

## **Features**

- AA®3200HP (High Performance) meets:  
AAMA / WDMA / CSA 101 / I.S.2 / A440-08 AW-PG135-SD
- AA®3200IR (Hurricane Resistant) meets:
  - ASTM E 1886/E 1996, FLORIDA BUILDING CODE (FBC) TAS 201/203
  - Small and Large Missile impact & cycle tested to  $\pm 135$  psf ( $\pm 6464$  Pa)
  - Tested on panel sizes 5' x 8' (1,524 x 2,438) up to 4' x 10' (1,219 x 3,048)
- Water resistance up to 15 psf (718 Pa)
- System depth of 6-3/4" (171.5)
- Available as OX, XO, OXO and OXXO configurations, common mullion allows for additional fixed lites to be stacked (OOXO)
- Infills include 1" (25.4) and 1-5/16" (33.4)
- Polyamide thermal break
- Heavy duty stainless steel casters
- Stainless steel track inset for sliding panels
- Corrosion-resistant stainless steel locks and fasteners
- Permanodic® anodized finishes option
- Painted finishes in standard and custom choices

## **Optional Features**

- Dual color finish capabilities
- Factory glazed sliding panels and sub sash fixed lites
- Low profile threshold

## **Product Applications**

- The AA®3200HP and AA®3200IR are high performance, hurricane resistant thermal sliding doors for use in condominiums, hotels and apartments.

For specific product applications,  
consult your Kawneer representative.

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

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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:

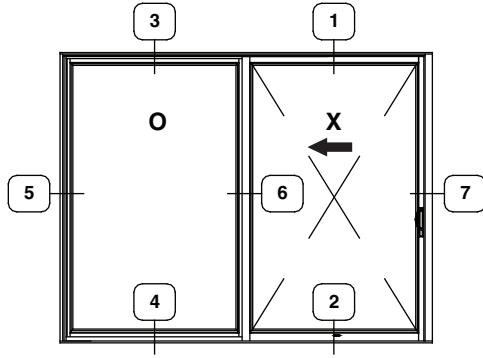
- m – meter
- cm – centimeter
- mm – millimeter
- s – second
- Pa – pascal
- MPa – megapascal

## TYPICAL ELEVATIONS

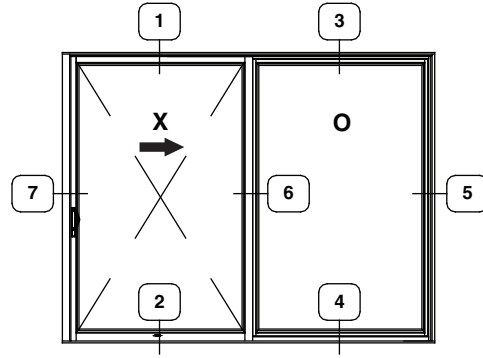
ELEVATIONS ARE NUMBER KEYED TO DETAILS ON THE FOLLOWING PAGES

**Note:** Elevations shown with "Sub-Sash" framing in the fixed lite.

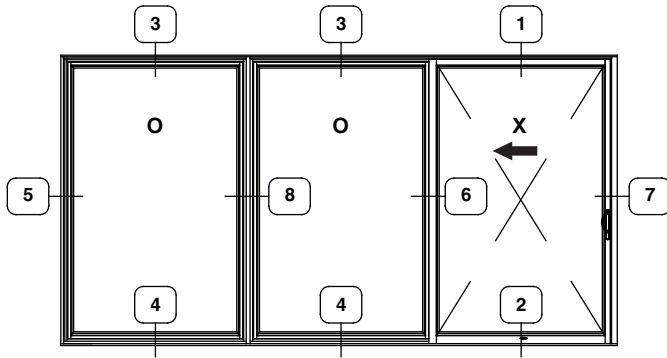
"Field Glazed" option creates a thinner sightline in the fixed lite, shown on page 8.



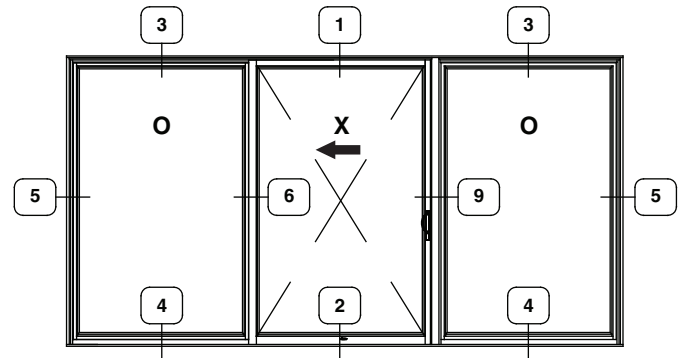
OX UNIT



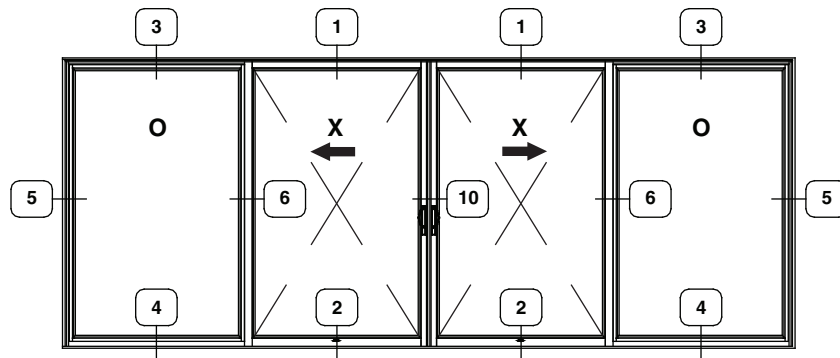
XO UNIT



OOX UNIT



OXO UNIT



OXXO UNIT

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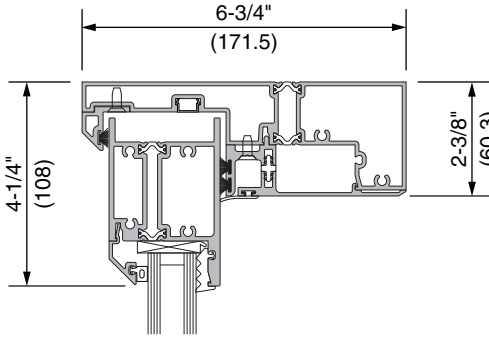
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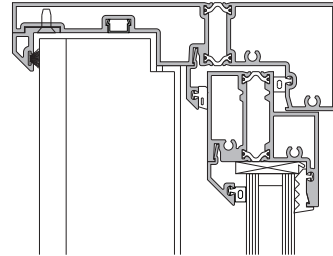
Additional information and CAD details are available at [www.kawneer.com](http://www.kawneer.com)

## AA®3200HP HIGH PERFORMANCE GLAZING

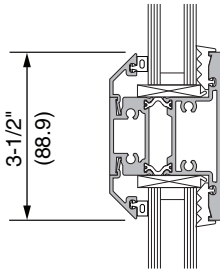
DRY GLAZED - 1" INFILL  
(NON-IMPACT) WITH "SUB SASH"



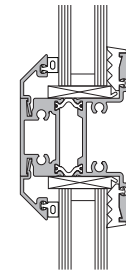
**1**  
HEAD  
AT SLIDING PANEL



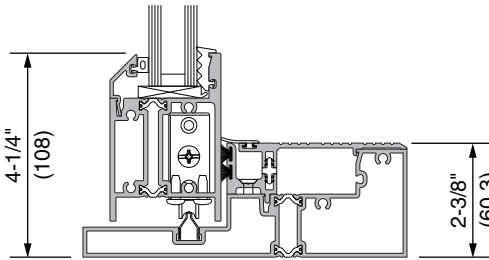
**3**  
HEAD  
AT FIXED LITE



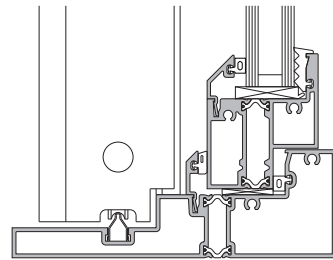
OPTIONAL HORIZONTAL  
AT SLIDING PANEL



OPTIONAL HORIZONTAL  
AT FIXED LITE



**2**  
SILL  
AT SLIDING PANEL



**4**  
SILL  
AT FIXED LITE

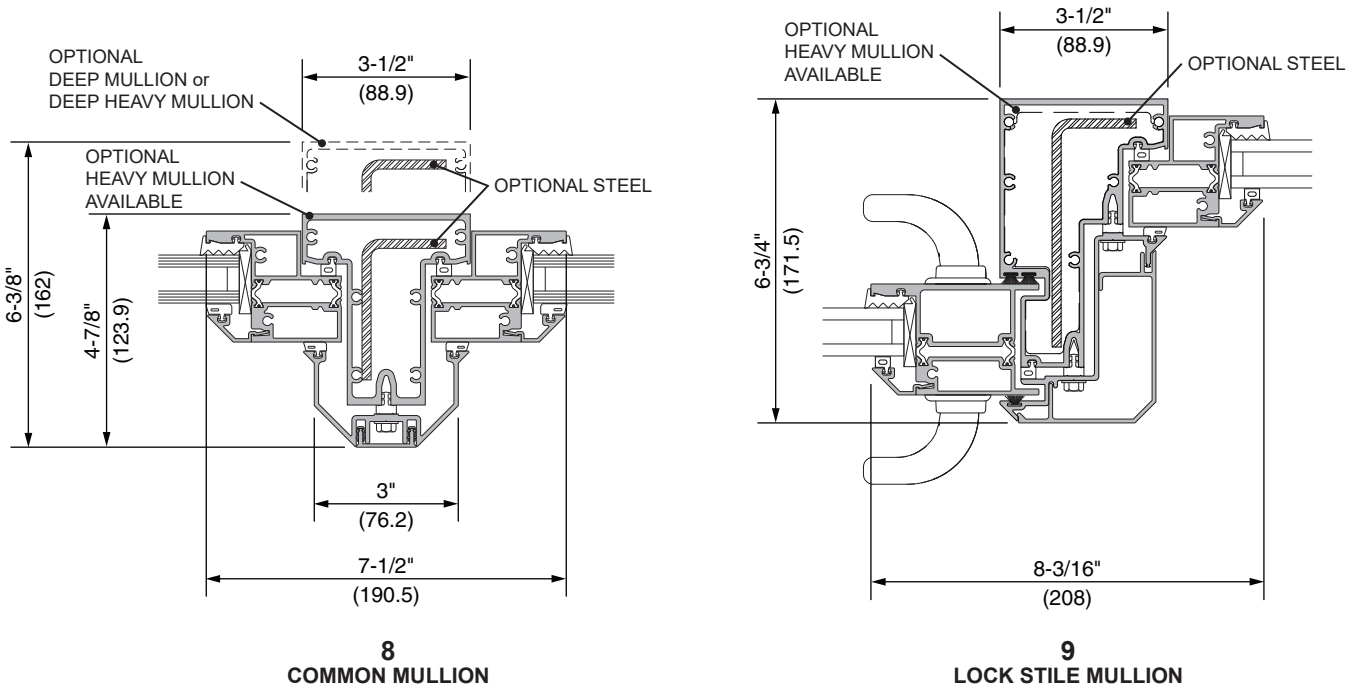
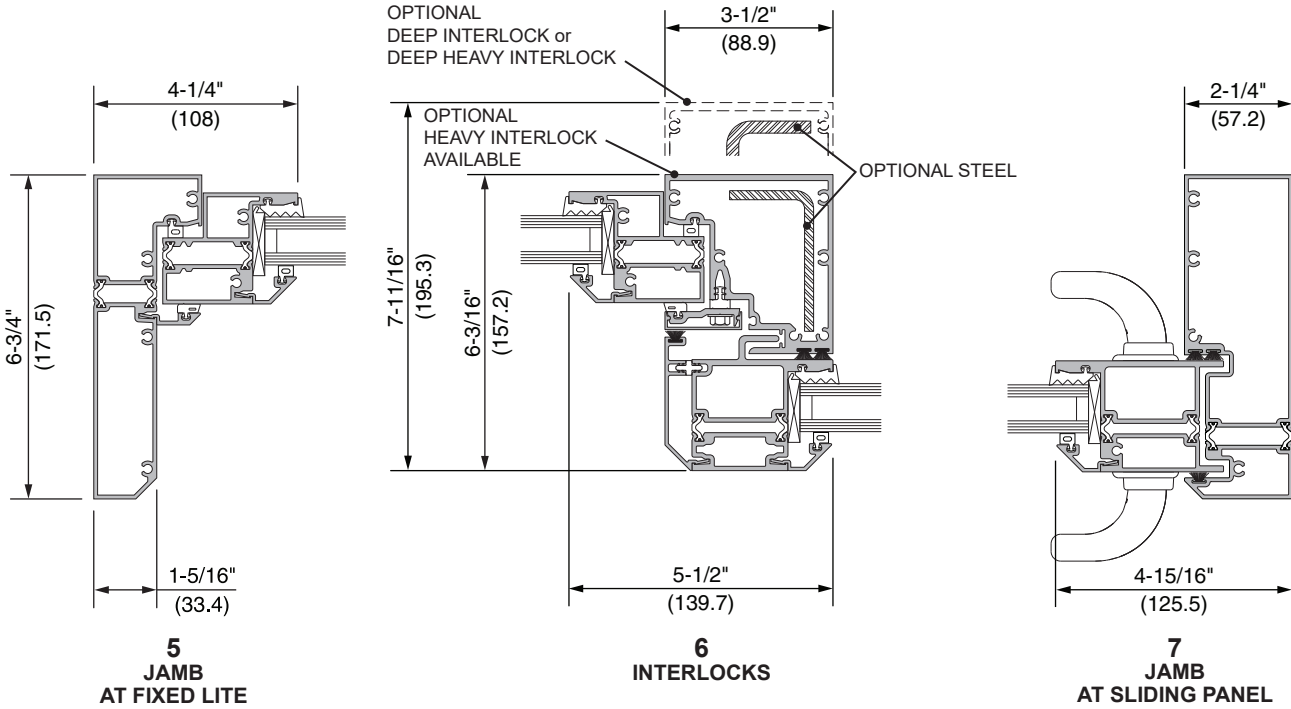
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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**AA®3200HP  
HIGH PERFORMANCE GLAZING**

**DRY GLAZED - 1" INFILL  
(NON-IMPACT) WITH "SUB SASH"**



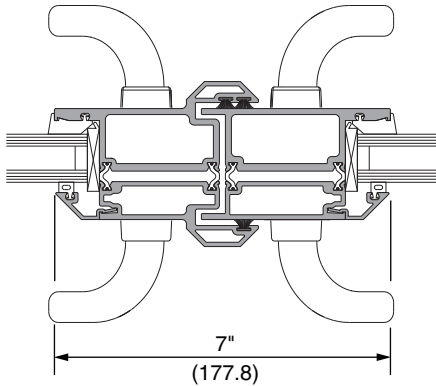
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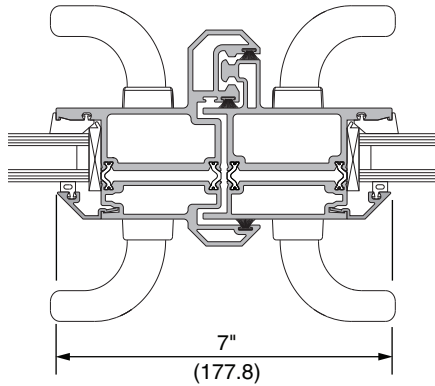
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## AA®3200HP HIGH PERFORMANCE GLAZING

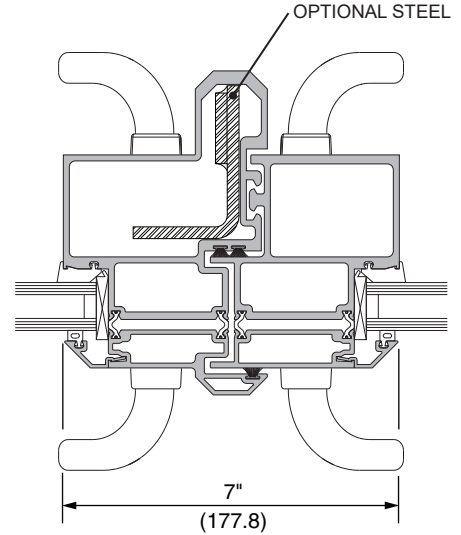
DRY GLAZED - 1" INFILL  
(NON-IMPACT) WITH "SUB SASH"



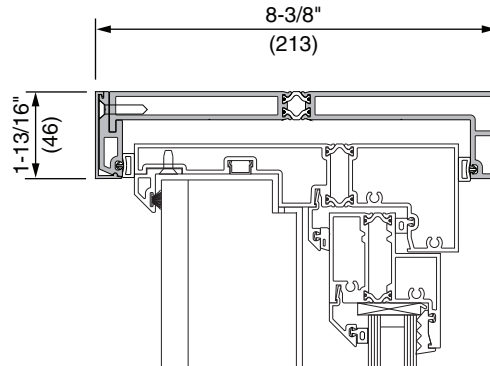
**10**  
STANDARD  
MEETING STILES



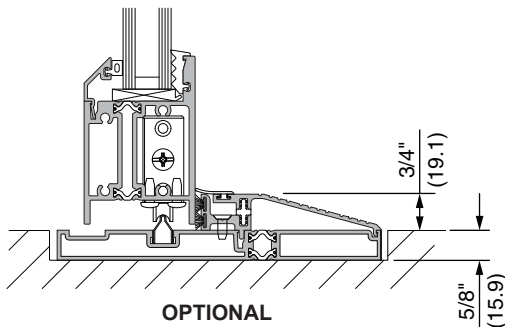
**10A**  
MID-RANGE  
MEETING STILES



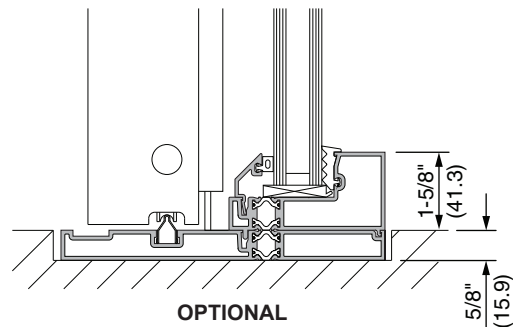
**10B**  
MAXIMUM RANGE  
MEETING STILES



**OPTIONAL  
HEAD RECEPTOR  
(EXTERIOR INSTALLED)**



**OPTIONAL  
LOW PROFILE SILL  
(SLIDING PANEL)**



**OPTIONAL  
LOW PROFILE SILL  
(FIXED PANEL)**

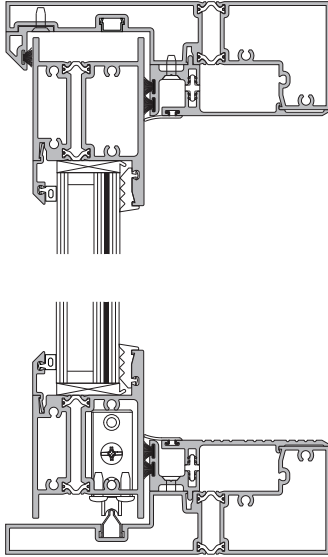
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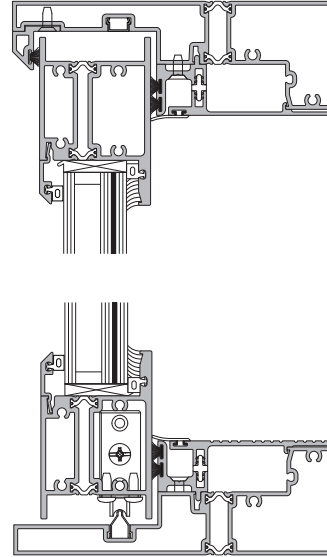
Additional information and CAD details are available at [www.kawneer.com](http://www.kawneer.com)

**AA®3200IR  
HURRICANE RESISTANT GLAZING**

**DRY GLAZED - 1-5/16" INFILL**

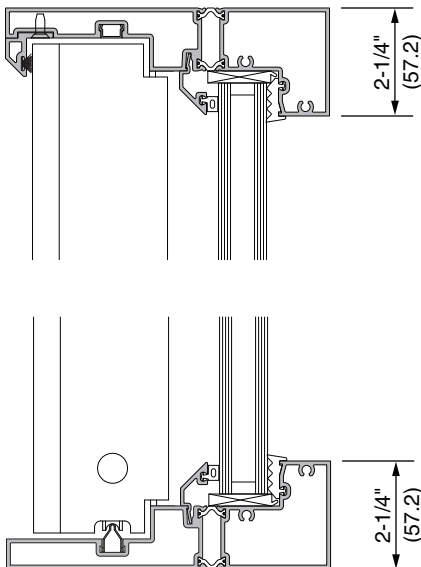


**WET GLAZED - 1-5/16" INFILL**

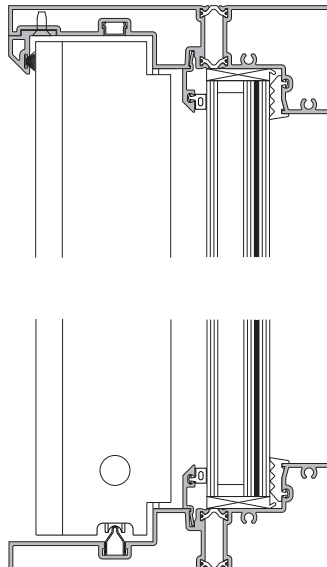


**AA®3200HP and AA®3200IR  
OPTIONAL "FIELD GLAZED" FIXED LITE**

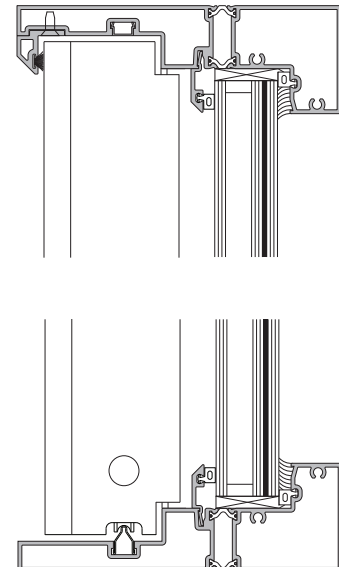
**AA®3200HP  
DRY GLAZED - 1" INFILL**



**AA®3200IR  
DRY GLAZED - 1-5/16" INFILL**



**AA®3200IR  
WET GLAZED - 1-5/16" INFILL**



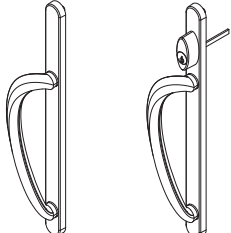
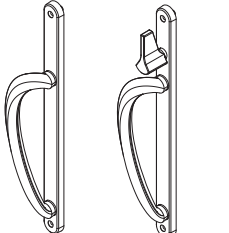
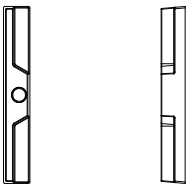
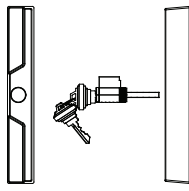
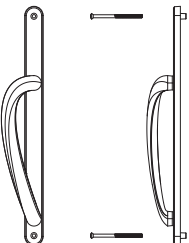
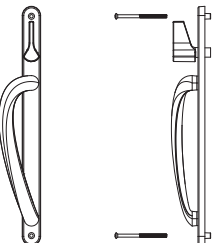
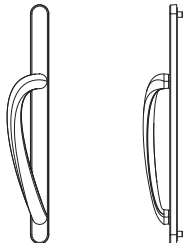
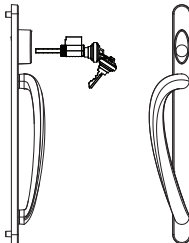
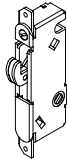
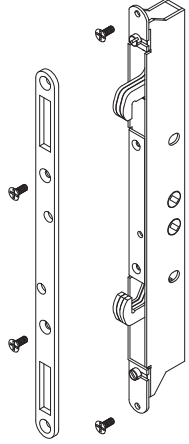
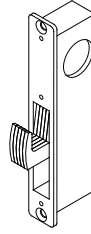
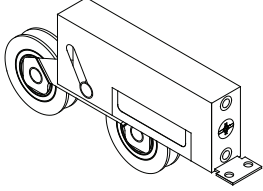
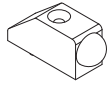
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STANDARD EXTERIOR PULLS		STANDARD INTERIOR PULLS	
 <b>Signature Coastal Pull *</b> (Required ≤ 4 miles from coast)		 <b>Signature Coastal Pull *</b> (Required ≤ 4 miles from coast)	
 <b>Finger Pull - Blank</b>	 <b>Finger Pull with Cylinder</b>	 <b>Signature Pull - Blank</b>	 <b>Signature Pull with Lever</b>
OPTIONAL EXTERIOR PULLS		LOCKING OPTIONS	
 <b>Signature Pull - Blank</b>	 <b>Signature Pull with Cylinder</b>	 <b>1 Point Lock</b>	 <b>2 Point Lock</b>
STANDARD CASTER		 <b>MS Hookbolt Lock</b>  <b>Note:</b> Hookbolt lock standard with OXXO units. Optional for other configurations.	
 <b>Stainless Steel Caster</b>			
HARDWARE FINISHES		BUMPER	
<p>SATIN BLACK - Powder Coat Paint</p> <p>SATIN WHITE - Powder Coat Paint</p> <p>SILVER GRAY - Liquid Paint</p> <p>* PVD SATIN NICKEL - Plated                      (* Signature Coastal Pull only)</p>		 <b>Stainless Steel Bumper</b>	

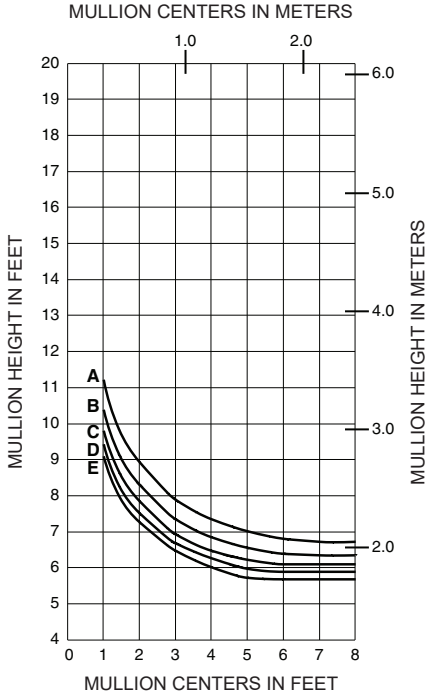
## WIND LOAD CHARTS

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.

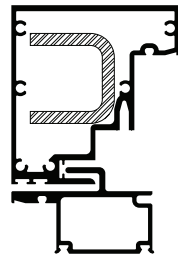
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	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	80 PSF (3830)	133 PSF (6380)
B =	100 PSF (4790)	167 PSF (7980)
C =	120 PSF (5750)	200 PSF (9580)
D =	135 PSF (6460)	225 PSF (10770)
E =	150 PSF (7180)	250 PSF (11970)



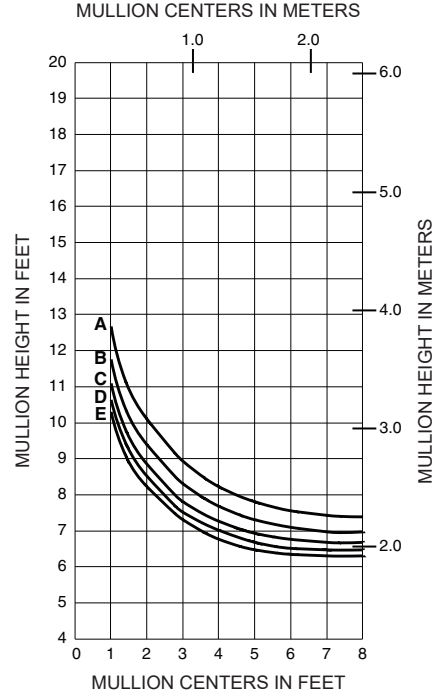
**WITHOUT HORIZONTALS**



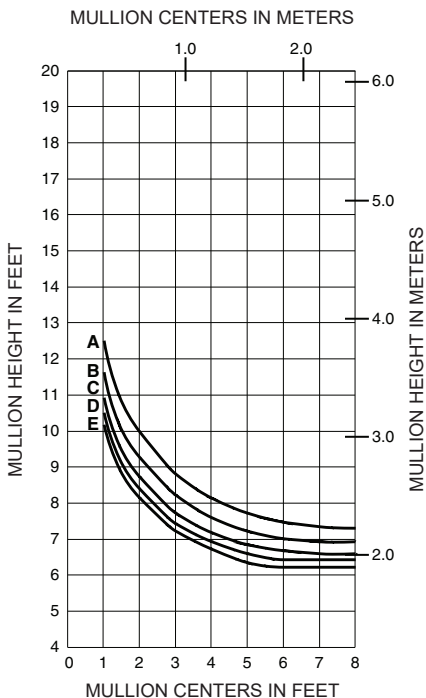
**594010 STANDARD INTERLOCK MULLION**

$I_A = 3.689$   
 $S_A = 1.822$

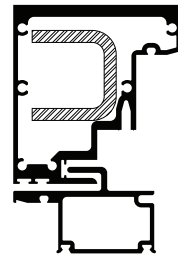
**594485 STEEL**  
 $I_S = 0.573$   
 $S_S = 0.611$



**WITH STEEL REINFORCING WITHOUT HORIZONTALS**



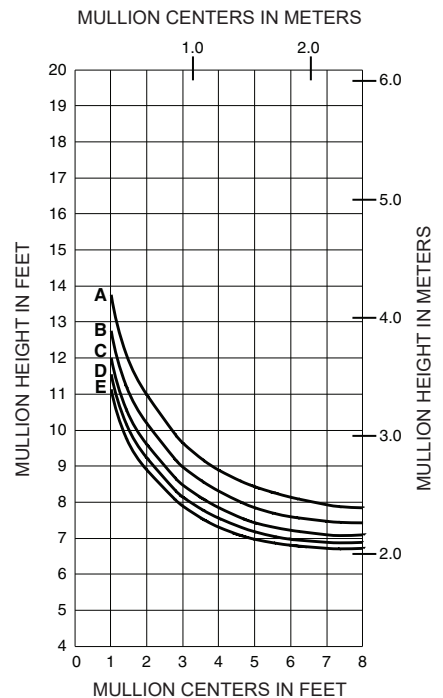
**WITHOUT HORIZONTALS**



**594011 HEAVY WEIGHT INTERLOCK MULLION**

$I_A = 5.164$   
 $S_A = 2.375$

**594485 STEEL**  
 $I_S = 0.573$   
 $S_S = 0.611$

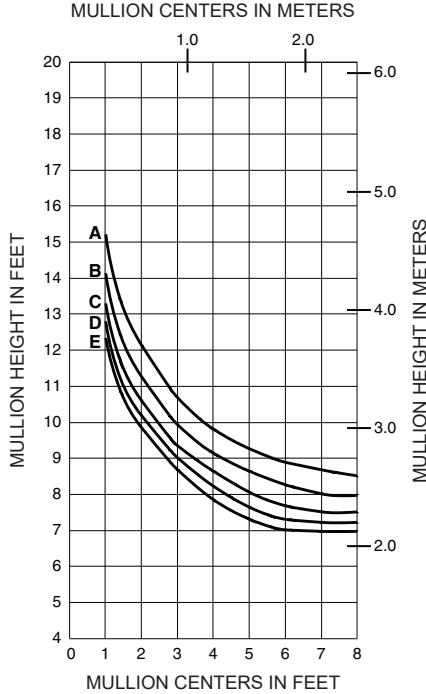


**WITH STEEL REINFORCING WITHOUT HORIZONTALS**

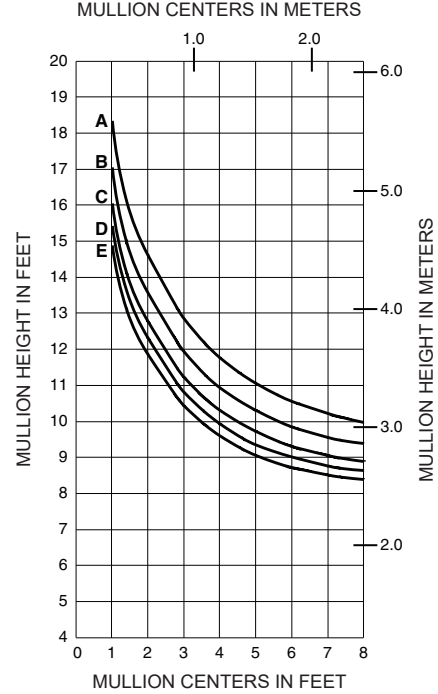
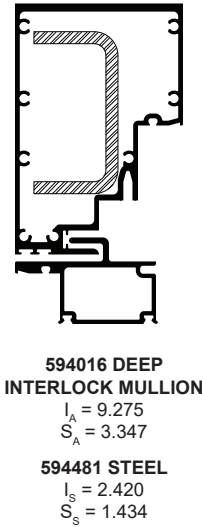
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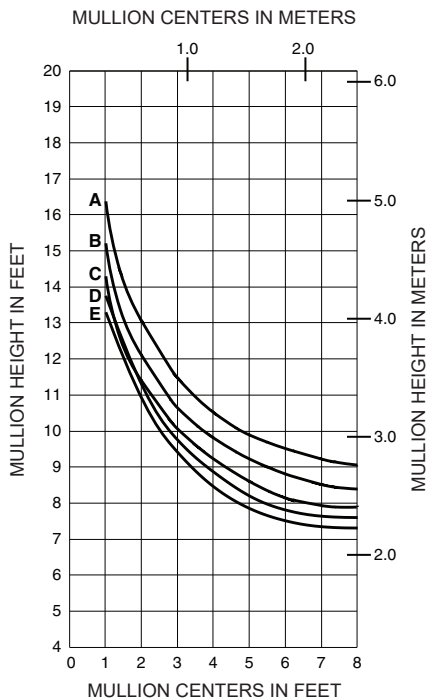
	Allowable Stress Design Load	LRFD Ultimate Design Load
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C =	120 PSF (5750)	200 PSF (9580)
D =	135 PSF (6460)	225 PSF (10770)
E =	150 PSF (7180)	250 PSF (11970)



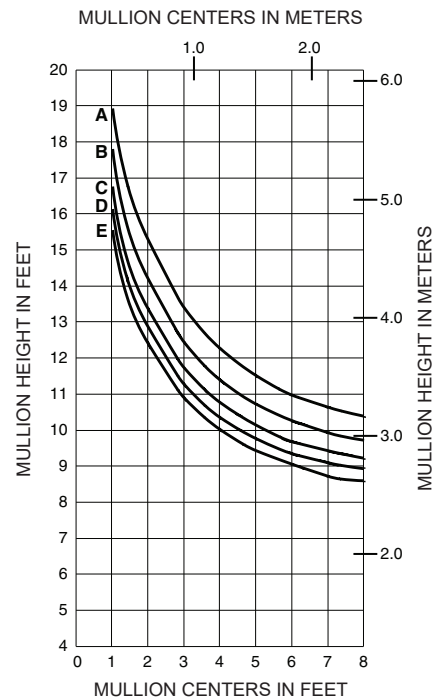
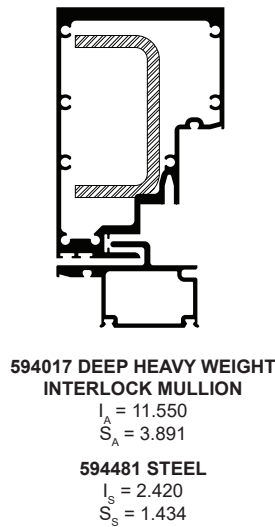
**WITHOUT HORIZONTALS**



**WITH STEEL REINFORCING WITHOUT HORIZONTALS**



**WITHOUT HORIZONTALS**

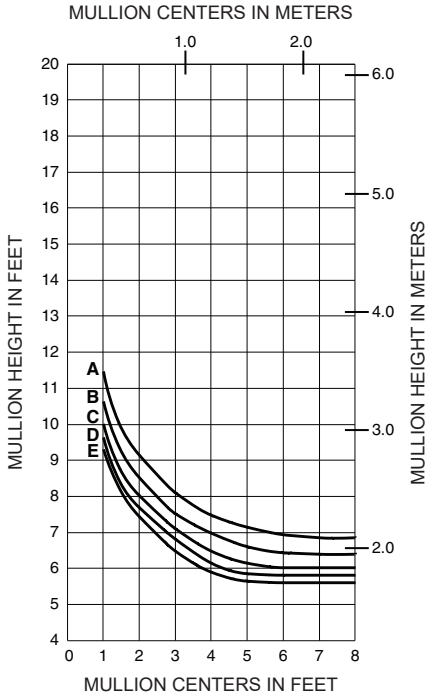


**WITH STEEL REINFORCING WITHOUT HORIZONTALS**

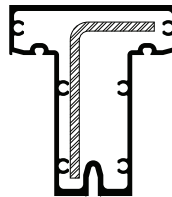
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**WITHOUT HORIZONTALS**

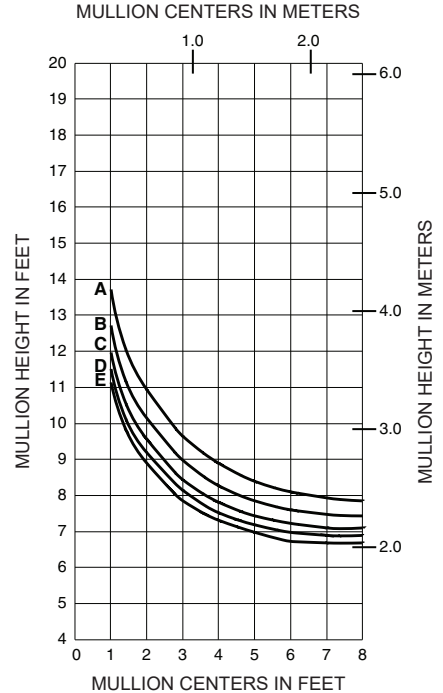


**594012 STANDARD COMMON MULLION**

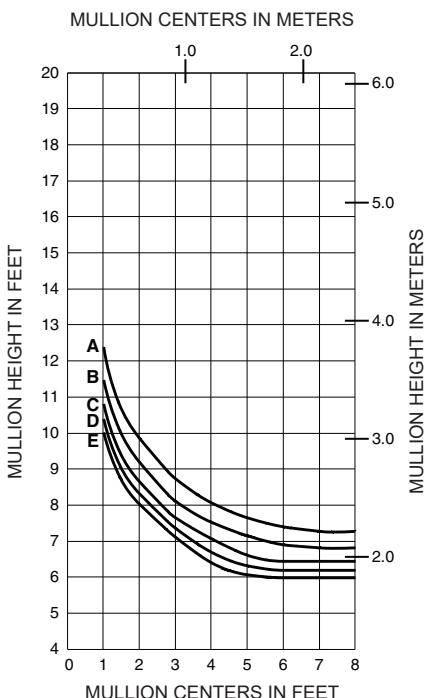
$I_A = 3.945$   
 $S_A = 1.738$

**594486 STEEL**

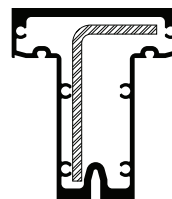
$I_S = 0.976$   
 $S_S = 0.486$



**WITH STEEL REINFORCING WITHOUT HORIZONTALS**



**WITHOUT HORIZONTALS**

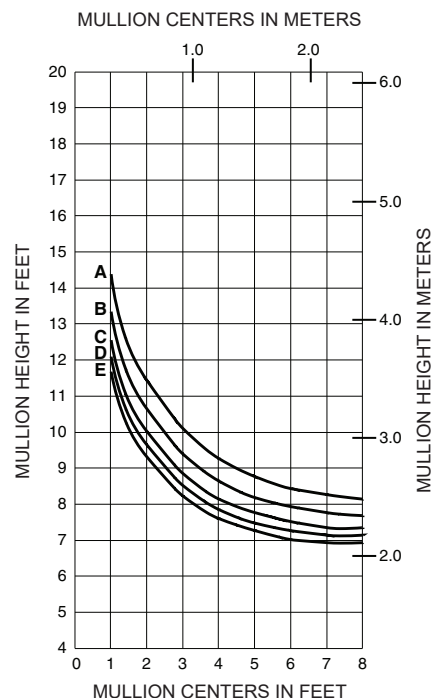


**594013 HEAVY WEIGHT COMMON MULLION**

$I_A = 4.964$   
 $S_A = 2.105$

**594486 STEEL**

$I_S = 0.976$   
 $S_S = 0.486$

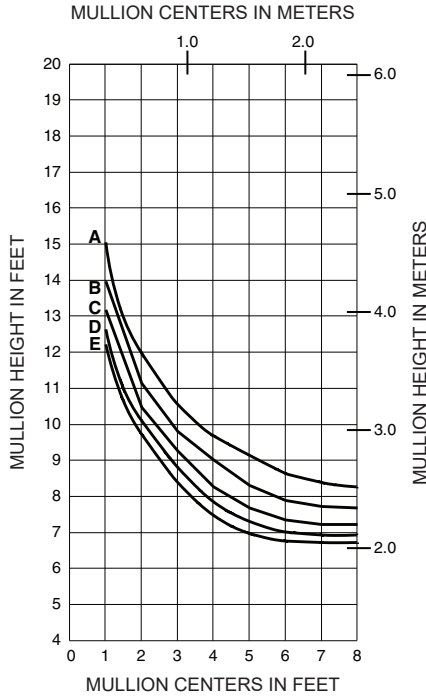


**WITH STEEL REINFORCING WITHOUT HORIZONTALS**

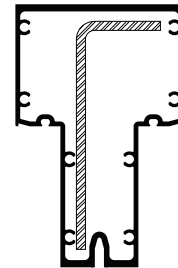
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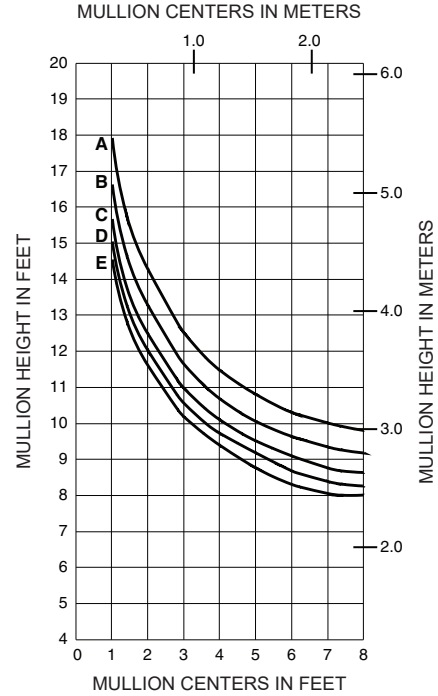
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	80 PSF (3830)	133 PSF (6380)
B =	100 PSF (4790)	167 PSF (7980)
C =	120 PSF (5750)	200 PSF (9580)
D =	135 PSF (6460)	225 PSF (10770)
E =	150 PSF (7180)	250 PSF (11970)



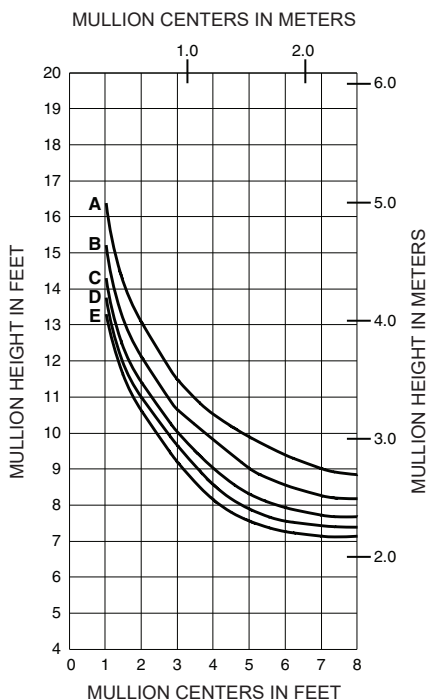
**WITHOUT HORIZONTALS**



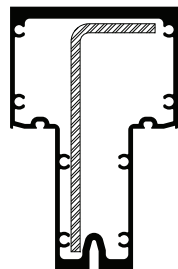
**594018 DEEP COMMON MULLION**  
 $I_A = 8.969$   
 $S_A = 2.997$   
**594482 STEEL**  
 $I_S = 2.138$   
 $S_S = 0.821$



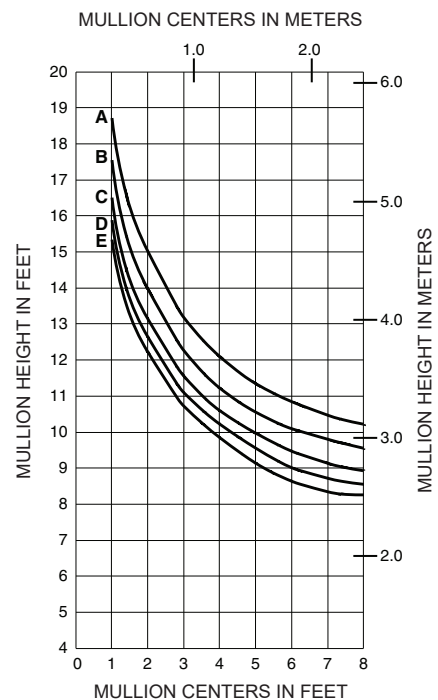
**WITH STEEL REINFORCING WITHOUT HORIZONTALS**



**WITHOUT HORIZONTALS**



**594019 DEEP HEAVY WEIGHT COMMON MULLION**  
 $I_A = 11.537$   
 $S_A = 3.625$   
**594482 STEEL**  
 $I_S = 2.138$   
 $S_S = 0.821$

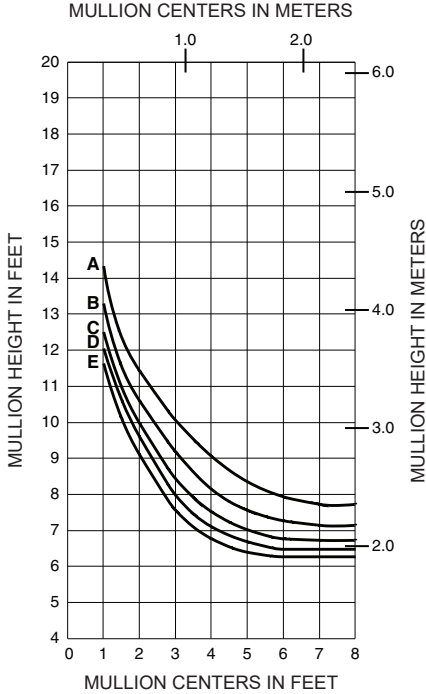


**WITH STEEL REINFORCING WITHOUT HORIZONTALS**

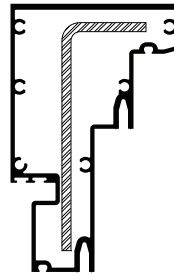
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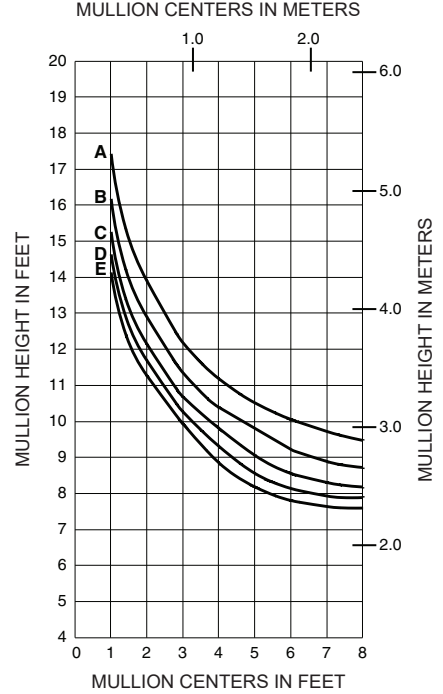
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	80 PSF (3830)	133 PSF (6380)
B =	100 PSF (4790)	167 PSF (7980)
C =	120 PSF (5750)	200 PSF (9580)
D =	135 PSF (6460)	225 PSF (10770)
E =	150 PSF (7180)	250 PSF (11970)



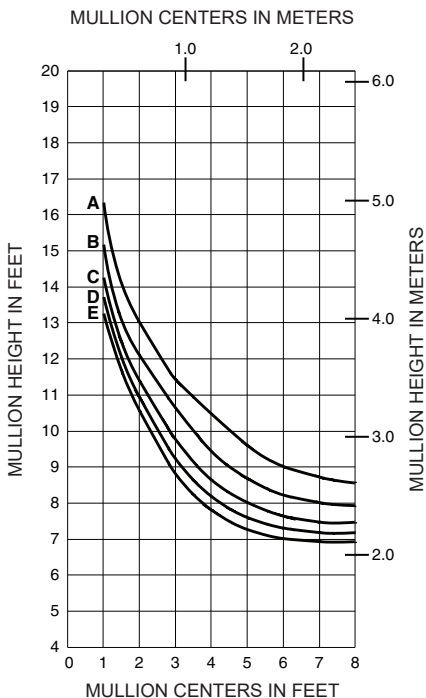
**WITHOUT HORIZONTALS**



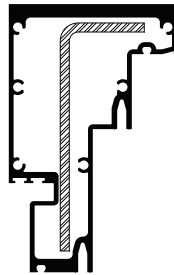
**594014 STANDARD LOCK MULLION**  
 $I_A = 7.743$   
 $S_A = 2.422$   
**594482 STEEL**  
 $I_S = 2.138$   
 $S_S = 0.821$



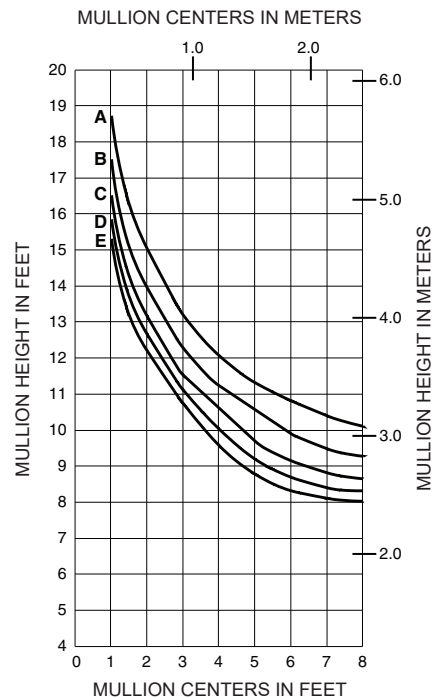
**WITH STEEL REINFORCING WITHOUT HORIZONTALS**



**WITHOUT HORIZONTALS**



**594015 HEAVY WEIGHT LOCK MULLION**  
 $I_A = 11.469$   
 $S_A = 3.310$   
**594482 STEEL**  
 $I_S = 2.138$   
 $S_S = 0.821$

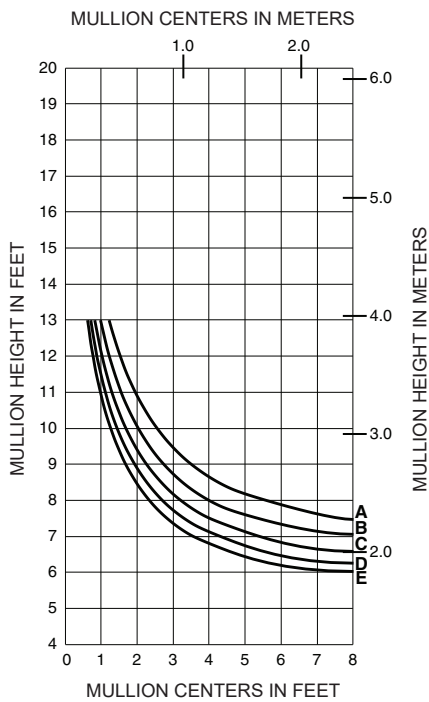


**WITH STEEL REINFORCING WITHOUT HORIZONTALS**

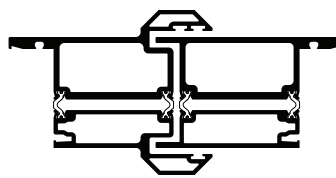
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	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	80 PSF (3830)	133 PSF (6380)
B =	100 PSF (4790)	167 PSF (7980)
C =	120 PSF (5750)	200 PSF (9580)
D =	135 PSF (6460)	225 PSF (10770)
E =	150 PSF (7180)	250 PSF (11970)

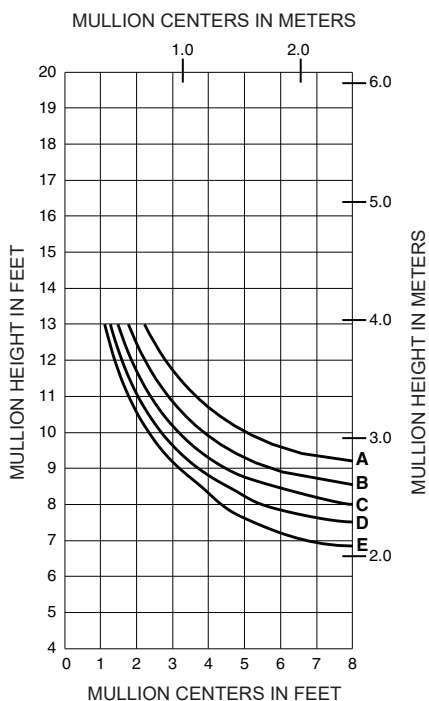


**WITHOUT HORIZONTALS**

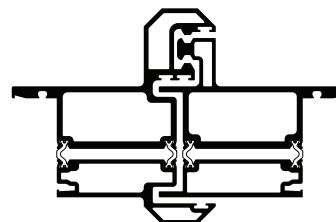


**594128/594129 LIGHT WEIGHT MEETING STILES**

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



**WITHOUT HORIZONTALS**



**594124/594125 MID WEIGHT MEETING STILES**

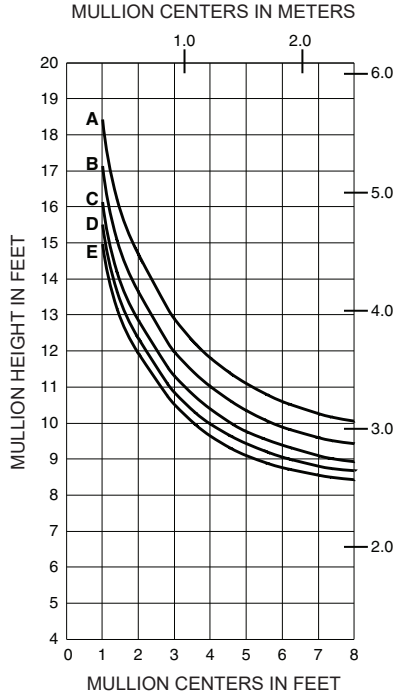
NOTE:  
WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

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

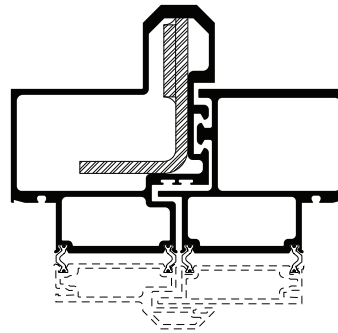
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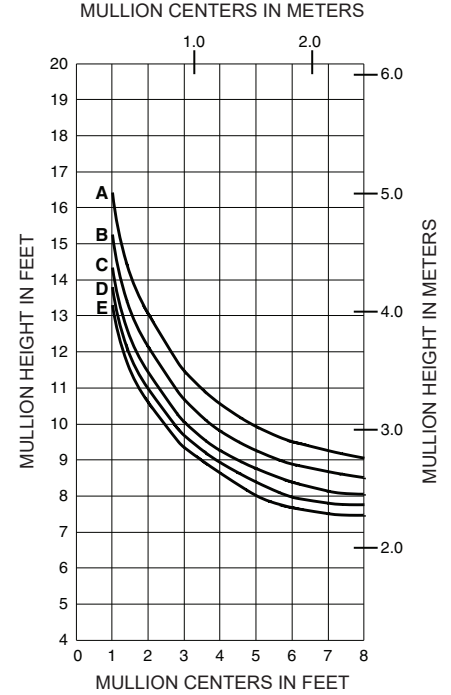
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	80 PSF (3830)	133 PSF (6380)
B =	100 PSF (4790)	167 PSF (7980)
C =	120 PSF (5750)	200 PSF (9580)
D =	135 PSF (6460)	225 PSF (10770)
E =	150 PSF (7180)	250 PSF (11970)



**WITH STEEL REINFORCING  
WITHOUT HORIZONTALS**



**594126/594127 DEEP HEAVY WEIGHT  
MEETING STILES**  
 $I_A = 11.626$   
 $S_A = 4.169$   
**STEEL REINFORCING**  
 $I_S = 1.707$   
 $S_S = 0.939$

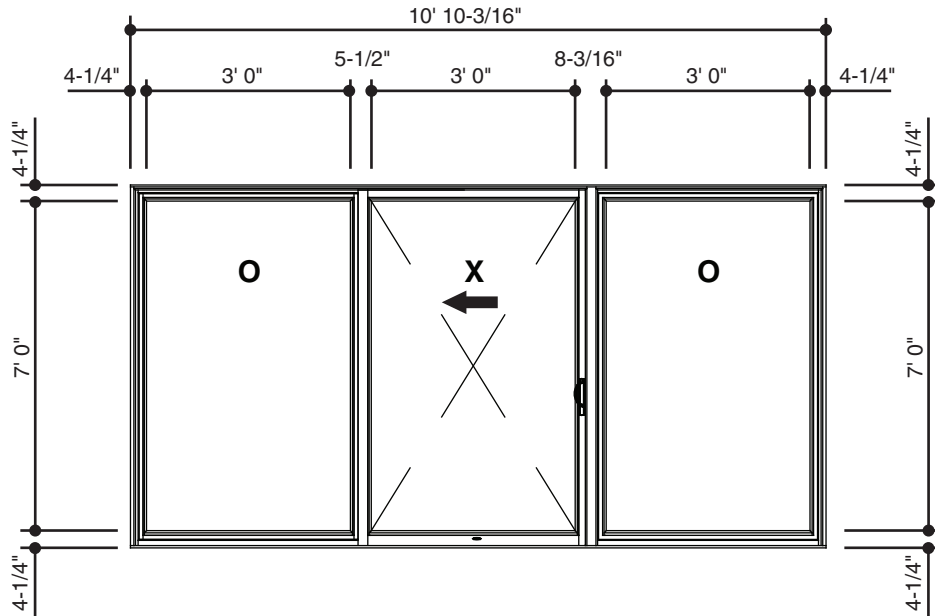


**WITH STEEL REINFORCING  
WITH HORIZONTALS**

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**Project Specific U-Factor  
Example Calculation**  
(Based on OXO Sliding Door Unit)



### Vision Area

Example Glass U-Factor	= 0.42 Btu/(ft <sup>2</sup> ·h·°F)
Total Daylight (Vision) Area	= 3(3' x 7') = 63 ft <sup>2</sup>
Projected Total Area	= 7.71' x 10.85' = 83.65 ft <sup>2</sup>
Percent of Vision Glass	= (Total Daylight Area ÷ Projected Total Area)100 = (63 ÷ 83.65)100 = 75%

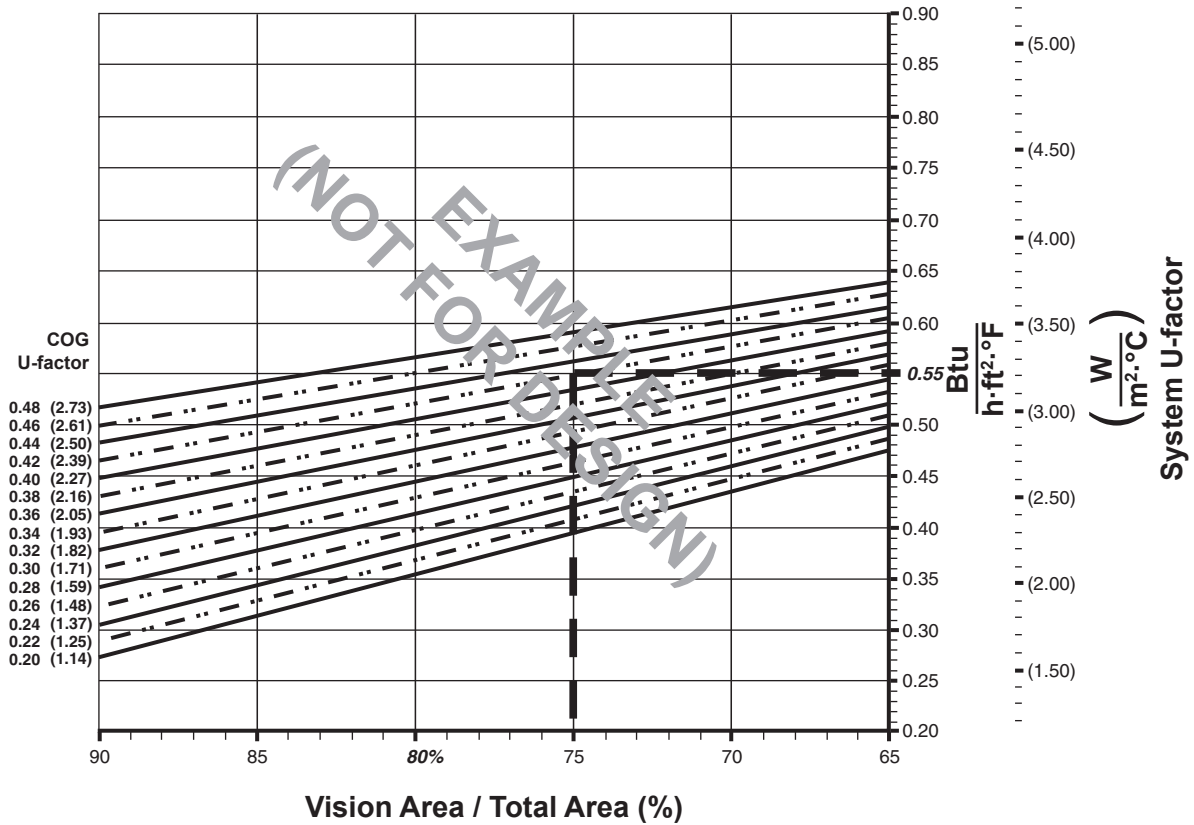
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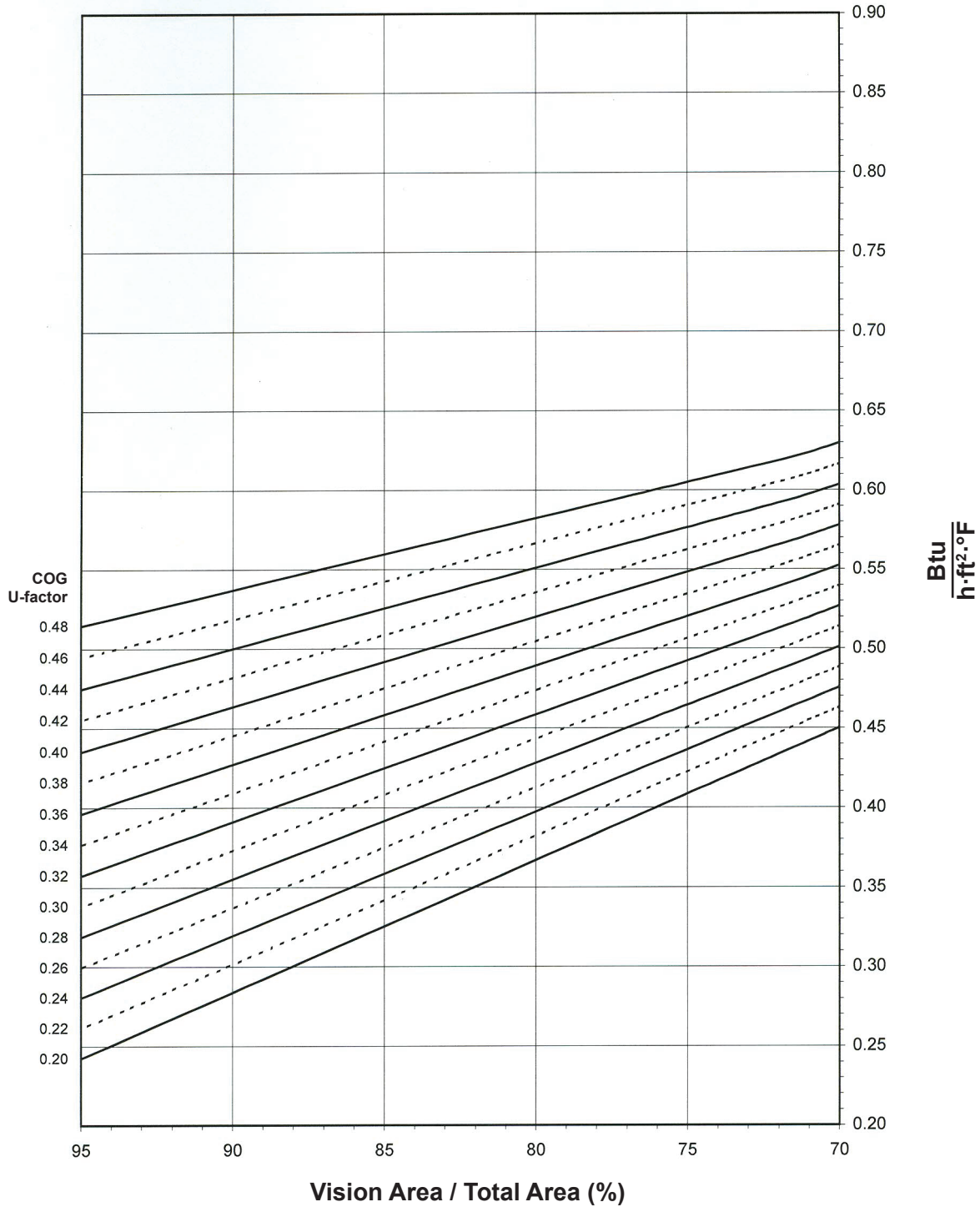
**System U-Factor vs Percent of Vision Area**



**Based on a OXO Unit of 75% vision glass and center of glass U-Factor of 0.42, system U-Factor is equal to 0.55 Btu/(h·ft²·°F)**

OX UNIT "SUB SASH"

System U-Factor vs Percent of Vision Area



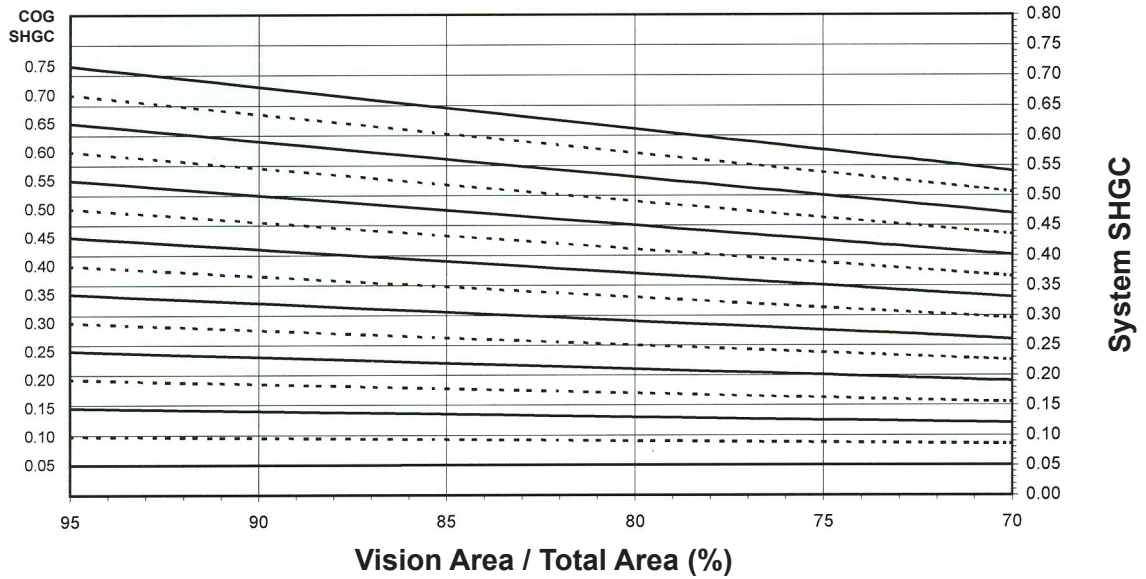
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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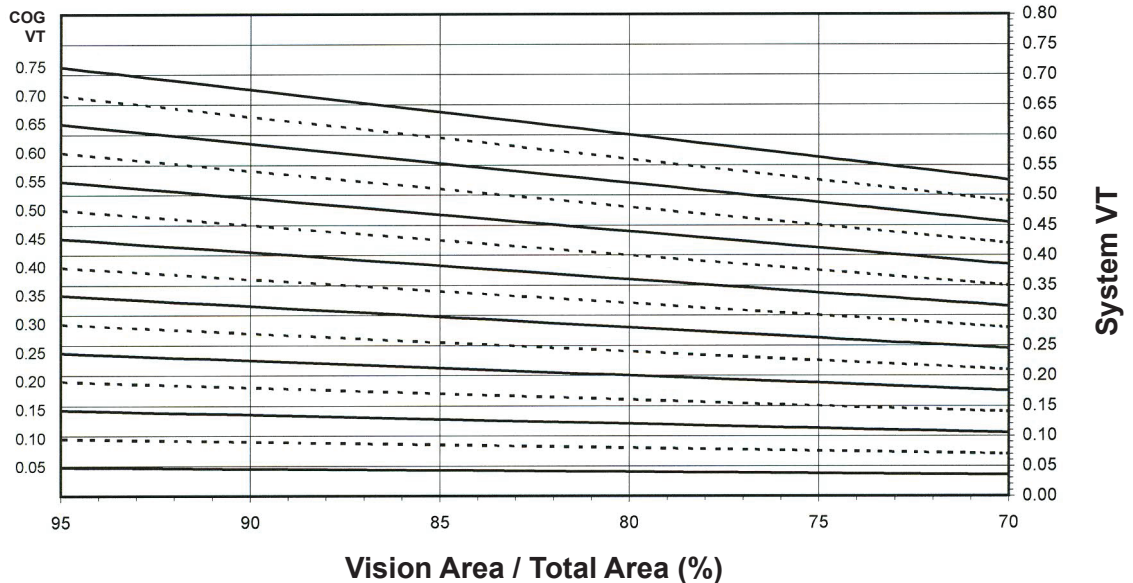
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OX UNIT "SUB SASH"

System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



System Visible Transmittance (VT) vs Percent of Vision Area



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

Glass U-Factor <sup>3</sup>	Overall U-Factor <sup>4</sup>
0.48	0.62
0.46	0.61
0.44	0.59
0.42	0.58
0.40	0.57
0.38	0.55
0.36	0.54
0.34	0.53
0.32	0.51
0.30	0.50
0.28	0.49
0.26	0.47
0.24	0.46
0.22	0.45
0.20	0.43

## OX UNIT "SUB SASH"

**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 Matrix <sup>2</sup>

Glass SHGC <sup>3</sup>	Overall SHGC <sup>4</sup>
0.75	0.55
0.70	0.52
0.65	0.48
0.60	0.45
0.55	0.41
0.50	0.37
0.45	0.34
0.40	0.30
0.35	0.27
0.30	0.23
0.25	0.19
0.20	0.16
0.15	0.12
0.10	0.09
0.05	0.05

Visible Transmittance <sup>2</sup>

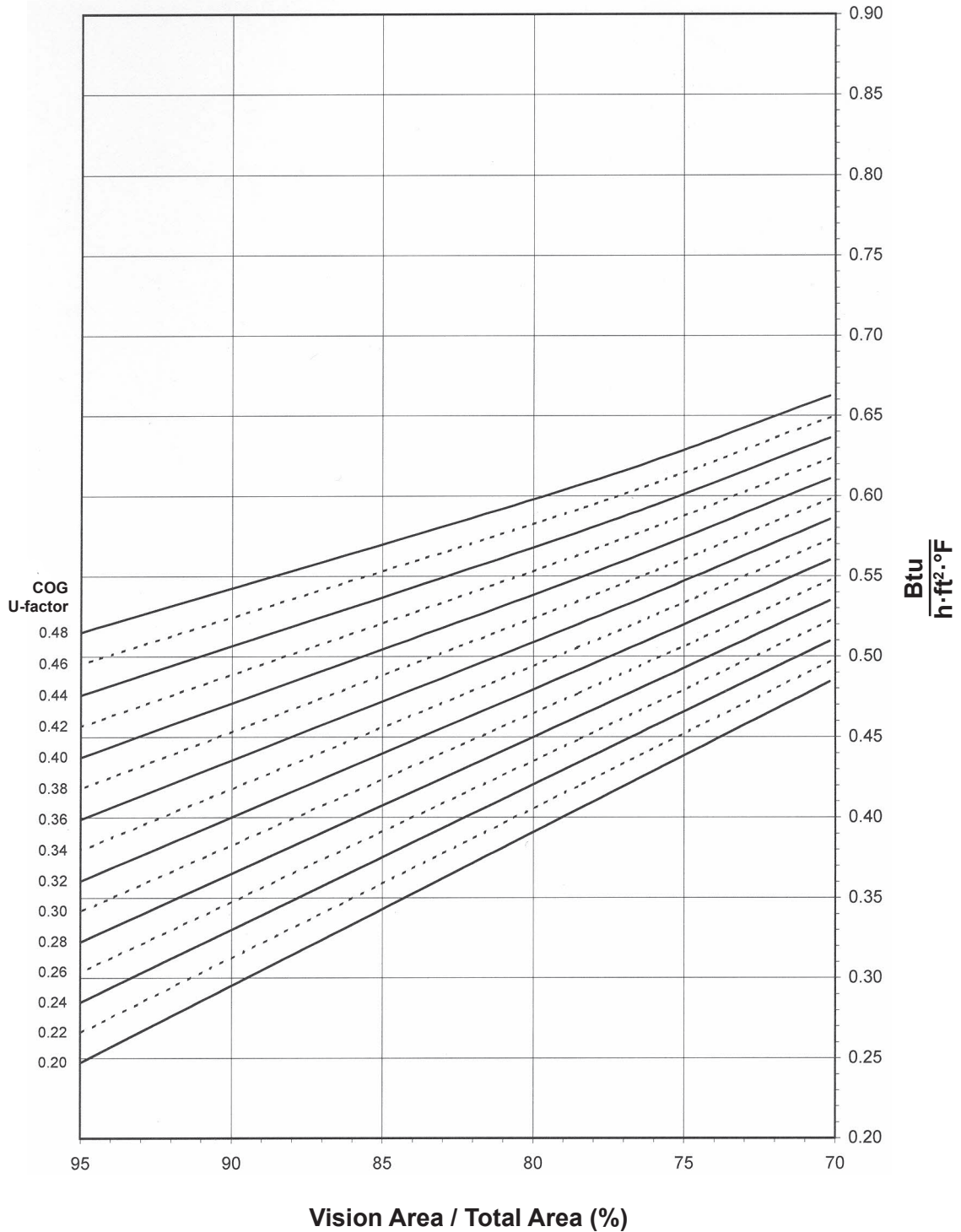
Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
0.75	0.54
0.70	0.50
0.65	0.47
0.60	0.43
0.55	0.40
0.50	0.36
0.45	0.32
0.40	0.29
0.35	0.25
0.30	0.22
0.25	0.18
0.20	0.14
0.15	0.11
0.10	0.07
0.05	0.04

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OX UNIT "FIELD GLAZED"

System U-Factor vs Percent of Vision Area

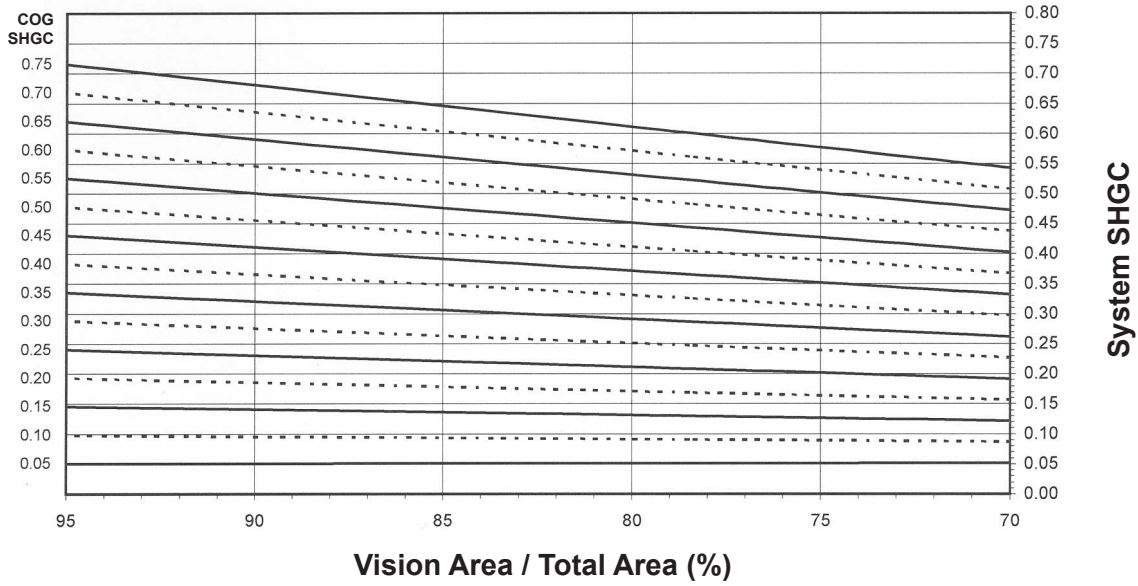


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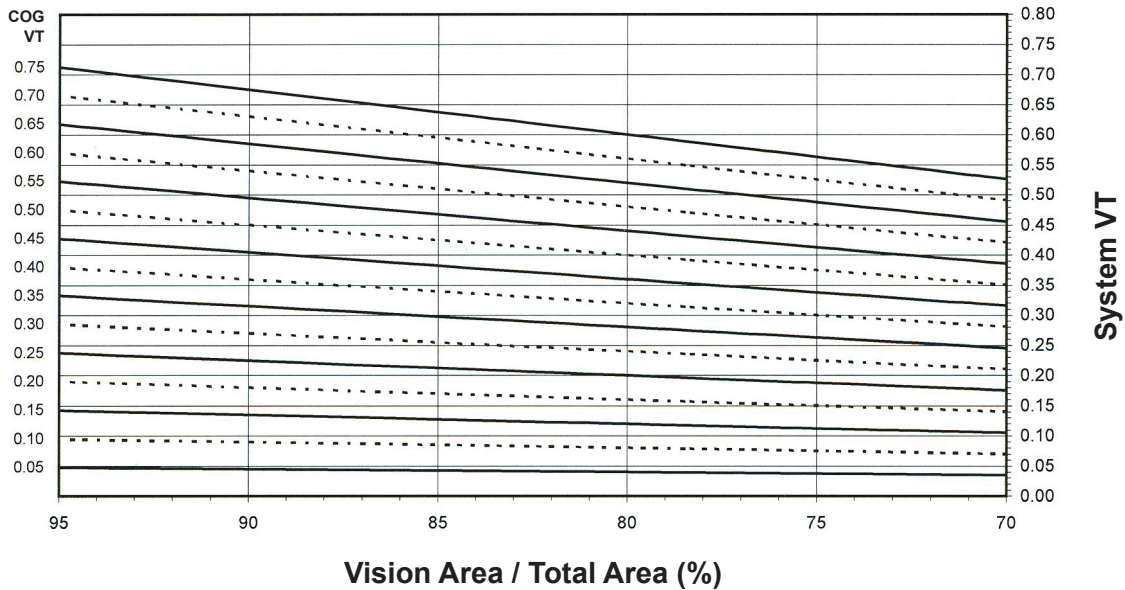
OX UNIT "FIELD GLAZED"

System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



System SHGC

System Visible Transmittance (VT) vs Percent of Vision Area



System VT

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**Thermal Transmittance <sup>1</sup> (BTU/hr • ft <sup>2</sup> • °F)**

**OX UNIT "FIELD GLAZED"**

Glass U-Factor <sup>3</sup>	Overall U-Factor <sup>4</sup>
0.48	0.61
0.46	0.59
0.44	0.58
0.42	0.56
0.40	0.55
0.38	0.53
0.36	0.52
0.34	0.51
0.32	0.49
0.30	0.48
0.28	0.46
0.26	0.45
0.24	0.43
0.22	0.42
0.20	0.40

**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 Matrix <sup>2</sup>**

Glass SHGC <sup>3</sup>	Overall SHGC <sup>4</sup>
0.75	0.60
0.70	0.56
0.65	0.56
0.60	0.48
0.55	0.44
0.50	0.40
0.45	0.37
0.40	0.33
0.35	0.29
0.30	0.25
0.25	0.21
0.20	0.17
0.15	0.13
0.10	0.09
0.05	0.05

**Visible Transmittance <sup>2</sup>**

Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
0.75	0.59
0.70	0.55
0.65	0.51
0.60	0.47
0.55	0.43
0.50	0.39
0.45	0.35
0.40	0.31
0.35	0.27
0.30	0.24
0.25	0.20
0.20	0.16
0.15	0.12
0.10	0.08
0.05	0.04

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