EC 97911-330 FEATURES

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

Product Applications

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

For specific product applications, consult your Kawneer representative.





✓ HURRICANE RESISTANT PRODUCT

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SSS	7

FRAMING DETAILS - OUTSIDE GLAZED (WET)	4-8
FRAMING DETAILS - OUSIDE GLAZED (DRY)	9-13
FRAMING DETAILS - INSIDE GLAZED (WET)	. 14-18
FRAMING DETAILS - INIDE GLAZED (DRY)	. 19-23
ENTRANCE FRAMING DETAILS	24-25
WIND LOAD CHARTS	26-42
DEADLOAD CHARTS	43-48

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

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

m - meter

cm - centimeter

mm - millimeter

s - second

Pa - pascal

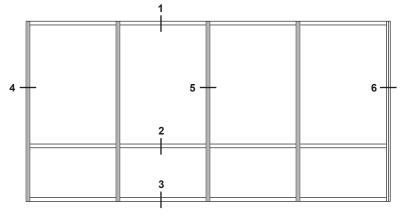
MPa - megapascal



HURRICANE RESISTANT PRODUCT

BASIC FRAMING DETAILS (Outside Glazed)

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



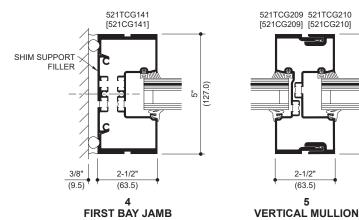


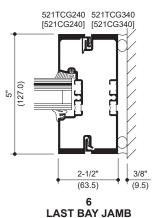
IR 521 IsoLock® **NON-THERMAL**



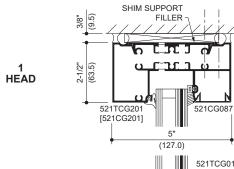
IR 521T Single IsoLock® THERMAL BREAK (SHOWN)

ELEVATION IS NUMBER KEYED TO DETAILS

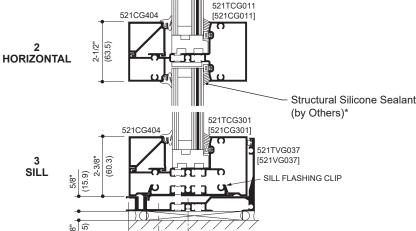




(127.0)



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.

2-1/2" (63.5)



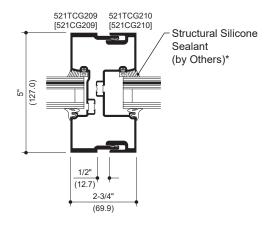
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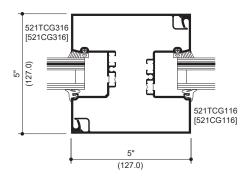
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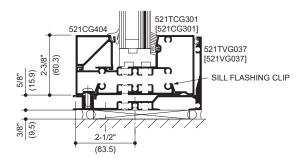
Additional information and CAD details are available at www.kawneer.com



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.

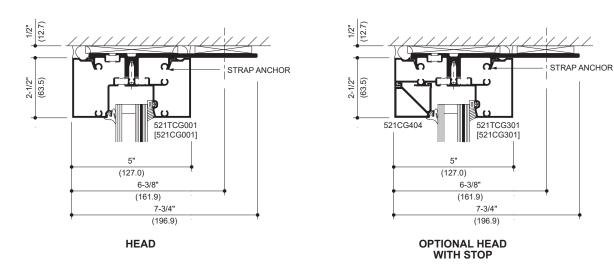


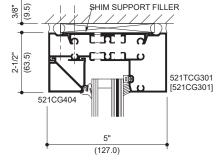
STRAP ANCHOR DETAILS (Outside Glazed)

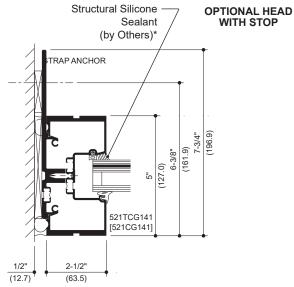
✓ HURRICANE RESISTANT PRODUCT

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

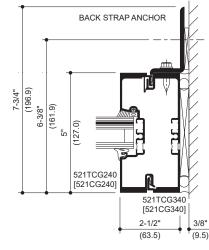
1-5/16" INFILL (PRE GLAZED - WET GLAZED)







FIRST BAY JAMB



LAST BAY JAMB

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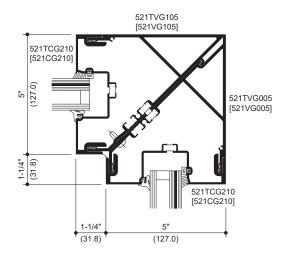
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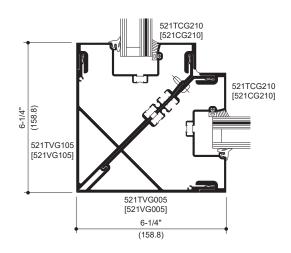
^{*} INSTALLER NOTE: Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

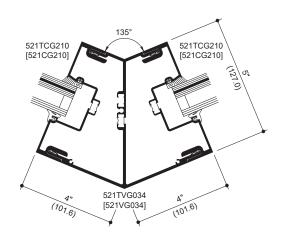
CORNER DETAILS (Outside Glazed) ✓ HURRICANE RESISTANT PRODUCT

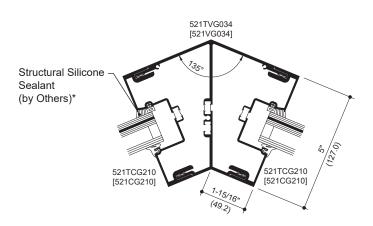
Additional information and CAD details are available at www.kawneer.com

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









KAWNEER

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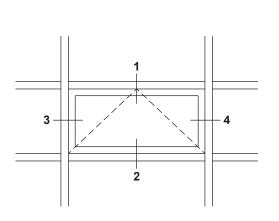
^{*} INSTALLER NOTE: Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

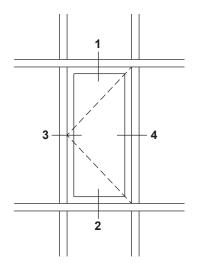
GLASSvent® UT WINDOWS (1" INFILL)

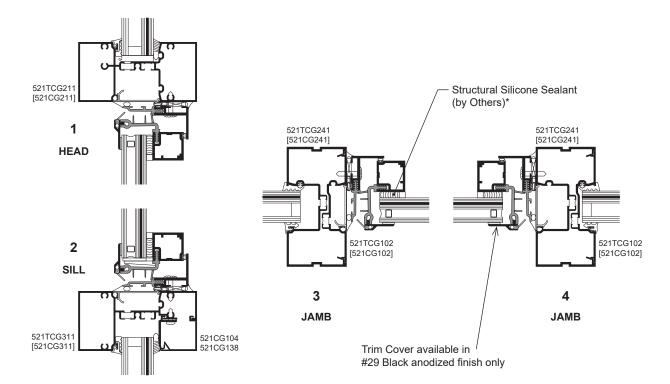
◆ HURRICANE RESISTANT PRODUCT

IR 521/521T Framing

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







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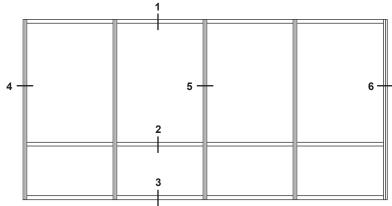
SHIM SUPPORT

3/8"

(9.5)

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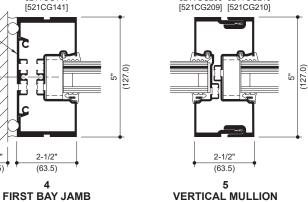


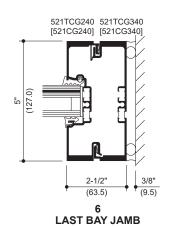
IR 521 IsoLock® **NON-THERMAL**

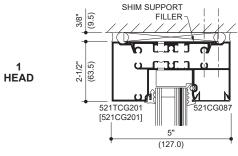


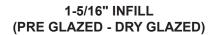
IR 521T Single IsoLock® THERMAL BREAK (SHOWN)

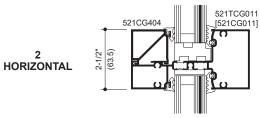
ELEVATION IS NUMBER KEYED TO DETAILS 521TCG141 521TCG209 521TCG210 [521CG141]

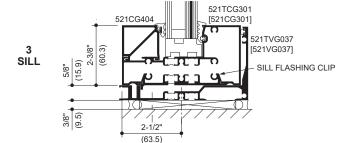








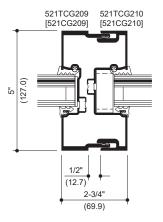




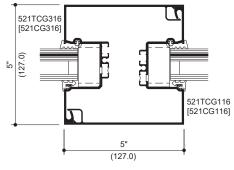
Additional information and CAD details are available at www.kawneer.com

MISCELLANEOUS DETAILS (Outside Glazed)

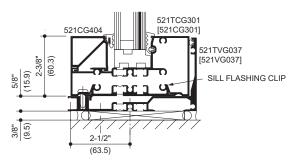
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



EXPANSION MULLION



5" x 5" MULLION



PINNED HORIZONTAL TO SILL FLASHING

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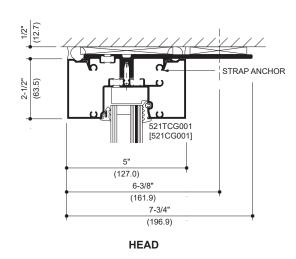


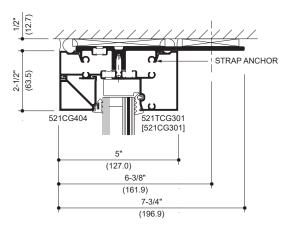
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STRAP ANCHOR DETAILS (Outside Glazed)

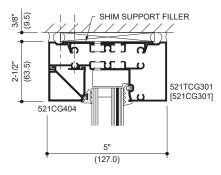
✓ HURRICANE RESISTANT PRODUCT

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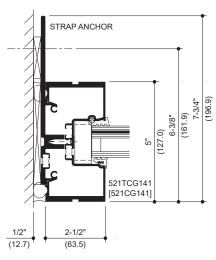




OPTIONAL HEAD WITH STOP



OPTIONAL HEAD WITH STOP



LAST BAY JAMB

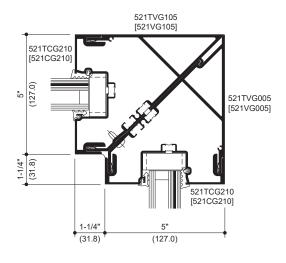
FIRST BAY JAMB

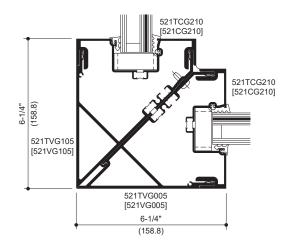


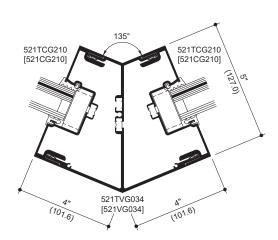
✓ HURRICANE RESISTANT PRODUCT

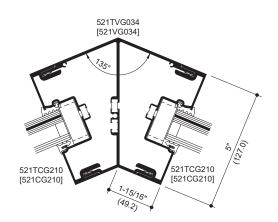
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1-5/16" INFILL (PRE GLAZED - DRY GLAZED)









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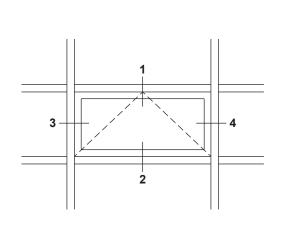
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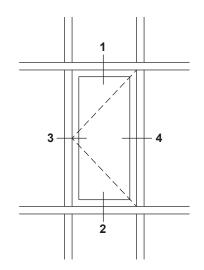
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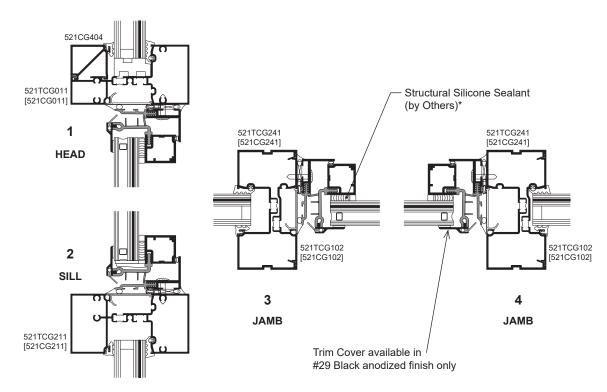
GLASSvent® UT WINDOWS (1" INFILL)

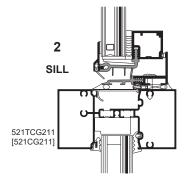
► HURRICANE RESISTANT PRODUCT

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









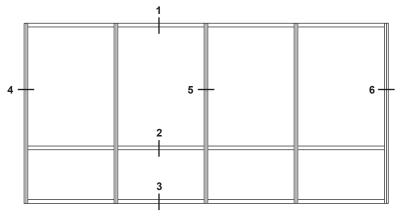
* INSTALLER NOTE: Installer is responsible for all required compatibility review and approvals with the Structural Silicone, Structural Glazing Tape, and Insulating Glass Unit Manufacturers.



HURRICANE RESISTANT PRODUCT

BASIC FRAMING DETAILS (Inside Glazed)

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



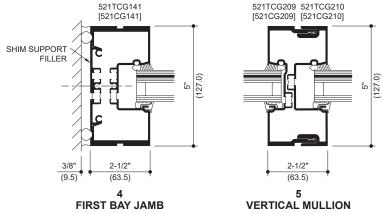


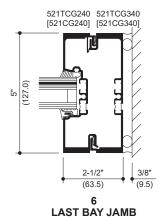
IR 521 IsoLock® **NON-THERMAL**

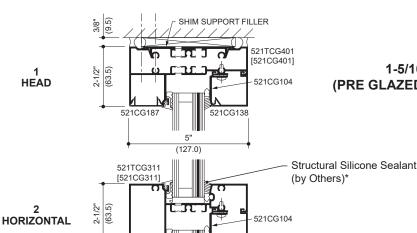


IR 521T Single IsoLock® THERMAL BREAK (SHOWN)

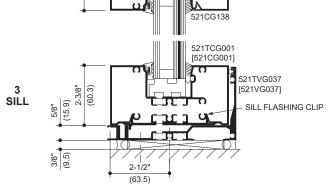
ELEVATION IS NUMBER KEYED TO DETAILS







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



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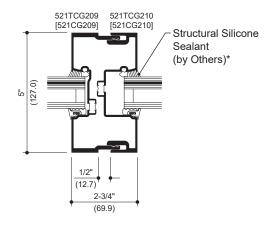


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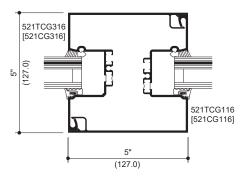
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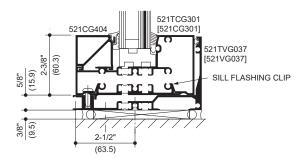
MISCELLANEOUS DETAILS (Inside Glazed)



EXPANSION MULLION



5" x 5" MULLION



PINNED HORIZONTAL TO **SILL FLASHING**

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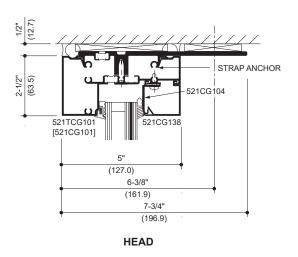
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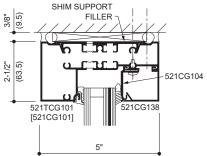
STRAP ANCHOR DETAILS (Inside Glazed)

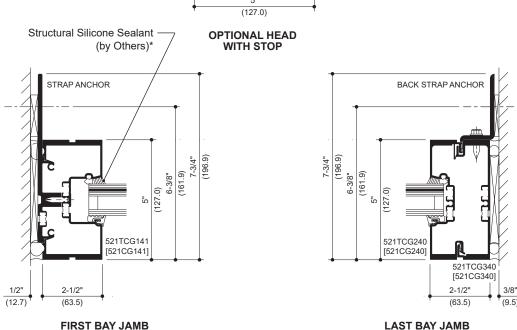
✓ HURRICANE RESISTANT PRODUCT

IR 521/521T Framing

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





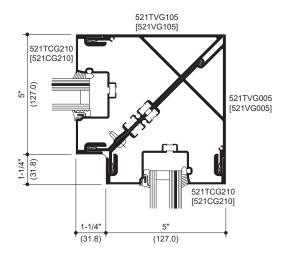


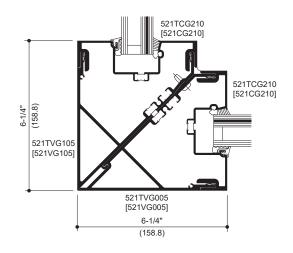
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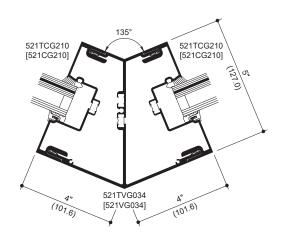


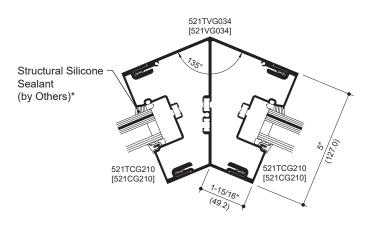
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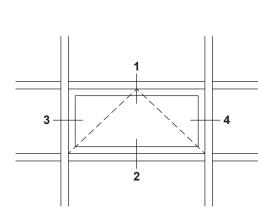


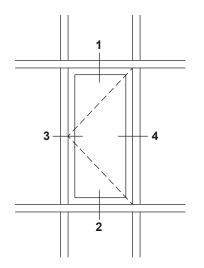
GLASSvent® UT WINDOWS (1" INFILL)

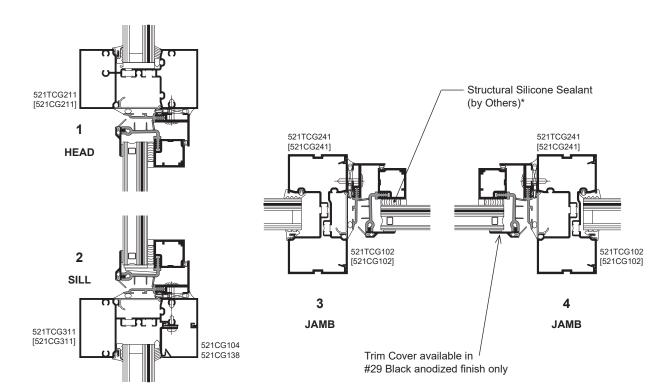
◆ HURRICANE RESISTANT PRODUCT

IR 521/521T Framing

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







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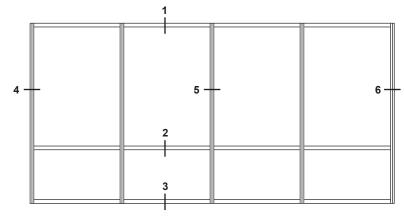
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✓ HURRICANE RESISTANT PRODUCT

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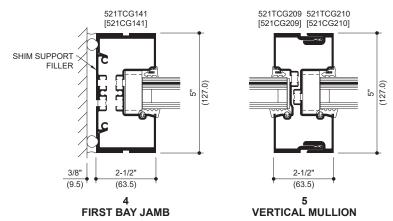


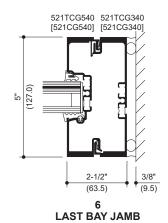
IR 521 IsoLock® **NON-THERMAL**

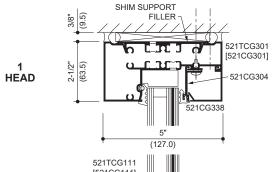


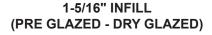
IR 521T Single IsoLock® THERMAL BREAK (SHOWN)

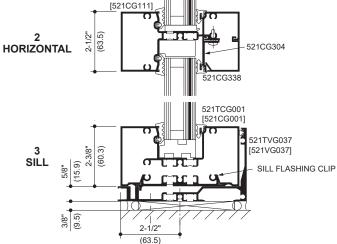
ELEVATION IS NUMBER KEYED TO DETAILS









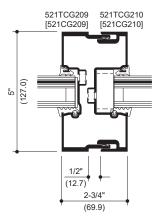




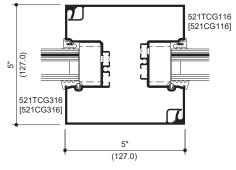
MISCELLANEOUS DETAILS (Inside Glazed)

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

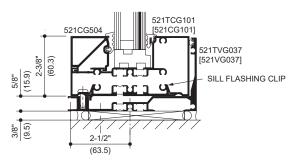
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



EXPANSION MULLION



5" x 5" MULLION



PINNED HORIZONTAL TO SILL FLASHING

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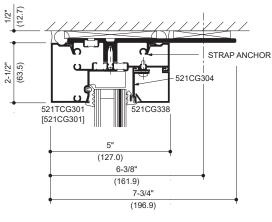
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STRAP ANCHOR DETAILS (Inside Glazed)

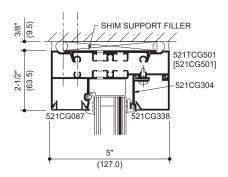
HURRICANE RESISTANT PRODUCT

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

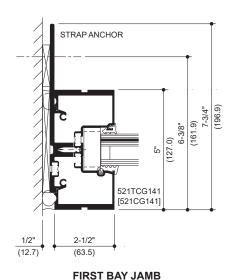
1-5/16" INFILL (PRE GLAZED - DRY GLAZED)



HEAD



OPTIONAL HEAD WITH STOP



BACK STRAP ANCHOR 7-3/4" (196.9)(161.9) 6-3/8" (127.0)521TCG540 521TCG340 [521CG340] 2-1/2" 3/8"

LAST BAY JAMB

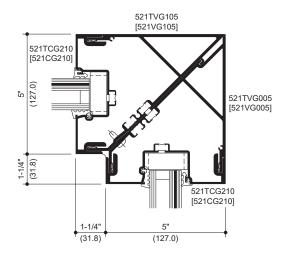
KAWNEER

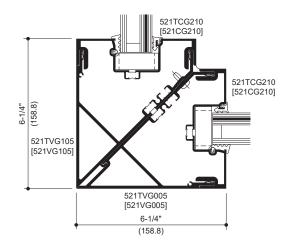


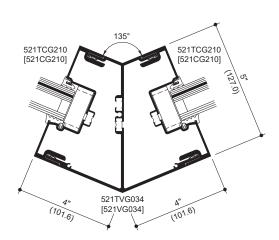
► HURRICANE RESISTANT PRODUCT

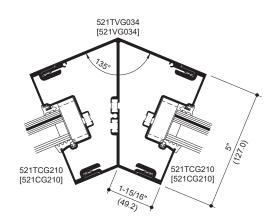
Additional information and CAD details are available at www.kawneer.com

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









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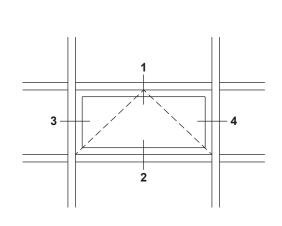
Laws and building and safety codes governing the design and use of Kawneer products, such as glazade antrannee, window, and ourfain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

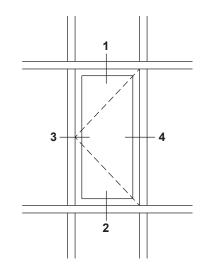


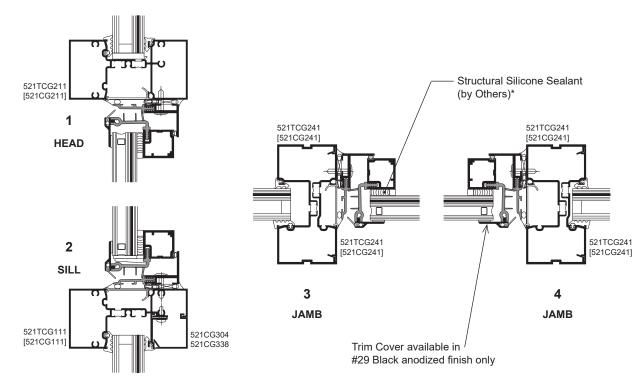
GLASSvent® UT WINDOWS (1" INFILL)

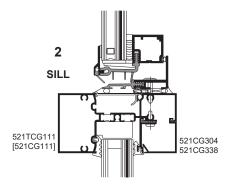
► HURRICANE RESISTANT PRODUCT

1-5/16" INFILL (PRE 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.

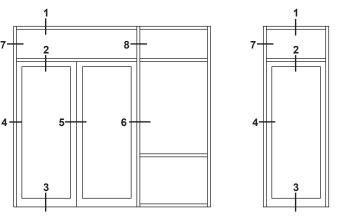


✓ HURRICANE RESISTANT PRODUCT

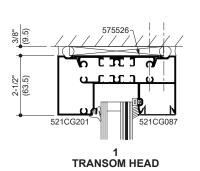
Additional information and CAD details are available at www.kawneer.com

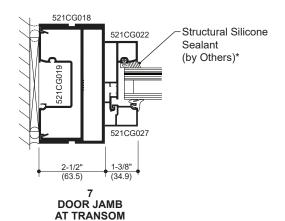
IR521 NON-THERMAL ENTRANCE FRAMING

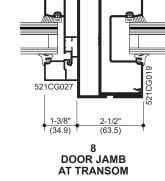
IR 521 FRAMING INCORPORATING KAWNEER 350 IR DOORS. SEE 350/500 IR ENTRANCES FOR ADDITIONAL DOOR AND ENTRANCE FRAMING OPTIONS.



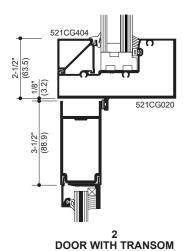
ELEVATION IS NUMBER KEYED TO DETAILS



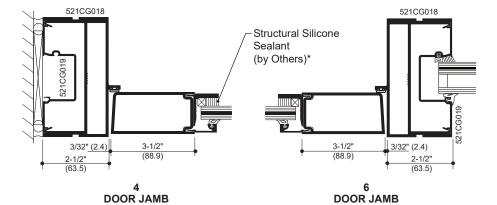




521CG018



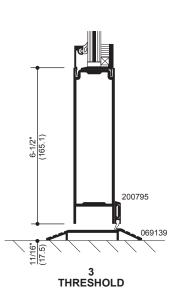
Transom for C.O.C. also available



(3.2)

5 PAIR OF DOORS

(88.9)



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

KAWNEER

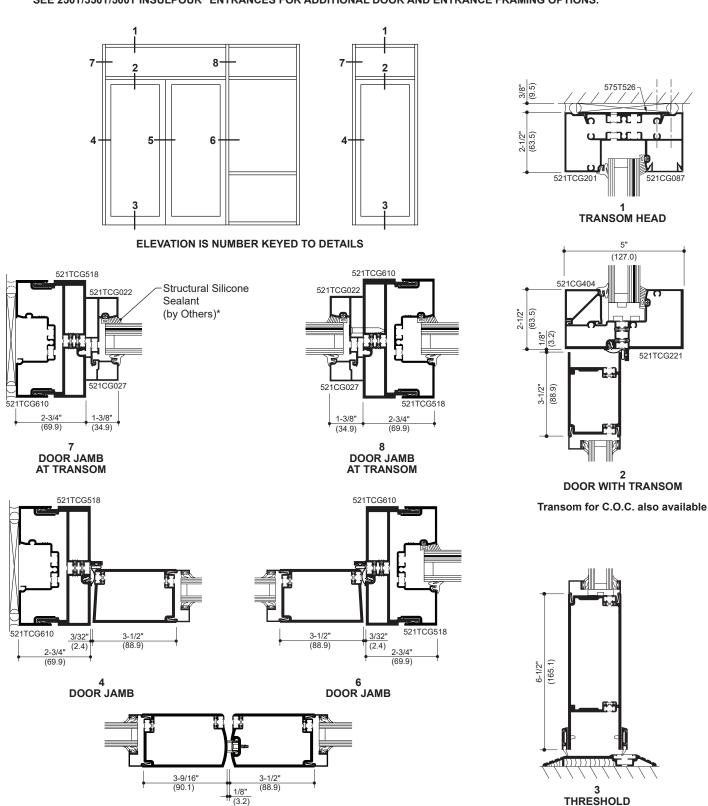
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Additional information and CAD details are available at www.kawneer.com

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



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

PAIR OF DOORS



✓ HURRICANE RESISTANT PRODUCT

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.

nd safety codes governing the design and use of Kawneer zaced entrance, window, and curfain wall products, vary widely, ontrol the selection of product configurations, operating materials, and assumes no responsibility therefor.

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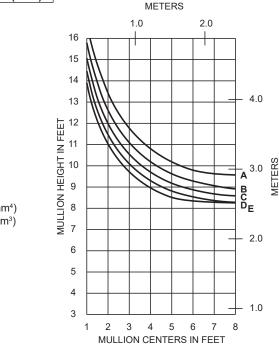
WIND LOAD CHARTS

HURRICANE RESISTANT PRODUCT

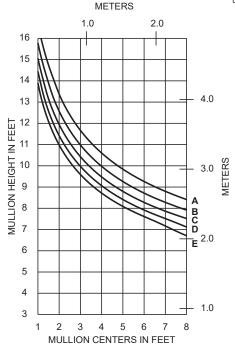
	Allowable Stress	LRFD Ultimate
	Design Load	Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
F=	90 PSF (4310)	150 PSF (7200)

90 PSF (4310) | 150 PSF (7200)





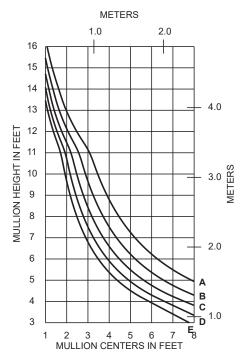
WITH HORIZONTALS





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

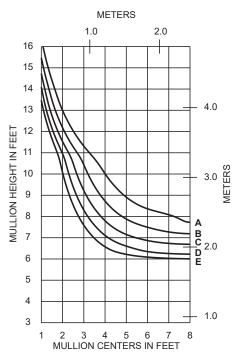
WITH HORIZONTALS





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

WITHOUT HORIZONTALS



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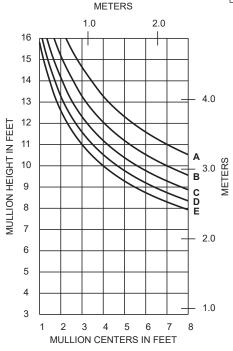
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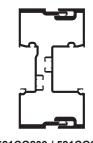
KAWNEER



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

WITH HORIZONTALS

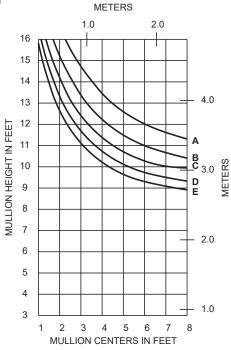




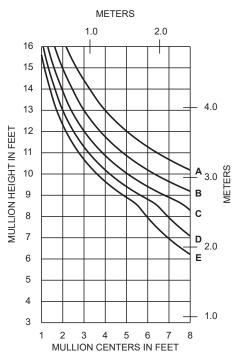
521CG209 / 521CG210 (IR 521)

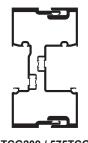
 $I_A = 9.421 \text{ in}^4 \text{ (392.13 x } 10^4 \text{ mm}^4\text{)}$ $S_A = 3.754 \text{ in}^3 \text{ (61.52 x } 10^3 \text{ mm}^3\text{)}$

WITHOUT HORIZONTALS



WITH HORIZONTALS

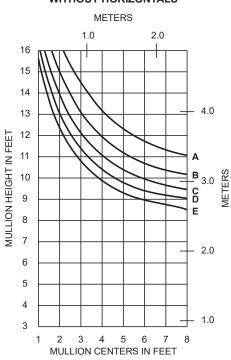




575TCG209 / 575TCG210 (IR 521T)

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

WITHOUT HORIZONTALS





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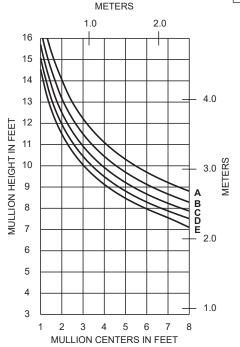
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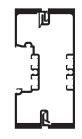
HURRICANE RESISTANT PRODUCT

EC 97911-330

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

WITH HORIZONTALS

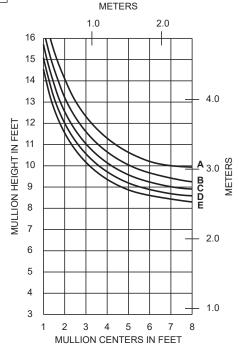




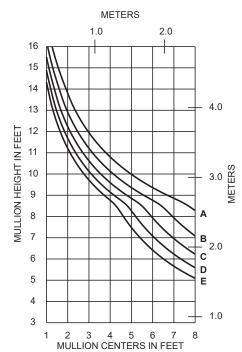
521CG240 / 521CG340 (IR 521)

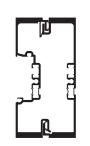
 $I_A = 9.206 \text{ in}^4 (383.18 \times 10^4 \text{ mm}^4)$ $\hat{S}_A = 3.611 \text{ in}^3 (59.17 \times 10^3 \text{ mm}^3)$

WITHOUT HORIZONTALS



WITH HORIZONTALS

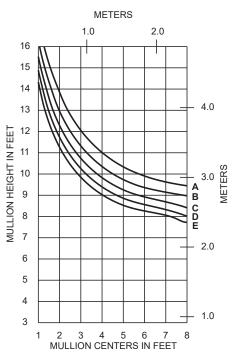




521TCG240 / 521TCG340 (IR 521T)

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

WITHOUT HORIZONTALS



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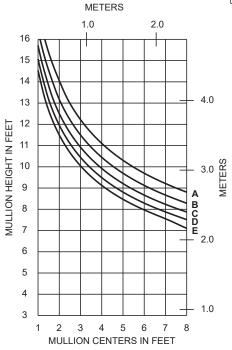
KAWNEER

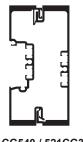
EC 97911-330

✓ HURRICANE RESISTANT PRODUCT

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

WITH HORIZONTALS

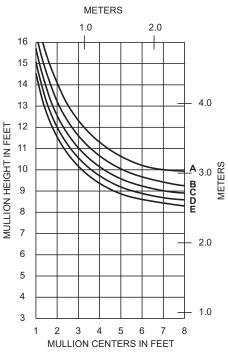




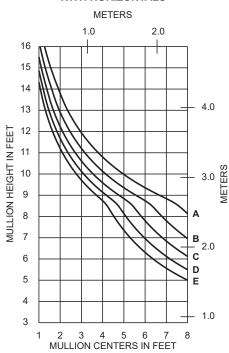
521CG540 / 521CG340 (IR 521)

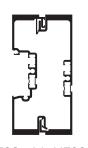
 $I_A = 9.206 \text{ in}^4 \text{ (383.18 x } 10^4 \text{ mm}^4\text{)}$ $S_A = 3.612 \text{ in}^3 \text{ (59.19 x } 10^3 \text{ mm}^3\text{)}$

WITHOUT HORIZONTALS



WITH HORIZONTALS

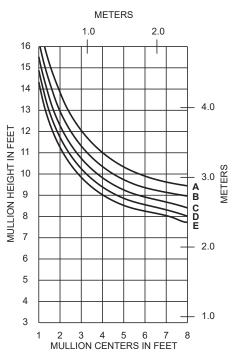




521TCG540 / 521TCG340 (IR 521T)

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

WITHOUT HORIZONTALS



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ADMC094EN

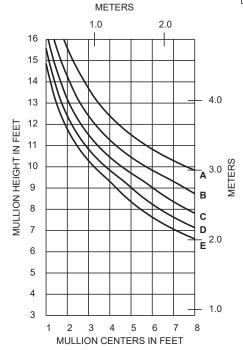
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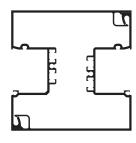
WIND LOAD CHARTS

HURRICANE RESISTANT PRODUCT

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

521CG316 & 521CG116 WITH HORIZONTALS

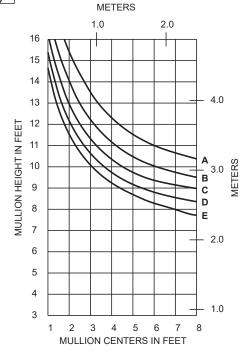




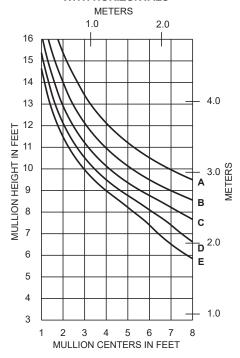
521CG316 / 521CG116 (IR 521)

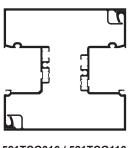
= 7.693 in⁴ (320.21 x 10⁴ mm⁴) $\hat{S}_{\Delta} = 2.422 \text{ in}^3 (39.69 \times 10^3 \text{ mm}^3)$

521CG316 & 521CG116 WITHOUT HORIZONTALS



521CGT316 & 521TCG116 WITH HORIZONTALS

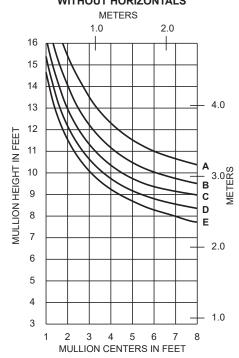




521TCG316 / 521TCG116 (IR 521T)

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

521TCG316 & 521TCG116 WITHOUT HORIZONTALS



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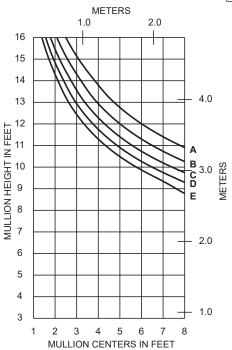
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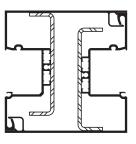
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✓ HURRICANE RESISTANT PRODUCT

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

521TCG316 & 521TCG116 WITH HORIZONTALS

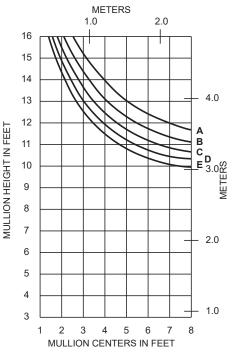




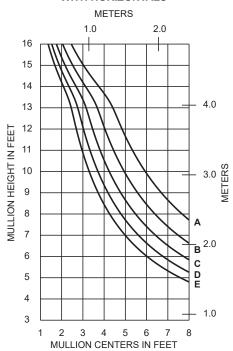
521CG316 / 521CG116 with 575300 STEEL (IR 521)

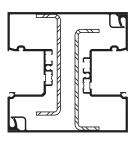
= 7.693 in4 (320.21 x 104 mm4) = 2.422 in³ (39.69 x 10³ mm³) = 3.368 in⁴ (140.19 x 10⁴ mm⁴) = $1.608 \text{ in}^3 (26.35 \times 10^3 \text{ mm}^3)$

521TCG316 & 521TCG116 WITHOUT HORIZONTALS **METERS**



WITH HORIZONTALS



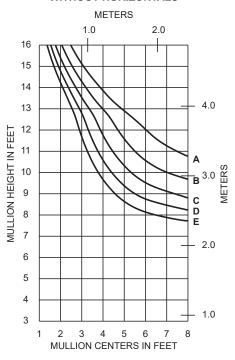


521TCG316 / 521TCG116 **WITH 575300 STEEL** (IR 521T)

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

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

WITHOUT HORIZONTALS





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16

15

14

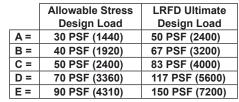
WIND LOAD CHARTS

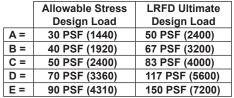
521TCG011

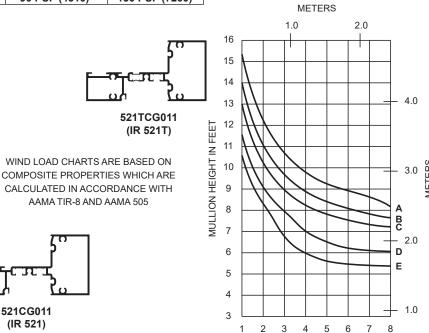
SINGLE SPAN

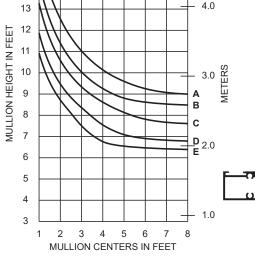
MULLION CENTERS IN FEET

HURRICANE RESISTANT PRODUCT









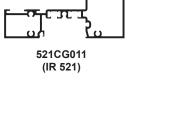
521CG011

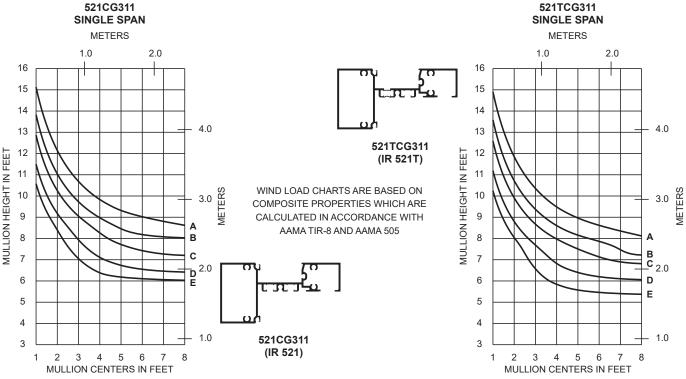
SINGLE SPAN

METERS

2.0

1.0





ADMC094EN



kawneer.com

8

4.0

3.0

В

С

D Е

2.0

METERS

7

WIND LOAD CHARTS

EC 97911-330

✓ HURRICANE RESISTANT PRODUCT

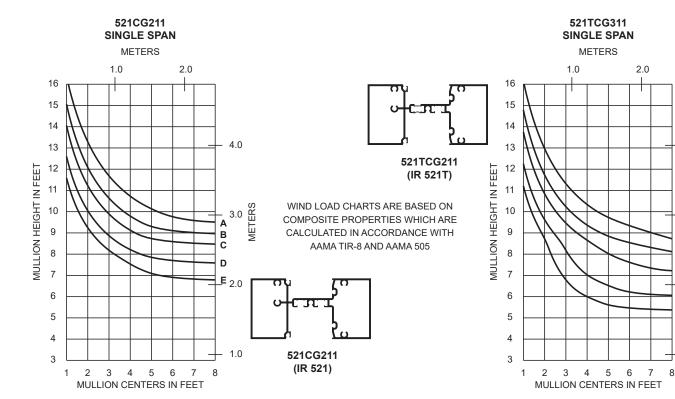
8

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521CG11 SINGLE SI METERS	PAN	Allowable Stress Design Load A = 30 PSF (1440) B = 40 PSF (1920) C = 50 PSF (2400) D = 70 PSF (3360) E = 90 PSF (4310)	LRFD Ultimate Design Load 50 PSF (2400) 67 PSF (3200) 83 PSF (4000) 117 PSF (5600) 150 PSF (7200)		521TC SINGLE METE	SPAN	
1.0 16 15 14 13 11 11 11 11 11 11 10 11 10 11 10 1	2.0 4.0 A B C C D 2.0	WIND LOAD CHARTS A COMPOSITE PROPERTI CALCULATED IN ACCO AAMA TIR-8 AND	IES WHICH ARE RDANCE WITH	16 15 14 13 11 11 10 10 8 7 6 5	1.0	2.0	3.0 SWELEW A B C 2.0 D E
4	1.0	521CG111		4			1.0

2 3 4 5 6

MULLION CENTERS IN FEET



(IR 521)

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

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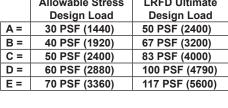
© 2024, Kawneer Company, Inc.

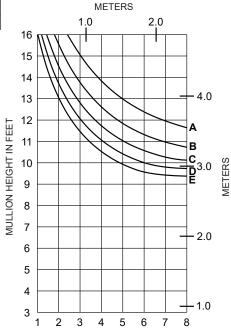
2 3 4 5 6

MULLION CENTERS IN FEET

HURRICANE RESISTANT PRODUCT

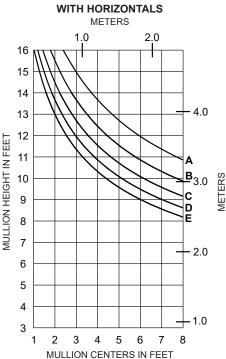
	Allowable Stress	LRFD Ultimate
	Design Load	Design Load
A =	30 PSF (1440)	50 PSF (2400)
B =	40 PSF (1920)	67 PSF (3200)
C =	50 PSF (2400)	83 PSF (4000)
D =	60 PSF (2880)	100 PSF (4790)
E =	70 PSF (3360)	117 PSF (5600)

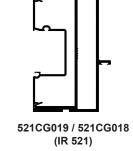




MULLION CENTERS IN FEET

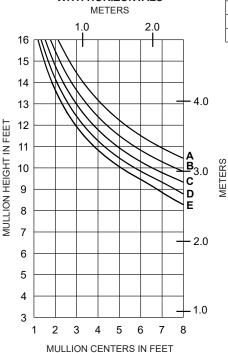
WITHOUT HORIZONTALS





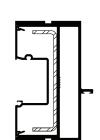
 $I_A = 10.060 \text{ in}^4 (418.73 \times 10^4 \text{ mm}^4)$ $\hat{S}_{\Delta} = 3.958 \text{ in}^3 (64.86 \times 10^3 \text{ mm}^3)$

WITH HORIZONTALS **METERS**



	Allowable offess	Litt D Oitilliate
	Design Load	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)
•		

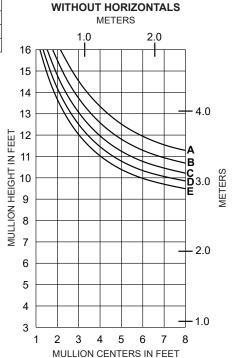
Allowable Stress | LRFD Ultimate



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

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

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

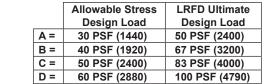


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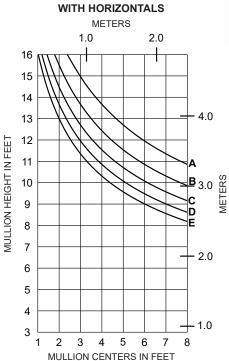
HURRICANE RESISTANT PRODUCT

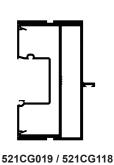
E =



117 PSF (5600)

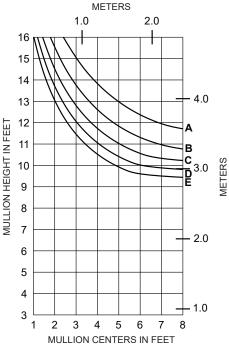
70 PSF (3360)





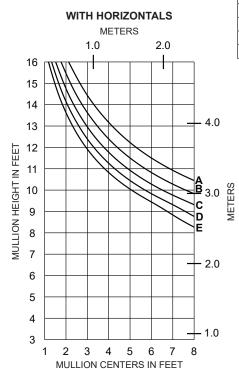
(IR 521) $I_A = 10.060 \text{ in}^4 (418.73 \text{ x } 10^4 \text{ mm}^4)$

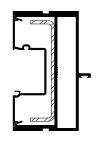
 $\hat{S}_{\Delta} = 3.952 \text{ in}^3 (64.50 \text{ x } 10^3 \text{ mm}^3)$



WITHOUT HORIZONTALS

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

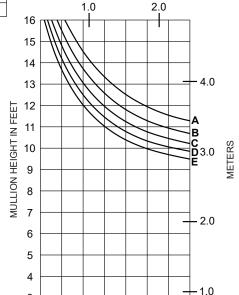




521CG019 / 521CG118 **WITH 575300 STEEL** (IR 521)

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

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



5 6

MULLION CENTERS IN FEET

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WITHOUT HORIZONTALS

METERS

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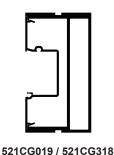
WIND LOAD CHARTS

HURRICANE RESISTANT PRODUCT

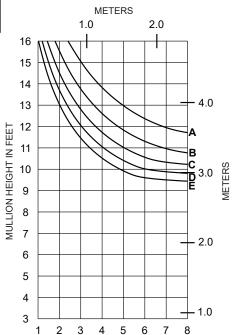
EC 97911-330

WITH HORIZONTALS **METERS** 1.0 2.0 16 15 14 4.0 13 12 MULLION HEIGHT IN FEET 11 **B**_{3.0} METERS 10 9 8 7 2.0 6 5 4 1.0 3 3 4 5 6 7

	Allowable Stress	LRFD Ultimate
	Design Load	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)



(IR 521) $I_A = 10.040 \text{ in}^4 (417.89 \times 10^4 \text{ mm}^4)$ $\hat{S}_{\Delta} = 3.923 \text{ in}^3 (64.29 \text{ x } 10^3 \text{ mm}^3)$



WITHOUT HORIZONTALS

WITH HORIZONTALS

MULLION CENTERS IN FEET

METERS 1.0 2.0 16 15 14 4.0 13 MULLION HEIGHT IN FEET 12 11 METERS 10 3.0 9 Ε 8 7 2.0 6 5 4 1.0 3 3 5 7 2 4 6 MULLION CENTERS IN FEET

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

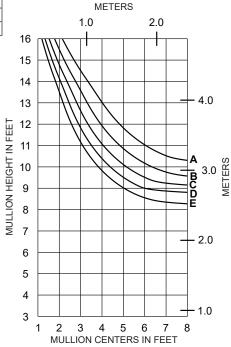
521CG019 / 521CG318 **WITH 575300 STEEL** (IR 521)

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

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

WITHOUT HORIZONTALS

MULLION CENTERS IN FEET



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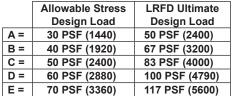
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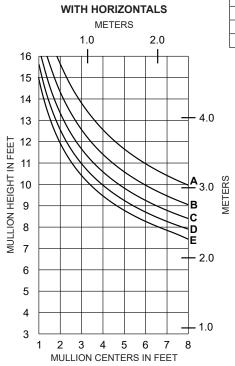
Laws and building and safety codes governing the design and use of Kawneer products, such as glazade antrance, window, and ourfain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

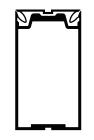


WIND LOAD CHARTS

✔ HURRICANE RESISTANT PRODUCT



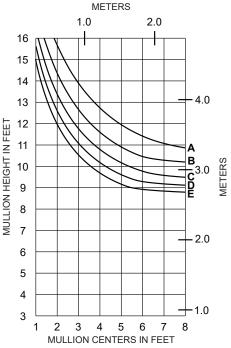




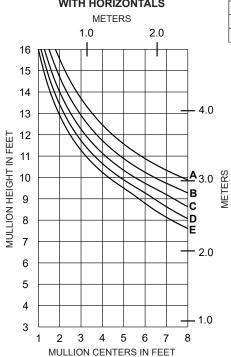
521CG264 / 521CG064 (IR 521)

 $I_{\Delta} = 7.761 \text{ in}^4 (323.04 \text{ x } 10^4 \text{ mm}^4)$ $\hat{S}_x = 3.079 \text{ in}^3 (50.46 \text{ x } 10^3 \text{ mm}^3)$

WITHOUT HORIZONTALS



WITH HORIZONTALS

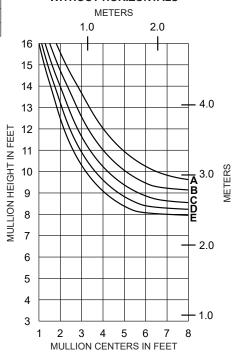


	Allowable Stress	LRFD Ultimate	
	Design Load	Design Load	
A =	50 PSF (2400)	83 PSF (4000)	
B =	60 PSF (2880)	100 PSF (4790)	
C =	70 PSF (3360)	117 PSF (5600)	
D =	80 PSF (3830)	133 PSF (6380)	
E=	90 PSF (4310)	150 PSF (7200)	

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

 $I_{\Delta} = 7.761 \text{ in}^4 (323.04 \text{ x } 10^4 \text{ mm}^4)$ $\hat{S}_A = 3.079 \text{ in}^3 (50.46 \times 10^3 \text{ mm}^3)$ $I_s = 1.684 \text{ in}^4 (80.54 \text{ x } 10^4 \text{ mm}^4)$ $S_s = 0.804 \text{ in}^3 (15.37 \text{ x } 10^3 \text{ mm}^3)$

WITHOUT HORIZONTALS





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521CG120 SINGLE SPAN **METERS**

✓ HURRICANE RESISTANT PRODUCT

EC 97911-330

16

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MULLION HEIGHT IN FEET

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thout prior notice when deemed	
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			Allowable Stress	LRFD Ultimate
			Design Load	Design Load
		A =	30 PSF (1440)	50 PSF (2400)
521CG0)20	B =	40 PSF (1920)	67 PSF (3200)
SINGLE S	SPAN	C =	50 PSF (2400)	83 PSF (4000)
METER	rs.	D =	60 PSF (2880)	100 PSF (4790)
1.0	2.0	E =	70 PSF (3360)	117 PSF (5600)

4.0

3.0

2.0

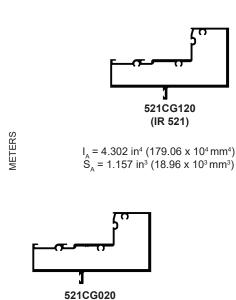
+ 1.0

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MULLION CENTERS IN FEET

В

С D



2.0 1.0 16 15 14 4.0 13 12 MULLION HEIGHT IN FEET 11 METERS 10 3.0 9 В CD 8 7 2.0 6 5 4 ___1.0 3 2 3 4 5 6 7 8

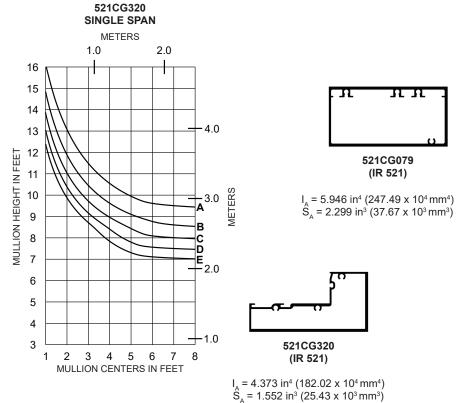
MULLION CENTERS IN FEET

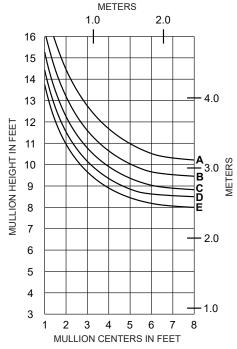
521CG079

SINGLE SPAN

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

(IR 521)







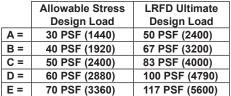
kawneer.com

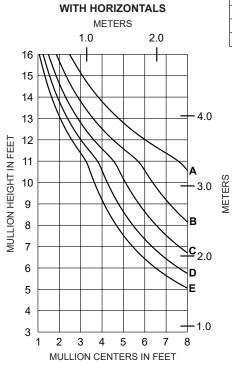
ADMC094EN

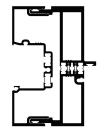
WIND LOAD CHARTS

✔ HURRICANE RESISTANT PRODUCT

IR 521/521T Framing



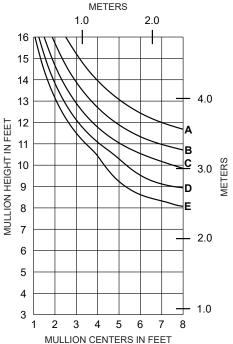




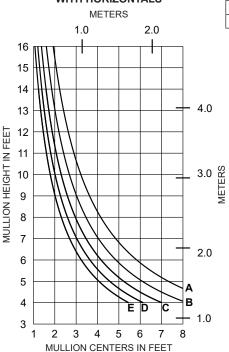
521TCG610 / 521TCG218 (IR 521T)

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

WITHOUT HORIZONTALS



WITH HORIZONTALS



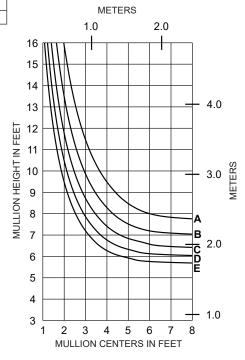
	Allowable Stress	LRFD Ultimate
	Design Load	Design Load
A =	50 PSF (2400)	83 PSF (4000)
B =	60 PSF (2880)	100 PSF (4790)
C =	70 PSF (3360)	117 PSF (5600)
D =	80 PSF (3830)	133 PSF (6380)
E =	90 PSF (4310)	150 PSF (7200)

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

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

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

WITHOUT HORIZONTALS



KAWNEER

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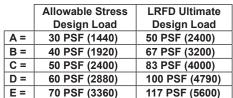
d building and safety codes governing the design and use of Kawneer, such as glazed entrance, window, and curtain wall products, vary widely, does not control the selection of product configurations, operating ., or glazing materials, and assumes no responsibility therefor.

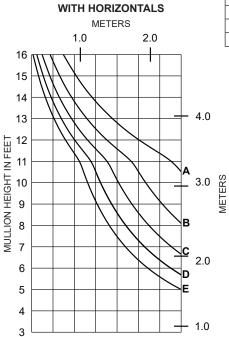
-aws and building and safety codes governing the

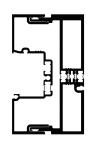
EC 97911-330

WIND LOAD CHARTS

HURRICANE RESISTANT PRODUCT

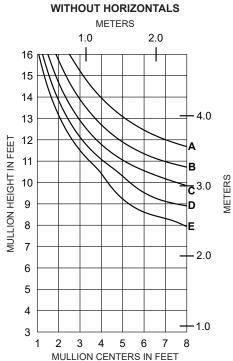






521TCG264 / 521TCG064 (IR 521T)

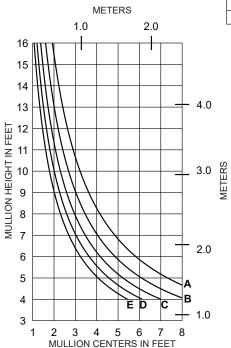
WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

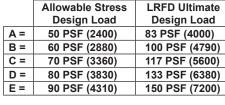


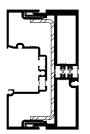
WITH HORIZONTALS

MULLION CENTERS IN FEET

3 4 5 6 7 8





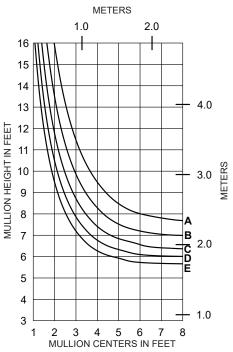


521TCG610 / 521TCG518 **WITH 575300 STEEL** (IR 521T)

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

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

WITHOUT HORIZONTALS





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MULLION CENTERS IN FEET

5 6 7

MULLION HEIGHT IN FEE'

WIND LOAD CHARTS

EC 97911-330

HURRICANE RESISTANT PRODUCT

4.0

3.0

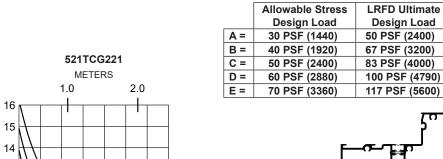
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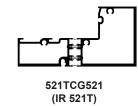
□2.0

-1.0

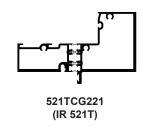
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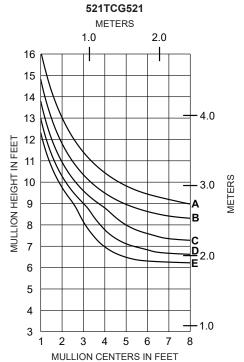
METERS

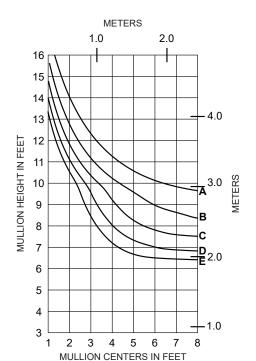


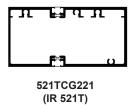


WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505









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

KAWNEER

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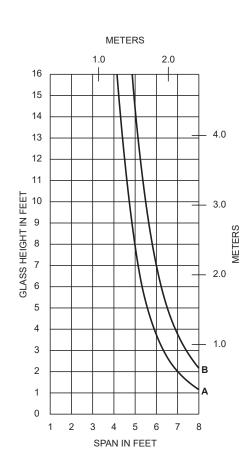
IR 521/521T Framing

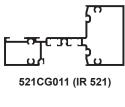
HURRICANE RESISTANT PRODUCT

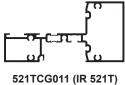
Horizontal or deadload limitations are based upon 1/8" (3.2), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1-5/16" (33.3) thick insulated impact resistant glass supported on two setting blocks placed at the loading points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

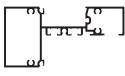
NOTE: Chart is for NON-THERMAL and THERMAL members.

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

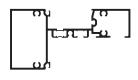




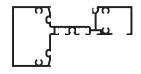




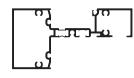
521CG311 (IR 521)



521TCG311 (IR 521T)



521CG111 (IR 521)



521TCG111 (IR 521T)

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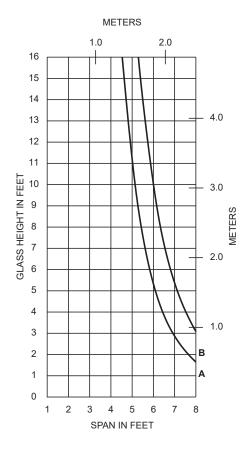
HURRICANE RESISTANT PRODUCT

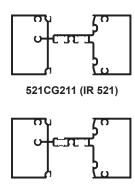
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NOTE: Chart is for NON-THERMAL and THERMAL members.

DEADLOAD CHARTS

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





521TCG211 (IR 521T)

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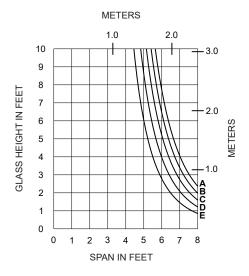
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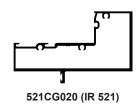
DEADLOAD CHARTS

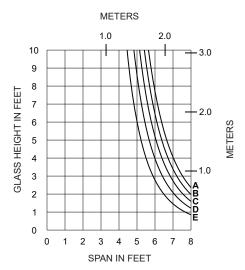
HURRICANE RESISTANT PRODUCT

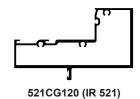
Horizontal or deadload limitations are based upon 1/16" (1.6), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1-5/16" (33.3) thick insulated impact resistant glass supported on two setting blocks placed at the loading points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

> 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)









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



EC 97911-330

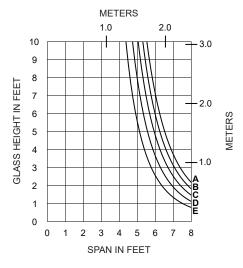
© 2024, Kawneer Company, Inc.

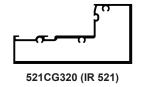
✓ HURRICANE RESISTANT PRODUCT

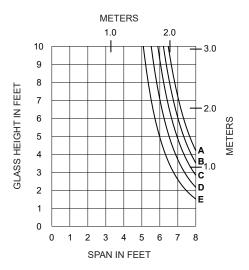
IR 521/521T Framing

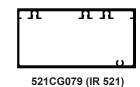
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> A = (1/4 POINT LOADING) B = (1/6 POINT LOADING) C = (1/8 POINT LOADING) D = (1/10 POINT LOADING)E = (1/12 POINT LOADING)









SETTING BLOCK LOCATIONS EXAMPLE (96" DLO)			
CURVE DESIGNATION OFFSET DISTANCE FRO			
A	1/4 POINT	24"	
В	1/6 POINT	16"	
С	1/8 POINT	12"	
D	1/10 POINT	9"	
Е	1/12 POINT	8"	



EC 97911-330

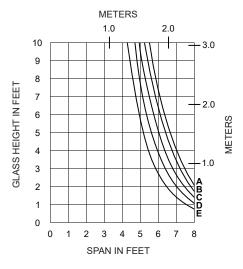
IR 521/521T Framing

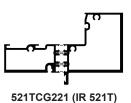
DEADLOAD CHARTS

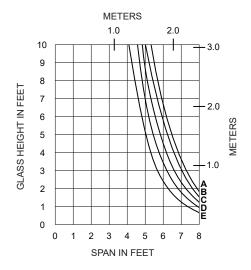
✓ HURRICANE RESISTANT PRODUCT

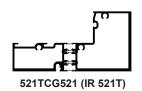
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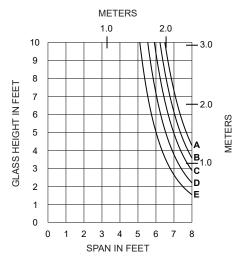
SETTING BLOCK LOCATIONS EXAMPLE (96" DLO)			
CURVE DESIGNATION OFFSET		DISTANCE FROM JAMBS	
A	1/4 POINT	24"	
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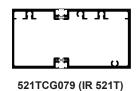


✓ HURRICANE RESISTANT PRODUCT

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SETTING BLOCK LOCATIONS EXAMPLE (96" DLO)			
CURVE DESIGNATION OFFSET DISTANCE FRO			
A	1/4 POINT	24"	
В	1/6 POINT	16"	
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