HURRICANE RESISTANT PRODUCT

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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EC 97911-339

HURRICANE RESISTANT PRODUCT

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

IR 521/521T Framing System

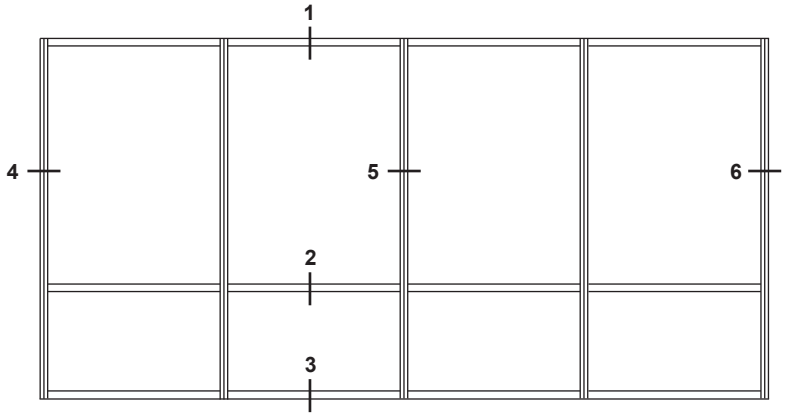
JULY 2025

BASIC FRAMING DETAILS (Outside Glazed)

EC 97911-339

HURRICANE RESISTANT PRODUCT

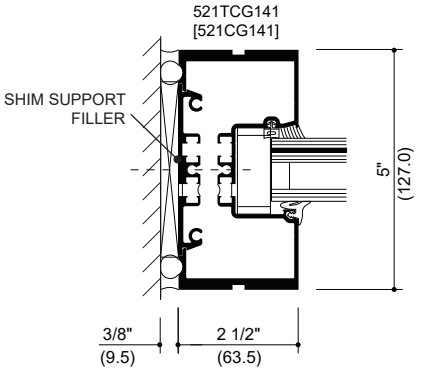
Additional information and CAD details are available at www.kawneer.com



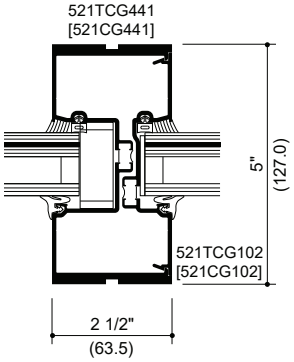
ELEVATION IS NUMBER KEYED TO DETAILS

IR 521 IsoLock®
NON-THERMAL

IR 521T Single IsoLock®
THERMAL BREAK (SHOWN)



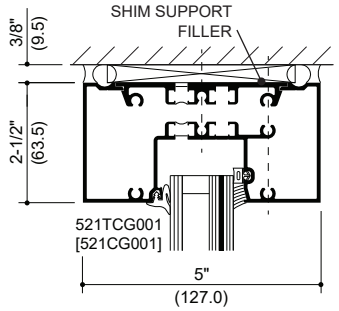
4
JAMB



5
VERTICAL MULLION

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

1
HEAD



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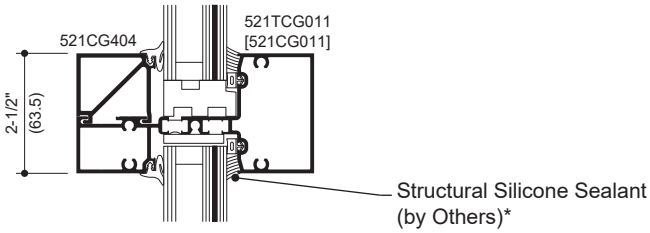
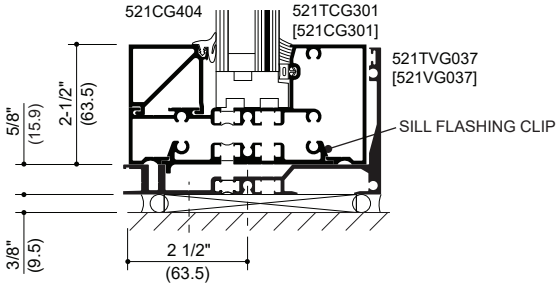
HORIZONTAL



3
SILL

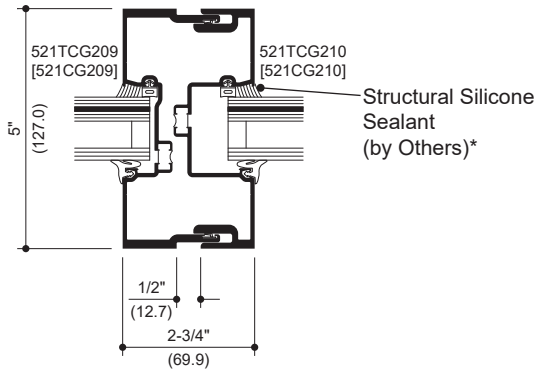


*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

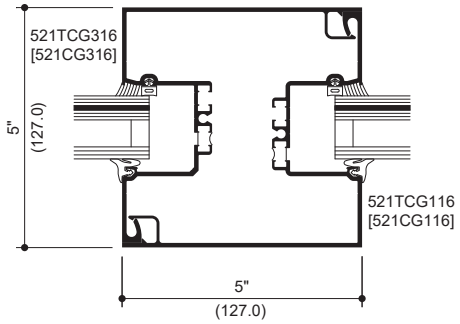
HURRICANE RESISTANT PRODUCT

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

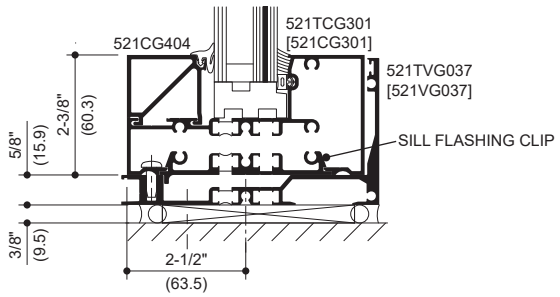
1-5/16" INFILL (FIELD GLAZED - WET GLAZED)



EXPANSION MULLION



5" x 5" MULLION



PINNED HORIZONTAL TO SILL FLASHING

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IR 521/521T Framing System

JULY 2025

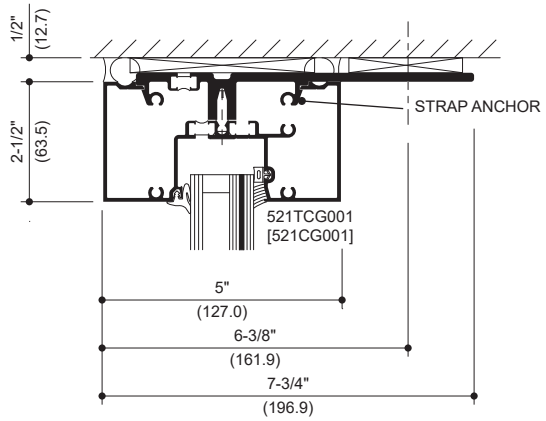
STRAP ANCHOR DETAILS (Outside Glazed)

EC 97911-339

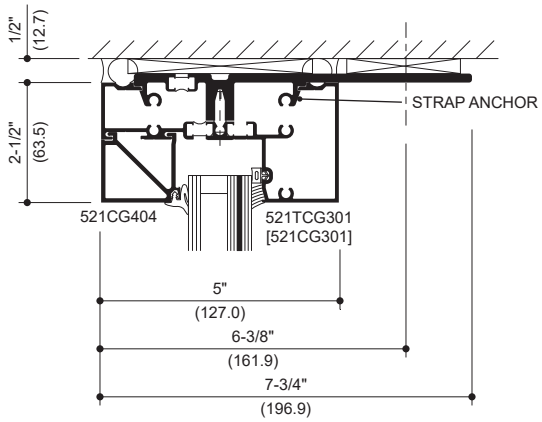
HURRICANE RESISTANT PRODUCT

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

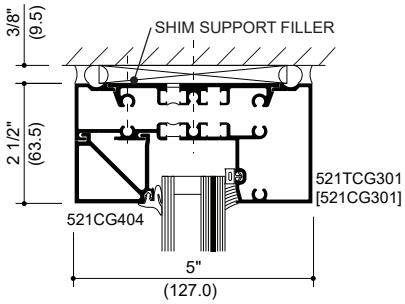
1-5/16" INFILL (FIELD GLAZED - WET GLAZED)



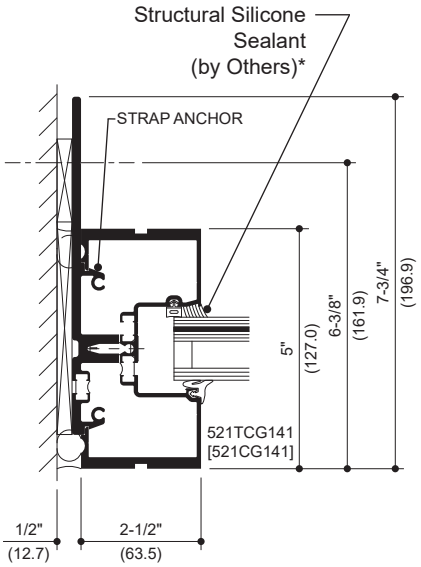
HEAD



OPTIONAL HEAD WITH STOP



OPTIONAL HEAD WITH STOP



JAMB

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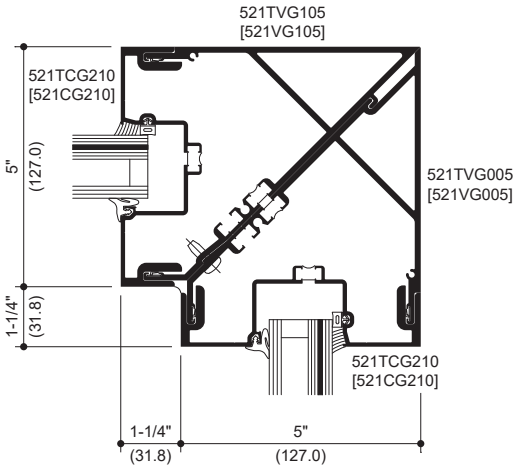
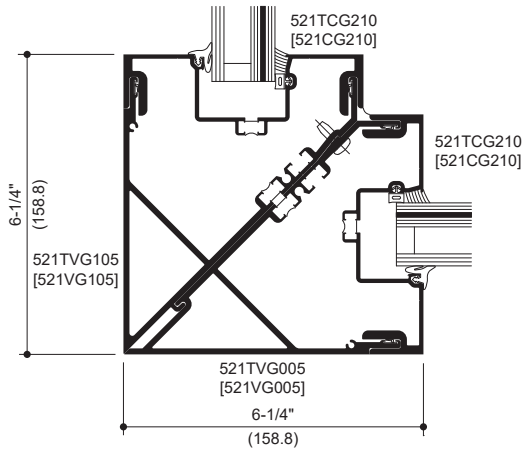
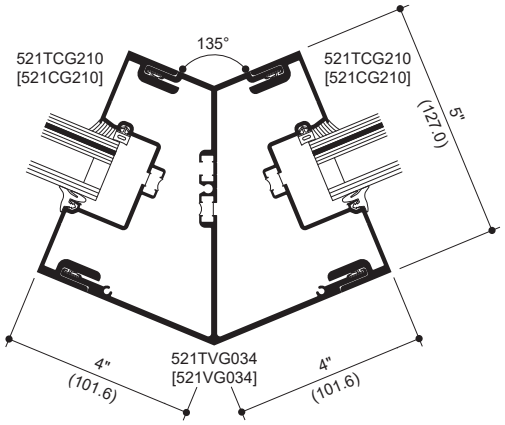
HURRICANE RESISTANT PRODUCT

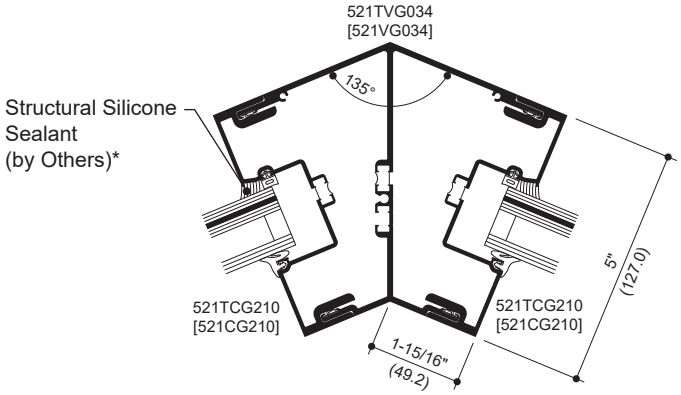
Additional information and CAD details are available at www.kawneer.com

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









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IR 521/521T Framing System

JULY 2025

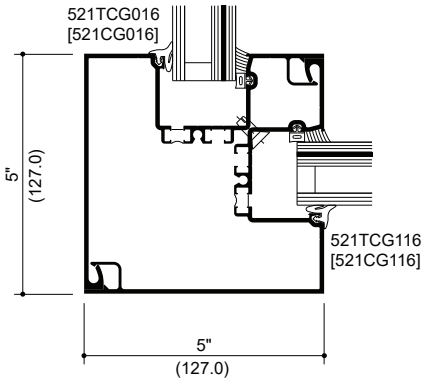
CORNER DETAILS (Outside Glazed)

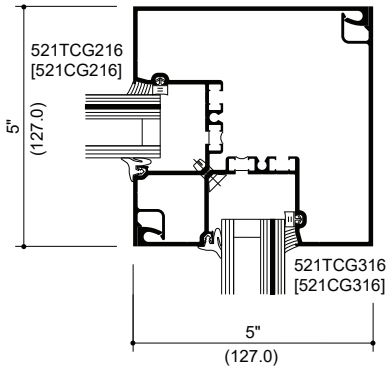
EC 97911-339

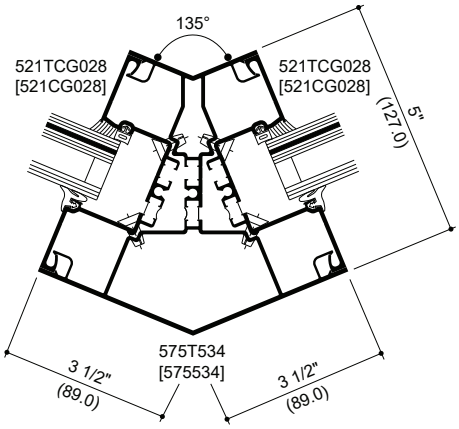
HURRICANE RESISTANT PRODUCT

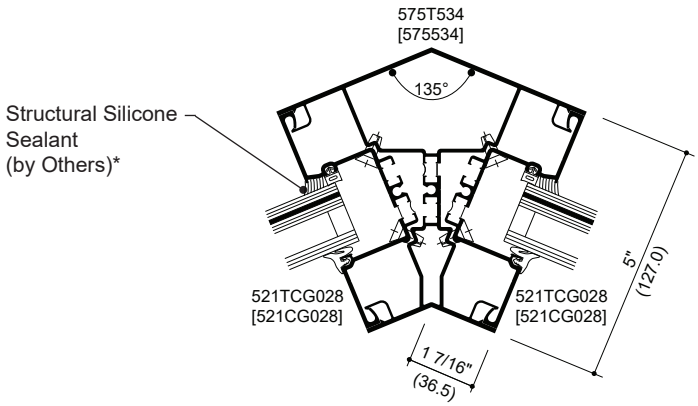
Additional information and CAD details are available at www.kawneer.com

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









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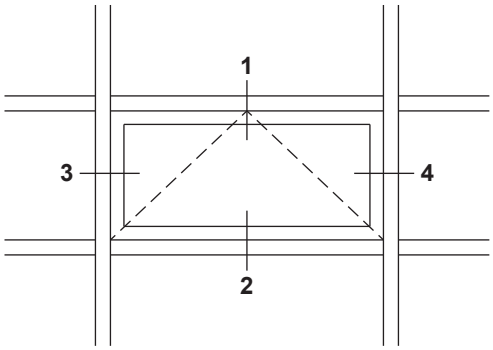
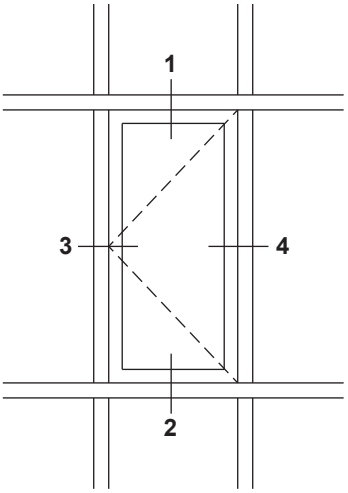
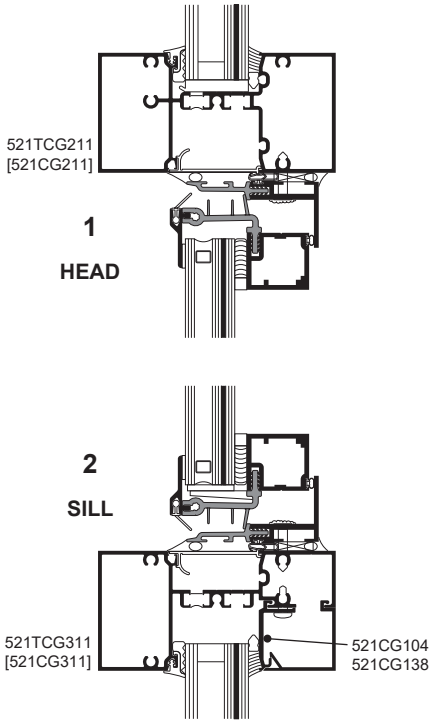
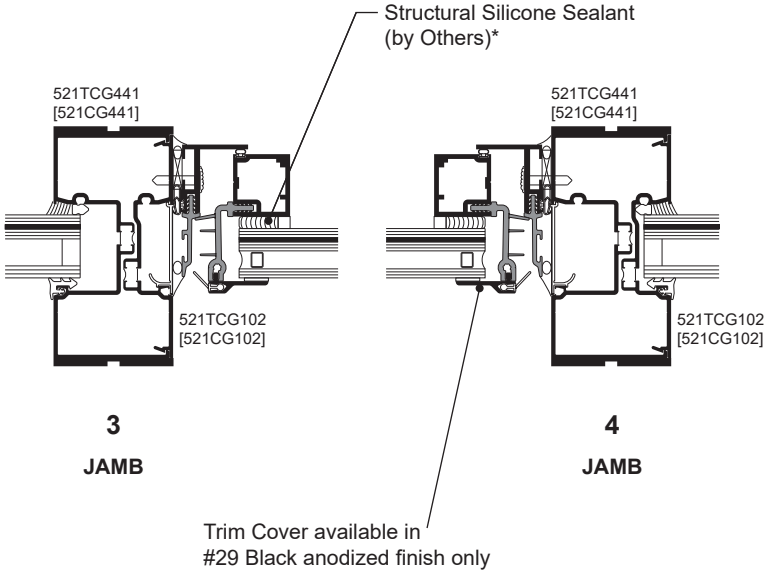
1-5/16" INFILL (FIELD GLAZED - WET GLAZED)









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IR 521/521T Framing System

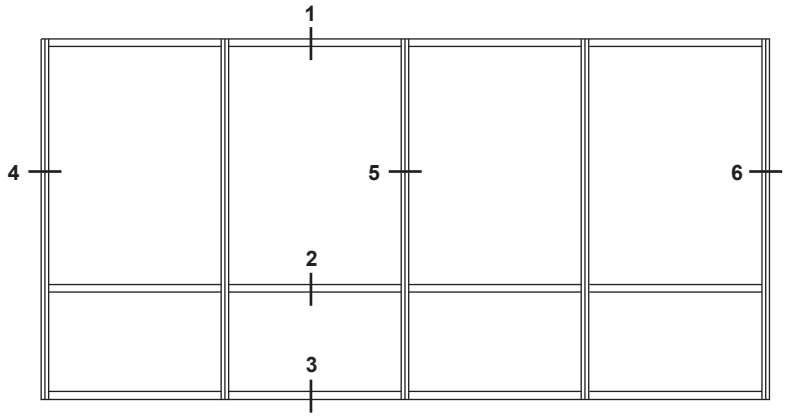
JULY 2025

BASIC FRAMING DETAILS (Outside Glazed)

EC 97911-339

HURRICANE RESISTANT PRODUCT

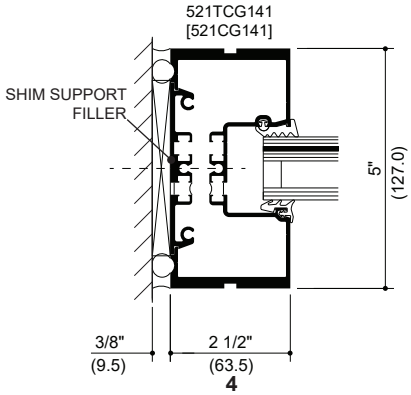
Additional information and CAD details are available at www.kawneer.com



ELEVATION IS NUMBER KEYED TO DETAILS

IR 521 IsoLock®
NON-THERMAL

IR 521T Single IsoLock®
THERMAL BREAK (SHOWN)



4
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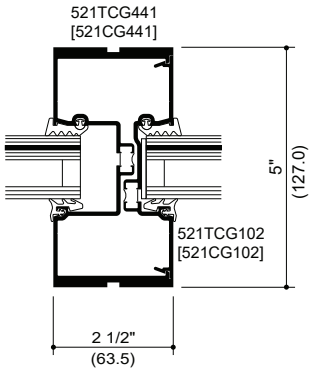
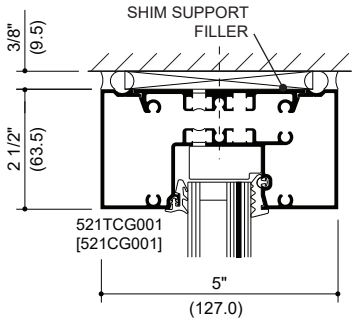


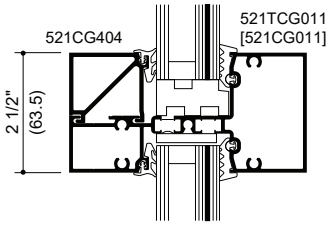
5
VERTICAL MULLION

1
HEAD

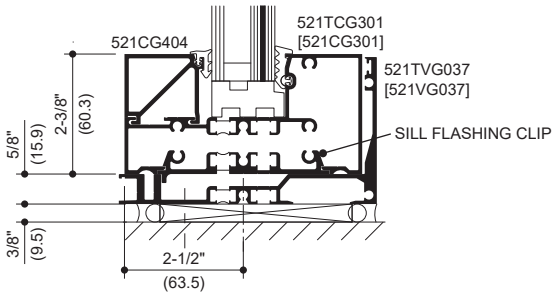


1-5/16" INFILL
(FIELD GLAZED - DRY GLAZED)

2
HORIZONTAL



3
SILL



HURRICANE RESISTANT PRODUCT

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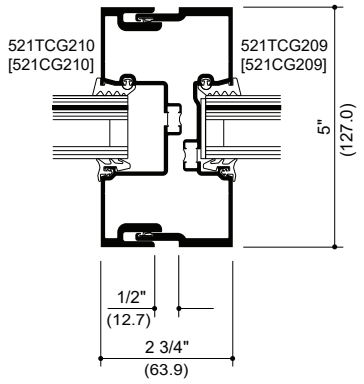
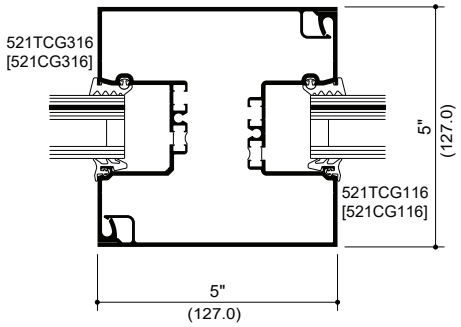
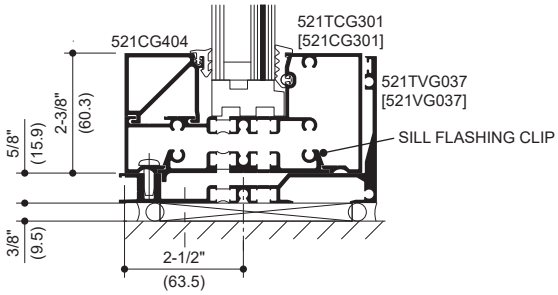
1-5/16" INFILL (FIELD GLAZED - DRY GLAZED)



EXPANSION MULLION



5" x 5" MULLION



PINNED HORIZONTAL TO SILL FLASHING

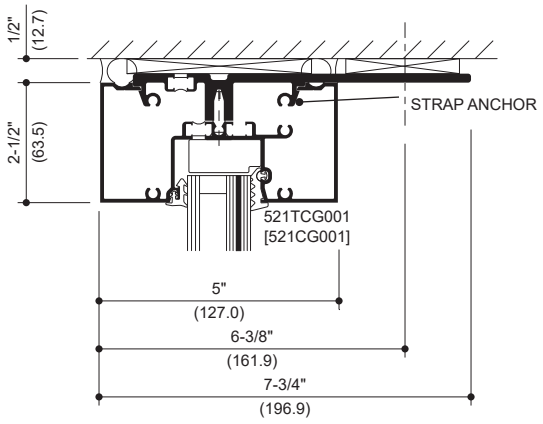
IR 521/521T Framing System

STRAP ANCHOR DETAILS (Outside Glazed)

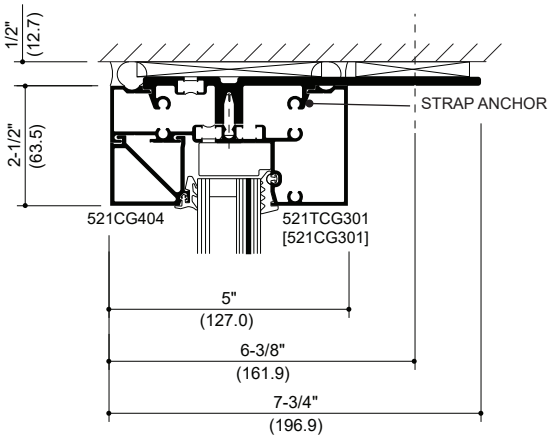
HURRICANE RESISTANT PRODUCT

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

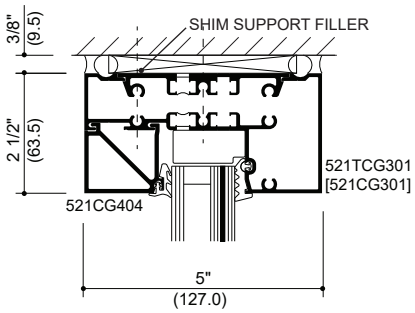
1-5/16" INFILL (FIELD GLAZED - DRY GLAZED)



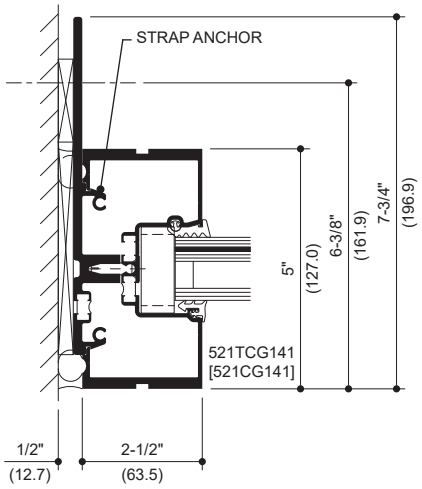
HEAD



OPTIONAL HEAD WITH STOP



OPTIONAL HEAD WITH STOP



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HURRICANE RESISTANT PRODUCT

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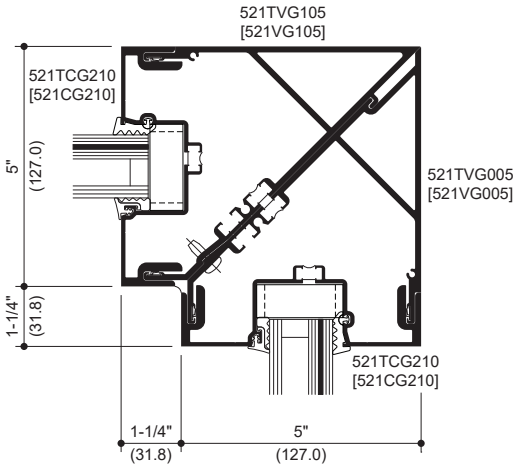
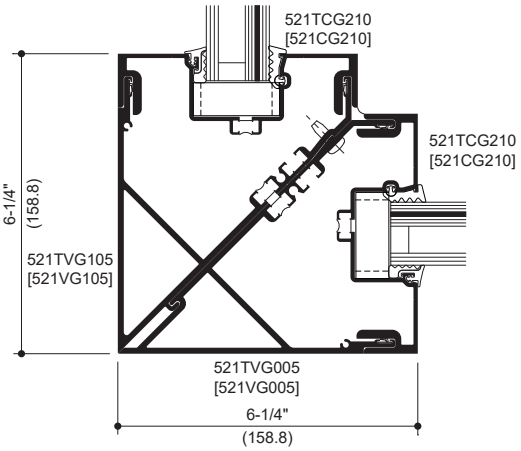
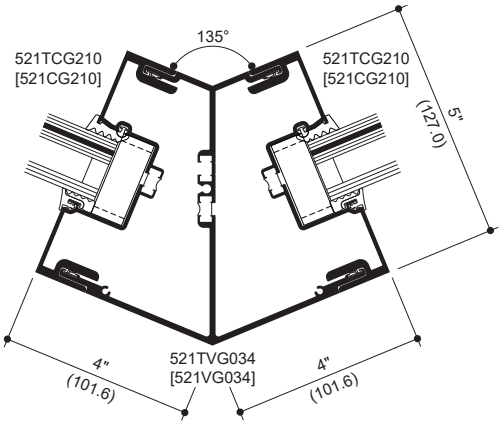
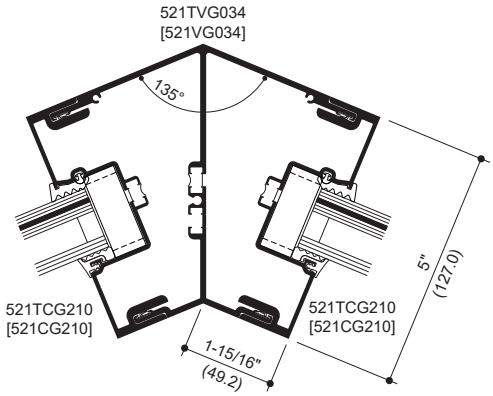
1-5/16" INFILL (FIELD GLAZED - DRY GLAZED)









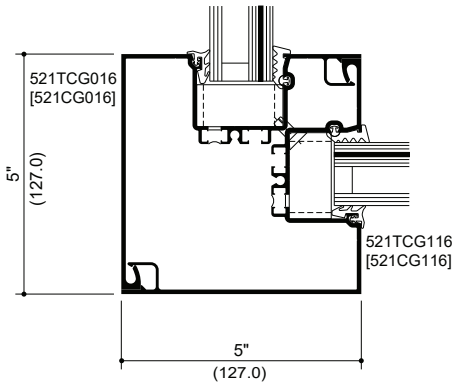
IR 521/521T Framing System

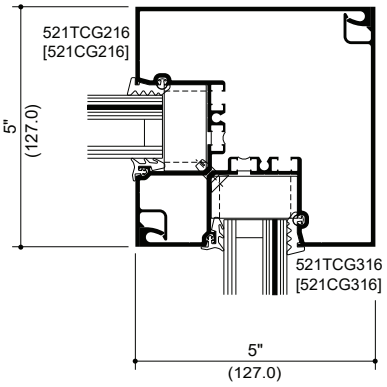
CORNER DETAILS (Outside Glazed)

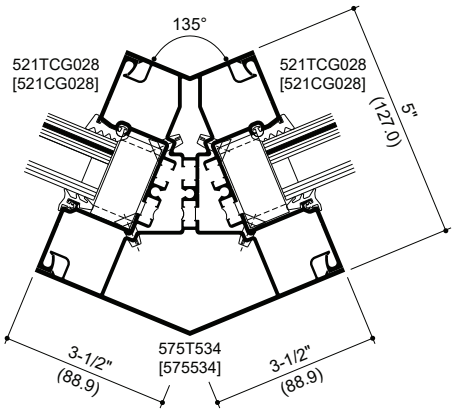
HURRICANE RESISTANT PRODUCT

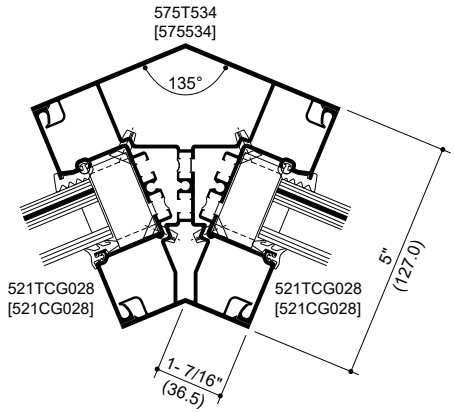
Additional information and CAD details are available at www.kawneer.com

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

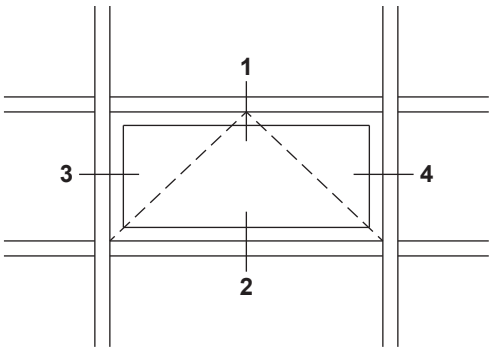


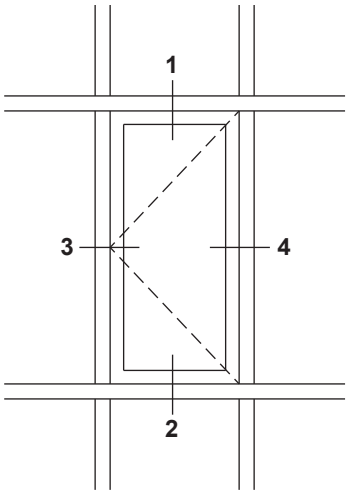


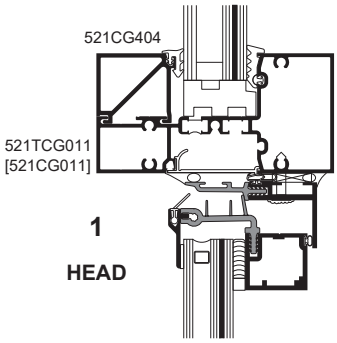


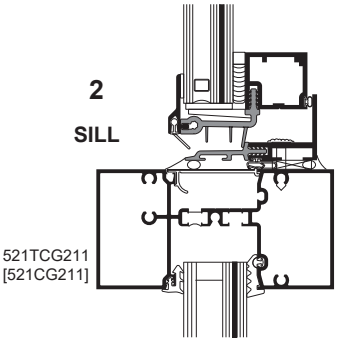


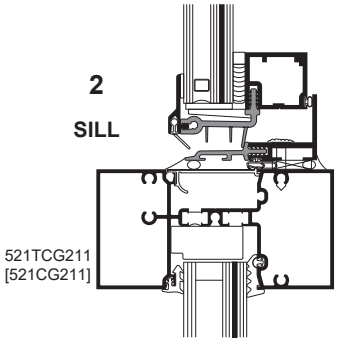
1-5/16" INFILL (FIELD GLAZED - DRY GLAZED)

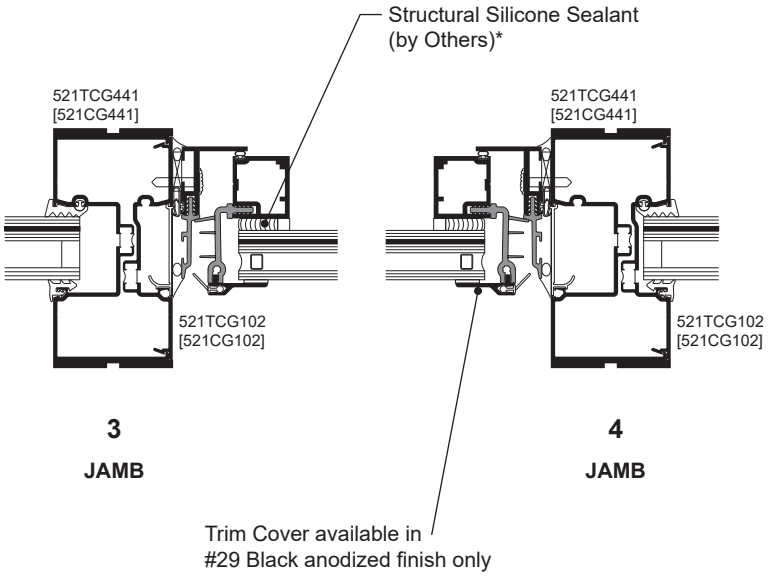












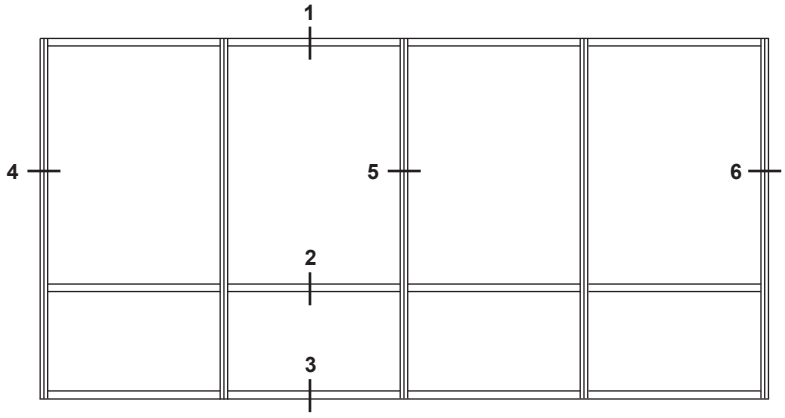
*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone, Structural Glazing Tape, and Insulating Glass Unit Manufacturers.

IR 521/521T Framing System

BASIC FRAMING DETAILS (Inside Glazed)

HURRICANE RESISTANT PRODUCT

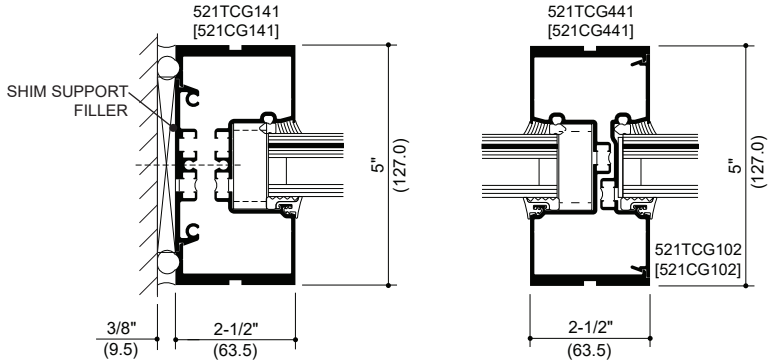
Additional information and CAD details are available at www.kawneer.com



ELEVATION IS NUMBER KEYED TO DETAILS

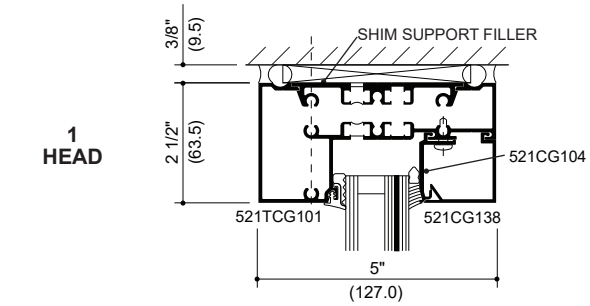
IR 521 IsoLock®
NON-THERMAL

IR 521T Single IsoLock®
THERMAL BREAK (SHOWN)



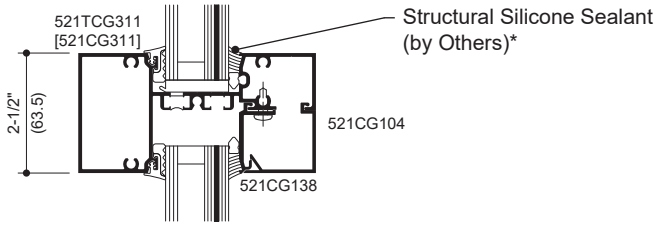
4
JAMB

5
VERTICAL MULLION

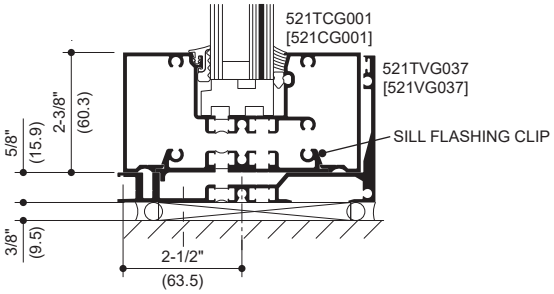


1
HEAD

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



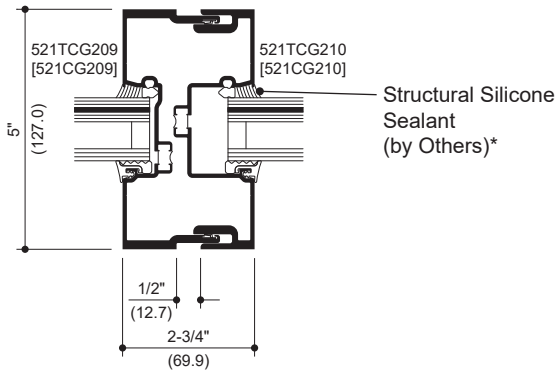
2
HORIZONTAL



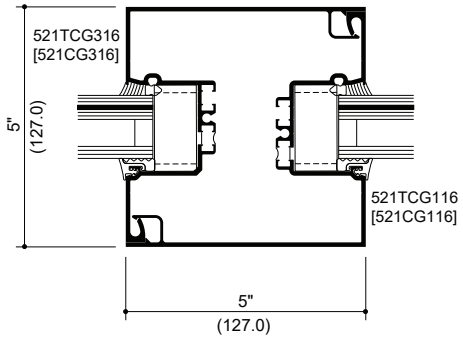
3
SILL

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

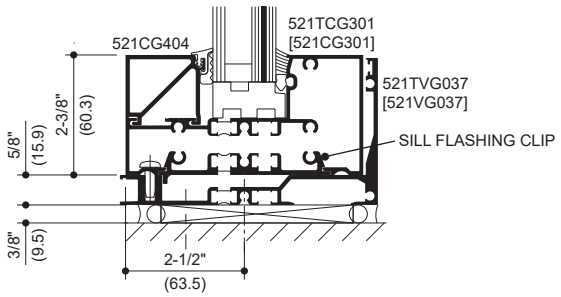
1-5/16" INFILL (FIELD GLAZED - WET GLAZED)



EXPANSION MULLION



5" x 5" MULLION



PINNED HORIZONTAL TO SILL FLASHING

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

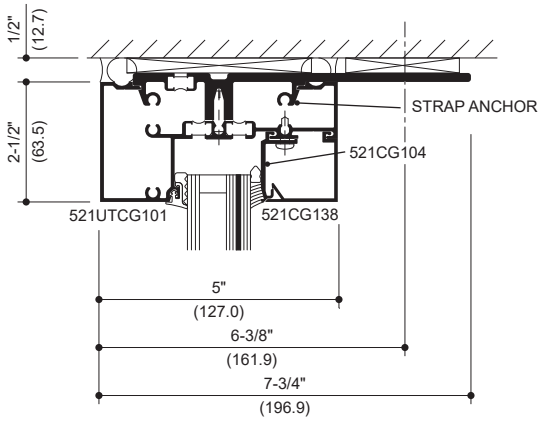
IR 521/521T Framing System

STRAP ANCHOR DETAILS (Inside Glazed)

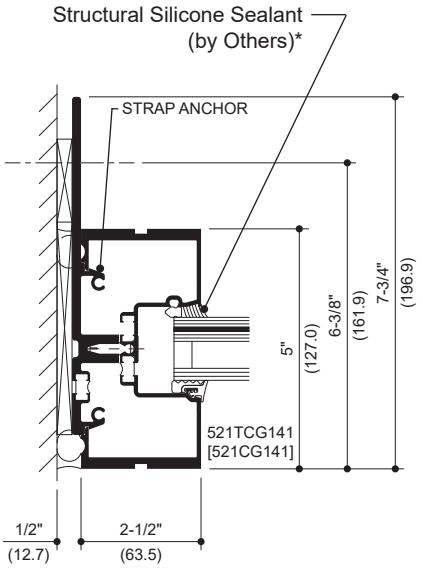
HURRICANE RESISTANT PRODUCT

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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HURRICANE RESISTANT PRODUCT

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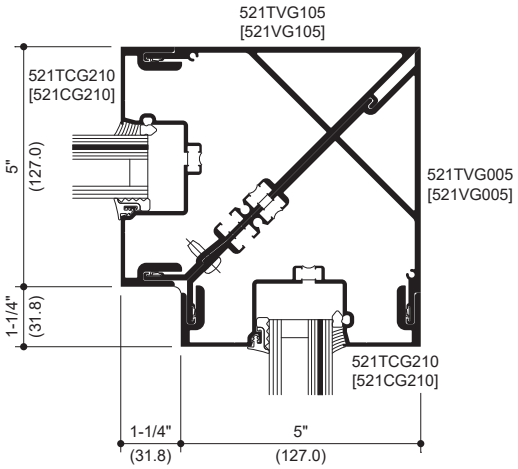
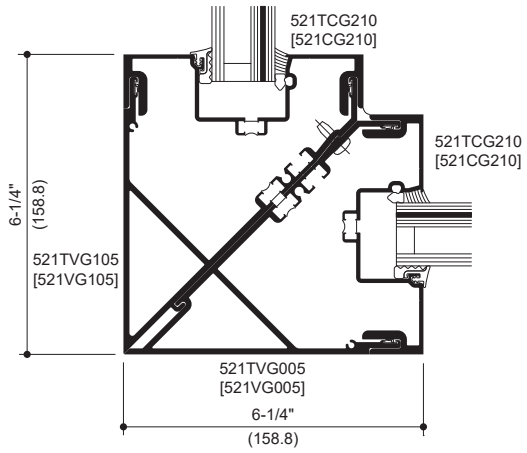
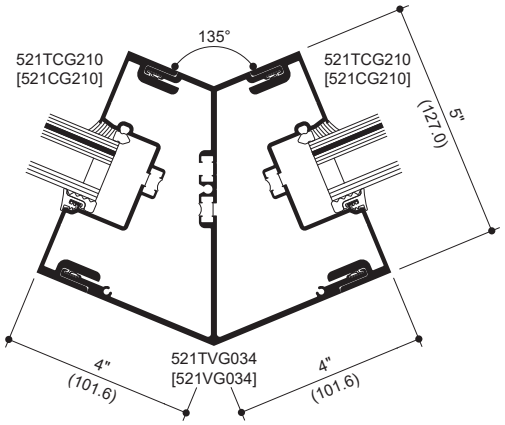
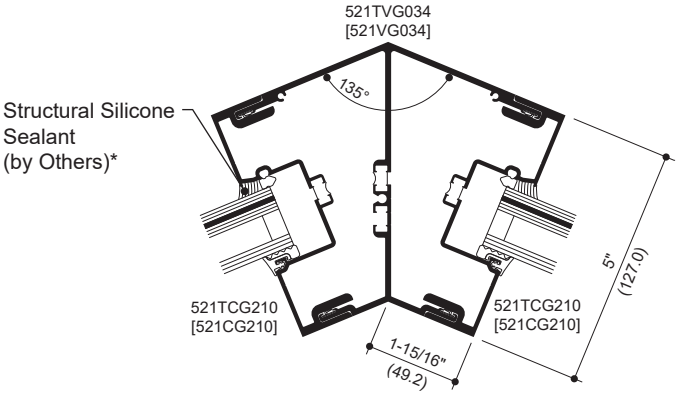
1-5/16" INFILL (FIELD GLAZED - WET GLAZED)









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HURRICANE RESISTANT PRODUCT

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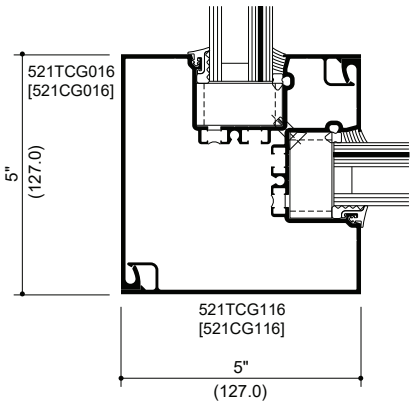
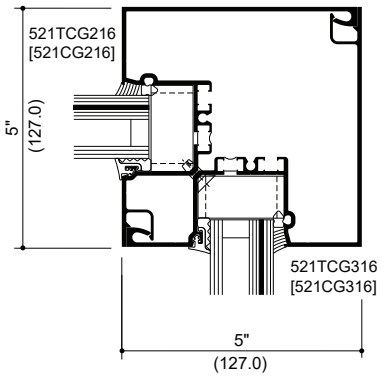
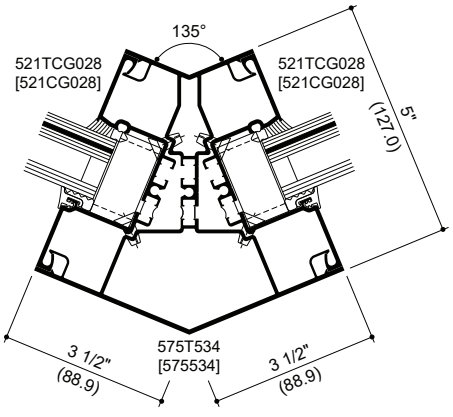
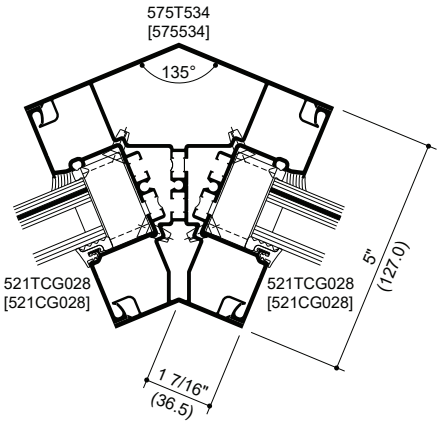
1-5/16" INFILL (FIELD GLAZED - WET GLAZED)

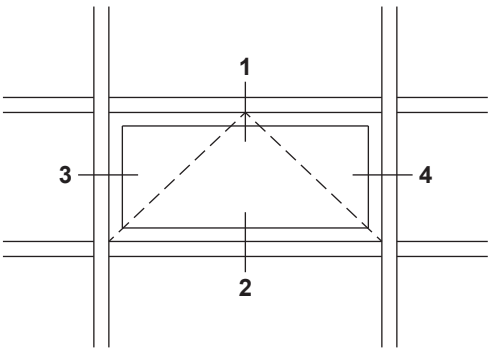


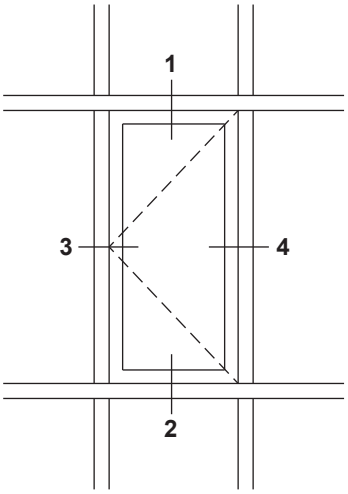


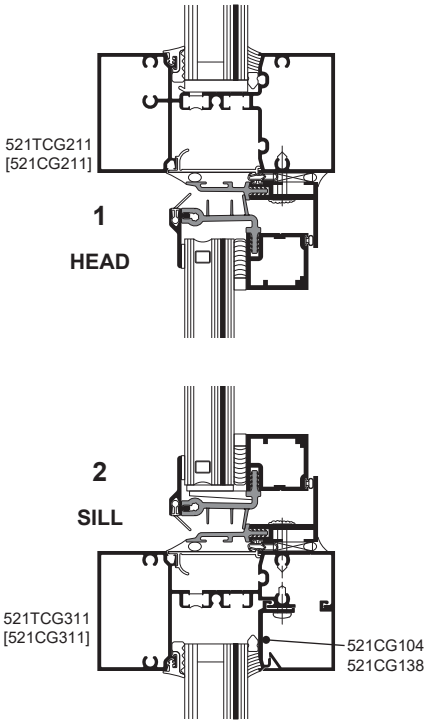


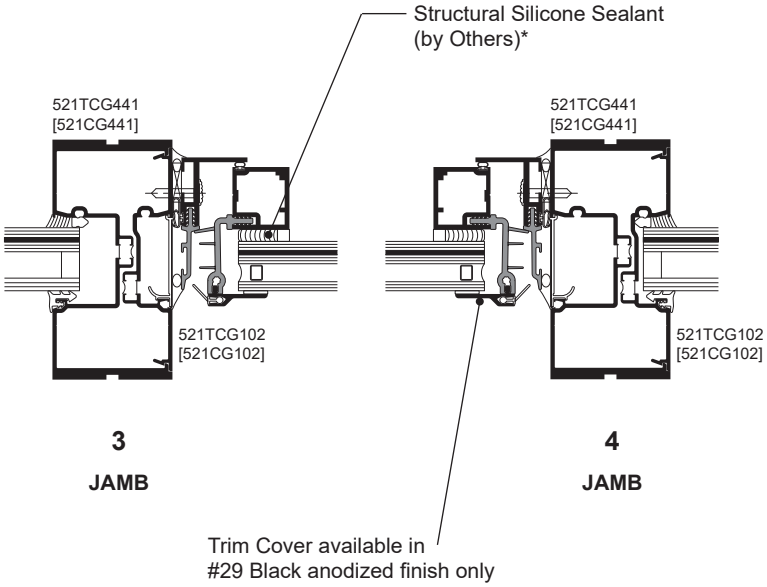


1-5/16" INFILL (FIELD GLAZED - WET GLAZED)









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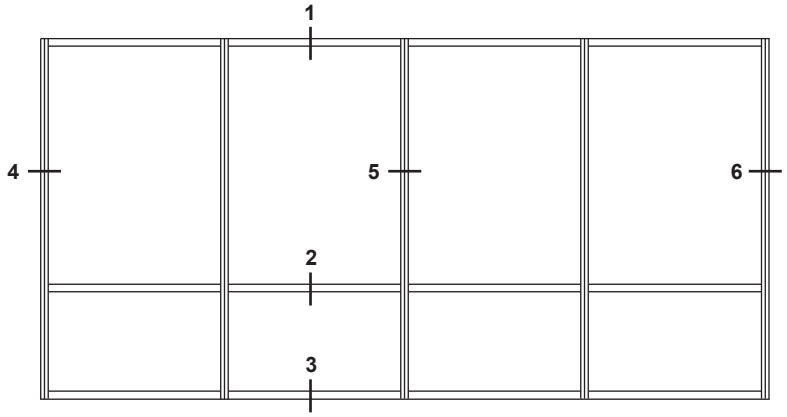
HURRICANE RESISTANT PRODUCT

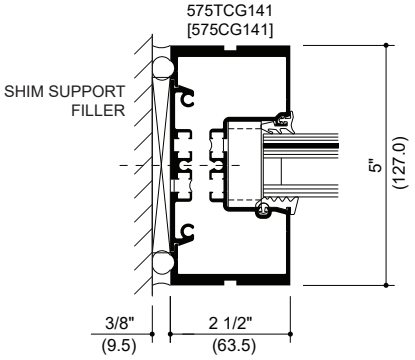
Additional information and CAD details are available at www.kawneer.com



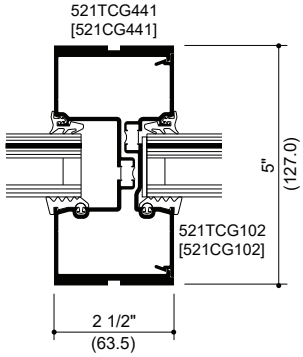
ELEVATION IS NUMBER KEYED TO DETAILS

IR 521 IsoLock®
NON-THERMAL

IR 521T Single IsoLock®
THERMAL BREAK (SHOWN)

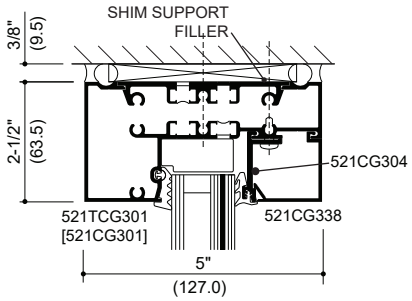


4
JAMB

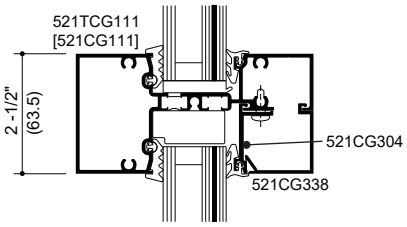


5
VERTICAL MULLION

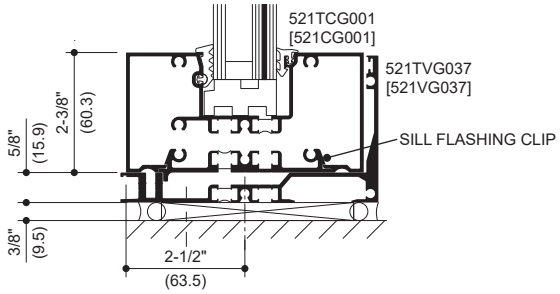
1-5/16" INFILL
(FIELD GLAZED - DRY GLAZED)



1
HEAD



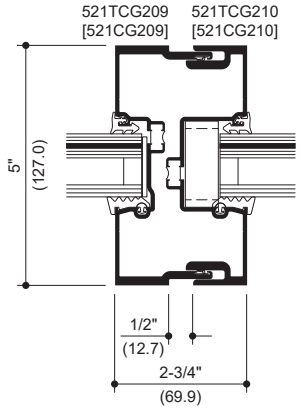
2
HORIZONTAL



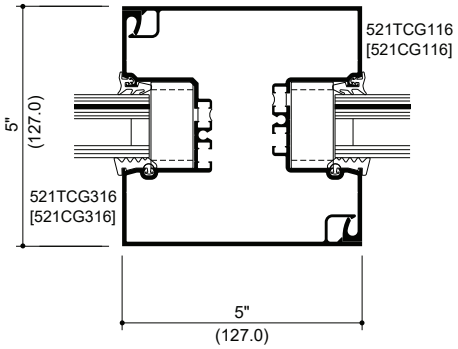
3
SILL

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

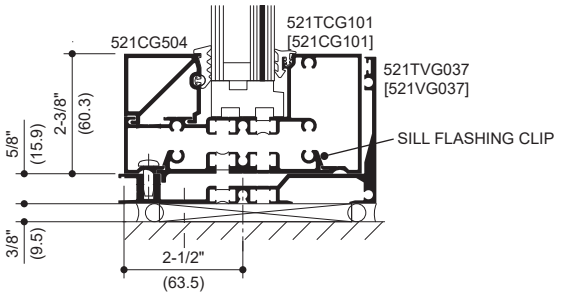
1-5/16" INFILL (FIELD GLAZED - DRY GLAZED)



EXPANSION MULLION



5" x 5" MULLION

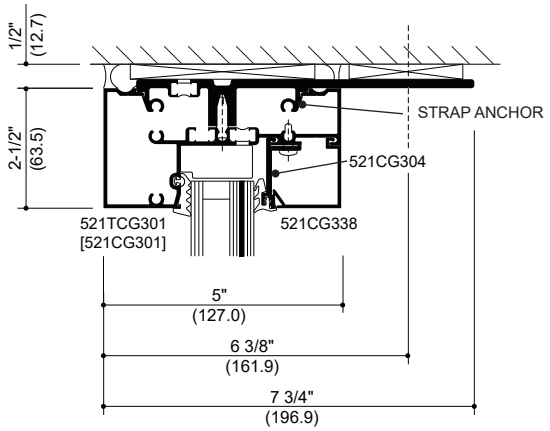


PINNED HORIZONTAL TO SILL FLASHING

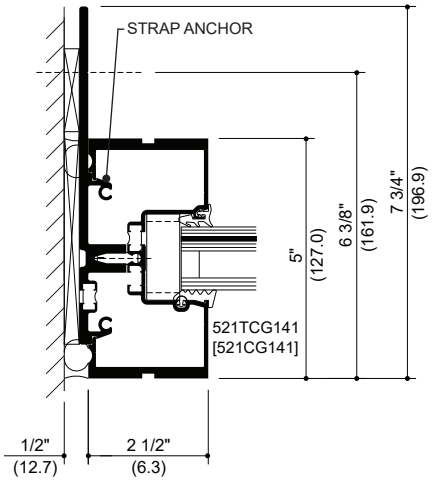
HURRICANE RESISTANT PRODUCT

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

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



HEAD



JAMB

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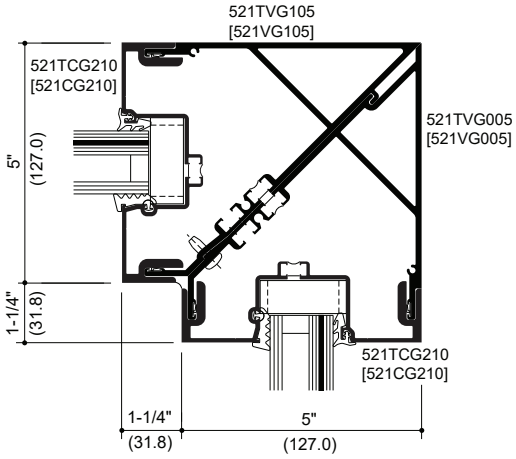
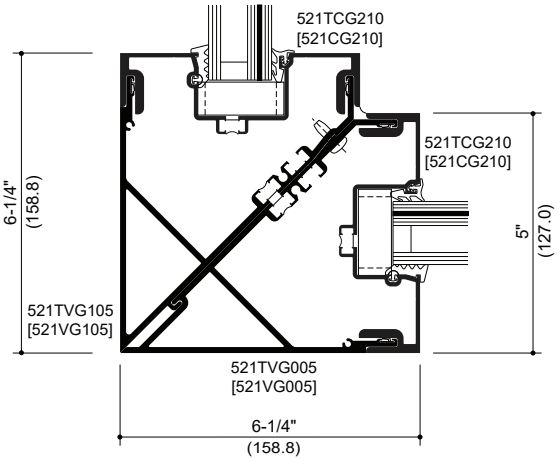
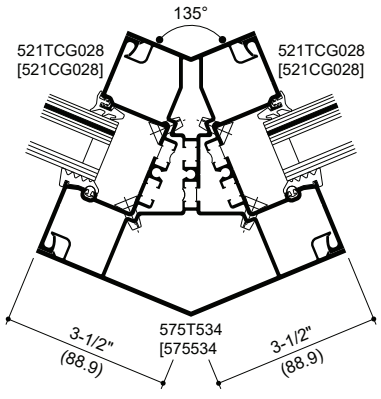
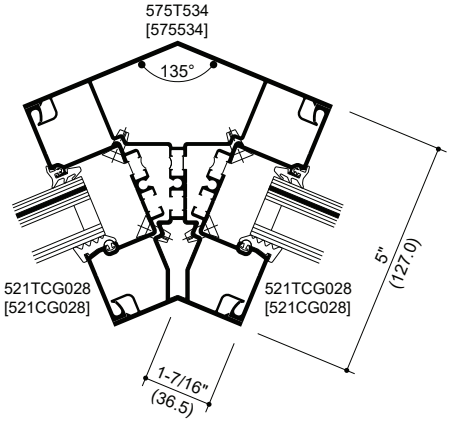
1-5/16" INFILL (FIELD GLAZED - DRY GLAZED)









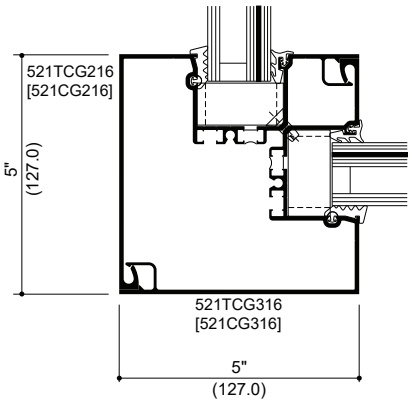
IR 521/521T Framing System

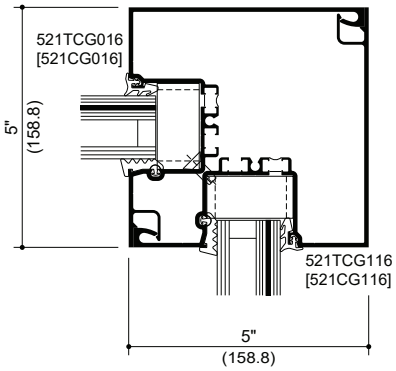
CORNER DETAILS (Inside Glazed)

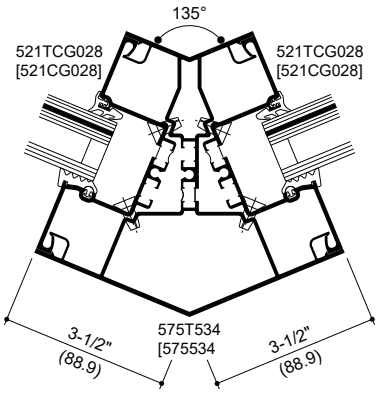
HURRICANE RESISTANT PRODUCT

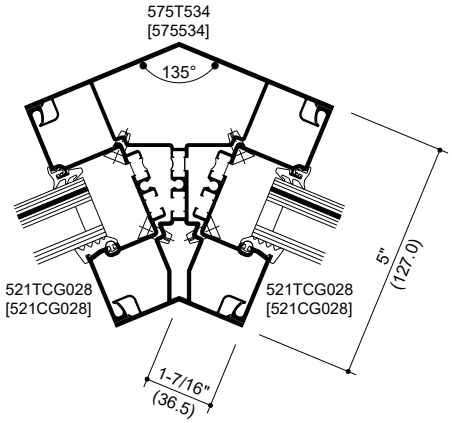
Additional information and CAD details are available at www.kawneer.com

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

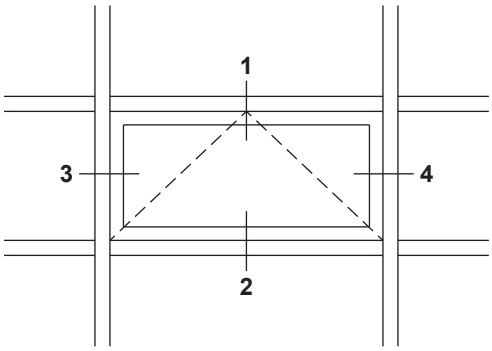


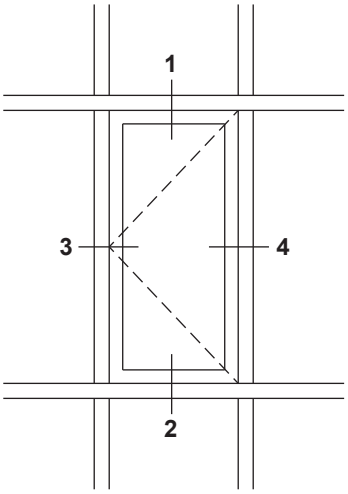


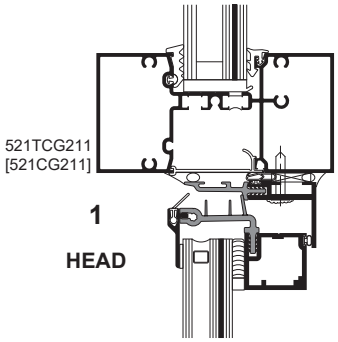


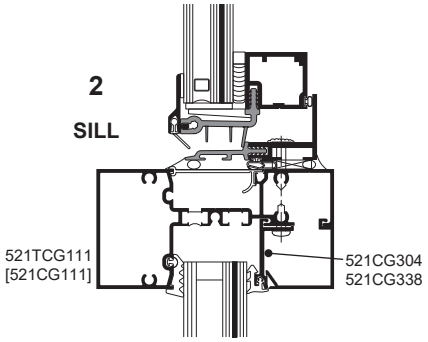


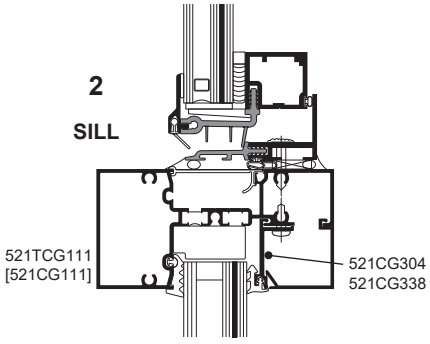
1-5/16" INFILL (FIELD GLAZED - DRY GLAZED)

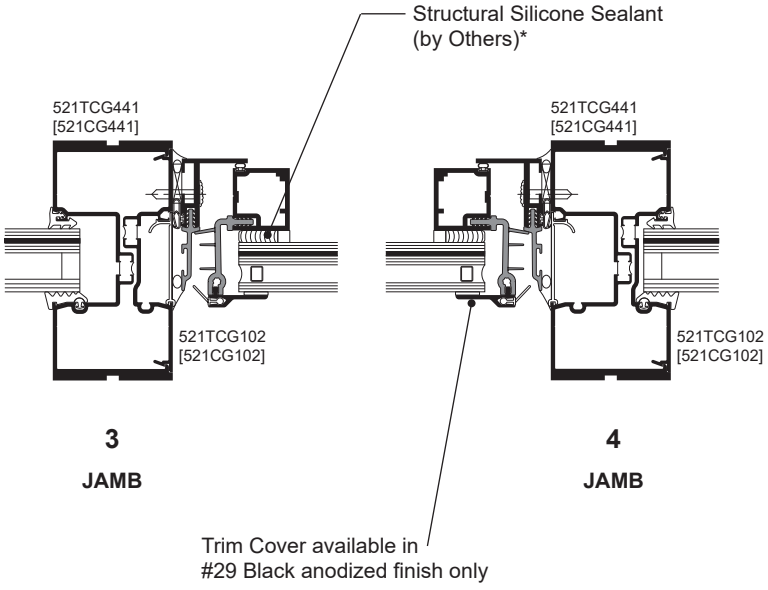












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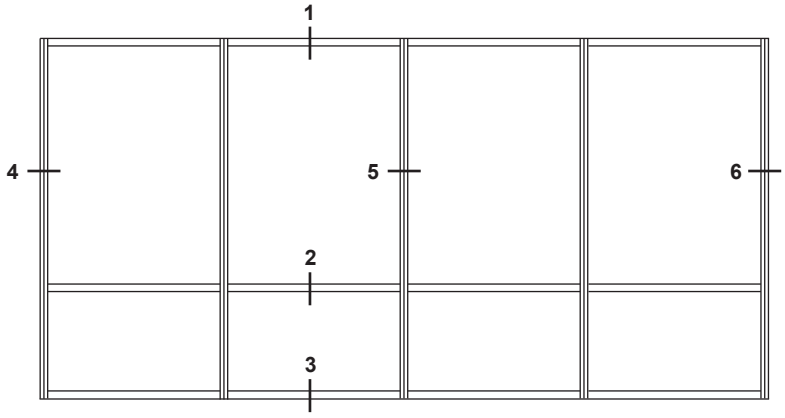
HURRICANE RESISTANT PRODUCT

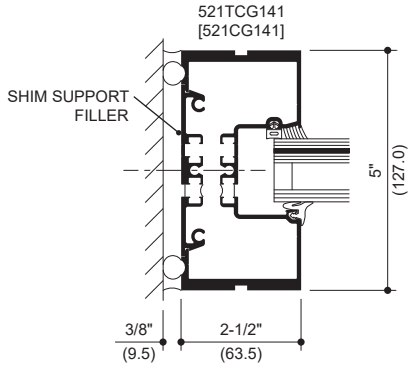
Additional information and CAD details are available at www.kawneer.com



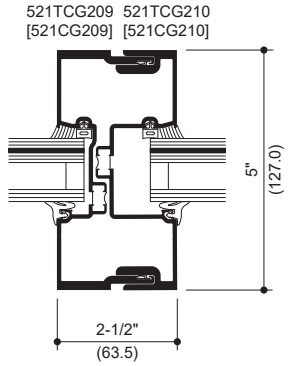
ELEVATION IS NUMBER KEYED TO DETAILS

IR 521 IsoLock®
NON-THERMAL

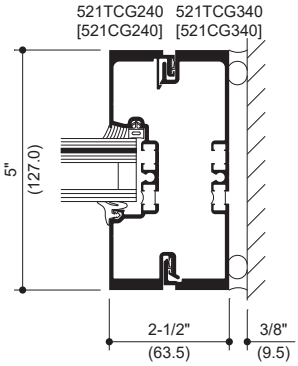
IR 521T Single IsoLock®
THERMAL BREAK (SHOWN)



4
FIRST BAY JAMB

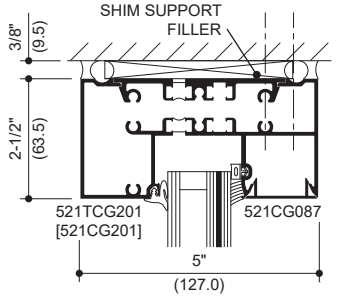


5
VERTICAL MULLION

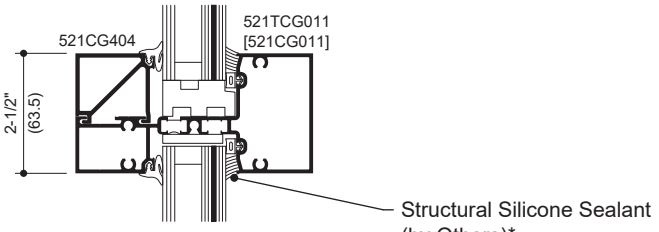


6
LAST BAY JAMB

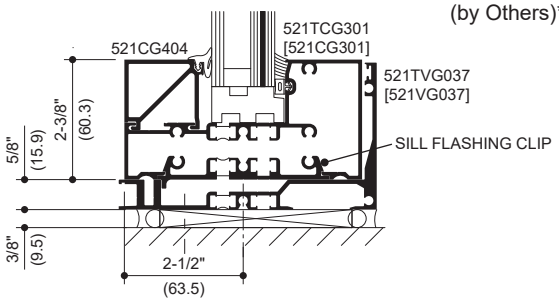
1
HEAD



2
HORIZONTAL



3
SILL



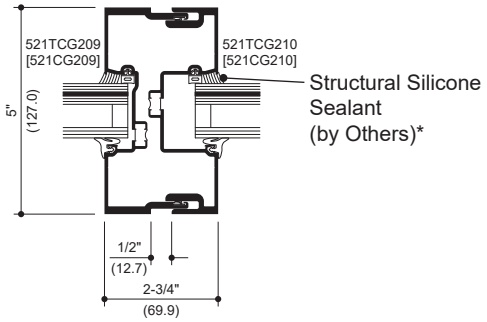
1-5/16" INFILL
(PRE GLAZED - WET GLAZED)

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

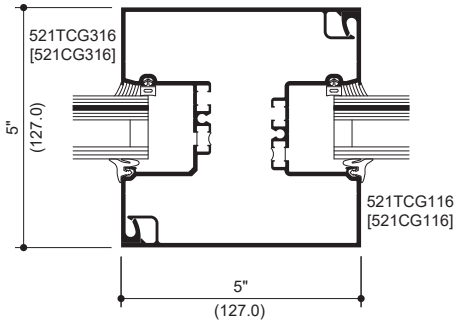
HURRICANE RESISTANT PRODUCT

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

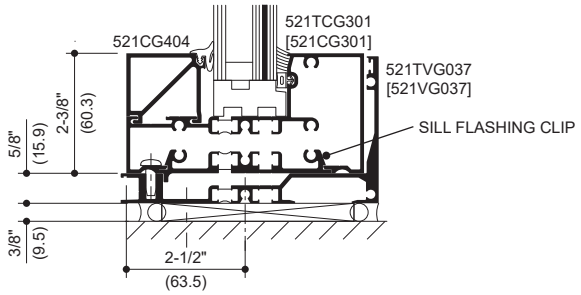
1-5/16" INFILL (PRE GLAZED - WET GLAZED)



EXPANSION MULLION



5" x 5" MULLION



PINNED HORIZONTAL TO SILL FLASHING

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

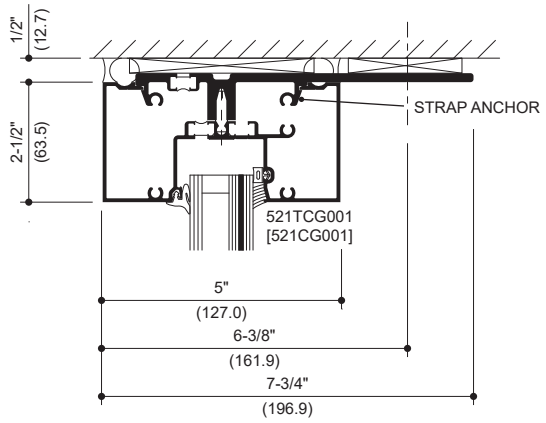
IR 521/521T Framing System

STRAP ANCHOR DETAILS (Outside Glazed)

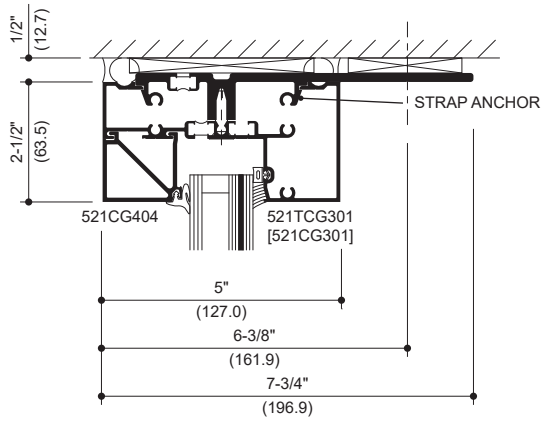
HURRICANE RESISTANT PRODUCT

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

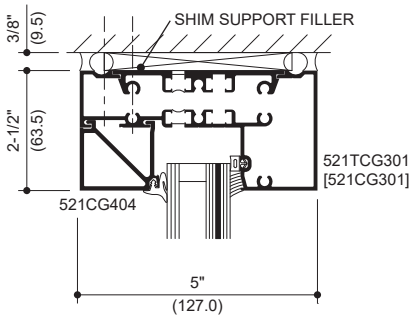
1-5/16" INFILL (PRE GLAZED - WET GLAZED)



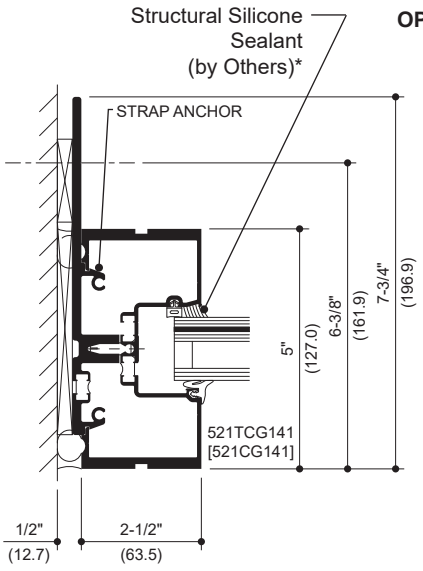
HEAD



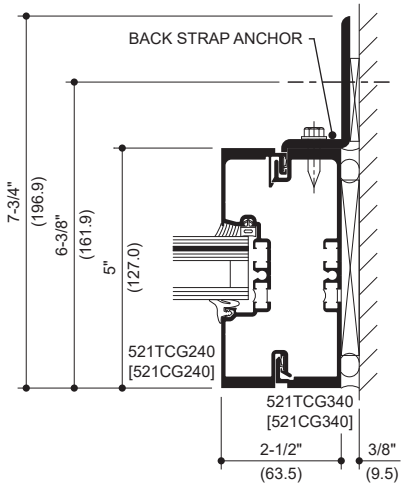
OPTIONAL HEAD WITH STOP



OPTIONAL HEAD WITH STOP



FIRST BAY JAMB



LAST BAY JAMB

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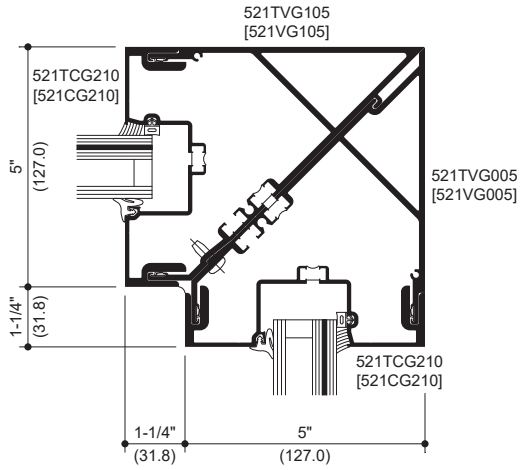
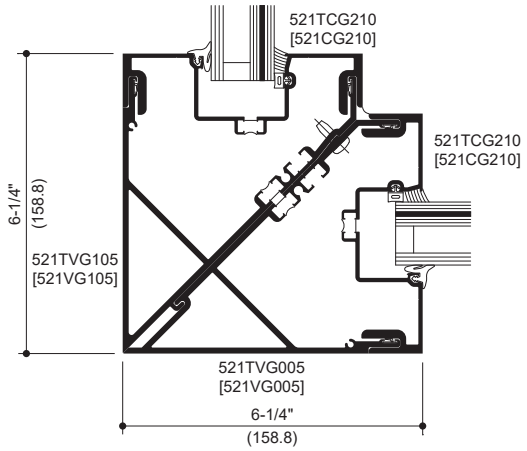
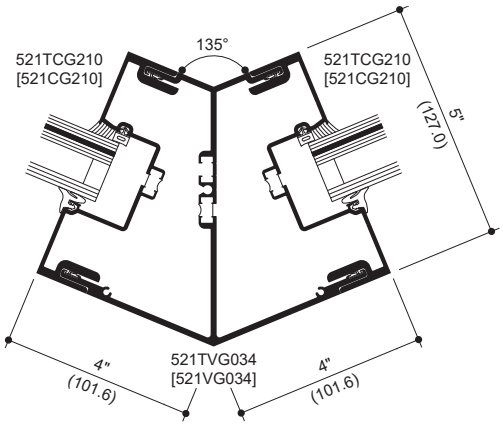
HURRICANE RESISTANT PRODUCT

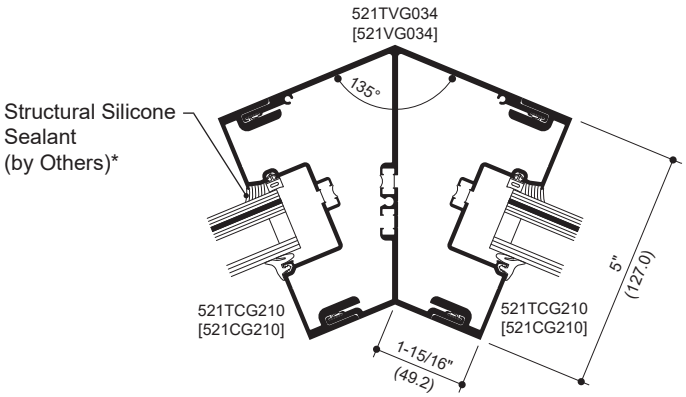
Additional information and CAD details are available at www.kawneer.com

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









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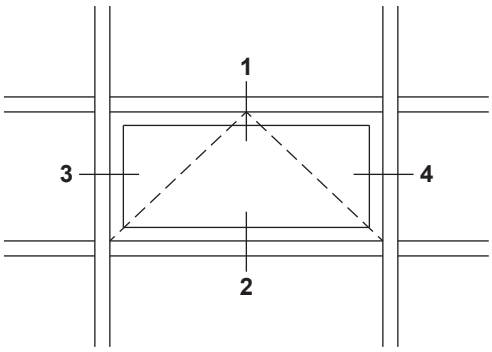
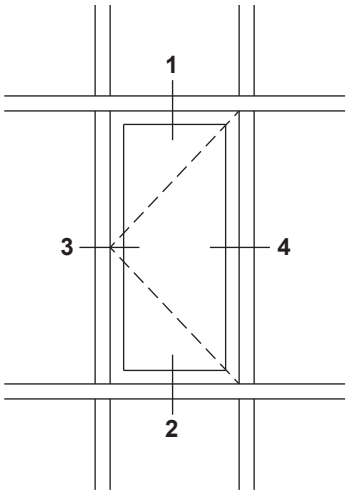
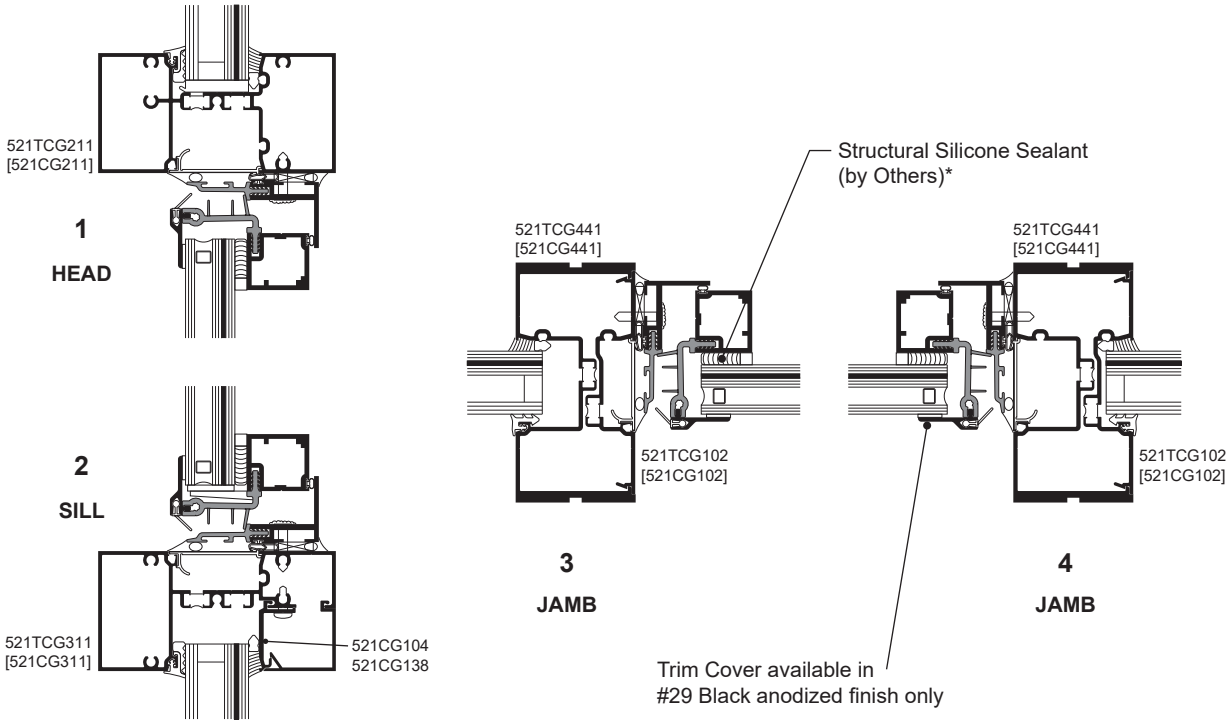
1-5/16" INFILL (PRE GLAZED - WET GLAZED)







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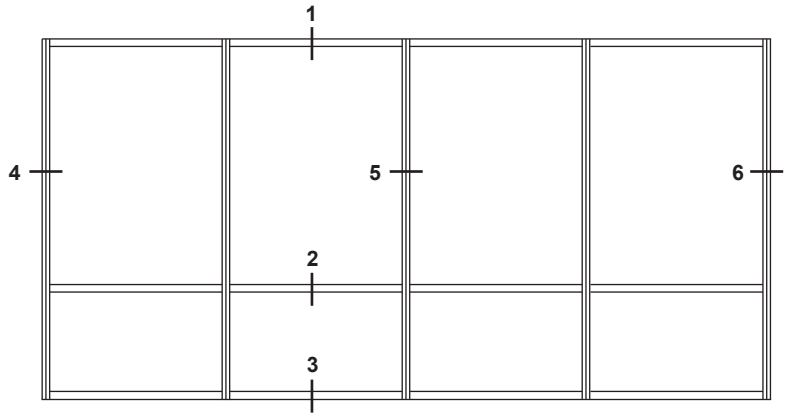
HURRICANE RESISTANT PRODUCT

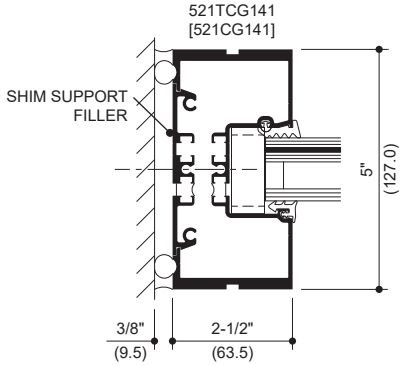
Additional information and CAD details are available at www.kawneer.com



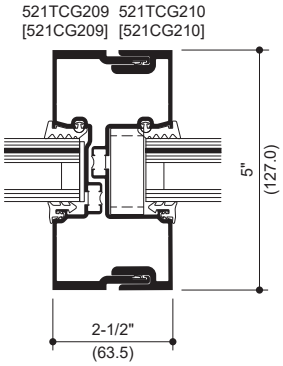
ELEVATION IS NUMBER KEYED TO DETAILS

IR 521 IsoLock®
NON-THERMAL

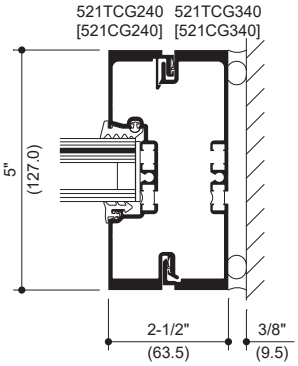
IR 521T Single IsoLock®
THERMAL BREAK (SHOWN)



4
FIRST BAY JAMB

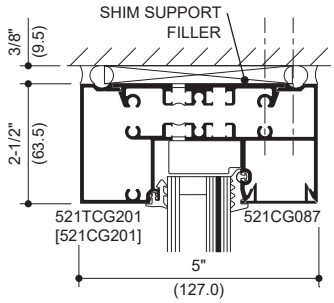


5
VERTICAL MULLION



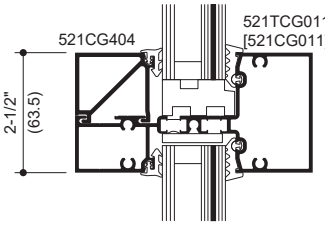
6
LAST BAY JAMB

1
HEAD

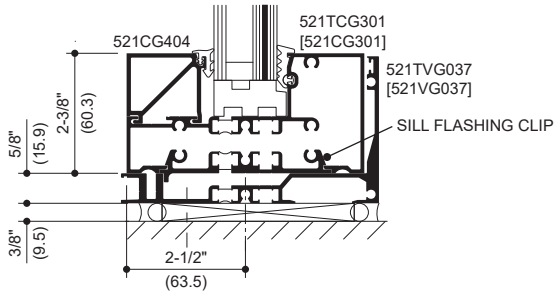


1-5/16" INFILL
(PRE GLAZED - DRY GLAZED)

2
HORIZONTAL

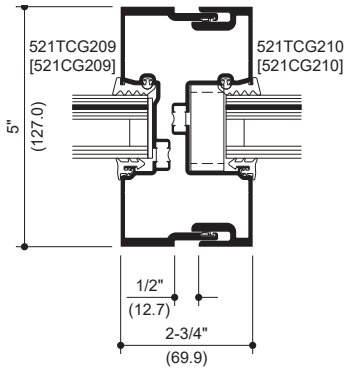


3
SILL

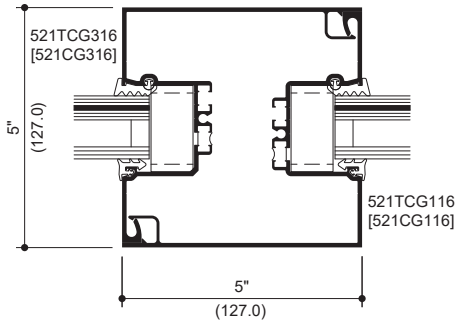


Additional information and CAD details are available at www.kawneer.com

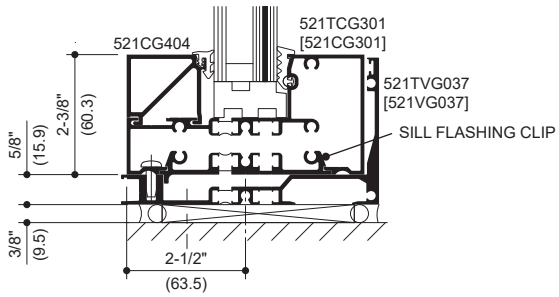
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



EXPANSION MULLION



5" x 5" MULLION

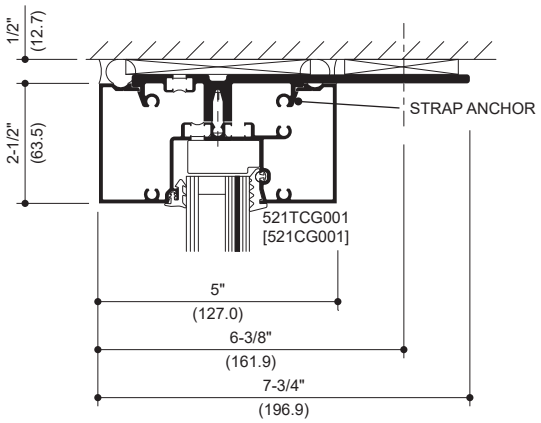


PINNED HORIZONTAL TO SILL FLASHING

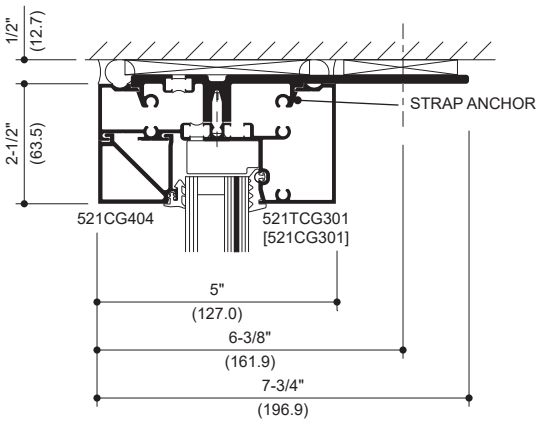
HURRICANE RESISTANT PRODUCT

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

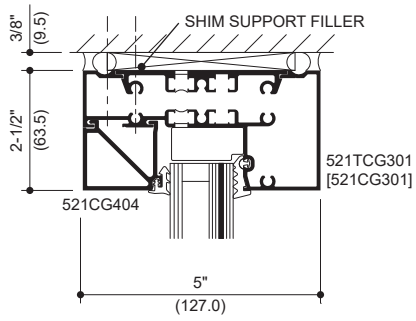
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



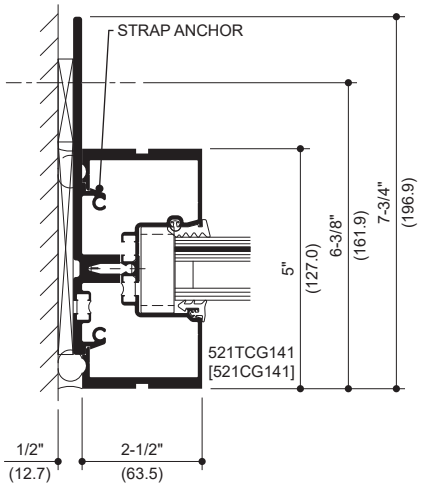
HEAD



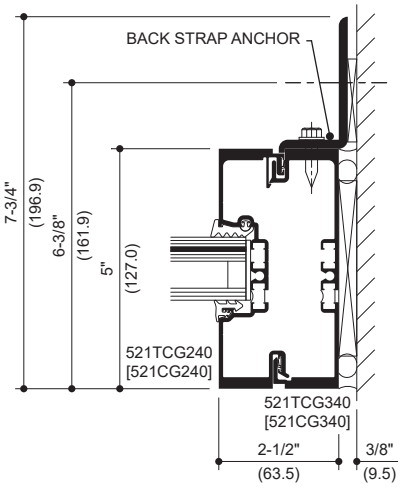
OPTIONAL HEAD WITH STOP



OPTIONAL HEAD WITH STOP



FIRST BAY JAMB

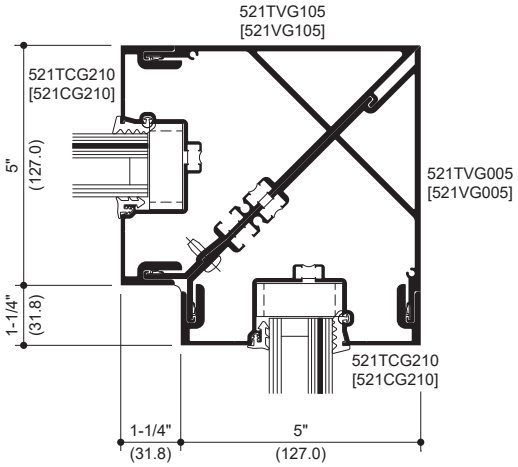


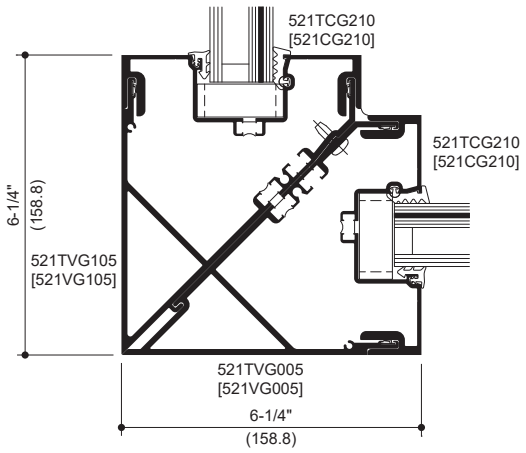
LAST BAY JAMB

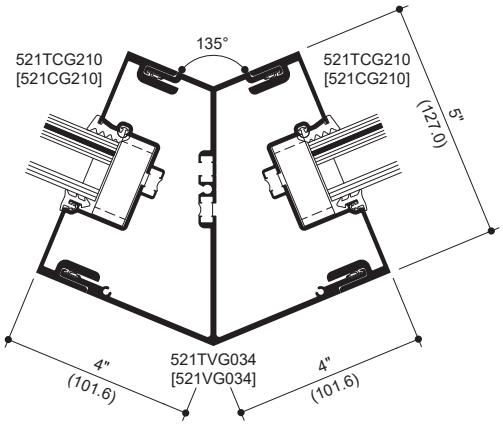
HURRICANE RESISTANT PRODUCT

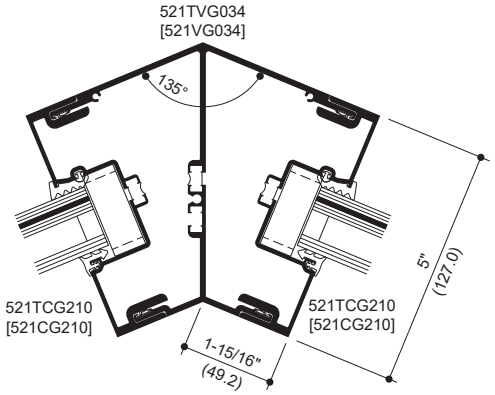
Additional information and CAD details are available at www.kawneer.com

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

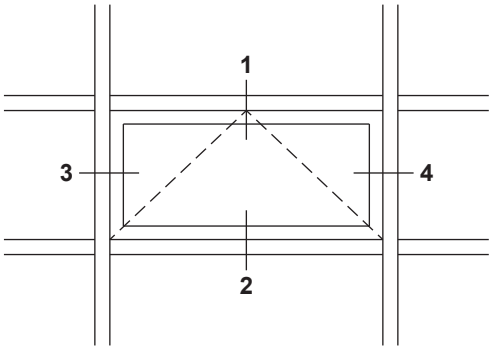


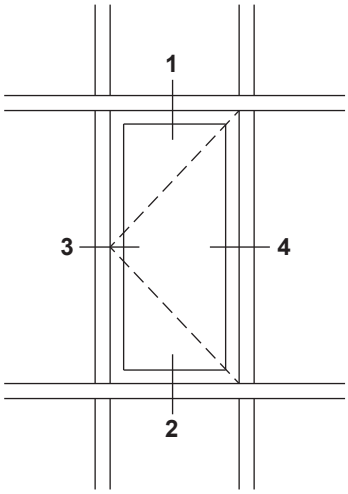


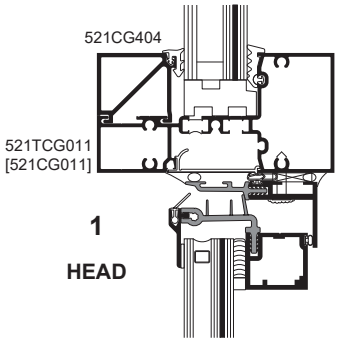


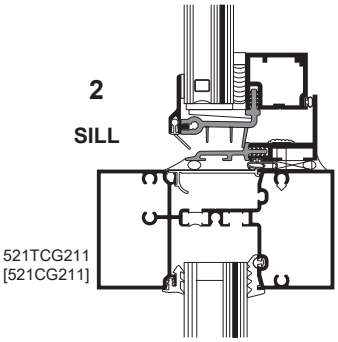


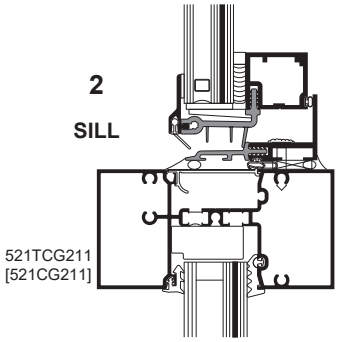
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)

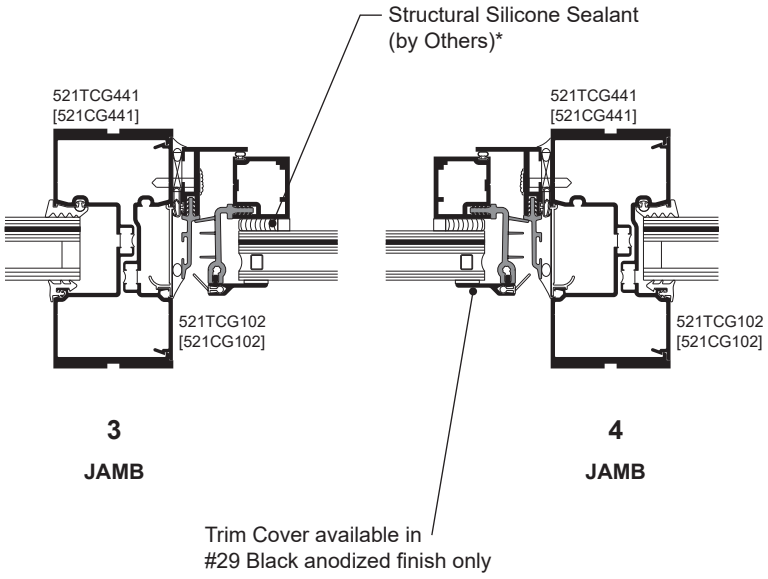












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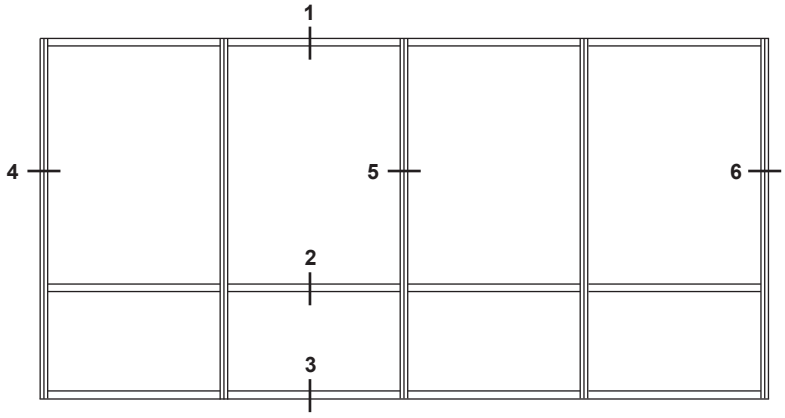
HURRICANE RESISTANT PRODUCT

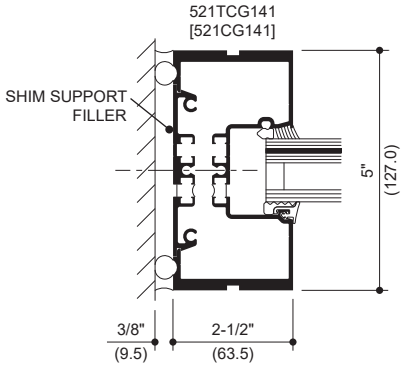
Additional information and CAD details are available at www.kawneer.com



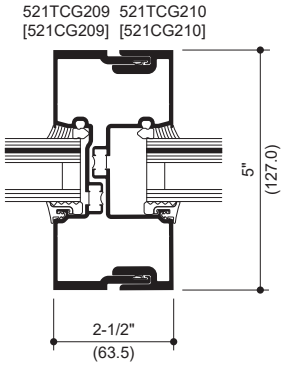
ELEVATION IS NUMBER KEYED TO DETAILS

IR 521 IsoLock®
NON-THERMAL

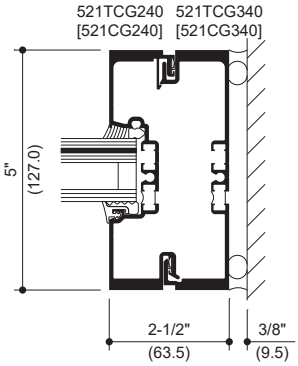
IR 521T Single IsoLock®
THERMAL BREAK (SHOWN)



4
FIRST BAY JAMB

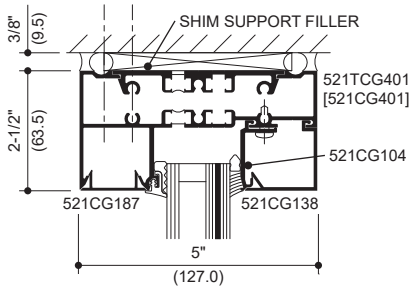


5
VERTICAL MULLION



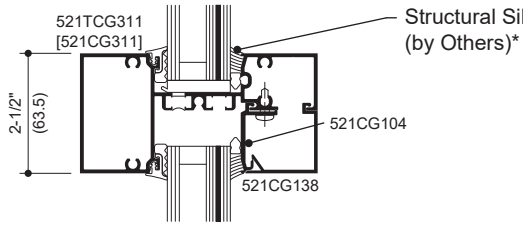
6
LAST BAY JAMB

1
HEAD

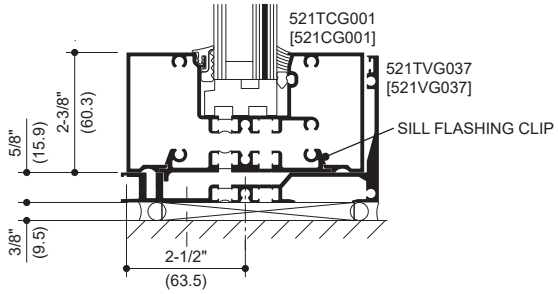


1-5/16" INFILL
(PRE GLAZED - WET GLAZED)

2
HORIZONTAL



3
SILL



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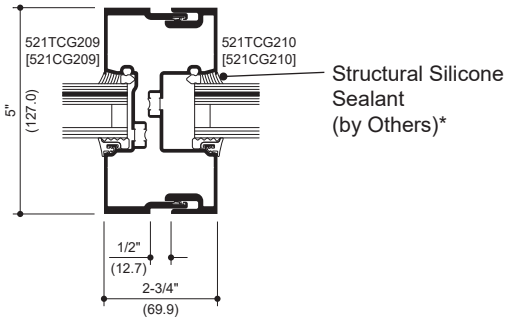
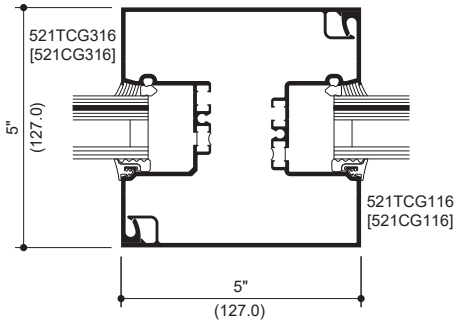
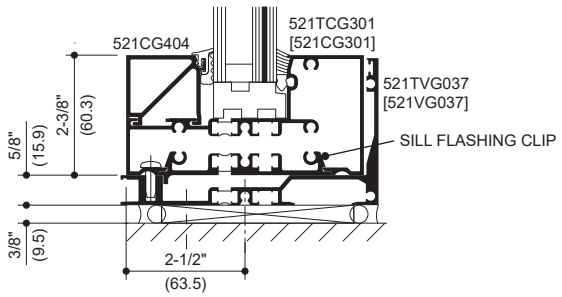
1-5/16" INFILL (PRE GLAZED - WET GLAZED)



EXPANSION MULLION



5" x 5" MULLION



PINNED HORIZONTAL TO SILL FLASHING

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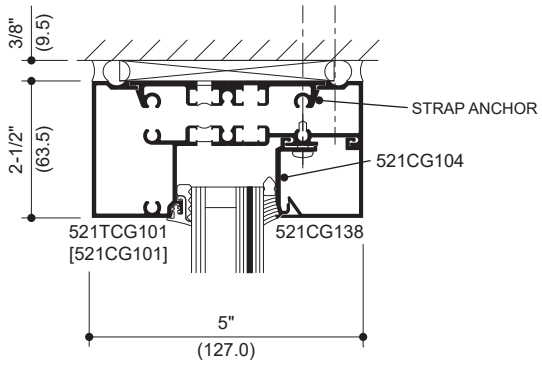
IR 521/521T Framing System

STRAP ANCHOR DETAILS (Inside Glazed)

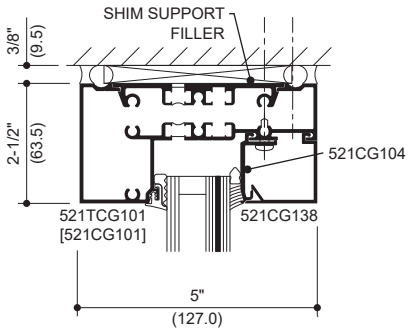
HURRICANE RESISTANT PRODUCT

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

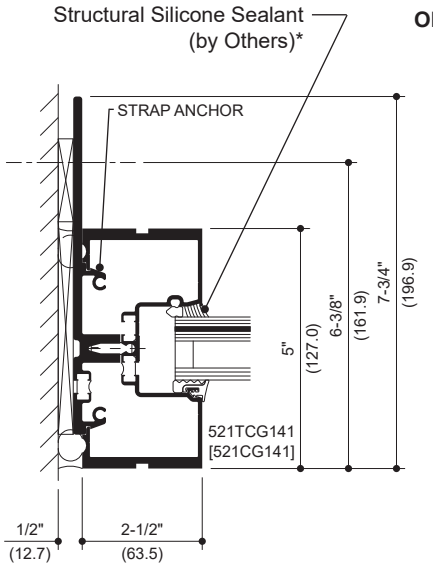
1-5/16" INFILL (PRE GLAZED - WET GLAZED)



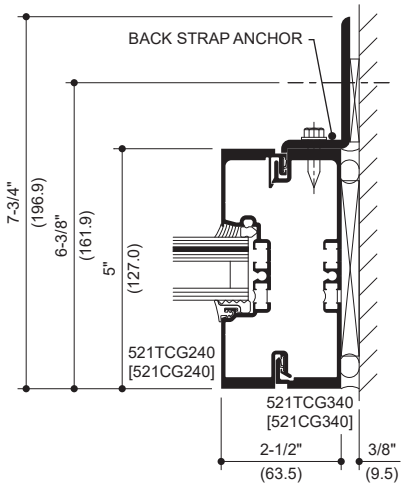
HEAD



OPTIONAL HEAD WITH STOP



FIRST BAY JAMB



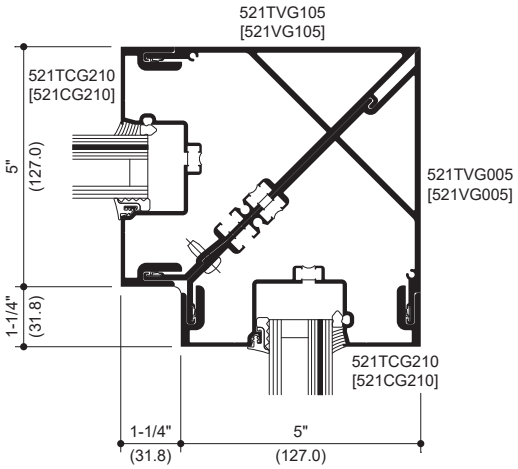
LAST BAY JAMB

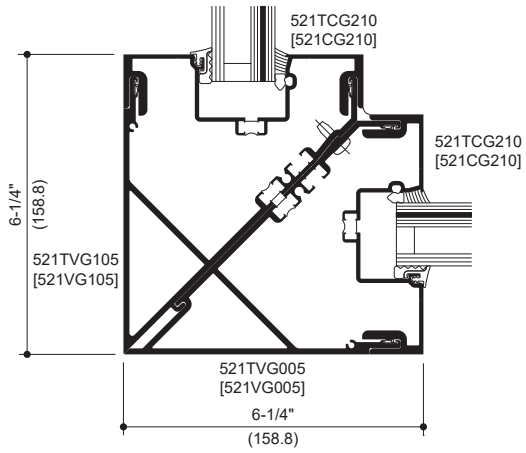
*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

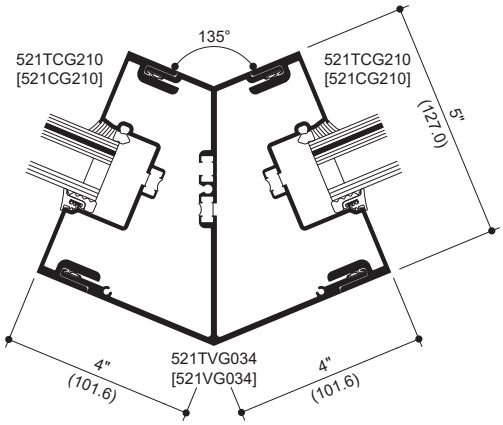
HURRICANE RESISTANT PRODUCT

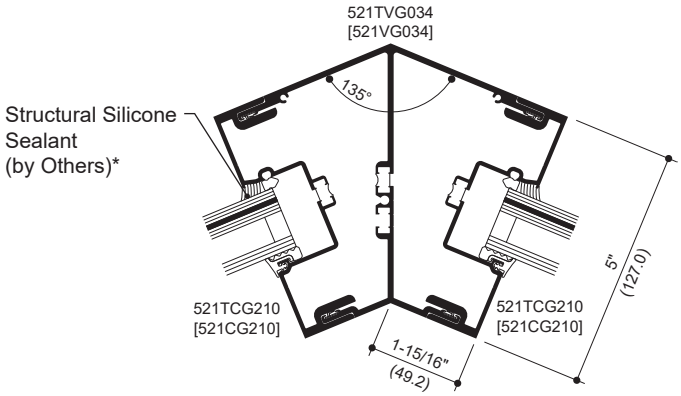
Additional information and CAD details are available at www.kawneer.com

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



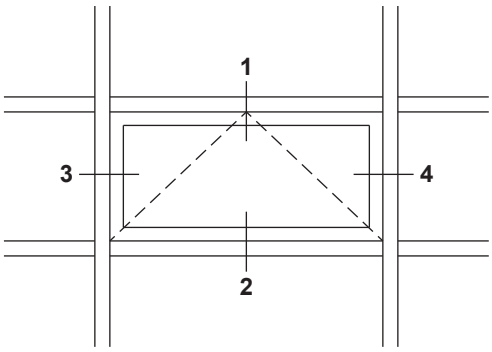


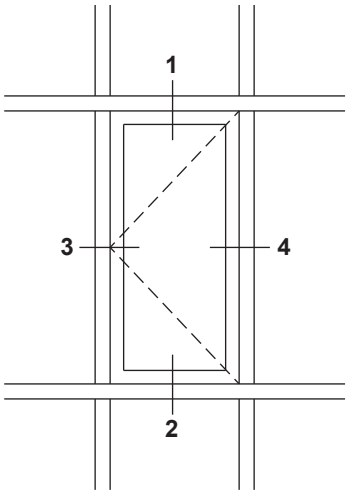


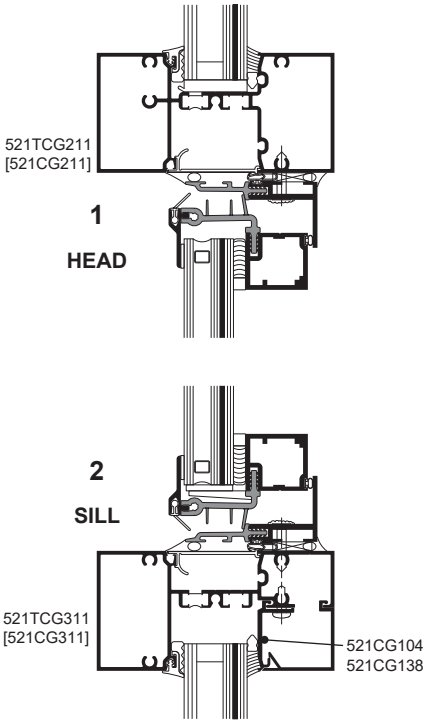


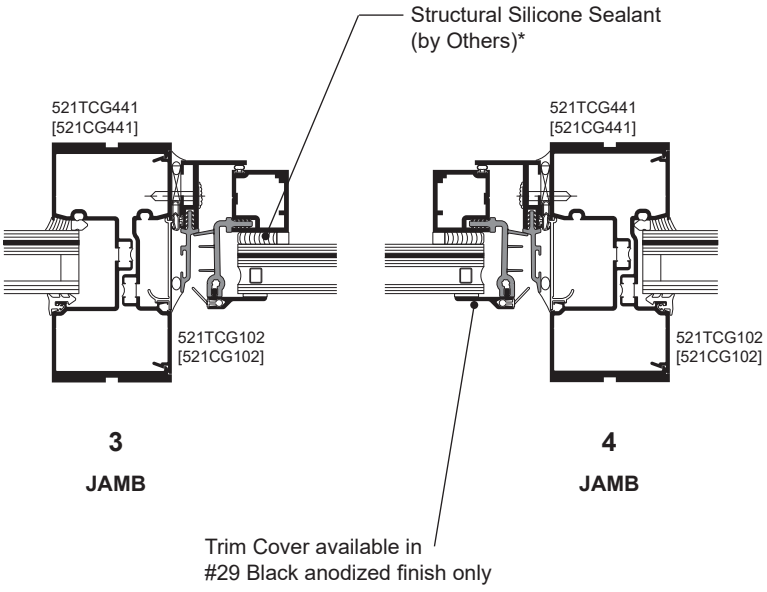
*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

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



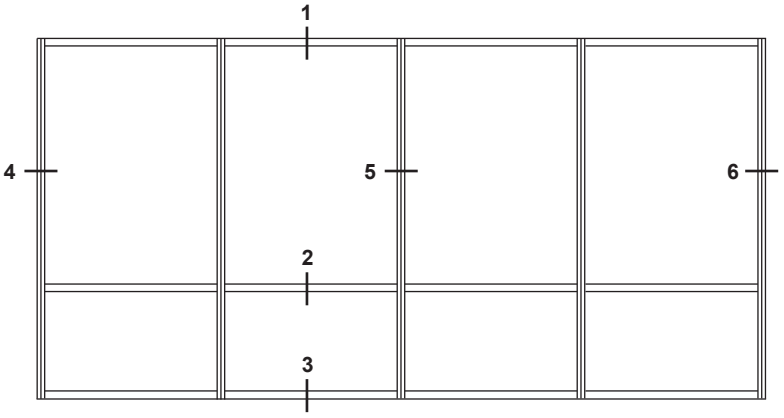






*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone, Structural Glazing Tape, and Insulating Glass Unit Manufacturers.

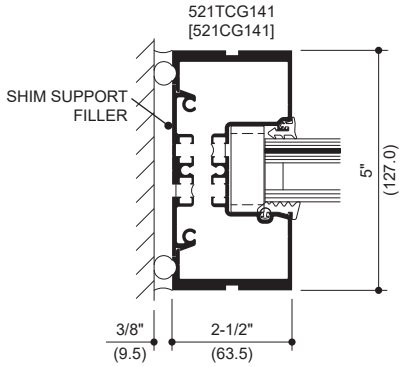
Additional information and CAD details are available at www.kawneer.com



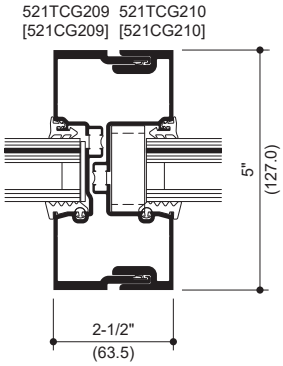
ELEVATION IS NUMBER KEYED TO DETAILS

IR 521 IsoLock®
NON-THERMAL

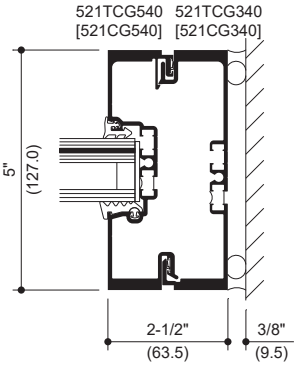
IR 521T Single IsoLock®
THERMAL BREAK (SHOWN)



4
FIRST BAY JAMB

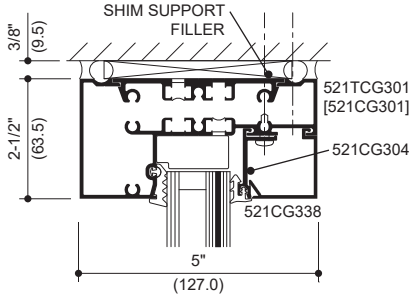


5
VERTICAL MULLION



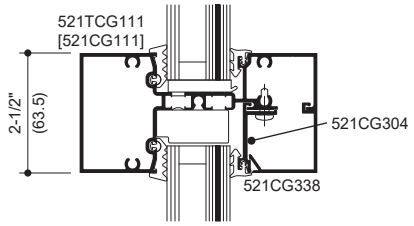
6
LAST BAY JAMB

1
HEAD

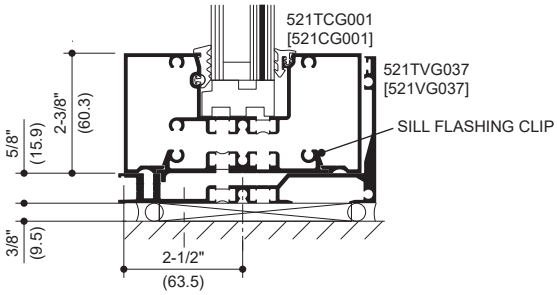


1-5/16" INFILL
(PRE GLAZED - DRY GLAZED)

2
HORIZONTAL



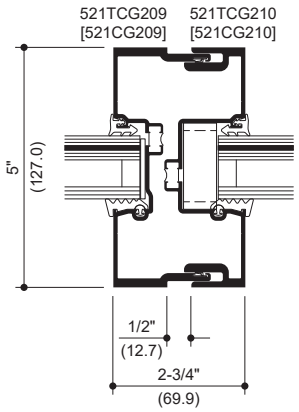
3
SILL



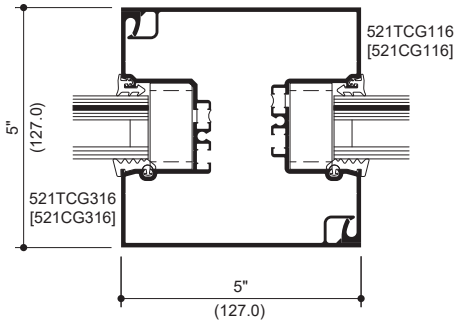
HURRICANE RESISTANT PRODUCT

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

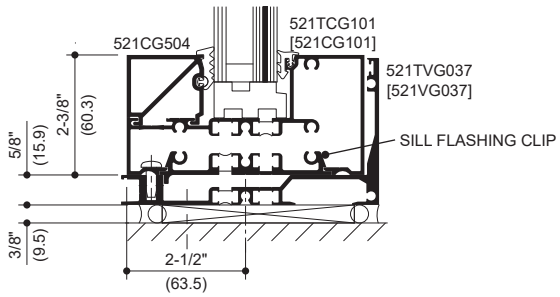
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



EXPANSION MULLION



5" x 5" MULLION

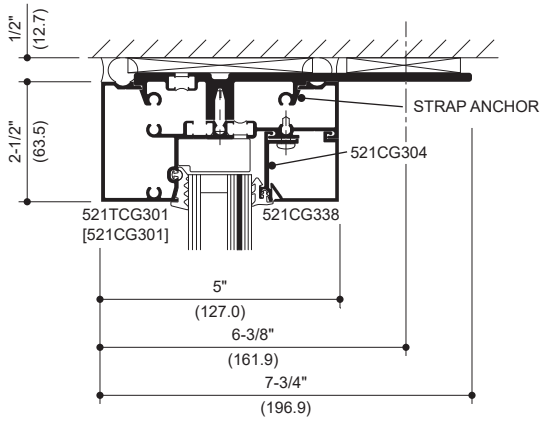


PINNED HORIZONTAL TO SILL FLASHING

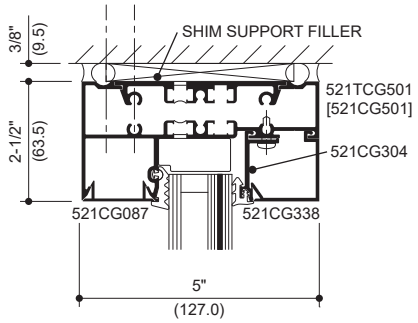
HURRICANE RESISTANT PRODUCT

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

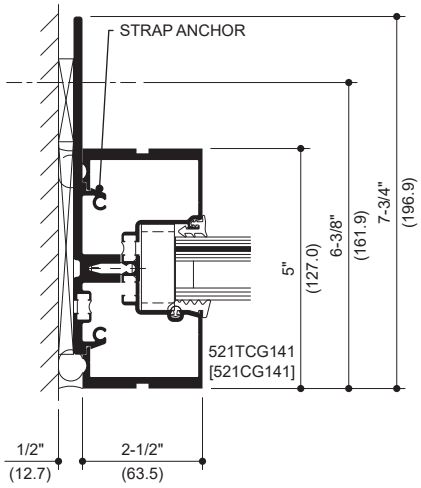
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



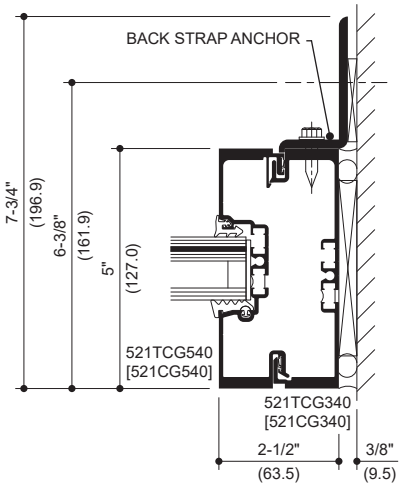
HEAD



OPTIONAL HEAD WITH STOP



FIRST BAY JAMB



LAST BAY JAMB

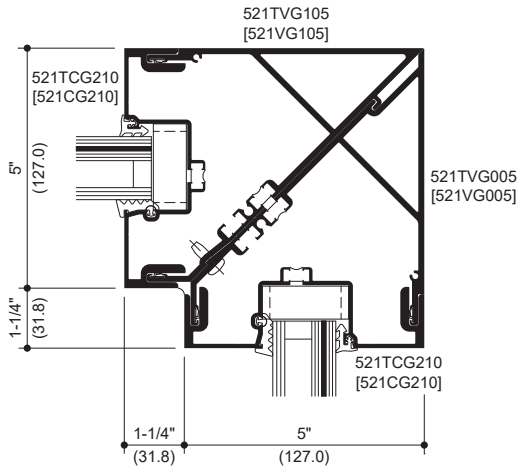
IR 521/521T Framing System

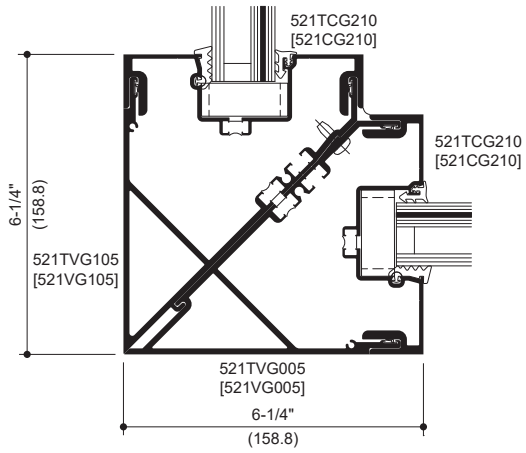
CORNER DETAILS (Inside Glazed)

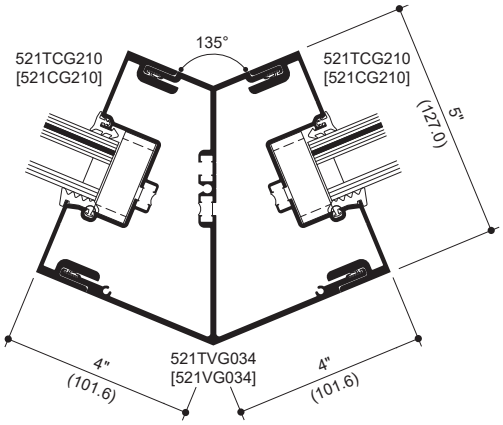
HURRICANE RESISTANT PRODUCT

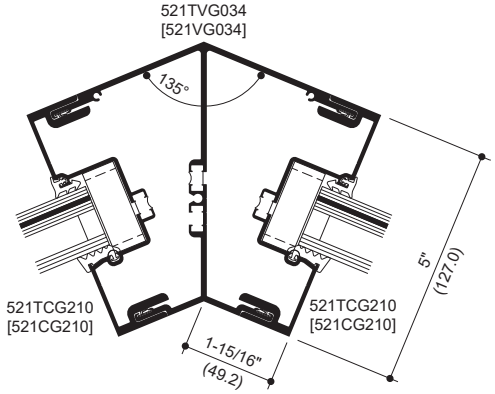
Additional information and CAD details are available at www.kawneer.com

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

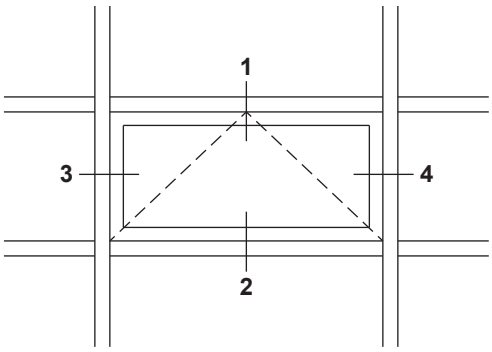


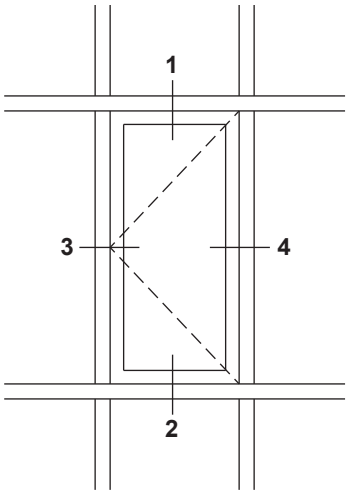


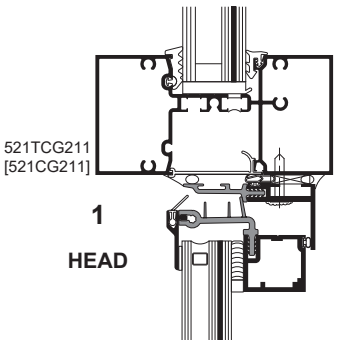


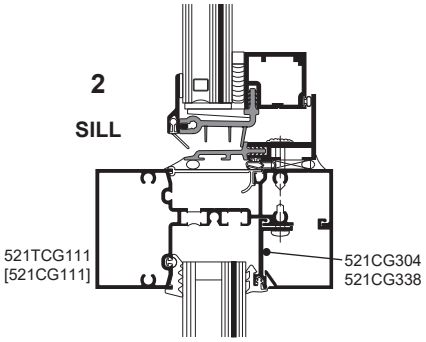


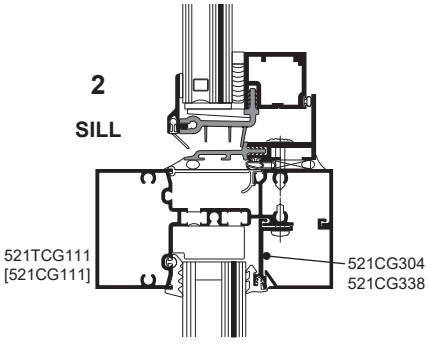
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)

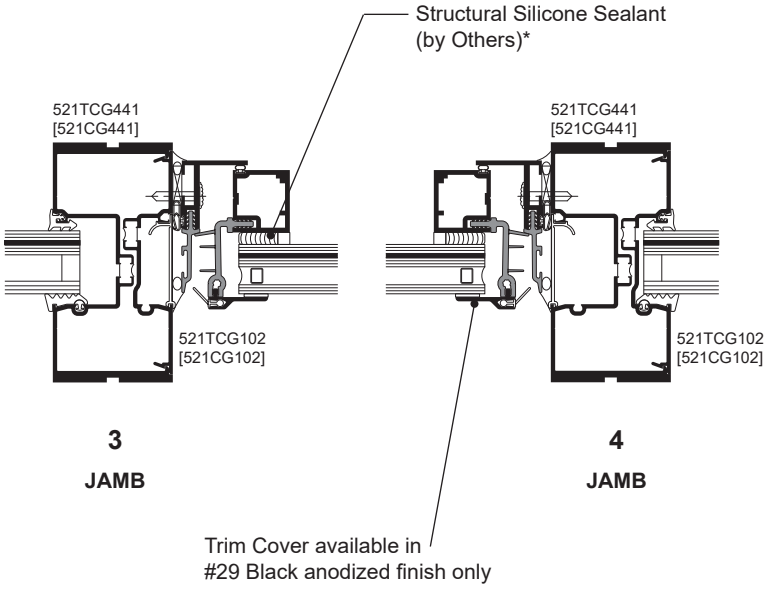










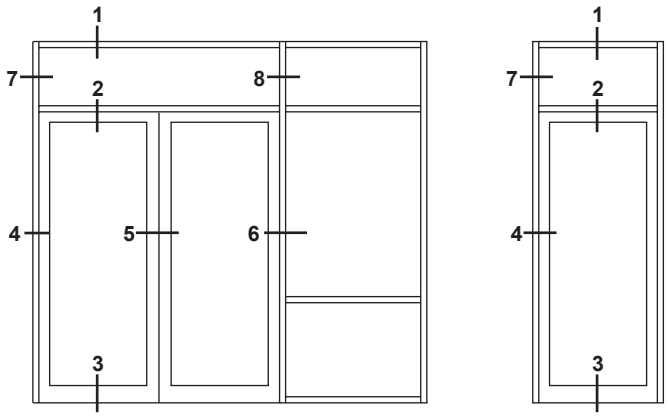


*** INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

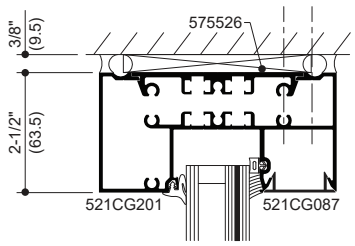
HURRICANE RESISTANT PRODUCT

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

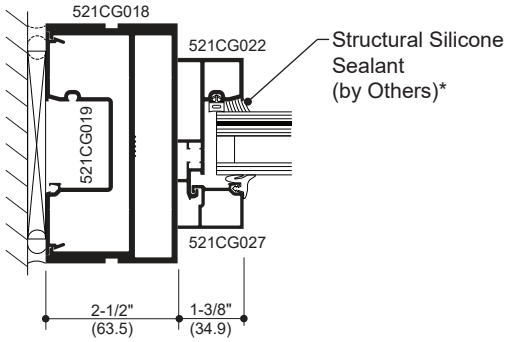
IR 521 FRAMING INCORPORATING KAWNEER 350 IR DOORS.
SEE 350/500 IR ENTRANCES FOR ADDITIONAL DOOR AND ENTRANCE FRAMING OPTIONS.



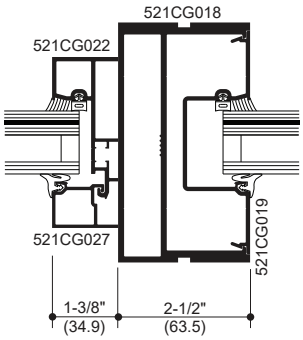
ELEVATION IS NUMBER KEYED TO DETAILS



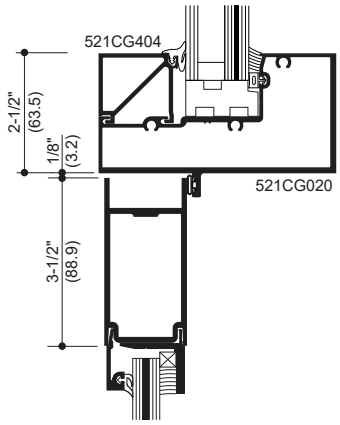
1
TRANSOM HEAD



7
DOOR JAMB
AT TRANSOM

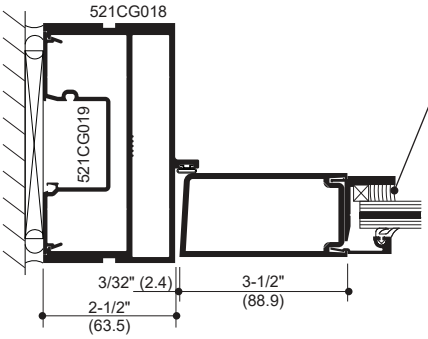


8
DOOR JAMB
AT TRANSOM

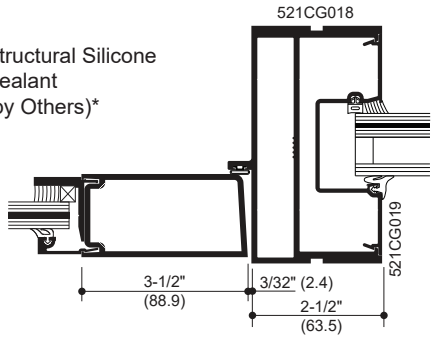


2
DOOR WITH TRANSOM

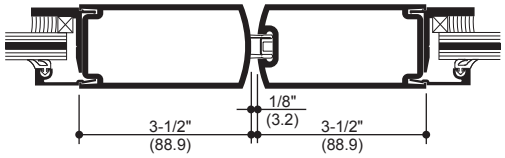
Transom for C.O.C. also available



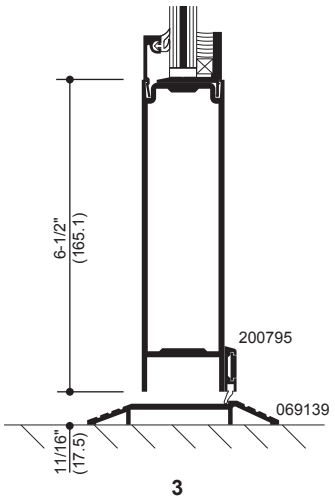
4
DOOR JAMB



6
DOOR JAMB



5
PAIR OF DOORS



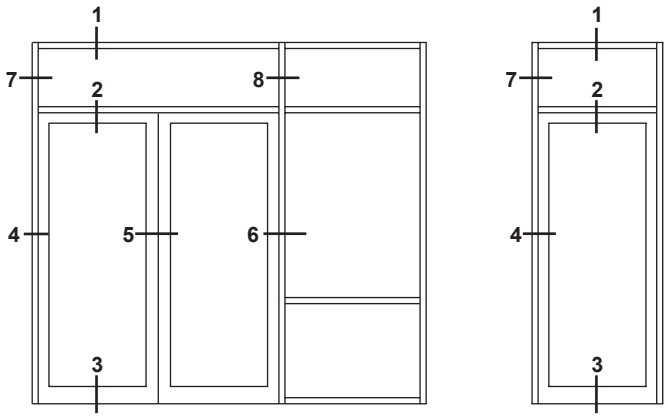
3
THRESHOLD

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

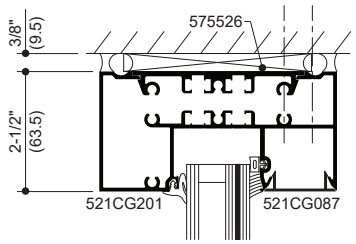
HURRICANE RESISTANT PRODUCT

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

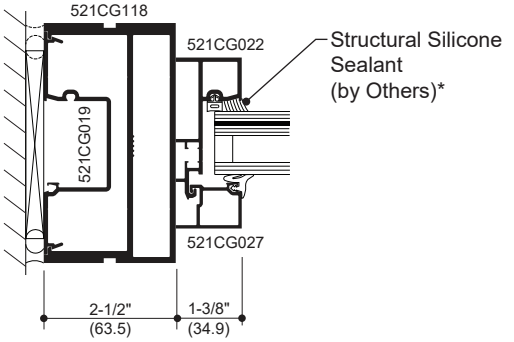
IR 521 FRAMING INCORPORATING KAWNEER 350 HEAVY WALL™ IR ENTRANCES.
SEE 350/500 IR HEAVY WALL™ ENTRANCES FOR ADDITIONAL DOOR AND ENTRANCE FRAMING OPTIONS.



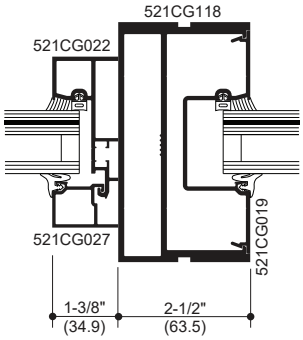
ELEVATION IS NUMBER KEYED TO DETAILS



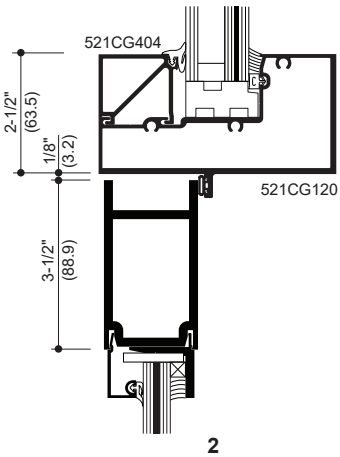
1
TRANSOM HEAD



7
DOOR JAMB
AT TRANSOM

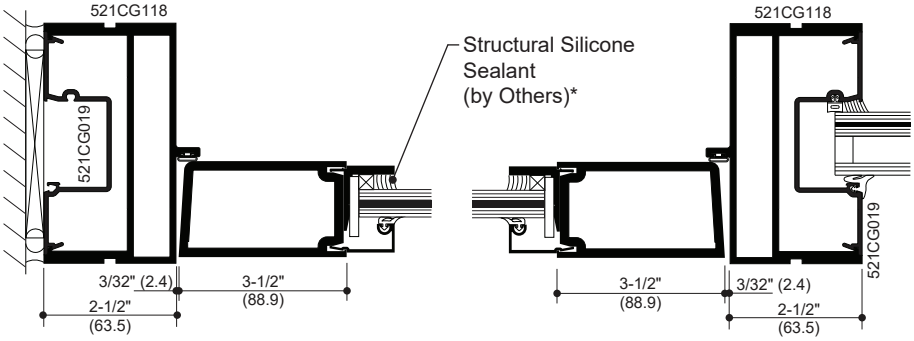


8
DOOR JAMB
AT TRANSOM



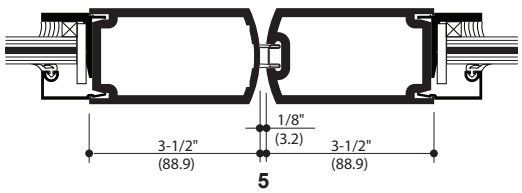
2
DOOR WITH TRANSOM

Transom for C.O.C. also available

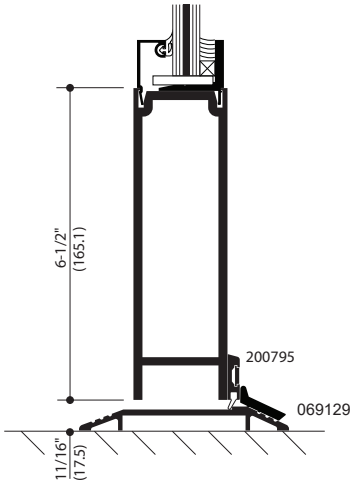


4
DOOR JAMB

6
DOOR JAMB



5
PAIR OF DOORS



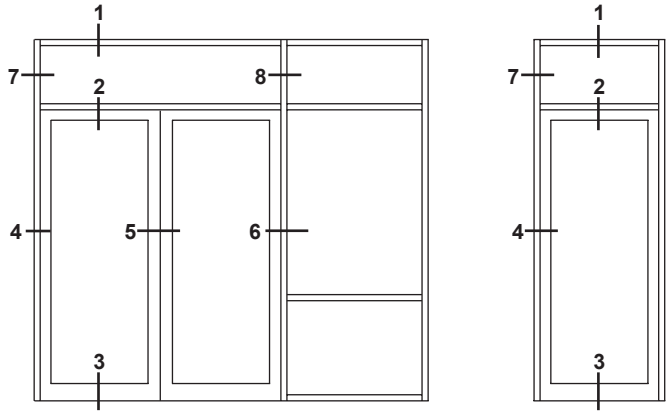
3
THRESHOLD

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

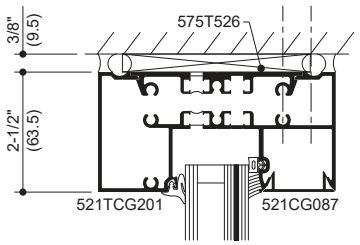
HURRICANE RESISTANT PRODUCT

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

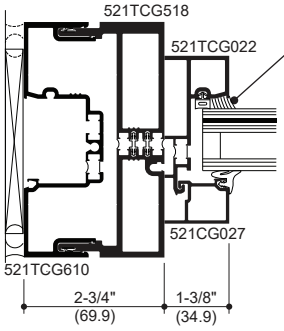
IR 521T FRAMING INCORPORATING KAWNEER 350T INSULPOUR® DOORS.
SEE 250T/350T/500T INSULPOUR® ENTRANCES FOR ADDITIONAL DOOR AND ENTRANCE FRAMING OPTIONS.



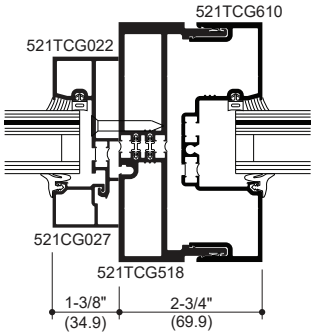
ELEVATION IS NUMBER KEYED TO DETAILS



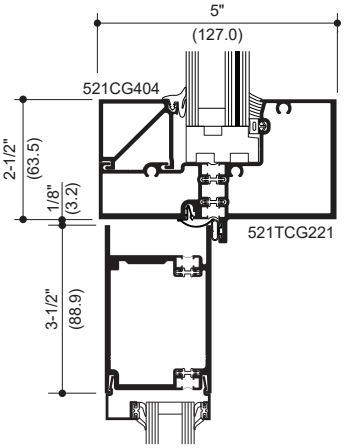
1
TRANSOM HEAD



7
DOOR JAMB
AT TRANSOM

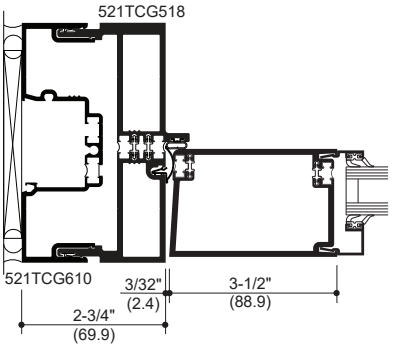


8
DOOR JAMB
AT TRANSOM

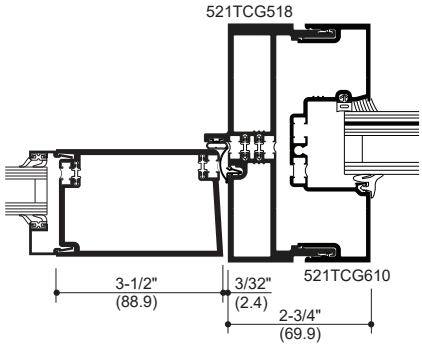


2
DOOR WITH TRANSOM

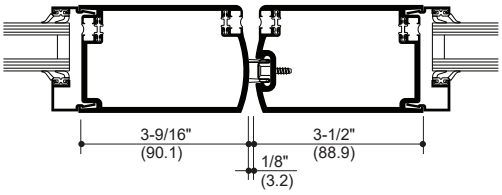
Transom for C.O.C. also available



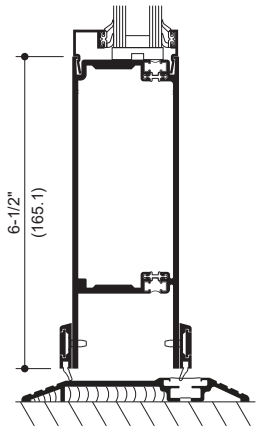
4
DOOR JAMB



6
DOOR JAMB



5
PAIR OF DOORS



3
THRESHOLD

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

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.

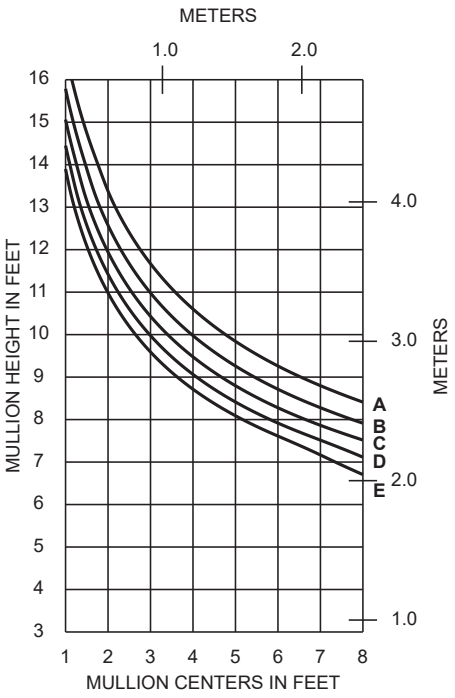
DEADLOAD CHARTS

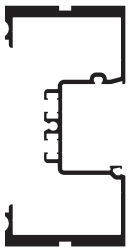
Horizontal or deadload limitations are based upon 1/8" (3.2), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1-5/16" (33.3) thick insulated impact resistant glass supported on two setting blocks placed at the loading points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

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)

521TCG141
WITH HORIZONTALS

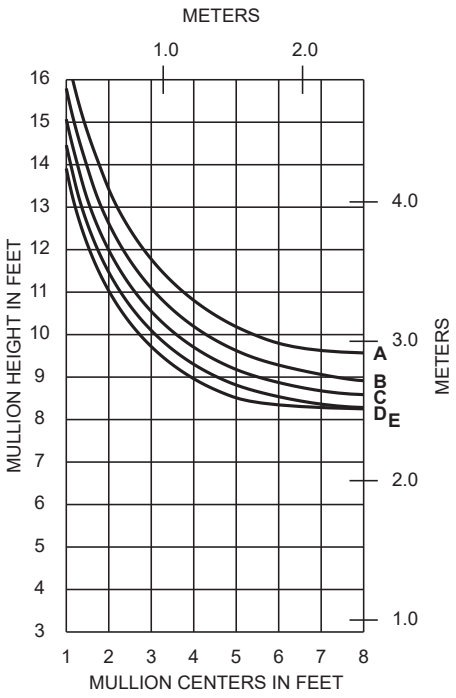




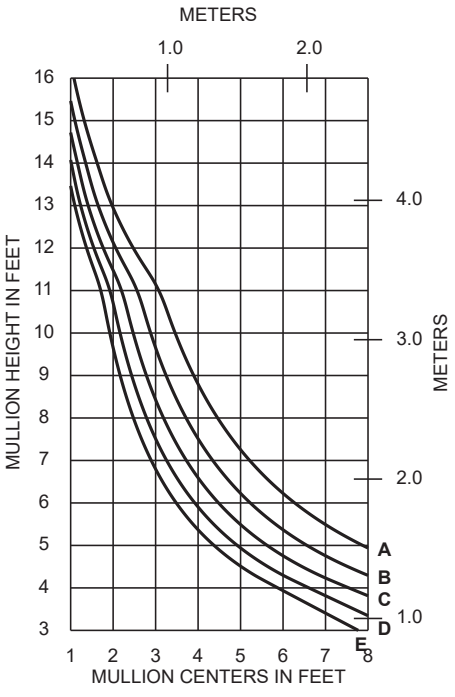
521CG141
(IR 521)

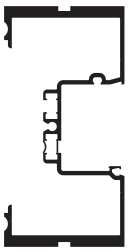
I_A = 8.019 in^4 (333.77 x 10^4 mm^4)
S_A = 3.204 in^3 (52.50 x 10^3 mm^3)

521TCG141
WITHOUT HORIZONTALS



521TCG141
WITH HORIZONTALS

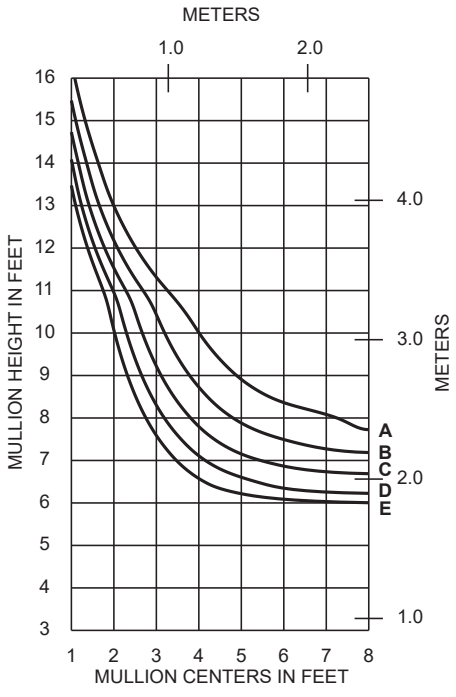




521TCG141
(IR 521T)

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

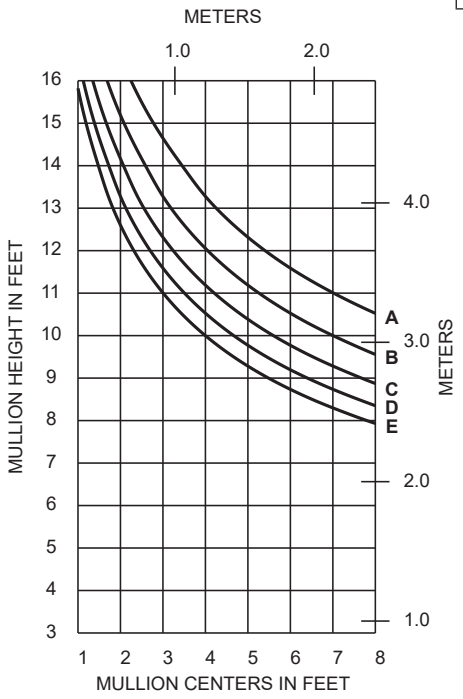
521TCG141
WITHOUT HORIZONTALS

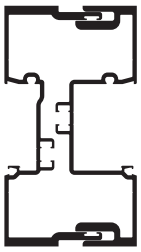


HURRICANE RESISTANT PRODUCT

	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)

521CG209 & 521CG210 WITH HORIZONTALS

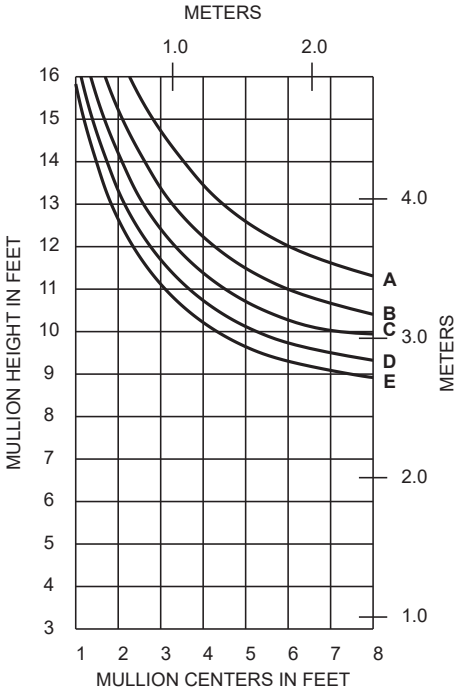




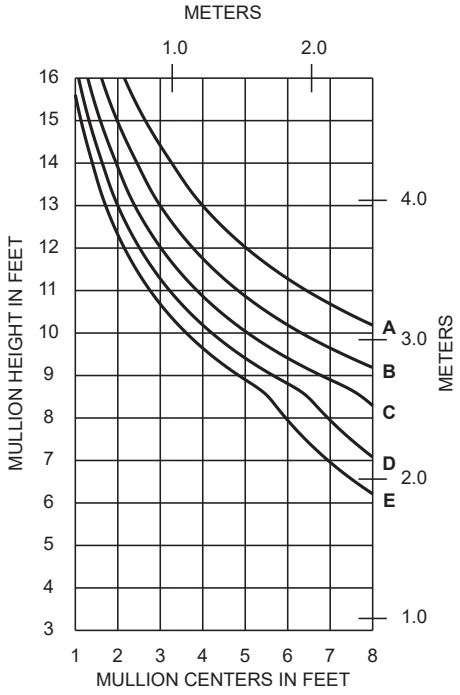
521CG209 / 521CG210 (IR 521)

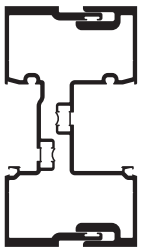
I_A = 9.421 in^4 (392.13 x 10^4 mm^4)
S_A = 3.754 in^3 (61.52 x 10^3 mm^3)

521CG209 & 521CG210 WITHOUT HORIZONTALS



521TCG209 & 521TCG210 WITH HORIZONTALS

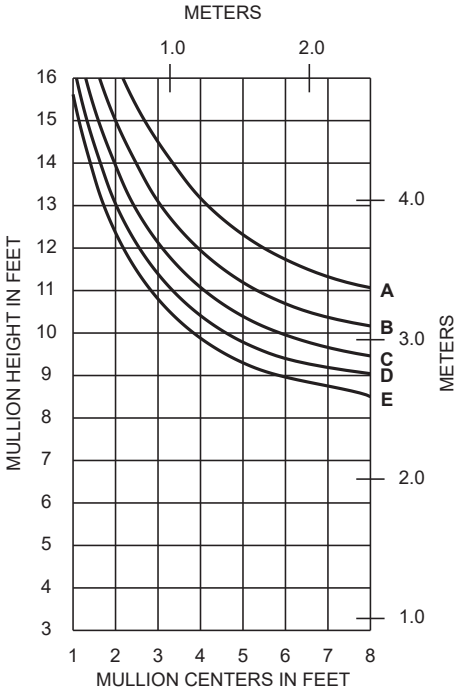




521TCG209 / 521TCG210 (IR 521T)

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

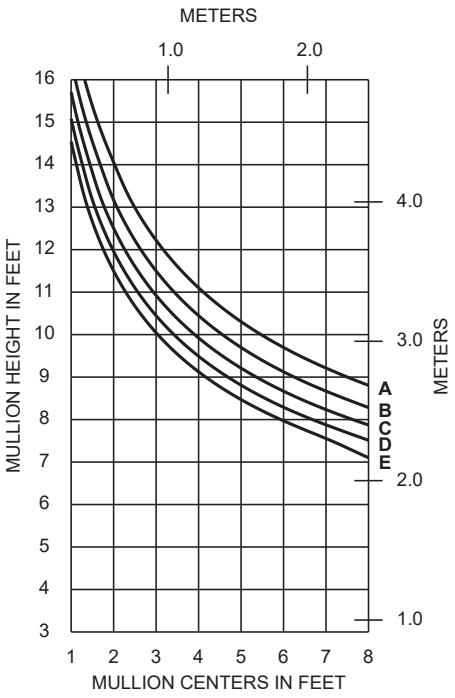
521TCG209 & 521TCG210 WITHOUT HORIZONTALS

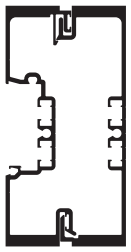


HURRICANE RESISTANT PRODUCT

	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)

521CG240 & 521CG340 WITH HORIZONTALS

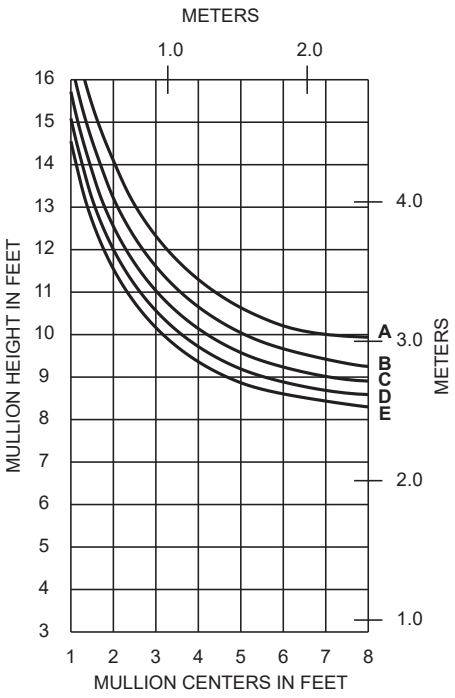




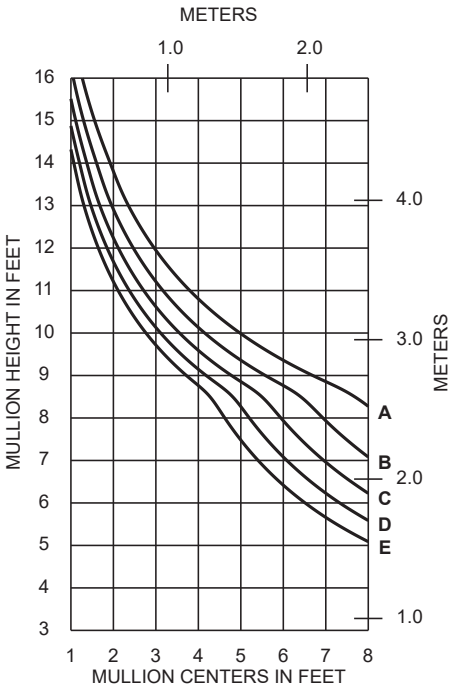
521CG240 / 521CG340 (IR 521)

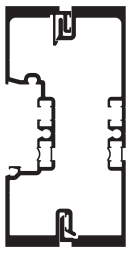
I_A = 9.206 in^4 (383.18 x 10^4 mm^4)
S_A = 3.611 in^3 (59.17 x 10^3 mm^3)

521CG240 & 521CG340 WITHOUT HORIZONTALS



521TCG240 & 521TCG340 WITH HORIZONTALS

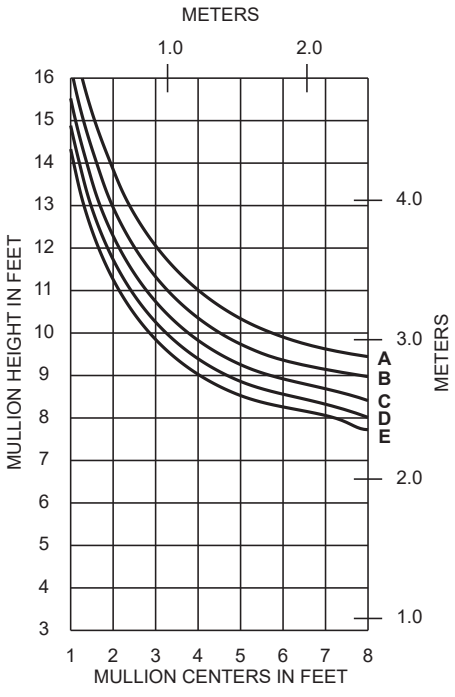




521TCG240 / 521TCG340 (IR 521T)

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

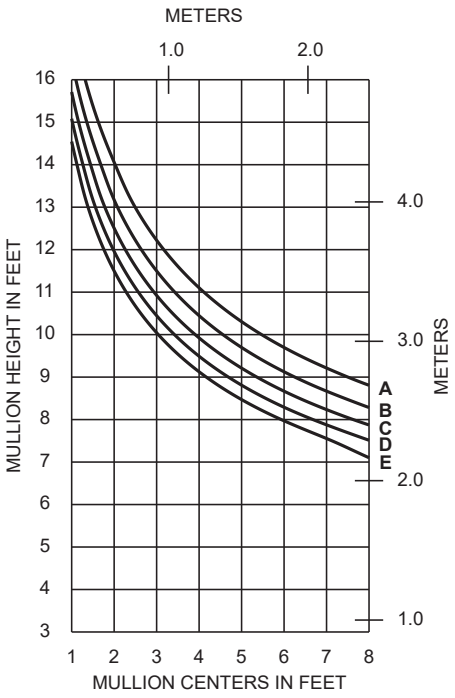
521TCG240 & 521TCG340 WITHOUT HORIZONTALS

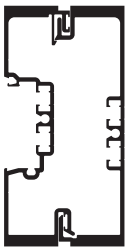


HURRICANE RESISTANT PRODUCT

	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)

521CG540 & 521CG340 WITH HORIZONTALS

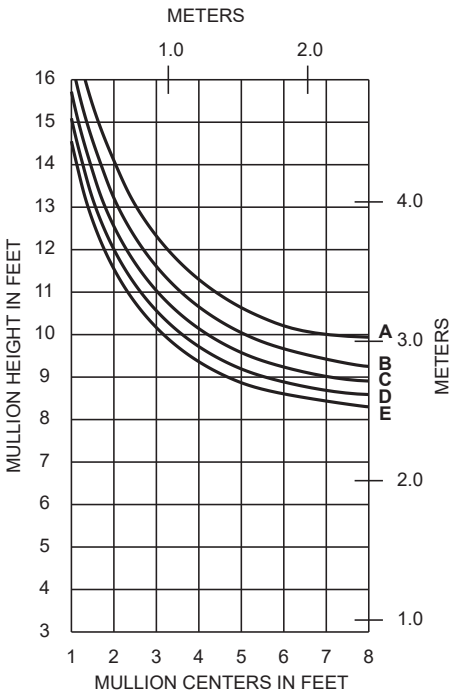




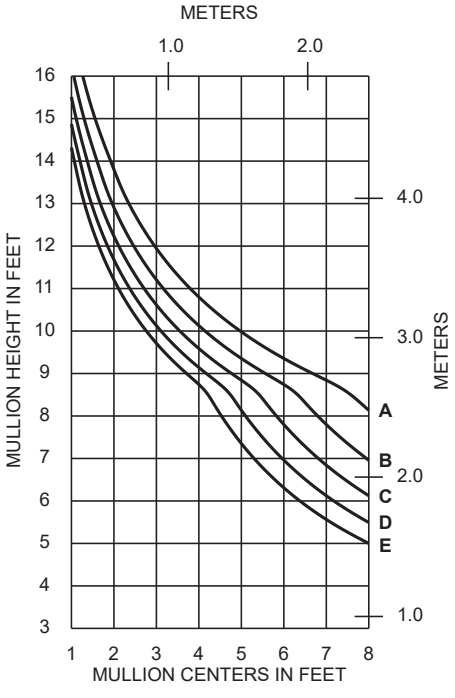
521CG540 / 521CG340 (IR 521)

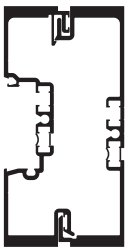
I_A = 9.206 in^4 (383.18 x 10^4 mm^4)
S_A = 3.612 in^3 (59.19 x 10^3 mm^3)

521CG540 & 521CG340 WITHOUT HORIZONTALS



521TCG540 & 521TCG340 WITH HORIZONTALS

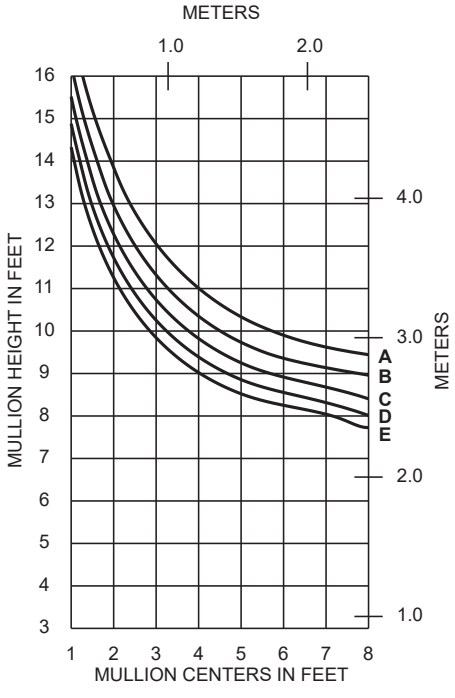




521TCG540 / 521TCG340 (IR 521T)

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

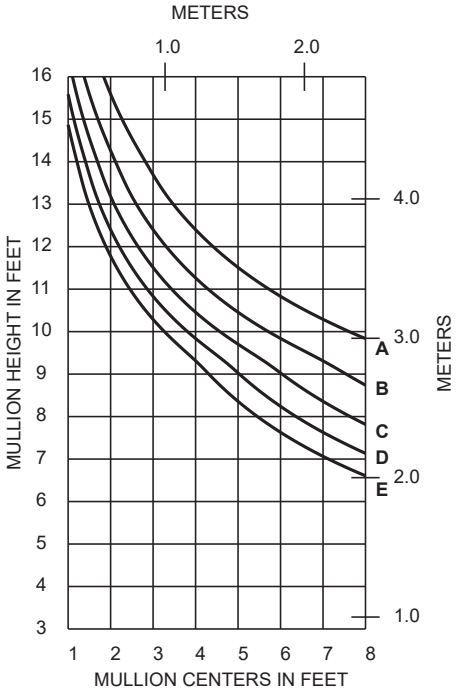
521TCG540 & 521TCG340 WITHOUT HORIZONTALS

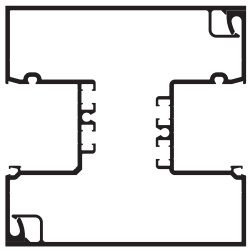


HURRICANE RESISTANT PRODUCT

	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)

521CG316 & 521CG116 WITH HORIZONTALS

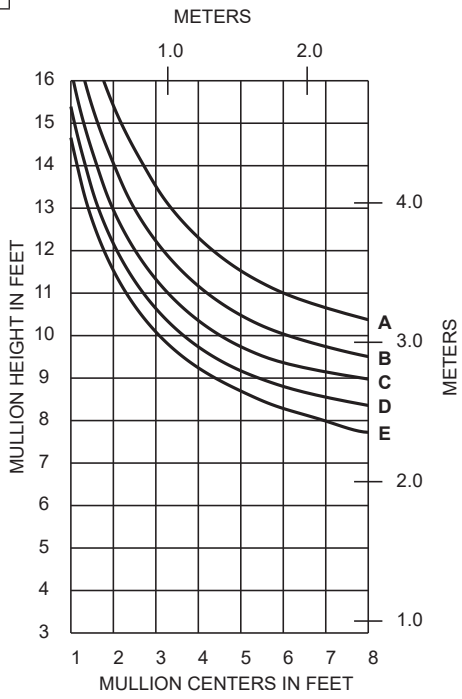




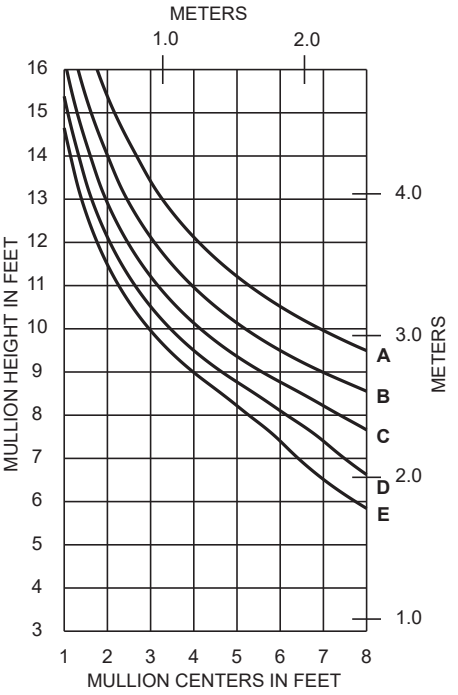
521CG316 / 521CG116 (IR 521)

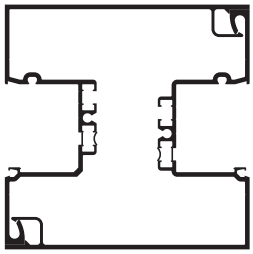
I_A = 7.693 in^4 (320.21 x 10^4 mm^4)
S_A = 2.422 in^3 (39.69 x 10^3 mm^3)

521CG316 & 521CG116 WITHOUT HORIZONTALS



521CGT316 & 521TCG116 WITH HORIZONTALS

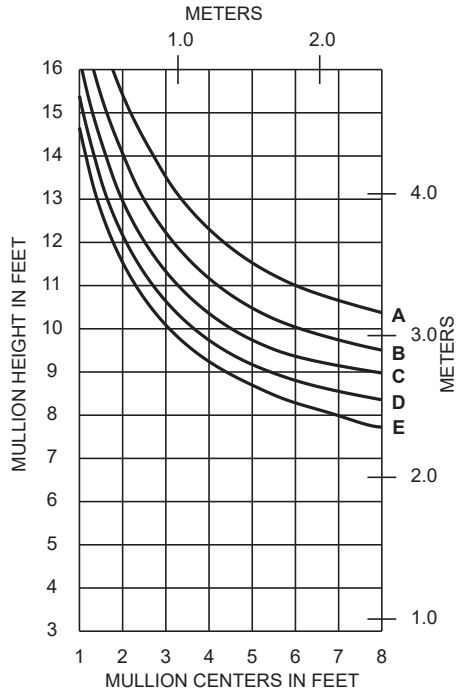




521TCG316 / 521TCG116 (IR 521T)

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

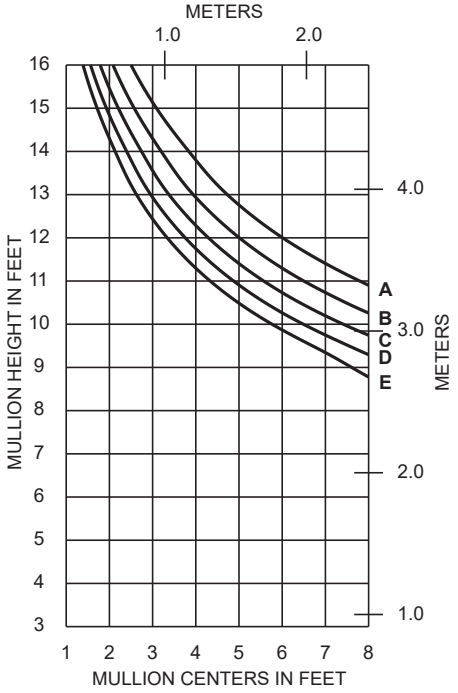
521TCG316 & 521TCG116 WITHOUT HORIZONTALS

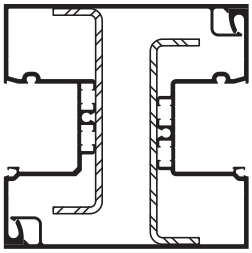


HURRICANE RESISTANT PRODUCT

	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)

521CG316 & 521CG116 & 575300 WITH HORIZONTALS



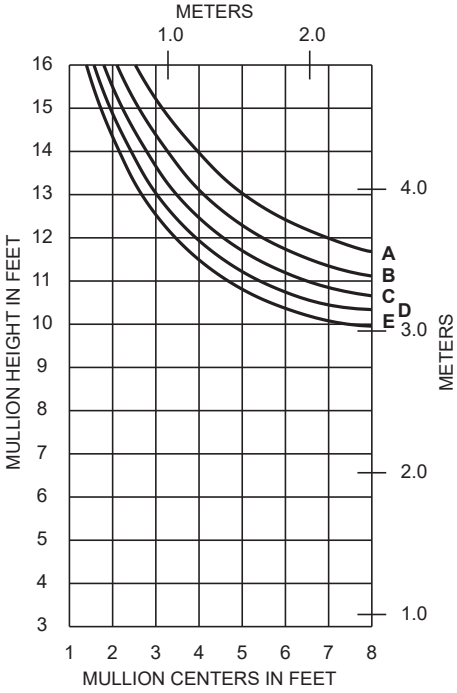


521CG316 / 521CG116 with 575300 STEEL (IR 521)

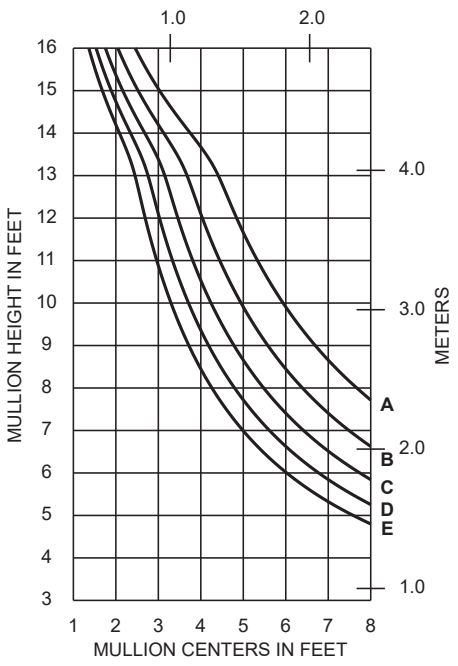
I_A = 7.693 in^4 (320.21 x 10^4 mm^4)
S_A = 2.422 in^3 (39.69 x 10^3 mm^3)

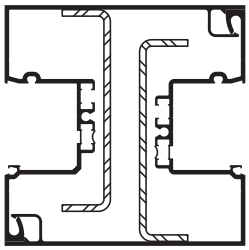
I_S = 3.368 in^4 (140.19 x 10^4 mm^4)
S_S = 1.608 in^3 (26.35 x 10^3 mm^3)

521CG316 & 521CG116 & 575300 WITHOUT HORIZONTALS



521TCG316 & 521TCG116 & 575300 WITH HORIZONTALS



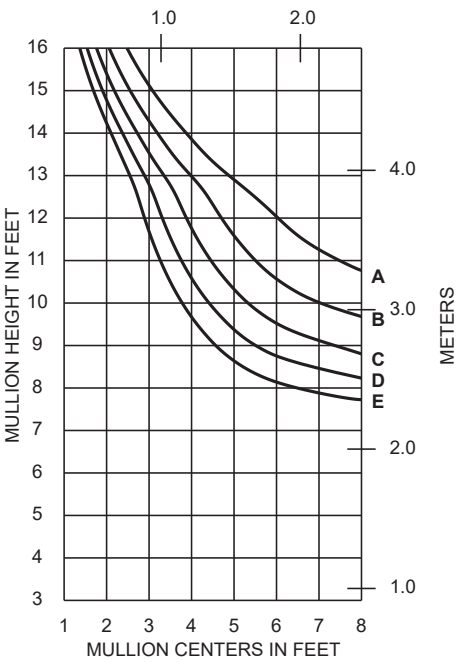


521TCG316 / 521TCG116 WITH 575300 STEEL (IR 521T)

I_S = 3.368 in^4 (140.19 x 10^4 mm^4)
S_S = 1.608 in^3 (26.35 x 10^3 mm^3)

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

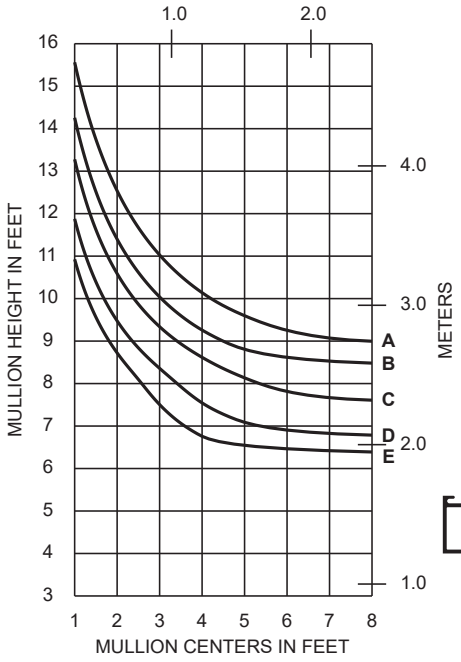
521TCG316 & 521TCG116 & 575300 WITHOUT HORIZONTALS

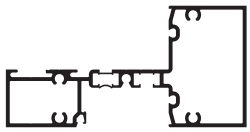


HURRICANE RESISTANT PRODUCT

	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 =	70 PSF (3360)	117 PSF (5600)
E =	90 PSF (4310)	150 PSF (7200)

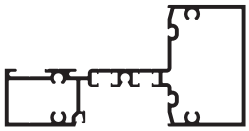
521CG011
SINGLE SPAN





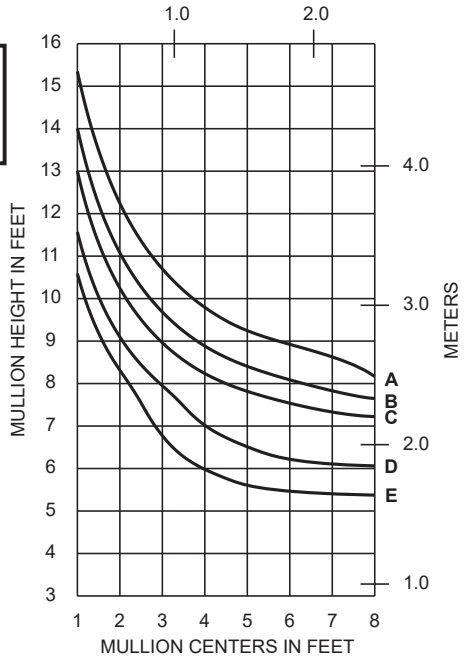
521TCG011
(IR 521T)

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

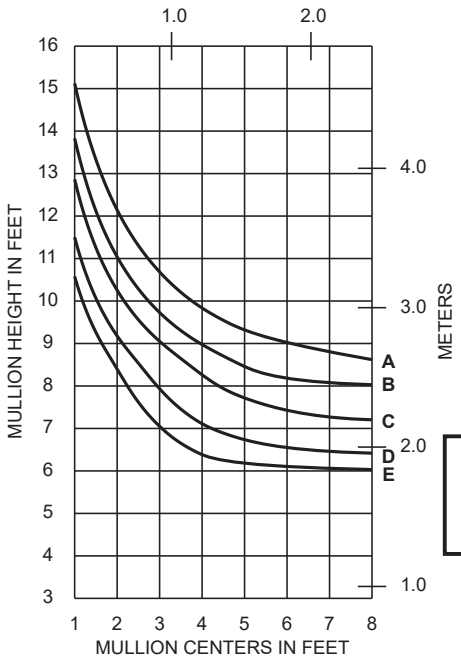


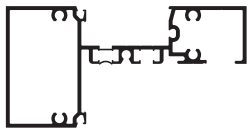
521CG011
(IR 521)

521TCG011
SINGLE SPAN



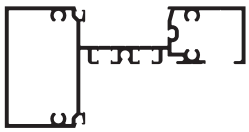
521CG311
SINGLE SPAN





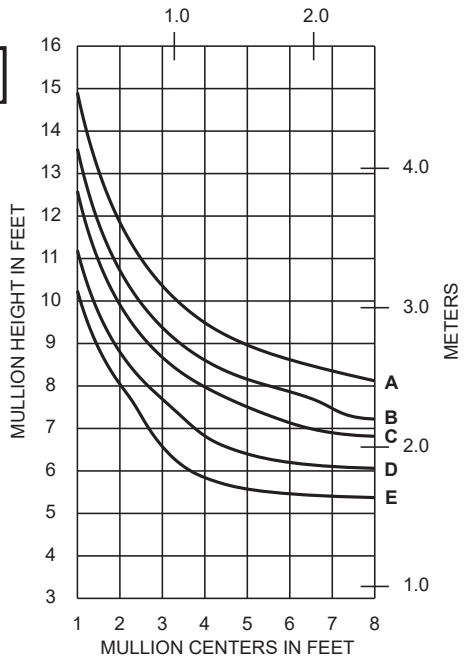
521TCG311
(IR 521T)

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



521CG311
(IR 521)

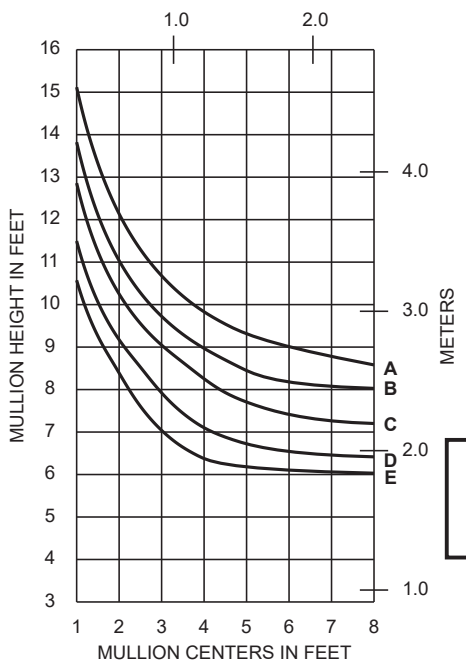
521TCG311
SINGLE SPAN

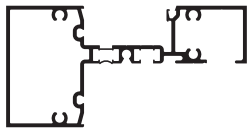


HURRICANE RESISTANT PRODUCT

	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 =	70 PSF (3360)	117 PSF (5600)
E =	90 PSF (4310)	150 PSF (7200)

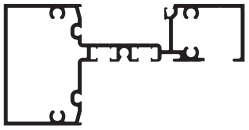
521CG111
SINGLE SPAN





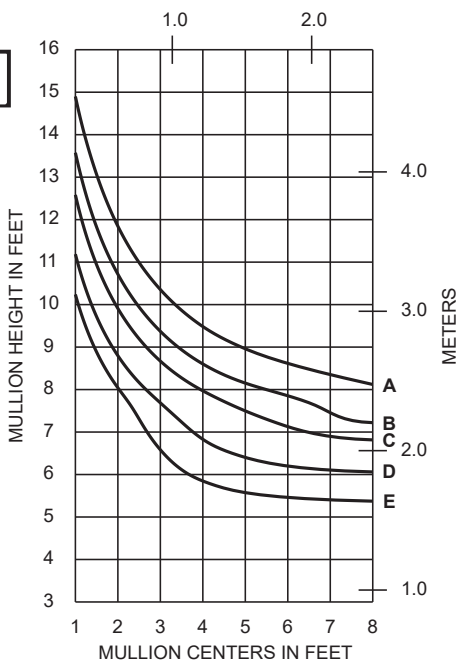
521TCG111
(IR 521T)

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

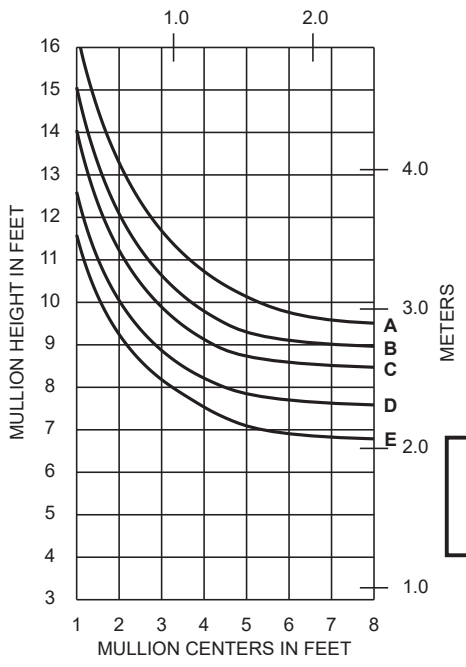


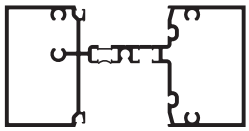
521CG111
(IR 521)

521TCG111
SINGLE SPAN



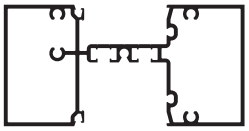
521CG211
SINGLE SPAN





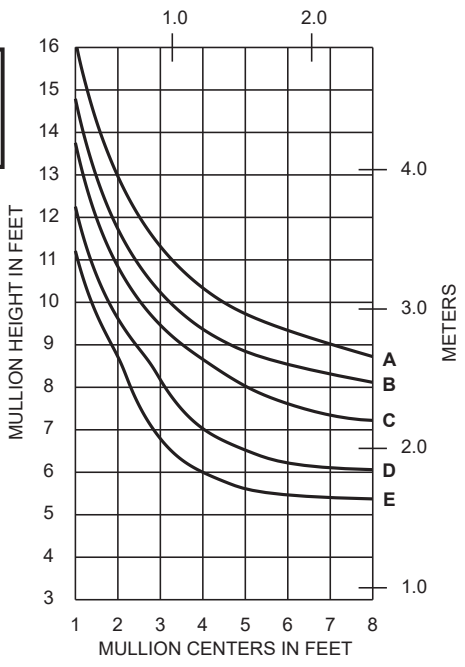
521TCG311
(IR 521T)

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



521CG211
(IR 521)

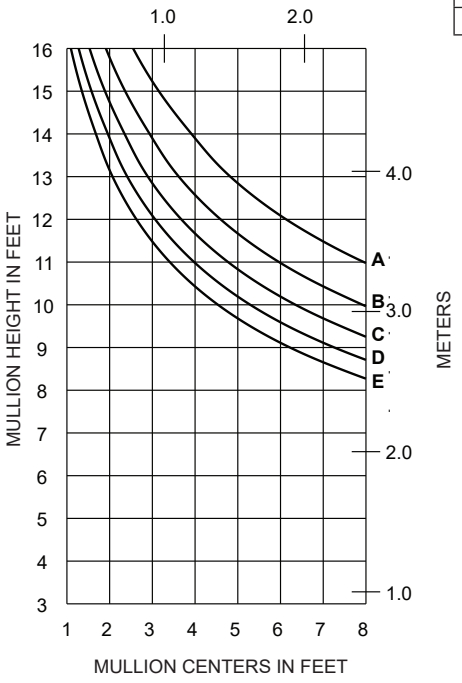
521TCG311
SINGLE SPAN

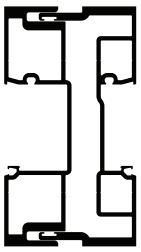


HURRICANE RESISTANT PRODUCT

	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)

521CG510 & 521CG509 WITH HORIZONTALS



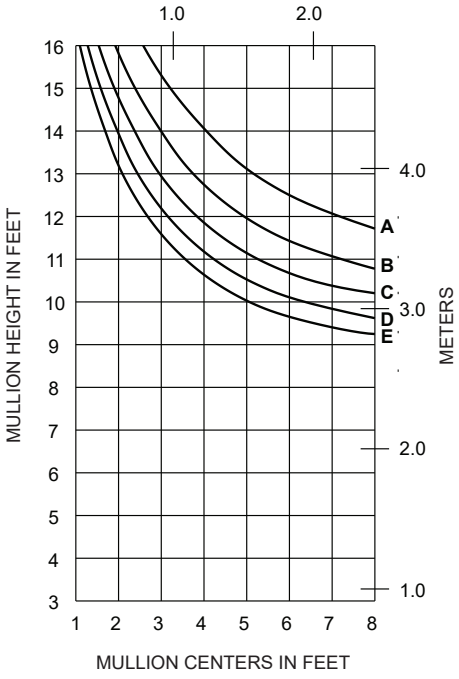


521CG510 / 521CG509 (IR 521)

I_A = 10.687 in^4 (444.83 x 10^4 mm^4)
S_A = 4.26 in^3 (69.81 x 10^3 mm^3)

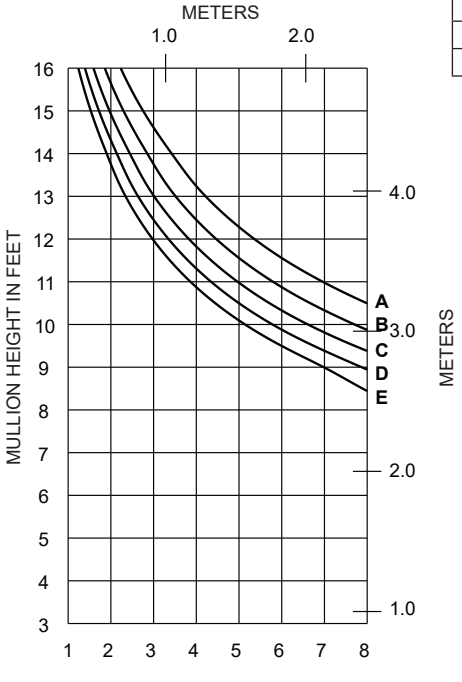
WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

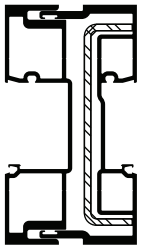
521CG510 & 521CG509 WITHOUT HORIZONTALS



	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)

521CG510 & 521CG509 & 575300 WITH HORIZONTALS

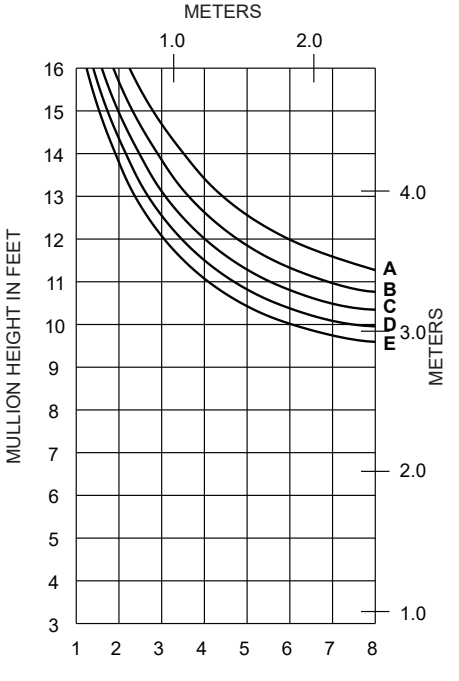




521CG510 / 521CG509 WITH 575300 STEEL (IR 521)

I_S = 1.684 in^4 (80.54 x 10^4 mm^4)
S_S = 0.804 in^3 (15.37 x 10^3 mm^3)

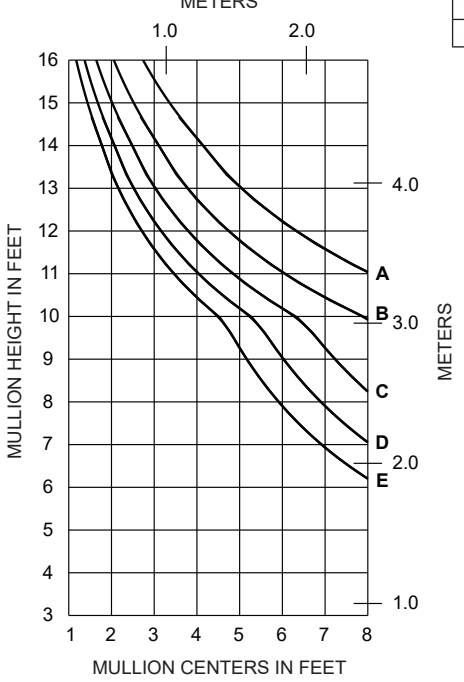
521CG510 & 521CG509 & 575300 WITHOUT HORIZONTALS

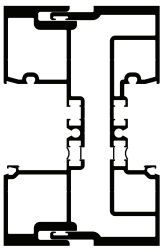


HURRICANE RESISTANT PRODUCT

	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)

521TCG410 & 521TCG409 WITH HORIZONTALS

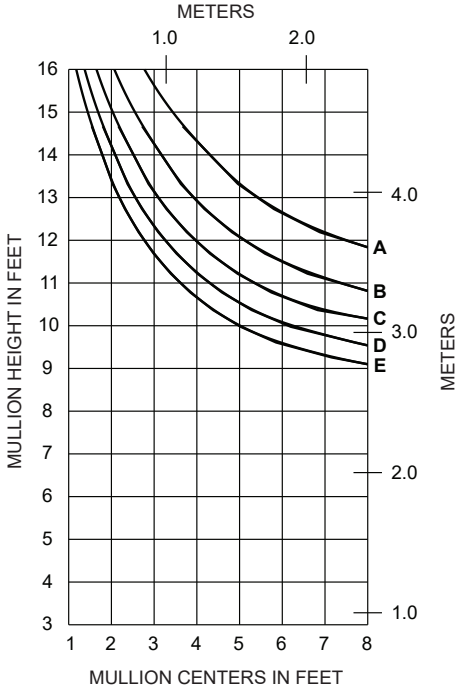




521TCG410 / 521TCG409 (IR 521T)

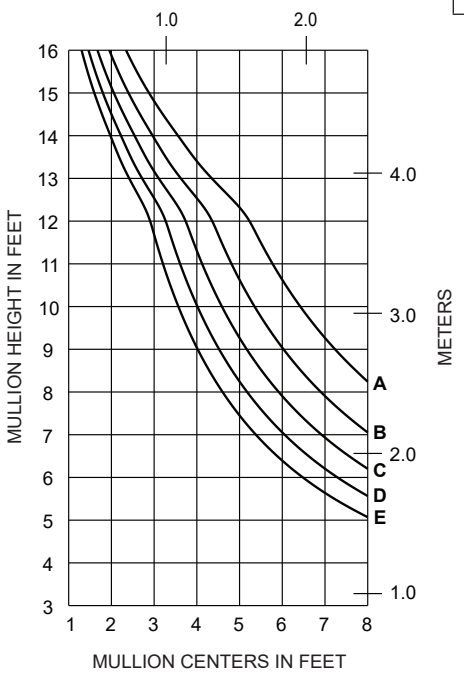
WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

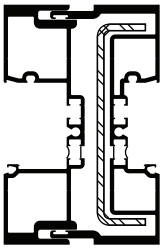
521TCG410 & 521TCG409 WITHOUT HORIZONTALS



	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 & 575300 WITH HORIZONTALS



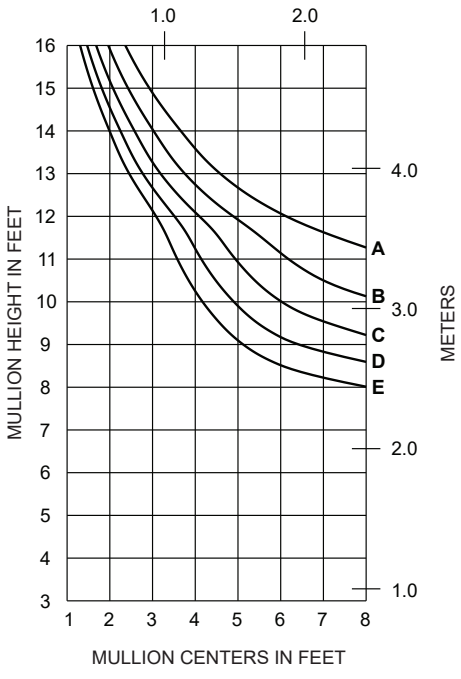


521TCG410 / 521TCG409 WITH 575300 STEEL (IR 521T)

I_S = 1.684 in^4 (80.54 x 10^4 mm^4)
S_S = 0.804 in^3 (15.37 x 10^3 mm^3)

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

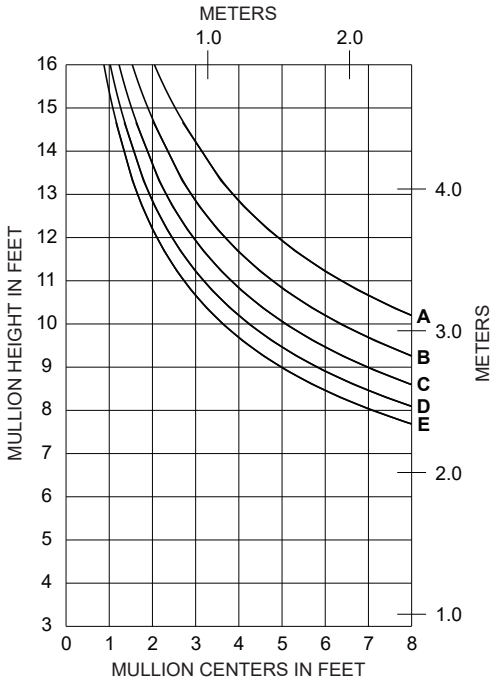
521TCG410 & 521TCG409 & 575300 WITHOUT HORIZONTALS

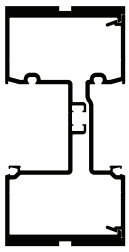


HURRICANE RESISTANT PRODUCT

	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



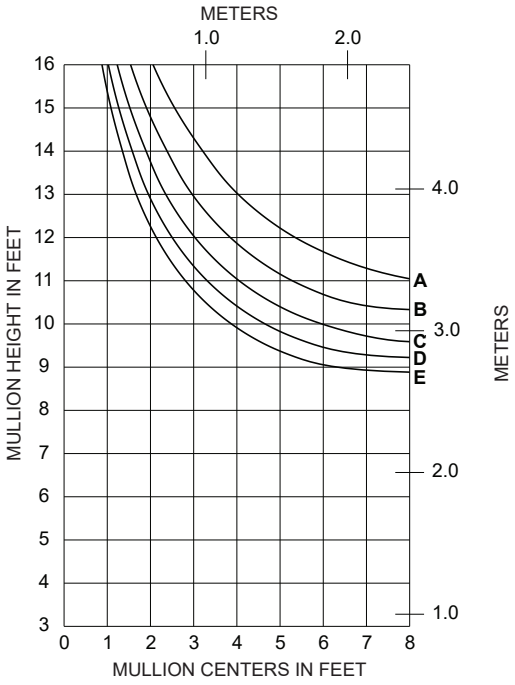


521CG441 / 521CG502
(IR 521)

I_A = 8.573 in^4 (356.83 x 10^4 mm^4)
S_A = 3.447 in^3 (56.49 x 10^3 mm^3)

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

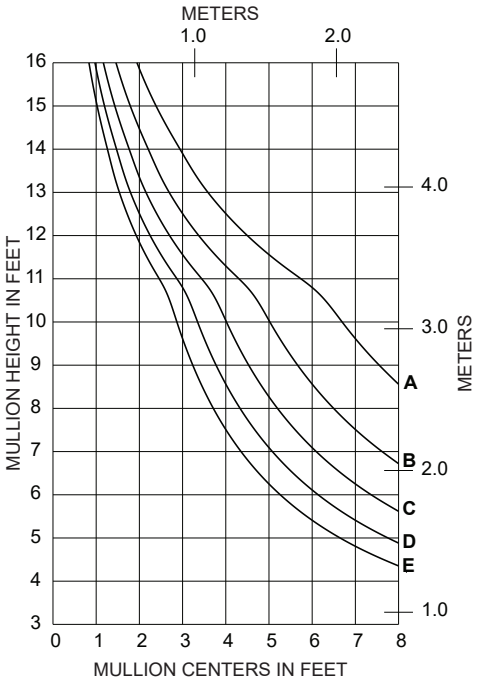
521CG441 & 521CG502
WITHOUT HORIZONTALS

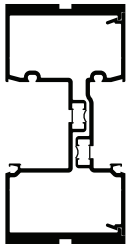


HURRICANE RESISTANT PRODUCT

	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 & 521CG102 WITH HORIZONTALS

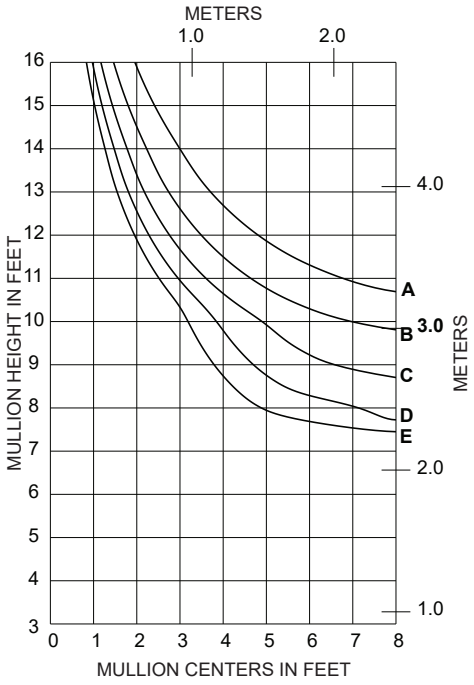




521CG441 / 521CG102 (IR 521)

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

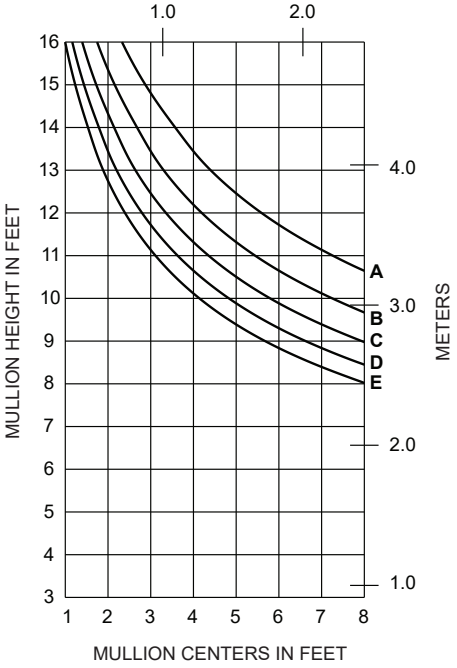
521CG441 & 521CG102 WITHOUT HORIZONTALS

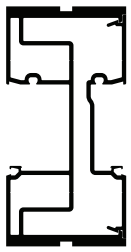


HURRICANE RESISTANT PRODUCT

	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)

521CG513 & 521CG502 WITH HORIZONTALS



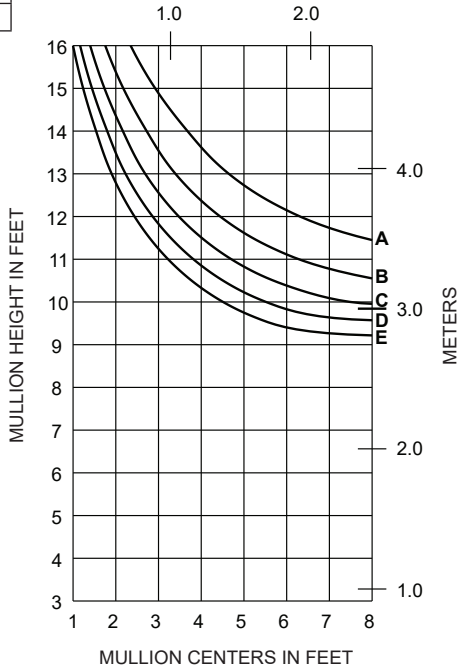


521CG513 / 521CG502 (IR 521)

I_A = 10.687 in^4 (444.83 x 10^4 mm^4)
S_A = 4.26 in^3 (69.81 x 10^3 mm^3)

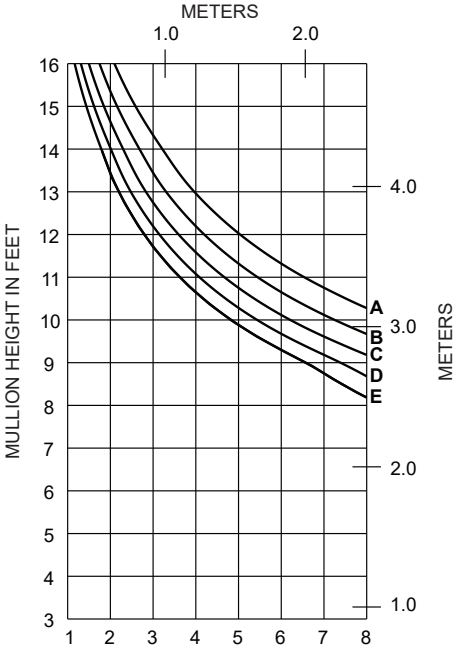
WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

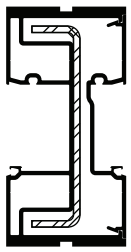
521CG513 & 521CG502 WITHOUT HORIZONTALS



	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)

521CG510 & 521CG509 & 575300 WITH HORIZONTALS

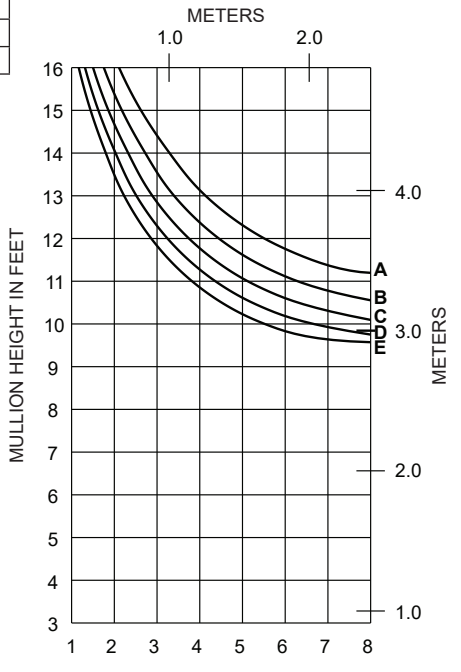




521CG510 / 521CG509 WITH 575300 STEEL (IR 521)

I_S = 1.684 in^4 (80.54 x 10^4 mm^4)
S_S = 0.804 in^3 (15.37 x 10^3 mm^3)

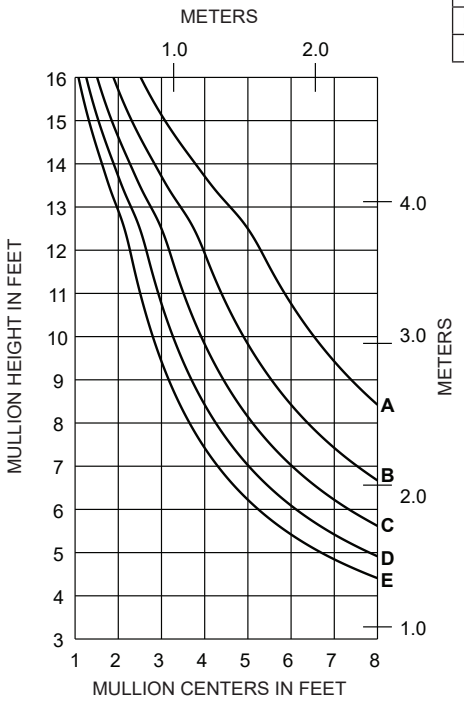
521CG510 & 521CG509 & 575300 WITHOUT HORIZONTALS

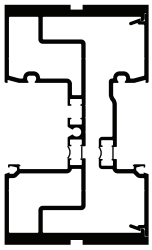


HURRICANE RESISTANT PRODUCT

	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)

521TCG413 & 521TCG102 WITH HORIZONTALS

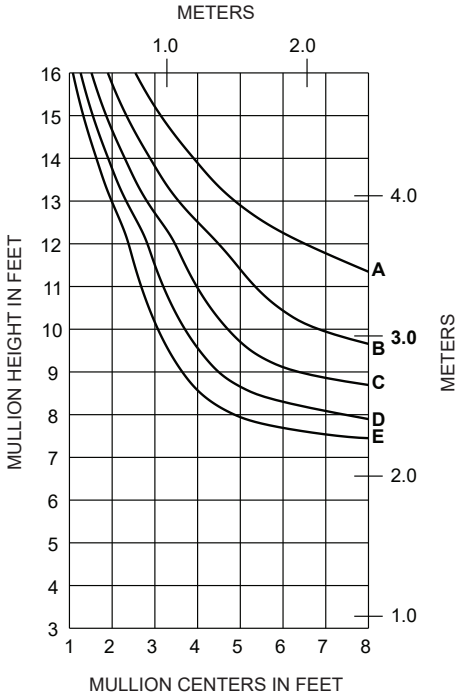




521TCG413 / 521TCG102 (IR 521T)

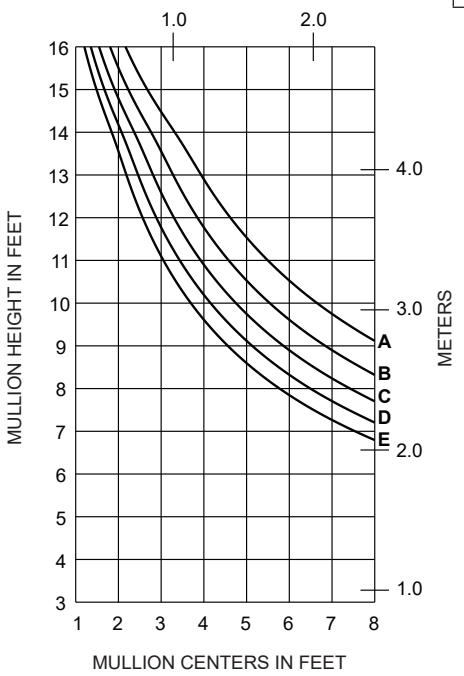
WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

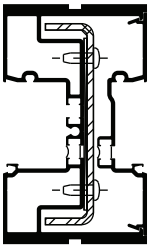
521TCG413 & 521TCG102 WITHOUT HORIZONTALS



	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 & 575300 WITH HORIZONTALS



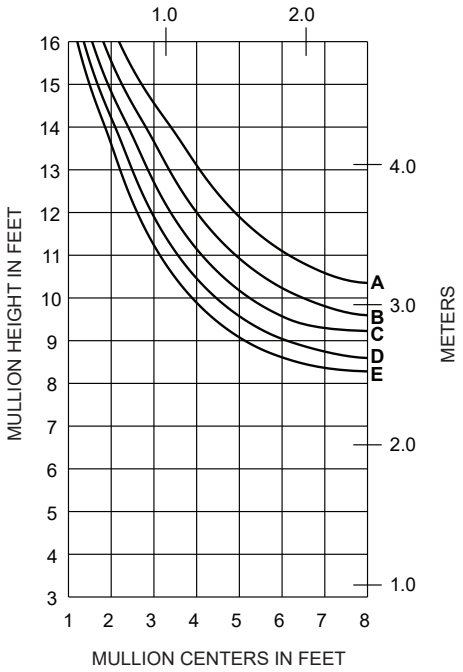


521TCG413 / 521TCG102 WITH 575300 STEEL (IR 521T)

I_S = 1.684 in^4 (80.54 x 10^4 mm^4)
S_S = 0.804 in^3 (15.37 x 10^3 mm^3)

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

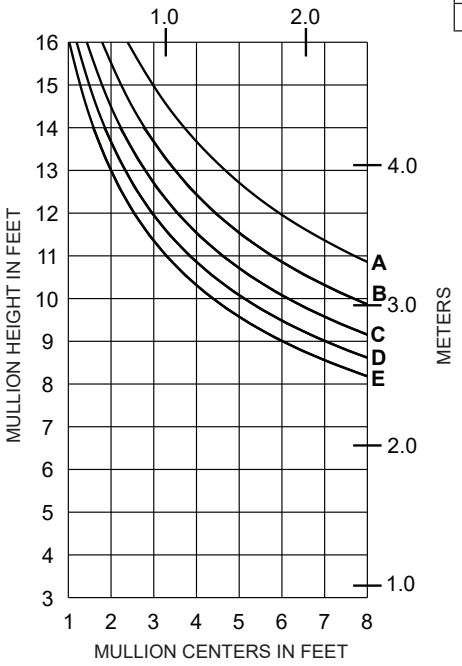
521TCG413 & 521TCG102 & 575300 WITHOUT HORIZONTALS

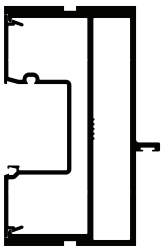


HURRICANE RESISTANT PRODUCT

	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)

521CG019 & 521CG018 WITH HORIZONTALS

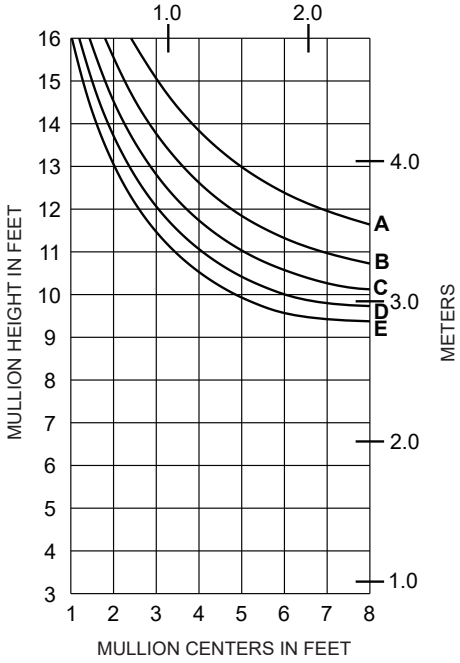




521CG019 / 521CG018 (IR 521)

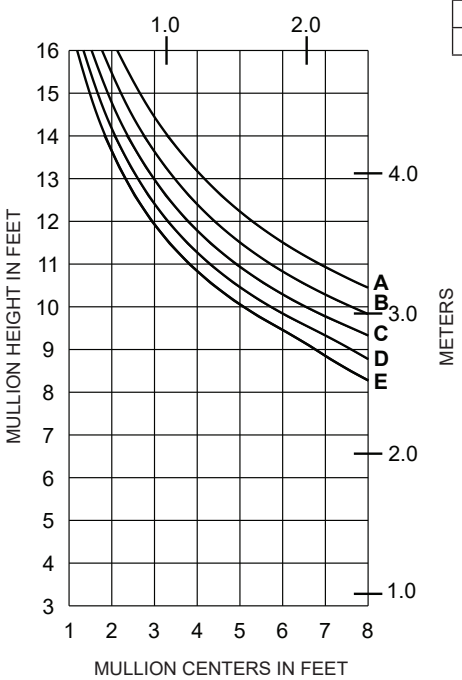
I_A = 10.060 in^4 (418.73 x 10^4 mm^4)
S_A = 3.958 in^3 (64.86 x 10^3 mm^3)

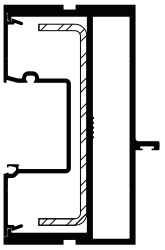
521CG019 & 521CG018 WITHOUT HORIZONTALS



	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)

521CG019 & 521CG018 & 575300 WITH HORIZONTALS



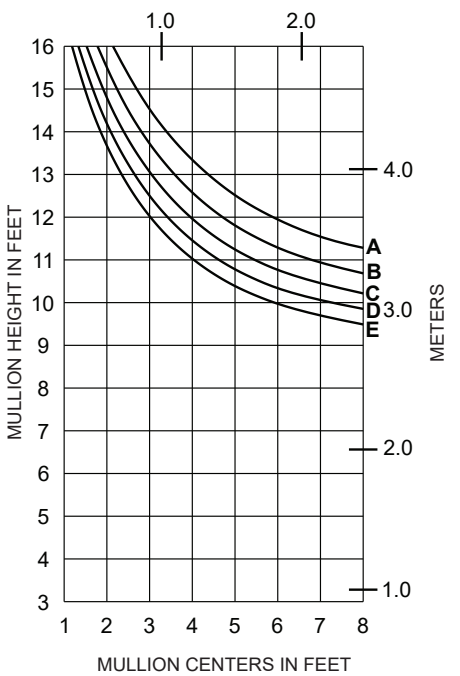


521CG019 / 521CG018 WITH 575300 STEEL (IR 521)

I_A = 10.060 in^4 (418.73 x 10^4 mm^4)
S_A = 3.958 in^3 (64.86 x 10^3 mm^3)

I_S = 1.684 in^4 (80.54 x 10^4 mm^4)
S_S = 0.804 in^3 (15.37 x 10^3 mm^3)

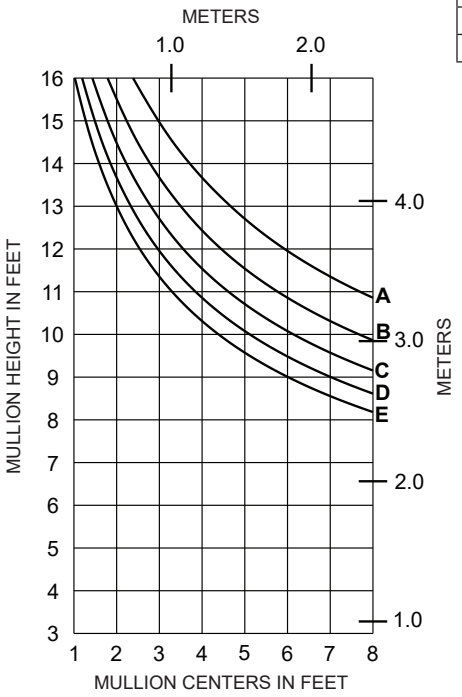
521CG019 & 521CG018 & 575300 WITHOUT HORIZONTALS

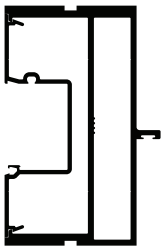


HURRICANE RESISTANT PRODUCT

	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)

521CG019 & 521CG118 WITH HORIZONTALS

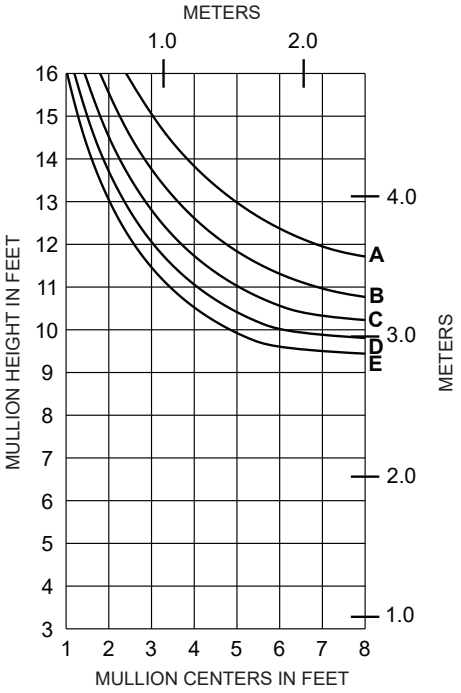




521CG019 / 521CG118 (IR 521)

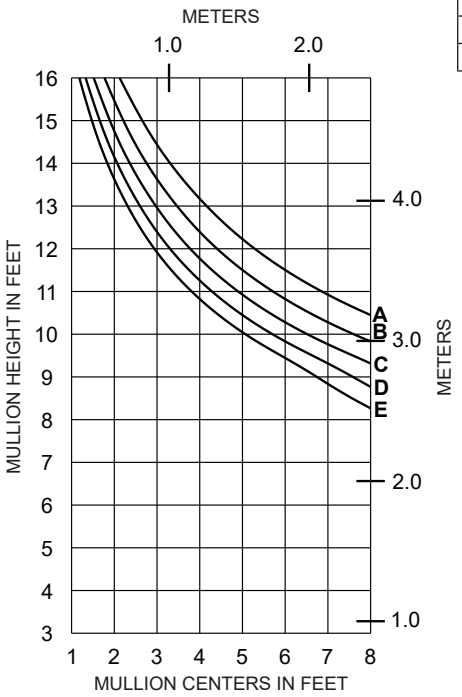
I_A = 10.060 in^4 (418.73 x 10^4 mm^4)
S_A = 3.952 in^3 (64.50 x 10^3 mm^3)

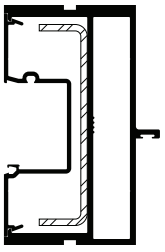
521CG019 & 521CG118 WITHOUT HORIZONTALS



	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)

521CG019 & 521CG118 & 575300 WITH HORIZONTALS



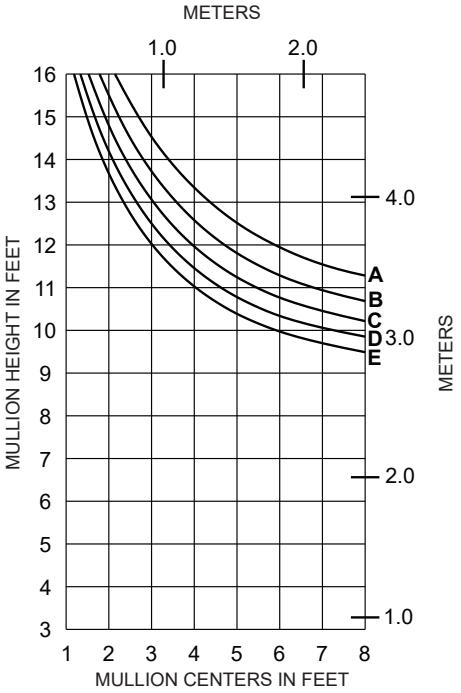


521CG019 / 521CG118 WITH 575300 STEEL (IR 521)

I_A = 10.060 in^4 (418.73 x 10^4 mm^4)
S_A = 3.952 in^3 (64.50 x 10^3 mm^3)

I_S = 1.684 in^4 (80.54 x 10^4 mm^4)
S_S = 0.804 in^3 (15.37 x 10^3 mm^3)

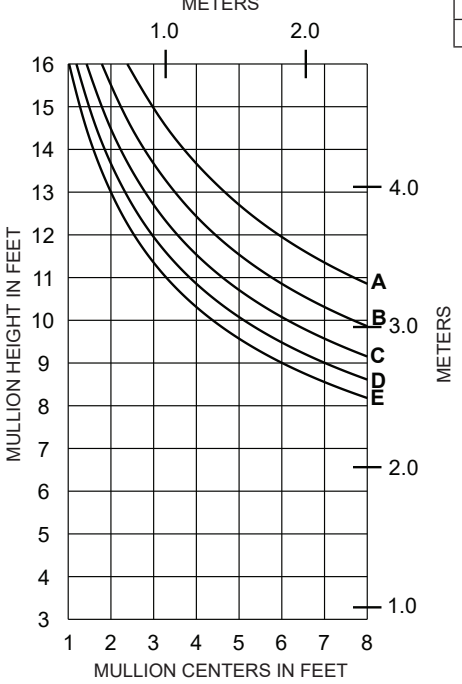
521CG019 & 521CG118 & 575300 WITHOUT HORIZONTALS

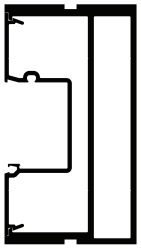


HURRICANE RESISTANT PRODUCT

	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)

521CG019 & 521CG318 WITH HORIZONTALS

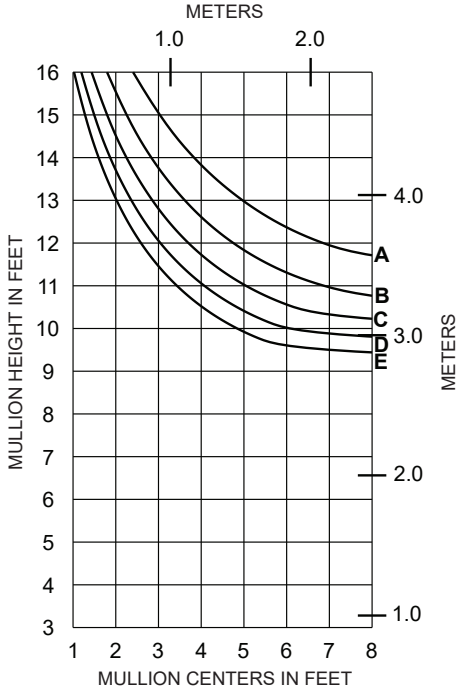




521CG019 / 521CG318 (IR 521)

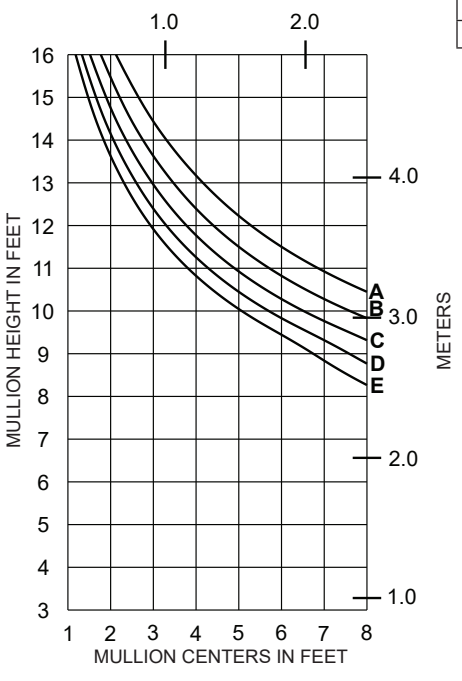
I_A = 10.040 in^4 (417.89 x 10^4 mm^4)
S_A = 3.923 in^3 (64.29 x 10^3 mm^3)

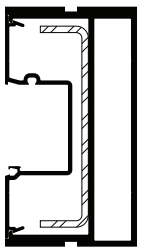
521CG019 & 521CG318 WITHOUT HORIZONTALS



	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)

521CG019 & 521CG318 & 575300 WITH HORIZONTALS



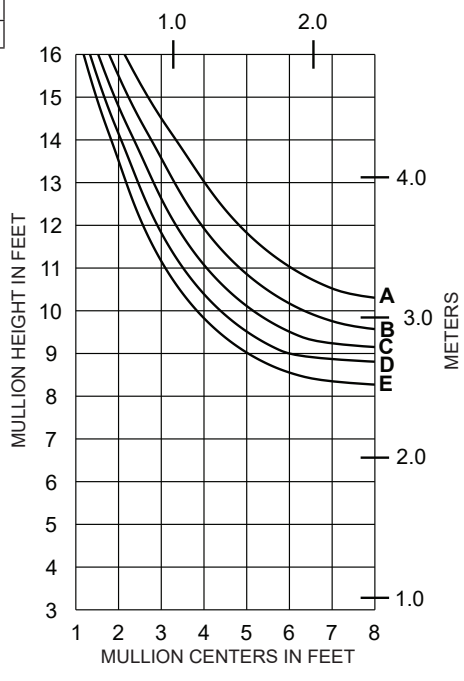


521CG019 / 521CG318 WITH 575300 STEEL (IR 521)

I_A = 10.040 in^4 (417.89 x 10^4 mm^4)
S_A = 3.923 in^3 (64.29 x 10^3 mm^3)

I_S = 1.684 in^4 (80.54 x 10^4 mm^4)
S_S = 0.804 in^3 (15.37 x 10^3 mm^3)

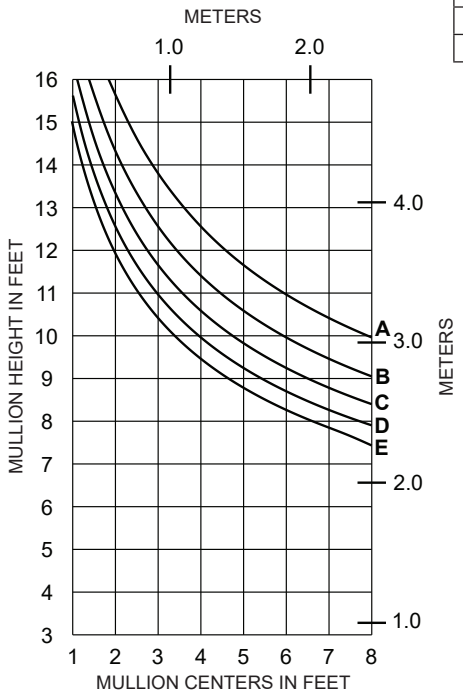
521CG019 & 521CG318 & 575300 WITHOUT HORIZONTALS

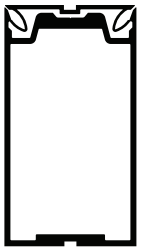


HURRICANE RESISTANT PRODUCT

	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)

521CG264 & 521CG064 WITH HORIZONTALS

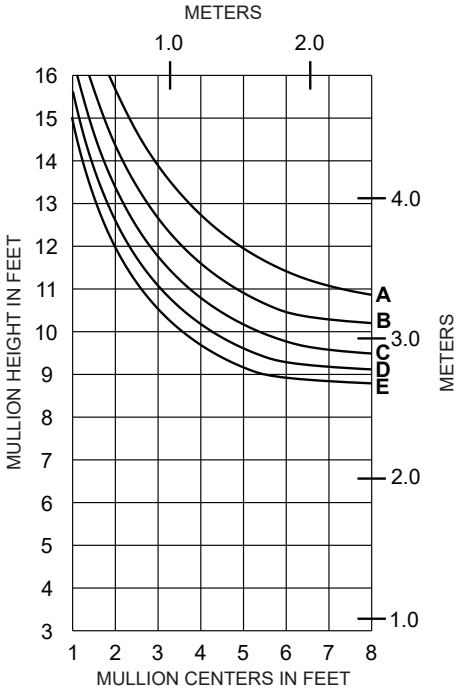




521CG264 / 521CG064 (IR 521)

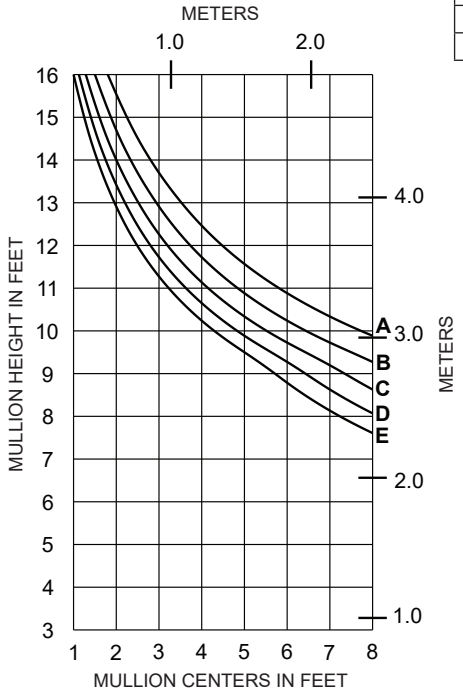
I_A = 7.761 in^4 (323.04 x 10^4 mm^4)
S_A = 3.079 in^3 (50.46 x 10^3 mm^3)

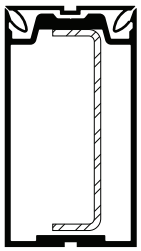
521CG264 & 521CG064 WITHOUT HORIZONTALS



	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)

521CG264 & 521CG064 & 575300 WITH HORIZONTALS



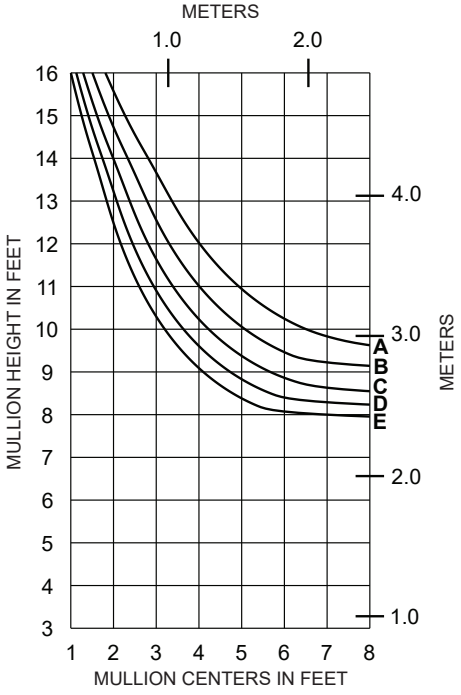


521CG264 / 521CG064 WITH 575300 STEEL (IR 521)

I_A = 7.761 in^4 (323.04 x 10^4 mm^4)
S_A = 3.079 in^3 (50.46 x 10^3 mm^3)

I_S = 1.684 in^4 (80.54 x 10^4 mm^4)
S_S = 0.804 in^3 (15.37 x 10^3 mm^3)

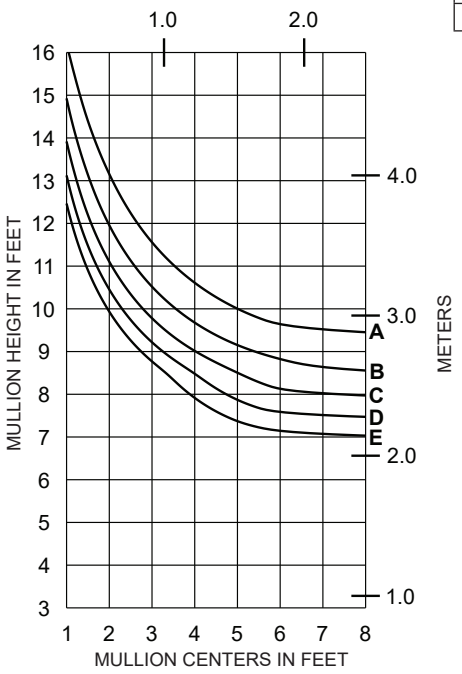
521CG264 & 521CG064 & 575300 WITHOUT HORIZONTALS

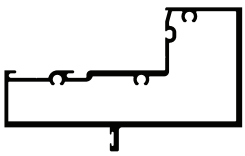


HURRICANE RESISTANT PRODUCT

	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)

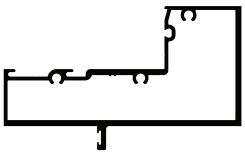
521CG020
SINGLE SPAN





521CG120
(IR 521)

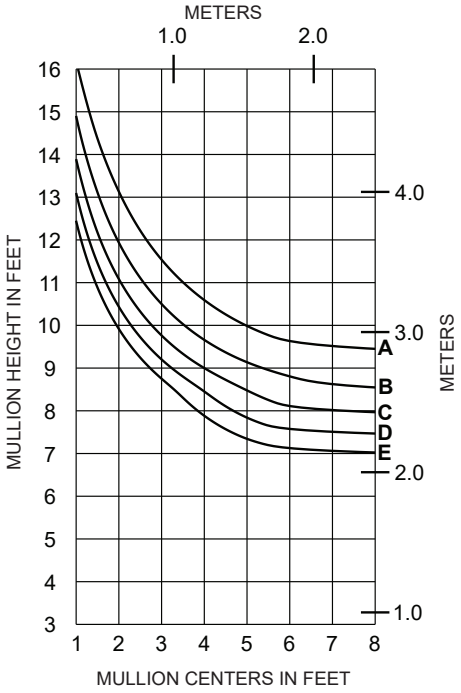
I_A = 4.302 in^4 (179.06 x 10^4 mm^4)
S_A = 1.157 in^3 (18.96 x 10^3 mm^3)



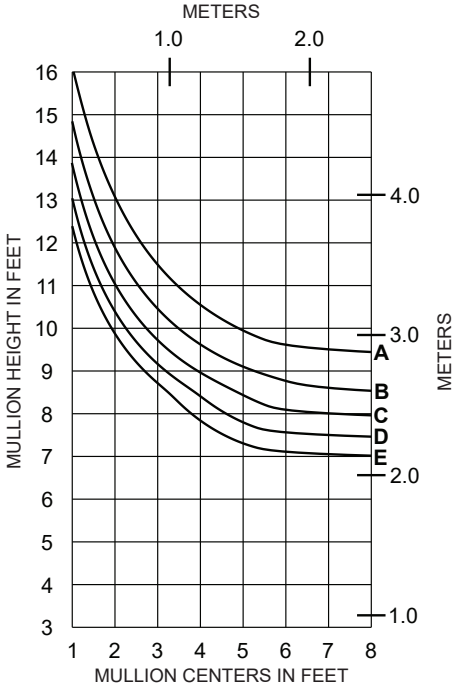
521CG020
(IR 521)

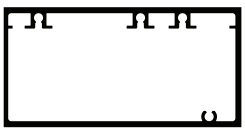
I_A = 4.146 in^4 (183.81 x 10^4 mm^4)
S_A = 1.585 in^3 (25.97 x 10^3 mm^3)

521CG120
SINGLE SPAN



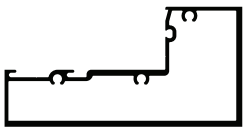
521CG320
SINGLE SPAN





521CG079
(IR 521)

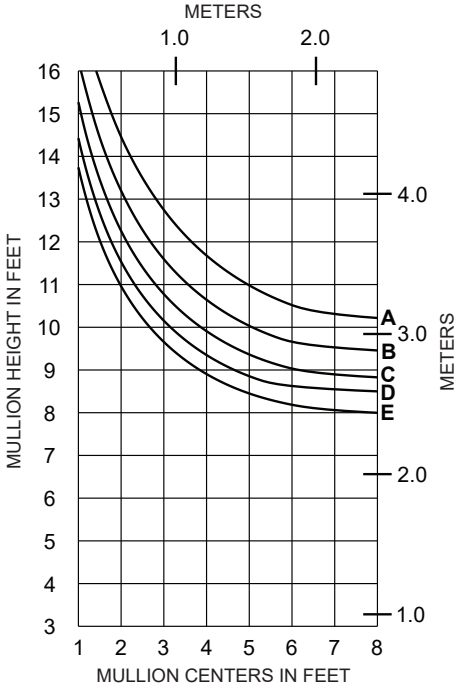
I_A = 5.946 in^4 (247.49 x 10^4 mm^4)
S_A = 2.299 in^3 (37.67 x 10^3 mm^3)



521CG320
(IR 521)

I_A = 4.373 in^4 (182.02 x 10^4 mm^4)
S_A = 1.552 in^3 (25.43 x 10^3 mm^3)

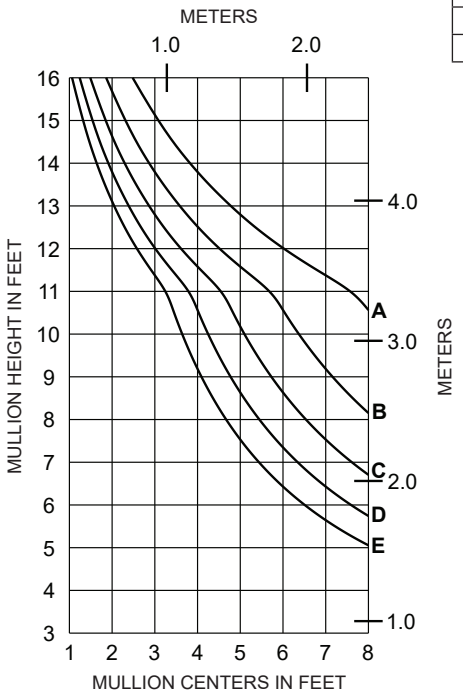
521CG079
SINGLE SPAN

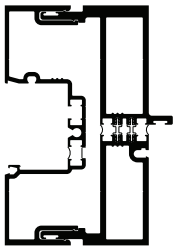


HURRICANE RESISTANT PRODUCT

	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)

521CGT610 & 521TCG218
WITH HORIZONTALS

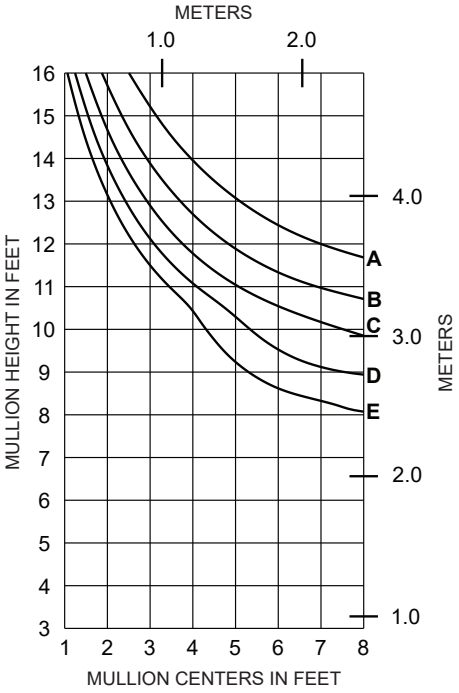




521TCG610 / 521TCG218
(IR 521T)

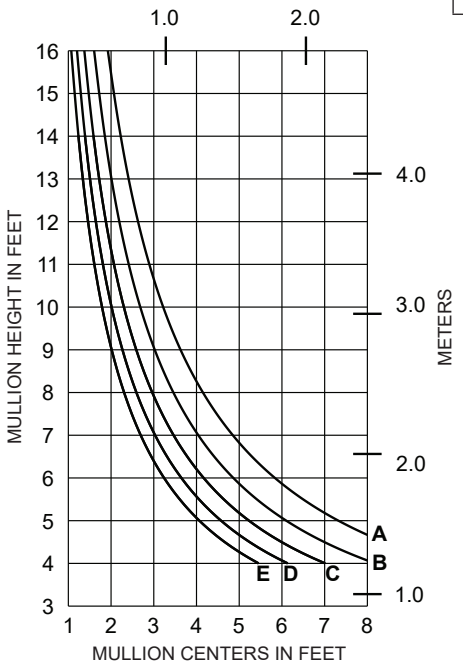
WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

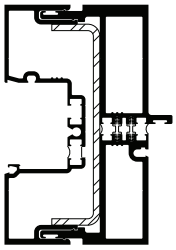
521TCG610 & 521TCG218
WITHOUT HORIZONTALS



	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 & 575300
WITH HORIZONTALS



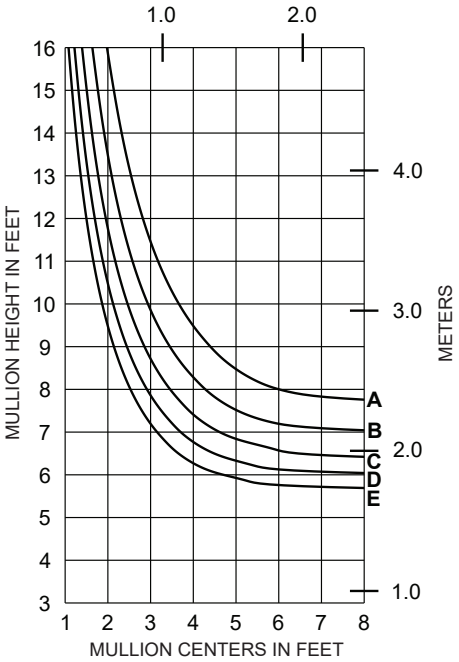


521TCG610 / 521TCG218
WITH 575300 STEEL
(IR 521T)

I_S = 1.684 in^4 (80.54 x 10^4 mm^4)
S_S = 0.804 in^3 (15.37 x 10^3 mm^3)

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

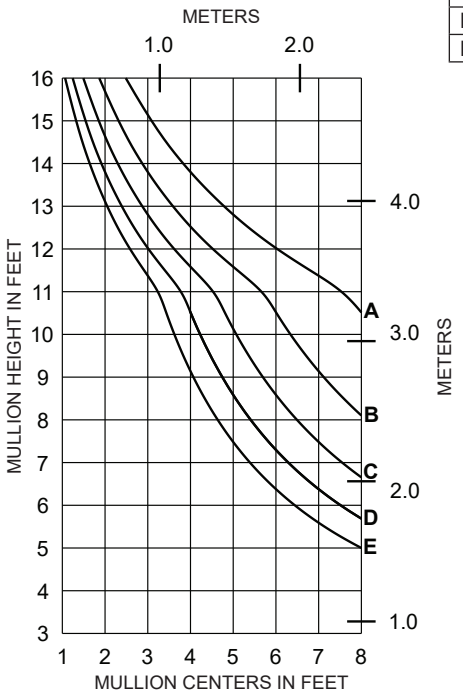
521TCG610 & 521TCG218 & 575300
WITHOUT HORIZONTALS

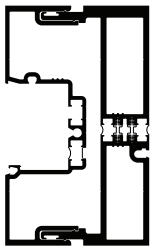


HURRICANE RESISTANT PRODUCT

	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)

521TCG610 & 521TCG218
WITH HORIZONTALS

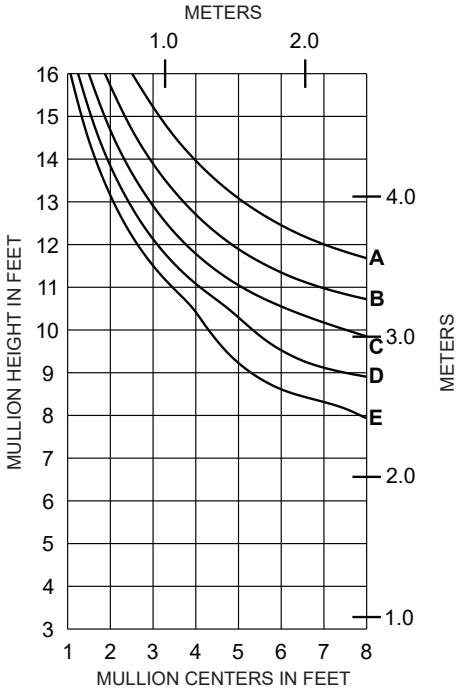




521TCG610 / 521TCG518
(IR 521T)

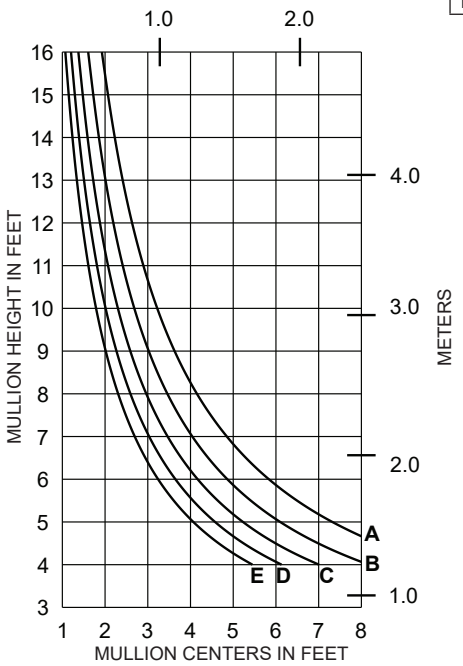
WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

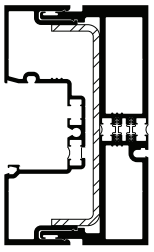
521TCG610 & 521TCG218
WITHOUT HORIZONTALS



	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 & 575300
WITH HORIZONTALS



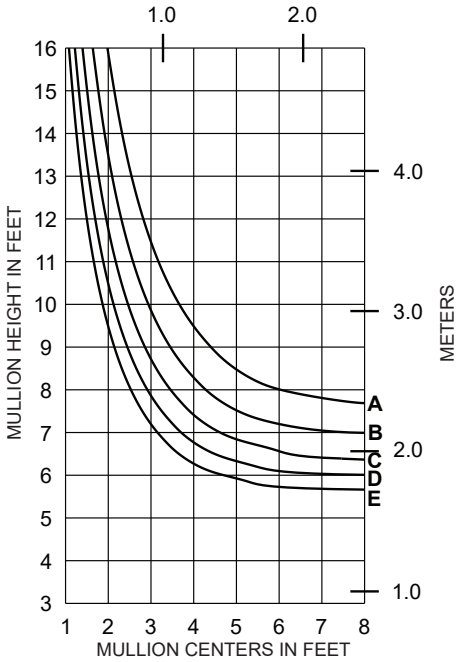


521TCG610 / 521TCG518
WITH 575300 STEEL
(IR 521T)

I_s = 1.684 in^4 (80.54 x 10^4 mm^4)
S_s = 0.804 in^3 (15.37 x 10^3 mm^3)

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

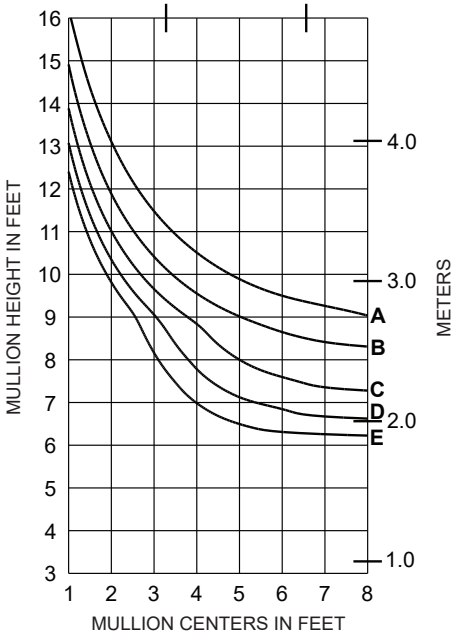
521TCG610 & 521TCG218 & 575300
WITHOUT HORIZONTALS

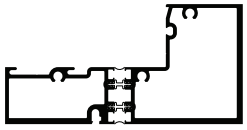


HURRICANE RESISTANT PRODUCT

	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)

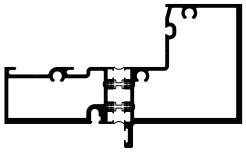
521TCG221





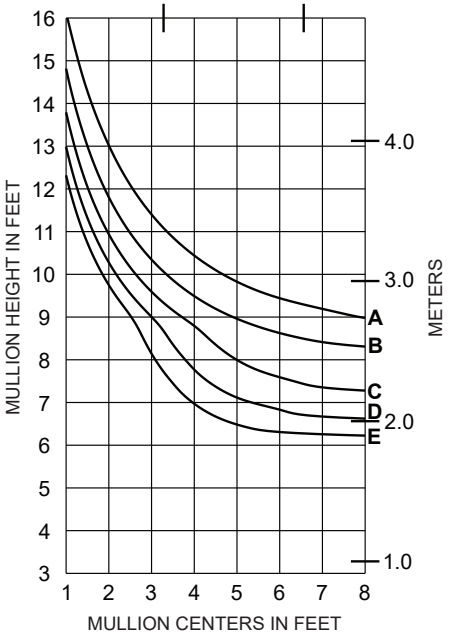
521TCG521
(IR 521T)

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

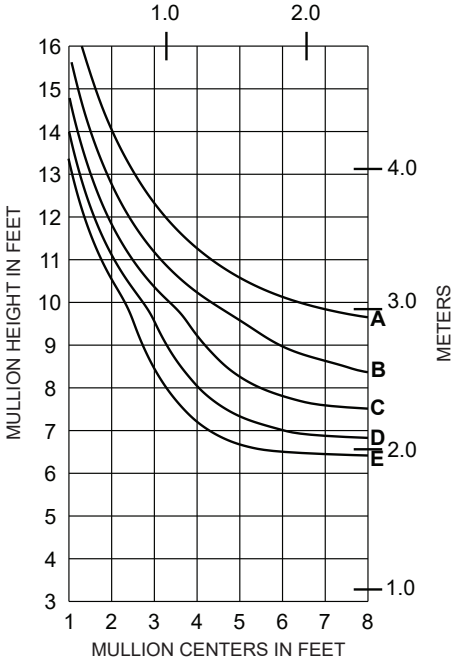


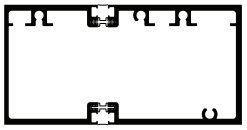
521TCG221
(IR 521T)

521TCG521



521TCG221





521TCG079
(IR 521T)

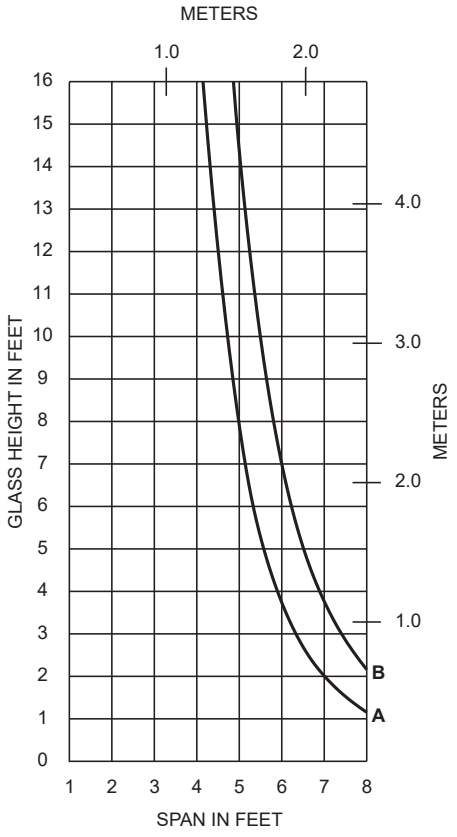
WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

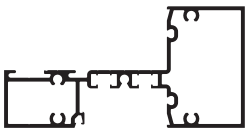
HURRICANE RESISTANT PRODUCT

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.

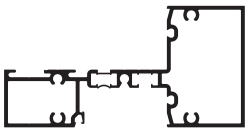
NOTE: Chart is for NON-THERMAL and THERMAL members.

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

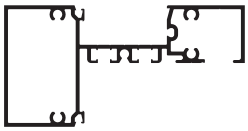




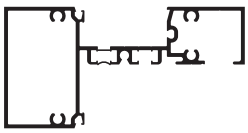
521CG011 (IR 521)



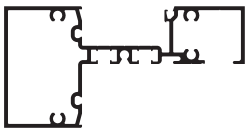
521TCG011 (IR 521T)



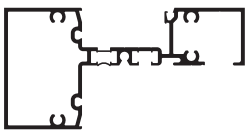
521CG311 (IR 521)



521TCG311 (IR 521T)



521CG111 (IR 521)



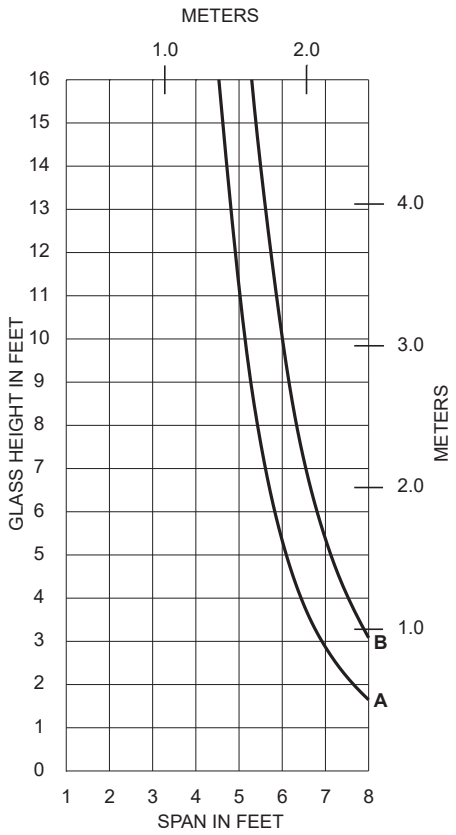
521TCG111 (IR 521T)

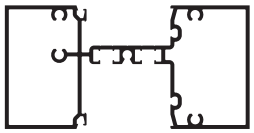
HURRICANE RESISTANT PRODUCT

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.

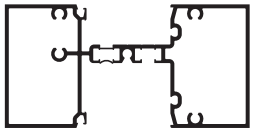
NOTE: Chart is for NON-THERMAL and THERMAL members.

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





521CG211 (IR 521)

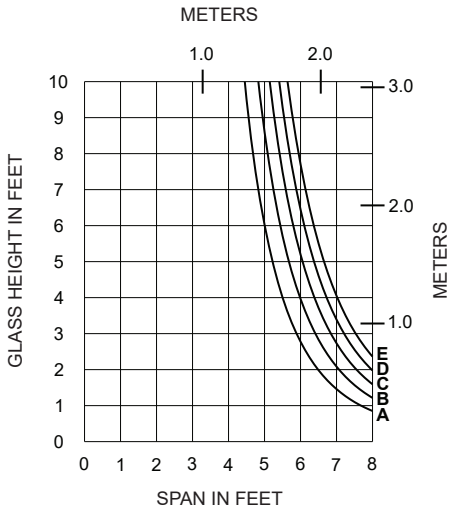


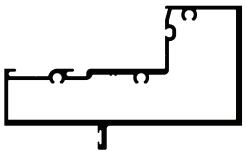
521TCG211 (IR 521T)

HURRICANE RESISTANT PRODUCT

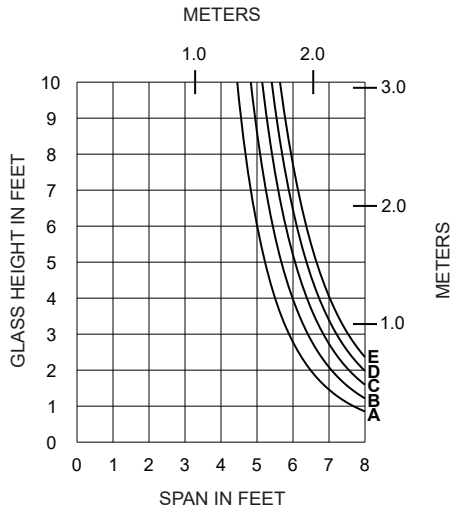
Horizontal or deadload limitations are based upon 1/16" (1.6), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1-5/16" (33.3) thick insulated impact resistant glass supported on two setting blocks placed at the loading points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

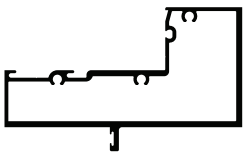
A = (1/4 POINT LOADING)
B = (1/6 POINT LOADING)
C = (1/8 POINT LOADING)
D = (1/10 POINT LOADING)
E = (1/12 POINT LOADING)





521CG020 (IR 521)





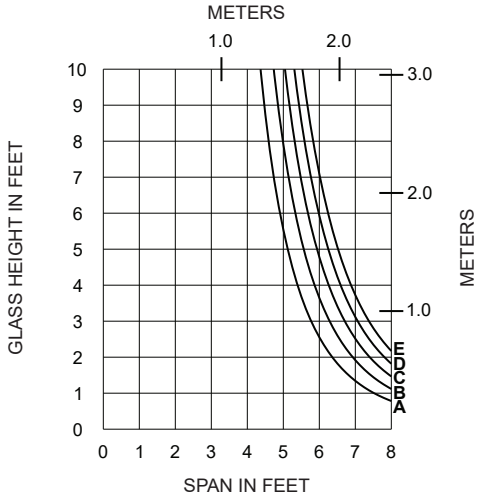
521CG120 (IR 521)

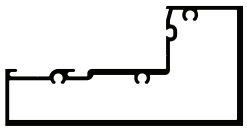
SETTING BLOCK LOCATIONS EXAMPLE (96" DLO)		
CURVE DESIGNATION	OFFSET	DISTANCE FROM JAMBS
A	1/4 POINT	24"
B	1/6 POINT	16"
C	1/8 POINT	12"
D	1/10 POINT	9"
E	1/12 POINT	8"

HURRICANE RESISTANT PRODUCT

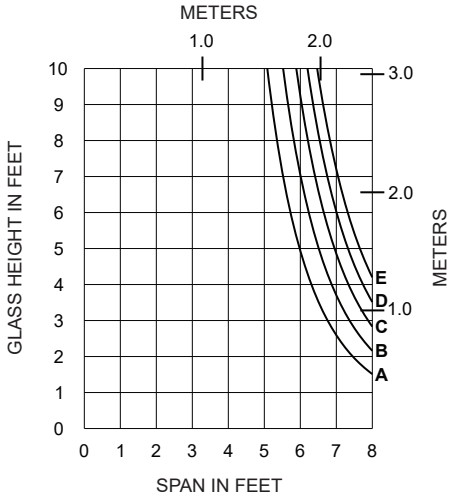
Horizontal or deadload limitations are based upon 1/16" (1.6), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1-5/16" (33.3) thick insulated impact resistant glass supported on two setting blocks placed at the loading points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

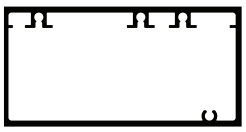
A = (1/4 POINT LOADING)
B = (1/6 POINT LOADING)
C = (1/8 POINT LOADING)
D = (1/10 POINT LOADING)
E = (1/12 POINT LOADING)





521CG320 (IR 521)





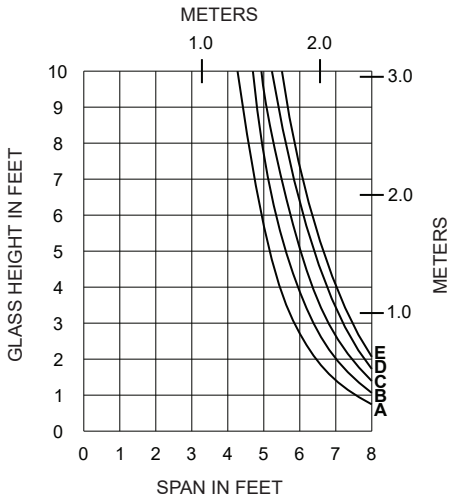
521CG079 (IR 521)

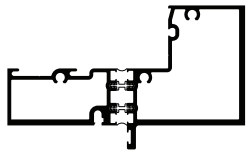
SETTING BLOCK LOCATIONS EXAMPLE (96" DLO)		
CURVE DESIGNATION	OFFSET	DISTANCE FROM JAMBS
A	1/4 POINT	24"
B	1/6 POINT	16"
C	1/8 POINT	12"
D	1/10 POINT	9"
E	1/12 POINT	8"

HURRICANE RESISTANT PRODUCT

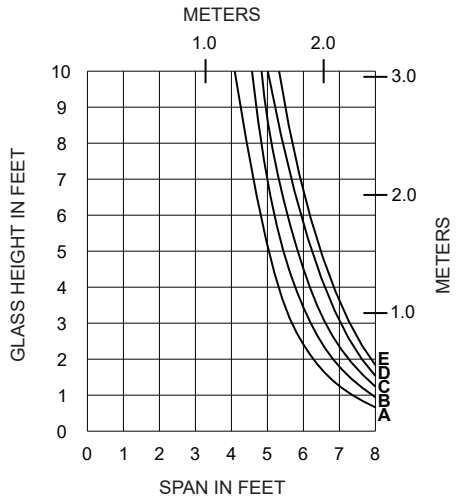
Horizontal or deadload limitations are based upon 1/16" (1.6), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1-5/16" (33.3) thick insulated impact resistant glass supported on two setting blocks placed at the loading points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

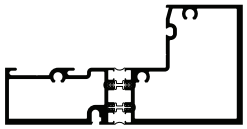
A = (1/4 POINT LOADING)
B = (1/6 POINT LOADING)
C = (1/8 POINT LOADING)
D = (1/10 POINT LOADING)
E = (1/12 POINT LOADING)





521TCG221 (IR 521T)





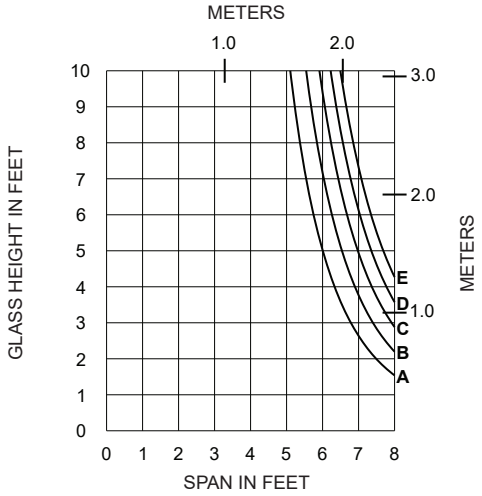
521TCG521 (IR 521T)

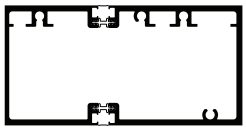
SETTING BLOCK LOCATIONS EXAMPLE (96" DLO)		
CURVE DESIGNATION	OFFSET	DISTANCE FROM JAMBS
A	1/4 POINT	24"
B	1/6 POINT	16"
C	1/8 POINT	12"
D	1/10 POINT	9"
E	1/12 POINT	8"

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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HURRICANE RESISTANT PRODUCT