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 ±135 psf (±6464 Pa)
  - Tested on panel sizes 5' x 8' (1524 x 2438) up to 4' x 10' (1219 x 3048)
  - 6 Large Missile and 2 Small Missile interlayer options
- Water resistance up to 15 psf (718 Pa)
- Available as OX, XO, OXO and OXXO configurations, common mullion allows for additional fixed lites to be stacked (OOXO)
- Accommodates 1" (25.4) and 1-5/16" (33.4) infills
- Polyamide thermal break allows for dual color finish capabilities
- Optional factory glazed sliding panels and sub sash fixed lites
- Optional low rise sill
- Corrosion-resistant stainless steel locks and fasteners
- Permanodic™ anodized finishes in seven choices
- Painted finishes in standard and custom choices

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.

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EC 97911-079

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:

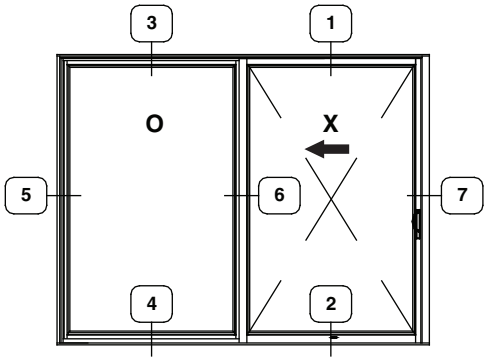
m – meter
cm – centimeter
mm – millimeter
s – second
Pa – pascal
MPa – megapascal

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

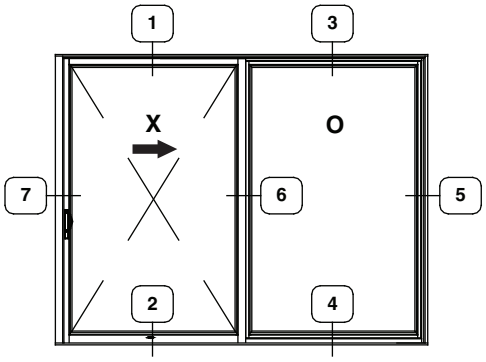
TYPICAL ELEVATIONS

ELEVATIONS ARE NUMBER KEYED TO DETAILS ON THE FOLLOWING PAGES

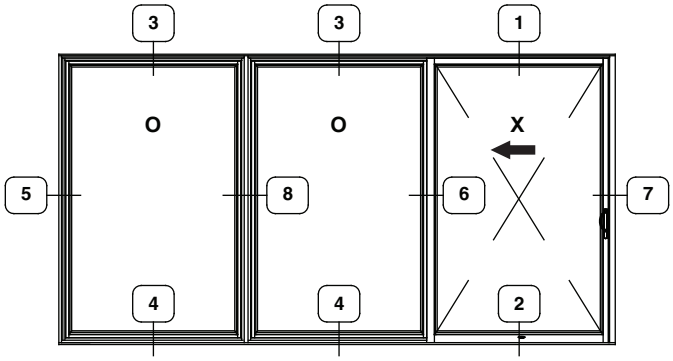
Note: Elevations shown with "Sub-Sash" framing in the fixed lite.
"Field Glazed" option creates a thinner sightline in the fixed lite, shown on page 8.



OX UNIT



XO UNIT



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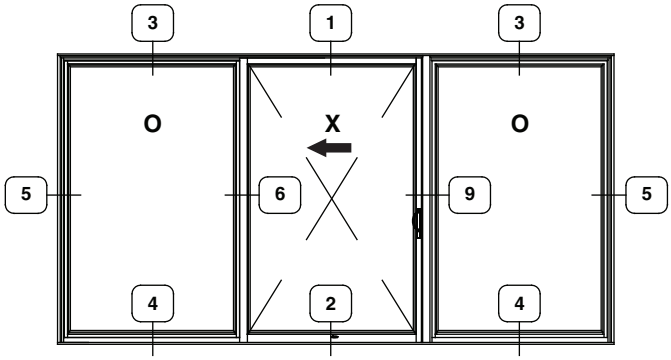

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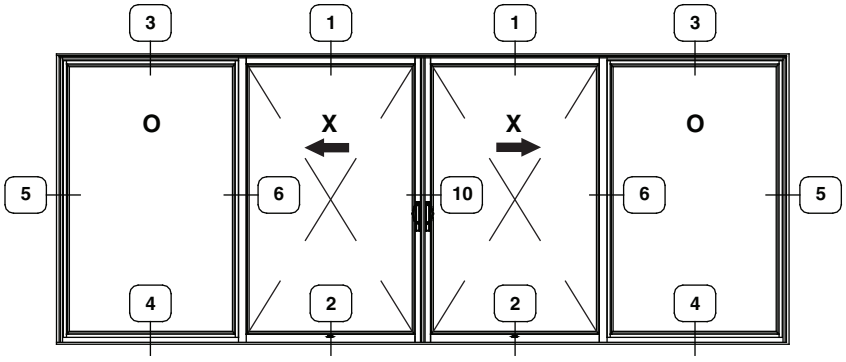
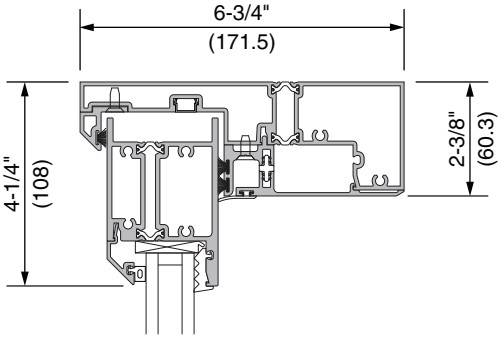


OXXO UNIT

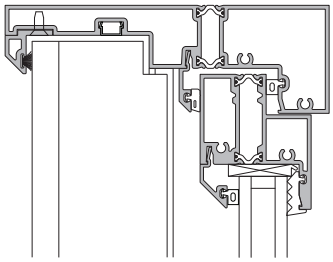
SCALE 3" = 1'-0"

AA™3200HP
HIGH PERFORMANCE GLAZING

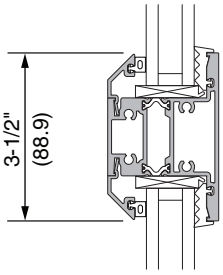
DRY GLAZED - 1" INFILL
(NON-IMPACT) WITH "SUB SASH"



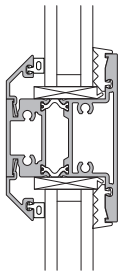
1
HEAD
AT SLIDING PANEL



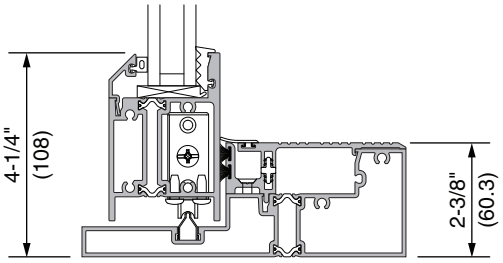
3
HEAD
AT FIXED LITE



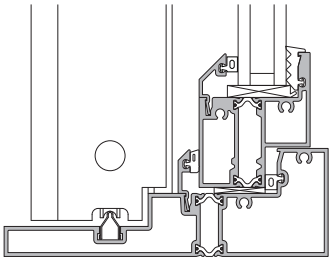
OPTIONAL HORIZONTAL
AT SLIDING PANEL



OPTIONAL HORIZONTAL
AT FIXED LITE



2
SILL
AT SLIDING PANEL

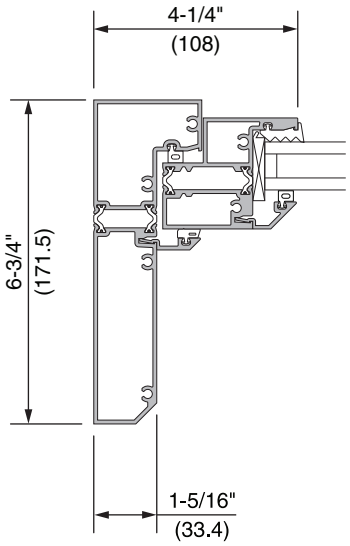


4
SILL
AT FIXED LITE

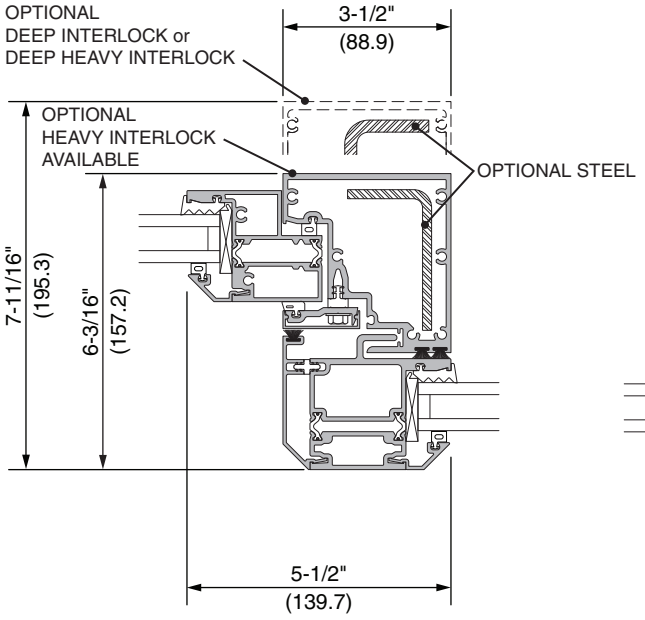
SCALE 3" = 1'-0"

AA™3200HP
HIGH PERFORMANCE GLAZING

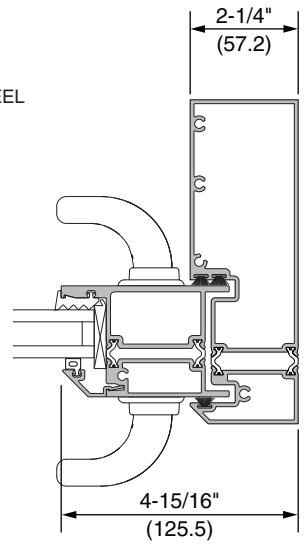
DRY GLAZED - 1" INFILL
(NON-IMPACT) WITH "SUB SASH"



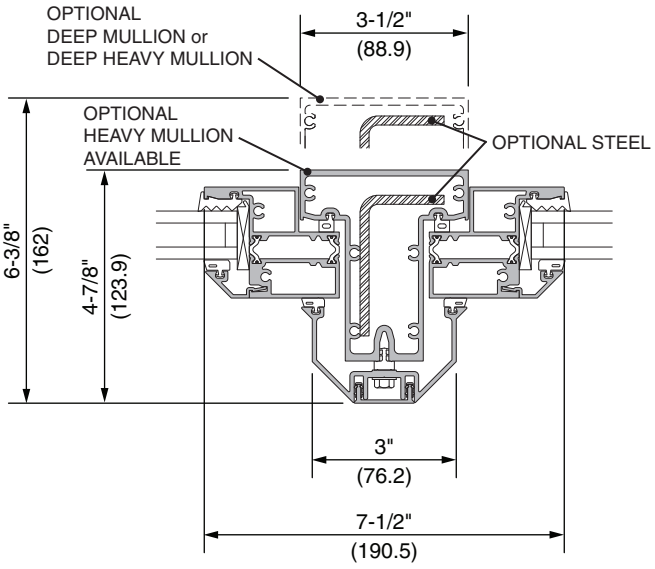
5
JAMB
AT FIXED LITE



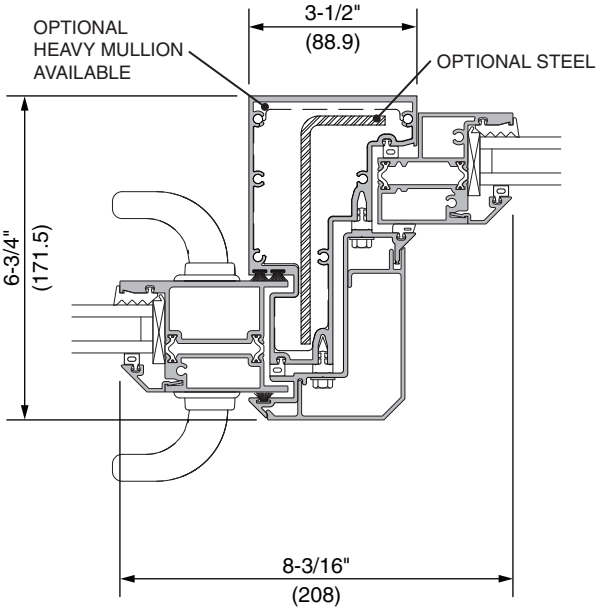
6
INTERLOCKS



7
JAMB
AT SLIDING PANEL



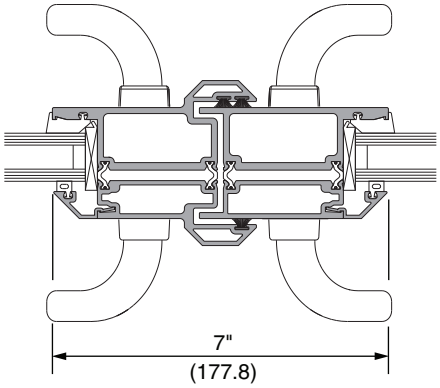
8
COMMON MULLION



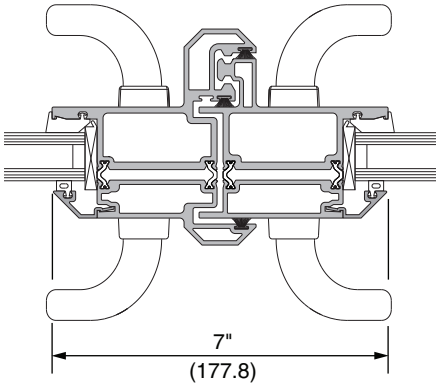
9
LOCK STILE MULLION

AA™3200HP
HIGH PERFORMANCE GLAZING

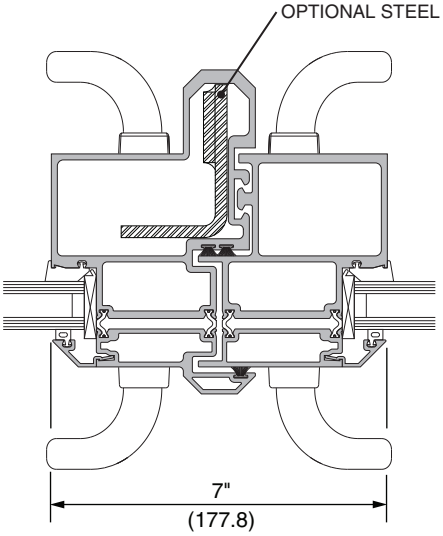
DRY GLAZED - 1" INFILL (NON-IMPACT) WITH "SUB SASH"



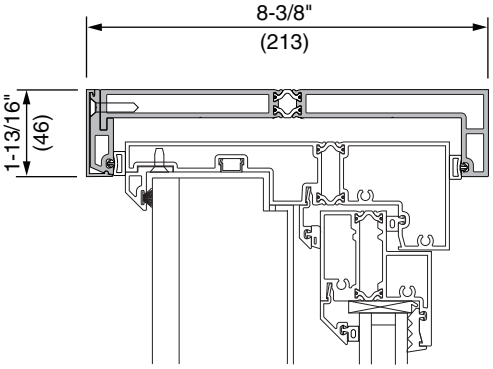
10
STANDARD MEETING STILES



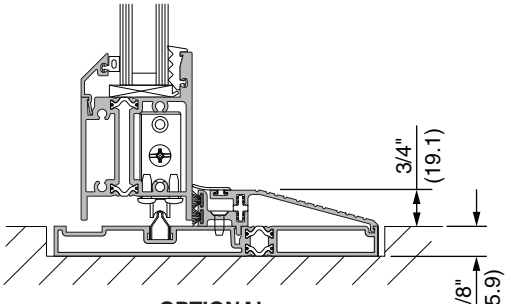
10A
MID-RANGE MEETING STILES



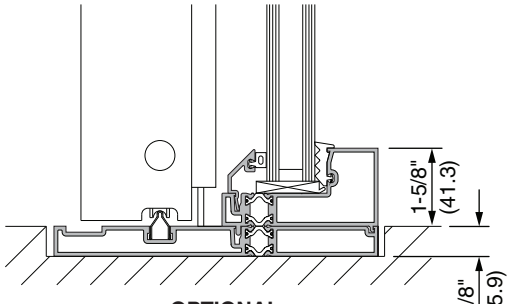
10B
MAXIMUM RANGE MEETING STILES



OPTIONAL HEAD RECEPTOR



OPTIONAL LOW RISE SILL (SLIDING PANEL)

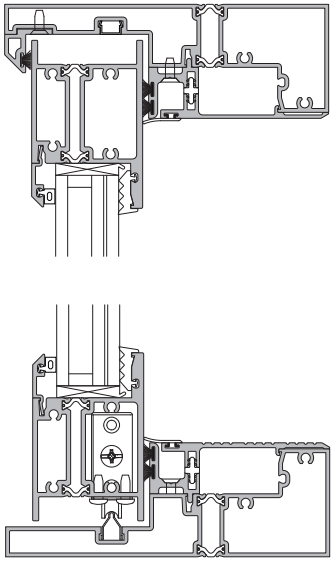


OPTIONAL LOW RISE SILL (FIXED PANEL)

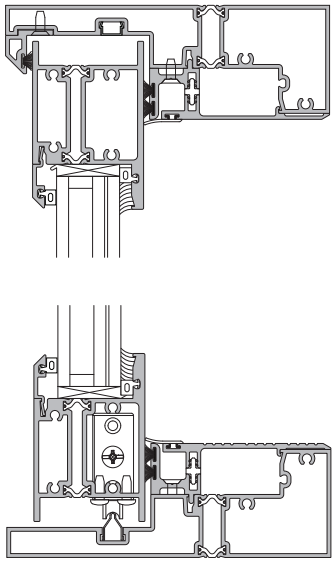
SCALE 3" = 1'-0"

AA™3200IR
HURRICANE RESISTANT GLAZING

DRY GLAZED - 1-5/16" INFILL

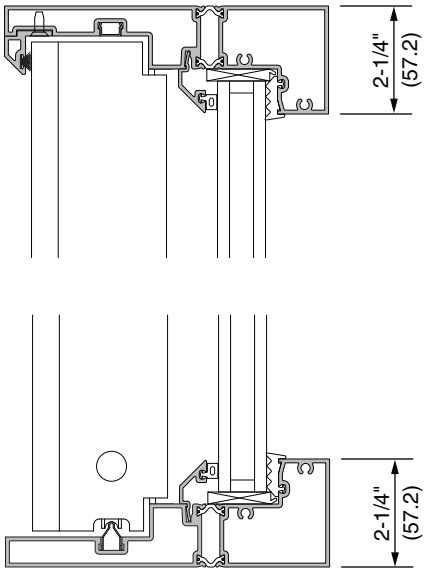


WET GLAZED - 1-5/16" INFILL

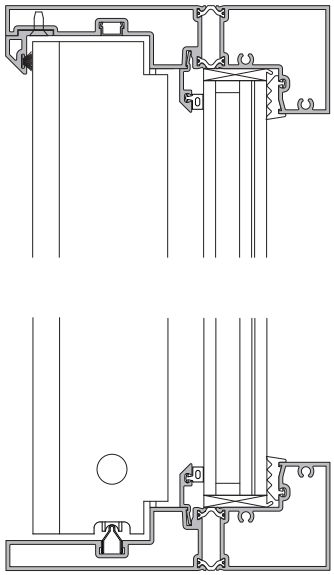


OPTIONAL "FIELD GLAZED" FIXED LITE

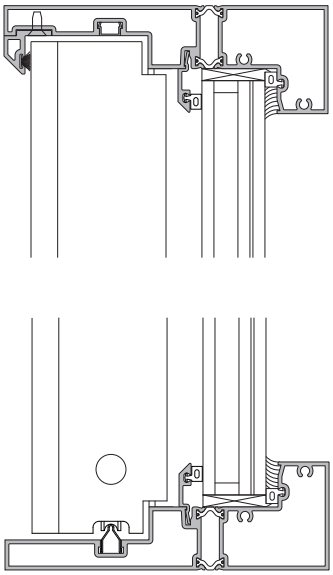
AA™3200HP
DRY GLAZED - 1" INFILL



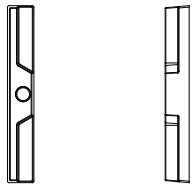
AA™3200IR
DRY GLAZED - 1-5/16" INFILL



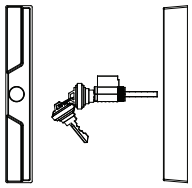
AA™3200IR
WET GLAZED - 1-5/16" INFILL



STANDARD EXTERIOR PULLS

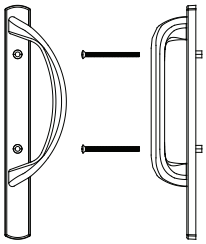


Finger Pull - Blank

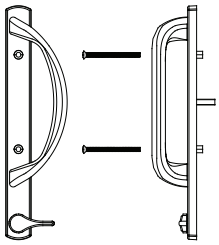


Finger Pull with Cylinder

STANDARD INTERIOR PULLS

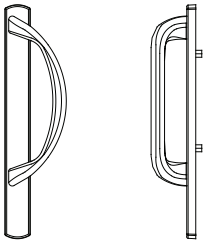


"D" Pull - Blank

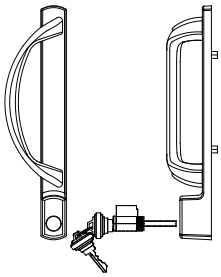


"D" Pull with Lever

OPTIONAL EXTERIOR PULLS

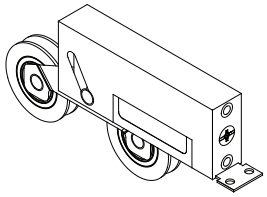


"D" Pull - Blank



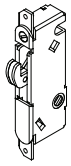
"D" Pull with Cylinder

STANDARD CASTER

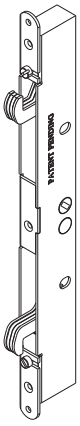


Stainless Steel Caster

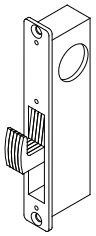
LOCKING OPTIONS



1 Point Lock



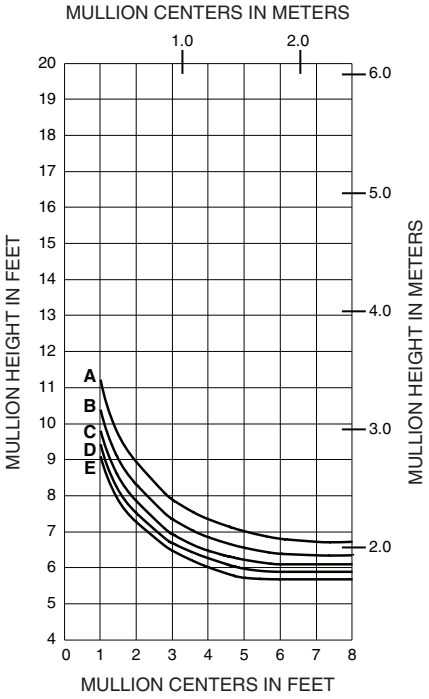
2 Point Lock



MS Hookbolt Lock

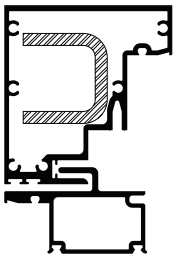
Note:
Hookbolt lock standard with OXXO units. Optional for other configurations.

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. (104 MPa). STEEL 30,000 P.S.I. (206 MPa). Charted curves, in all cases, are for the limiting value. For special situations not covered by these curves, contact your Kawneer representative for additional information.



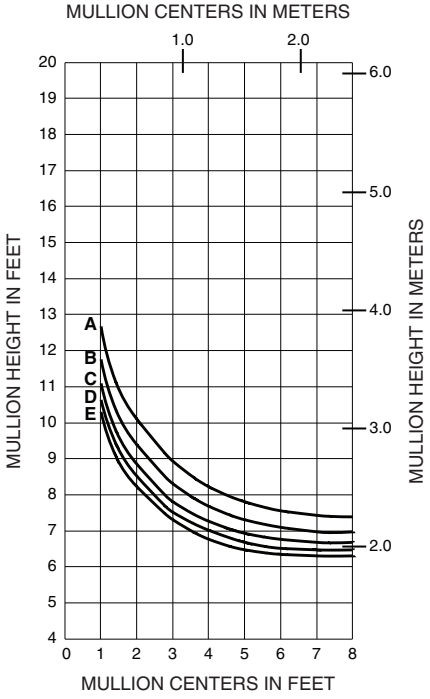
WITHOUT HORIZONTALS

A - 80 PSF
B - 100 PSF
C - 120 PSF
D - 135 PSF
E - 150 PSF

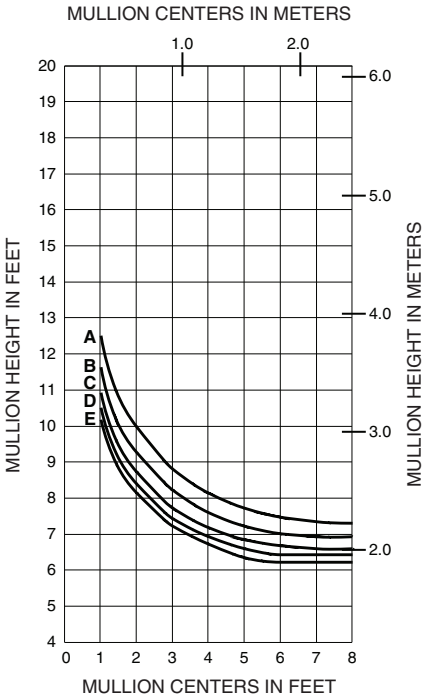


594010 STANDARD INTERLOCK MULLION
$I_A = 3.689$
$S_A = 1.822$

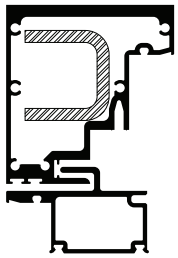
594485 STEEL
$I_S = 0.573$
$S_S = 0.611$



WITH STEEL REINFORCING WITHOUT HORIZONTALS

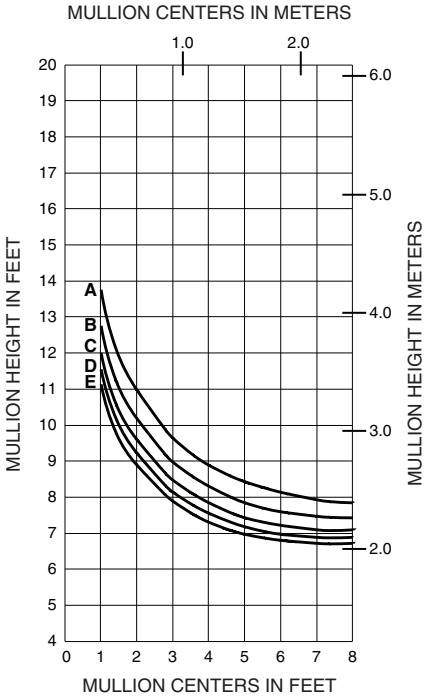


WITHOUT HORIZONTALS



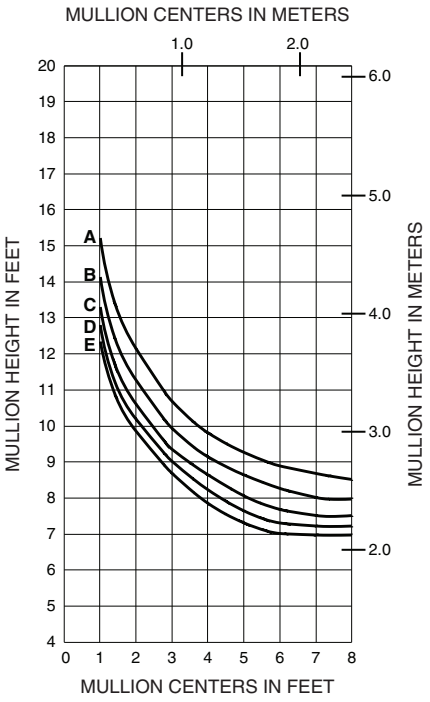
594011 HEAVY WEIGHT INTERLOCK MULLION
$I_A = 5.164$
$S_A = 2.375$

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

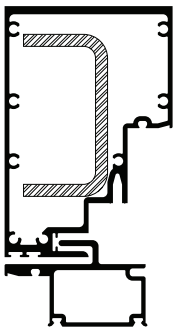


WITH STEEL REINFORCING WITHOUT HORIZONTALS

A - 80 PSF
B - 100 PSF
C - 120 PSF
D - 135 PSF
E - 150 PSF

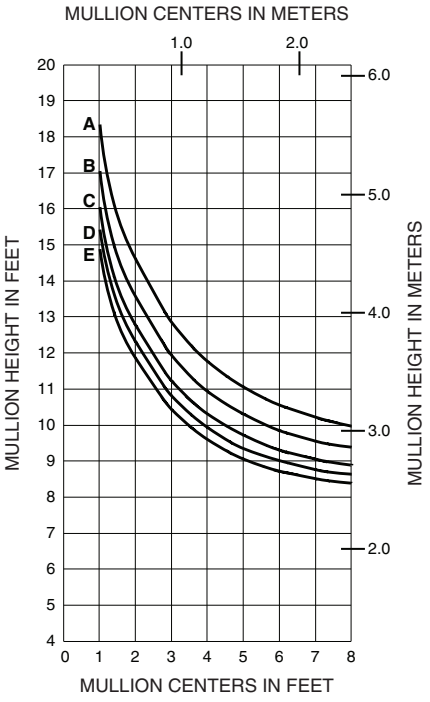


WITHOUT HORIZONTALS

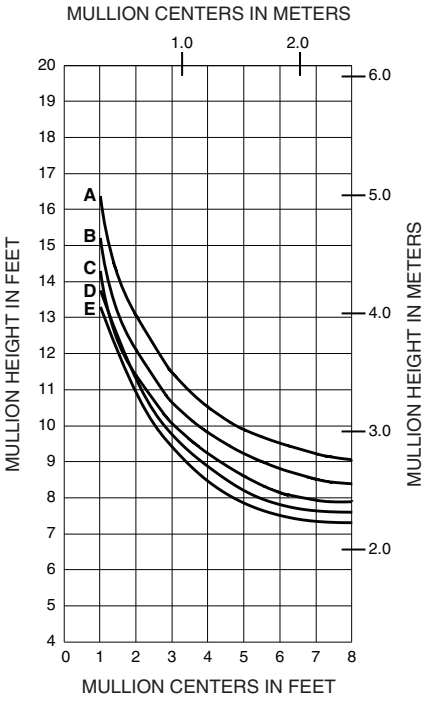


594016 DEEP INTERLOCK MULLION
$I_A = 9.275$
$S_A = 3.347$

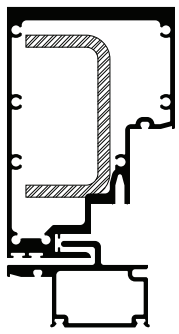
594481 STEEL
$I_S = 2.420$
$S_S = 1.434$



WITH STEEL REINFORCING
WITHOUT HORIZONTALS

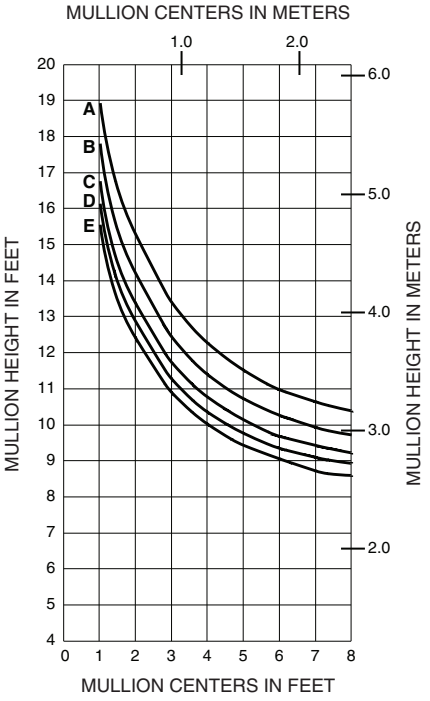


WITHOUT HORIZONTALS



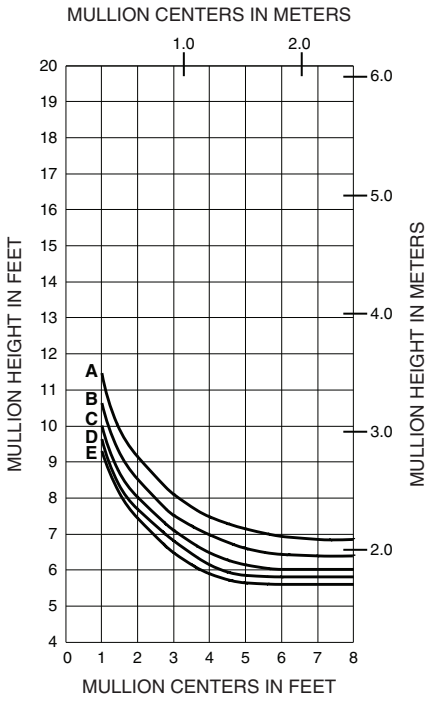
594017 DEEP HEAVY WEIGHT INTERLOCK MULLION
$I_A = 11.550$
$S_A = 3.891$

594481 STEEL
$I_S = 2.420$
$S_S = 1.434$

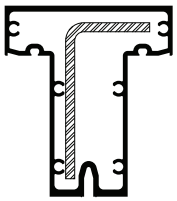


WITH STEEL REINFORCING
WITHOUT HORIZONTALS

A - 80 PSF
B - 100 PSF
C - 120 PSF
D - 135 PSF
E - 150 PSF

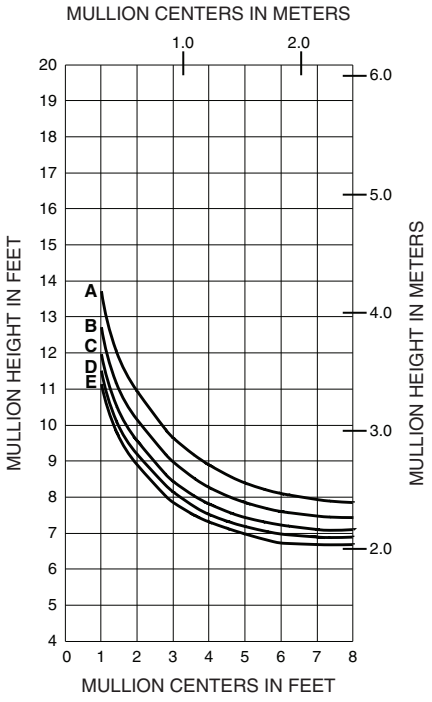


WITHOUT HORIZONTALS

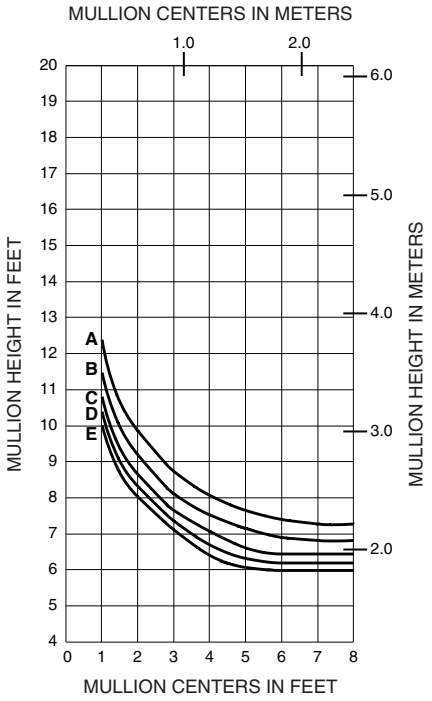


594012 STANDARD COMMON MULLION
$I_A = 3.945$
$S_A = 1.738$

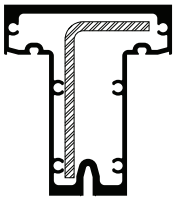
594486 STEEL
$I_S = 0.976$
$S_S = 0.486$



WITH STEEL REINFORCING WITHOUT HORIZONTALS

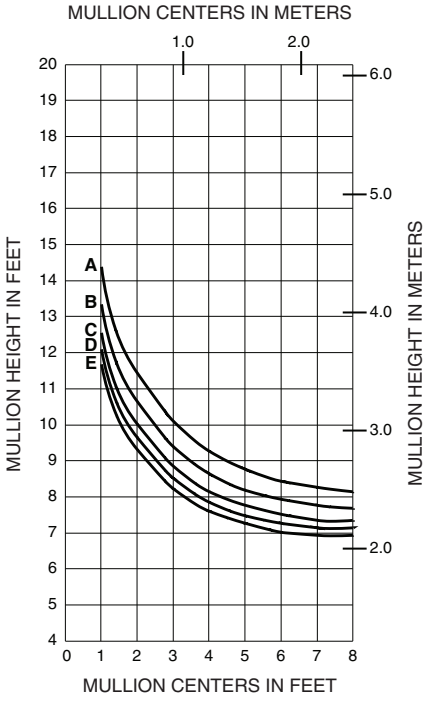


WITHOUT HORIZONTALS



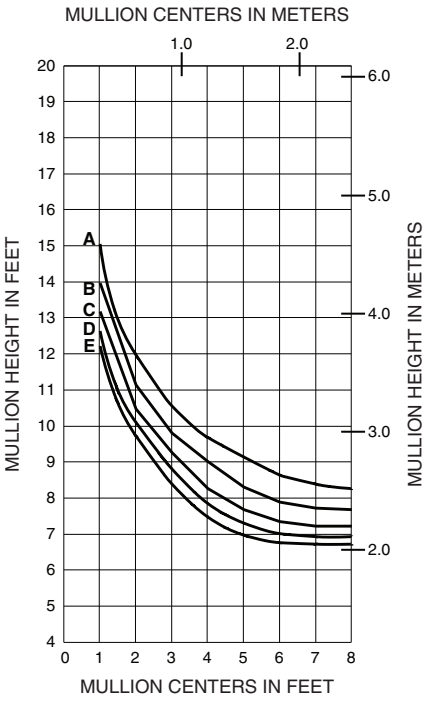
594013 HEAVY WEIGHT COMMON MULLION
$I_A = 4.964$
$S_A = 2.105$

594486 STEEL
$I_S = 0.976$
$S_S = 0.486$

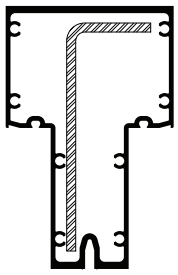


WITH STEEL REINFORCING WITHOUT HORIZONTALS

A - 80 PSF
B - 100 PSF
C - 120 PSF
D - 135 PSF
E - 150 PSF

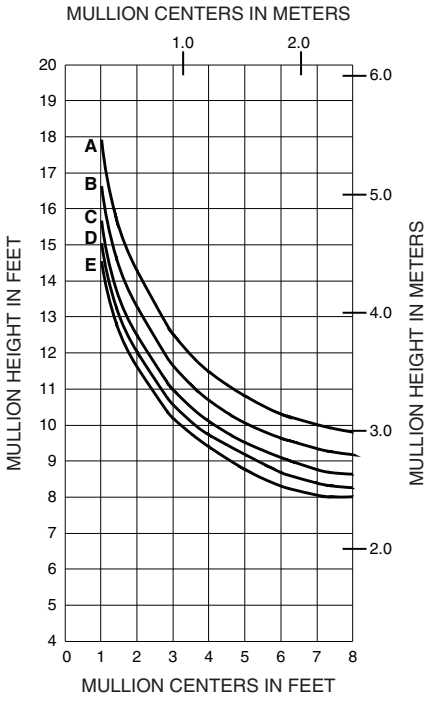


WITHOUT HORIZONTALS

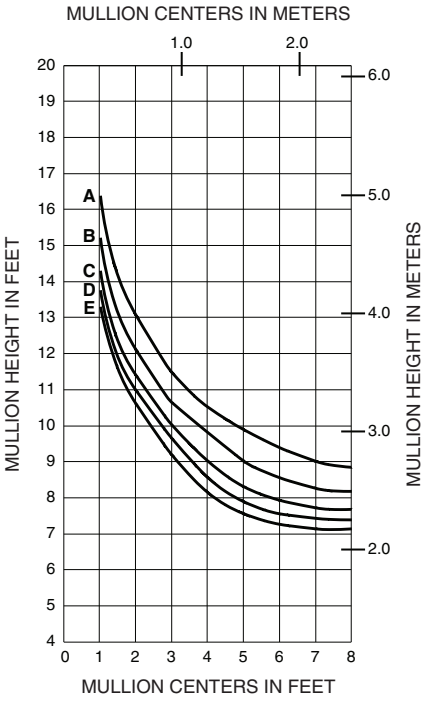


594018 DEEP COMMON MULLION
I_A = 8.969
S_A = 2.997

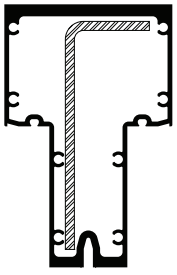
594482 STEEL
I_S = 2.138
S_S = 0.821



WITH STEEL REINFORCING WITHOUT HORIZONTALS

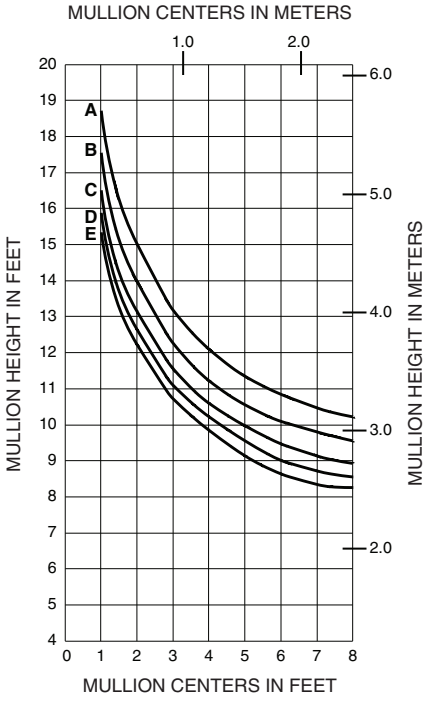


WITHOUT HORIZONTALS



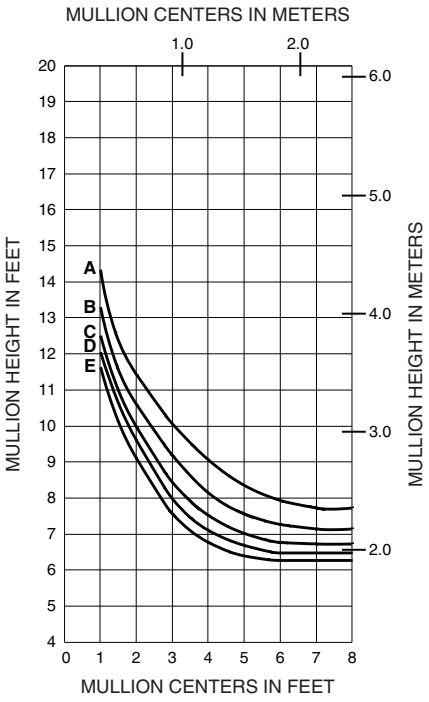
594019 DEEP HEAVY WEIGHT COMMON MULLION
I_A = 11.537
S_A = 3.625

594482 STEEL
I_S = 2.138
S_S = 0.821

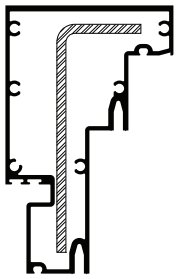


WITH STEEL REINFORCING WITHOUT HORIZONTALS

A - 80 PSF
B - 100 PSF
C - 120 PSF
D - 135 PSF
E - 150 PSF

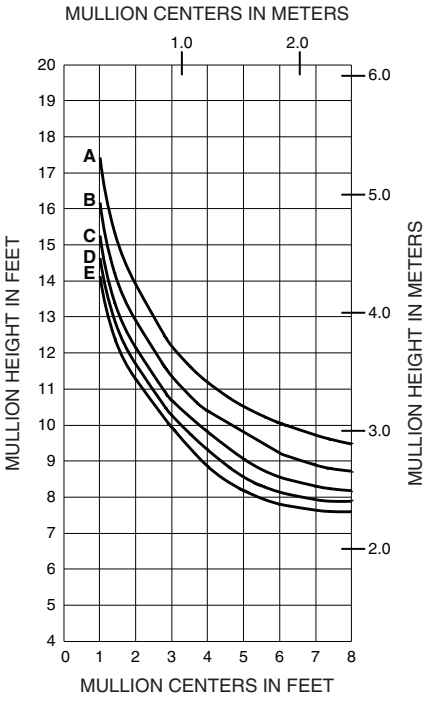


WITHOUT HORIZONTALS

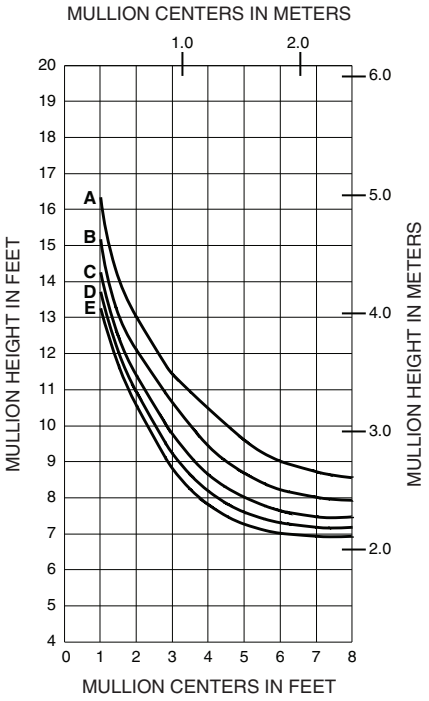


594014 STANDARD LOCK MULLION
$I_A = 7.743$
$S_A = 2.422$

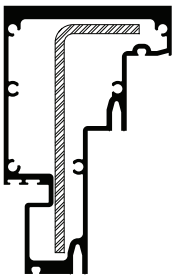
594482 STEEL
$I_S = 2.138$
$S_S = 0.821$



WITH STEEL REINFORCING WITHOUT HORIZONTALS

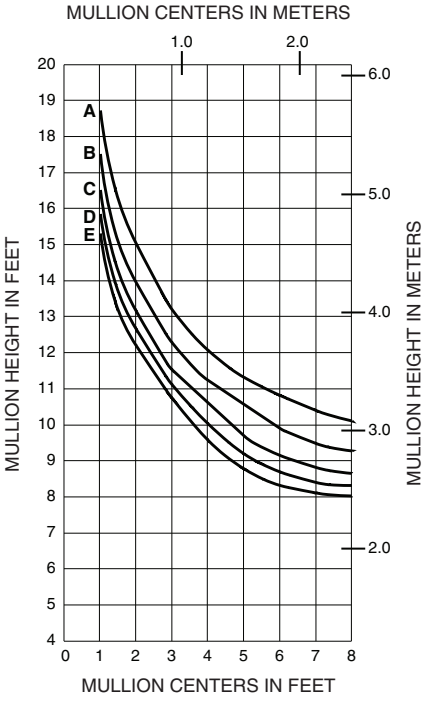


WITHOUT HORIZONTALS

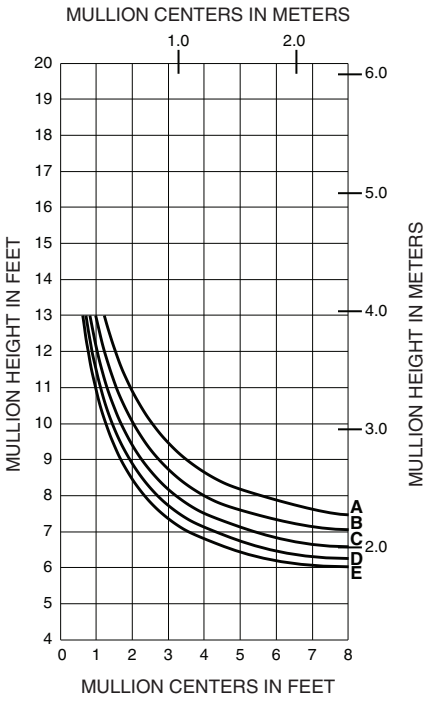


594015 HEAVY WEIGHT LOCK MULLION
$I_A = 11.469$
$S_A = 3.310$

594482 STEEL
$I_S = 2.138$
$S_S = 0.821$

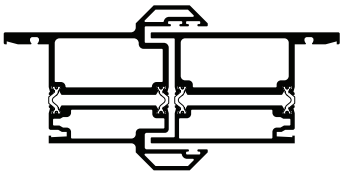


WITH STEEL REINFORCING WITHOUT HORIZONTALS



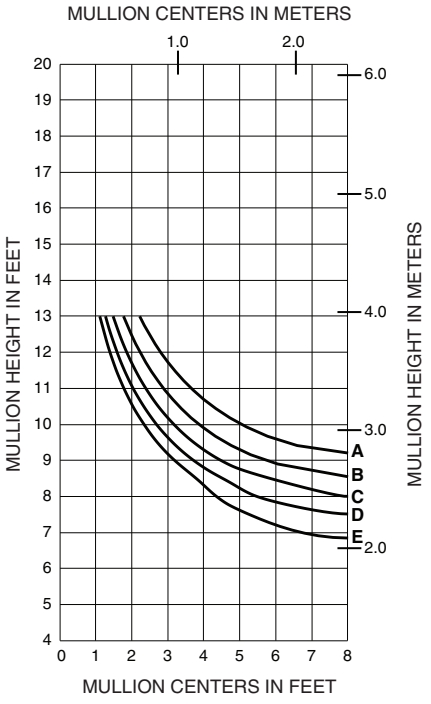
WITHOUT HORIZONTALS

A - 80 PSF
B - 100 PSF
C - 120 PSF
D - 135 PSF
E - 150 PSF

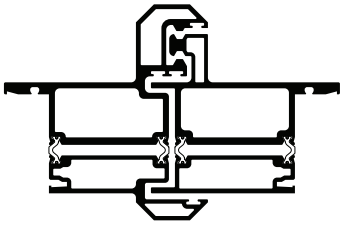


594128/594129 LIGHT WEIGHT MEETING STILES

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



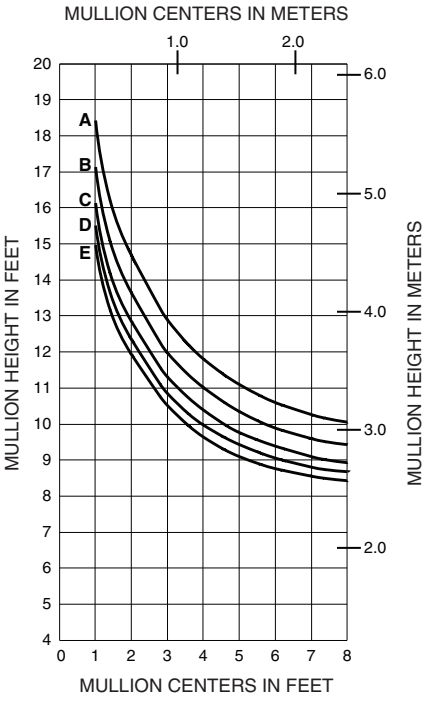
WITHOUT HORIZONTALS



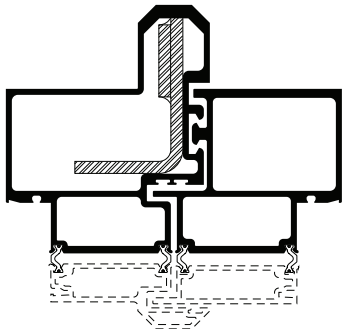
594124/594125 MID WEIGHT MEETING STILES

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

A - 80 PSF
B - 100 PSF
C - 120 PSF
D - 135 PSF
E - 150 PSF



WITH STEEL REINFORCING
WITHOUT HORIZONTALS

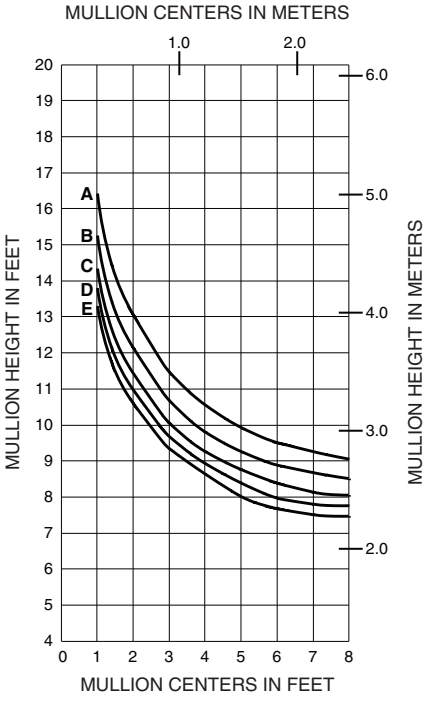


594126/594127 DEEP HEAVY WEIGHT MEETING STILES

I_A = 11.626
S_A = 4.169

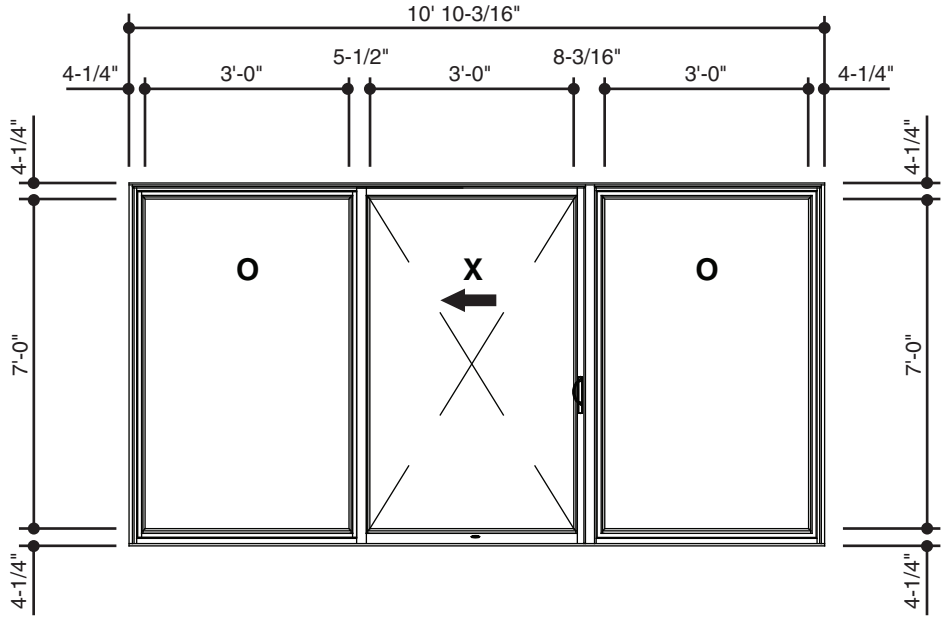
STEEL REINFORCING

I_S = 1.707
S_S = 0.939



WITH STEEL REINFORCING
WITH HORIZONTALS

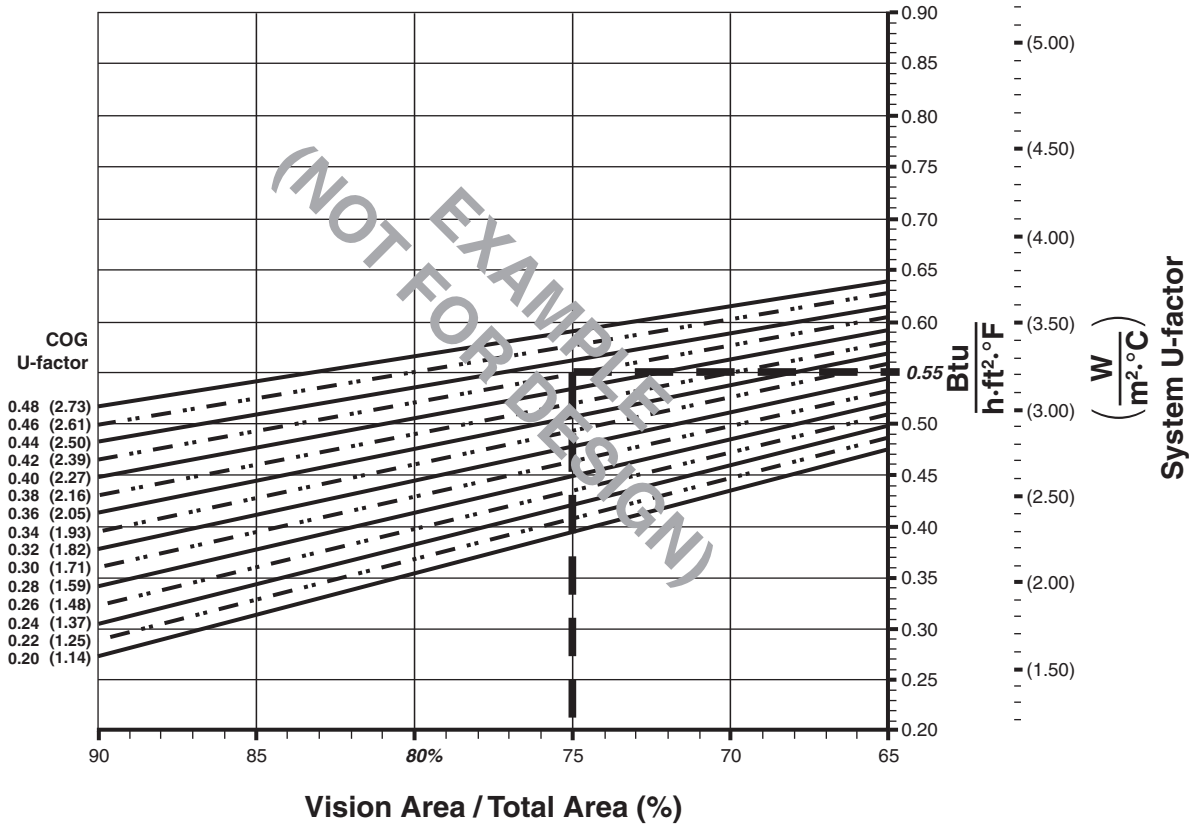
Project Specific U-Factor
Example Calculation
(Based on OXO Sliding Door Unit)



Vision Area

Example Glass U-Factor	= 0.42 Btu/(ft²·h·°F)
Total Daylight (Vision) Area	= 3(3' x 7') = 63 ft²
Projected Total Area	= 7.71' x 10.85' = 83.65 ft²
Percent of Vision Glass	= (Total Daylight Area ÷ Projected Total Area)100 = (63 ÷ 83.65)100 = 75%

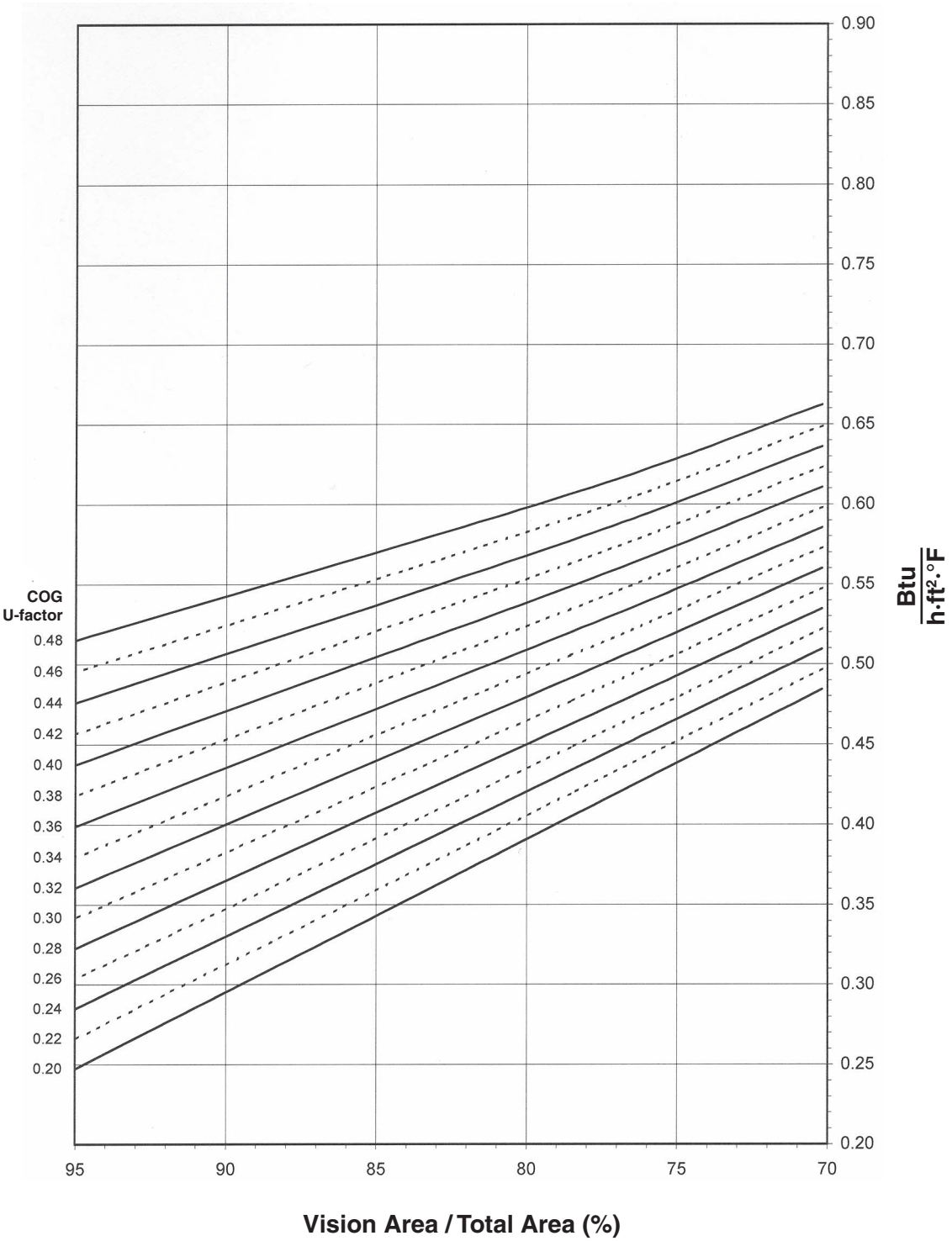
System U-Factor vs Percent of Vision Area



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)

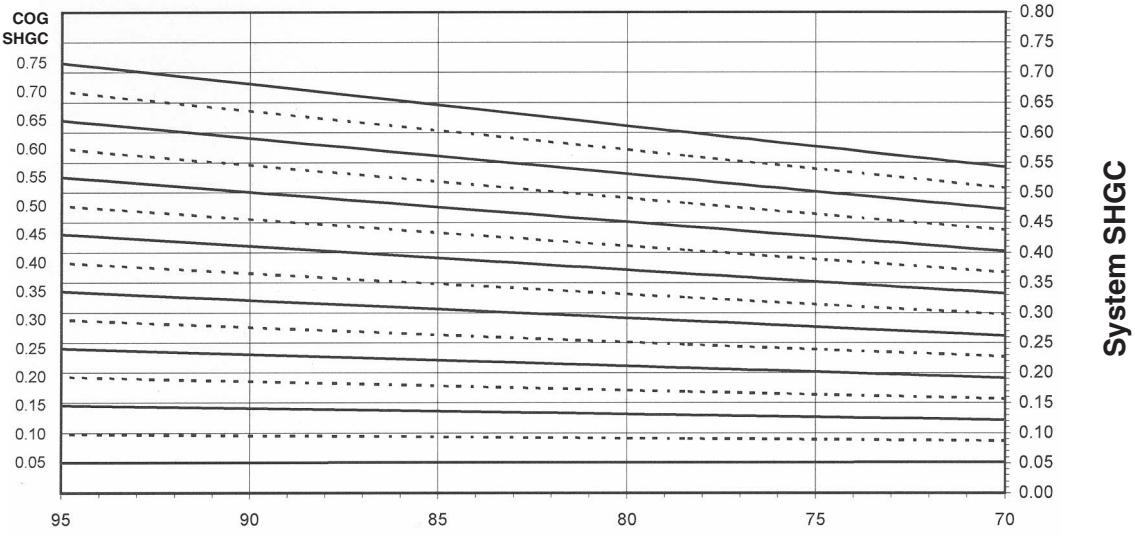
OX UNIT "FIELD GLAZED"

System U-Factor vs Percent of Vision Area

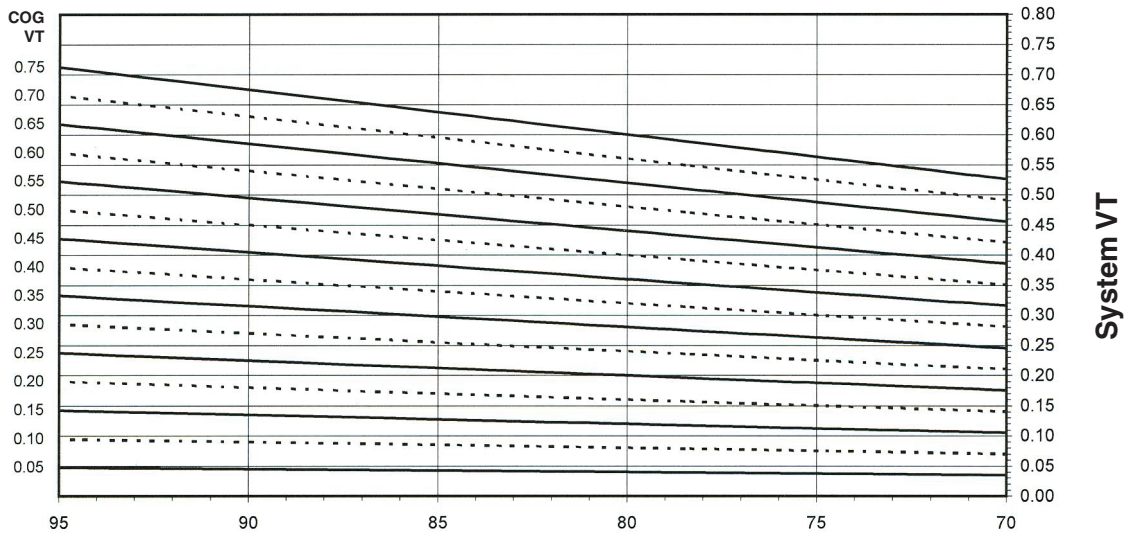


OX UNIT "FIELD GLAZED"

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



System Visible Transmittance (VT) vs Percent of Vision Area



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

Glass U-Factor [3]	Overall U-Factor [4]
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

OX UNIT "FIELD GLAZED"

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").

SHGC Matrix [2]

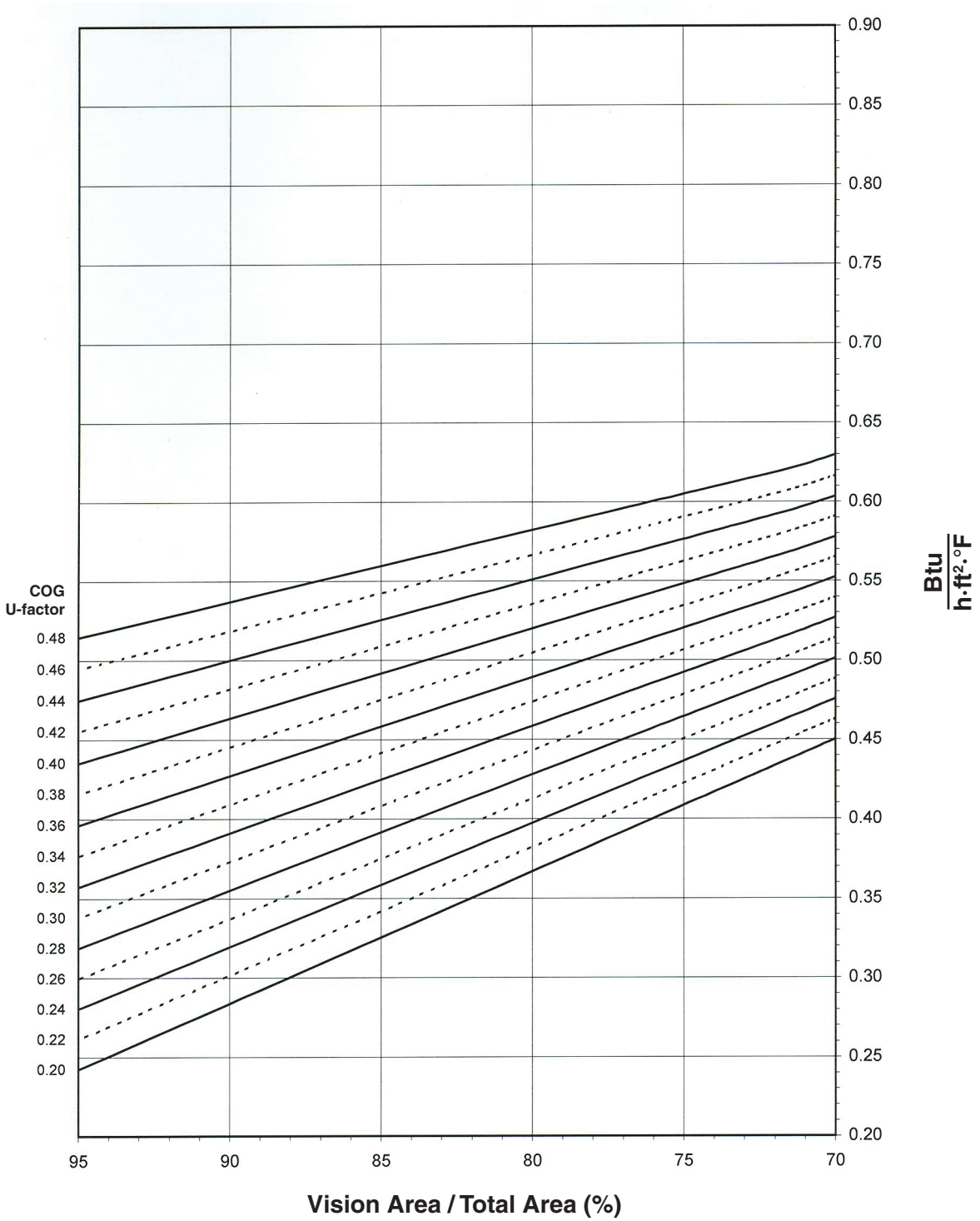
Glass SHGC [3]	Overall SHGC [4]
0.75	0.60
0.70	0.56
0.65	0.56
0.60	0.48
0.55	0.44
0.50	0.40
0.45	0.37
0.40	0.33
0.35	0.29
0.30	0.25
0.25	0.21
0.20	0.17
0.15	0.13
0.10	0.09
0.05	0.05

Visible Transmittance [2]

Glass VT [3]	Overall VT [4]
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

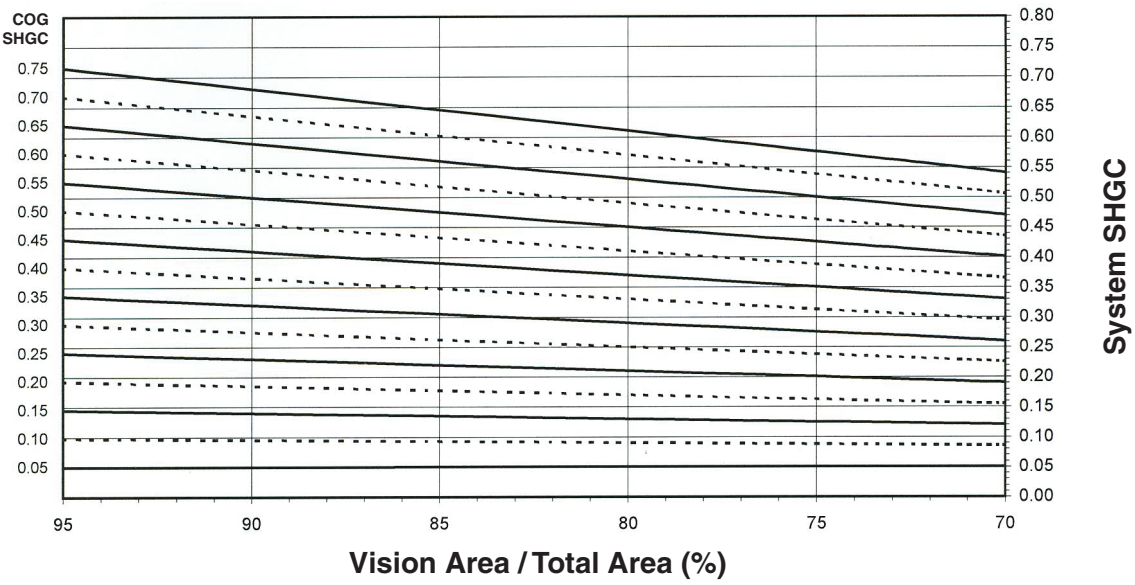
OX UNIT "SUB SASH"

System U-Factor vs Percent of Vision Area

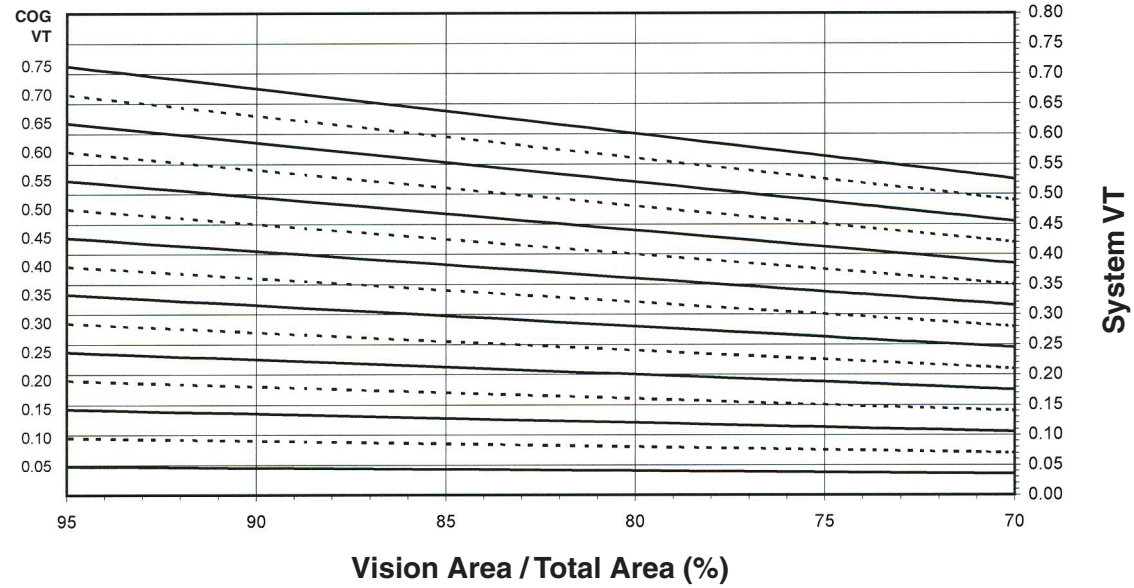


OX UNIT "SUB SASH"

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



System Visible Transmittance (VT) vs Percent of Vision Area



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

Glass U-Factor [3]	Overall U-Factor [4]
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 2000mm wide by 2000mm high (78-3/4" by 78-3/4").

SHGC Matrix [2]

Glass SHGC [3]	Overall SHGC [4]
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 [2]

Glass VT [3]	Overall VT [4]
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