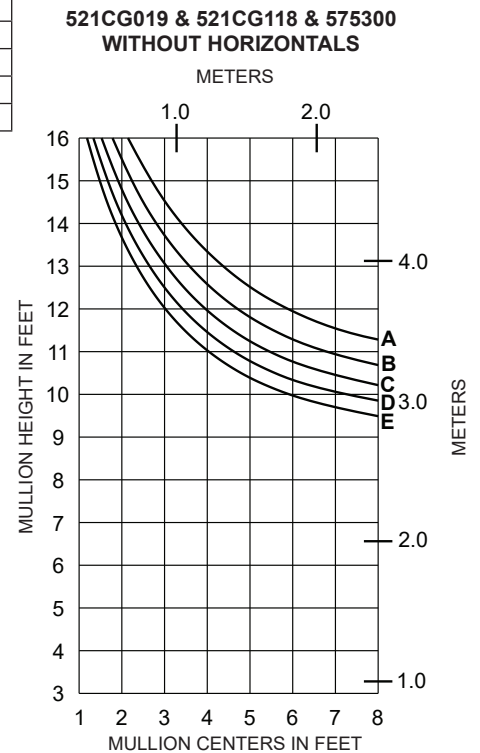


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)



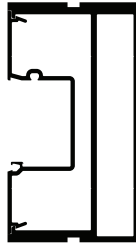
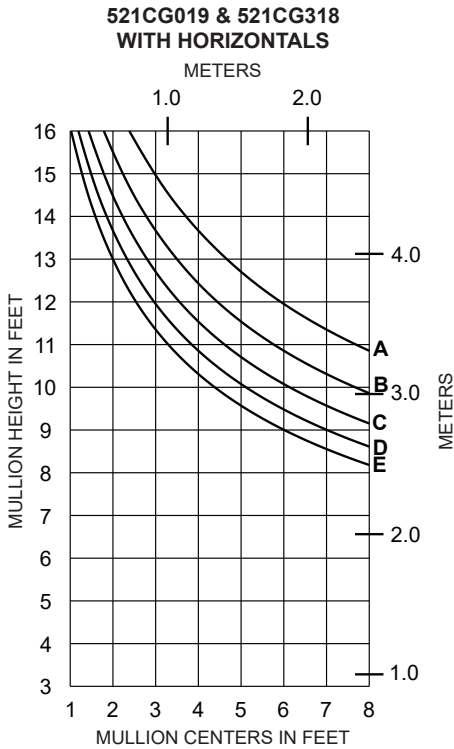
521CG019 / 521CG118 WITH 575300 STEEL (IR 521)

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



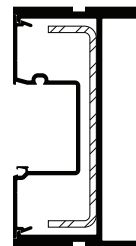
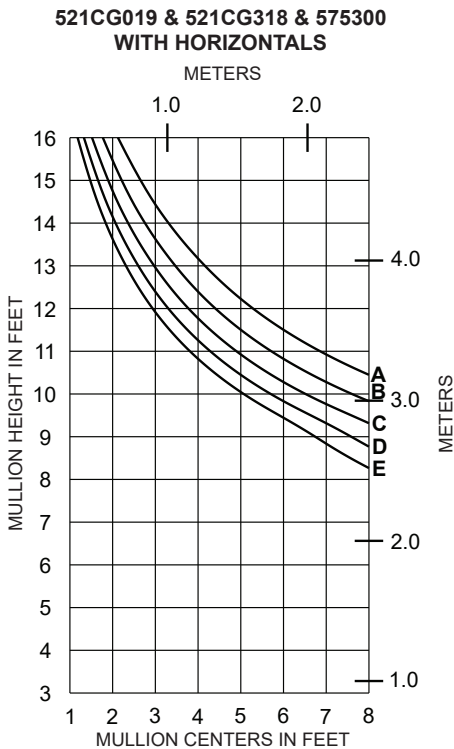
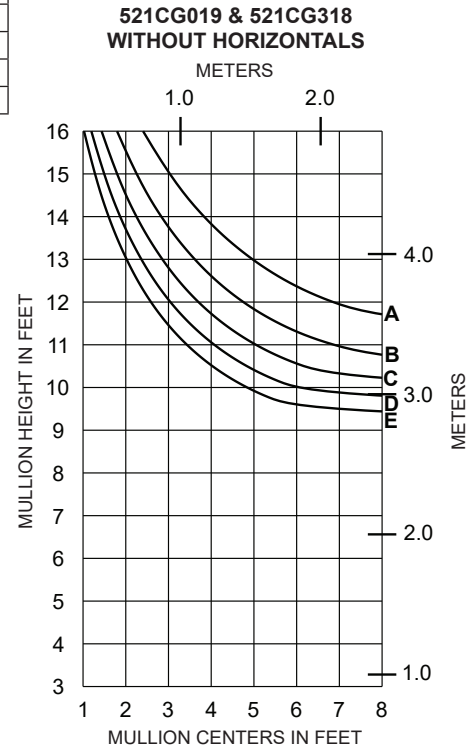


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)



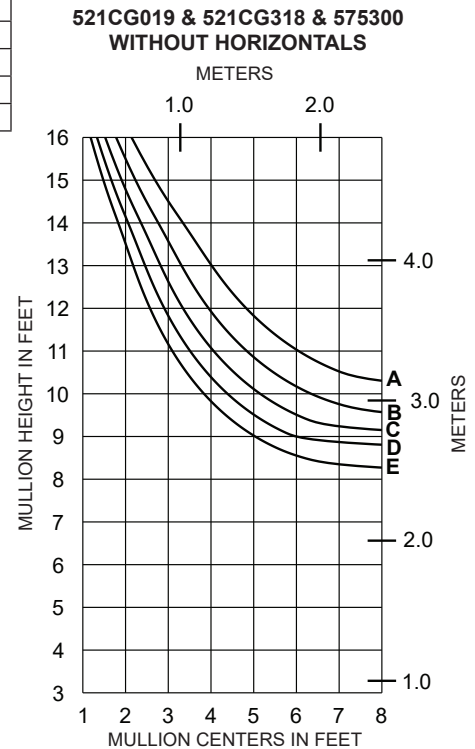
521CG019 / 521CG318 (IR 521)

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



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

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



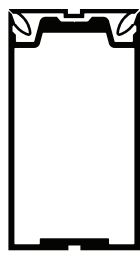
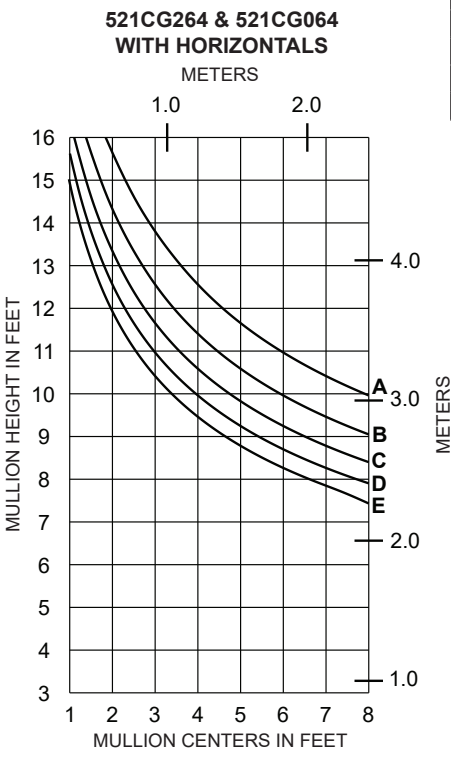
Plans and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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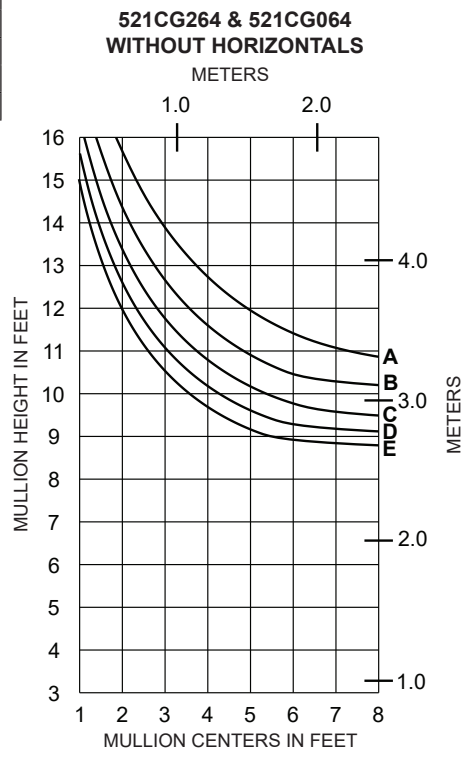
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	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

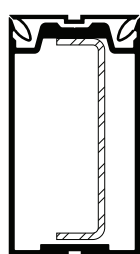
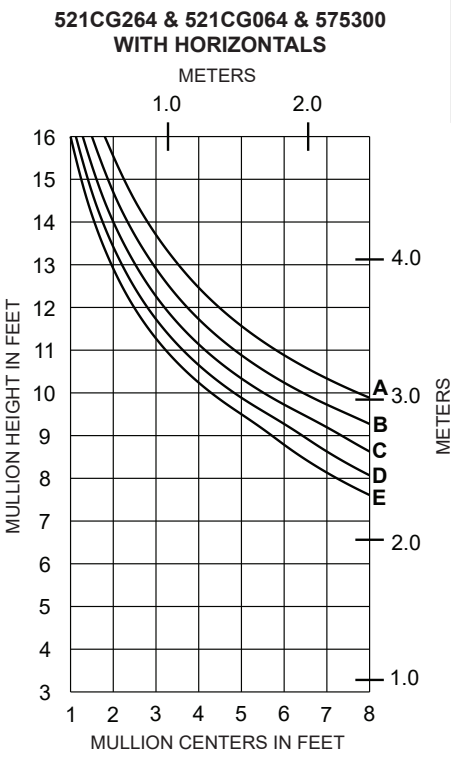


521CG264 / 521CG064 (IR 521)

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

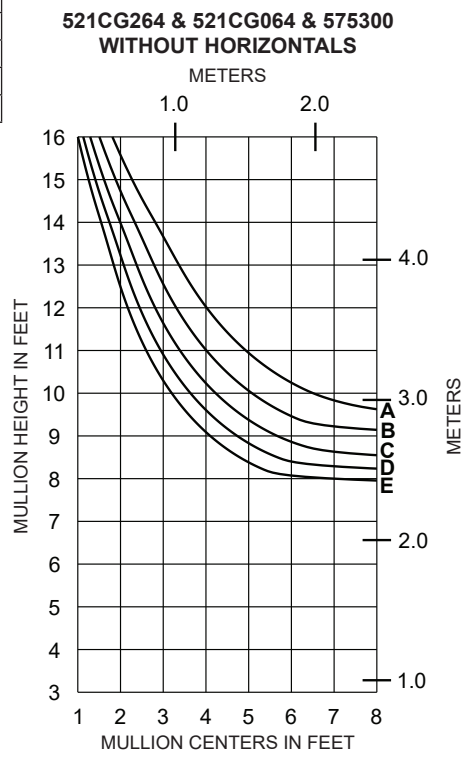


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)



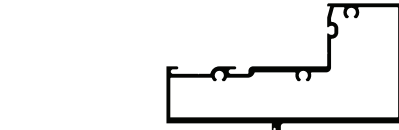
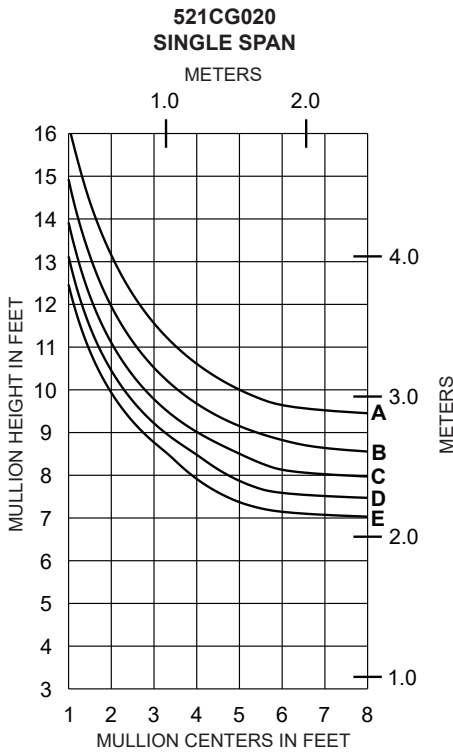
521CG264 / 521CG064 WITH 575300 STEEL (IR 521)

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



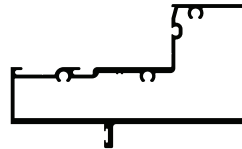


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)



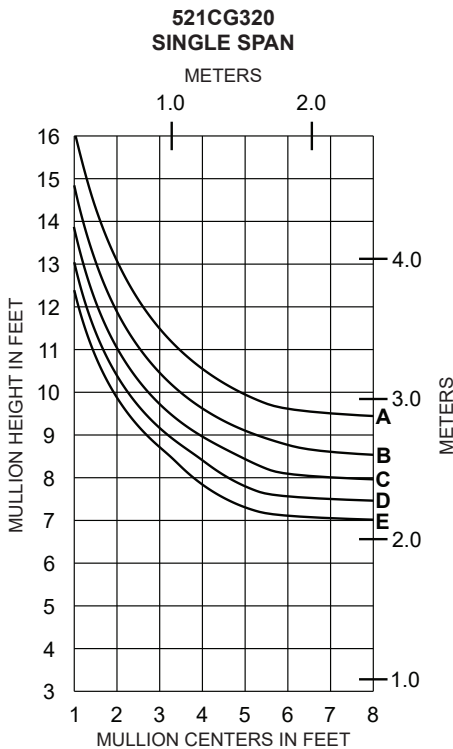
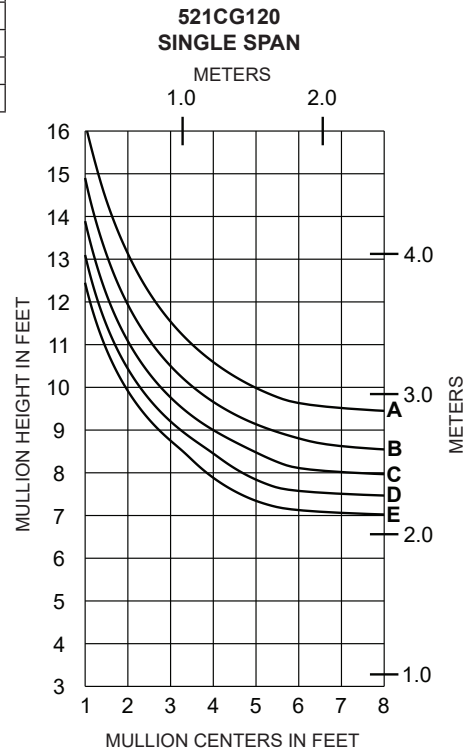
521CG120 (IR 521)

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



521CG020 (IR 521)

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



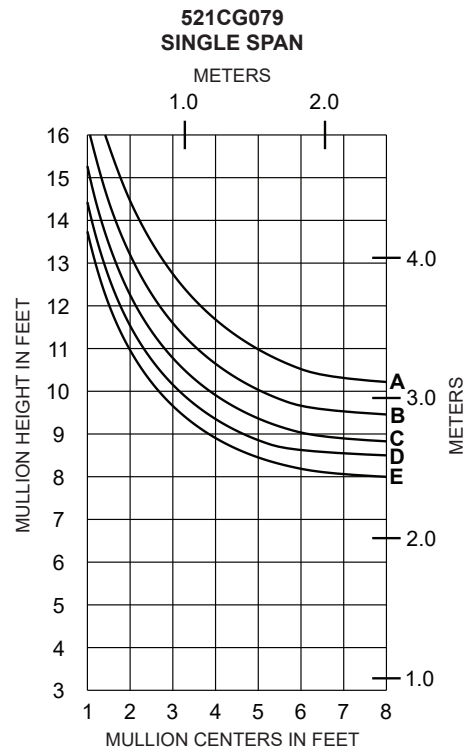
521CG079 (IR 521)

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



521CG320 (IR 521)

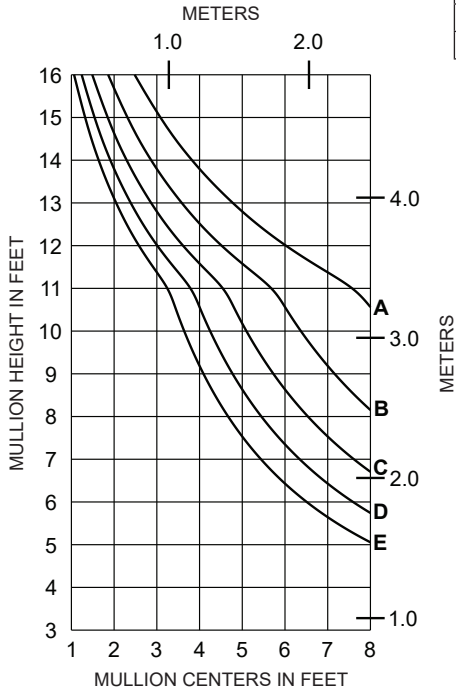
$I_A = 4.373 \text{ in}^4 (182.02 \times 10^4 \text{ mm}^4)$
 $S_A = 1.552 \text{ in}^3 (25.43 \times 10^3 \text{ mm}^3)$



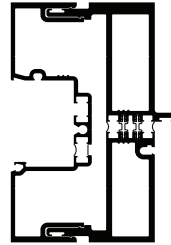
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521CGT610 & 521TCG218 WITH HORIZONTALS



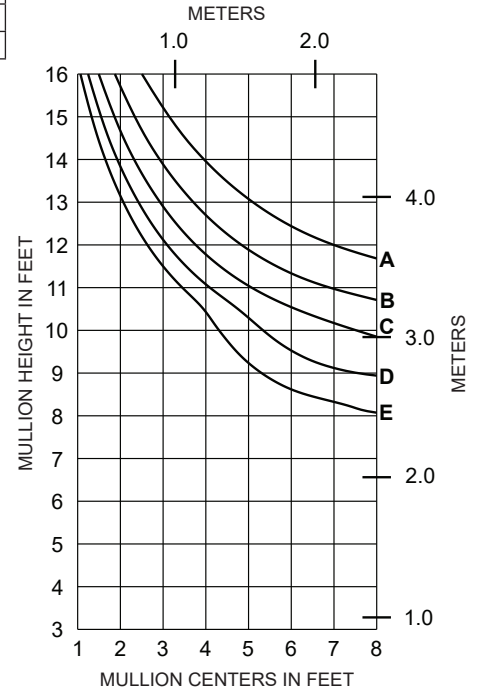
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)



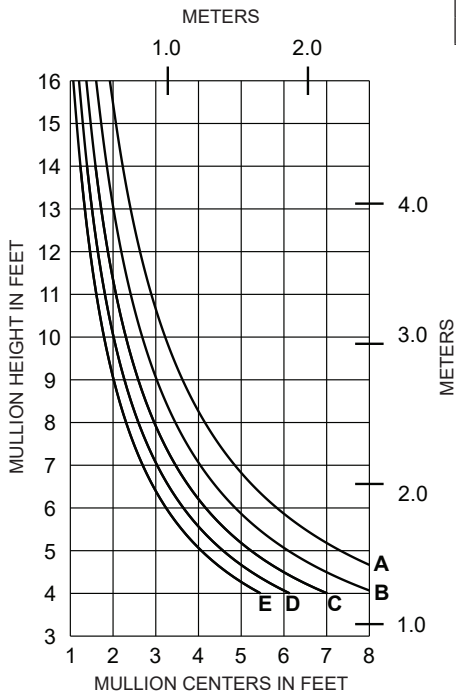
521TCG610 / 521TCG218 (IR 521T)

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

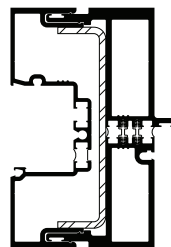
521TCG610 & 521TCG218 WITHOUT HORIZONTALS



521TCG610 & 521TCG218 & 575300 WITH HORIZONTALS



	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)

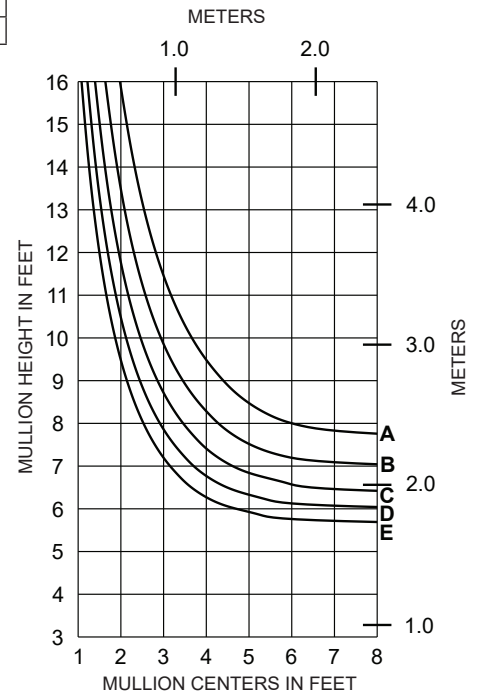


521TCG610 / 521TCG218 WITH 575300 STEEL (IR 521T)

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

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

521TCG610 & 521TCG218 & 575300 WITHOUT HORIZONTALS

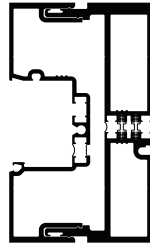
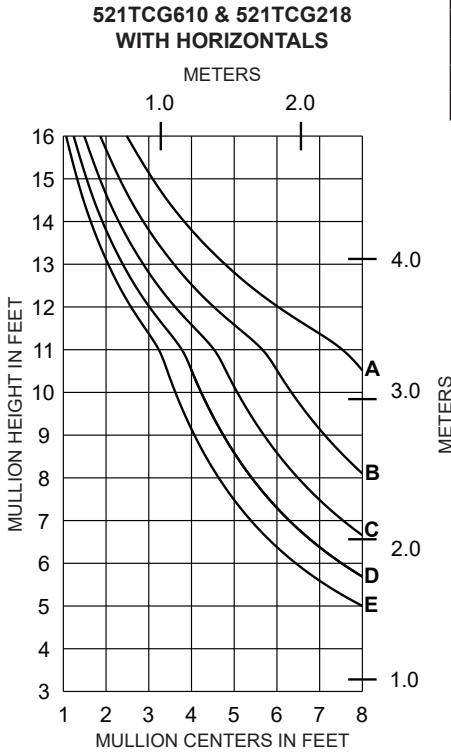


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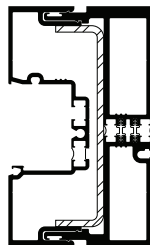
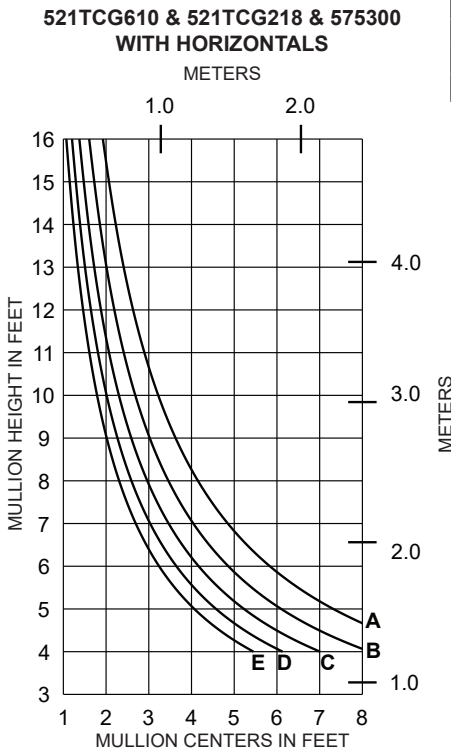
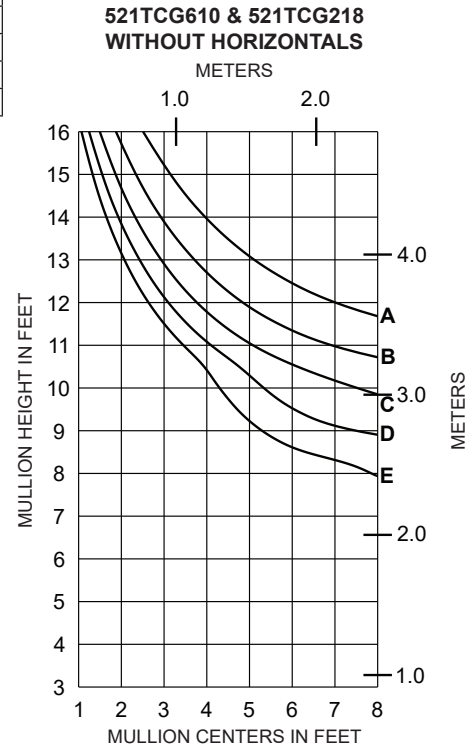


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)



521TCG610 / 521TCG518 (IR 521T)

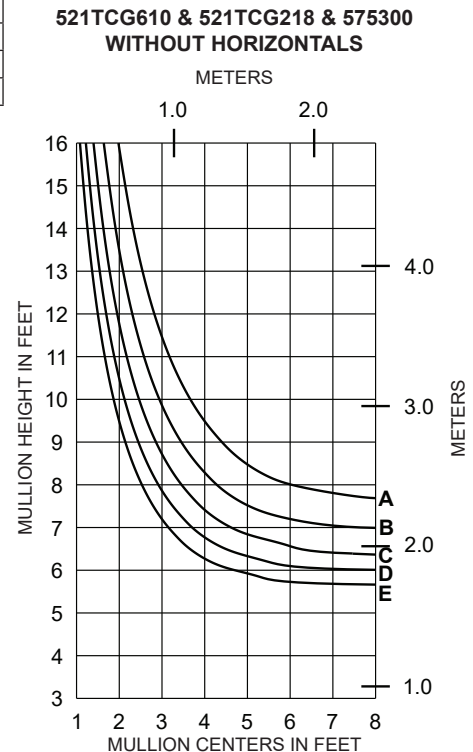
WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505



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

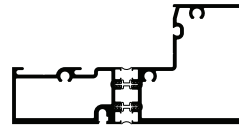
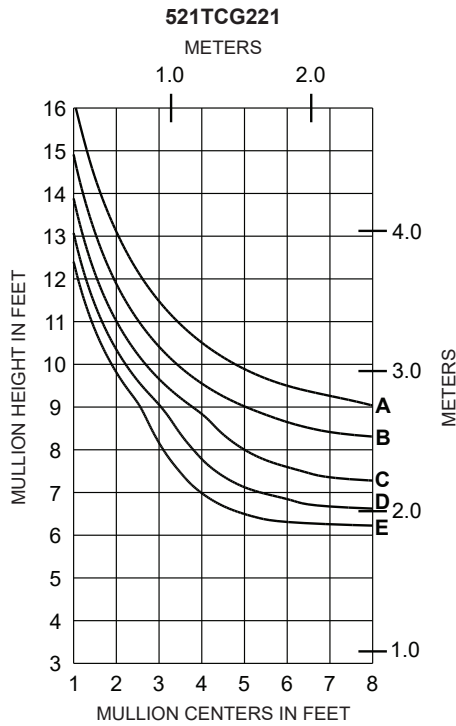


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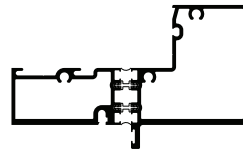
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

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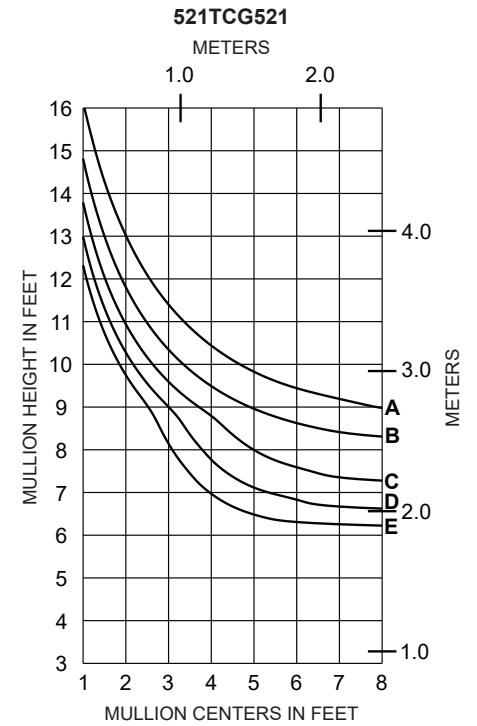


521TCG521
(IR 521T)

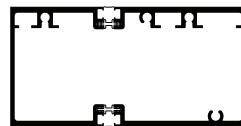
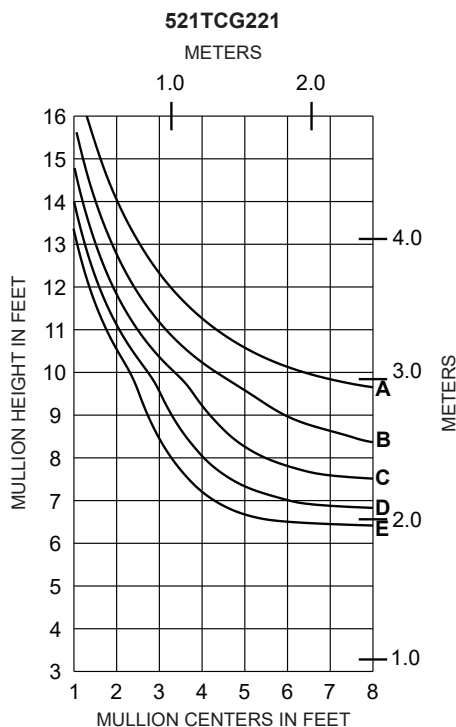
WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505



521TCG221
(IR 521T)



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521TCG079
(IR 521T)

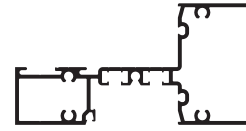
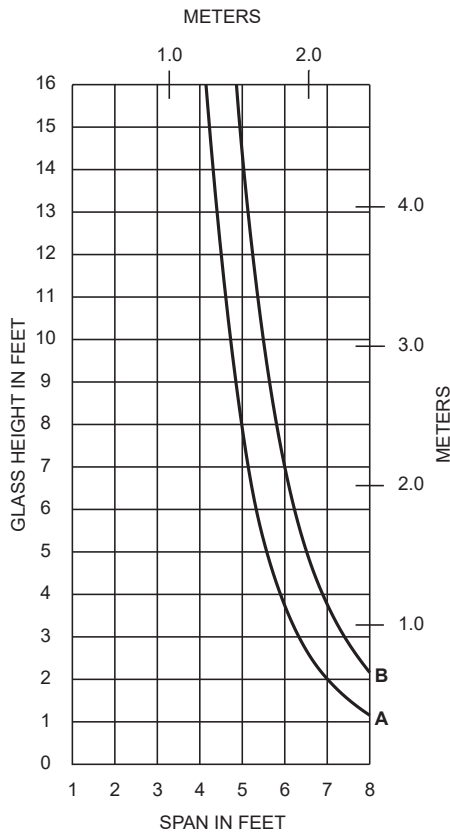
WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505



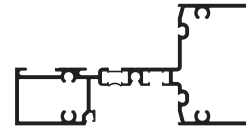
Horizontal or deadload limitations are based upon 1/8" (3.2), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1-5/16" (33.3) thick insulated impact resistant glass supported on two setting blocks placed at the loading points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

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

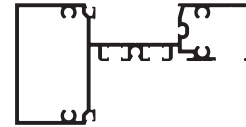
A = (1/4 POINT LOADING)
B = (1/8 POINT LOADING)



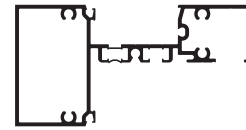
521CG011 (IR 521)



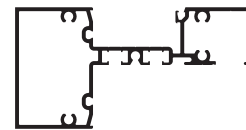
521TCG011 (IR 521T)



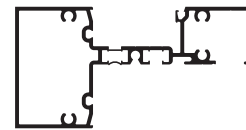
521CG311 (IR 521)



521TCG311 (IR 521T)



521CG111 (IR 521)



521TCG111 (IR 521T)

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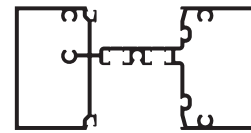
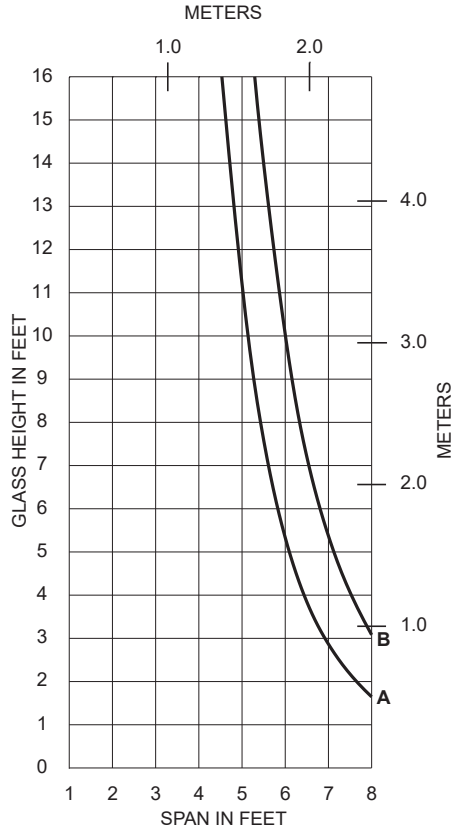
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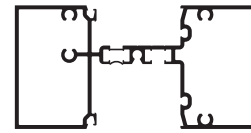
Horizontal or deadload limitations are based upon 1/8" (3.2), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1-5/16" (33.3) thick insulated impact resistant glass supported on two setting blocks placed at the loading points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

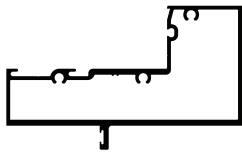
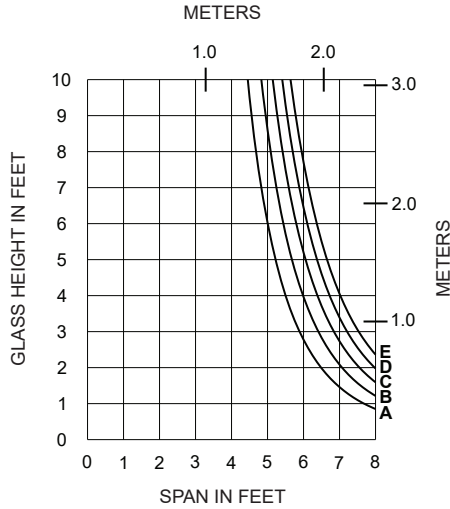
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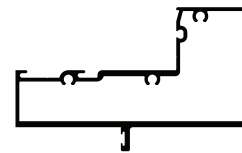
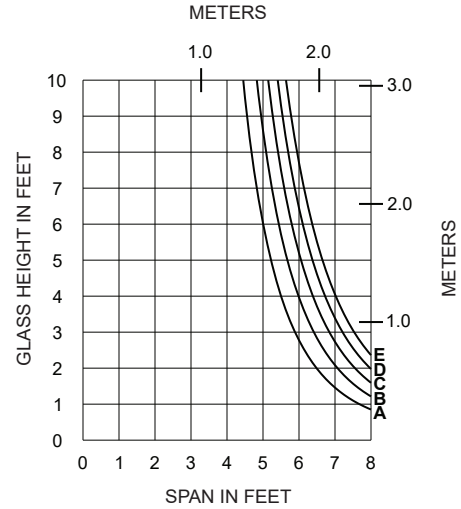


Horizontal or deadload limitations are based upon 1/16" (1.6), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1-5/16" (33.3) thick insulated impact resistant glass supported on two setting blocks placed at the loading points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

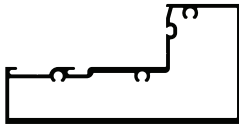
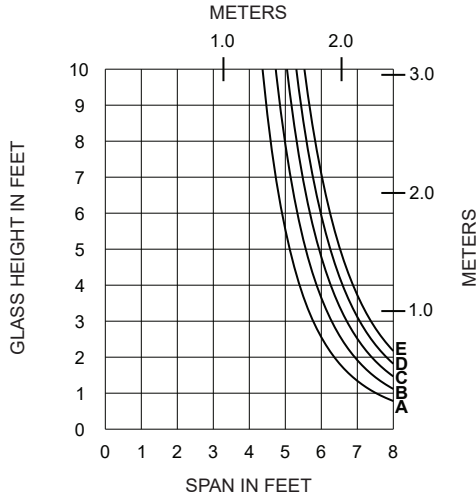
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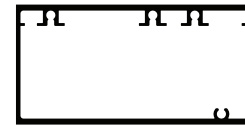
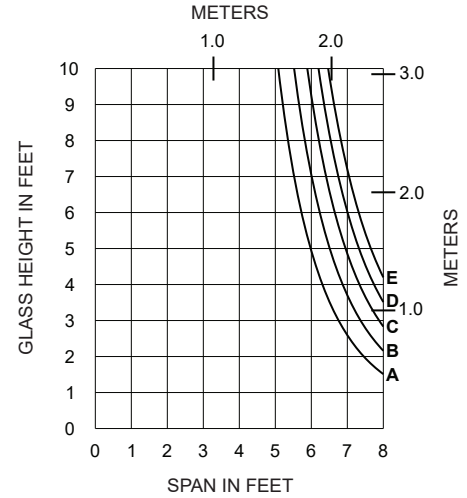


Horizontal or deadload limitations are based upon 1/16" (1.6), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1-5/16" (33.3) thick insulated impact resistant glass supported on two setting blocks placed at the loading points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

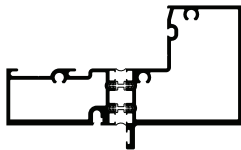
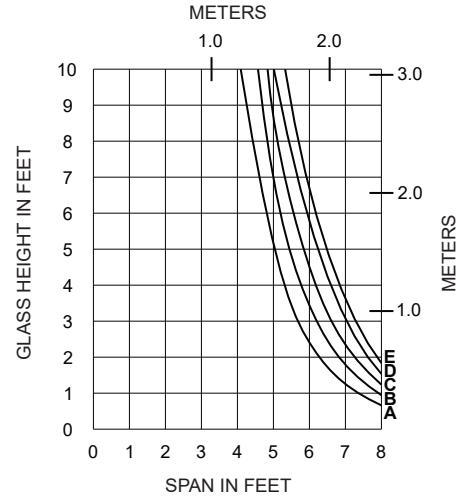
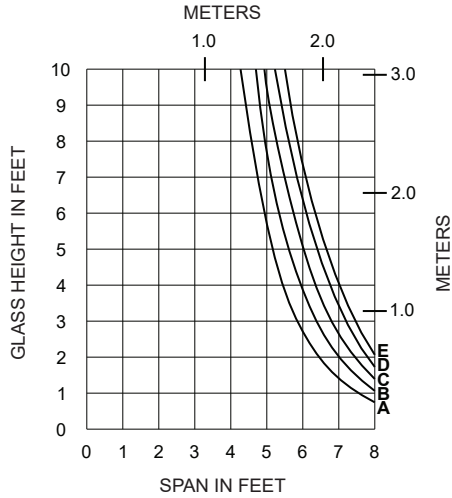
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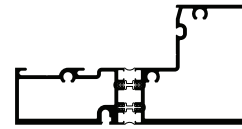


Horizontal or deadload limitations are based upon 1/16" (1.6), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1-5/16" (33.3) thick insulated impact resistant glass supported on two setting blocks placed at the loading points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



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"

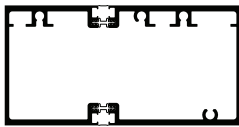
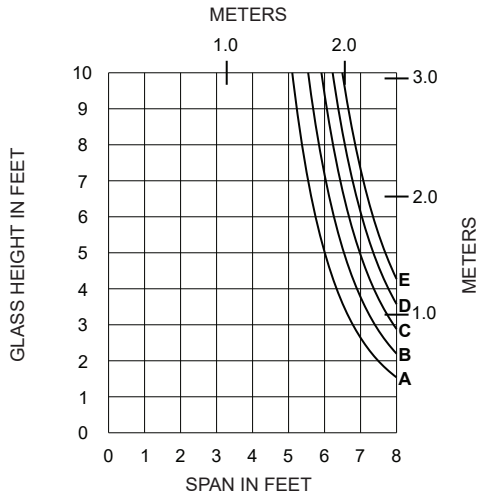
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- A = (1/4 POINT LOADING)
- B = (1/6 POINT LOADING)
- C = (1/8 POINT LOADING)
- D = (1/10 POINT LOADING)
- E = (1/12 POINT LOADING)



521TCG079 (IR 521T)

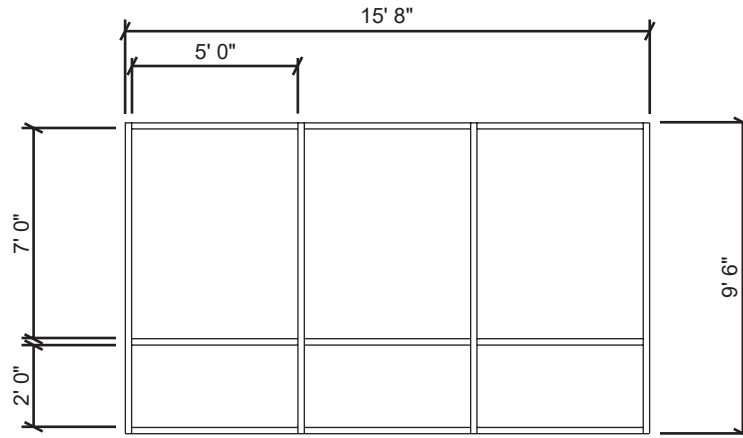
SETTING BLOCK LOCATIONS EXAMPLE (96" DLO)		
CURVE DESIGNATION	OFFSET	DISTANCE FROM JAMBS
A	1/4 POINT	24"
B	1/6 POINT	16"
C	1/8 POINT	12"
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E	1/12 POINT	8"

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Generic Project Specific U-factor Example Calculation (Percent of Glass will vary on specific products depending on sitelines)



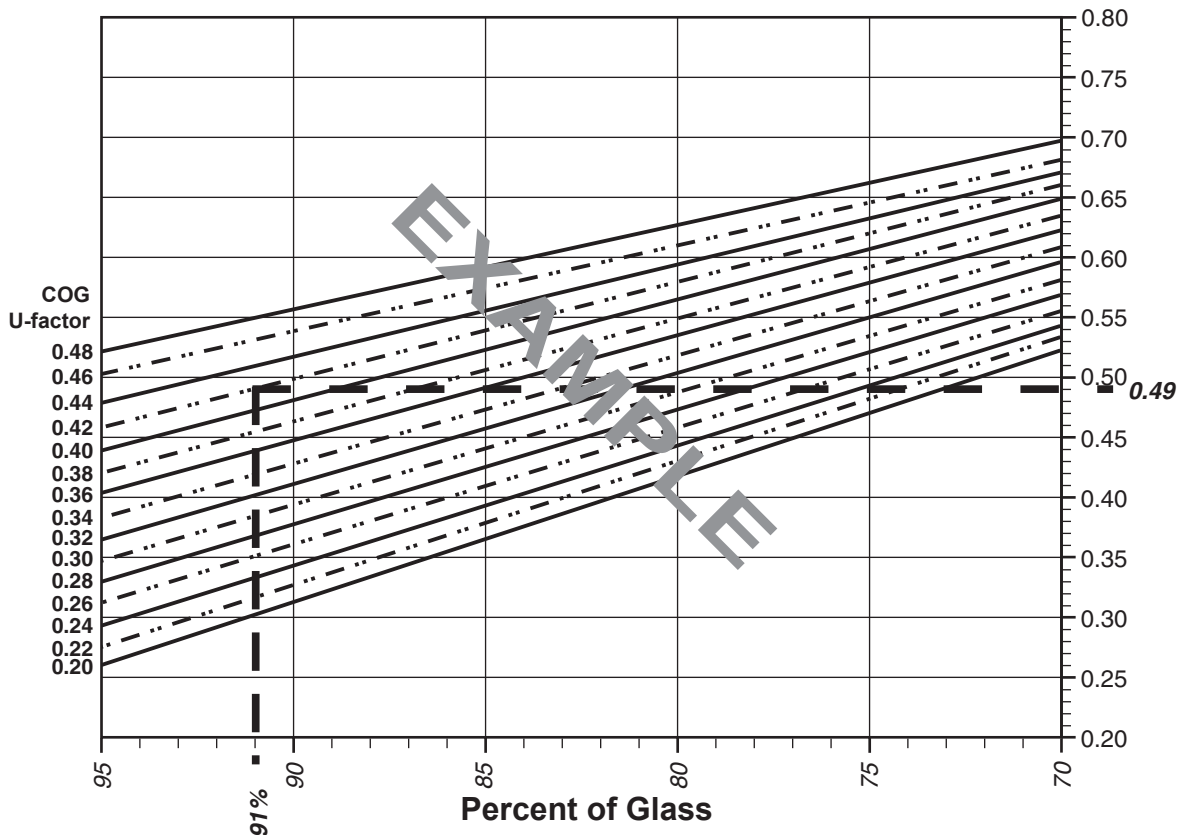
Example Glass U-factor = 0.42 Btu/hr·ft²·°F

Total Daylight Opening = 3(5' x 7') + 3(5' x 2') = 135ft²

Total Projected Area = (Total Daylight Opening + Total Area of Framing System)
= 15' 8" x 9' 6" = 148.83ft²

Percent of Glass = (Total Daylight Opening ÷ Total Projected Area)
= (135 ÷ 148.83)100 = 91%

System U-factor vs Percent of Glass Area



Based on 91% glass and center of glass (COG) U-factor of 0.42
System U-factor is equal to 0.49 Btu/hr x ft² x °F

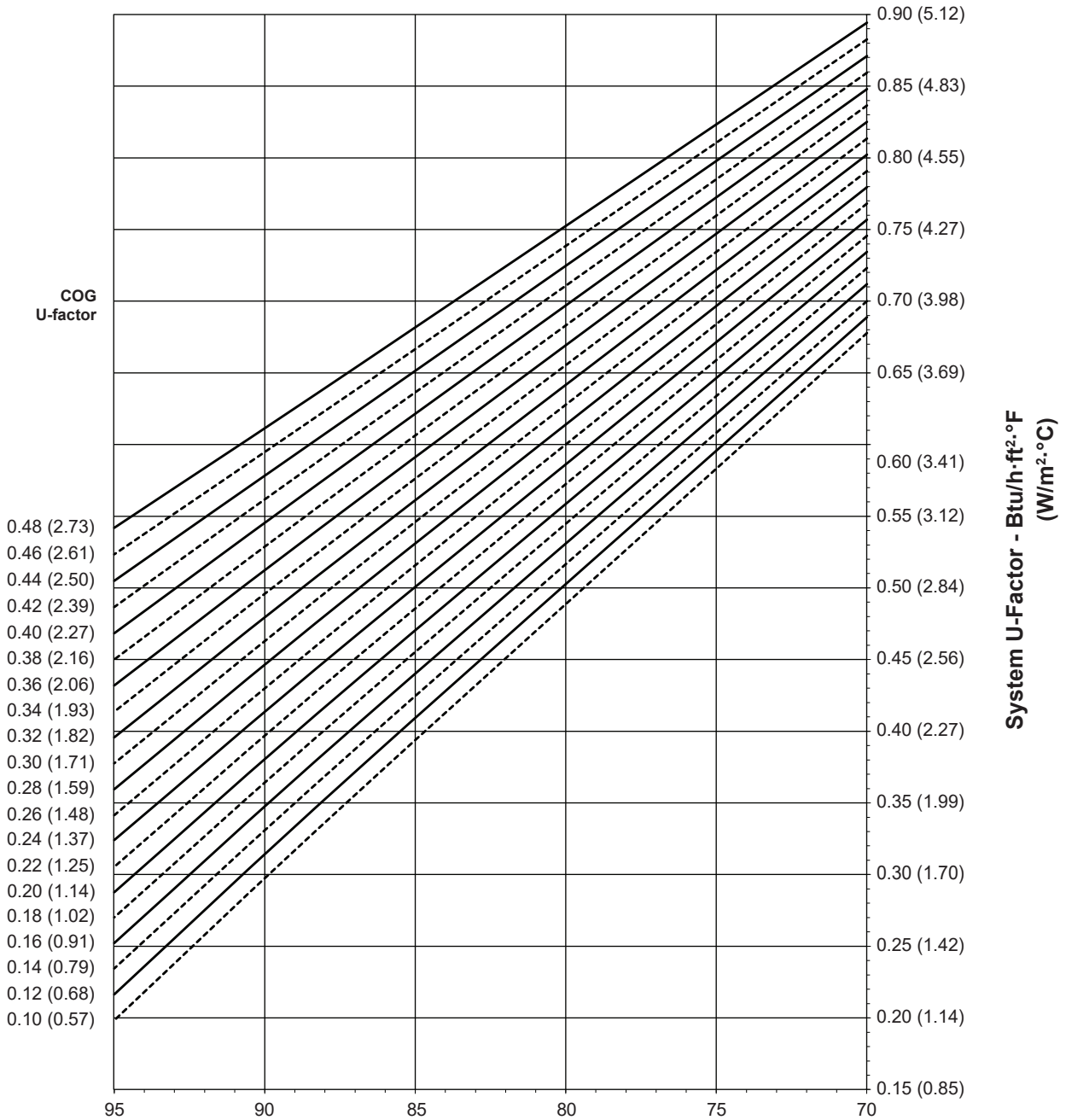
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Note:

Values in parentheses are metric.
 COG=Center of Glass.
 Charts are generated per AAMA 507.

IR 521 Framing System System U-Factor for Vision Glass



**Percent of Glass = Vision Area/Total Area
 (Total Daylight Opening / Projected Area)**

Notes for System U-factor, SHGC and VT charts:

For glass values that are not listed, linear interpolation is permitted.
 Glass properties are based on center of glass values and are obtained from your glass supplier.

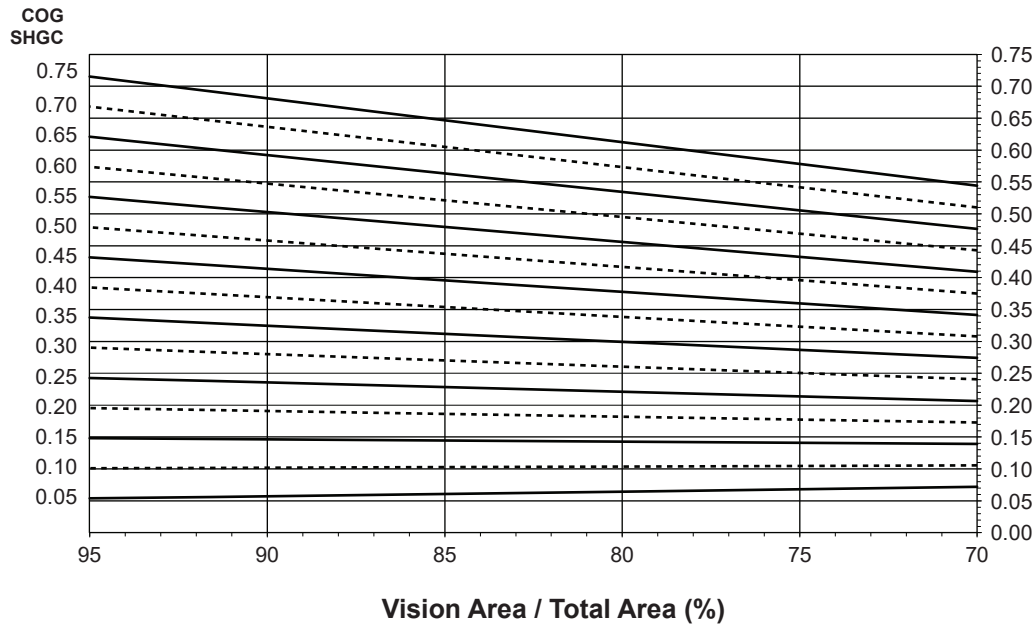
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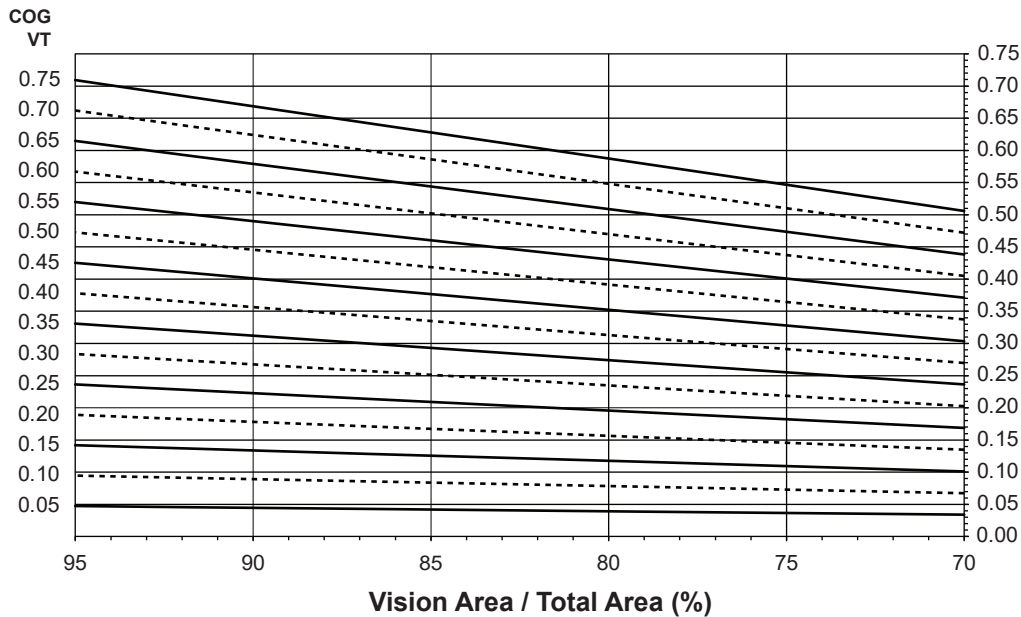
IR 521 Framing System

System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

System SHGC

System VT

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Thermal Transmittance ¹ (BTU/hr • ft ² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.66
0.46	0.64
0.44	0.62
0.42	0.61
0.40	0.59
0.38	0.58
0.36	0.56
0.34	0.55
0.32	0.53
0.30	0.52
0.28	0.50
0.26	0.48
0.24	0.47
0.22	0.45
0.20	0.44
0.18	0.42
0.16	0.41
0.14	0.39
0.12	0.37
0.10	0.36

IR 521 Framing System

NOTE: For glass values that are not listed, linear interpolation is permitted.

1. U-Factors are determined in accordance with NFRC 100.
2. SHGC and VT values are determined in accordance with NFRC 200.
3. Glass properties are based on center of glass values and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matricies are based on the standard NFRC specimen size of 2,000 mm wide by 2,000 mm high (78-3/4" by 78-3/4").

SHGC Matrix ²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.66
0.70	0.62
0.65	0.57
0.60	0.53
0.55	0.49
0.50	0.44
0.45	0.40
0.40	0.36
0.35	0.32
0.30	0.27
0.25	0.23
0.20	0.19
0.15	0.15
0.10	0.10
0.05	0.06

Visible Transmittance ²

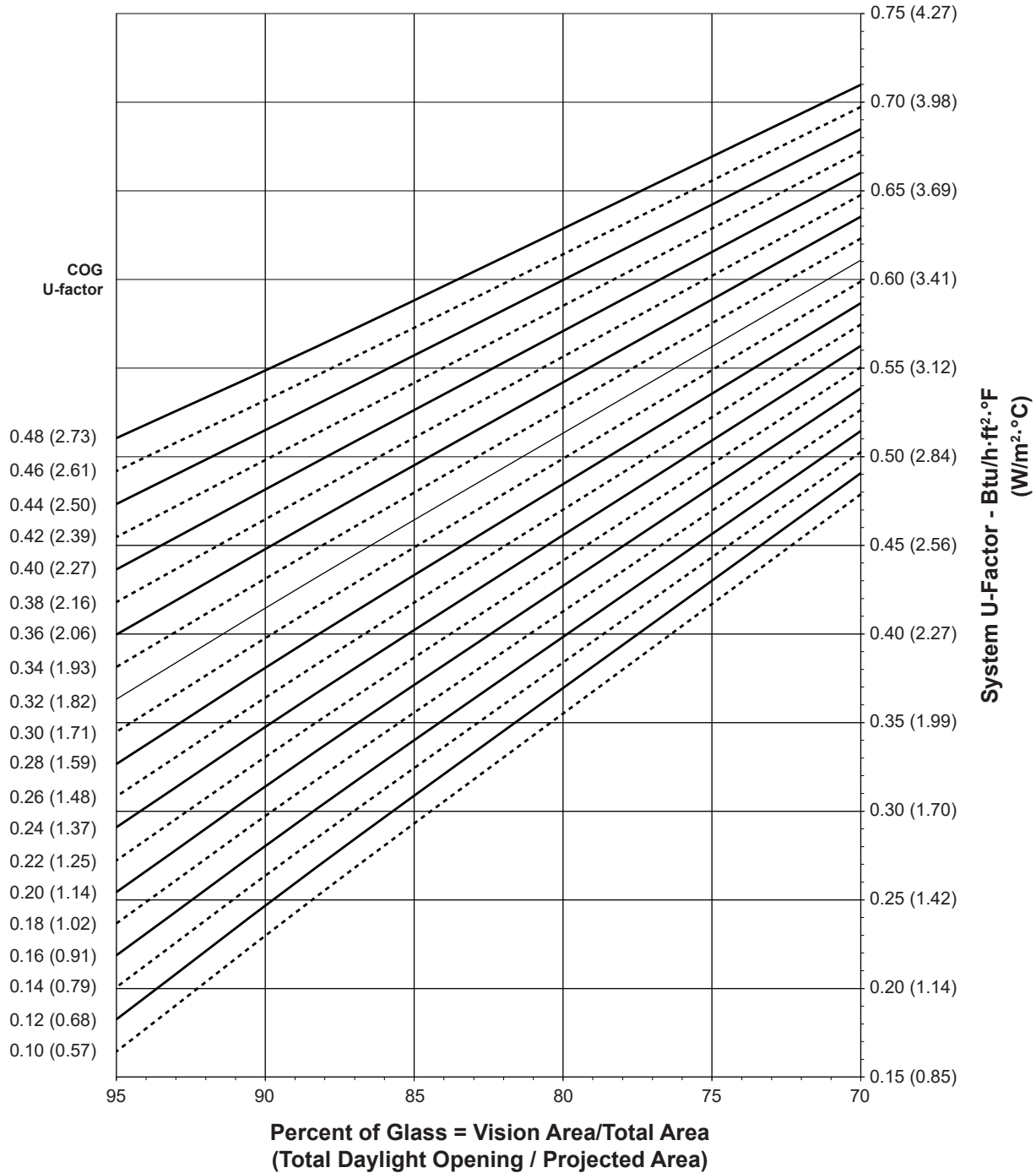
Glass VT ³	Overall VT ⁴
0.75	0.64
0.70	0.60
0.65	0.56
0.60	0.51
0.55	0.47
0.50	0.43
0.45	0.39
0.40	0.34
0.35	0.30
0.30	0.26
0.25	0.21
0.20	0.17
0.15	0.13
0.10	0.09
0.05	0.04

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Note:
 Values in parentheses are metric.
 COG=Center of Glass.
 Charts are generated per AAMA 507.

IR 521T Framing System System U-Factor for Vision Glass



Notes for System U-factor, SHGC and VT charts:

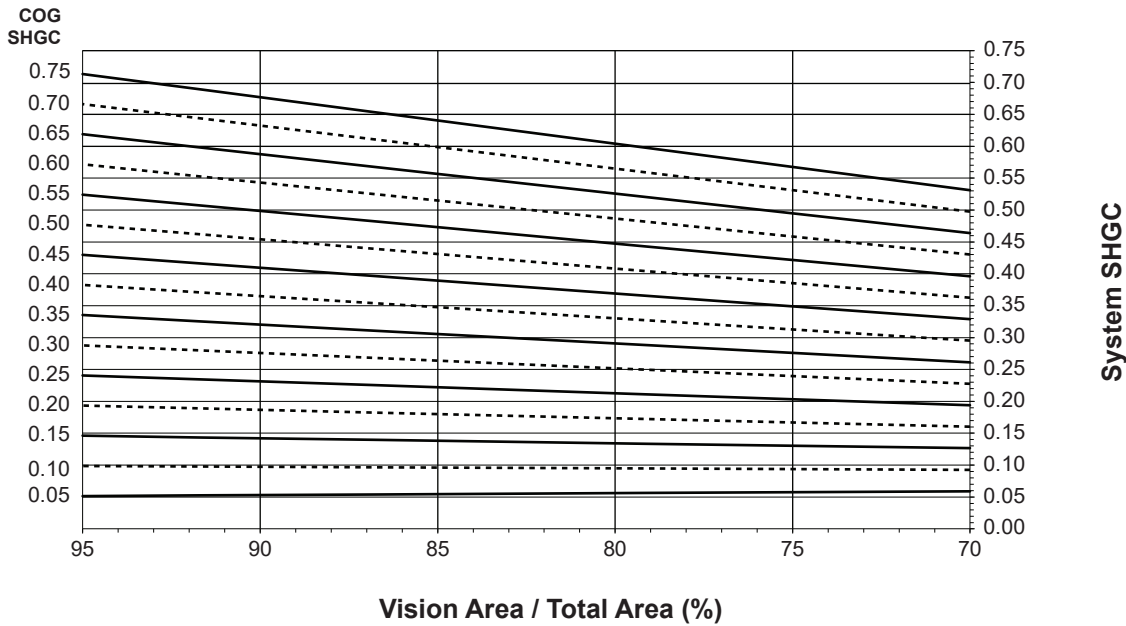
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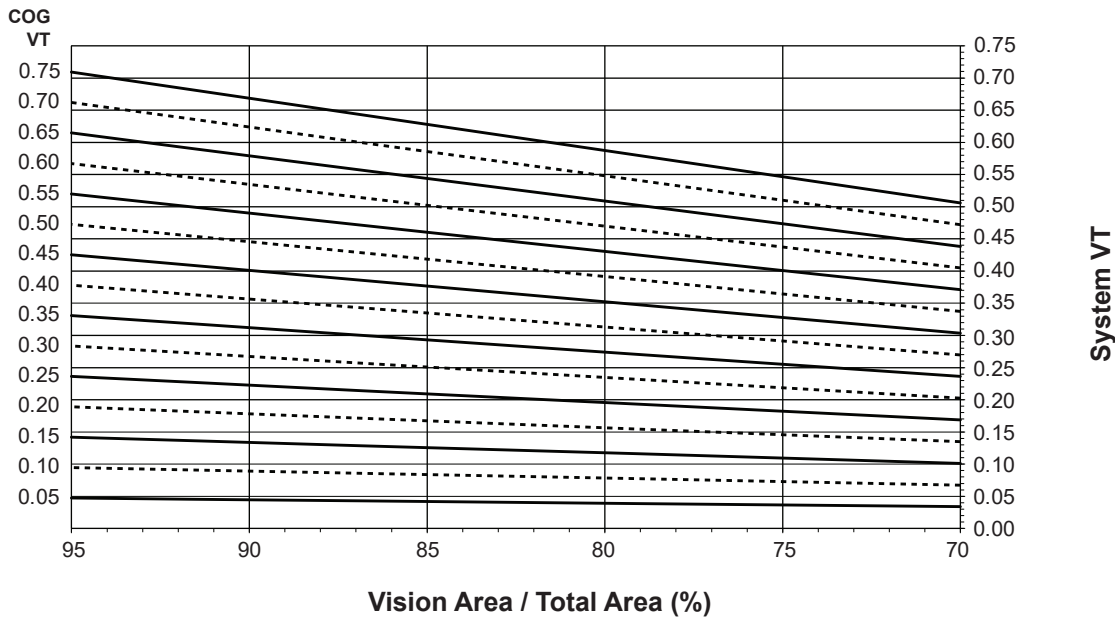
IR 521T Framing System

System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

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Thermal Transmittance¹ (BTU/hr • ft² • °F)

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0.14	0.30
0.12	0.29
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IR 521T Framing System

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4. Overall U-Factor, SHGC, and VT Matrices are based on the standard NFRC specimen size of 2,000 mm wide by 2,000 mm high (78-3/4" by 78-3/4").

SHGC Matrix²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.65
0.70	0.61
0.65	0.57
0.60	0.52
0.55	0.48
0.50	0.44
0.45	0.40
0.40	0.35
0.35	0.31
0.30	0.27
0.25	0.23
0.20	0.18
0.15	0.14
0.10	0.10
0.05	0.05

Visible Transmittance²

Glass VT ³	Overall VT ⁴
0.75	0.64
0.70	0.60
0.65	0.56
0.60	0.51
0.55	0.47
0.50	0.43
0.45	0.39
0.40	0.34
0.35	0.30
0.30	0.26
0.25	0.21
0.20	0.17
0.15	0.13
0.10	0.09
0.05	0.04

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