FEATURES

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EC 97911-282

▶ Hurricane Resistant Product

Blast Mitigation Product

Features

- IR 500/501 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
- · Center glazed
- · Outside glazed with internal silicone seal
- IR 500 glazing options are 9/16" (14.3), 5/8" (15.9), and 1/4" (6.4) (non-impact)
- IR 501 glazing options are 1-5/16" (33.3) and 1" (25.4) (non-impact)
- Permanodic® anodized finishes option
- Painted finishes in standard and custom choices

Optional Features

- · Integrated entrance framing
- 350/500 IR single or pairs of entrances
- Profit\$Maker® Plus die sets

Product Applications

- Impact resistant
- Blast mitigation
- · Storefront, ribbon window or punched opening
- · Low to mid-rise
- Single span

For specific product applications, consult your Kawneer representative.



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EC 97911-282

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

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

m - meter

cm - centimeter

mm - millimeter

s - second

Pa - pascal

MPa - megapascal



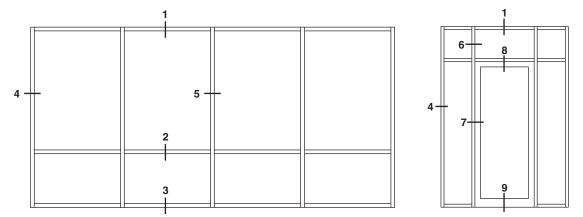
10

11

BASIC FRAMING DETAILS

Hurricane Resistant Product

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





ELEVATION IS NUMBER KEYED TO DETAILS 9/16" INFILL **5/8" INFILL** 9/16" INFILL (DRY-GLAZED) 575001 575001 575013 575001 575013 575013 5 VERTICAL 5 VERTICAL 5 VERTICAL 4 JAMB 5" (69.85) HEAD HEAD 1 HEAD Structural Silicone Sealant Structural Silicone Sealant (by Others)* (by Others)* 575011 575011 575004 575004 2 HORIZONTAL 2 HORIZONTAL 2 HORIZONTAL 575057 575057 575057 575157

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

SILL

ADMC090EN



SILL

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SILL

kawneer.com

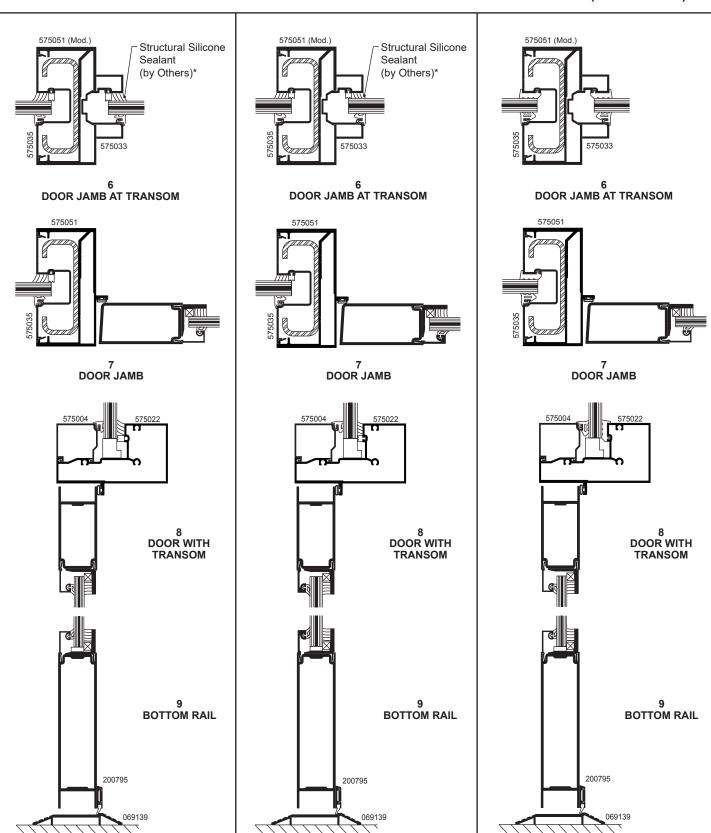
Hurricane Resistant Product

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9/16" INFILL

5/8" INFILL

9/16" INFILL (DRY-GLAZED)



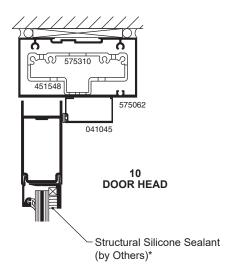
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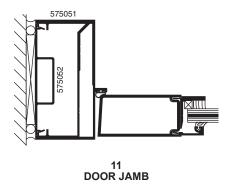
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Hurricane Resistant Product

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EC 97911-282

IR 500 Framing

575063

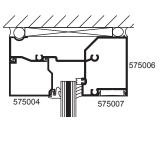
OPTIONAL RADIUS HEAD

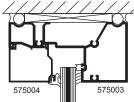
MISCELLANEOUS FRAMING

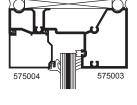
Hurricane Resistant Product

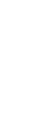
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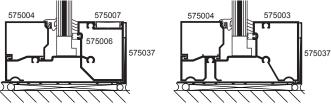
Additional information and CAD details are available at www.kawneer.com



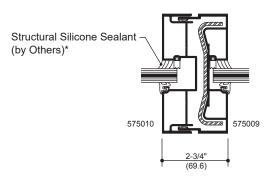




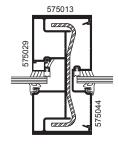




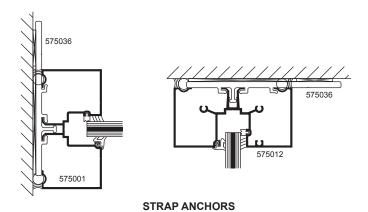
OPTIONAL HEAD & SILL (FOR CONCEALED PERIMETER FASTENERS)







1/4" INFILL (NON-IMPACT) **GLAZING ADAPTOR**



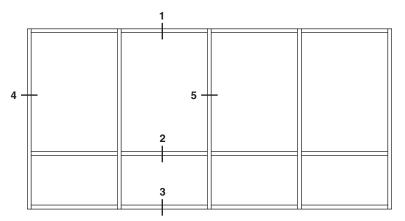
^{*} INSTALLER NOTE: Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulated Glass Unit Manufacturers.

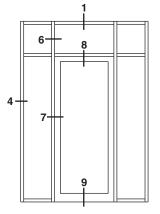


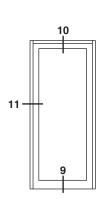
BASIC FRAMING DETAILS

Hurricane Resistant Product

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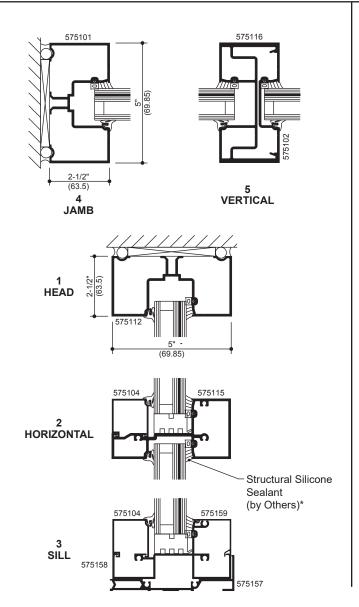


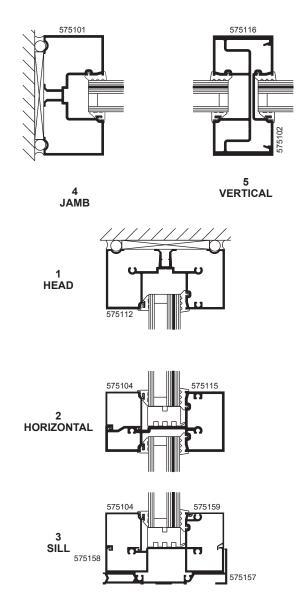


ELEVATIONS ARE NUMBER KEYED TO DETAILS

1-5/16" INFILL (WET GLAZED)

1-5/16" INFILL (DRY GLAZED)





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



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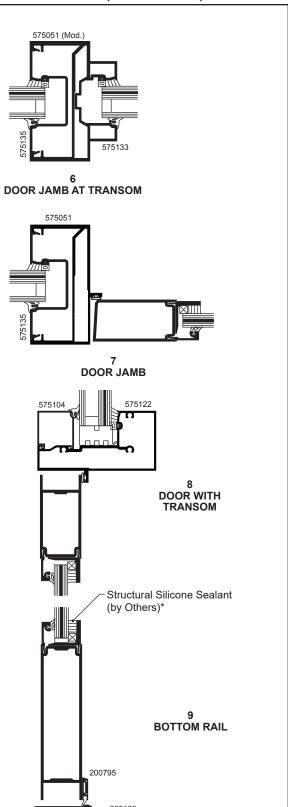
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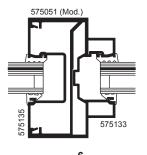
→ Hurricane Resistant Product

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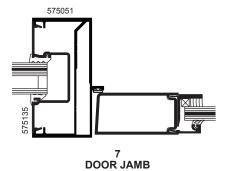
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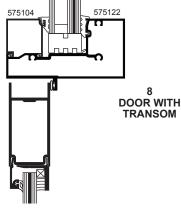
1-5/16" INFILL (DRY GLAZED)

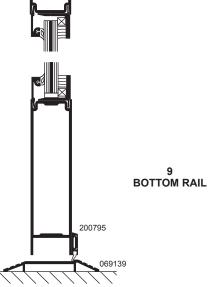




6 DOOR JAMB AT TRANSOM







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

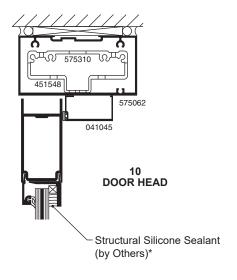
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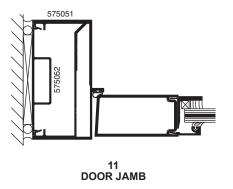
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ENTRANCE FRAMING DETAILS

Hurricane Resistant Product

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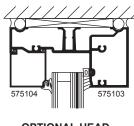
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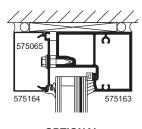
IR 501 Framing

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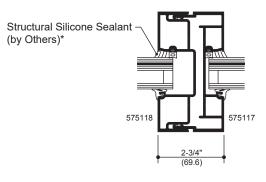
Additional information and CAD details are available at www.kawneer.com



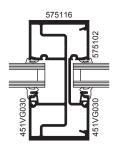
OPTIONAL HEAD WITH STOP



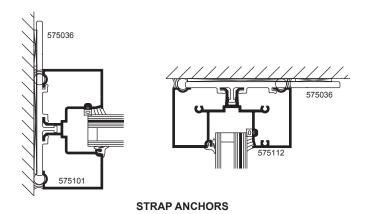
OPTIONAL RADIUS HEAD



EXPANSION MULLION



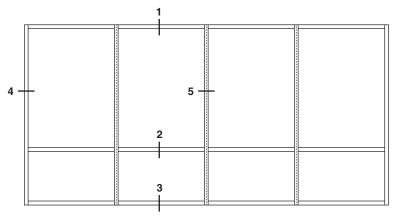
1" INFILL (NON-IMPACT) GLAZING ADAPTOR

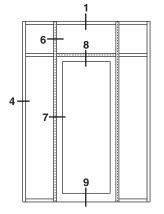


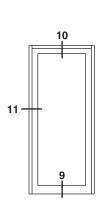
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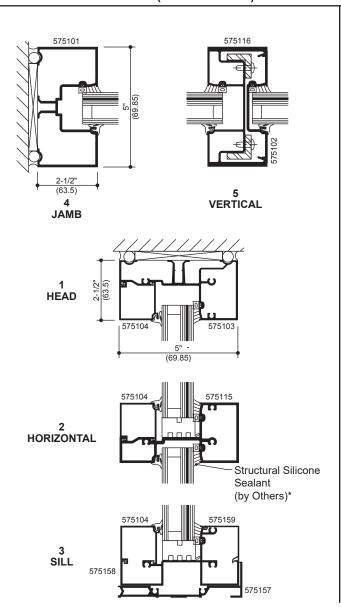


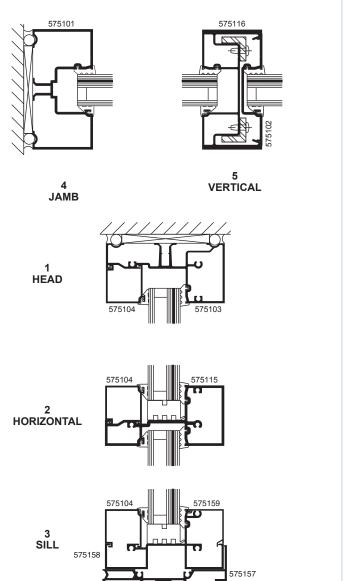


ELEVATIONS ARE NUMBER KEYED TO DETAILS

1-5/16" INFILL (WET GLAZED)

1-5/16" INFILL (DRY GLAZED)





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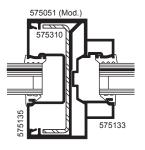
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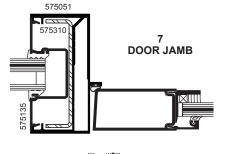
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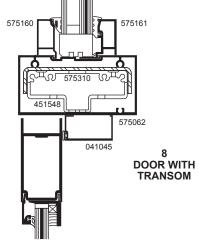
1-5/16" INFILL (WET GLAZED)

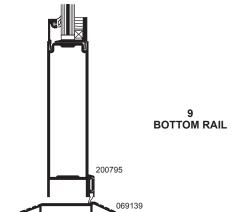
1-5/16" INFILL (DRY GLAZED)



6 DOOR JAMB AT TRANSOM

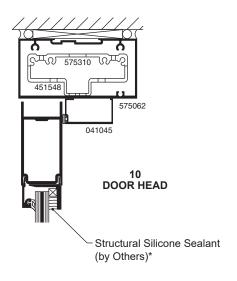


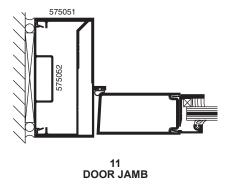




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WIND LOAD CHARTS

Mullions are designed for deflection limitations in accordance with AAMA TIR-A11 of L/175 up to 13' 6" and L/240 +1/4" above 13' 6". These curves are for mullions WITH HORIZONTALS and are based on engineering calculations for stress and deflection. Allowable wind load stress for ALUMINUM 15,152 psi (104 MPa), STEEL 30,000 psi (207 MPa). 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.

Note:

If the end reaction of the mullion [mullion spacing (ft.) times height (ft.) times specified wind load (psf) divided by two] is more than 500 lbs., the optional Mullion Anchors must be used. Consult Application Engineering. (Mullion Anchor not used with Lightweight Receptor.)

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 9/16" (14.3) or 5/8" (15.9) thick impact resistant glass or 1-5/16" (33.3) thick insulated impact resistant glass supported on two setting blocks placed at the loading points shown.



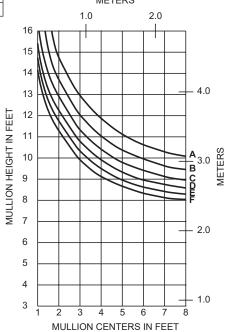
IR 500 Framing

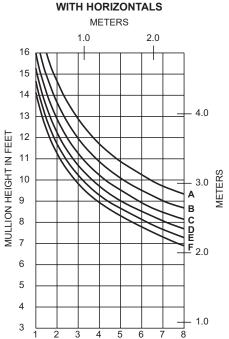
EC 97911-282

Hurricane Resistant Product

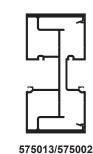
	Allowable Stress	LRFD Ultimate
	Design Load	Design Load
A =	40 PSF (1920)	67 PSF (3200)
B =	50 PSF (2400)	83 PSF (4000)
C =	60 PSF (2880)	100 PSF (4790)
D =	70 PSF (3360)	117 PSF (5600)
E=	80 PSF (3830)	133 PSF (6380)
F=	90 PSF (4310)	150 PSF (7200)

575013 & 575002 WITHOUT HORIZONTALS **METERS**





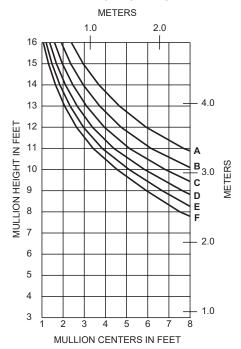
575013 & 575002



 $I_A = 8.422 \text{ in}^4 \text{ (350.55 x } 10^4 \text{ mm}^4\text{)}$ $S_A = 3.363 \text{ in}^3 \text{ (55.11 x } 10^3 \text{ mm}^3\text{)}$

575013 & 575002 AND 575110 STEEL WITH HORIZONTALS

MULLION CENTERS IN FEET

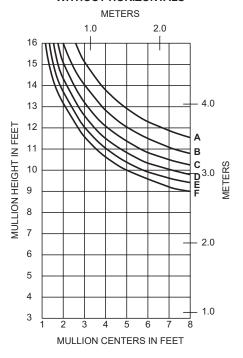




575013/575002 AND 575110 STEEL

 $I_A = 8.422 \text{ in}^4 (350.55 \text{ x } 10^4 \text{ mm}^4) \\ S_A = 3.363 \text{ in}^3 (55.11 \text{ x } 10^3 \text{ mm}^3)$ $I_{s} = 1.729 \text{ in}^{4} (71.97 \text{ x } 10^{4} \text{ mm}^{4})$ $S_{s} = 0.808 \text{ in}^{3} (13.24 \text{ x } 10^{3} \text{ mm}^{3})$

575013 & 575002 AND 575110 STEEL WITHOUT HORIZONTALS



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16

15

14

13

12

10

8

7

6

5

4

3

MULLION HEIGHT IN FEET

WINDLOAD CHARTS

575009 & 575010

WITHOUT HORIZONTALS

METERS

2.0

4.0

B 3.0 C D E F

2.0

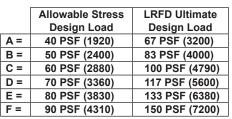
1.0

METERS

1.0

Hurricane Resistant Product

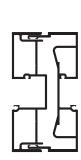
	Allowable Stress	LRFD Ultimate
	Design Load	Design Load
A =	40 PSF (1920)	67 PSF (3200)
B =	50 PSF (2400)	83 PSF (4000)
C =	60 PSF (2880)	100 PSF (4790)
D =	70 PSF (3360)	117 PSF (5600)
E=	80 PSF (3830)	133 PSF (6380)
F =	90 PSF (4310)	150 PSF (7200)





3

16



575009/575010 $I_A = 9.086 \text{ in}^4 (378.19 \times 10^4 \text{ mm}^4)$ $S_A = 3.627 \text{ in}^3 (59.44 \times 10^3 \text{ mm}^3)$

575009 & 575010 AND 575110 STEEL WITH HORIZONTALS

MULLION CENTERS IN FEET

5 6

3

4

575009 & 575010

WITH HORIZONTALS

METERS

2.0

4.0

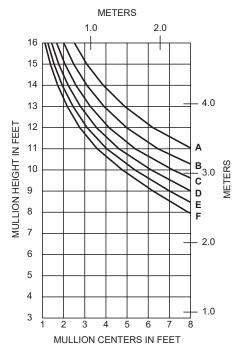
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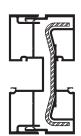
2.0

1.0

METERS

1.0





575009/575010 AND 575110 STEEL

 $I_A = 9.086 \text{ in}^4 (378.19 \times 10^4 \text{ mm}^4)$ $S_A = 3.627 \text{ in}^3 (59.44 \times 10^3 \text{ mm}^3)$

 $I_S = 1.729 \text{ in}^4 (71.97 \text{ x } 10^4 \text{mm}^4)$ $S_S = 0.808 \text{ in}^3 (13.24 \text{ x } 10^3 \text{mm}^3)$

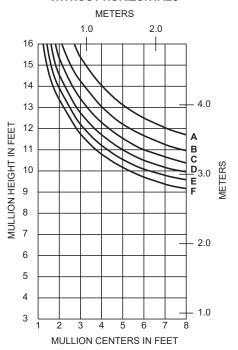
575009 & 575010 AND 575110 STEEL WITHOUT HORIZONTALS

5 6

MULLION CENTERS IN FEET

4

3



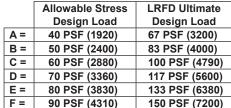


ADMC090EN kawneer.com

IR 500 Framing

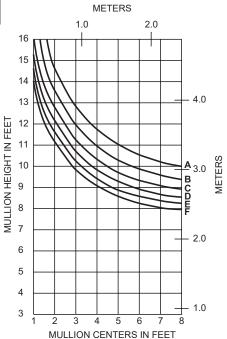
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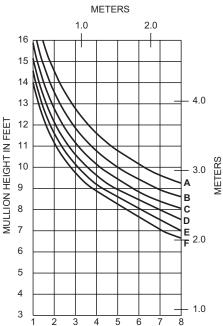
Hurricane Resistant Product

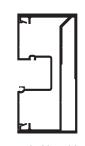


575050 & 575035 WITH HORIZONTALS F = 90 PSF (4310)

575050 & 575035 WITHOUT HORIZONTALS





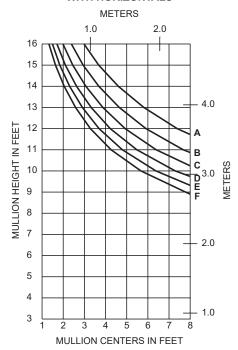


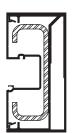
575050/575035

 $I_{\Lambda} = 8.209 \text{ in}^4 (341.68 \times 10^4 \text{ mm}^4)$ $\hat{S}_A = 3.105 \text{ in}^3 (50.88 \times 10^3 \text{ mm}^3)$

575050 & 575035 AND 575111 STEEL WITH HORIZONTALS

MULLION CENTERS IN FEET

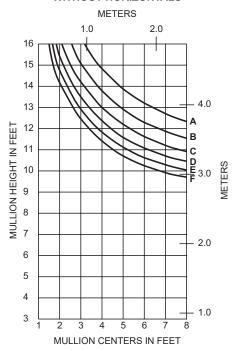




575050/575035 AND 575111 STEEL

 $I_A = 8.209 \text{ in}^4 (341.68 \times 10^4 \text{ mm}^4)$ $S_A = 3.105 \text{ in}^3 (50.88 \times 10^3 \text{ mm}^3)$ -Î= 1. 729 in⁴ (71.97 x 10⁴ mm⁴) $S_s = 0.808 \text{ in}^3 (13.24 \text{ x } 10^3 \text{ mm}^3)$

575050 & 575035 AND 575111 STEEL WITHOUT HORIZONTALS



KAWNEER

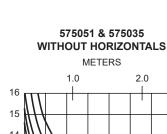
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

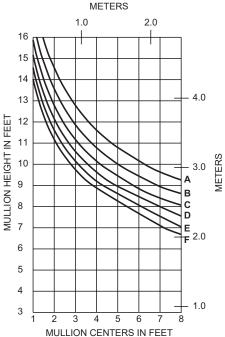
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WINDLOAD CHARTS

Hurricane Resistant Product

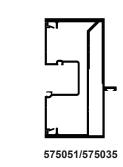
	Allowable Stress	LRFD Ultimate
	Design Load	Design Load
A =	40 PSF (1920)	67 PSF (3200)
B =	50 PSF (2400)	83 PSF (4000)
C =	60 PSF (2880)	100 PSF (4790)
D =	70 PSF (3360)	117 PSF (5600)
E =	80 PSF (3830)	133 PSF (6380)
F=	90 PSF (4310)	150 PSF (7200)



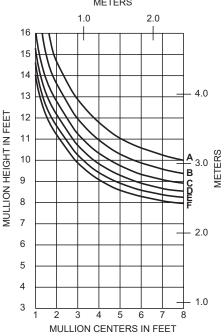


575051 & 575035

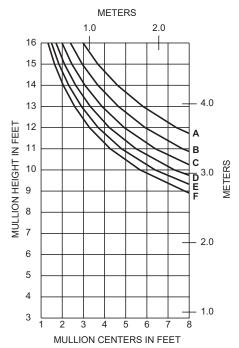
WITH HORIZONTALS

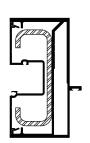


 $I_A = 8.233 \text{ in}^4 \text{ (342.68 x } 10^4 \text{ mm}^4\text{)}$ $S_A = 3.138 \text{ in}^3 \text{ (51.42 x } 10^3 \text{ mm}^3\text{)}$



575051 & 575035 AND 575111 STEEL WITH HORIZONTALS



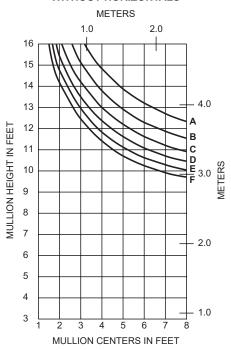


575051/575035 AND 575111 STEEL

 $I_A = 8.233 \text{ in}^4 (342.68 \times 10^4 \text{ mm}^4)$ $\hat{S}_{A} = 3.138 \text{ in}^{3} (51.42 \text{ x } 10^{3} \text{ mm}^{3})$

 $I_S = 2.946 \text{ in}^4 (122.62 \text{ x } 10^4 \text{ mm}^4)$ $\tilde{S}_{s} = 1.473 \text{ in}^{3} (24.14 \text{ x } 10^{3} \text{ mm}^{3})$

575051 & 575035 AND 575111 STEEL WITHOUT HORIZONTALS



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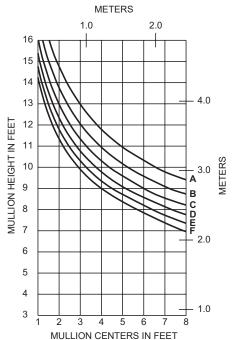
EC 97911-282

WINDLOAD CHARTS

IR 501 Framing

Hurricane Resistant Product

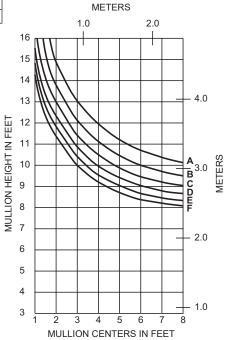
575116 & 575102 WITH HORIZONTALS



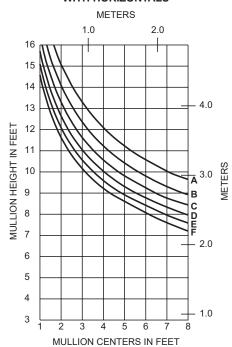
	Allowable Stress	LRFD Ultimate
	Design Load	Design Load
A =	40 PSF (1920)	67 PSF (3200)
B =	50 PSF (2400)	83 PSF (4000)
C =	60 PSF (2880)	100 PSF (4790)
D =	70 PSF (3360)	117 PSF (5600)
E=	80 PSF (3830)	133 PSF (6380)
F=	90 PSF (4310)	150 PSF (7200)

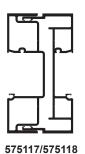
575116/575102 $I_A = 8.612 \text{ in}^4 \text{ (358.46 x } 10^4 \text{ mm}^4\text{)}$ $S_A = 3.669 \text{ in}^3 \text{ (60.12 x } 10^3 \text{ mm}^3\text{)}$

575116 & 575102 WITHOUT HORIZONTALS



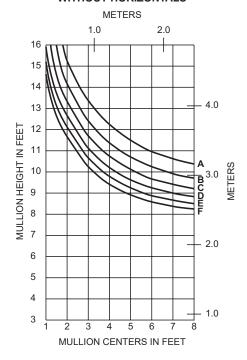
575117 & 575118 WITH HORIZONTALS





 $I_A = 9.285 \text{ in}^4 \text{ (386.47 x } 10^4 \text{ mm}^4\text{)}$ $S_A = 3.704 \text{ in}^3 \text{ (60.70 x } 10^3 \text{ mm}^3\text{)}$

575117 & 575118 WITHOUT HORIZONTALS





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EC 97911-282

4

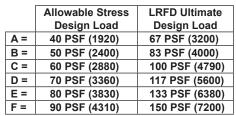
3

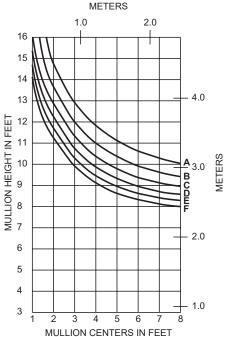
WINDLOAD CHARTS

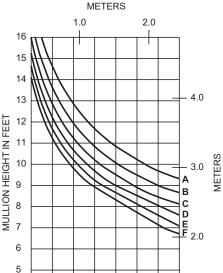
575050 & 575135

WITHOUT HORIZONTALS

Hurricane Resistant Product

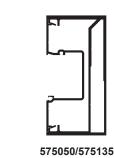






575050 & 575135

WITH HORIZONTALS



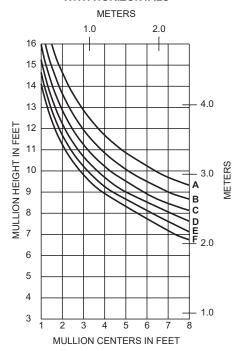
 $I_A = 8.371 \text{ in}^4 \text{ (348.43 x } 10^4 \text{ mm}^4\text{)}$ $S_A = 3.166 \text{ in}^3 \text{ (51.88 x } 10^3 \text{ mm}^3\text{)}$

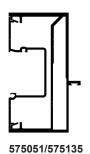
575051 & 575135 WITH HORIZONTALS

5 6

3

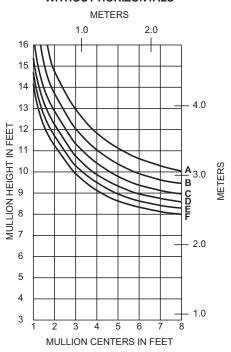
4 MULLION CENTERS IN FEET 10





 $I_A = 8.393 \text{ in}^4 (349.34 \times 10^4 \text{ mm}^4)$ $\hat{S}_A = 3.200 \text{ in}^3 (52.44 \times 10^3 \text{ mm}^3)$

575051 & 575135 WITHOUT HORIZONTALS



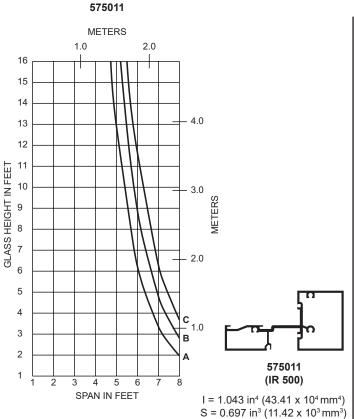


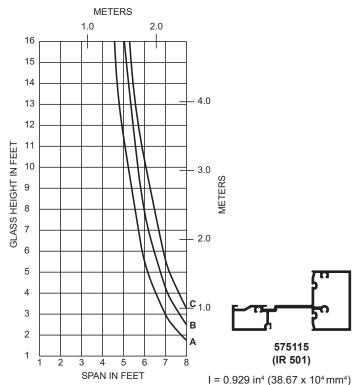
575115

Hurricane Resistant Product

IR 500/501 Framing

A = (1/4 POINT LOADING) B = (1/6 POINT LOADING) C = (1/8 POINT LOADING)





S = 0.620 in³ (10.16 x 10³ mm³)



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16

3

2

575122 HORIZONTAL

METERS

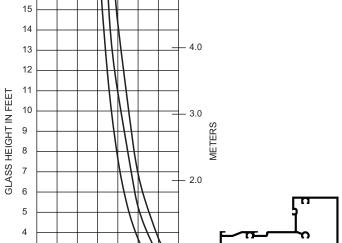
1.0

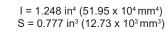
16

DEADLOADS ON ENTRANCE TRANSOM BARS

Height limitations for transom glass over a doorway are based on a 1/16" (1.6) maximum allowable deflection at the center of a transom bar. The accompanying chart is calculated for 9/16" or 5/8" thick impact resistant glass or 1-5/16" thick insulated impact resistant glass supported on two setting blocks placed at the loading points shown.

575022 HORIZONTAL METERS 1.0 2.0



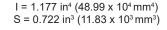


575022

(IR 500)

15 14 40 13 12 11 GLASS HEIGHT IN FEET 10 3.0 METERS 9 8 7 2.0 6 5 3 2 575122 4 5 (IR 501)

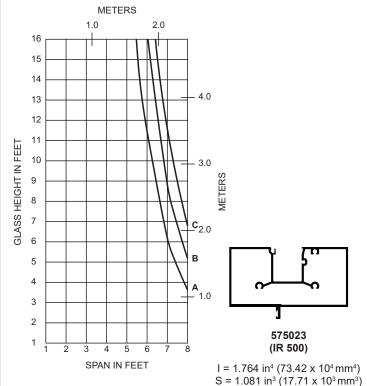
SPAN IN FEET





SPAN IN FEET

4 5



A = (1/4 POINT LOADING) B = (1/6 POINT LOADING) C = (1/8 POINT LOADING)

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 $I = 1.080 \text{ in}^4 (44.95 \times 10^4 \text{ mm}^4)$

 $S = 0.683 \text{ in}^3 (11.19 \times 10^3 \text{ mm}^3)$

DEADLOAD CHARTS

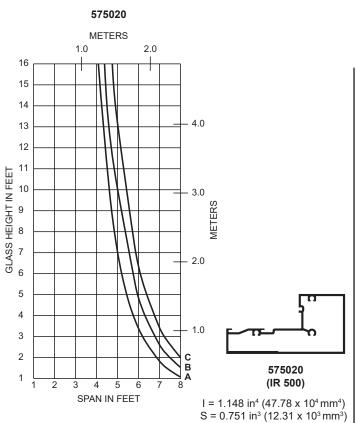
EC 97911-282

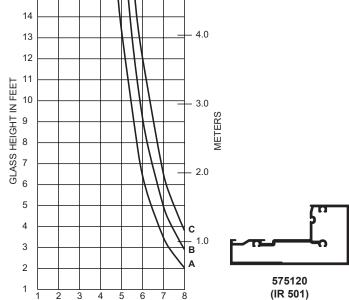
Hurricane Resistant Product

A = (1/4 POINT LOADING) B = (1/6 POINT LOADING) C = (1/8 POINT LOADING)

16

15





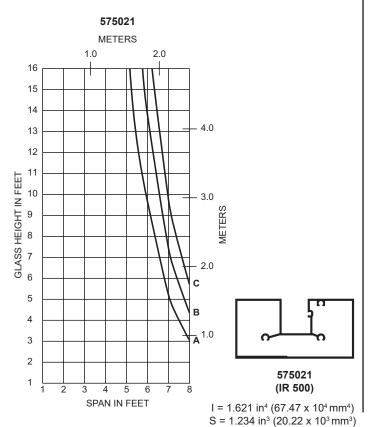
575120

METERS

SPAN IN FEET

1.0

2.0



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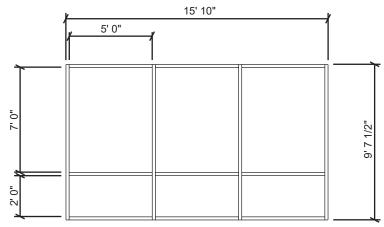
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THERMAL CHARTS

IR 501 Framing

Hurricane Resistant Product

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



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

Total Daylight Opening = $3(5' \times 7') + 3(5' \times 2') = 135ft^2$

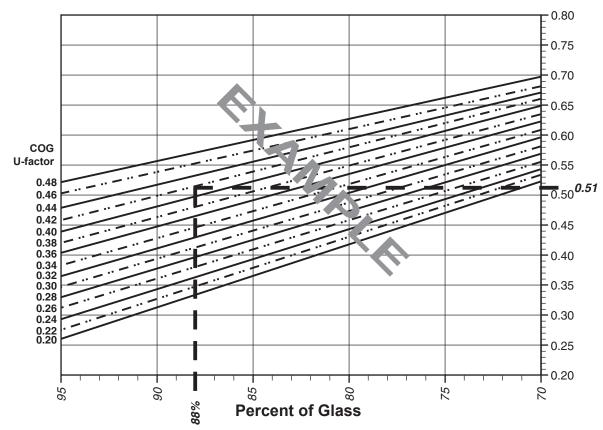
Total Projected Area = (Total Daylight Opening + Total Area of Framing System)

= 15' 10" x 9' 7 1/2" = 152.39ft²

Percent of Glass = (Total Daylight Opening ÷ Total Projected Area)

 $= (135 \div 152.39)100 = 88\%$

System U-factor vs Percent of Glass Area



Based on 88% glass and center of glass (COG) U-factor of 0.42 System U-factor is equal to 0.51 Btu/hr x ft2 x °F

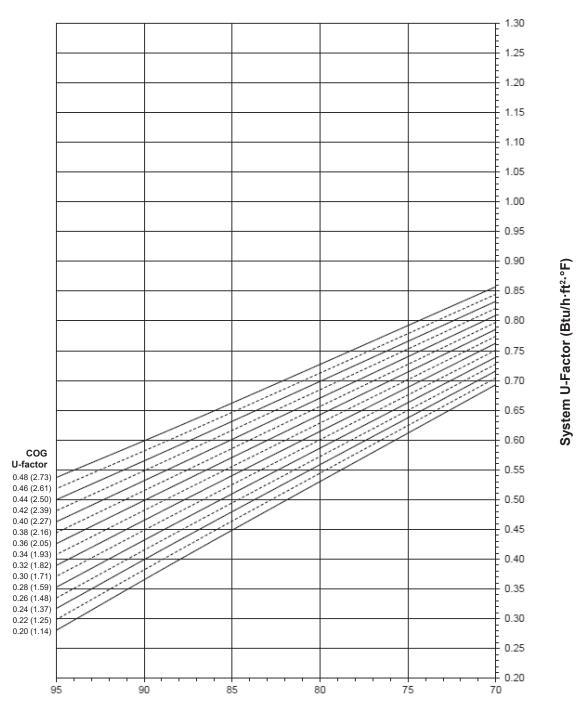


THERMAL CHARTS

Hurricane Resistant Product

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

System U-Factor for Vision Glass



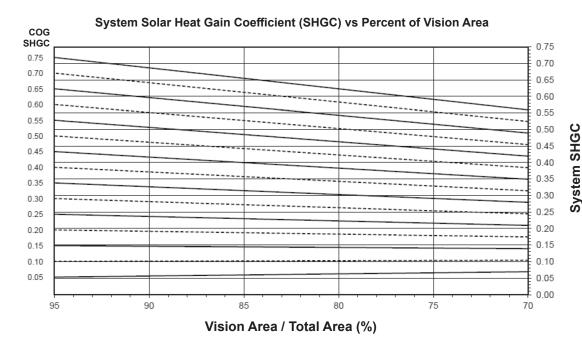
Vision Area / Total Area (%)



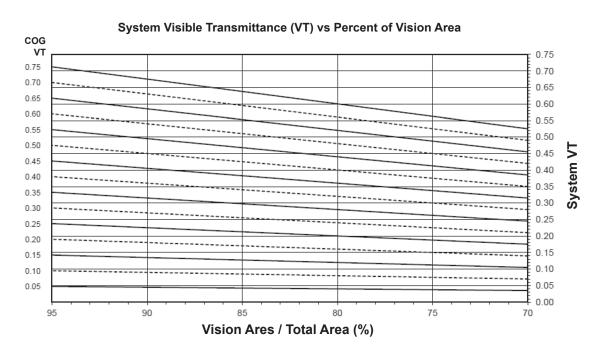
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Charts are generated per AAMA 507.



Charts are generated per AAMA 507.



THERMAL PERFORMANCE MATRIX (NFRC SIZE) Hurricane Resistant Product

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

Glass U-Factor ³	Overall U-Factor 4
0.48	0.62
0.46	0.63
0.44	0.62
0.42	0.60
0.40	0.59
0.38	0.57
0.36	0.56
0.34	0.54
0.32	0.52
0.30	0.51
0.28	0.49
0.26	0.48
0.24	0.46
0.22	0.45
0.20	0.43

IR 501 Framing

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

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

SHGC Matrix²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.66
0.70	0.62
0.65	0.58
0.60	0.53
0.55	0.49
0.50	0.45
0.45	0.40
0.40	0.36
0.35	0.32
0.30	0.27
0.25	0.23
0.20	0.19
0.15	0.15
0.10	0.10
0.05	0.06

Visible Transmittance ²

Glass VT ³	Overall VT ⁴
0.75	0.65
0.70	0.60
0.65	0.56
0.60	0.52
0.55	0.47
0.50	0.43
0.45	0.39
0.40	0.34
0.35	0.30
0.30	0.26
0.25	0.22
0.20	0.17
0.15	0.13
0.10	0.09
0.05	0.04



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