



Features

- IR 521UT is 5" (127) deep and has a 2-3/4" (69.9) sightline
{Expansion mullions have a 2-3/4" (69.9) sightline}
- Screw Spline fabrication
- IR 521UT Dual 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™ Entrances - single or pairs
- 350T/500T Insulpour® thermal entrances - single or pairs
- Flushline® Entrances - single or pairs
- Strap anchor at head and jamb

Product Applications

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

For specific product applications,
consult your Kawneer representative.

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FRAMING DETAILS - OUTSIDE GLAZED (WET)	4-8
FRAMING DETAILS - OUTSIDE GLAZED (DRY).....	9-13
FRAMING DETAILS - INSIDE GLAZED (WET)	14-18
FRAMING DETAILS - INSIDE GLAZED (DRY)	19-23
ENTRANCE FRAMING DETAILS.....	24
WIND LOAD CHARTS	26-34
DEADLOAD CHARTS	35-38

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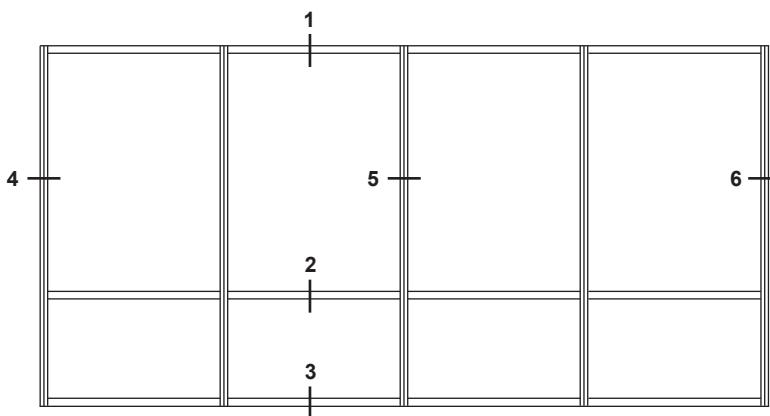
Metric (SI) conversion figures are included throughout these details for reference. Numbers in parentheses () are millimeters unless otherwise noted.

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

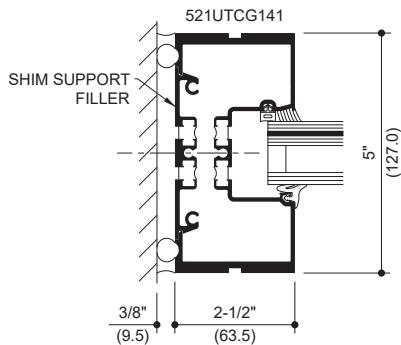
m – meter
cm – centimeter
mm – millimeter
s – second
Pa – pascal
MPa – megapascal



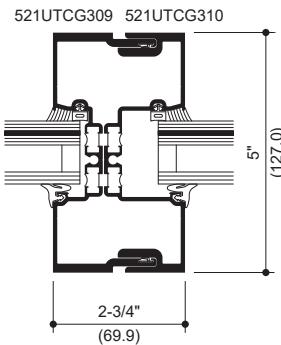
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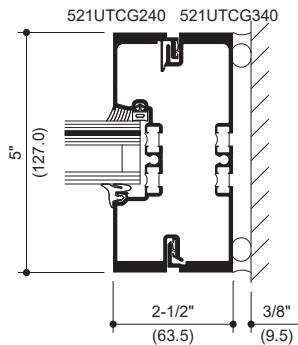
ELEVATION IS NUMBER KEYED TO DETAILS



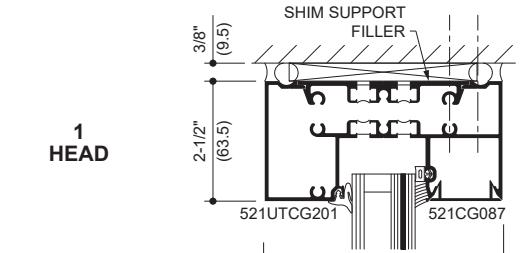
4 FIRST BAY JAMB



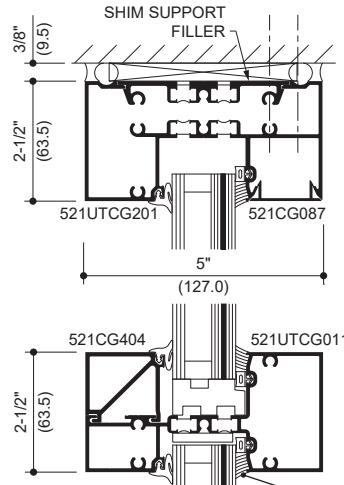
5 VERTICAL MULLION



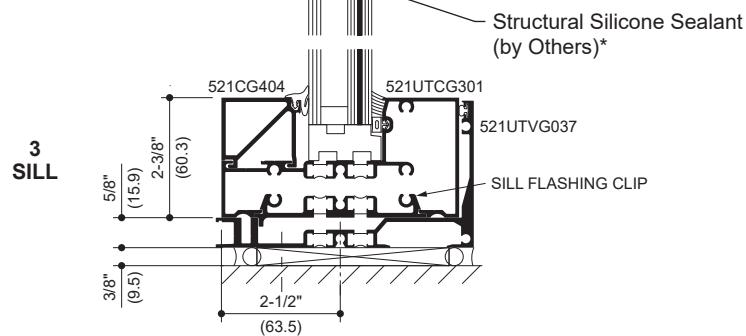
6 LAST BAY JAMB



1 HEAD
2 HORIZONTAL



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



Structural Silicone Sealant
(by Others)*

SILL FLASHING CLIP
521UTVG037

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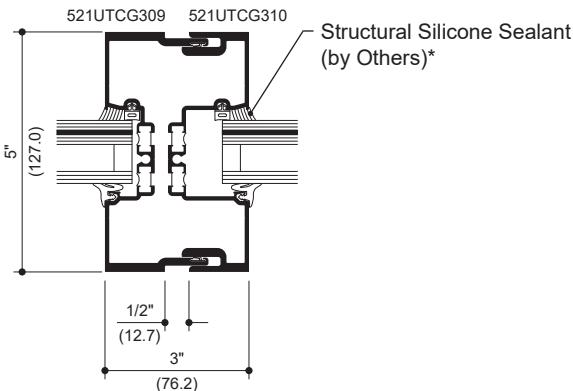
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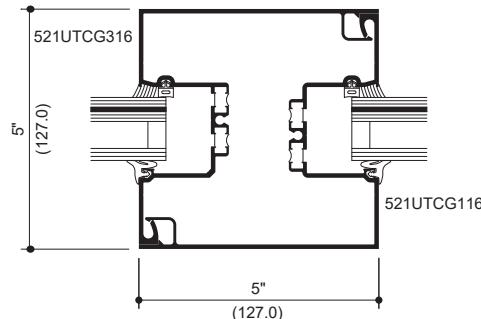


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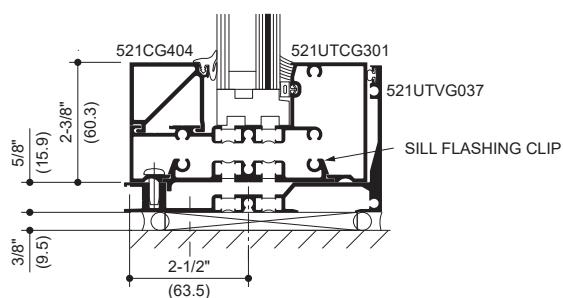
1-5/16" INFILL (PRE GLAZED - WET GLAZED)



EXPANSION MULLION



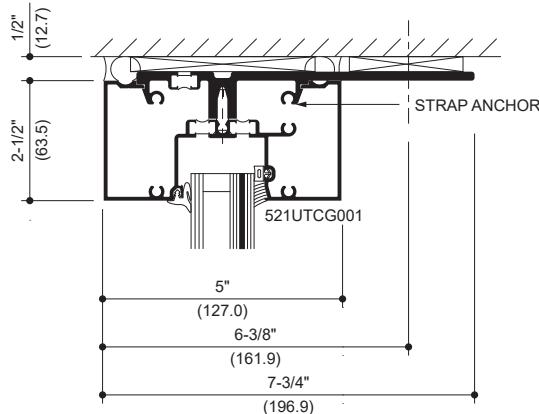
5" x 5" MULLION



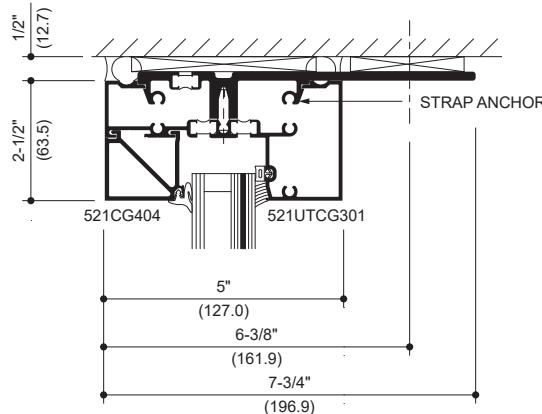
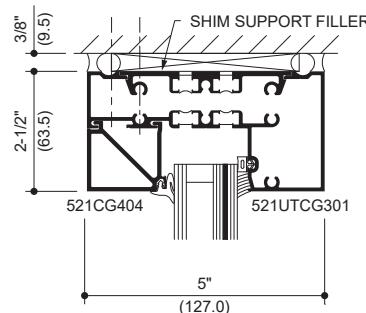
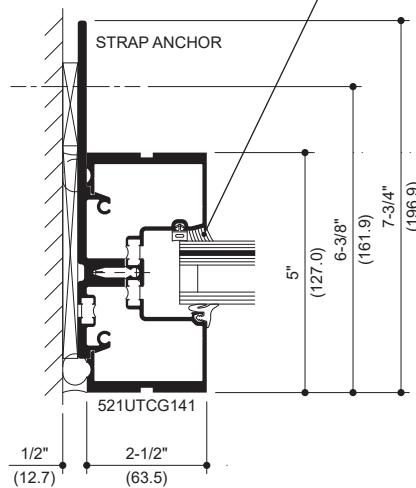
PINNED HORIZONTAL TO
SILL FLASHING

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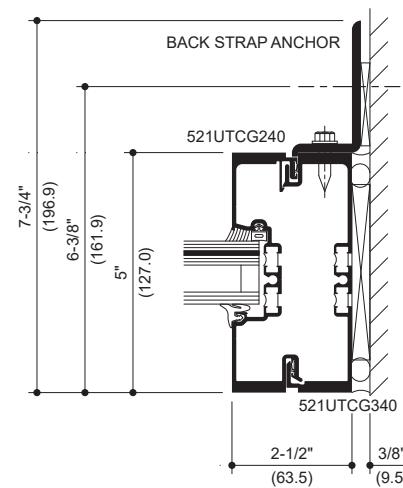
1-5/16" INFILL (PRE GLAZED - WET GLAZED)



HEAD

OPTIONAL HEAD
WITH STOPStructural Silicone Sealant
(by Others)*OPTIONAL HEAD
WITH STOP

FIRST BAY JAMB



LAST BAY JAMB

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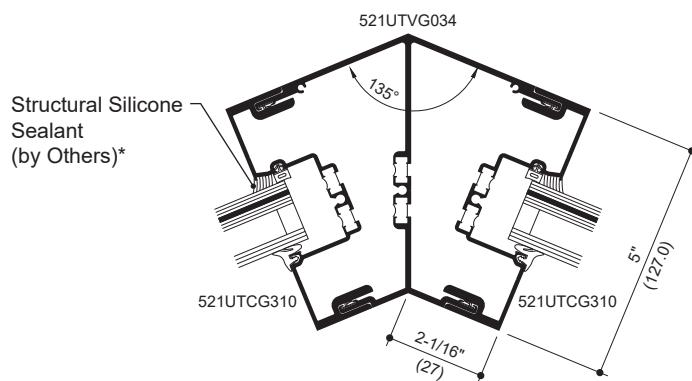
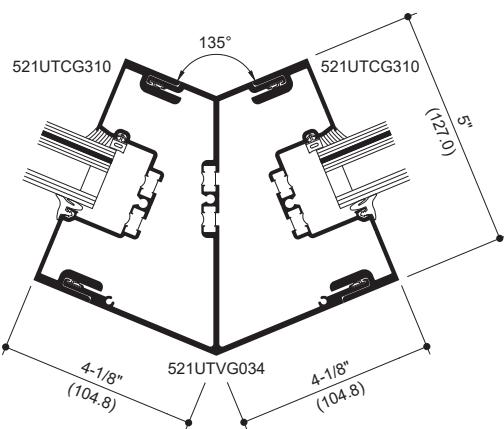
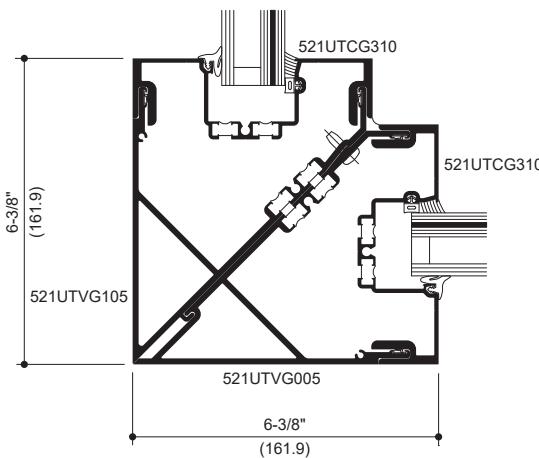
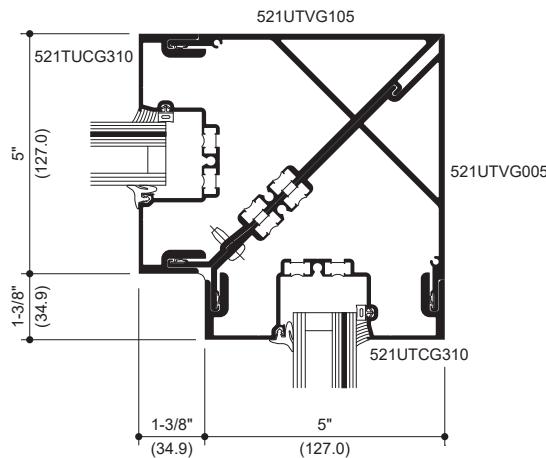
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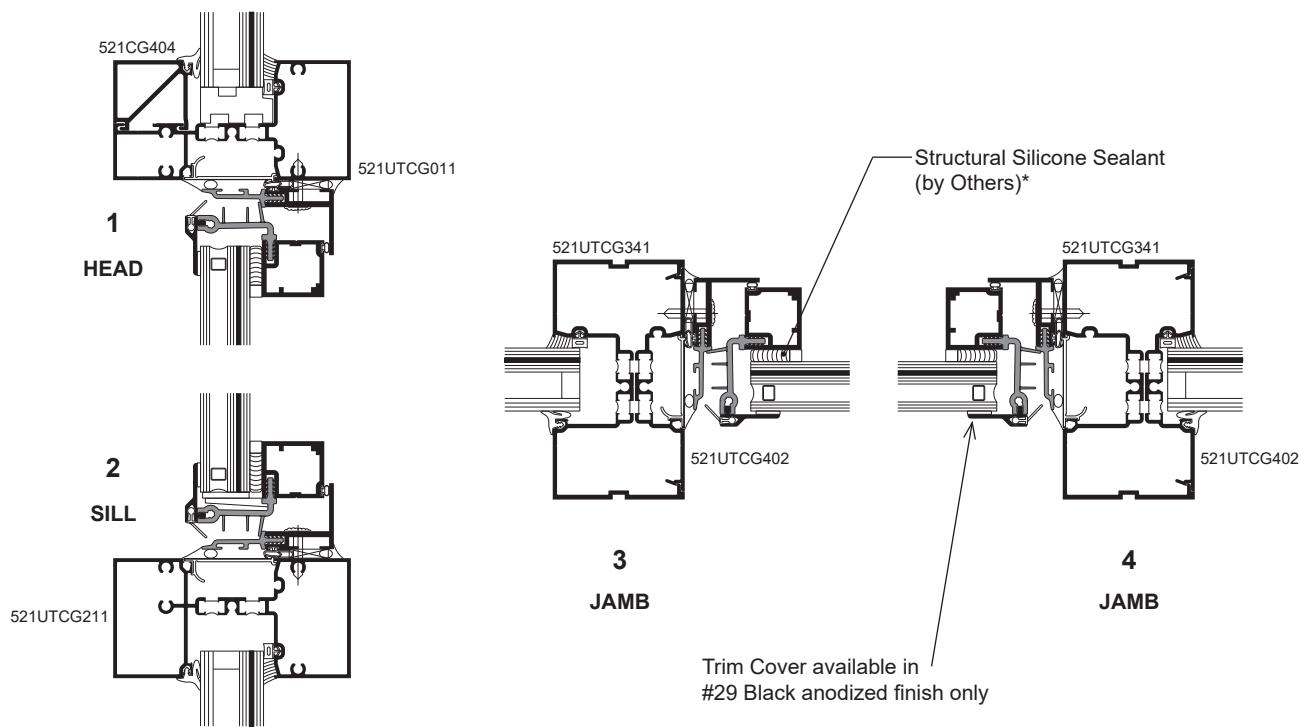
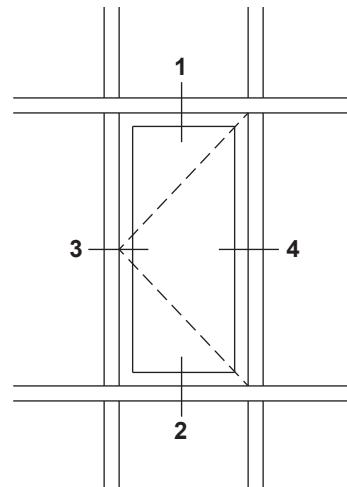
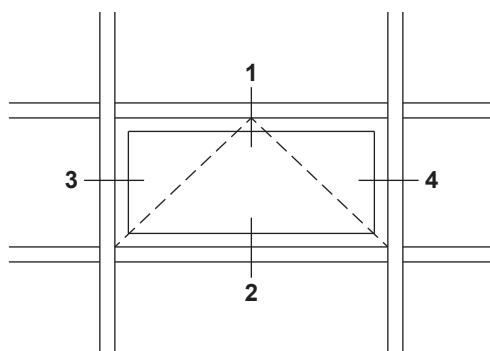
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1-5/16" INFILL (PRE GLAZED - WET GLAZED)



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



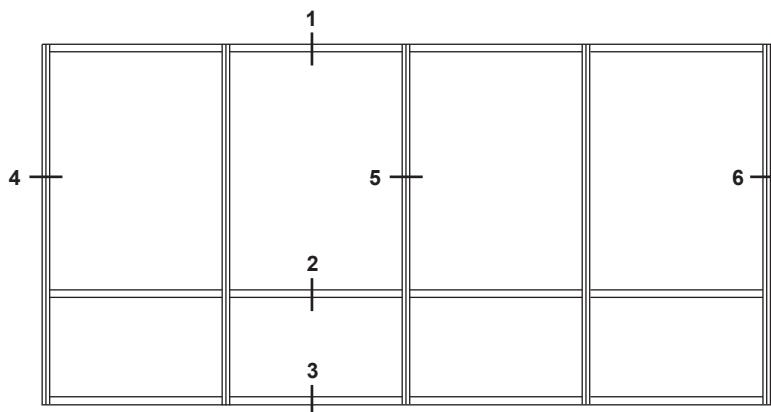
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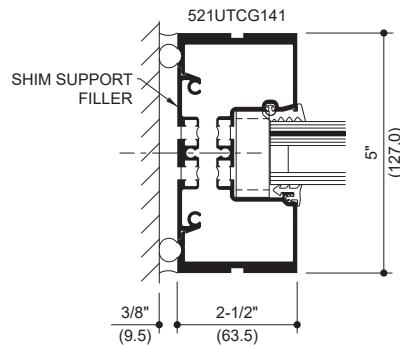
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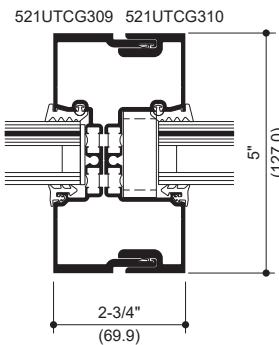
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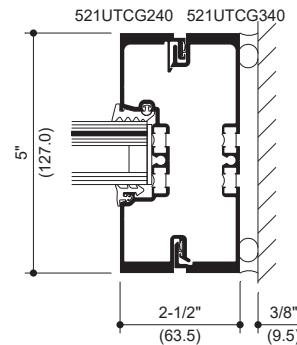
IR 521UT Double IsoLock®
THERMAL BREAK



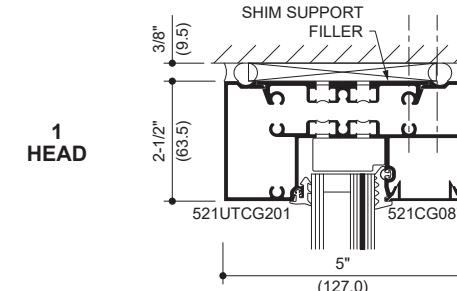
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FIRST BAY JAMB



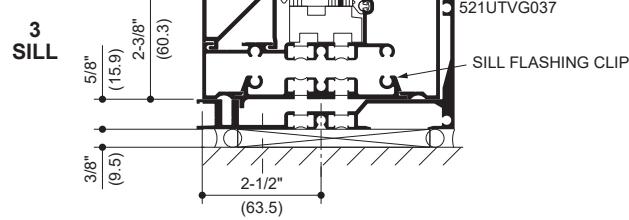
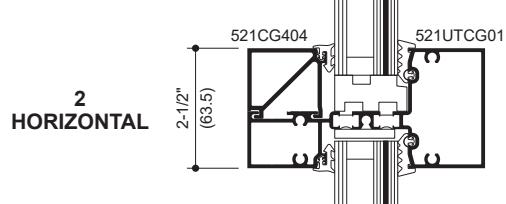
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VERTICAL MULLION



6
LAST BAY JAMB



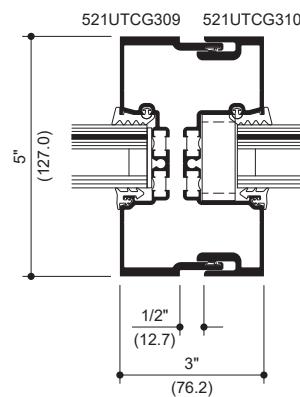
1-5/16" INFILL
(PRE GLAZED - DRY GLAZED)



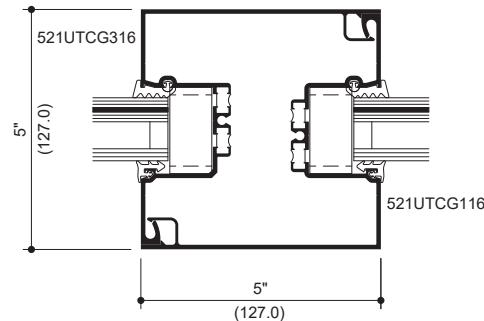


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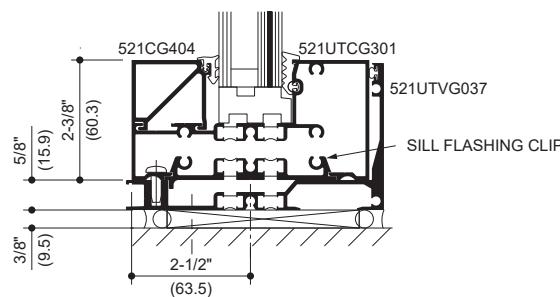
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



EXPANSION MULLION



5" x 5" MULLION



PINNED HORIZONTAL TO SILL FLASHING

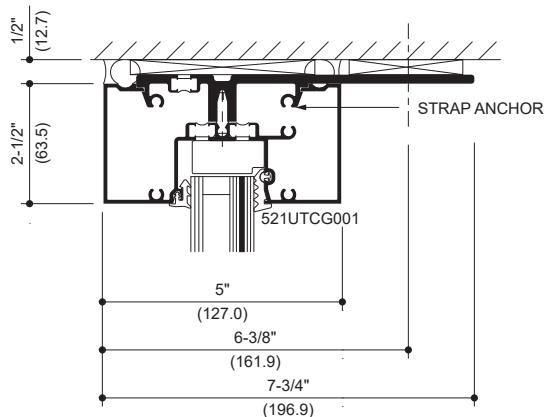
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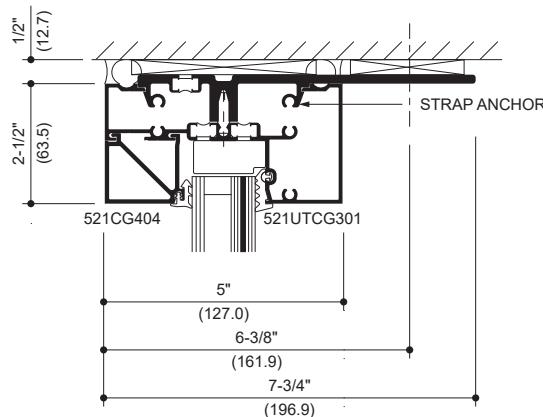
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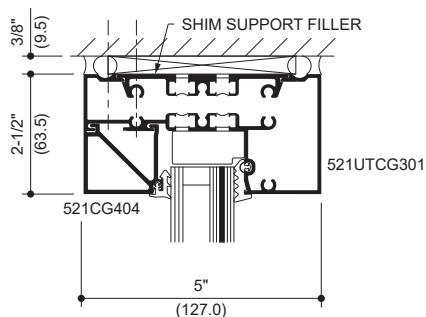
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



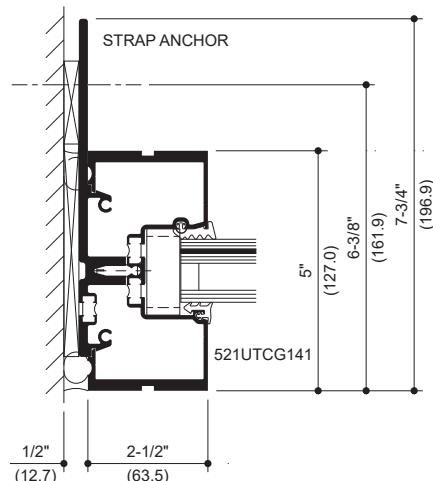
HEAD



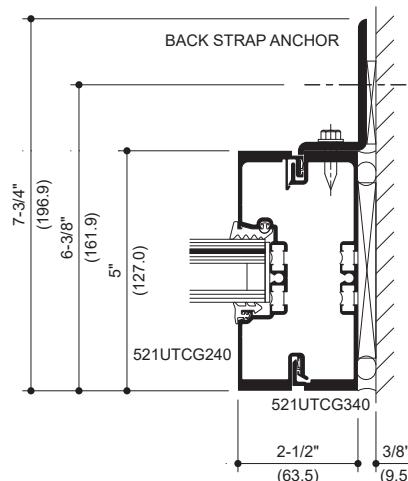
OPTIONAL HEAD WITH STOP



OPTIONAL HEAD WITH STOP

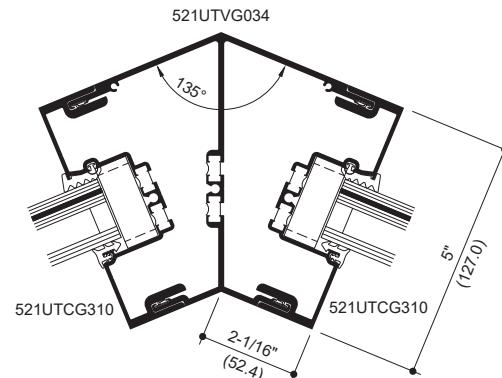
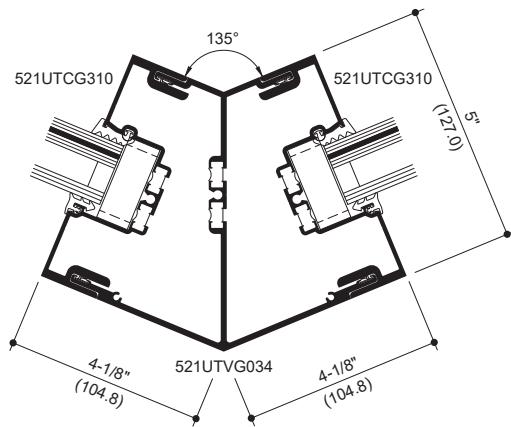
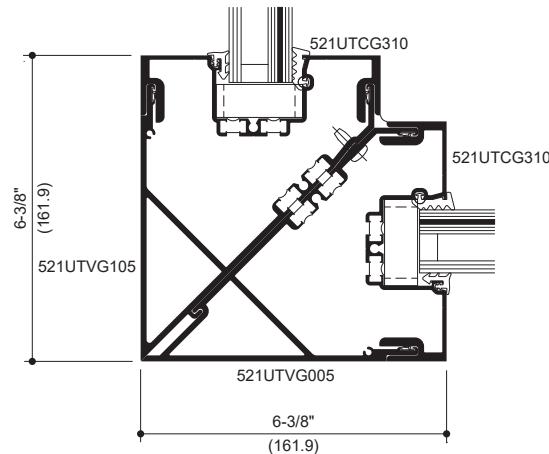
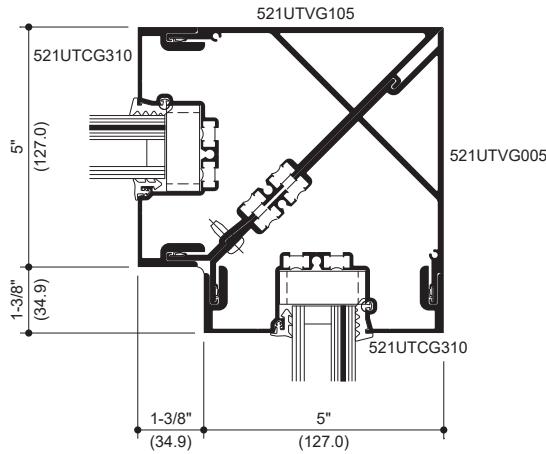


FIRST BAY JAMB



LAST BAY JAMB

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

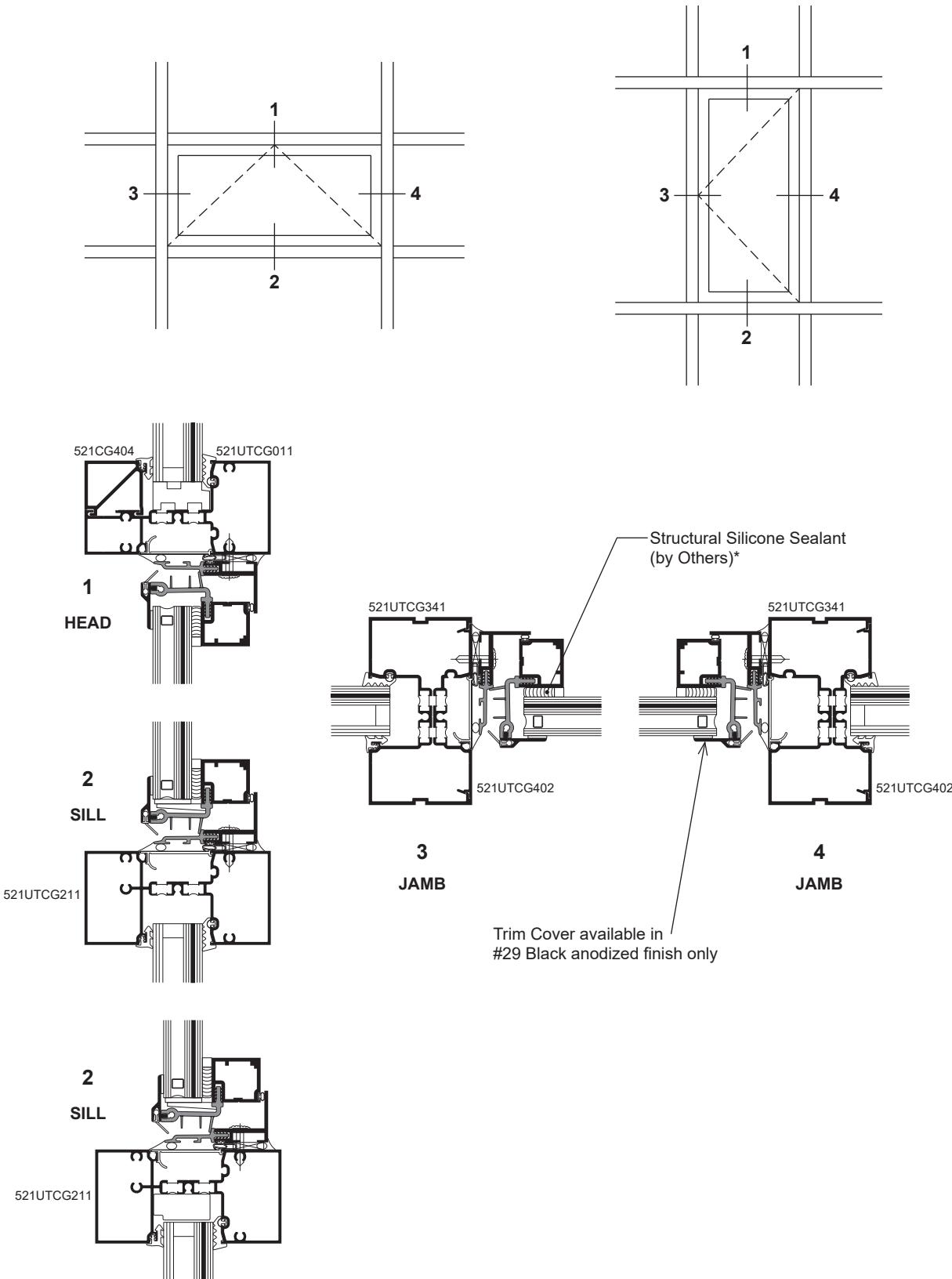


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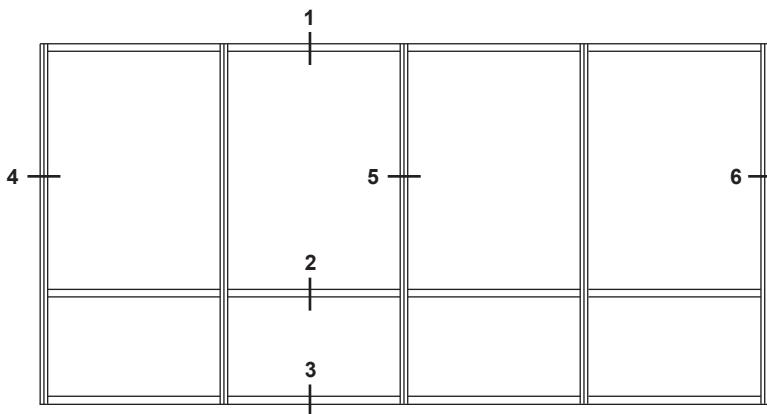
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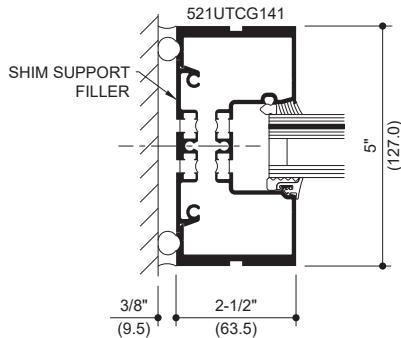
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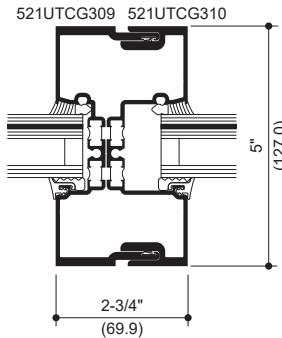
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ELEVATION IS NUMBER KEYED TO DETAILS



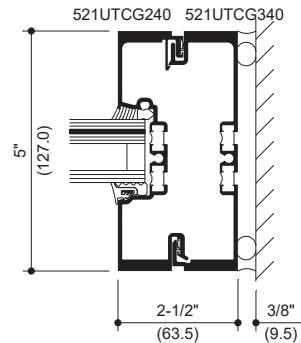
4 FIRST BAY JAMB



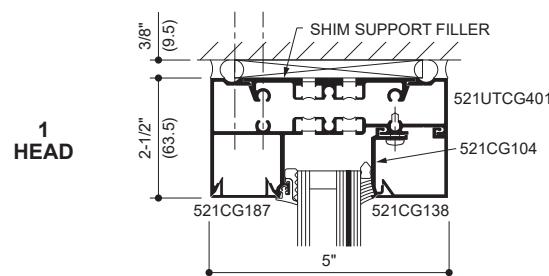
5 VERTICAL MULLION



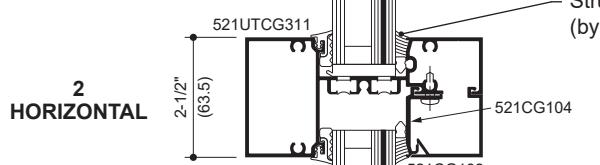
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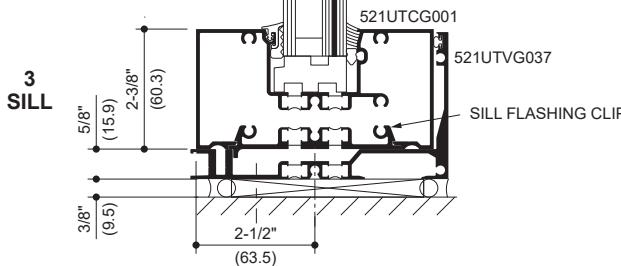
6 LAST BAY JAMB



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



Structural Silicone Sealant
(by Others)*

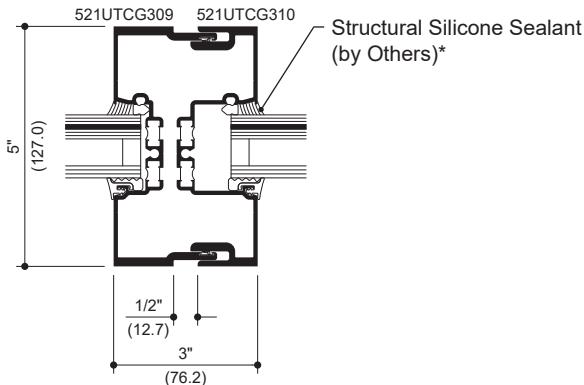


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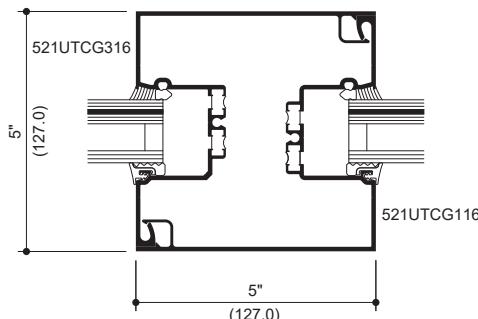


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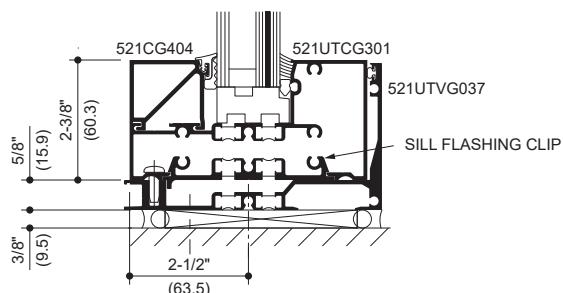
1-5/16" INFILL (PRE GLAZED - WET GLAZED)



EXPANSION MULLION



5" x 5" MULLION



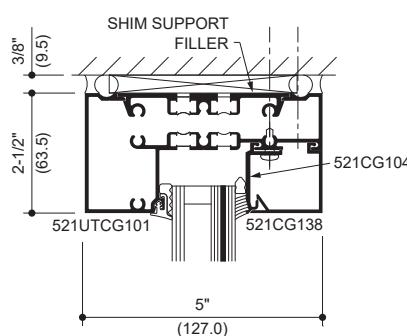
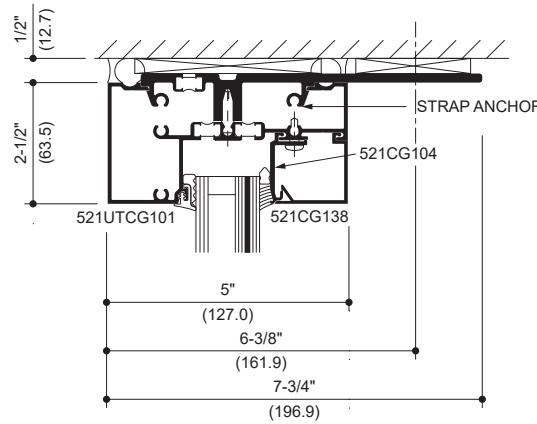
PINNED HORIZONTAL TO
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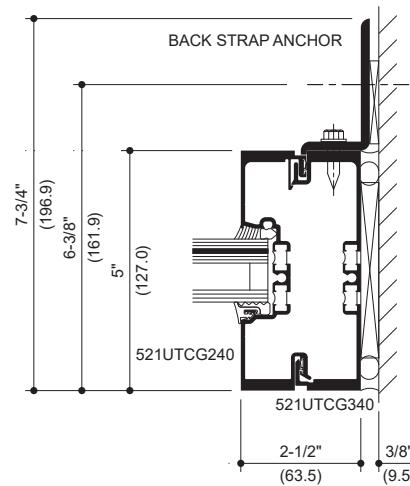
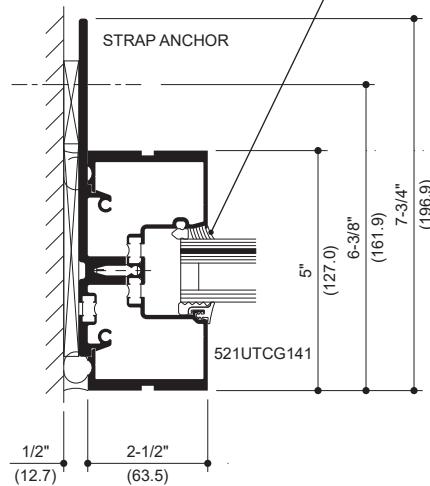
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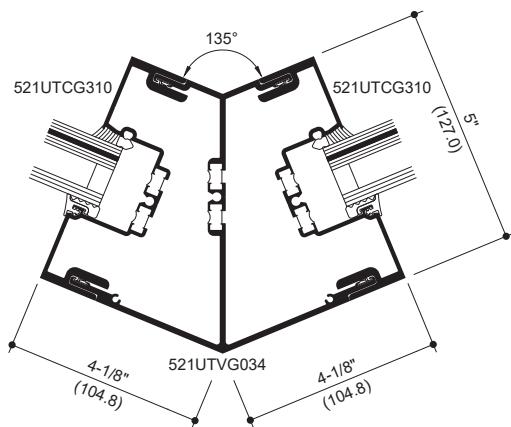
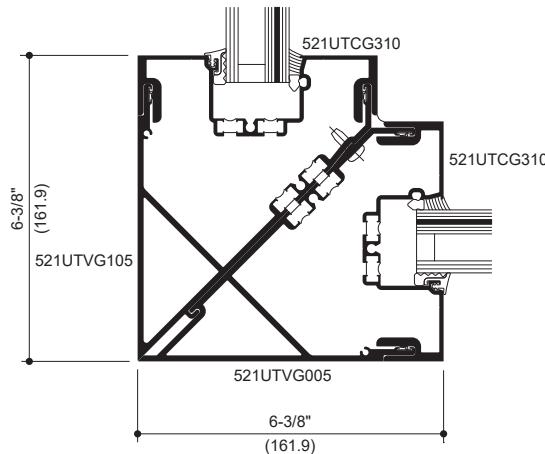
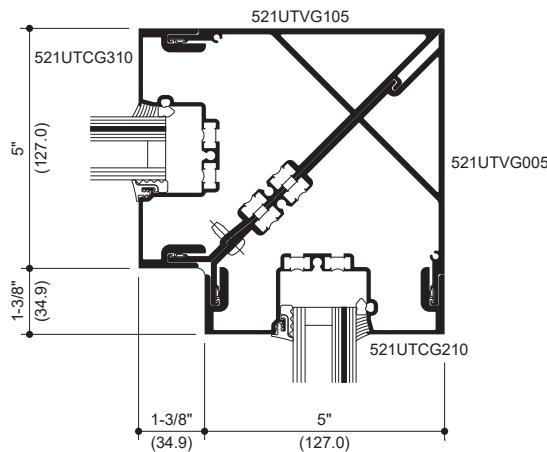
OPTIONAL HEAD WITH STOP



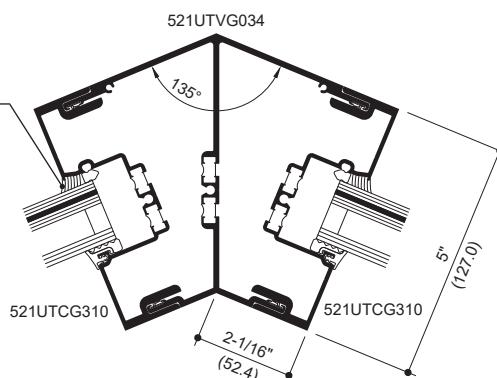
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1-5/16" INFILL (PRE GLAZED - WET GLAZED)

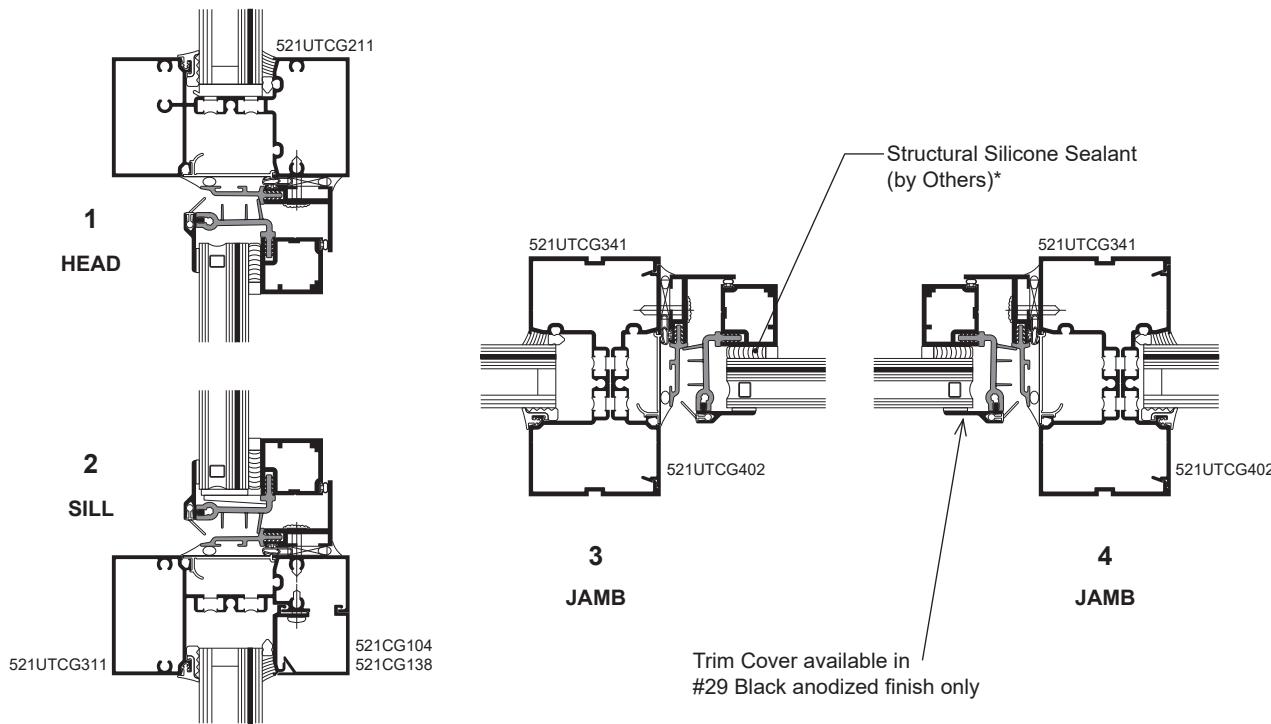
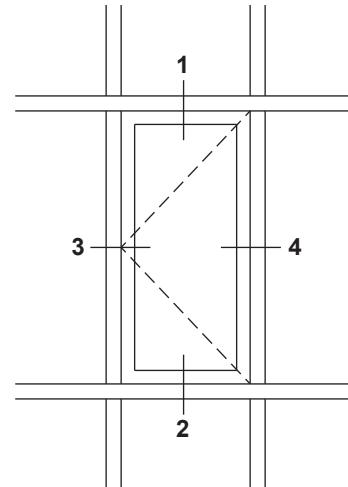
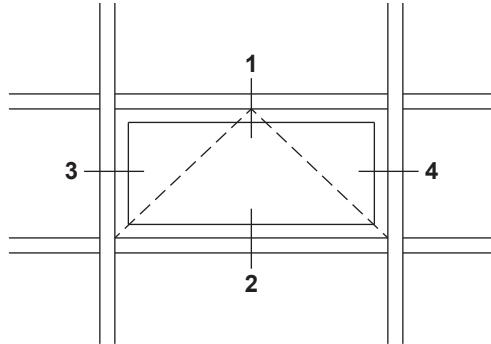


Structural Silicone Sealant
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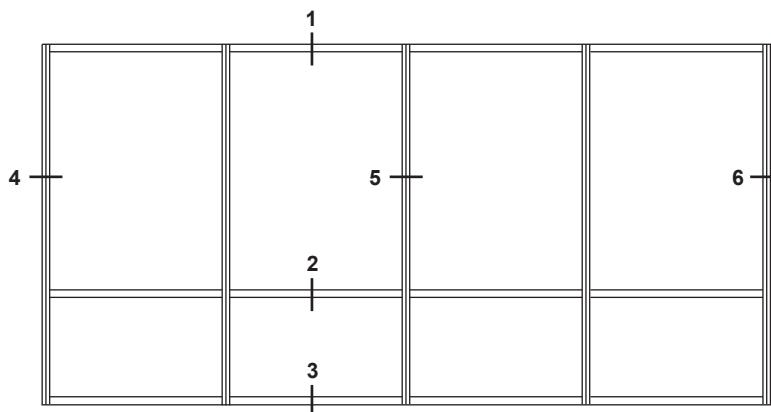
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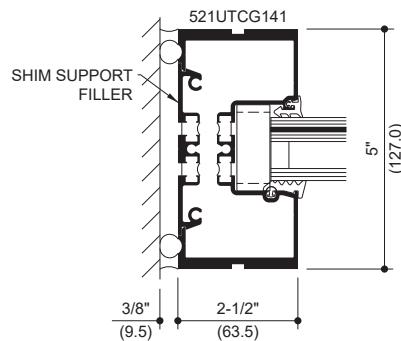
Additional information and CAD details are available at www.kawneer.com



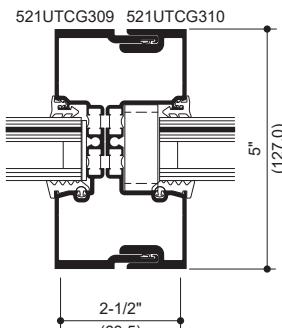
ELEVATION IS NUMBER KEYED TO DETAILS



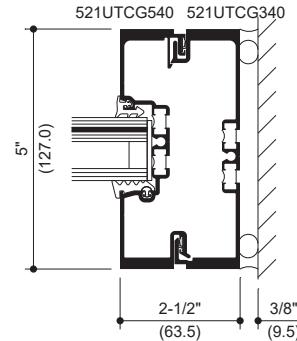
IR 521UT Double IsoLock®
THERMAL BREAK



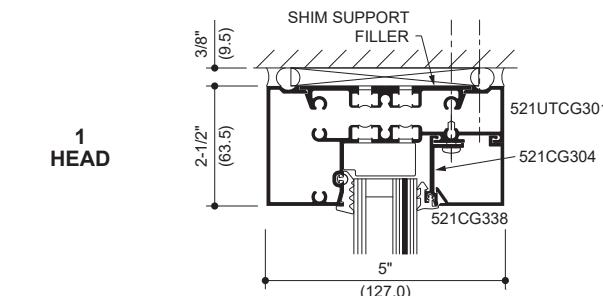
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FIRST BAY JAMB



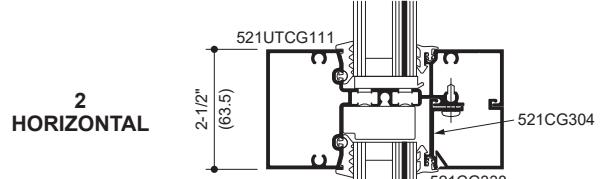
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VERTICAL MULLION



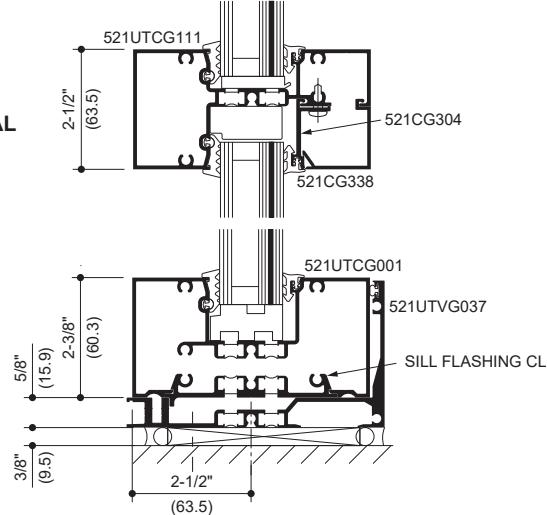
6
LAST BAY JAMB



1
HEAD



2
HORIZONTAL



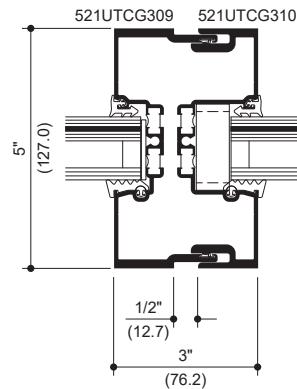
3
SILL

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

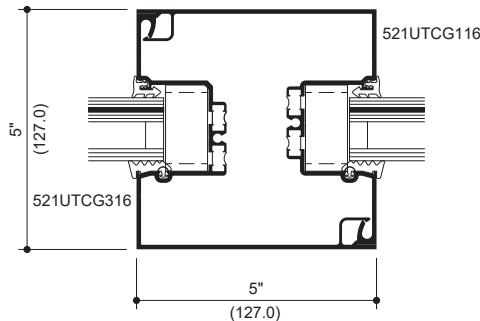


Additional information and CAD details are available at www.kawneer.com

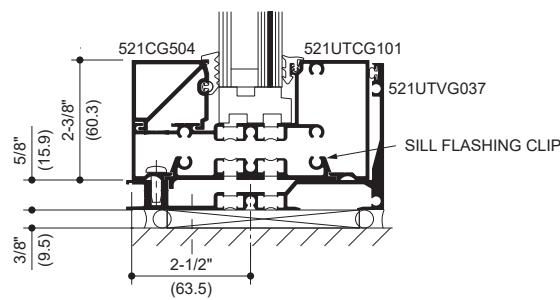
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



EXPANSION MULLION



5" x 5" MULLION



PINNED HORIZONTAL TO SILL FLASHING

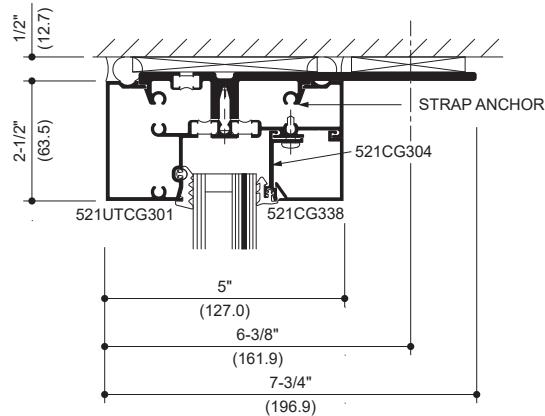
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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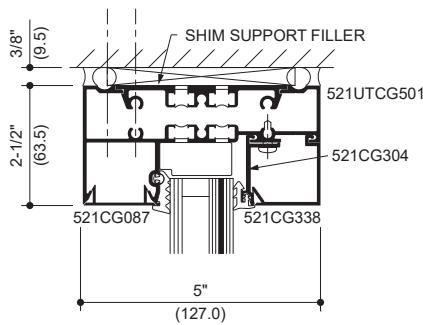
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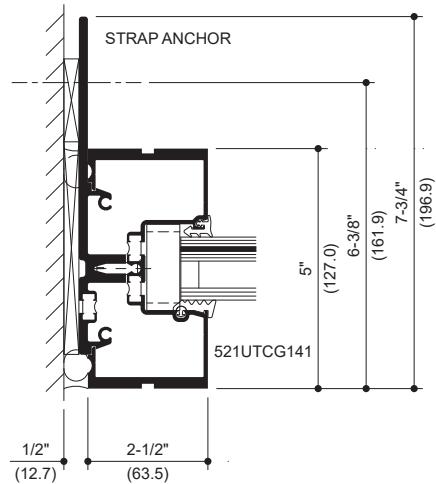
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



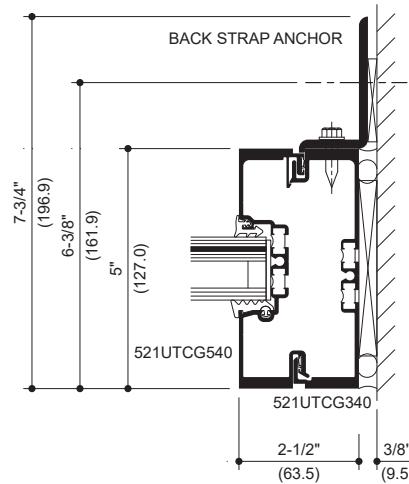
HEAD



OPTIONAL HEAD
WITH STOP

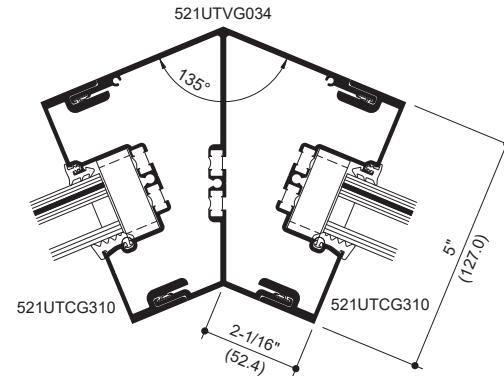
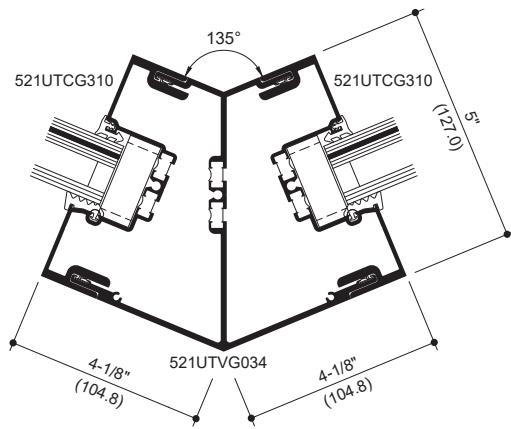
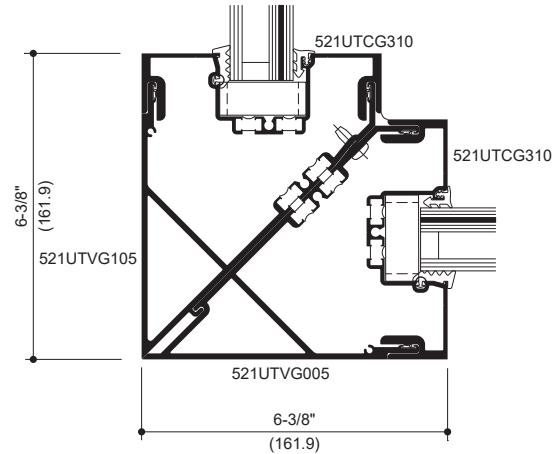
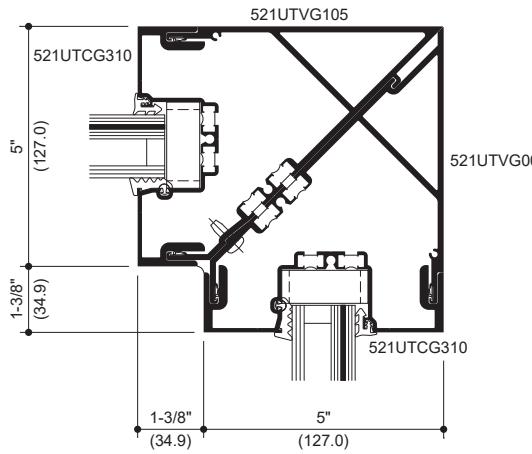


FIRST BAY JAMB



LAST BAY JAMB

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



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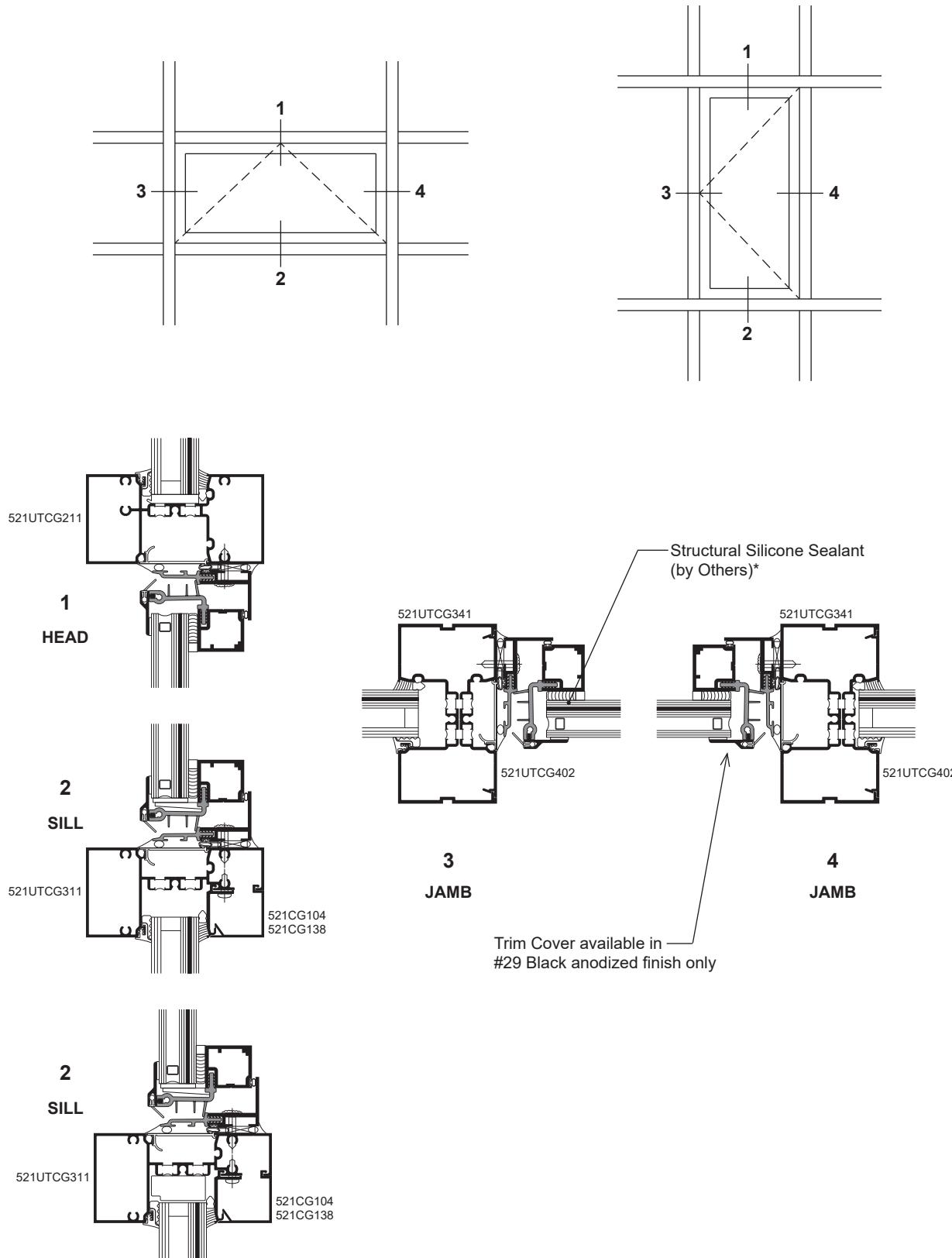
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1-5/16" INFILL (PRE GLAZED - DRY GLAZED)

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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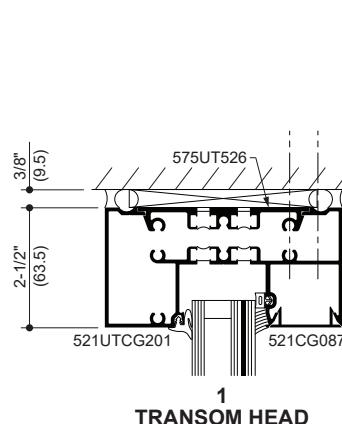
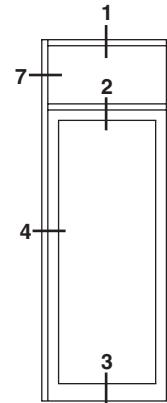
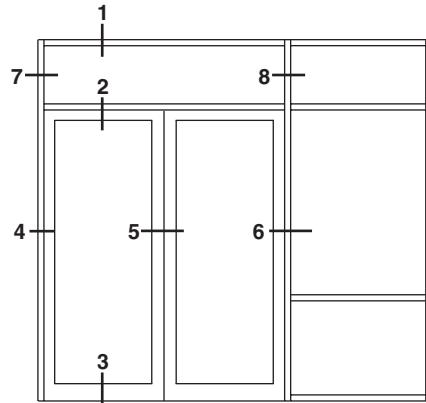


* **INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone, Structural Glazing Tape, and Insulating Glass Unit Manufacturers.

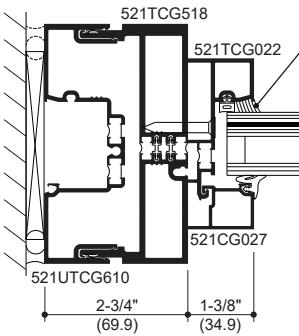
Additional information and CAD details are available at www.kawneer.com

IR 521UT FRAMING INCORPORATING KAWNEER 350T INSULPOUR® DOORS.

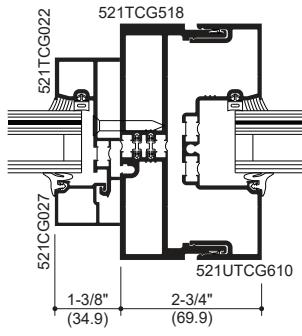
SEE 250T/350T/500T INSULPOUR® ENTRANCES FOR ADDITIONAL DOOR AND ENTRANCE FRAMING OPTIONS.



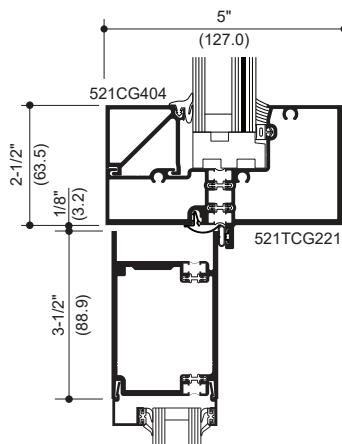
ELEVATION IS NUMBER KEYED TO DETAILS



7
DOOR JAMB
AT TRANSOM

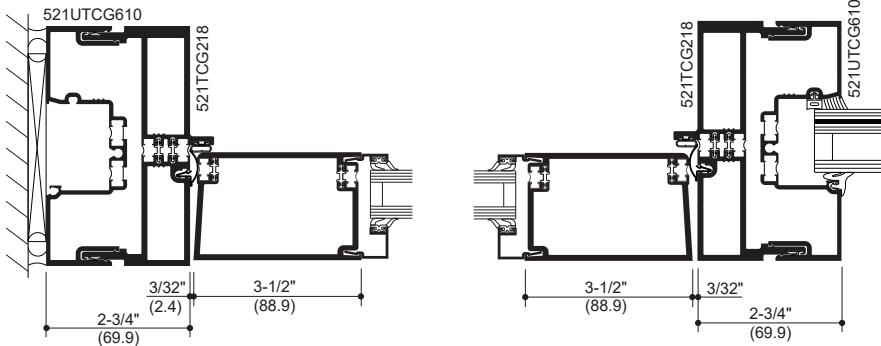


8
DOOR JAMB
AT TRANSOM

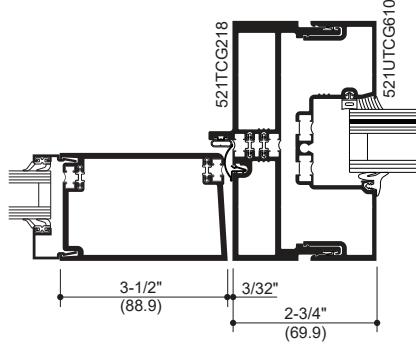


2
DOOR WITH TRANSOM

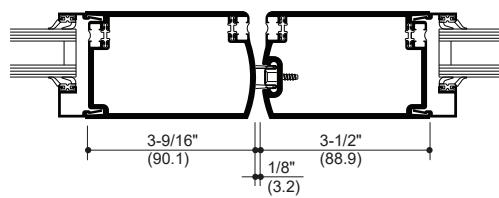
Transom for C.O.C. also available



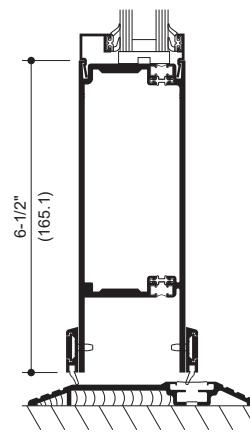
4
DOOR JAMB



6
DOOR JAMB



5
PAIR OF DOORS



3
THRESHOLD

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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* 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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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.

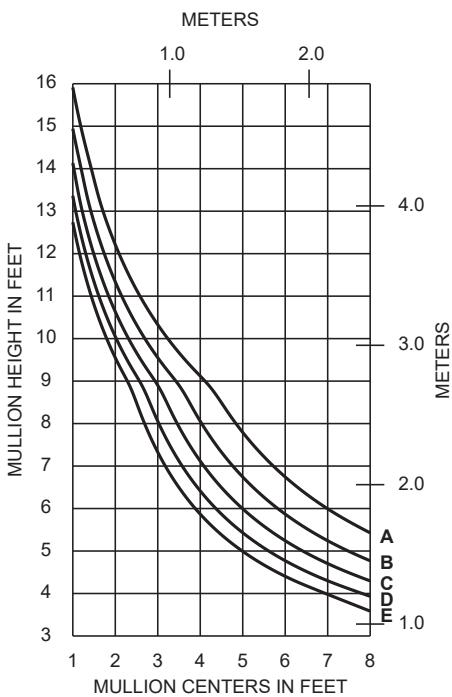
DEADLOAD CHARTS

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.

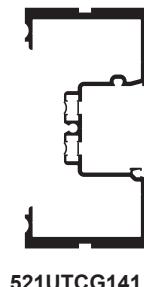
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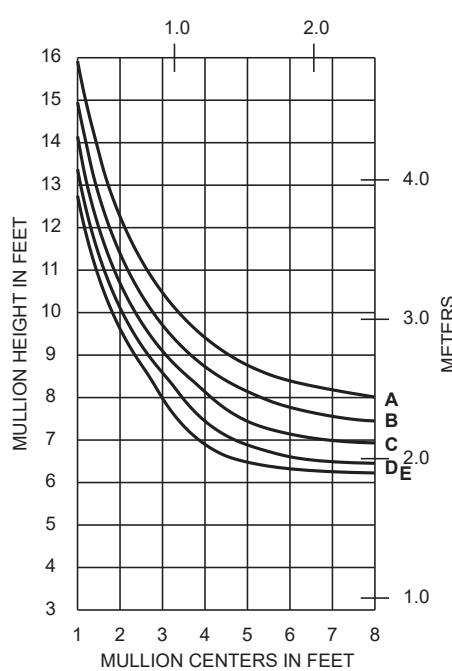
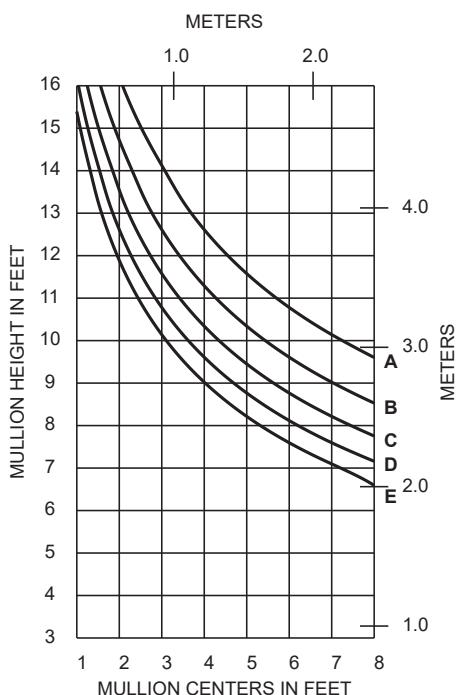
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521UTCG141
WITH HORIZONTALS

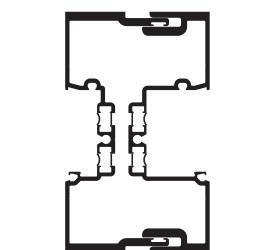
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)



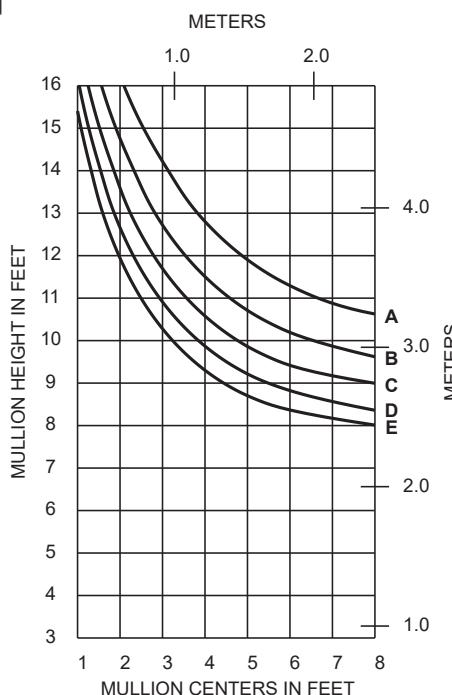
WIND LOAD CHARTS ARE BASED ON
COMPOSITE PROPERTIES WHICH ARE
CALCULATED IN ACCORDANCE WITH
AAMA TIR-8 AND AAMA 505

521UTCG141
WITHOUT HORIZONTALS521UTCG309 & 521UTCG310
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)



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

521UTCG309 & 521UTCG310
WITHOUT HORIZONTALS

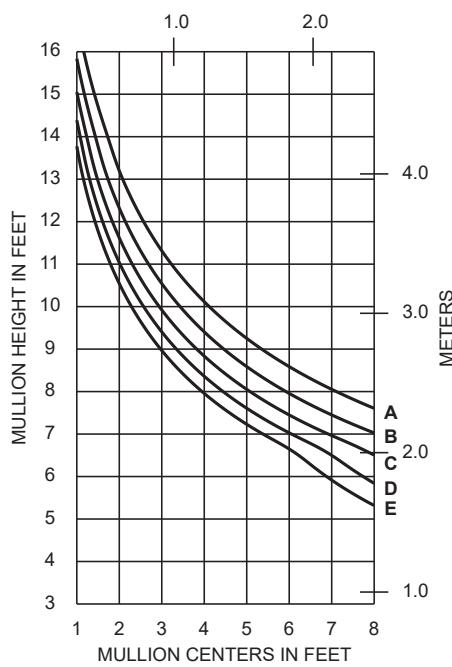
WIND LOAD CHARTS

EC 97911-333

HURRICANE RESISTANT PRODUCT

521UTCG240 & 521UTCG340
WITH HORIZONTALS

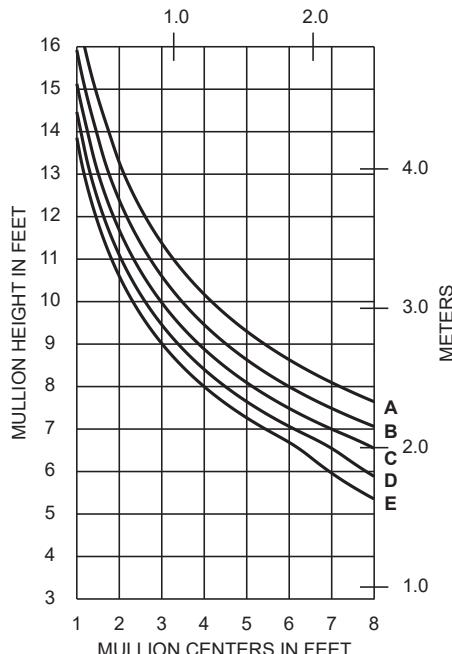
METERS



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

521UTCG540 & 521UTCG340
WITH HORIZONTALS

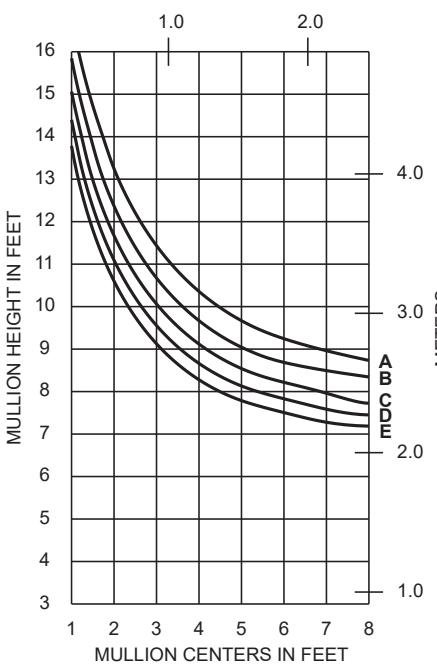
METERS



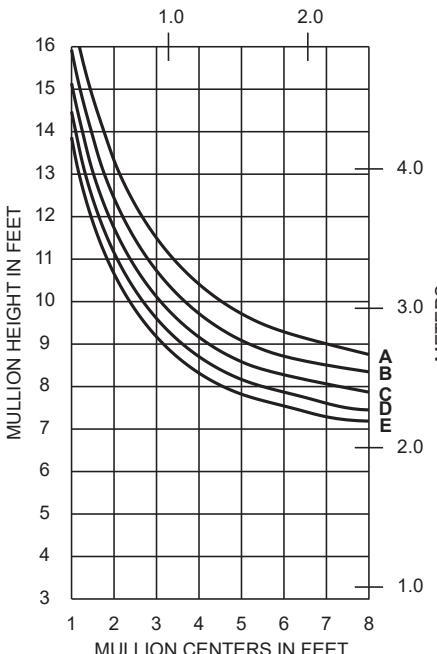
WIND LOAD CHARTS ARE BASED ON
COMPOSITE PROPERTIES WHICH ARE
CALCULATED IN ACCORDANCE WITH
AAMA TIR-8 AND AAMA 505

521UTCG240 & 521UTCG340
WITHOUT HORIZONTALS

METERS

521UTCG540 & 521UTCG340
WITHOUT HORIZONTALS

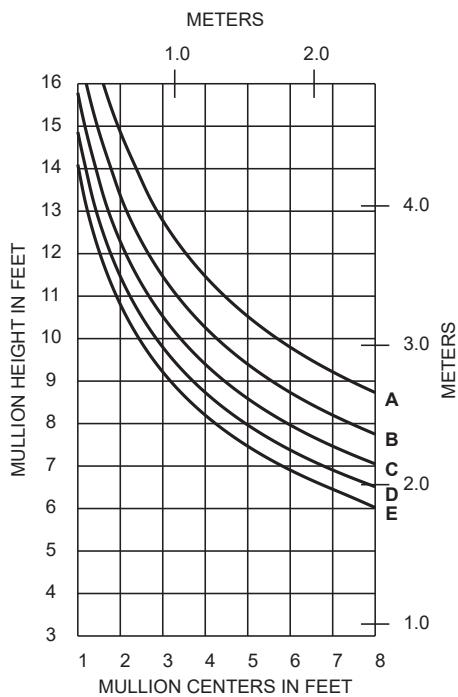
METERS



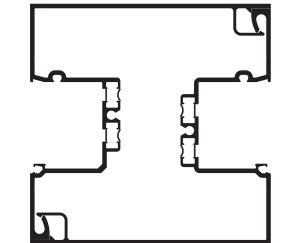
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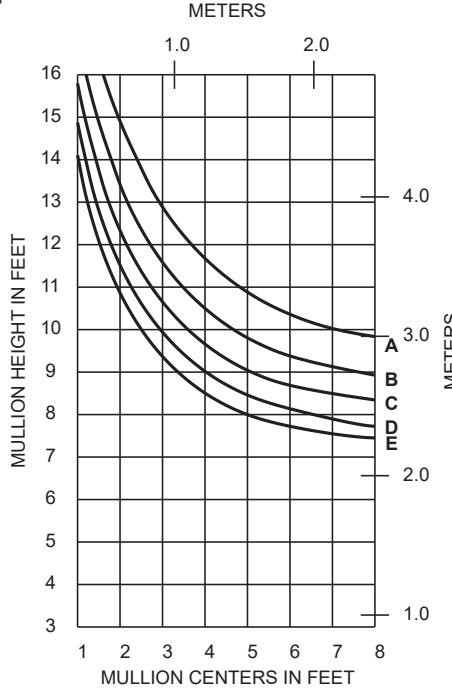
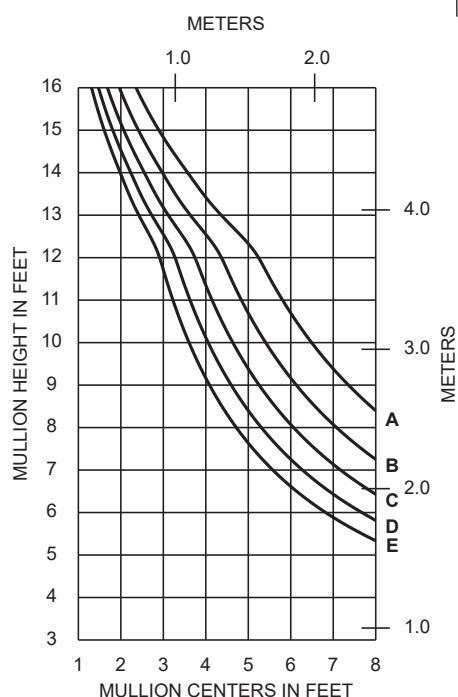
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521UTCG316 & 521UTCG116
WITH HORIZONTALS

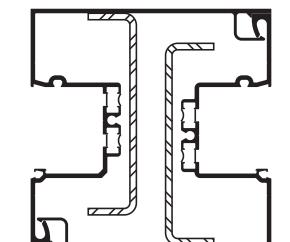
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)



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

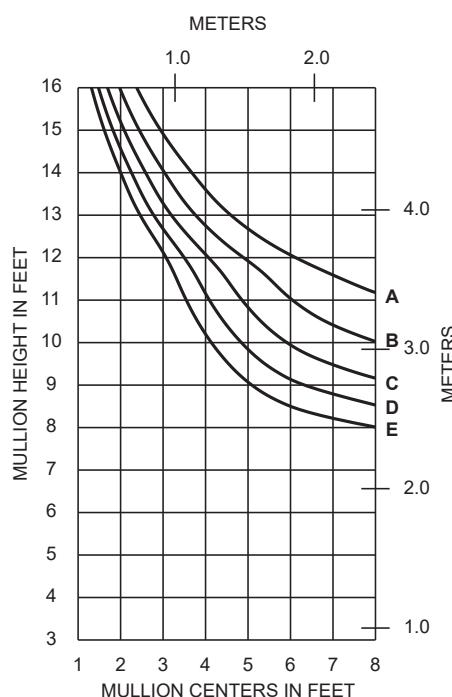
521UTCG316 & 521UTCG116
WITHOUT HORIZONTALS521UTCG316 & 521UTCG116 WITH STEEL
WITH HORIZONTALS

	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 (3840)	133 PSF (6380)
E =	90 PSF (4320)	150 PSF (7200)



575300 STEEL
 $I_{xx} 1.664 (80.54 \times 10^4)$
 $S_{xx} 0.804 (15.37 \times 10^3)$

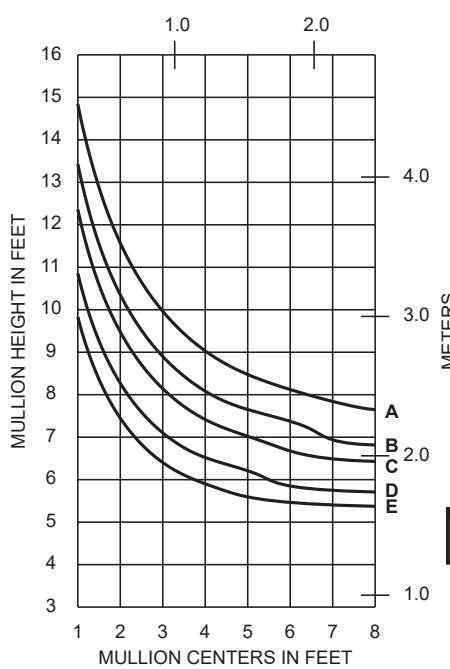
WIND LOAD CHARTS ARE BASED ON
COMPOSITE PROPERTIES WHICH ARE
CALCULATED IN ACCORDANCE WITH
AAMA TIR-8 AND AAMA 505

521UTCG316 & 521UTCG116 WITH STEEL
WITHOUT HORIZONTALS

521UTCG011
SINGLE SPAN

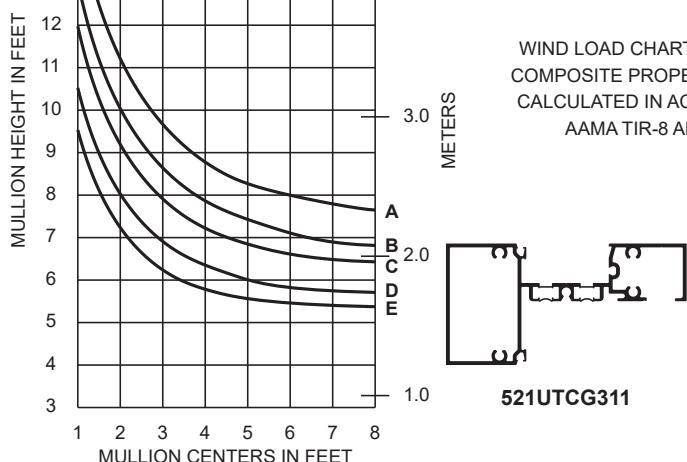
METERS

	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)

521UTCG311
SINGLE SPAN

METERS

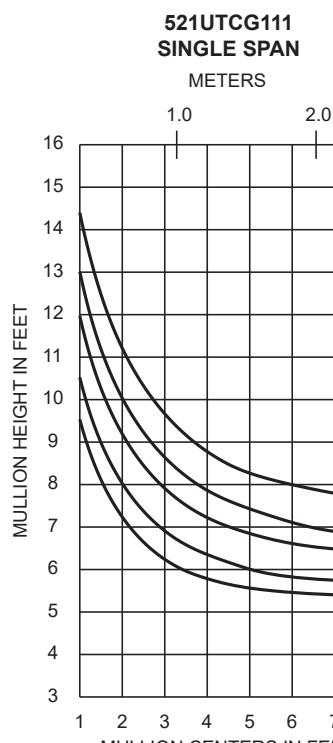
WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505



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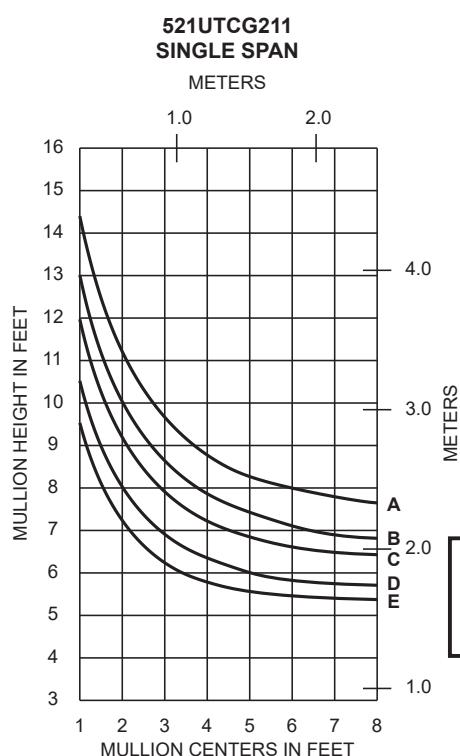
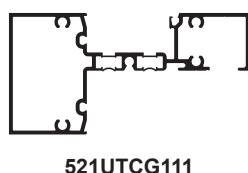
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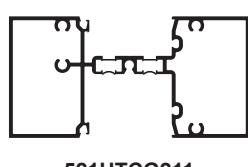


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	70 PSF (3360)	117 PSF (5600)
E =	90 PSF (4310)	150 PSF (7200)

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



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



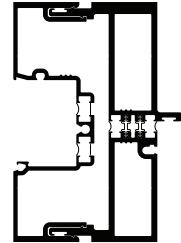
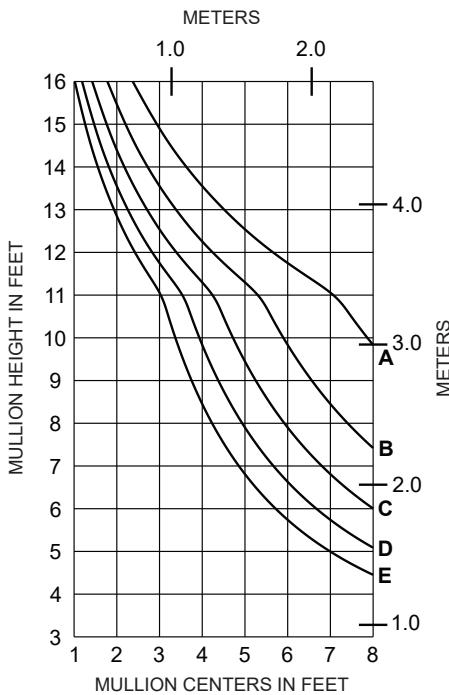
WIND LOAD CHARTS

EC 97911-333

HURRICANE RESISTANT PRODUCT

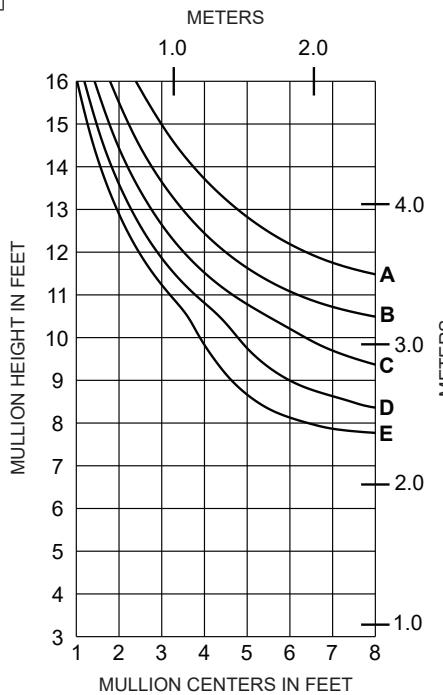
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)

WITH HORIZONTALS



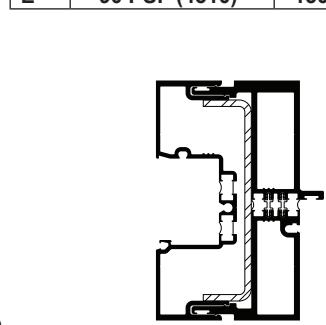
WIND LOAD CHARTS ARE BASED ON
COMPOSITE PROPERTIES WHICH ARE
CALCULATED IN ACCORDANCE WITH
AAMA TIR-8 AND AAMA 505

WITHOUT HORIZONTALS



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)

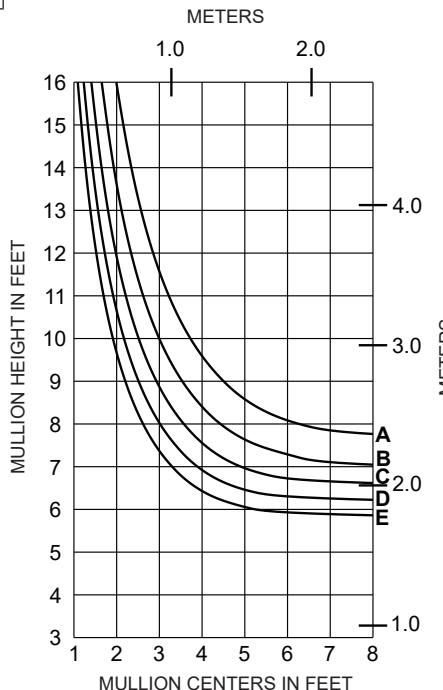


521UTCG610 / 521UTCG218
WITH 575300 STEEL

575300 STEEL
I_{xx} 1.664 (80.54 x 10⁴)
S_{xx} 0.804 (15.37 x 10³)

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

WITHOUT HORIZONTALS

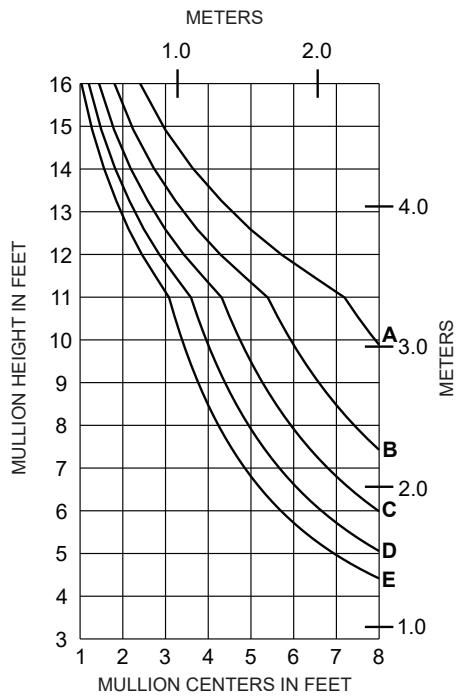


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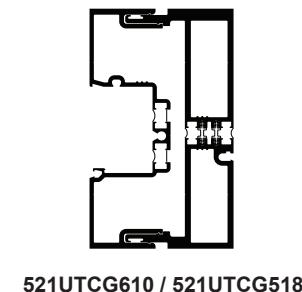
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WITH HORIZONTALS

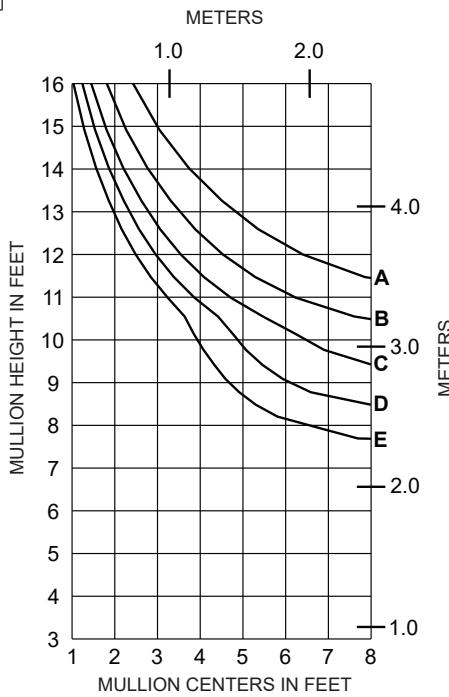


	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)

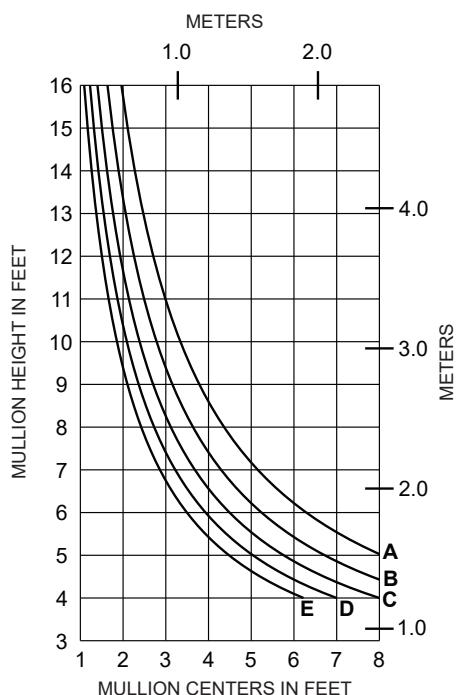


WIND LOAD CHARTS ARE BASED ON
COMPOSITE PROPERTIES WHICH ARE
CALCULATED IN ACCORDANCE WITH
AAMA TIR-8 AND AAMA 505

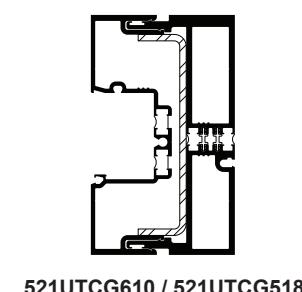
WITHOUT HORIZONTALS



WITH HORIZONTALS



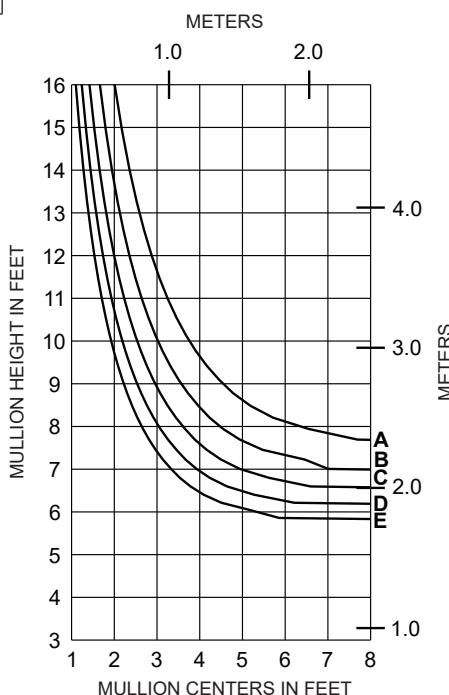
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)



575300 STEEL
 $I_{xx} = 1.664 (80.54 \times 10^4)$
 $S_{xx} = 0.804 (15.37 \times 10^3)$

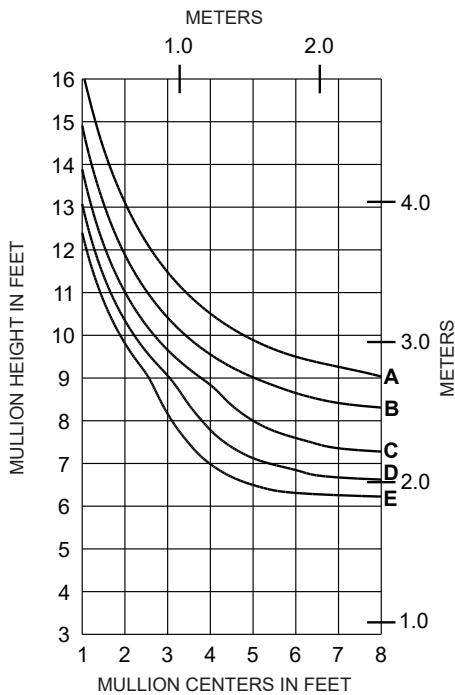
WIND LOAD CHARTS ARE BASED ON
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WITHOUT HORIZONTALS

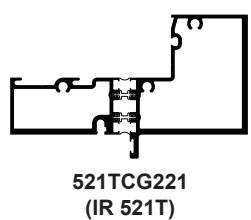
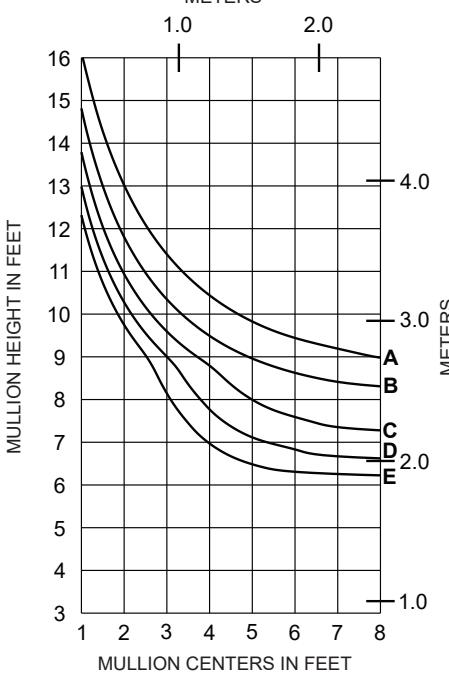


521TCG221
SINGLE SPAN

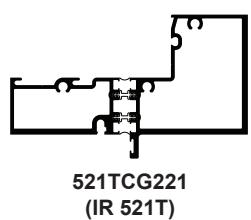
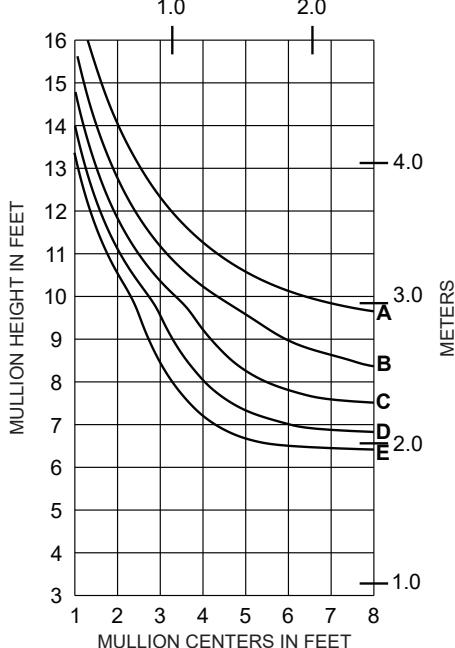
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)



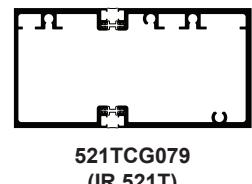
WIND LOAD CHARTS ARE BASED ON
COMPOSITE PROPERTIES WHICH ARE
CALCULATED IN ACCORDANCE WITH
AAMA TIR-8 AND AAMA 505

521TCG521
SINGLE SPAN

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

521TCG079
SINGLE SPAN

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

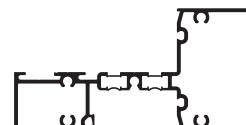
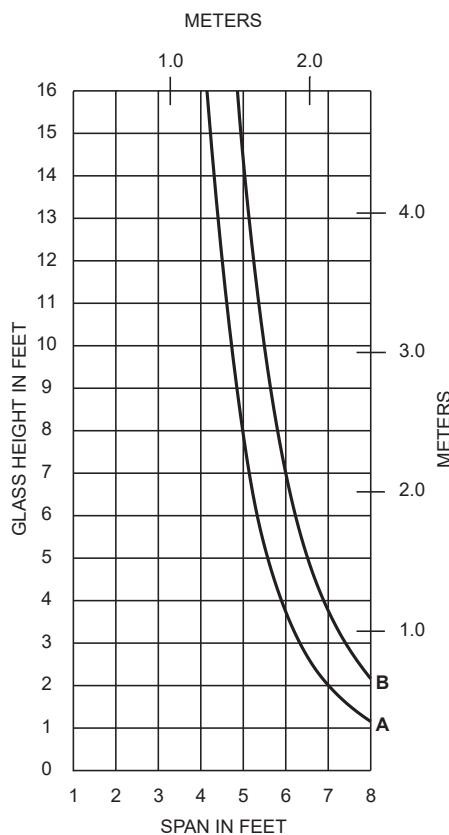


DEADLOAD CHARTS

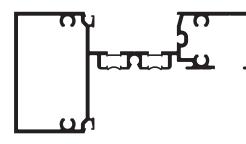
HURRICANE RESISTANT PRODUCT

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.

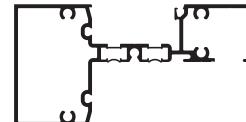
A = (1/4 POINT LOADING)
B = (1/8 POINT LOADING)



521UTCG011



521UTCG311



521UTCG111

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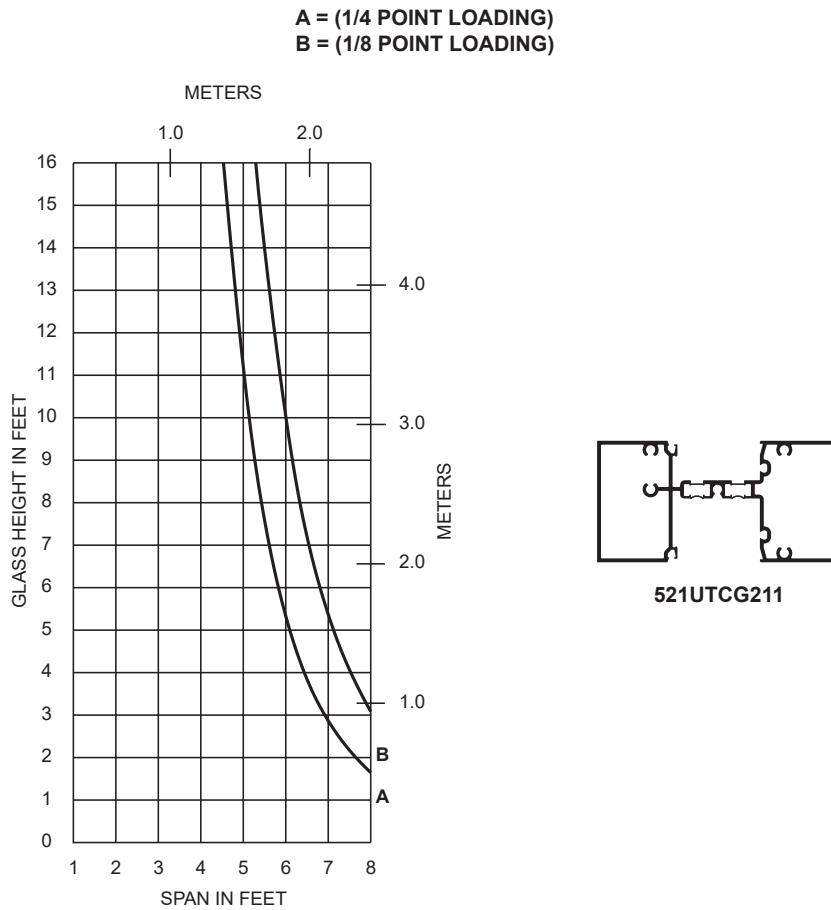
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DEADLOAD CHARTS

EC 97911-333

 HURRICANE RESISTANT PRODUCT

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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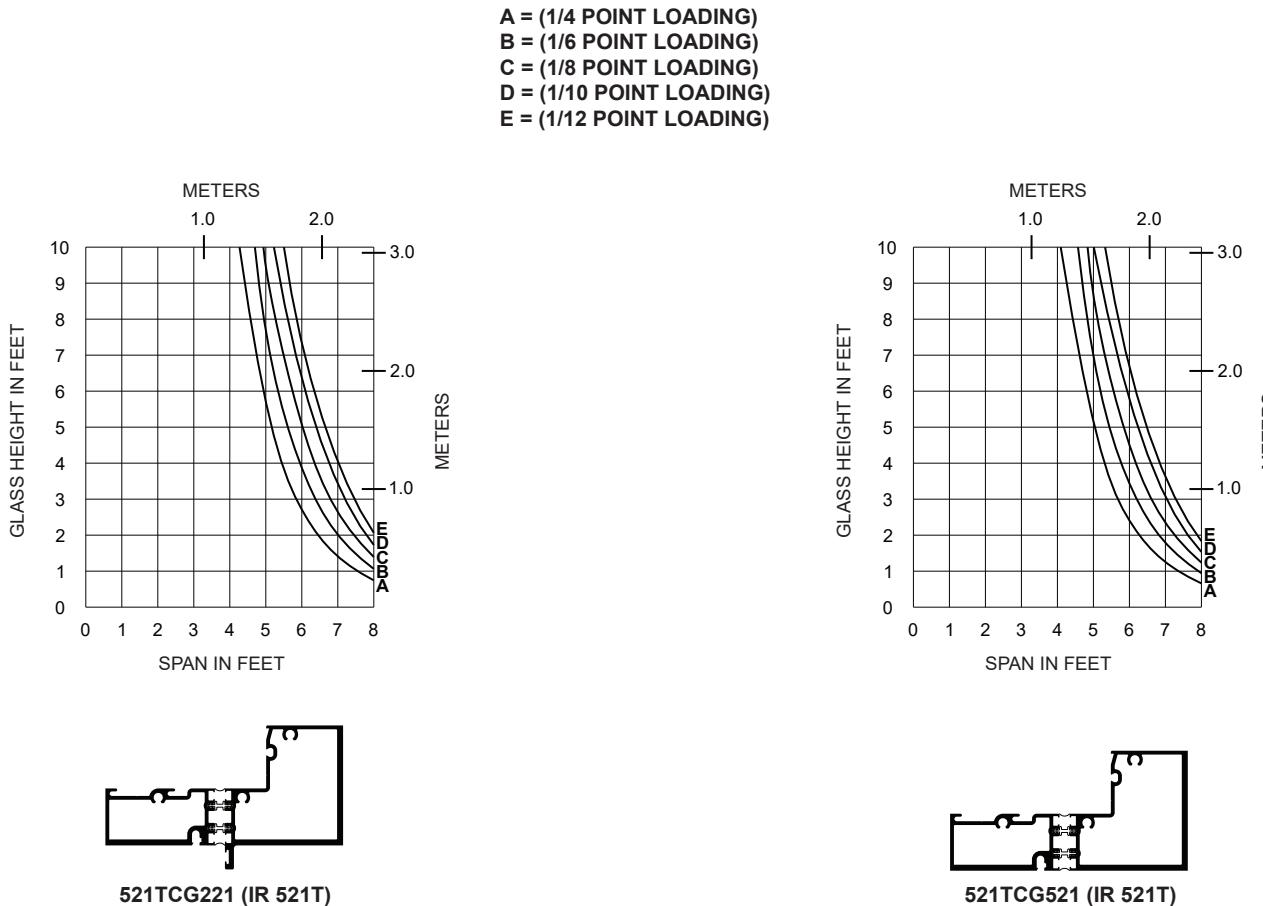
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DEADLOAD CHARTS

HURRICANE RESISTANT PRODUCT

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.



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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"

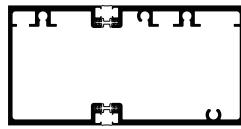
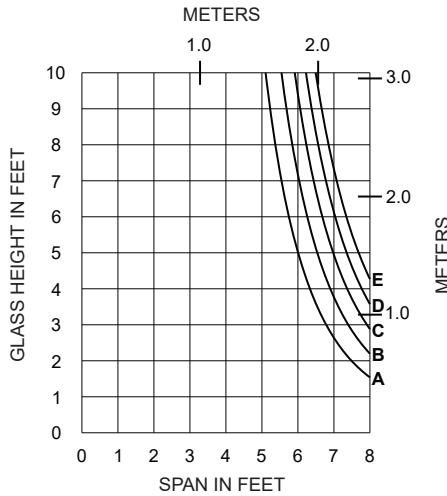
DEADLOAD CHARTS

EC 97911-333

 HURRICANE RESISTANT PRODUCT

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)



521TCG079 (IR 521T)

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

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