Features

- Trifab® 601/601T/601UT is 6" deep with a 2" sightline
- Center Plane glass applications
- Flush glazed from either the inside or outside
- Screw Spline fabrication
- Dual Isolock® lanced and debridged thermal break
- Infill options up to 1-1/8" thickness
- Permanodic® anodized finishes in 7 choices
- Painted finishes in standard and custom choices

Optional Features

- High performance sill flashing
- Acoustical rating per AAMA 1801 and ASTM E 1425
- Project specific U-factors (See Thermal Charts)

Product Applications

- Storefront, Ribbon Window or Punched Openings
- Single-span
- Integrated entrance framing allowing Kawneer standard entrances or other specialty entrances to be incorporated
- Kawneer windows or GLASSvent® are easily incorporated

For specific product applications,
Consult your Kawneer representative.

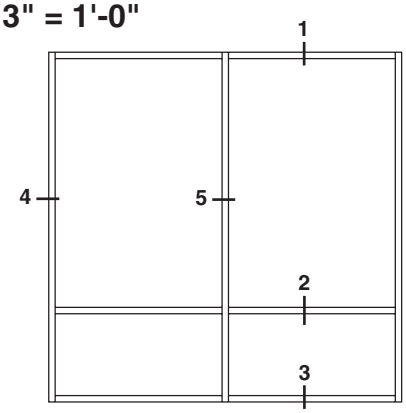
TRIFAB® 601/601T/601UT

MAY, 2012

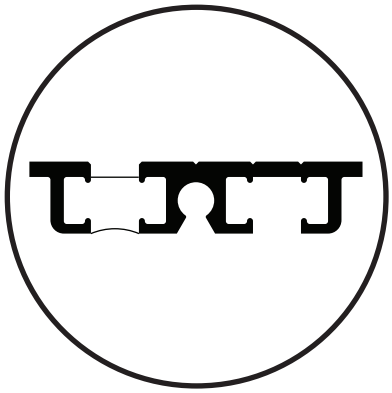
BASIC FRAMING DETAILS (CENTER - Outside Glazed)

EC 97911-42

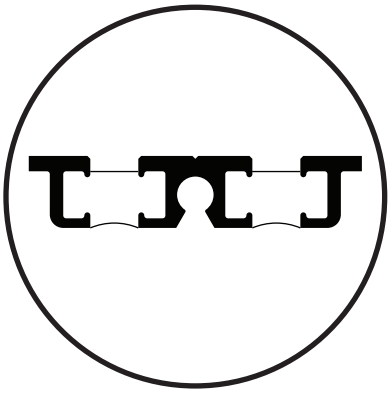
SCALE 3" = 1'-0"



ELEVATION IS NUMBER KEYED TO DETAILS

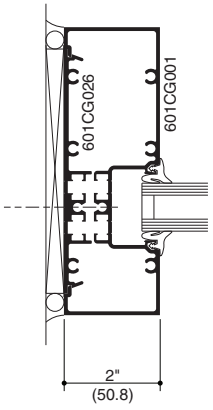


TRIFAB® 601T ISOLOCK® THERMAL BREAK

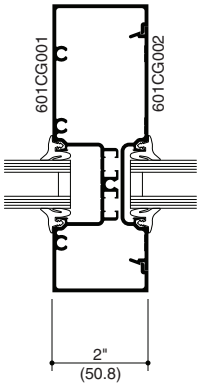


TRIFAB® 601UT DUAL ISOLOCK® THERMAL BREAK

SCREW SPLINE

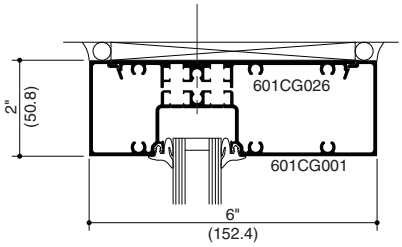


4 JAMB

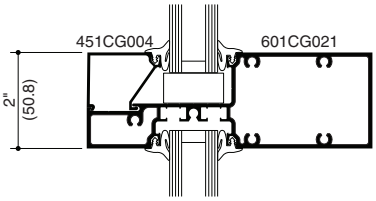


5 VERTICAL

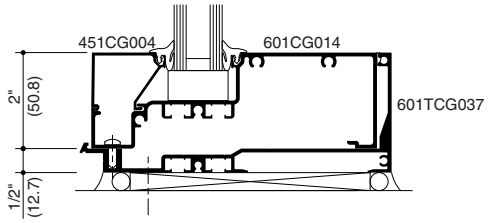
1 HEAD



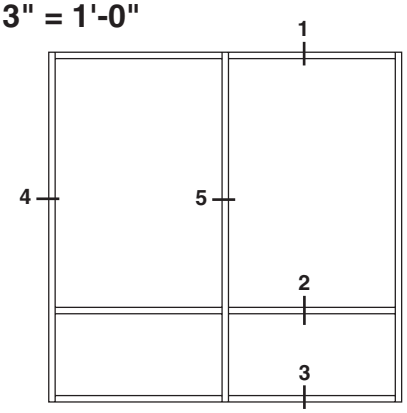
2 HORIZONTAL



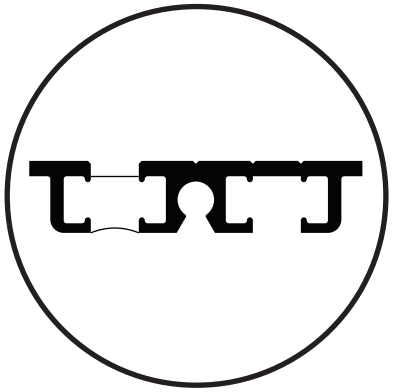
3 SILL



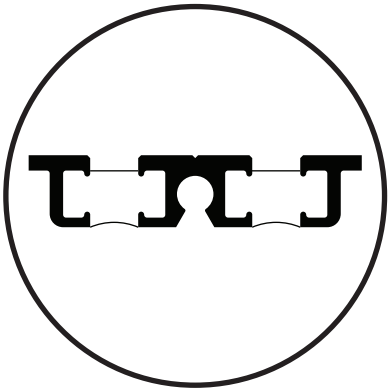
SCALE 3" = 1'-0"



ELEVATION IS NUMBER KEYED TO DETAILS

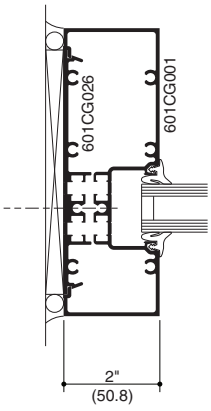


TRIFAB® 601T ISOLOCK® THERMAL BREAK

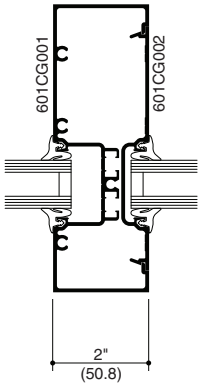


TRIFAB® 601UT DUAL ISOLOCK® THERMAL BREAK

SCREW SPLINE

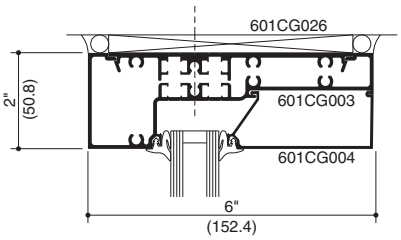


4 JAMB

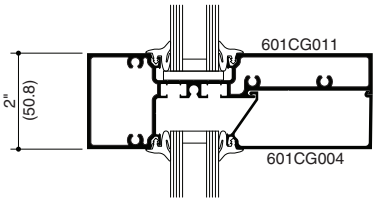


5 VERTICAL

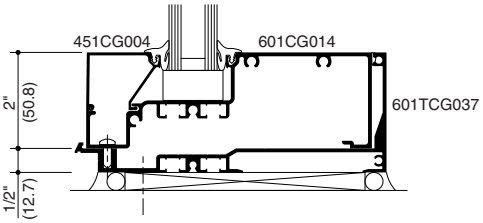
1 HEAD



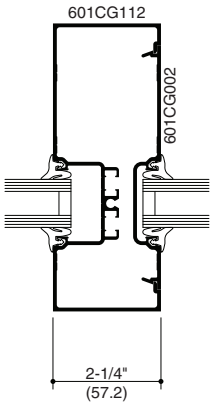
2 HORIZONTAL



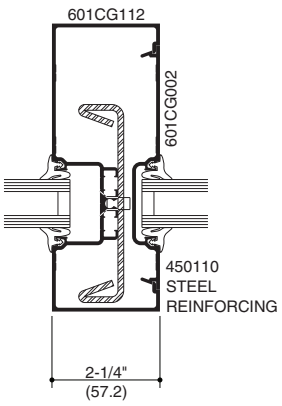
3 SILL



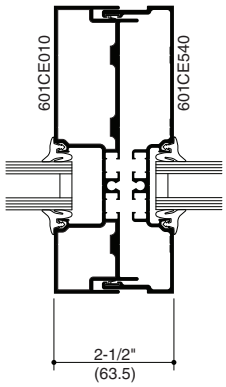
SCALE 3" = 1'-0"



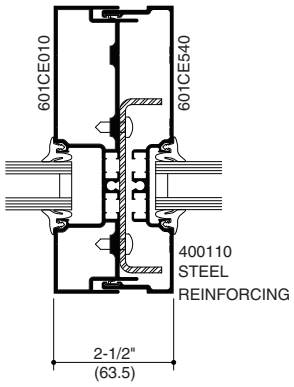
2-1/4" MULLION



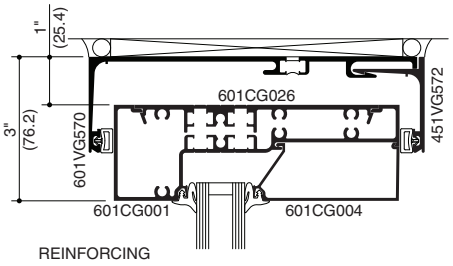
2-1/4" MULLION WITH STEEL



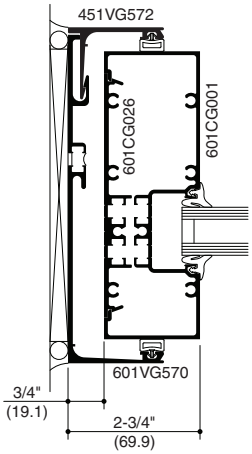
TUBULAR EXPANSION MULLION



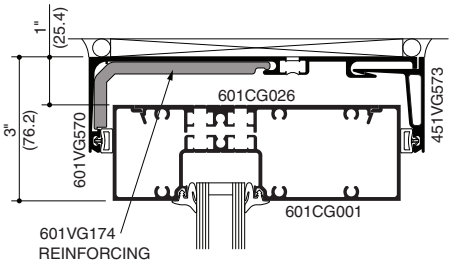
TUBULAR EXPANSION MULLION WITH OPTIONAL STEEL



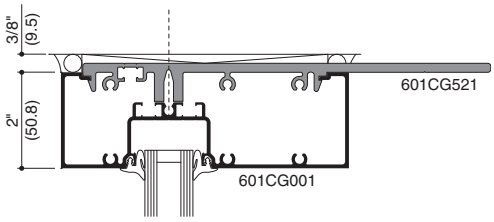
STANDARD HEAD RECEPTOR



JAMB RECEPTOR



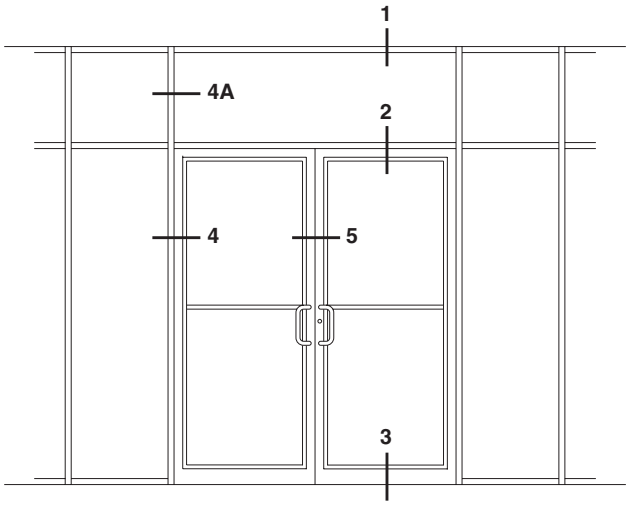
HEAVY WEIGHT HEAD RECEPTOR



STRAP ANCHOR

SCALE 3" = 1'-0"

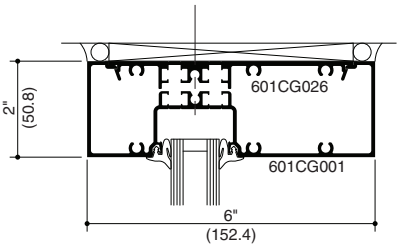
TRIFAB® 601 CENTER FRAMING SHOWN.
OTHER FRAMING OPTIONS AVAILABLE.
CONSULT YOUR KAWNEER REPRESENTATIVE.



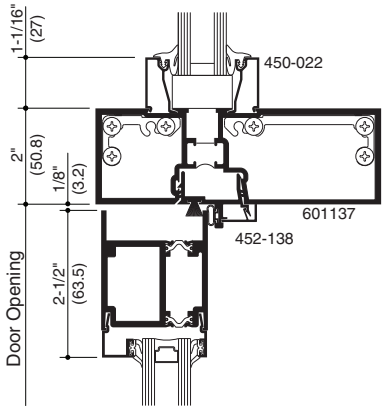
ELEVATION IS NUMBER KEYED TO DETAILS.

NOTE: Butt Hung or Offset Pivot Doors Only.

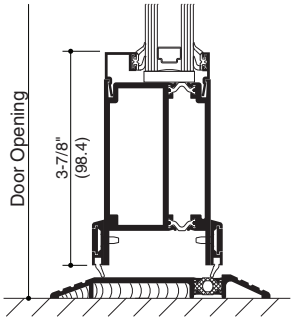
1 HEAD

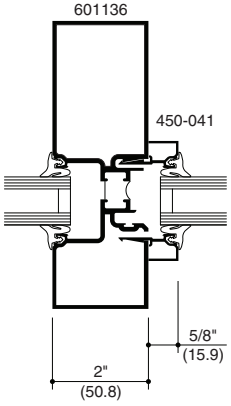


2 TRANSOM BAR

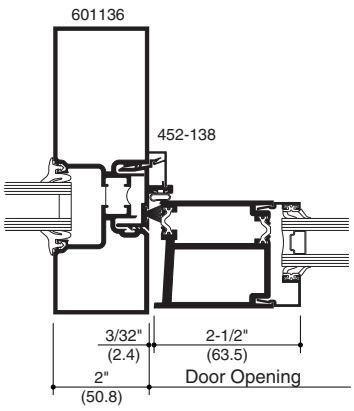


3 BOTTOM RAIL

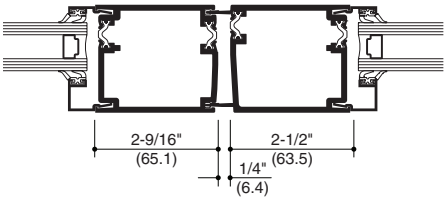




4A TRANSOM JAMB



4 DOOR JAMB



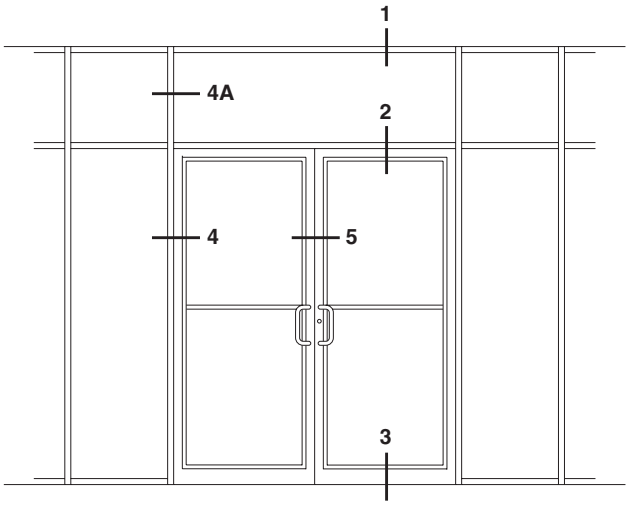
5 MEETING STILES

AA® 250/425 THERMAL DOOR

KAWNEER
AN ALCOA COMPANY

SCALE 3" = 1'-0"

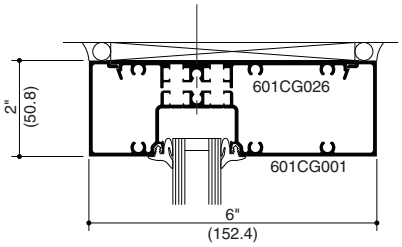
TRIFAB® 601 CENTER FRAMING SHOWN.
OTHER FRAMING OPTIONS AVAILABLE.
CONSULT YOUR KAWNEER REPRESENTATIVE.



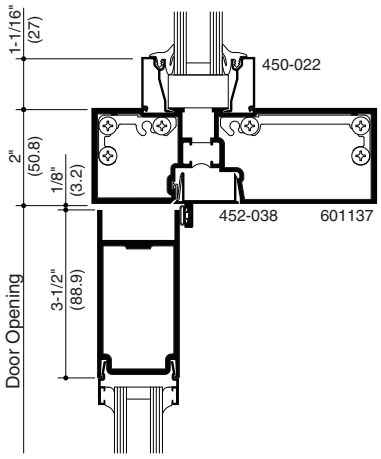
ELEVATION IS NUMBER KEYED TO DETAILS.

NOTE: Butt Hung or Offset Pivot Doors Only.

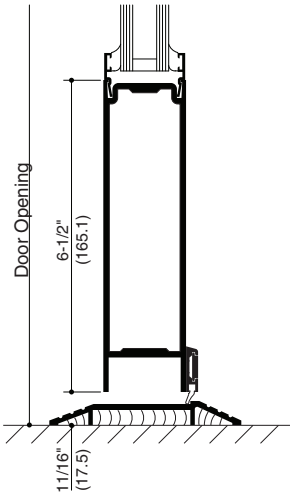
1 HEAD

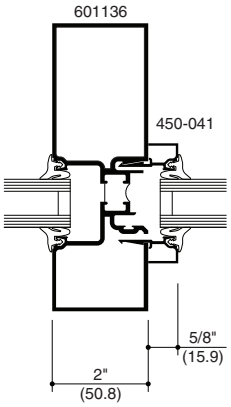


2 TRANSOM BAR

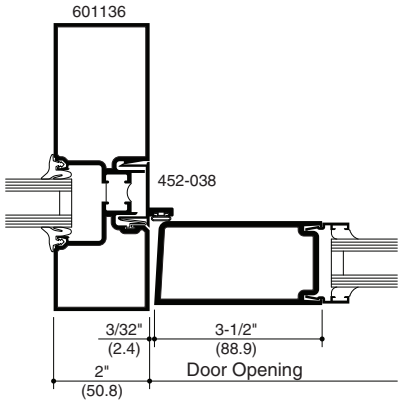


3 BOTTOM RAIL

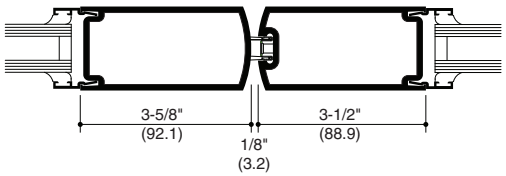




4A DOOR JAMB



4 DOOR JAMB



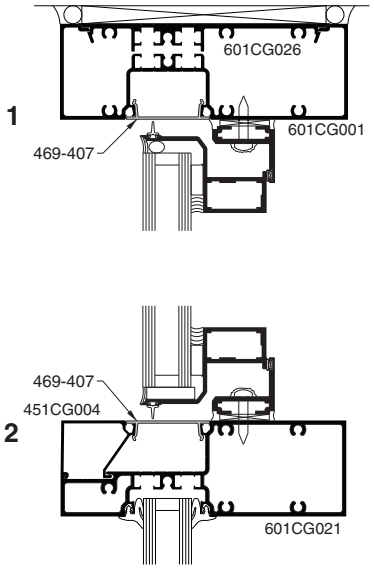
5 MEETING STILES

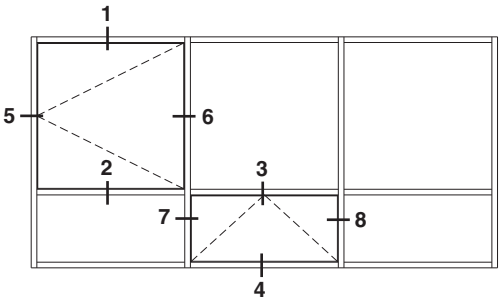
350 MEDIUM STILE DOOR

SCALE 3" = 1'-0"

TRIFAB® 601 FRAMING SHOWN.
OTHER FRAMING OPTIONS AVAILABLE.
CONSULT YOUR KAWNEER REPRESENTATIVE.

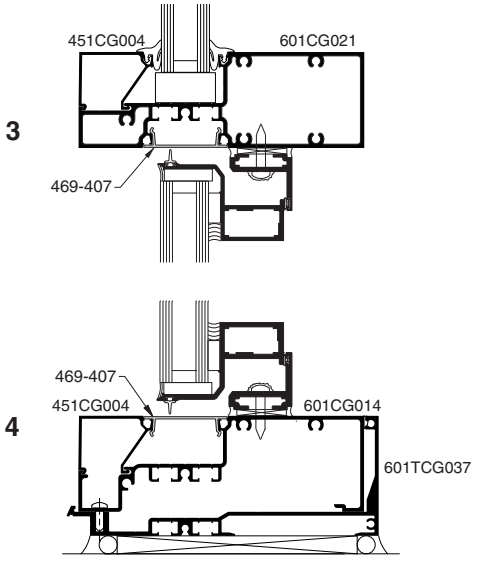
OUTSWING CASEMENT VERTICAL SECTION



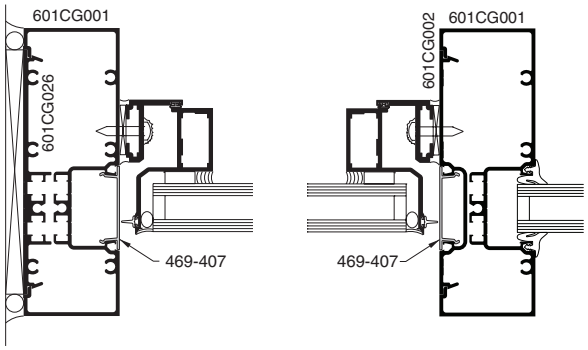


ELEVATION IS NUMBER KEYED TO DETAILS

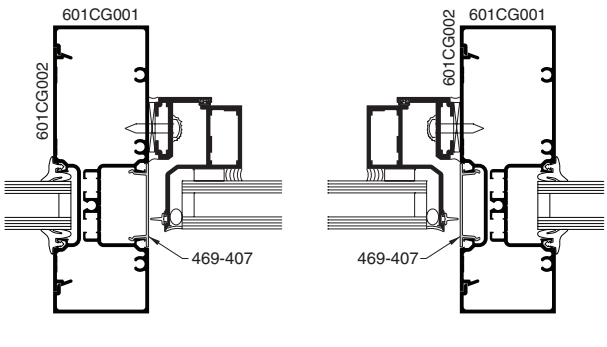
PROJECT-OUT VERTICAL SECTION



OUTSWING CASEMENT HORIZONTAL SECTION



PROJECT-OUT HORIZONTAL SECTION



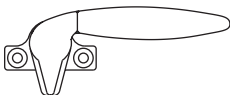
NOTE: Bronze spacer is recommended when 1" insulating glass is used.

MAXIMUM / MINIMUM SIZES (1" INFILL)

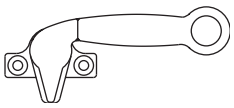
PROJECT-OUT	MAXIMUM 60" x 36" MINIMUM 14" x 14"
OUTSWING CASEMENT	MAXIMUM 36" x 60" MINIMUM 14" x 14"

STOREFRONT GLASSvent® HARDWARE SELECTION GUIDE

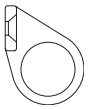
DESCRIPTION	PROJECT - OUT	OUTSWING CASEMENT
Stainless steel 4-bar hinge	STANDARD	STANDARD
Cast white bronze cam lock	STANDARD	STANDARD
Cast white bronze cam lock with pole ring	OPTIONAL	OPTIONAL
Cast white bronze custodial lock with removable handle	OPTIONAL	OPTIONAL
Cast white bronze concealed lock with removable hex key	OPTIONAL	OPTIONAL
Cast white bronze pole/pull ring	OPTIONAL	
Pivot-shoe roto-operator	OPTIONAL	
Multi-point lock with cast white bronze locking handle		OPTIONAL
Insect screen	OPTIONAL	OPTIONAL



CAM LOCK



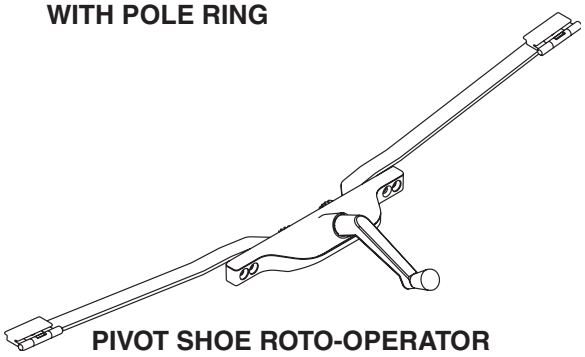
CAM LOCK WITH POLE RING



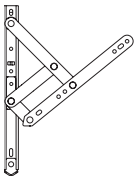
PULL RING

CUSTODIAL LOCK

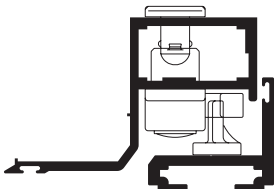
REMOVABLE HANDLE



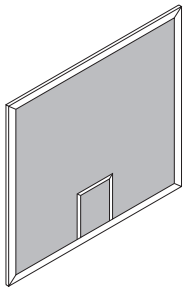
PIVOT SHOE ROTO-OPERATOR



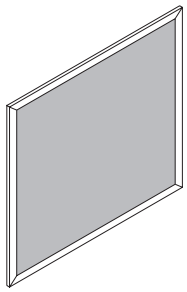
STAINLESS STEEL 4 BAR HINGES



CONCEALED LOCK



INSECT SCREEN WITH STANDARD WICKET

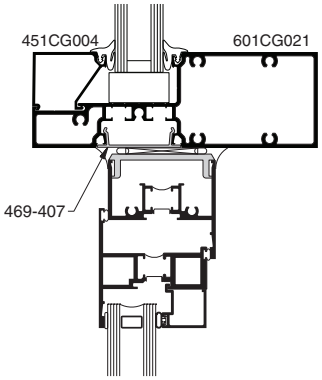


INSECT SCREEN WITH FULL WICKET

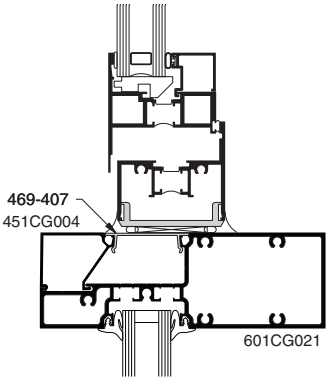
SCALE 3" = 1'-0"

PROJECT-OUT VERTICAL SECTION

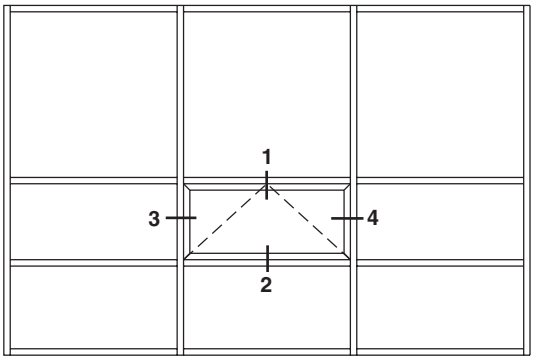
1



2

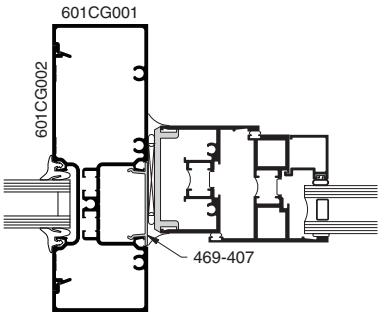


8225T•L VENTS SHOWN
NOTE: OTHER VENT TYPES CAN BE ACCOMMODATED, CONSULT YOUR KAWNEER REPRESENTATIVE FOR OTHER OPTIONS

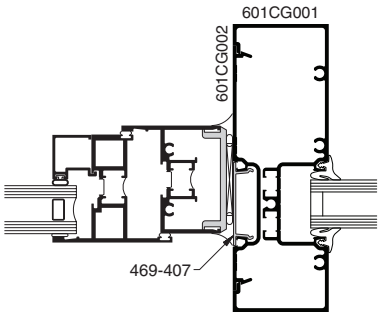


ELEVATION IS NUMBER KEYED TO DETAILS

PROJECT-OUT HORIZONTAL SECTION



3



4

WIND LOAD CHARTS

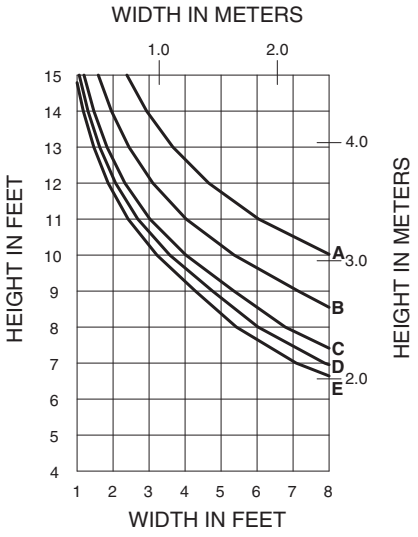
Mullions are designed for deflection limitations in accordance with AAMA TIR-A11 of L/175 up to 13'-6" and L/240 +1/4" above 13'-6". These curves are for mullions WITH and WITHOUT HORIZONTALS and are based on engineering calculations for stress and deflection. Allowable wind load stress for ALUMINUM 15,152 p.s.i. (104MPa), STEEL 30,000 p.s.i. (207MPa.). 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.

DEADLOAD CHARTS

Horizontal or deadload limitations are based upon 1/8" (3.2), maximum allowable deflection at the center of an intermediate horizontal member. The accompanying charts are calculated for 1" (25.4) thick insulating glass or 1/4" (6.35) thick glass supported on two setting blocks placed at the loading points shown.

A = 20 PSF (960 Pa)
B = 30 PSF (1440 Pa)
C = 40 PSF (1920 Pa)
D = 45 PSF (2160 Pa)
E = 50 PSF (2400 Pa)

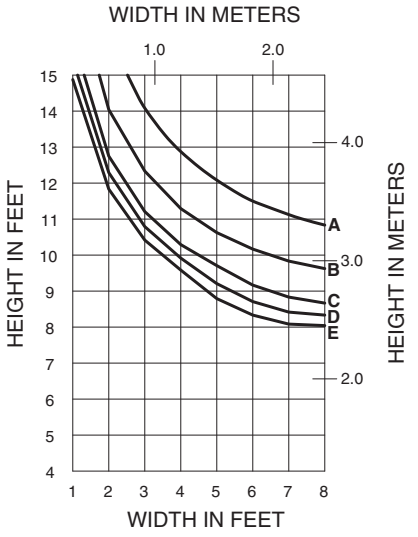
WITH HORIZONTALS



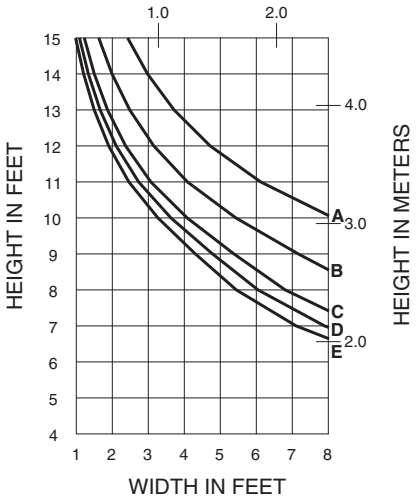
601CG001

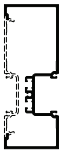
I = 5.431 (226.05 x 10^4)
S = 1.717 (28.14 x 10^3)

WITHOUT HORIZONTALS



WITH HORIZONTALS

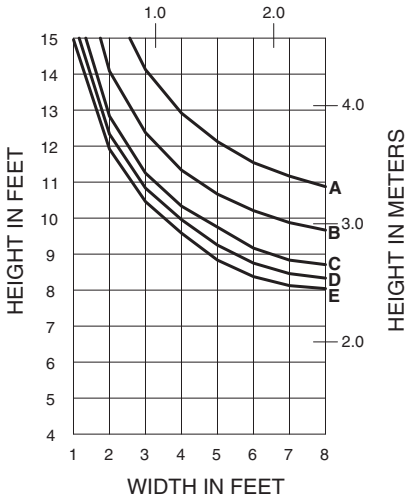




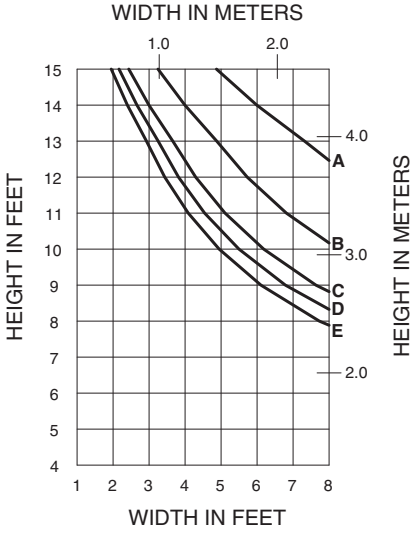
601CG112

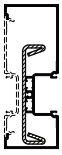
I = 5.495 (228.72 x 10^4)
S = 1.727 (28.30 x 10^3)

WITHOUT HORIZONTALS



WITH HORIZONTALS



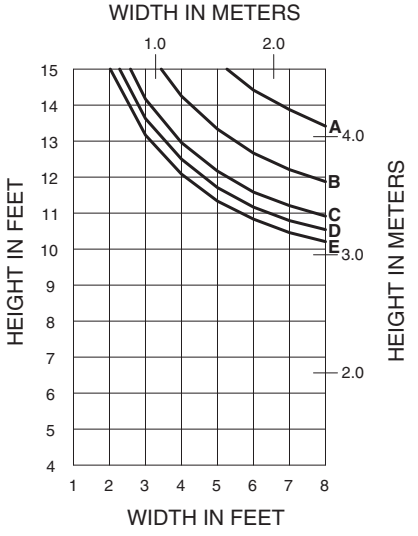


601CG112
WITH 450-110 STEEL

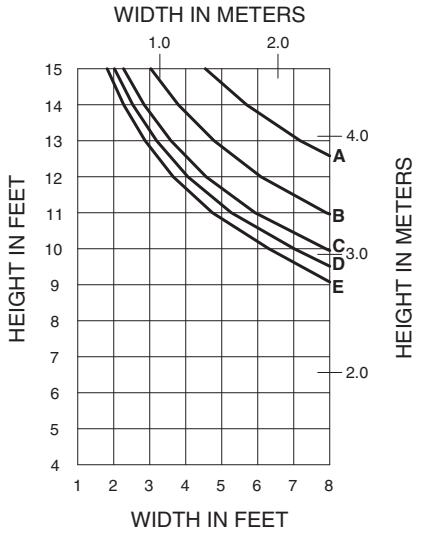
I_A = 5.495 (228.72 x 10^4)
S_A = 1.727 (28.30 x 10^3)

I_S = 1.929 (80.29 x 10^4)
S_S = 0.935 (15.32 x 10^3)

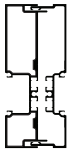
WITHOUT HORIZONTALS



WITH HORIZONTALS



A = 20 PSF (960 Pa)
B = 30 PSF (1440 Pa)
C = 40 PSF (1920 Pa)
D = 45 PSF (2160 Pa)
E = 50 PSF (2400 Pa)

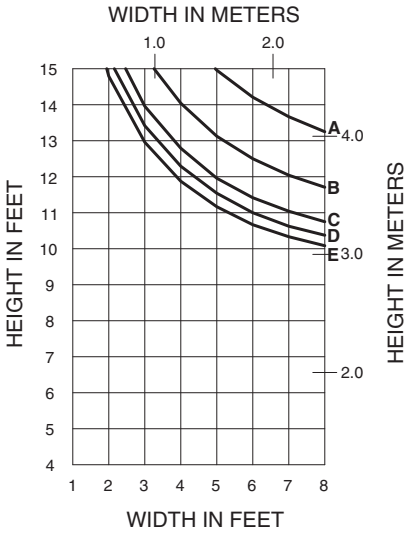


601CG010

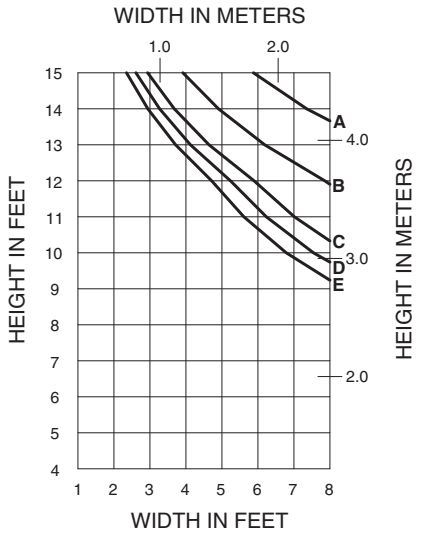
$I = 10.570 (439.95 \times 10^4)$

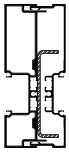
$S = 3.406 (55.81 \times 10^3)$

WITHOUT HORIZONTALS



WITH HORIZONTALS





601CG010
WITH 400-110 STEEL

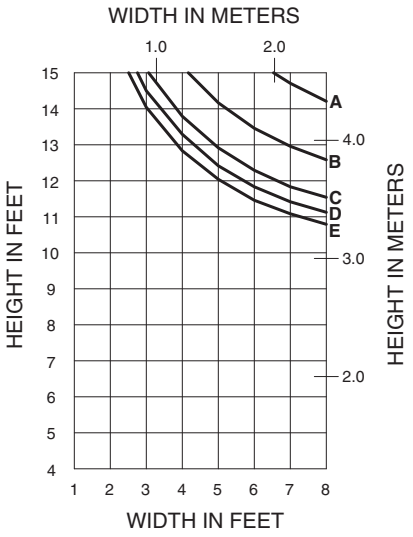
$I_A = 10.570 (439.95 \times 10^4)$

$S_A = 3.406 (55.81 \times 10^3)$

$I_S = 0.970 (40.37 \times 10^4)$

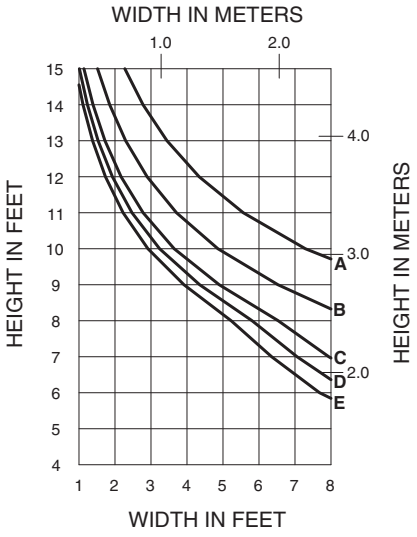
$S_S = 0.535 (8.77 \times 10^3)$

WITHOUT HORIZONTALS



A = 20 PSF (960 Pa)
B = 30 PSF (1440 Pa)
C = 40 PSF (1920 Pa)
D = 45 PSF (2160 Pa)
E = 50 PSF (2400 Pa)

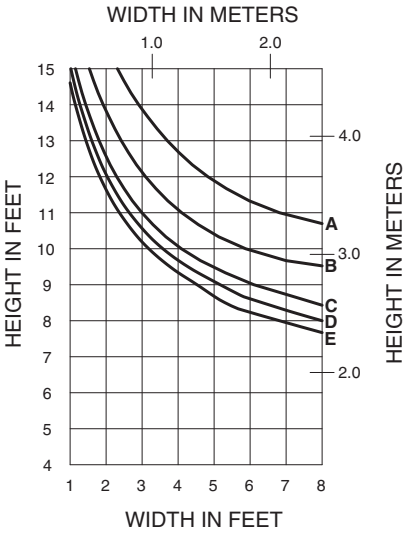
WITH HORIZONTALS



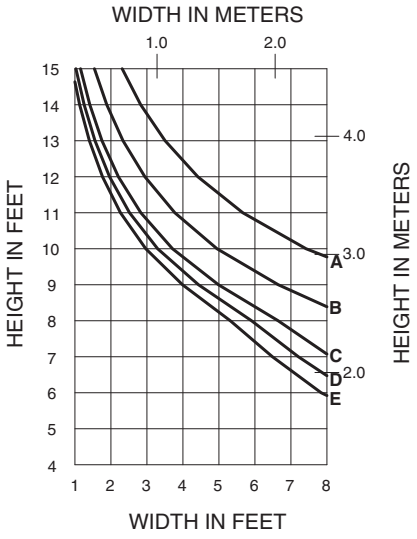
601TCG001

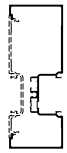
WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

WITHOUT HORIZONTALS



WITH HORIZONTALS

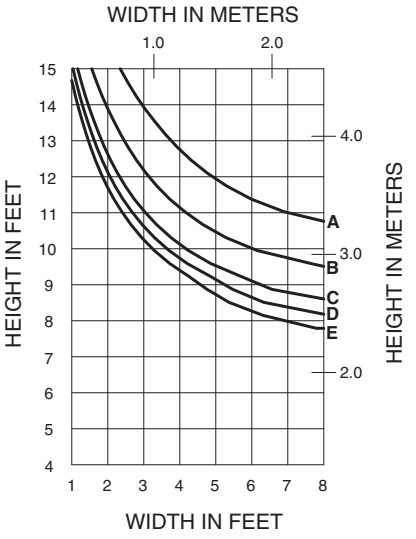




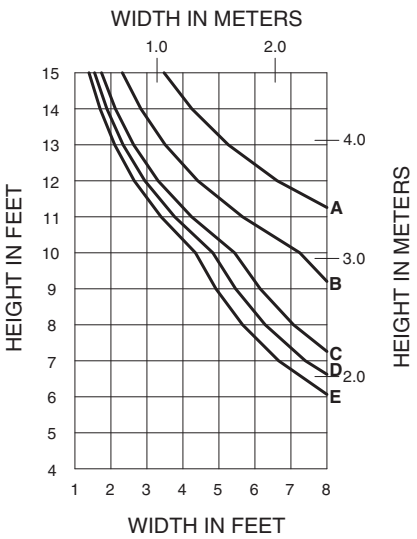
601TCG112

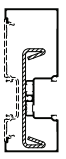
WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

WITHOUT HORIZONTALS



WITH HORIZONTALS

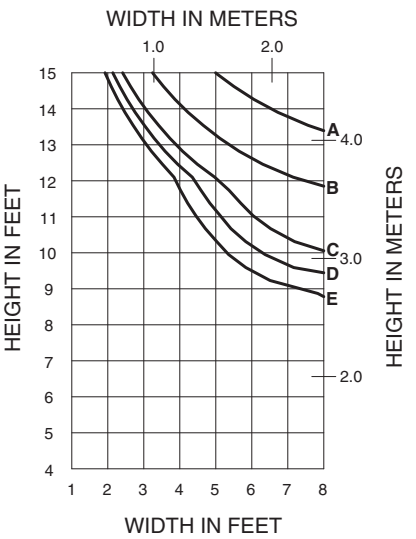




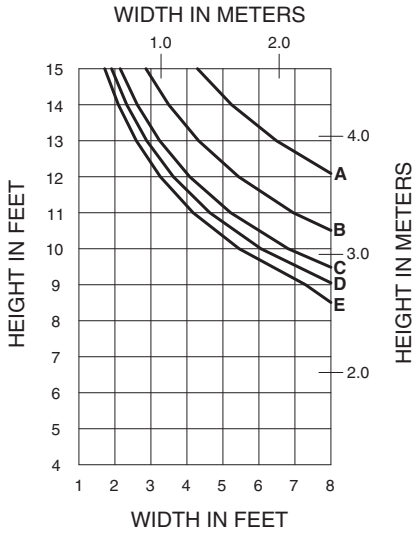
601TCG112
WITH 450-110 STEEL

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

WITHOUT HORIZONTALS



WITH HORIZONTALS

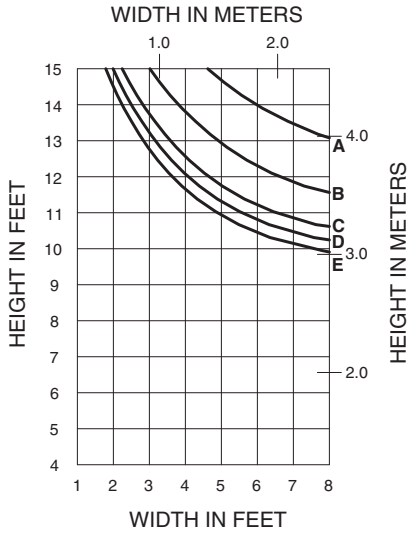


A = 20 PSF (960 Pa)
B = 30 PSF (1440 Pa)
C = 40 PSF (1920 Pa)
D = 45 PSF (2160 Pa)
E = 50 PSF (2400 Pa)

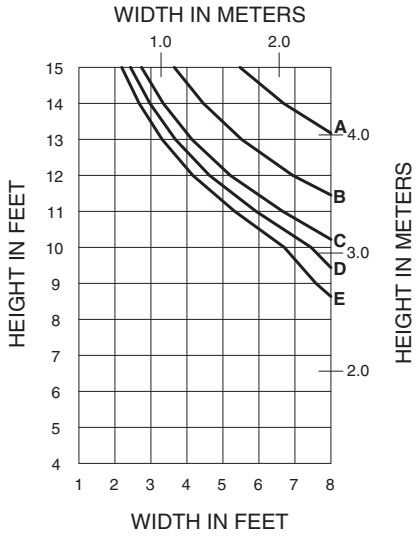
601TCG010

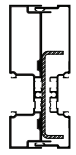
WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

WITHOUT HORIZONTALS



WITH HORIZONTALS

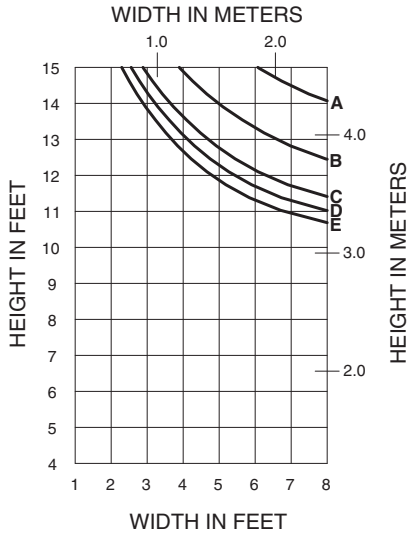




601TCG010
WITH 400-110 STEEL

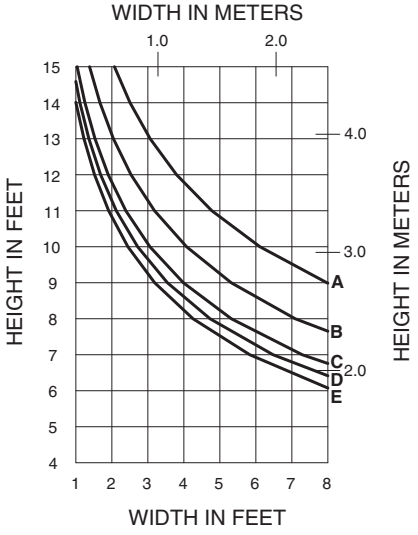
WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

WITHOUT HORIZONTALS



A = 20 PSF (960 Pa)
B = 30 PSF (1440 Pa)
C = 40 PSF (1920 Pa)
D = 45 PSF (2160 Pa)
E = 50 PSF (2400 Pa)

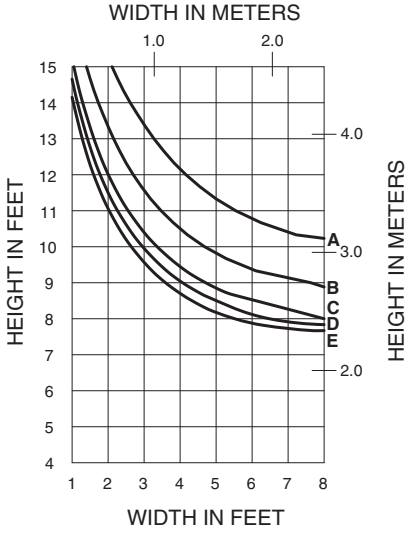
WITH HORIZONTALS



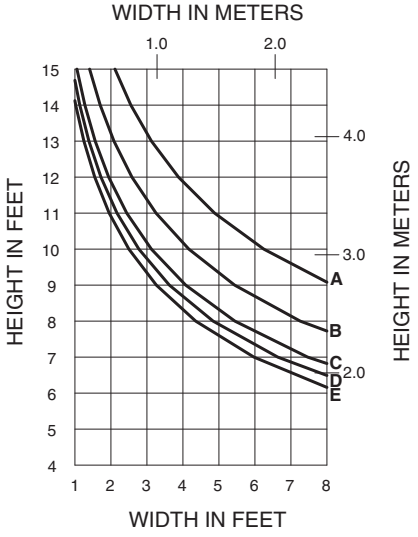
601UTCG001

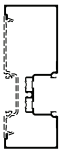
WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

WITHOUT HORIZONTALS



WITH HORIZONTALS

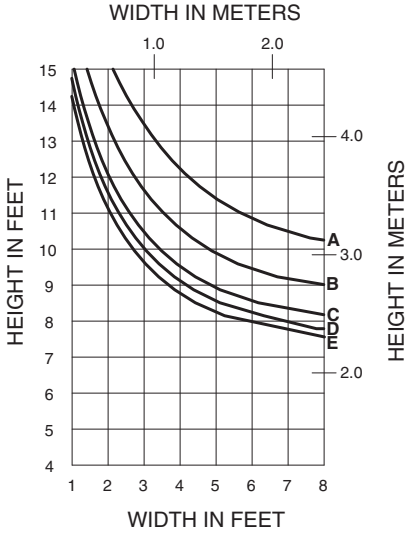




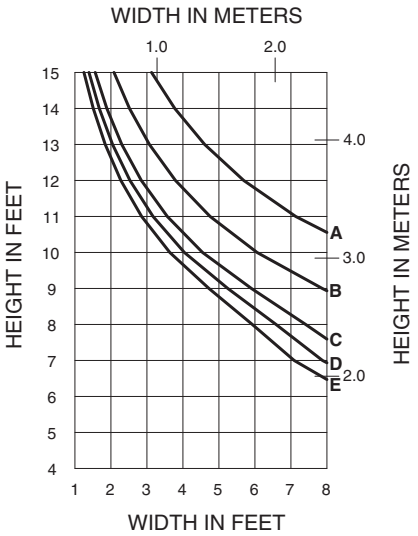
601UTCG112

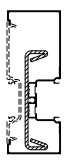
WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

WITHOUT HORIZONTALS



WITH HORIZONTALS

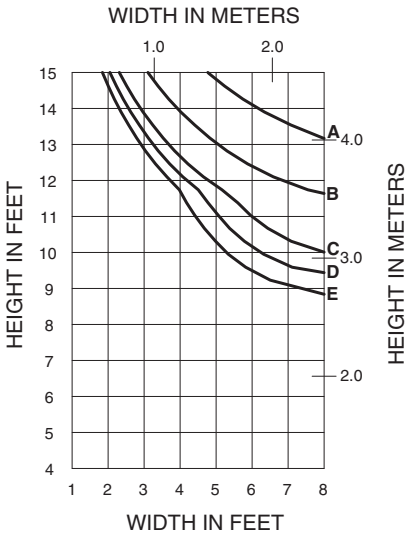




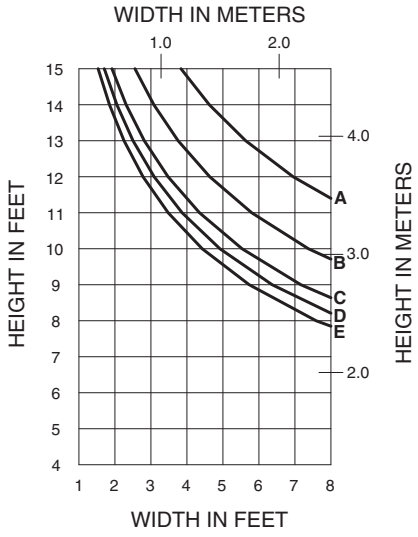
601UTCG112
WITH 450-110 STEEL

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

WITHOUT HORIZONTALS



WITH HORIZONTALS

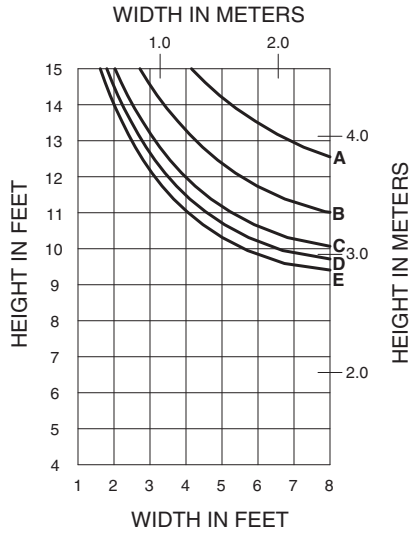


A = 20 PSF (960 Pa)
B = 30 PSF (1440 Pa)
C = 40 PSF (1920 Pa)
D = 45 PSF (2160 Pa)
E = 50 PSF (2400 Pa)

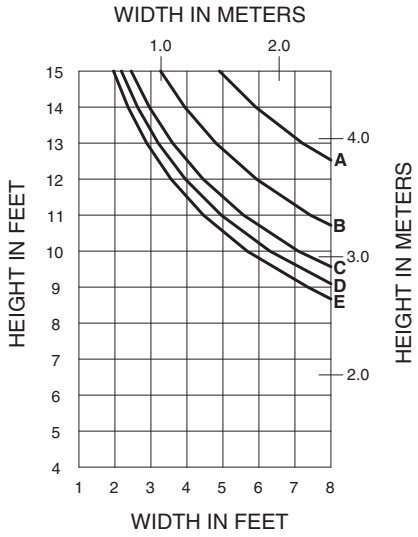
601UTCG010

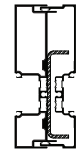
WINDLOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

WITHOUT HORIZONTALS



WITH HORIZONTALS

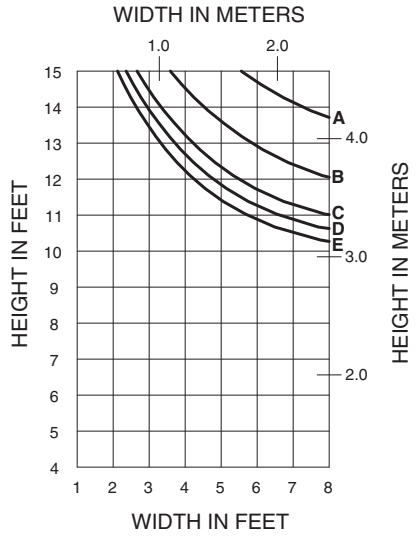




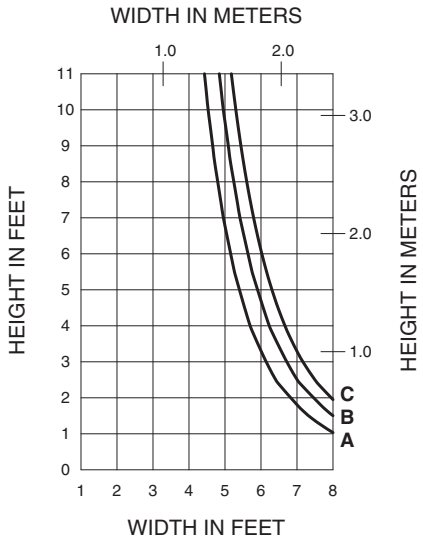
601UTCG010
WITH 400-110 STEEL

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

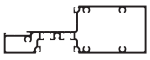
WITHOUT HORIZONTALS



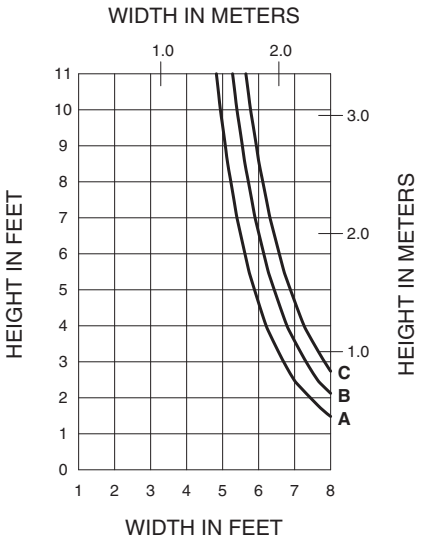
A = (1/4 POINT LOADING)
B = (1/6 POINT LOADING)
C = (1/8 POINT LOADING)



601CG011

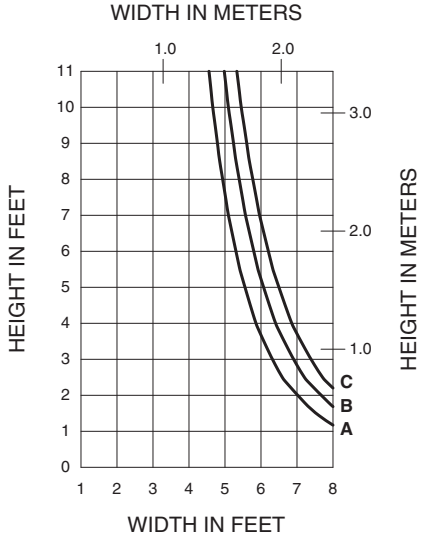


601CG021



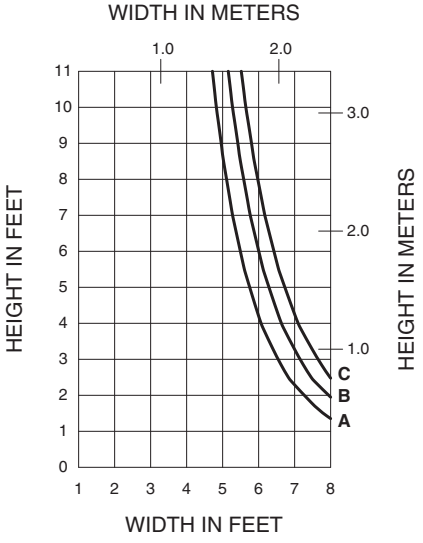
Height limitations for transom glass over a doorway are based upon a 1/16" (1.6) maximum allowable deflection at the center of a transom bar. The accompanying charts are calculated for 1" (25.4) thick insulating glass supported on two setting blocks placed at the loading points shown.

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

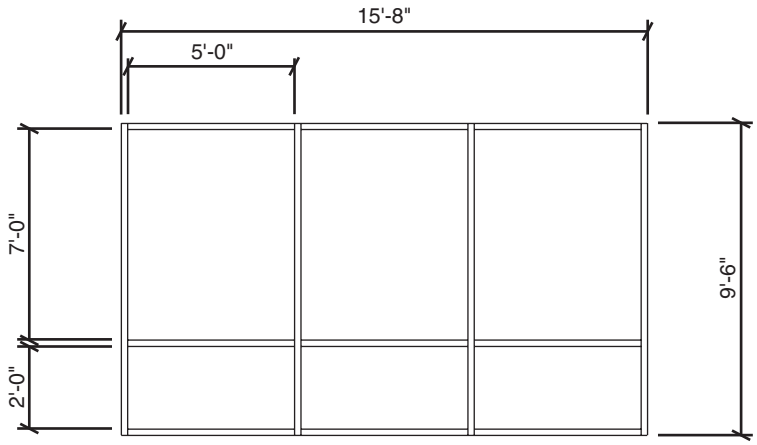


601037
HEADER / T-BAR

601079
C.O.C. HEADER /
T-BAR



Project Specific U-factor Example Calculation



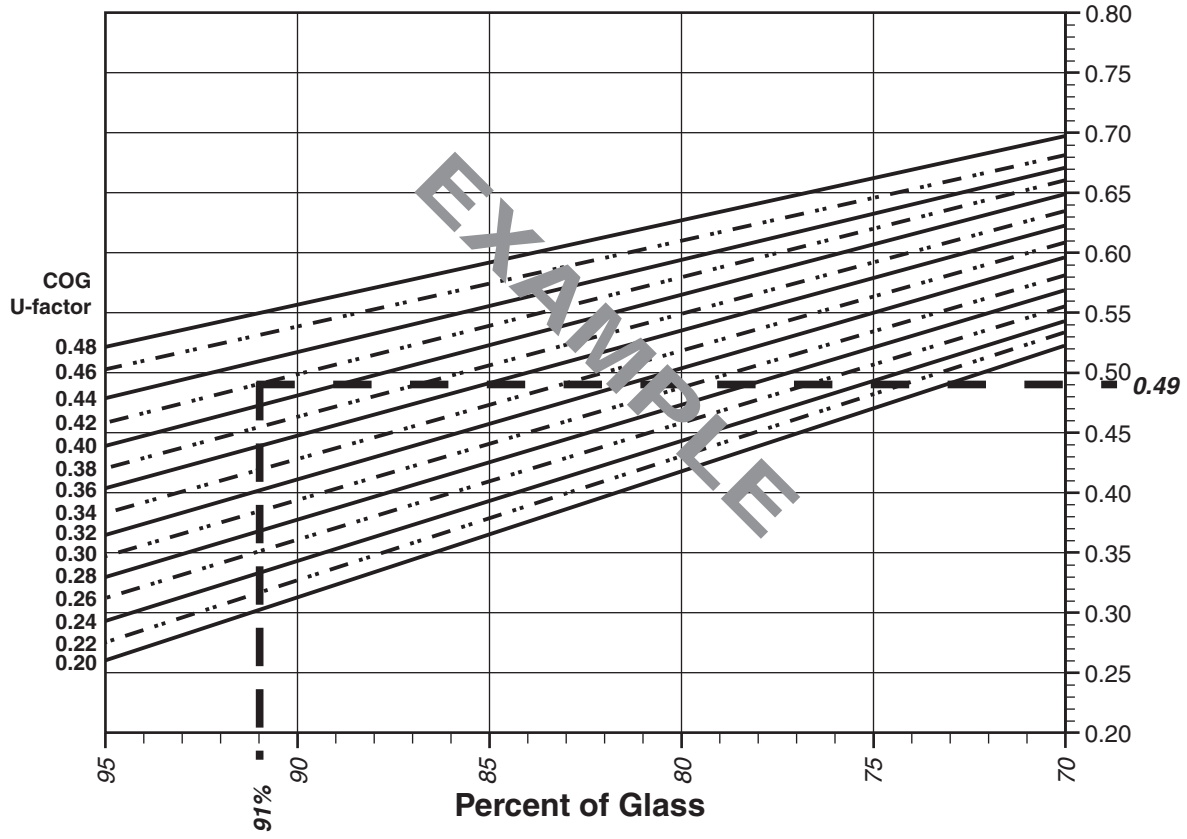
Example Glass U-factor = 0.42 Btu/hr·ft²·°F

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

Total Projected Area = (Total Daylight Opening + Total Area of Framing System)
= 15'-8" x 9'-6" = 148.83ft²

Percent of Glass = (Total Daylight Opening ÷ Total Projected Area)
= (135 ÷ 148.83)100 = 91%

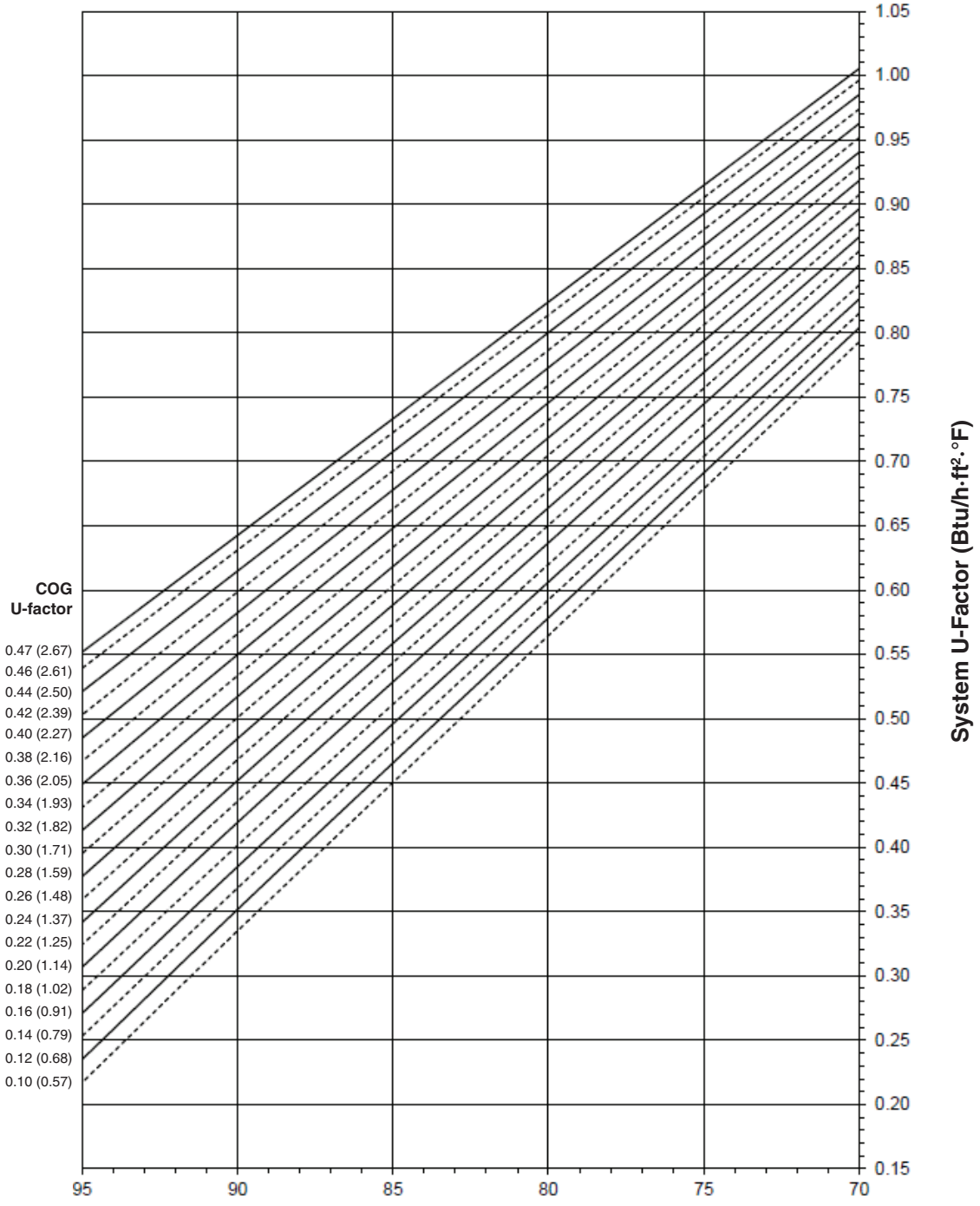
System U-factor vs Percent of Glass Area



Based on 91% glass and center of glass (COG) U-factor of 0.42
System U-factor is equal to 0.49 Btu/hr x ft² x °F

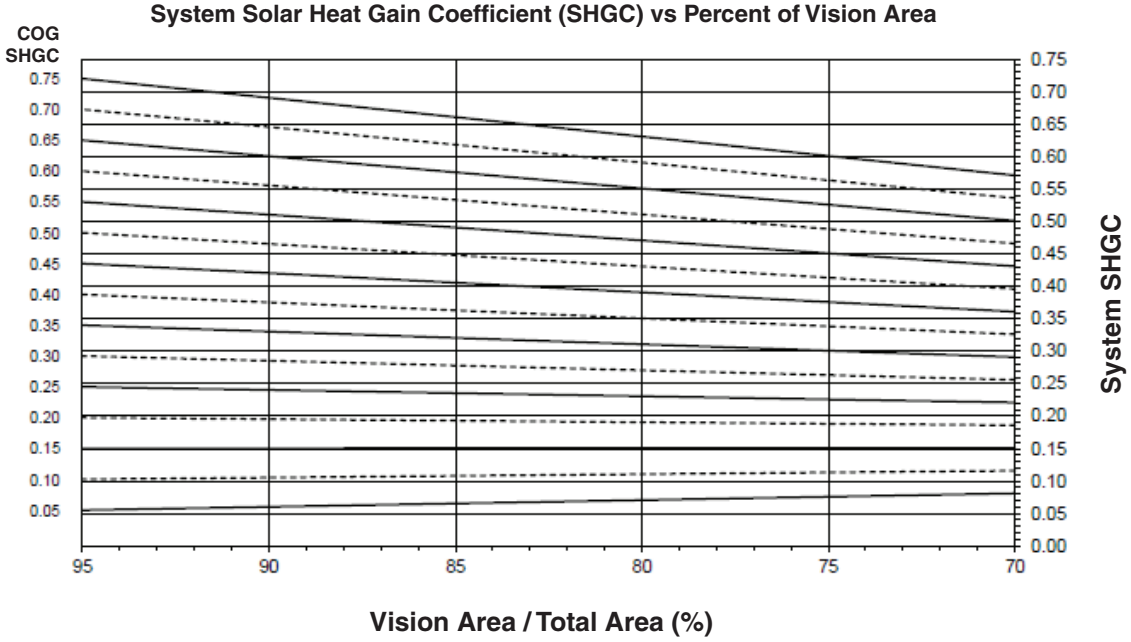
Note:
Values in parentheses are metric.
COG=Center of Glass.
Charts are generated per AAMA 507.

Trifab® 601
System U-Factor for Vision Glass



Trifab® 601

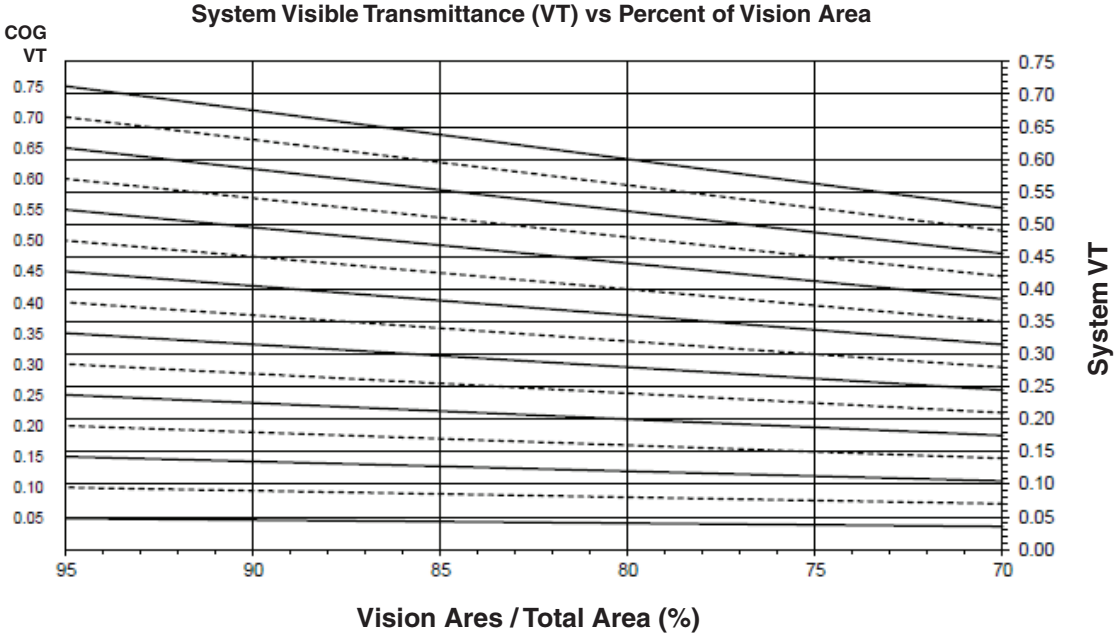
System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



Charts are generated per AAMA 507.

Trifab® 601

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

Trifab® 601

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

Glass U-Factor [3]	Overall U-Factor [4]
0.48	0.68
0.46	0.67
0.44	0.66
0.42	0.64
0.40	0.63
0.38	0.61
0.36	0.59
0.34	0.58
0.32	0.56
0.30	0.55
0.28	0.53
0.26	0.52
0.24	0.50
0.22	0.48
0.20	0.47
0.18	0.45
0.16	0.44
0.14	0.42
0.12	0.40
0.10	0.39

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").

Trifab® 601
SHGC Matrix [2]

Glass SHGC [3]	Overall SHGC [4]
0.75	0.68
0.70	0.63
0.65	0.59
0.60	0.55
0.55	0.50
0.50	0.46
0.45	0.41
0.40	0.37
0.35	0.33
0.30	0.28
0.25	0.24
0.20	0.19
0.15	0.15
0.10	0.11
0.05	0.06

Trifab® 601
Visible Transmittance [2]

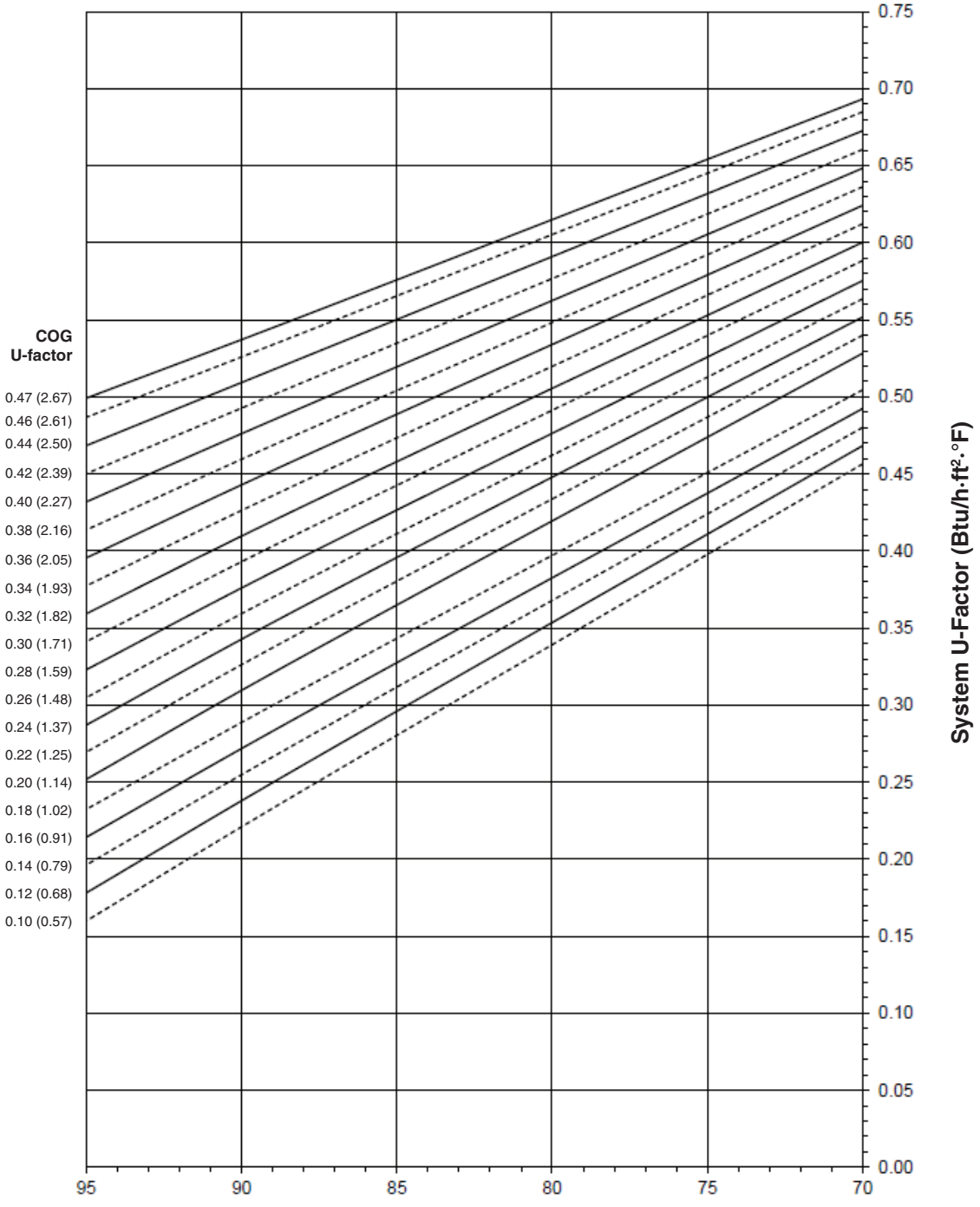
Glass VT [3]	Overall VT [4]
0.75	0.66
0.70	0.61
0.65	0.57
0.60	0.53
0.55	0.48
0.50	0.44
0.45	0.39
0.40	0.35
0.35	0.31
0.30	0.26
0.25	0.22
0.20	0.18
0.15	0.13
0.10	0.09
0.05	0.04

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").

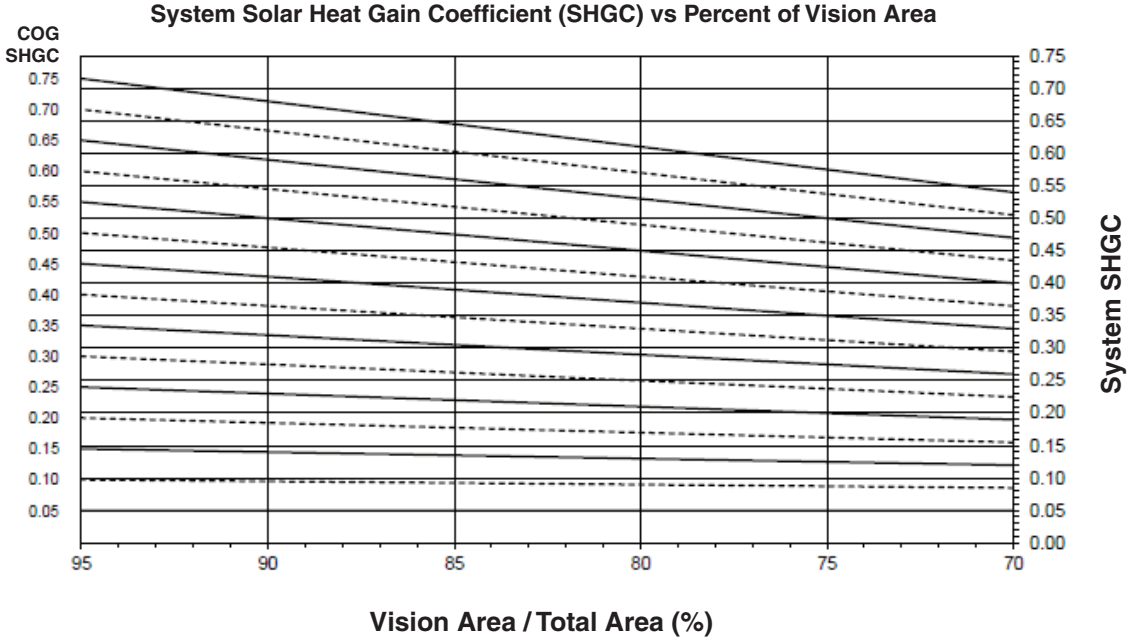
Note:
Values in parentheses are metric.
COG=Center of Glass.
Charts are generated per AAMA 507.

Trifab® 601T
System U-Factor for Vision Glass



Trifab® 601T

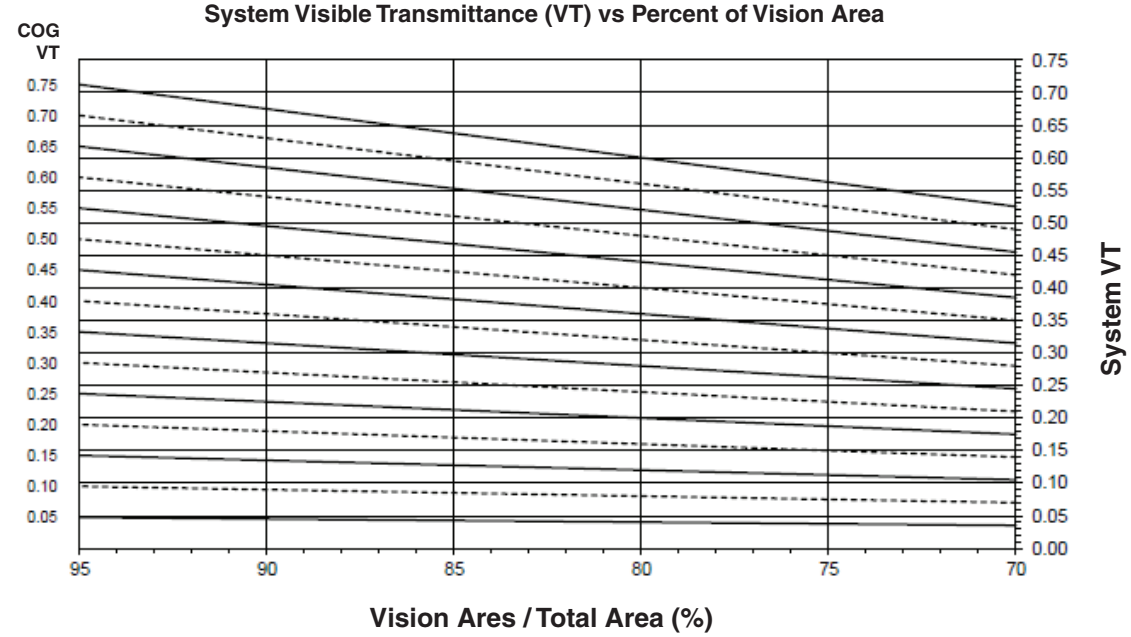
System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



Charts are generated per AAMA 507.

Trifab® 601T

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

Trifab® 601T

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

Glass U-Factor [3]	Overall U-Factor [4]
0.48	0.55
0.46	0.54
0.44	0.53
0.42	0.51
0.40	0.50
0.38	0.48
0.36	0.46
0.34	0.45
0.32	0.43
0.30	0.42
0.28	0.40
0.26	0.38
0.24	0.37
0.22	0.35
0.20	0.34
0.18	0.31
0.16	0.30
0.14	0.28
0.12	0.26
0.10	0.25

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").

Trifab® 601T
SHGC Matrix [2]

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	0.44
0.45	0.40
0.40	0.36
0.35	0.31
0.30	0.27
0.25	0.23
0.20	0.18
0.15	0.14
0.10	0.09
0.05	0.05

Trifab® 601T
Visible Transmittance [2]

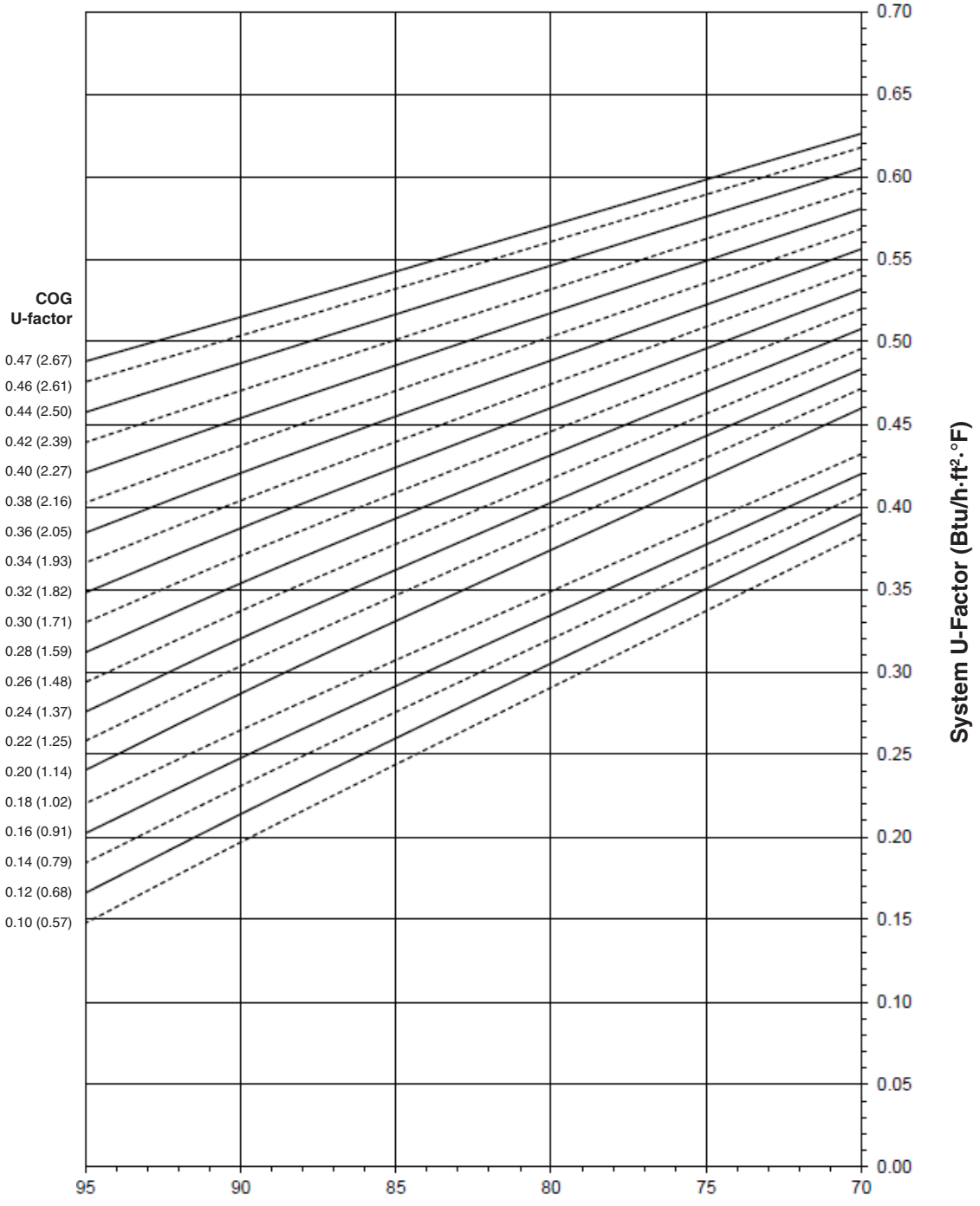
Glass VT [3]	Overall VT [4]
0.75	0.66
0.70	0.61
0.65	0.57
0.60	0.53
0.55	0.48
0.50	0.44
0.45	0.39
0.40	0.35
0.35	0.31
0.30	0.26
0.25	0.22
0.20	0.18
0.15	0.13
0.10	0.09
0.05	0.04

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").

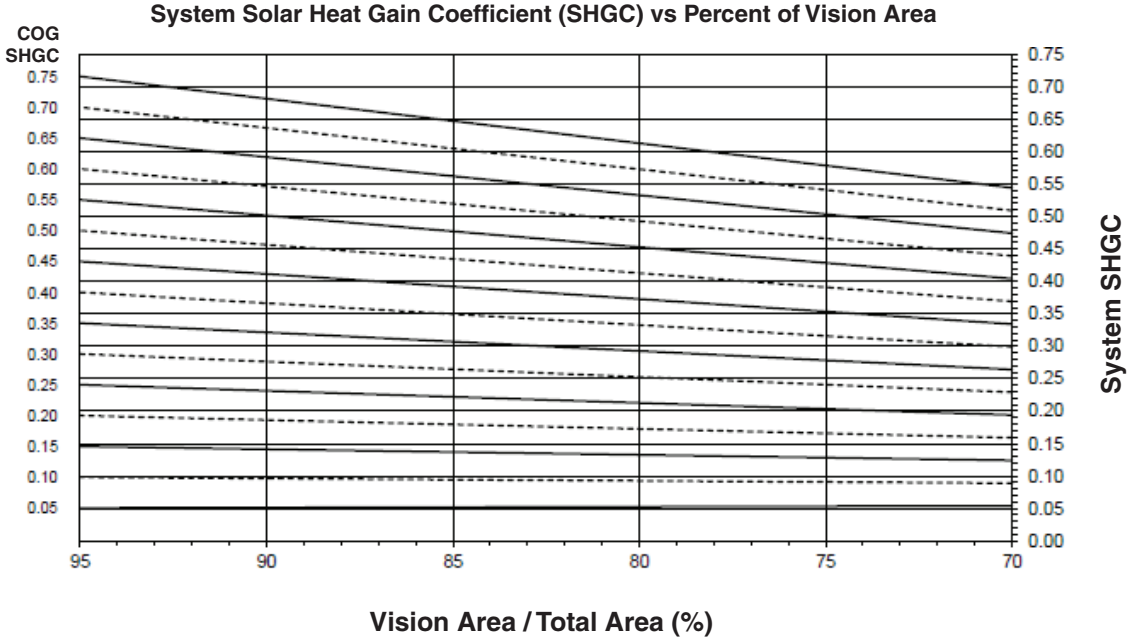
Note:
Values in parentheses are metric.
COG=Center of Glass.
Charts are generated per AAMA 507.

Trifab® 601UT
System U-Factor for Vision Glass



Trifab® 601UT

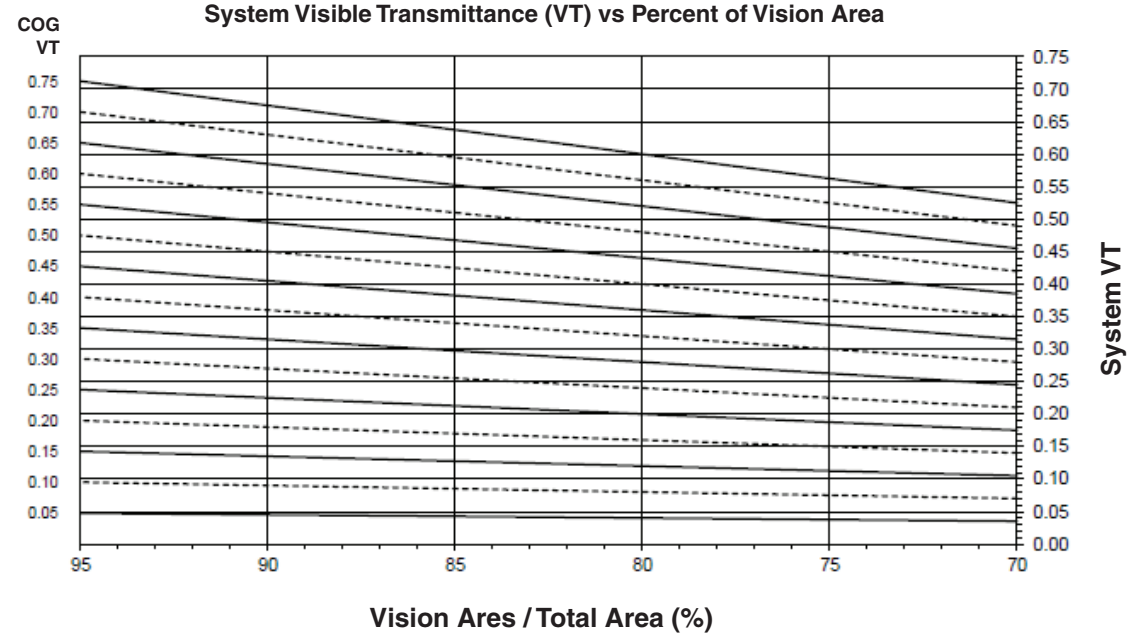
System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



Charts are generated per AAMA 507.

Trifab® 601UT

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.

Trifab® 601UT

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

Glass U-Factor [3]	Overall U-Factor [4]
0.48	0.53
0.46	0.52
0.44	0.50
0.42	0.48
0.40	0.47
0.38	0.45
0.36	0.44
0.34	0.42
0.32	0.40
0.30	0.39
0.28	0.37
0.26	0.36
0.24	0.34
0.22	0.32
0.20	0.31
0.18	0.28
0.16	0.27
0.14	0.25
0.12	0.24
0.10	0.22

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").

Trifab® 601UT
SHGC Matrix [2]

Glass SHGC [3]	Overall SHGC [4]
0.75	0.67
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	0.31
0.30	0.27
0.25	0.23
0.20	0.18
0.15	0.14
0.10	0.10
0.05	0.05

Trifab® 601UT
Visible Transmittance [2]

Glass VT [3]	Overall VT [4]
0.75	0.66
0.70	0.61
0.65	0.57
0.60	0.53
0.55	0.48
0.50	0.44
0.45	0.39
0.40	0.35
0.35	0.31
0.30	0.26
0.25	0.22
0.20	0.18
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").