



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 in 7 choices
- Painted finishes in standard and custom choices

Optional Features

- Integrated entrance framing
- 350 IR Medium Stile - single or pairs of entrances

Product Applications

- Impact resistant
- Storefront, ribbom window or punched opening
- Low to mid-rise
- Single span

For specific product applications,
Consult your Kawneer representative.

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IR 500 BASIC FRAMING DETAILS 4

IR 500 ENTRANCE FRAMING DETAILS 5

IR 501 BASIC FRAMING DETAILS 6

IR 501 ENTRANCE FRAMING DETAILS 7

IR 500 MISCELLANEOUS FRAMING 8

IR 501 MISCELLANEOUS FRAMING 9

IR 500 WINDLOAD CHARTS 10-13

IR 501 WINDLOAD CHARTS 14, 15

IR 500 / 501 DEADLOAD CHARTS 16-18

IR 501 THERMAL CHARTS 19-22

LAWS AND BUILDING AND SAFETY CODES GOVERNING THE DESIGN AND USE OF GLAZED ENTRANCE, WINDOW, AND CURTAIN WALL PRODUCTS VARY WIDELY. KAWNEER DOES NOT CONTROL THE SELECTION OF PRODUCT CONFIGURATIONS, OPERATING HARDWARE, OR GLAZING MATERIALS, AND ASSUMES NO RESPONSIBILITY THEREFOR.

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

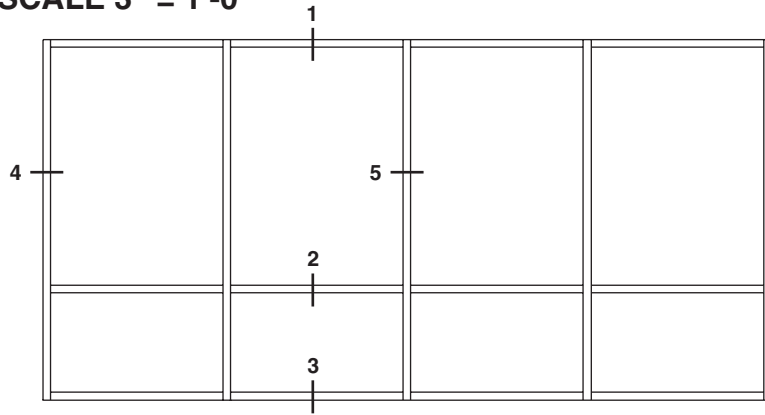
Kawneer reserves the right to change configurations without prior notice when deemed necessary for product improvement.

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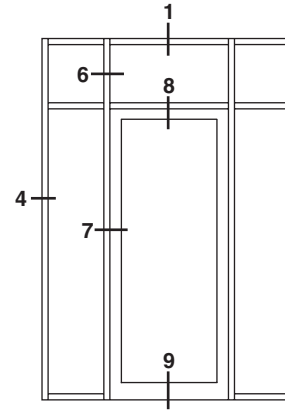
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 HURRICANE RESISTANT PRODUCT

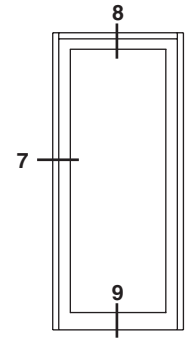
SCALE 3" = 1'-0"



9/16" INFILL

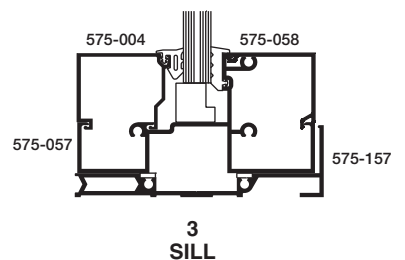
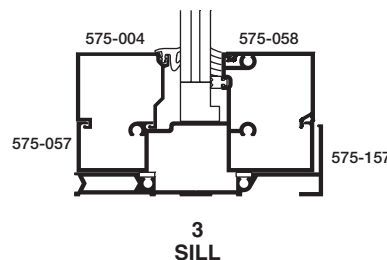
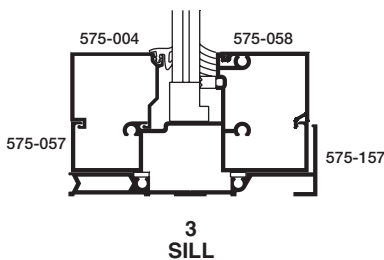
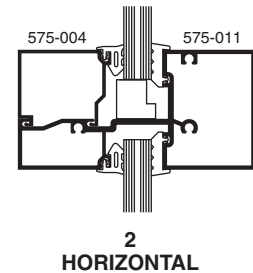
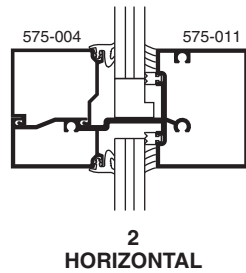
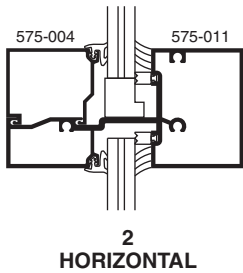
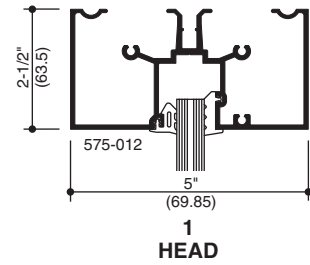
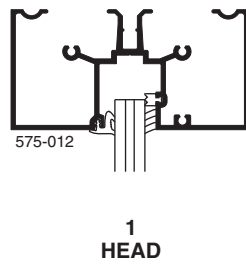
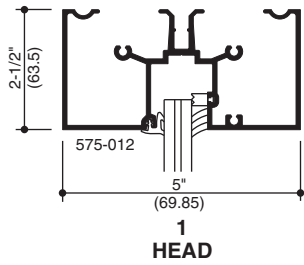
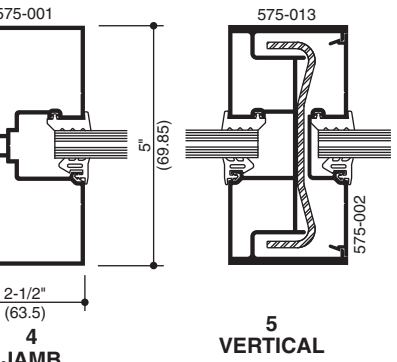
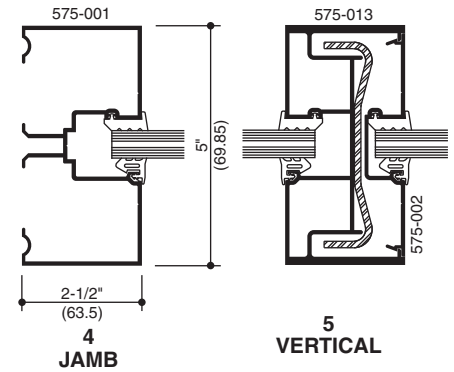
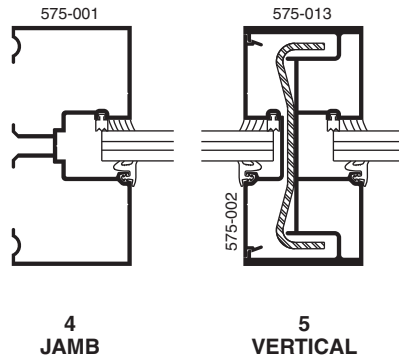
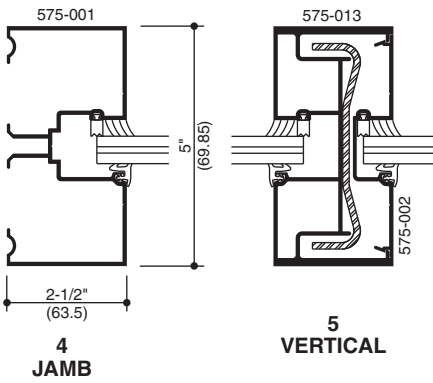


5/8" INFILL



9/16" INFILL (DRY-GLAZED)

ELEVATION IS NUMBER KEYED TO DETAILS



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SCALE 3" = 1'-0"

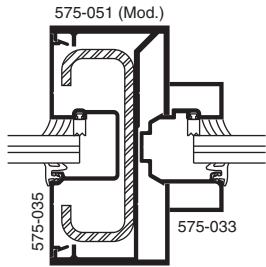
9/16" INFILL

5/8" INFILL

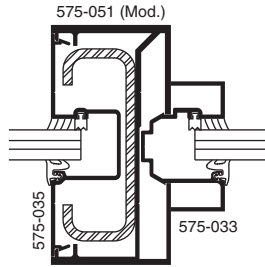
9/16" INFILL (DRY-GLAZED)

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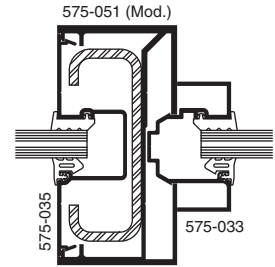
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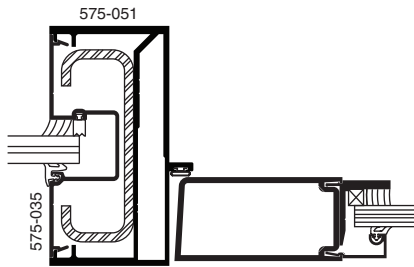
6 DOOR JAMB AT TRANSOM



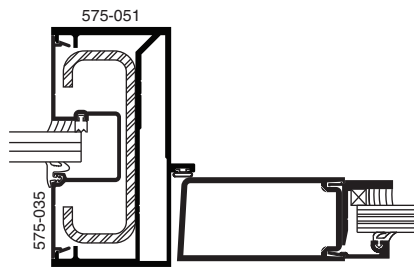
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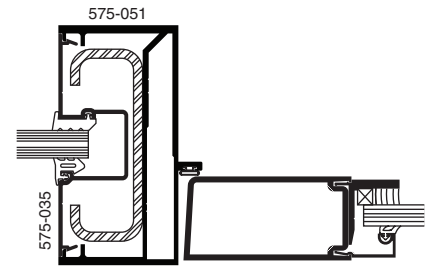
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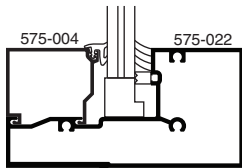
7 DOOR JAMB



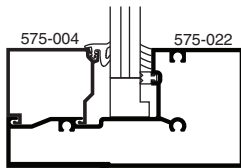
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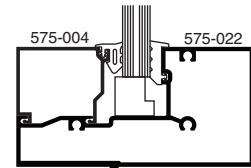
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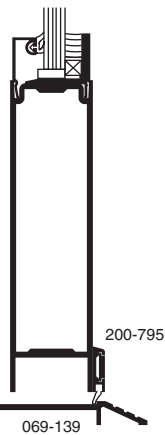
8 DOOR WITH TRANSOM



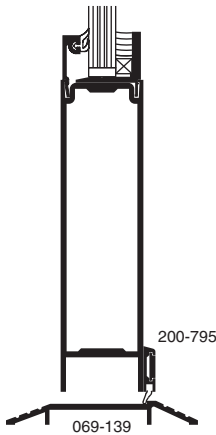
8 DOOR WITH TRANSOM



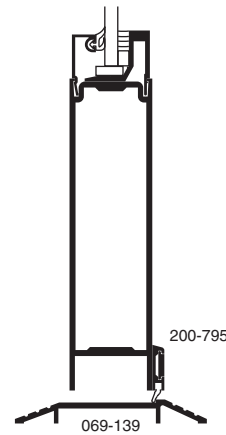
8 DOOR WITH TRANSOM



9 BOTTOM RAIL



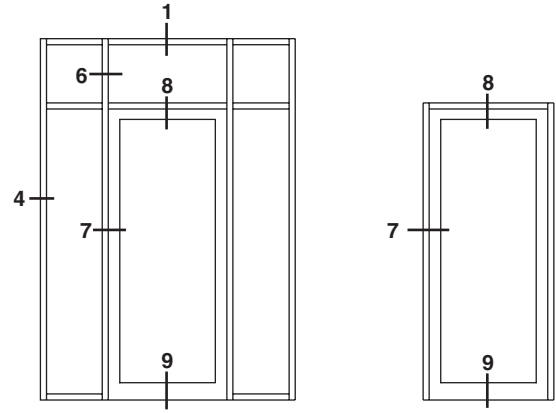
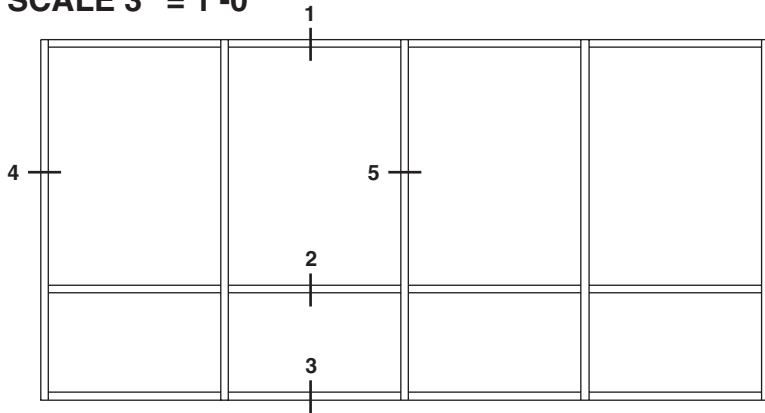
9 BOTTOM RAIL



9 BOTTOM RAIL

 HURRICANE RESISTANT PRODUCT

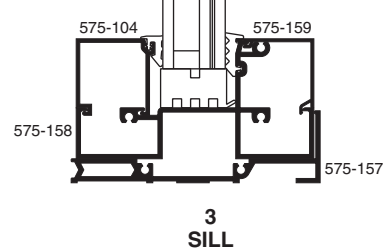
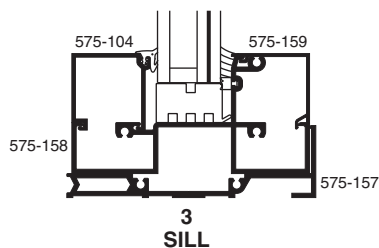
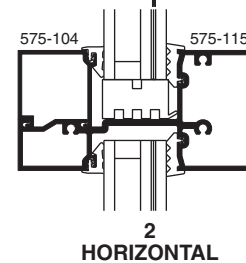
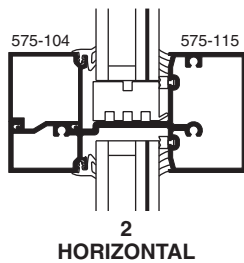
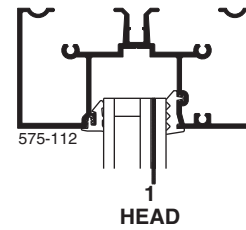
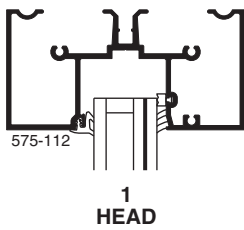
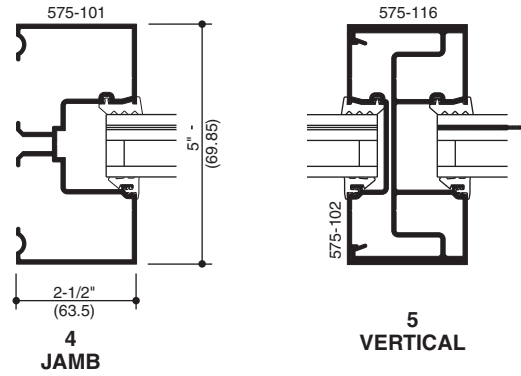
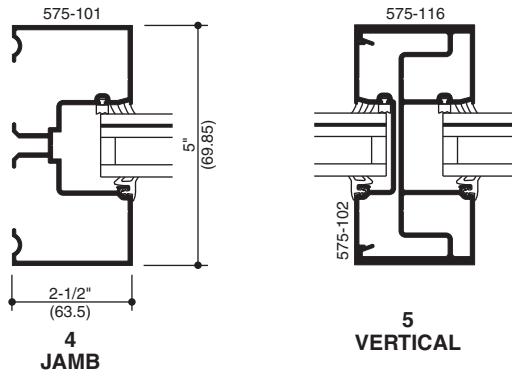
SCALE 3" = 1'-0"



ELEVATIONS ARE NUMBER KEYED TO DETAILS

1-5/16" INFILL

1-5/16" INFILL (DRY GLAZED)



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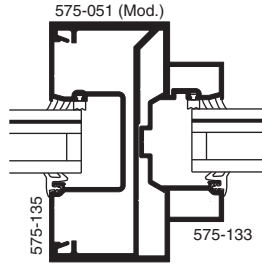
SCALE 3" = 1'-0"

1-5/16" INFILL

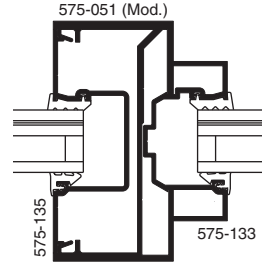
1-5/16" INFILL (DRY GLAZED)

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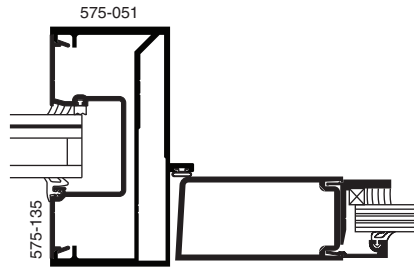
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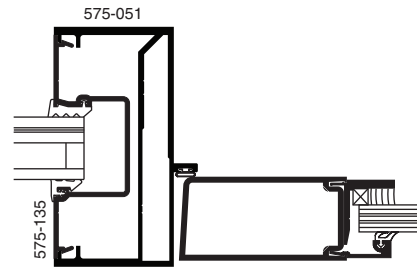
6 DOOR JAMB AT TRANSOM



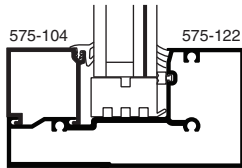
6 DOOR JAMB AT TRANSOM



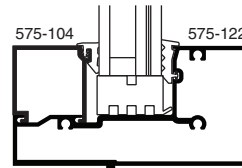
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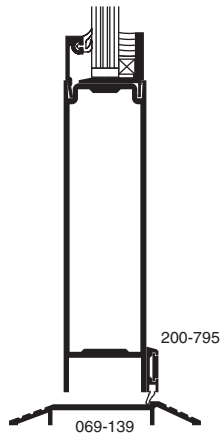
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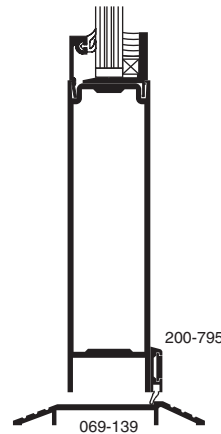
8 DOOR WITH TRANSOM



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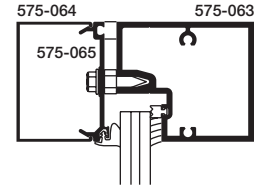
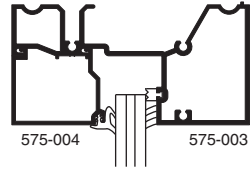
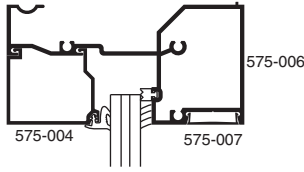
9 BOTTOM RAIL



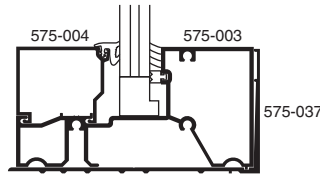
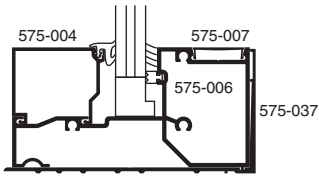
9 BOTTOM RAIL

 HURRICANE RESISTANT PRODUCT

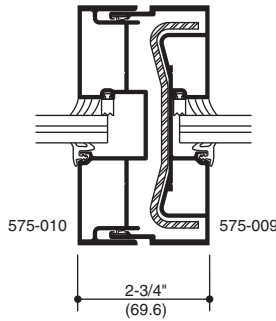
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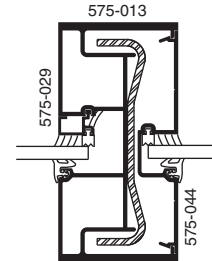
OPTIONAL RADIUS HEAD



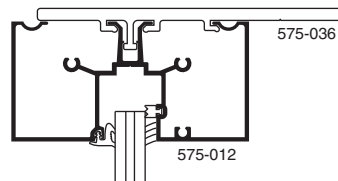
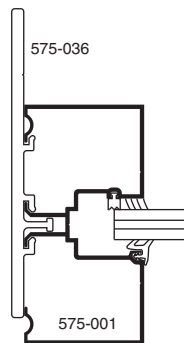
OPTIONAL HEAD & SILL (FOR CONCEALED PERIMETER FASTENERS)



EXPANSION MULLION



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



STRAP ANCHORS

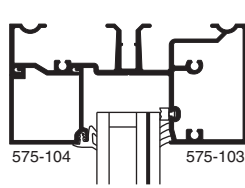
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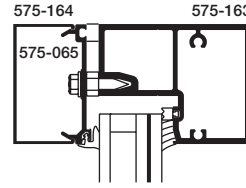
SCALE 3" = 1'-0"

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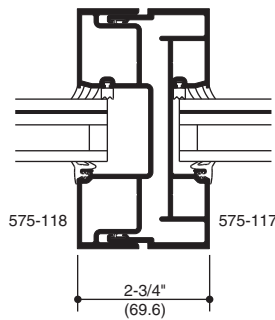
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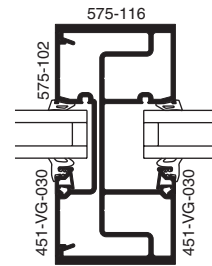
OPTIONAL HEAD WITH STOP



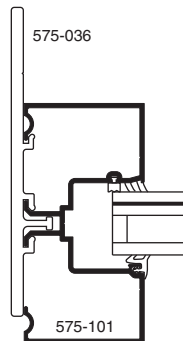
OPTIONAL RADIUS HEAD



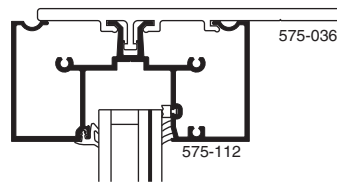
EXPANSION MULLION



1" INFILL (NON-IMPACT) GLAZING ADAPTOR



STRAP ANCHORS

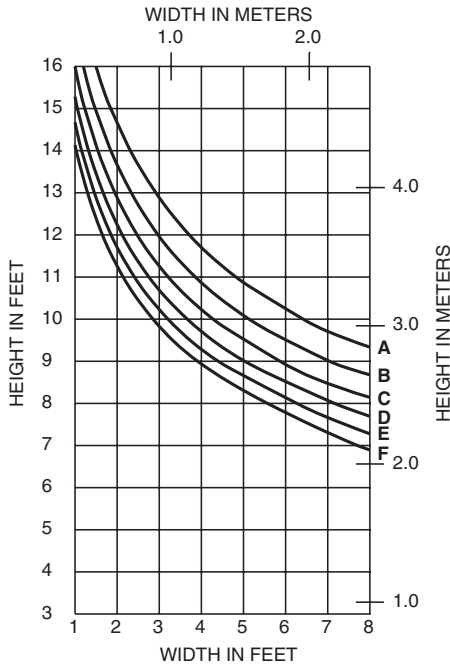


HURRICANE RESISTANT PRODUCT

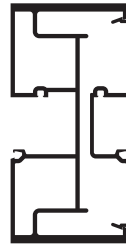
Mullions are designed for deflection limitations in accordance with AAMA TIR-A11 of L/175 up to 13'-6" and L/240 +1/4" above 13'-6". These curves are for mullions WITH and WITHOUT HORIZONTALS and are based on engineering calculations for stress and deflection. Allowable windload stress for ALUMINUM 15,152 p.s.i. (104MPa). STEEL 20,000 p.s.i. (138MPa.) Charted curves, in all cases are for the limiting value. 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.

575-013 & 575-002 WITH HORIZONTALS



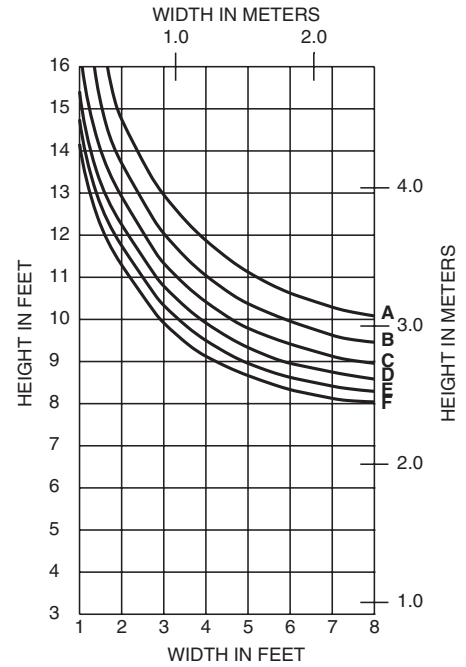
- A = 40 PSF (1920)
- B = 50 PSF (2400)
- C = 60 PSF (2880)
- D = 70 PSF (3360)
- E = 80 PSF (3840)
- F = 90 PSF (4320)



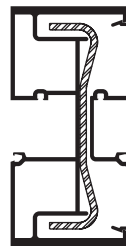
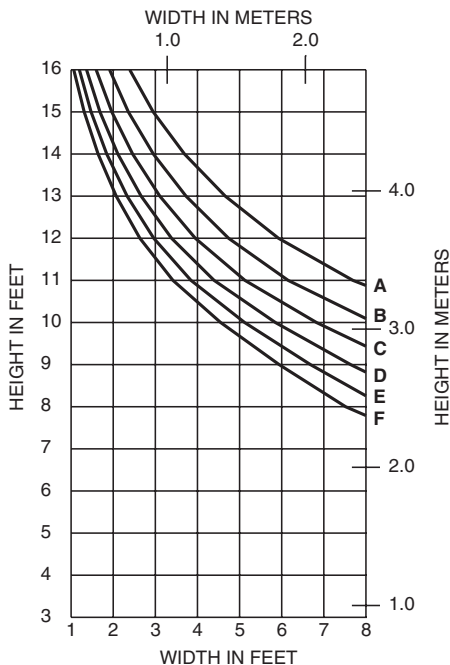
575-013/575-002

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

575-013 & 575-002 WITHOUT HORIZONTALS



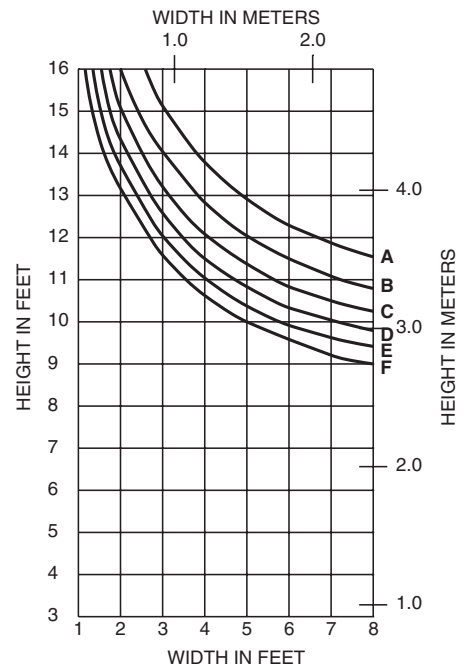
575-013 & 575-002 AND 575-110 STEEL WITH HORIZONTALS



575-013/575-002 AND 575-110 STEEL

$I_A = 8.422 \text{ in}^4 (350.55 \times 10^4 \text{ mm}^4)$
 $S_A = 3.363 \text{ in}^3 (55.11 \times 10^3 \text{ mm}^3)$
 $I_S = 1.729 \text{ in}^4 (71.97 \times 10^4 \text{ mm}^4)$
 $S_S = 0.808 \text{ in}^3 (13.24 \times 10^3 \text{ mm}^3)$

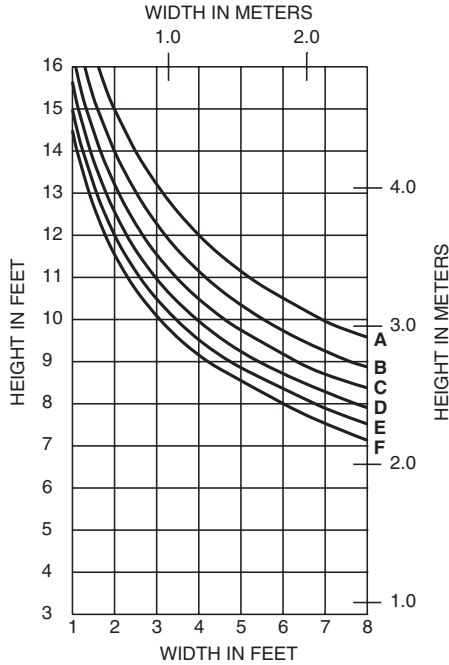
575-013 & 575-002 AND 575-110 STEEL WITHOUT HORIZONTALS



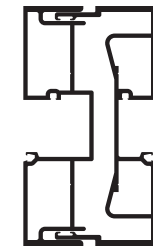
Vertical text on the right edge: Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility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

Vertical text on the right edge: Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement. © Kawneer Company, Inc., 2010

575-009 & 575-010 WITH HORIZONTALS



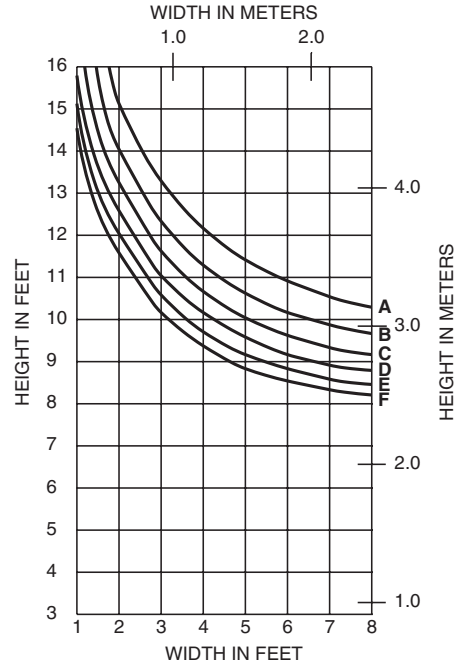
- A = 40 PSF (1920)
- B = 50 PSF (2400)
- C = 60 PSF (2880)
- D = 70 PSF (3360)
- E = 80 PSF (3840)
- F = 90 PSF (4320)



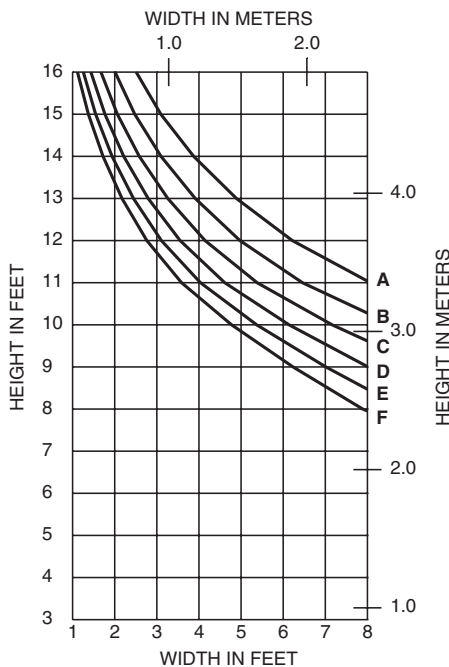
575-009/575-010

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

575-009 & 575-010 WITHOUT HORIZONTALS



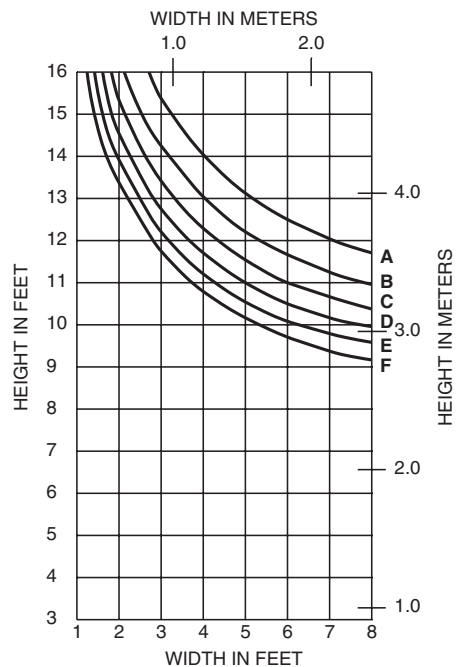
575-009 & 575-010 AND 575-110 STEEL WITH HORIZONTALS



575-009/575-010 AND 575-110 STEEL

$I_A = 9.086 \text{ in}^4 (378.19 \times 10^4 \text{ mm}^4)$
 $S_A = 3.627 \text{ in}^3 (59.44 \times 10^3 \text{ mm}^3)$
 $I_S = 1.729 \text{ in}^4 (71.97 \times 10^4 \text{ mm}^4)$
 $S_S = 0.808 \text{ in}^3 (13.24 \times 10^3 \text{ mm}^3)$

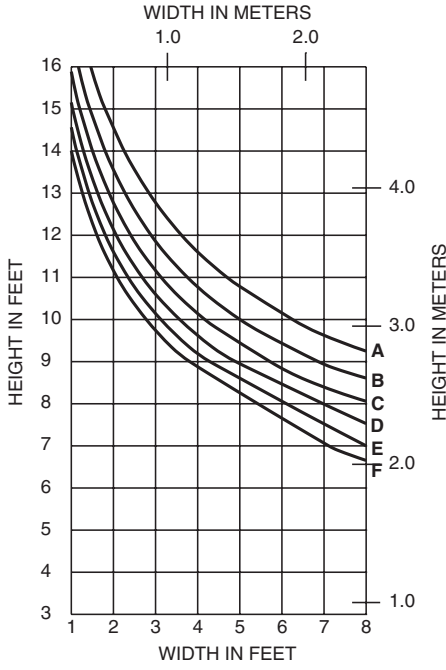
575-009 & 575-010 AND 575-110 STEEL WITHOUT HORIZONTALS



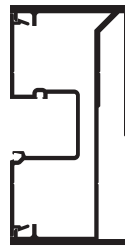
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575-050 & 575-035 WITH HORIZONTALS



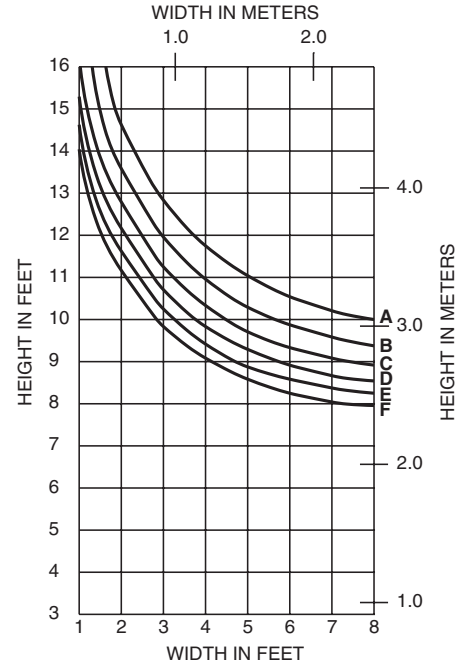
- A = 40 PSF (1920)
- B = 50 PSF (2400)
- C = 60 PSF (2880)
- D = 70 PSF (3360)
- E = 80 PSF (3840)
- F = 90 PSF (4320)



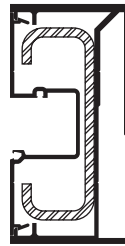
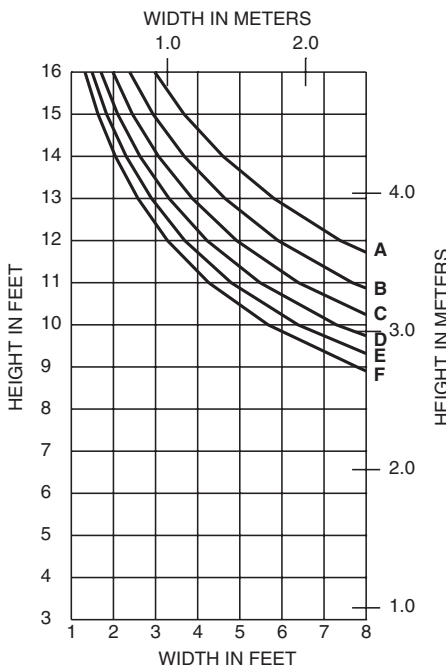
575-050/575-035

$I_A = 8.209 \text{ in}^4 (341.68 \times 10^4 \text{ mm}^4)$
 $S_A = 3.049 \text{ in}^3 (49.96 \times 10^3 \text{ mm}^3)$

575-050 & 575-035 WITHOUT HORIZONTALS



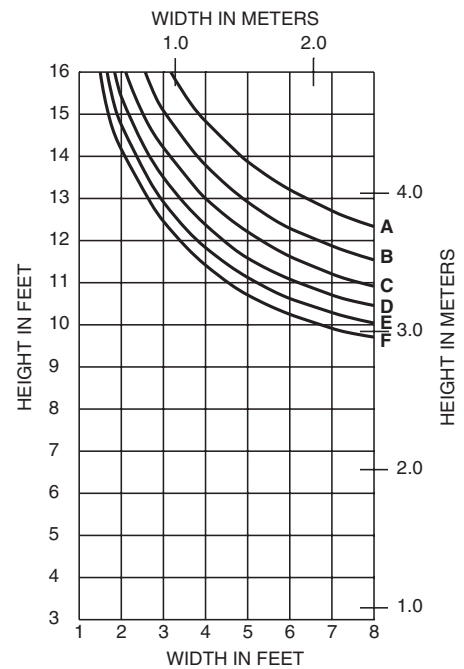
575-050 & 575-035 AND 575-111 STEEL WITH HORIZONTALS



575-050/575-035 AND 575-111 STEEL

$I_A = 8.209 \text{ in}^4 (341.68 \times 10^4 \text{ mm}^4)$
 $S_A = 3.049 \text{ in}^3 (49.96 \times 10^3 \text{ mm}^3)$
 $I_S = 1.729 \text{ in}^4 (71.97 \times 10^4 \text{ mm}^4)$
 $S_S = 0.808 \text{ in}^3 (13.24 \times 10^3 \text{ mm}^3)$

575-050 & 575-035 AND 575-111 STEEL WITHOUT HORIZONTALS



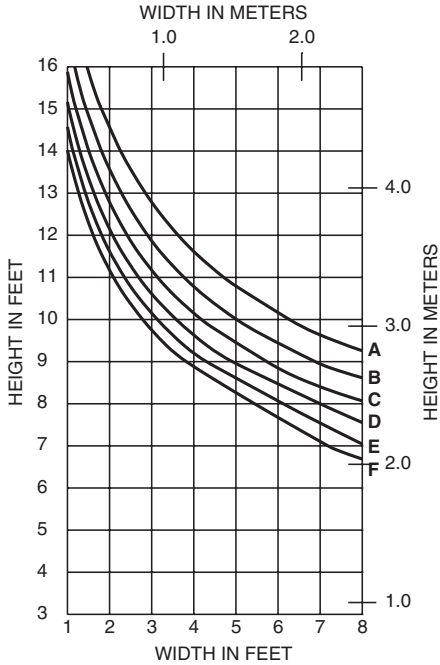
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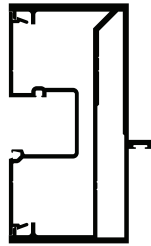
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575-051 & 575-035 WITH HORIZONTALS



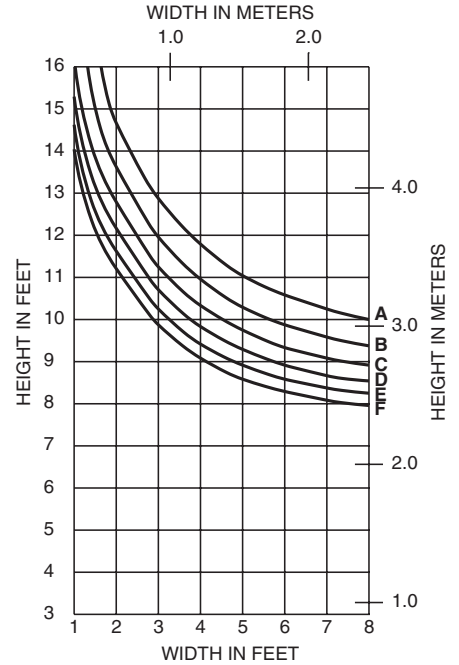
- A = 40 PSF (1920)
- B = 50 PSF (2400)
- C = 60 PSF (2880)
- D = 70 PSF (3360)
- E = 80 PSF (3840)
- F = 90 PSF (4320)



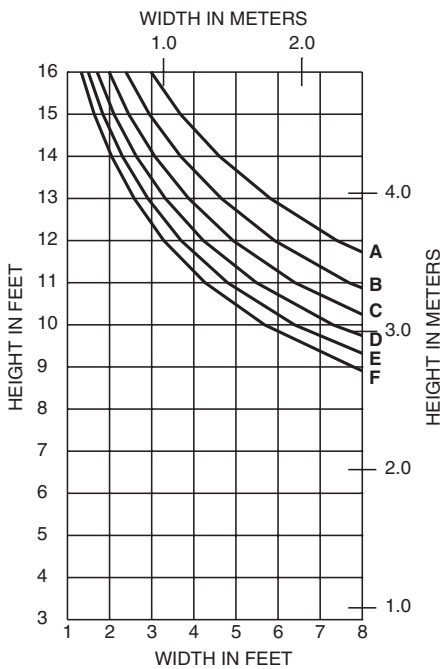
575-051/575-035

$I_A = 8.233 \text{ in}^4 (342.68 \times 10^4 \text{ mm}^4)$
 $S_A = 3.177 \text{ in}^3 (52.06 \times 10^3 \text{ mm}^3)$

575-051 & 575-035 WITHOUT HORIZONTALS



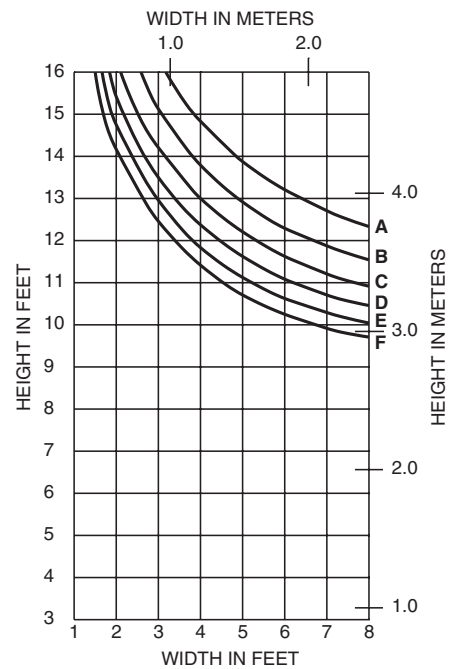
575-051 & 575-035 AND 575-111 STEEL WITH HORIZONTALS



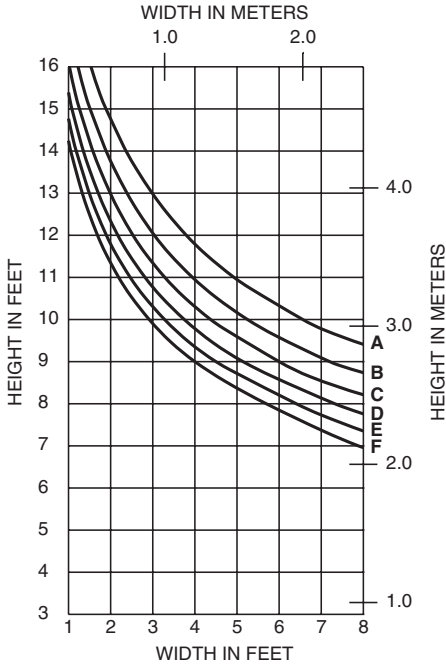
575-051/575-035 AND 575-111 STEEL

$I_A = 8.233 \text{ in}^4 (342.68 \times 10^4 \text{ mm}^4)$
 $S_A = 3.177 \text{ in}^3 (52.06 \times 10^3 \text{ mm}^3)$
 $I_S = 2.946 \text{ in}^4 (122.62 \times 10^4 \text{ mm}^4)$
 $S_S = 1.473 \text{ in}^3 (24.14 \times 10^3 \text{ mm}^3)$

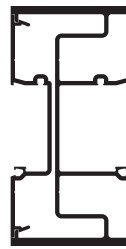
575-051 & 575-035 AND 575-111 STEEL WITHOUT HORIZONTALS



**575-116 & 575-102
WITH HORIZONTALS**



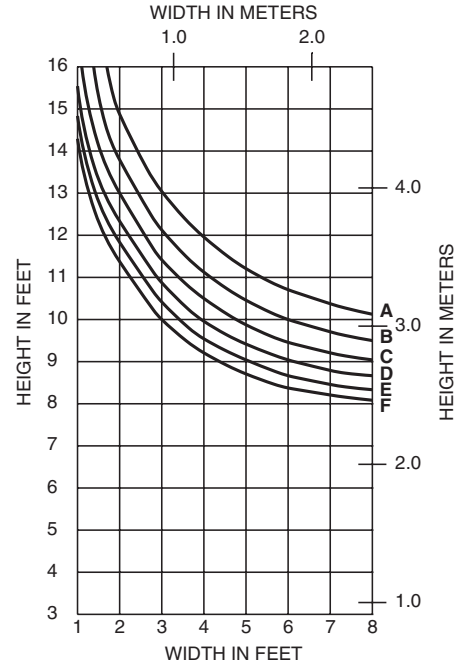
- A = 40 PSF (1920)
- B = 50 PSF (2400)
- C = 60 PSF (2880)
- D = 70 PSF (3360)
- E = 80 PSF (3840)
- F = 90 PSF (4320)



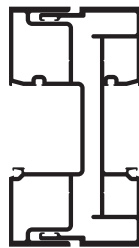
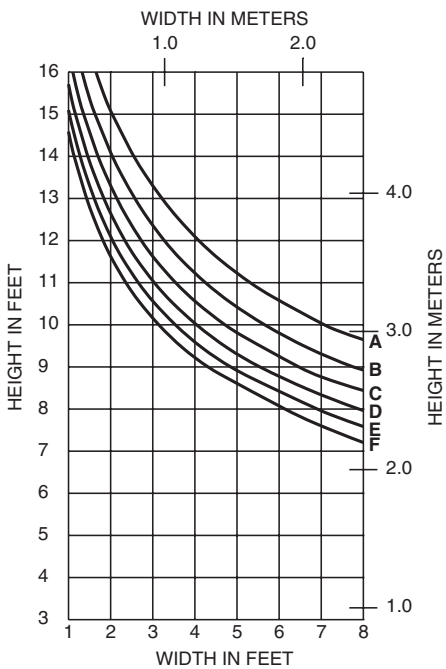
575-116/575-102

$I_A = 8.612 \text{ in}^4 (358.46 \times 10^4 \text{ mm}^4)$
 $S_A = 3.472 \text{ in}^3 (56.90 \times 10^3 \text{ mm}^3)$

**575-116 & 575-102
WITHOUT HORIZONTALS**



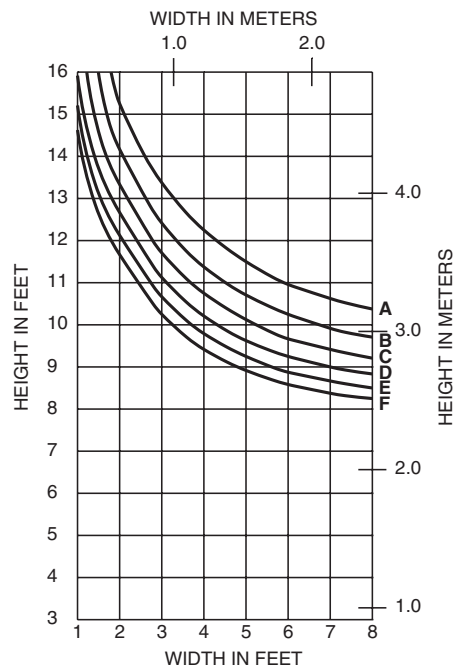
**575-117 & 575-118
WITH HORIZONTALS**



575-117/575-118

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

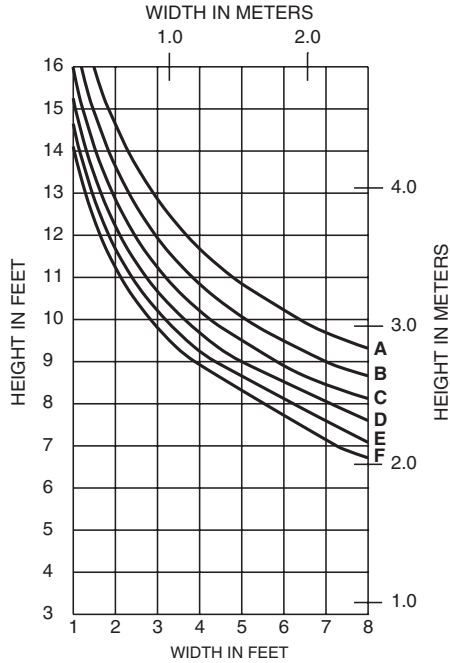
**575-117 & 575-118
WITHOUT HORIZONTALS**



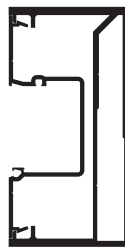
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**575-050 & 575-135
WITH HORIZONTALS**



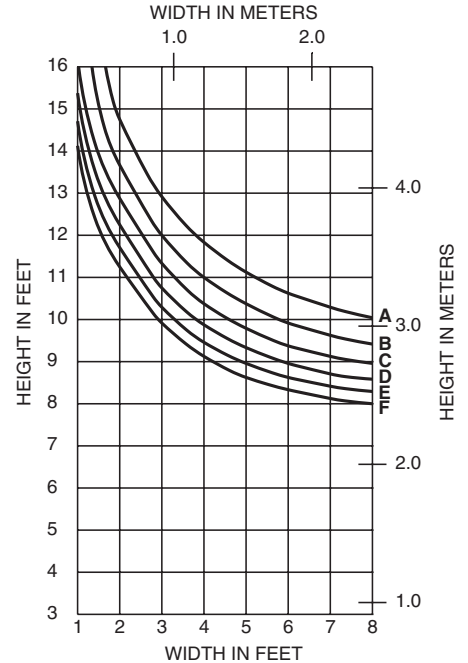
- A = 40 PSF (1920)
- B = 50 PSF (2400)
- C = 60 PSF (2880)
- D = 70 PSF (3360)
- E = 80 PSF (3840)
- F = 90 PSF (4320)



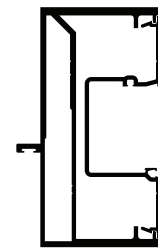
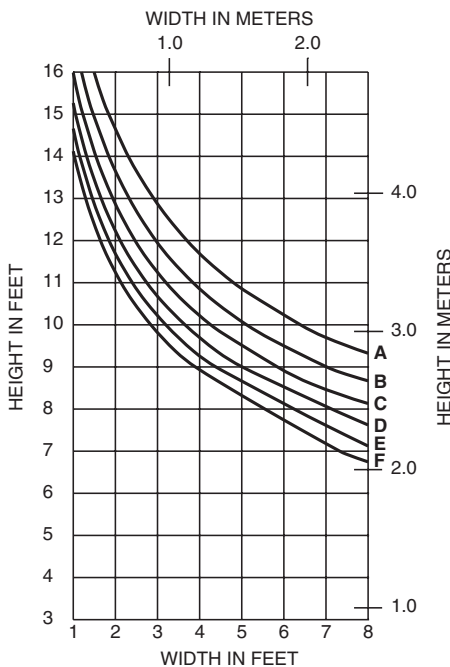
575-050/575-135

$I_A = 8.371 \text{ in}^4 (348.43 \times 10^4 \text{ mm}^4)$
 $S_A = 3.226 \text{ in}^3 (52.86 \times 10^3 \text{ mm}^3)$

**575-050 & 575-135
WITHOUT HORIZONTALS**



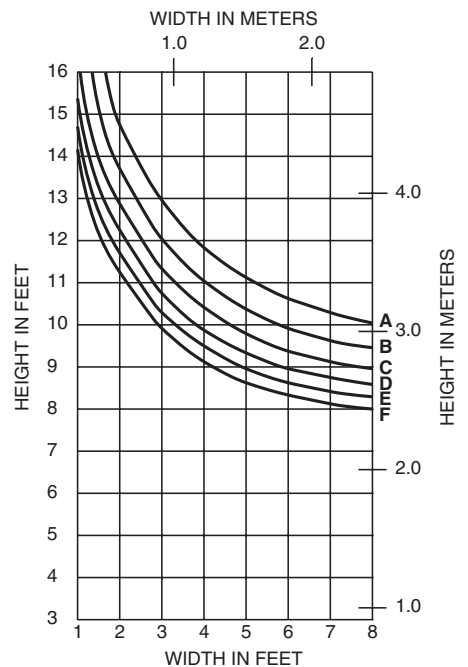
**575-051 & 575-135
WITH HORIZONTALS**



575-051/575-135

$I_A = 8.393 \text{ in}^4 (349.34 \times 10^4 \text{ mm}^4)$
 $S_A = 3.255 \text{ in}^3 (53.34 \times 10^3 \text{ mm}^3)$

**575-051 & 575-135
WITHOUT HORIZONTALS**



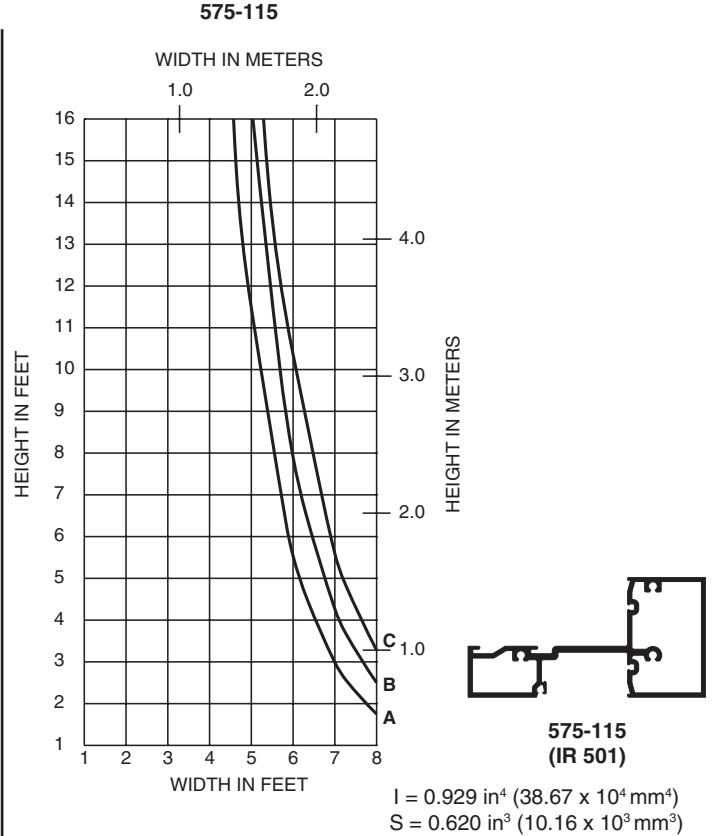
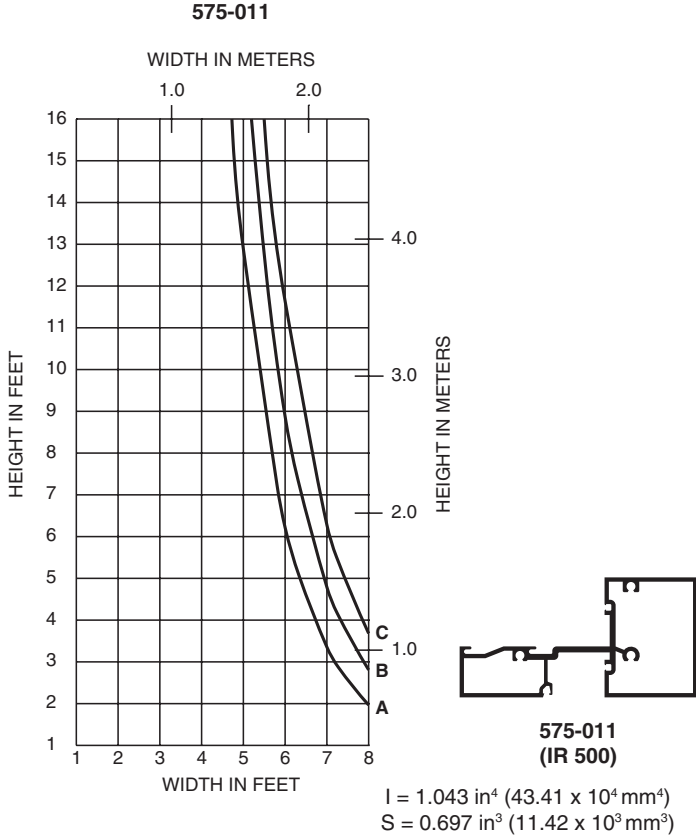
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HURRICANE RESISTANT PRODUCT

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 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.

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



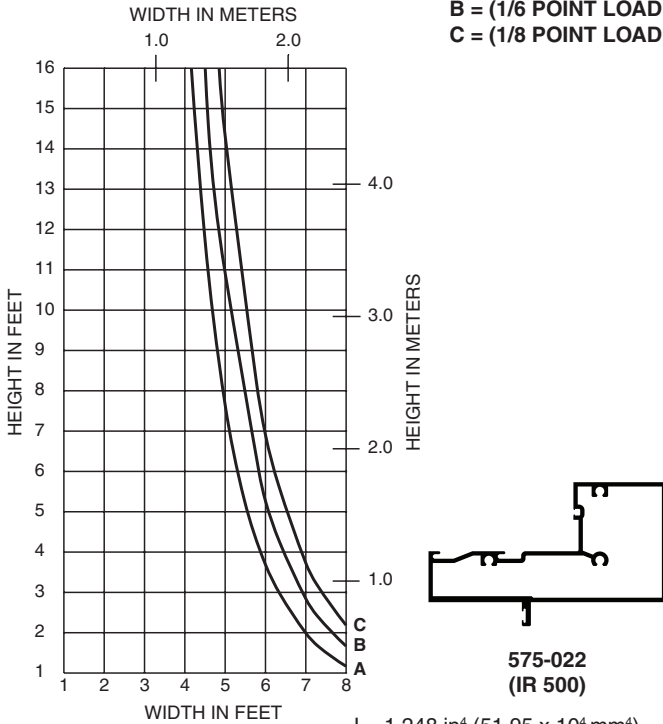
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DEADLOADS ON ENTRANCE TRANSOM BARS

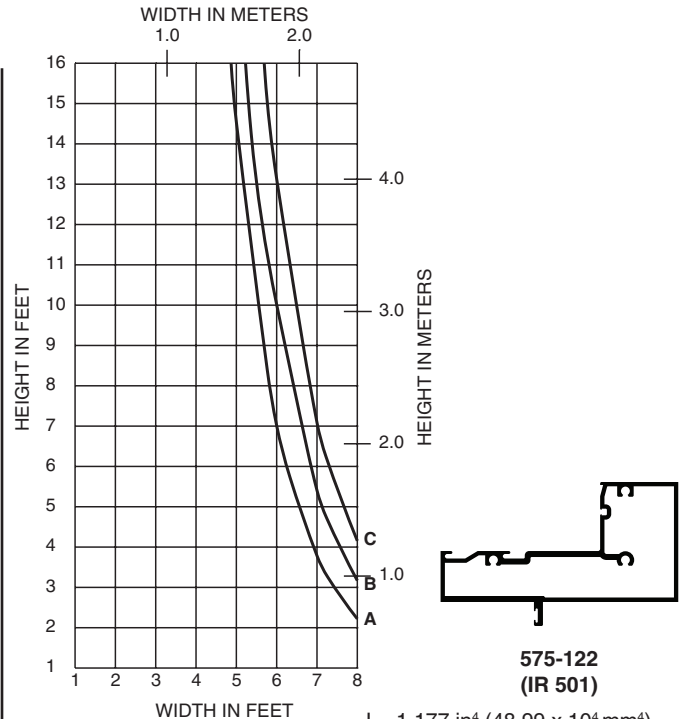
Height limitations for transom glass over a doorway are based on a 1/16" (1.6) maximum allowable deflection at the center of a transom bar. The accompanying chart is calculated for 9/16" or 5/8" thick impact resistant glass or 1-5/16" thick insulated impact resistant glass supported on two setting blocks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

575-022 HORIZONTAL



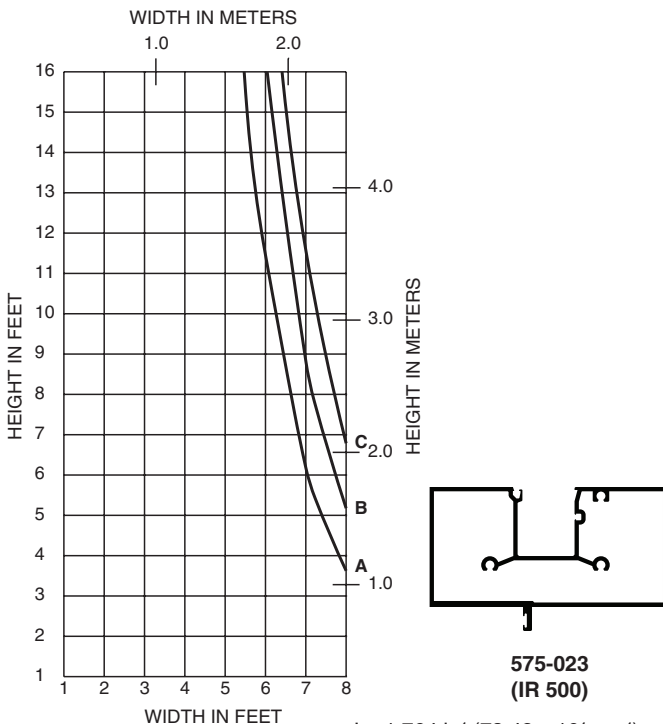
$I = 1.248 \text{ in}^4 (51.95 \times 10^4 \text{ mm}^4)$
 $S = 0.777 \text{ in}^3 (12.73 \times 10^3 \text{ mm}^3)$

575-122 HORIZONTAL



$I = 1.177 \text{ in}^4 (48.99 \times 10^4 \text{ mm}^4)$
 $S = 0.722 \text{ in}^3 (11.83 \times 10^3 \text{ mm}^3)$

575-023 HORIZONTAL



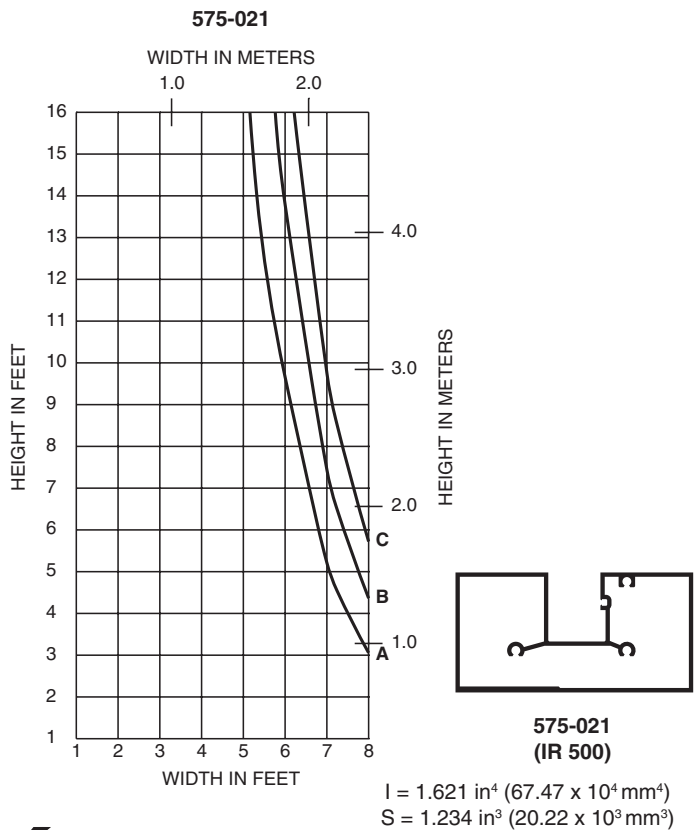
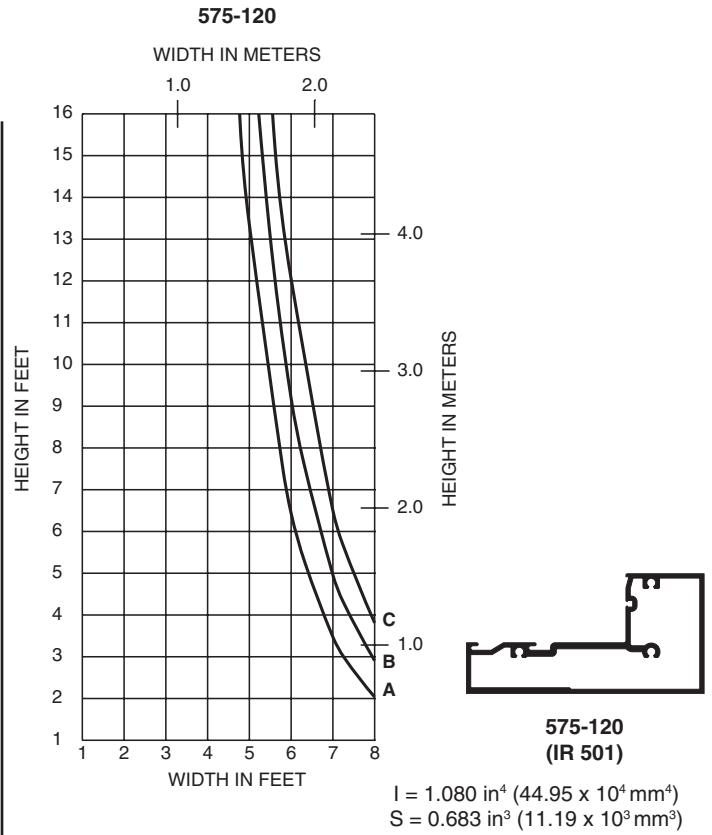
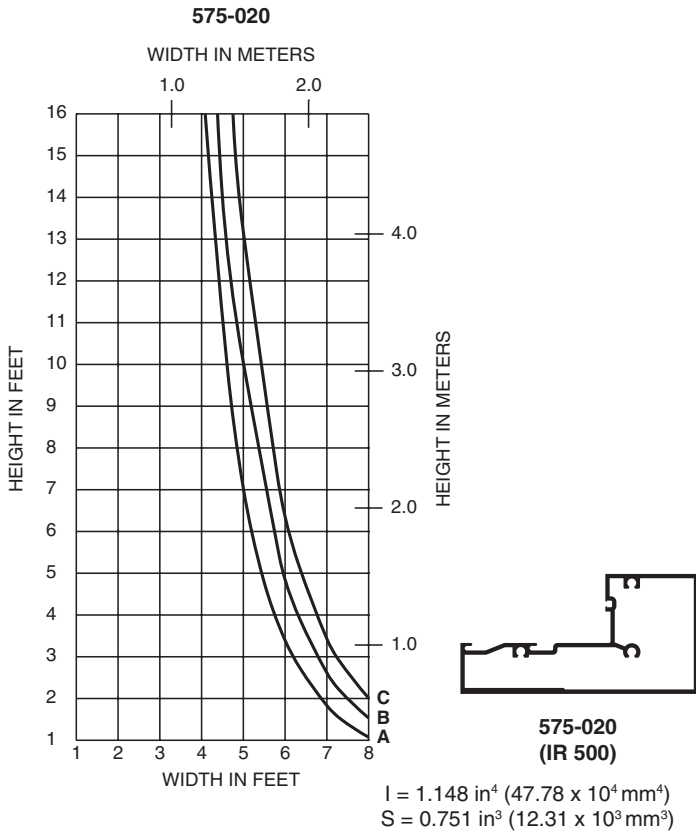
$I = 1.764 \text{ in}^4 (73.42 \times 10^4 \text{ mm}^4)$
 $S = 1.081 \text{ in}^3 (17.71 \times 10^3 \text{ mm}^3)$

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 HURRICANE RESISTANT PRODUCT

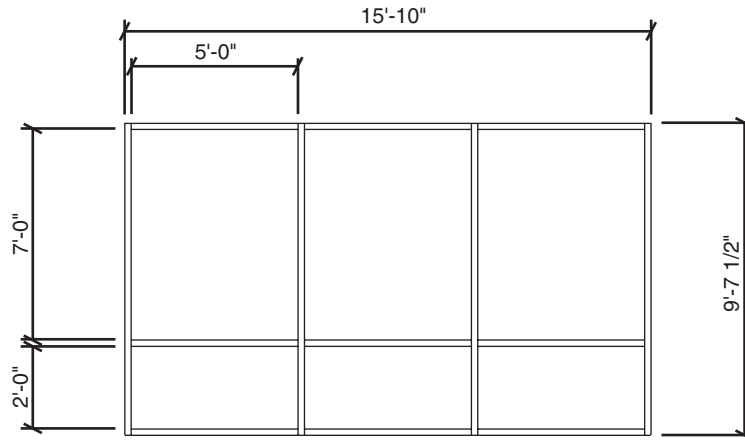
A = (1/4 POINT LOADING)
 B = (1/6 POINT LOADING)
 C = (1/8 POINT LOADING)



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Project Specific U-factor Example Calculation



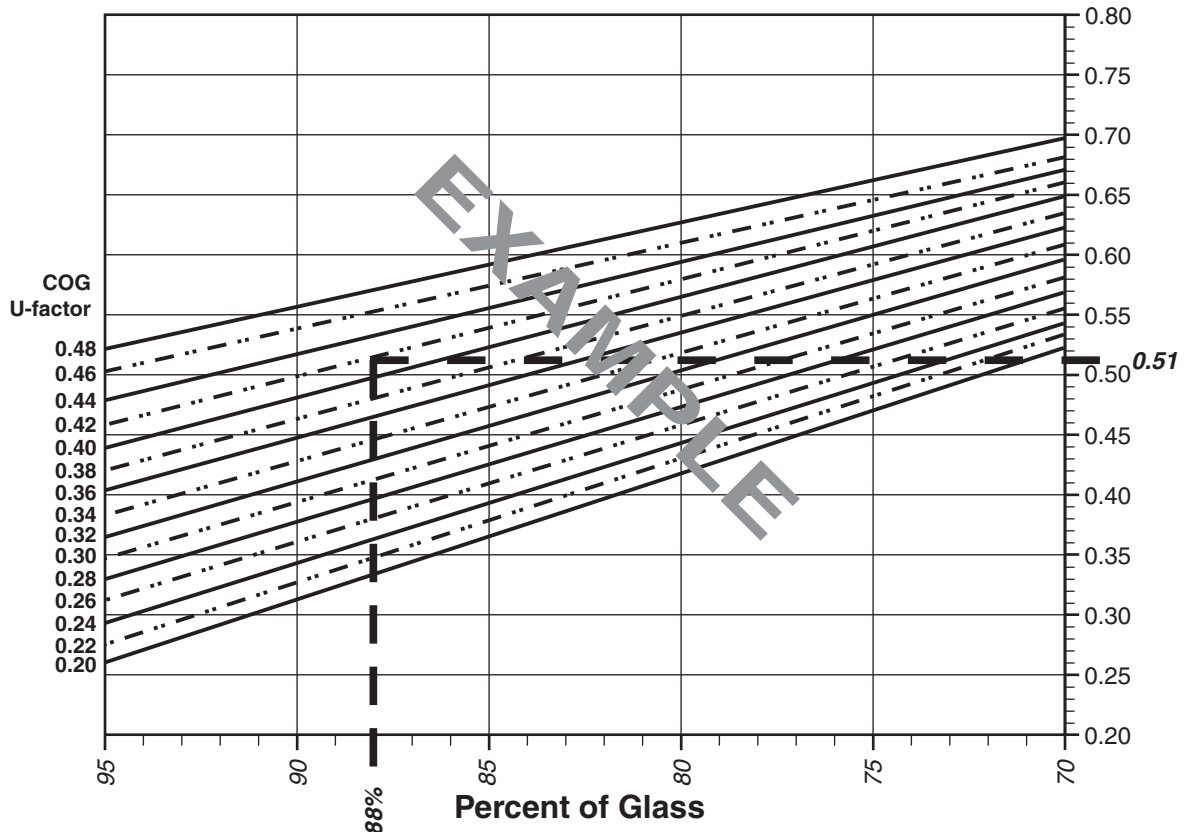
Example Glass U-factor = 0.42 Btu/hr.ft².°F

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

Total Projected Area = (Total Daylight Opening + Total Area of Framing System)
= 15'-10" x 9'-7 1/2" = 152.39ft²

Percent of Glass = (Total Daylight Opening ÷ Total Projected Area)
= (135 ÷ 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**

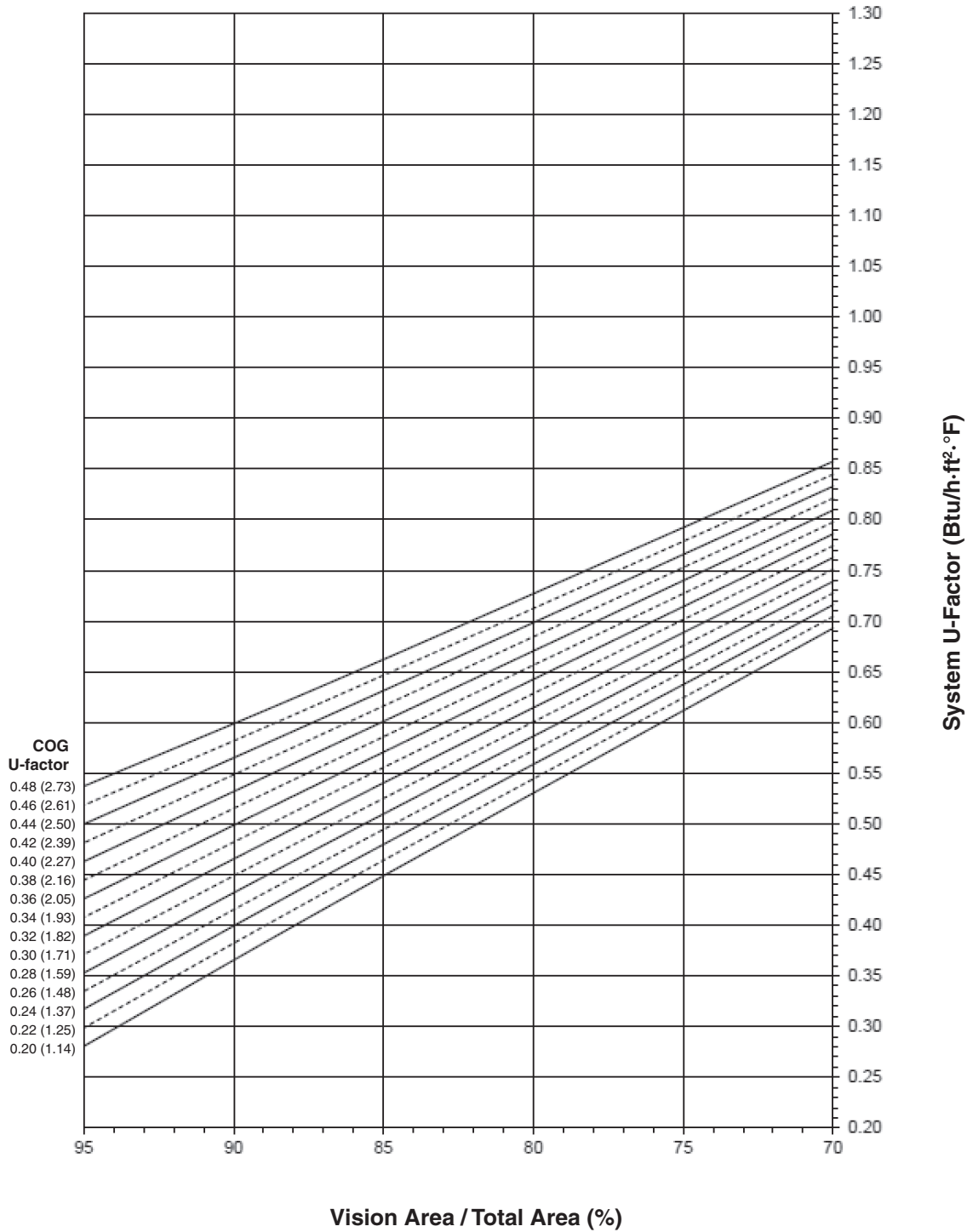
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Note:
 Values in parentheses are metric.
 COG=Center of Glass.
 Charts are generated per AAMA 507.

System U-Factor for Vision Glass

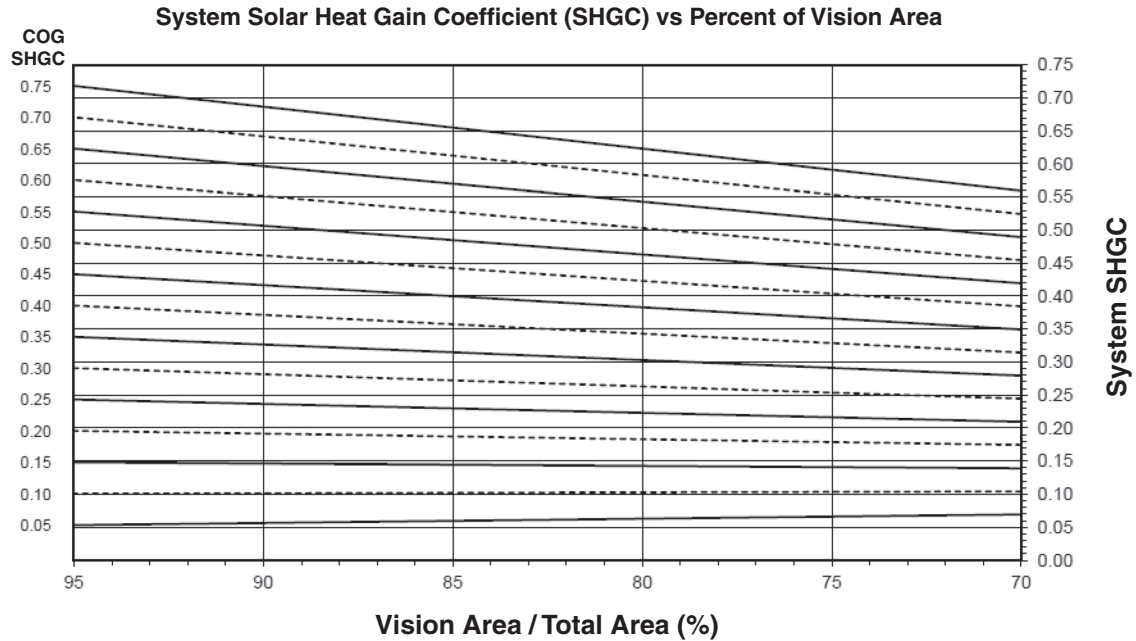


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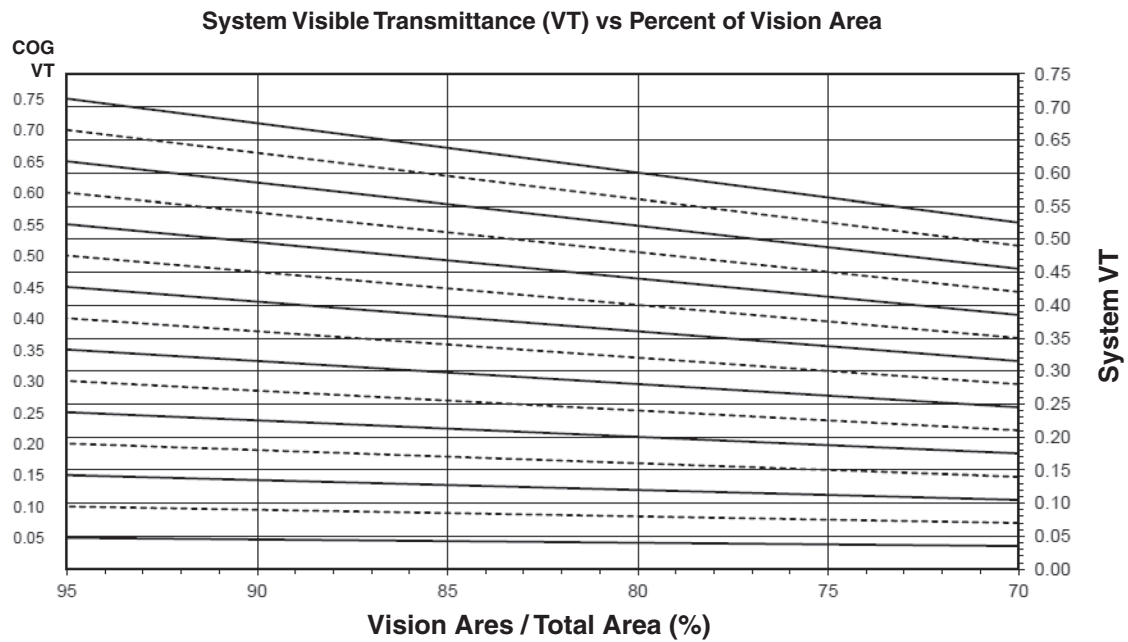
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Charts are generated per AAMA 507.



Charts are generated per AAMA 507.

 HURRICANE RESISTANT PRODUCT

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

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.65
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

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 Transmittance²

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

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 2000mm wide by 2000mm high (78-3/4" by 78-3/4").

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