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EC 97911-347

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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



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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.

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

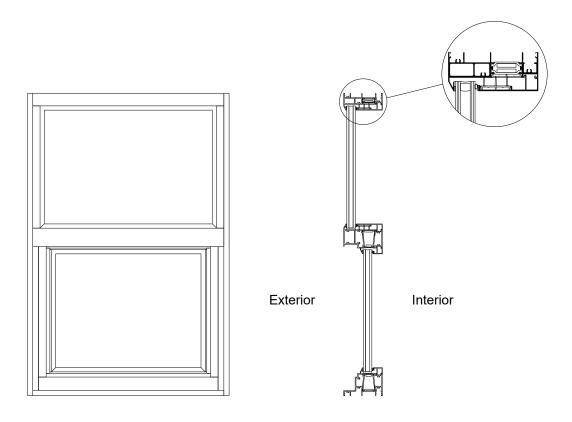
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PROJECT-IN REPLICA WINDOW

# **Standard Features**

- Architectural Grade Window
- Tested to US and Canadian Standards
- Polyamide Thermal Break
- Tubular Profiles
- · Coped and Screw Splined Frame Joinery
- · Factory Silicone Glazed
- Interior Applied Glazing Bead
- · Architectural Anodized Finishes and Applied Coatings
- · Interior and Exterior Dual Finish Options



Project-In Replica Window

For specific product applications, consult your Kawneer representative.



PROJECT-IN REPLICA

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widel Kawneer does not control the selection of product configurations, operating
---

CLASS and GRADE	Architectural Class AW-PG65-FW
TESTING STANDARD	AAMA / WDMA / CSA 101 / I.S.2 / A440-17 / A440-22
FRAME DEPTH	4-5/8" Overall Frame Depth
TYPICAL WALL THICKNESS	.100" Nominal Frame
TYPICAL MAXIMUM SIZE	60" x 120"
TYPICAL MINIMUM SIZE	14-1/4" x 24"
TYPICAL CONFIGURATIONS	
INFILL OPTIONS	1"
STANDARD HARDWARE	Not Applicable
OPTIONAL HARDWARE	Not Applicable
OTHER OPTIONS	Structural Mullions Horizontally Stacked Receptor and Sub Sill Exterior Pannings and Interior Trims Exterior and Interior Tape Applied Muntins Between the Glass Muntins



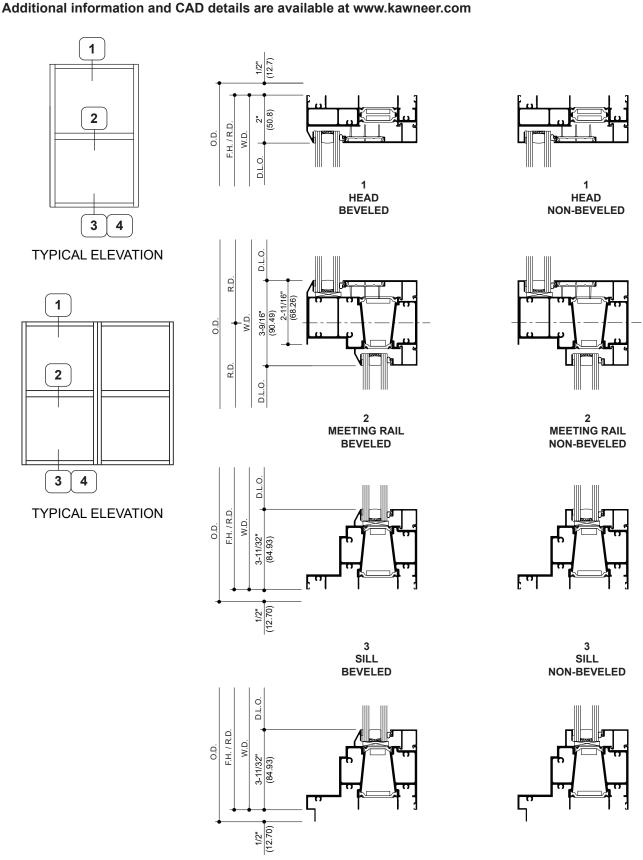
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PROJECT-IN REPLICA WINDOW

# 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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#### Aller II C. C. LOAD LOB ...





**PANNING SILL** 

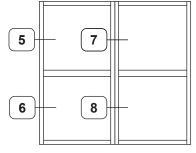
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**PANNING SILL** 

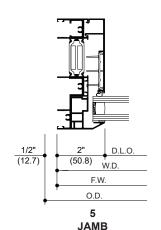
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# Additional information and CAD details are available at www.kawneer.com

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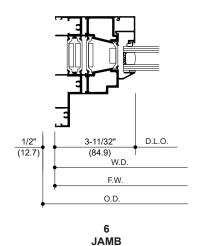


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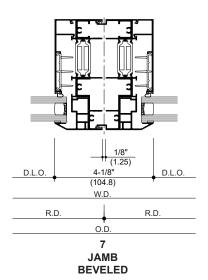


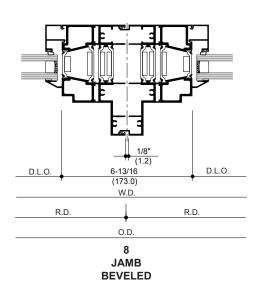
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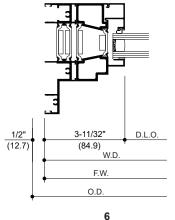
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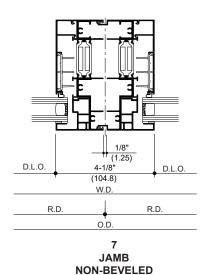
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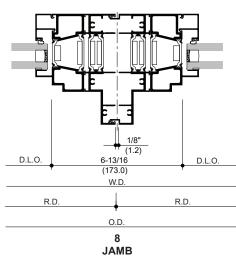






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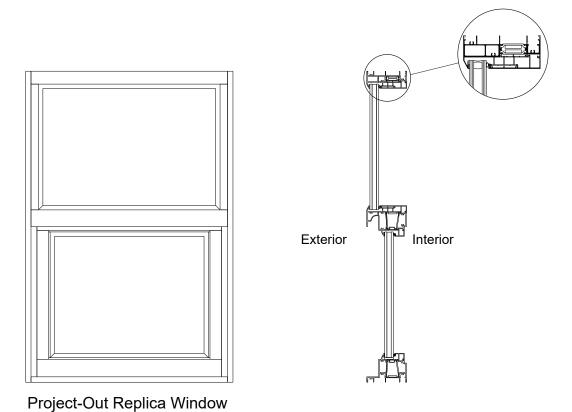
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PROJECT-OUT REPLICA WINDOW

# **Standard Features**

- · Architectural Grade Window
- Tested to US and Canadian Standards
- · Polyamide Thermal Break
- Tubular Profiles
- · Coped and Screw Splined Frame Joinery
- · Factory Silicone Glazed
- · Interior Applied Glazing Bead
- · Architectural Anodized Finishes and Applied Coatings
- · Interior and Exterior Dual Finish Options



For specific product applications, consult your Kawneer representative.



# OptiQ® Offset Fixed Projected Window

PROJECT-OUT REPLICA WINDOW

EC 97911-347

CLASS and GRADE	Architectural Class AW-PG65-FW	
TESTING STANDARD	AAMA / WDMA / CSA 101 / I.S.2 / A440-17 / A440-22	
FRAME DEPTH	4-5/8" Overall Frame Depth	
TYPICAL WALL THICKNESS	.100" Nominal Frame	
TYPICAL MAXIMUM SIZE	60" x 120"	
TYPICAL MINIMUM SIZE	14-1/4" x 24"	
TYPICAL CONFIGURATIONS		
INFILL OPTIONS	1"	
STANDARD HARDWARE	Not Applicable	
OPTIONAL HARDWARE	Not Applicable	
OTHER OPTIONS	Structural Mullions Horizontally Stacked Receptor and Sub Sill Exterior Pannings and Interior Trims Exterior and Interior Tape Applied Muntins Between the Glass Muntins	

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.



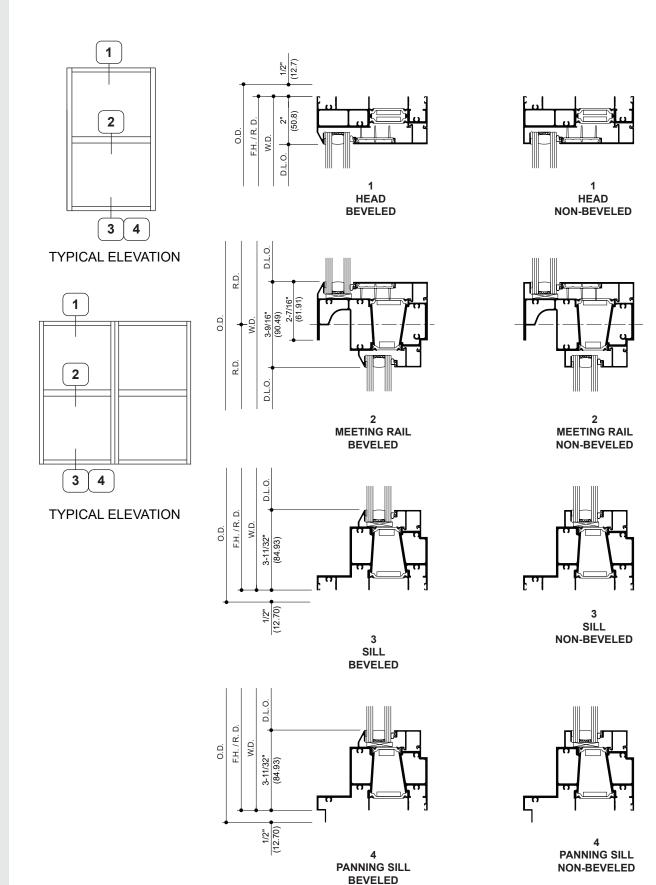
# OptiQ® Offset Fixed Projected Window

EC 97911-347

PROJECT-OUT REPLICA WINDOW

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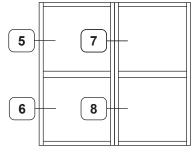
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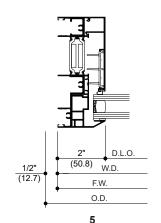


## Additional information and CAD details are available at www.kawneer.com

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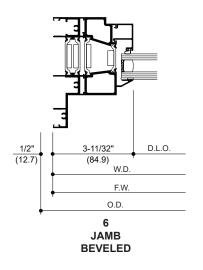


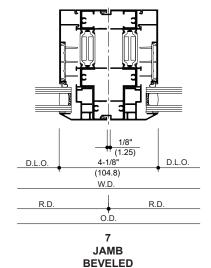
TYPICAL ELEVATION

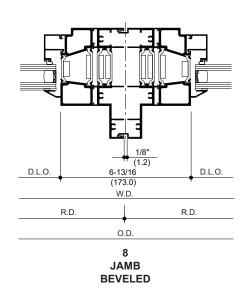


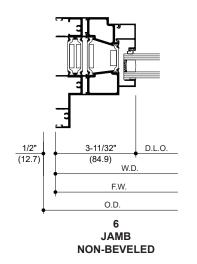
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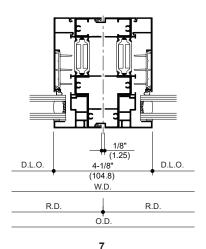
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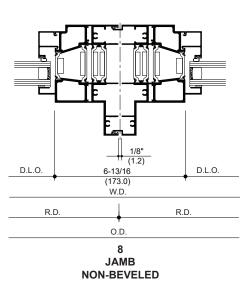






**JAMB** 

**NON-BEVELED** 





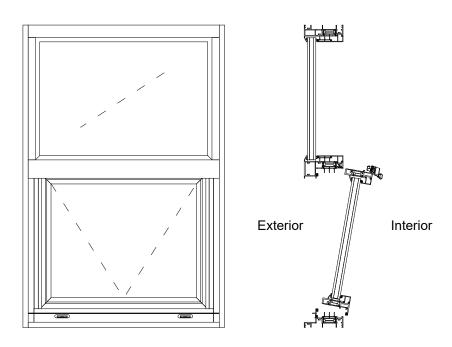
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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EC 97911-347 PROJECT-IN WINDOW

# **Standard Features**

- Architectural Grade Window
- Tested to US and Canadian Standards
- Polyamide Thermal Break
- Tubular Profiles
- · Coped and Screw Splined Frame Joinery
- 45° Mitered and Staked Corner Joinery
- Factory Silicone Glazed
- Adjustable EURO-Groove Mounted Hardware
- Architectural Anodized Finishes and Applied Coatings
- · Interior and Exterior Dual Finish Options



Projected-In Window

For specific product applications, consult your Kawneer representative.



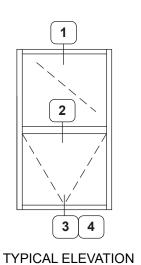
PROJECT-IN WINDOW

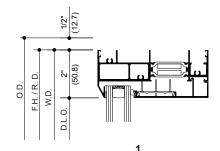
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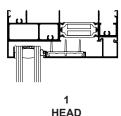
CLASS and GRADE	Architectural Class AW-PG65-FW	
TESTING STANDARD	AAMA / WDMA / CSA 101 / I.S.2 / A440-17 / A440-22	
FRAME DEPTH	4-5/8" Overall Frame Depth / 3-1/4" Vent Depth	
TYPICAL WALL THICKNESS	.100" Nominal Frame100" Nominal Vent	
TYPICAL MAXIMUM SIZE	60" x 120" Frame with 60" x 60" Vent	
TYPICAL MINIMUM SIZE	14-1/4" x 24" Frame with 14-1/4" x 12" Vent	
TYPICAL CONFIGURATIONS		
INFILL OPTIONS	1"	
STANDARD HARDWARE	Stainless Steel 4-Bar Hinges Cast White Bronze Cam Handles	
OPTIONAL HARDWARE	Access Control Locks Pole and Pole Ring Limit Stop	
OTHER OPTIONS	Structural Mullions Horizontally Stacked Insect Screens Receptor and Sub Sill Exterior Pannings and Interior Trims Exterior and Interior Tape Applied Muntins Between the Glass Muntins	



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

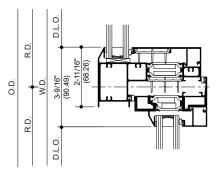






PROJECT-IN WINDOW

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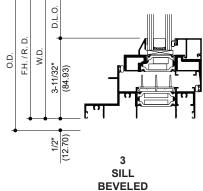
**HEAD** 

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**MEETING RAIL BEVELED** 

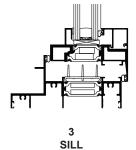




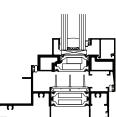
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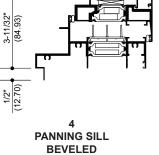
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O.D.



**NON-BEVELED** 



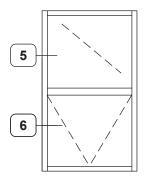


**PANNING SILL NON-BEVELED** 

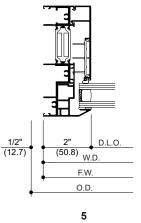


### Additional information and CAD details are available at www.kawneer.com

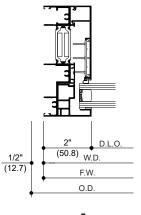
PROJECT-IN WINDOW



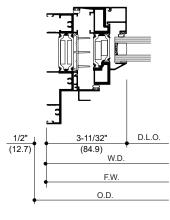
TYPICAL ELEVATION



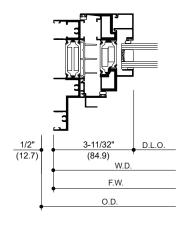
**JAMB BEVELED** 



5 **JAMB NON-BEVELED** 



6 PANNING SILL **BEVELED** 



6 **PANNING SILL NON-BEVELED** 

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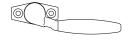
PROJECT-IN WINDOW

# STAINLESS STEEL **4 BAR HINGES**



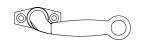
A standard hinge for ventilators providing approximately 45° to 60° openings depending on size. An optional limit stop is available to restrict hinge travel and limit vent opening.

### **CAM HANDLE**



Cast white bronze cam handles are an alternative to standard multi-point locking for the operation and locking of ventilators.

# **CAM HANDLE** WITH POLE RING



Cast white bronze cam handles with pole ring provide manual operation of ventilators located above reach. These handles are operated with a sash pole.

#### **POLE RING**



Cast white bronze pole ring is used in conjunction with locking hardware for sash pole operation of ventilators.

## **SASH POLE**



A 3/4" diameter aluminum sash pole with a cast white bronze pull down hook and black rubber tip. Available in 6 ft. and 12 ft. lengths with optional cast white bronze Pole Hanger.

# HANGER FOR SASH POLE

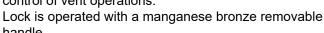


In lieu of cam handles and multi-point locking cast white bronze access control locks are offered for managed control of vent operations.

**ACCESS CONTROL** LOCK



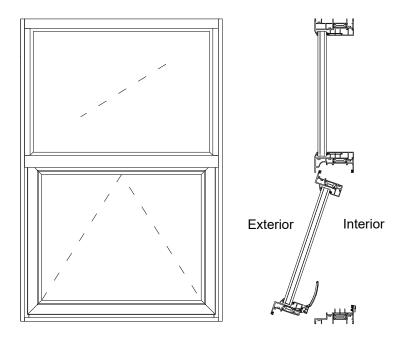
handle.





# **Standard Features**

- · Architectural Grade Window
- Tested to US and Canadian Standards
- · Polyamide Thermal Break
- Tubular Profiles
- · Coped and Screw Splined Frame Joinery
- 45° Mitered and Staked Corner Joinery
- · Factory Silicone Glazed
- Adjustable EURO-Groove Mounted Hardware
- · Architectural Anodized Finishes and Applied Coatings
- Interior and Exterior Dual Finish Options



**Project-Out Window** 

For specific product applications, consult your Kawneer representative.



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

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# OptiQ® Offset Fixed Projected Window

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PROJECT-OUT WINDOW

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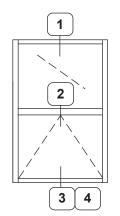
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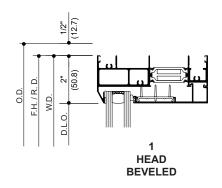
CLASS and GRADE	Architectural Class AW-PG65-FW	
TESTING STANDARD	AAMA / WDMA / CSA 101 / I.S.2 / A440-17 / A440-22	
FRAME DEPTH	4-5/8" Overall Frame Depth / 3-1/4" Vent Depth	
TYPICAL WALL THICKNESS	.100" Nominal Frame100" Nominal Vent	
TYPICAL MAXIMUM SIZE	60" x 120" Frame with 60" x 36" Vent	
TYPICAL MINIMUM SIZE	14-1/4" x 24" Frame with 14-1/4" x 12" Vent	
TYPICAL CONFIGURATIONS		
INFILL OPTIONS	1"	
STANDARD HARDWARE	Stainless Steel 4-Bar Hinges Cast White Bronze Cam Handles	
OPTIONAL HARDWARE	Access Control Locks Pole and Pole Ring Limit Stop	
OTHER OPTIONS	Structural Mullions Horizontally Stacked Insect Screens Receptor and Sub Sill Exterior Pannings and Interior Trims Exterior and Interior Tape Applied Muntins Between the Glass Muntins	

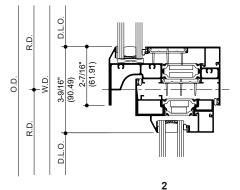


### Additional information and CAD details are available at www.kawneer.com

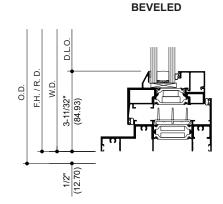


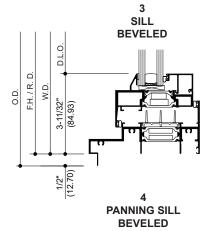
TYPICAL ELEVATION

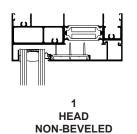


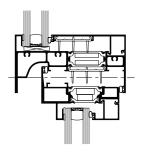


**MEETING RAIL** 

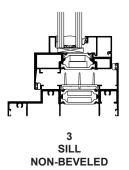


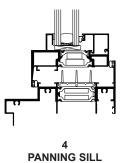






**MEETING RAIL NON-BEVELED** 





**NON-BEVELED** 

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

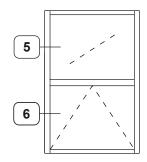
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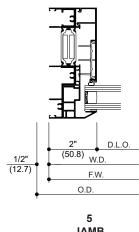


kawneer.com

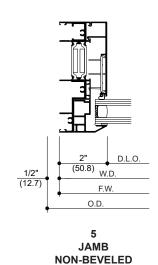
# Additional information and CAD details are available at www.kawneer.com



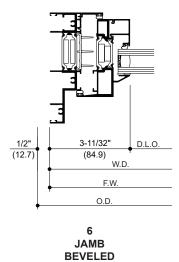
TYPICAL ELEVATION

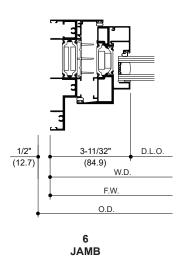






PROJECT-OUT WINDOW

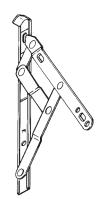




**NON-BEVELED** 

KAWNEER

# STAINLESS STEEL 4 BAR HINGES



A standard hinge for ventilators providing approximately 45° to 60° openings depending on size. An optional limit stop is available to restrict hinge travel and limit vent opening.

# **CAM HANDLE**



Cast white bronze cam handles are an alternative to standard multi-point locking for the operation and locking of ventilators.

### CAM HANDLE WITH POLE RING



Cast white bronze cam handles with pole ring provide manual operation of ventilators located above reach. These handles are operated with a sash pole.

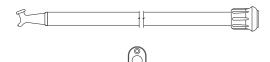
#### **POLE RING**



Cast white bronze pole ring is used in conjunction with locking hardware for sash pole operation of ventilators.

#### **SASH POLE**

**HANGER** 



A 3/4" diameter aluminum sash pole with a cast white bronze pull down hook and black rubber tip. Available in 6 ft. and 12 ft. lengths with optional cast white bronze Pole Hanger.

# ACCESS CONTROL LOCK

**FOR SASH POLE** 



In lieu of cam handles and multi-point locking cast white bronze access control locks are offered for managed control of vent operations.

Lock is operated with a manganese bronze removable handle.

KAWNEER

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

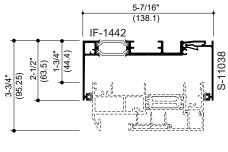
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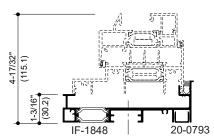
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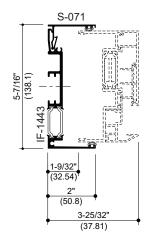
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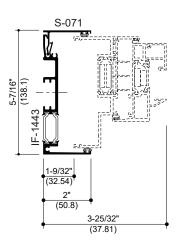
**RECEPTORS** EC 97911-347

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

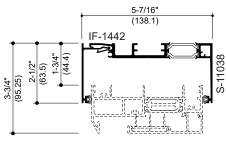


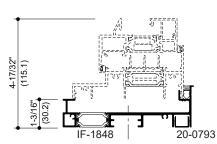


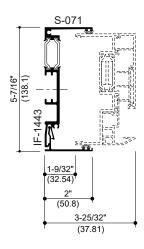


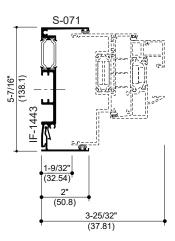


# **HEAD & JAMB RECEPTORS** (INTERIOR INSTALLED)









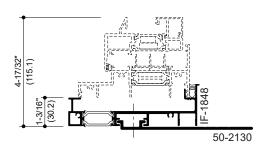
# **HEAD & JAMB RECEPTORS** (EXTERIOR INSTALLED)



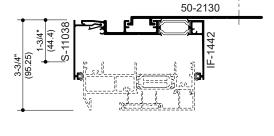
#### Additional information and CAD details are available at www.kawneer.com

#### NOTE:

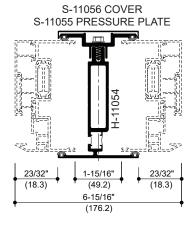
Interior glazed shown, exterior glazed similar.



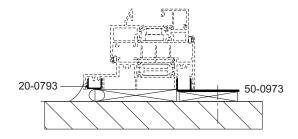
# **SUB SILL WITH STRAP ANCHOR**



STRAP ANCHOR WITH **RECEPTOR** 



**3-PIECE MULLION** 



STRAP ANCHOR WITHOUT **RECEPTOR** 

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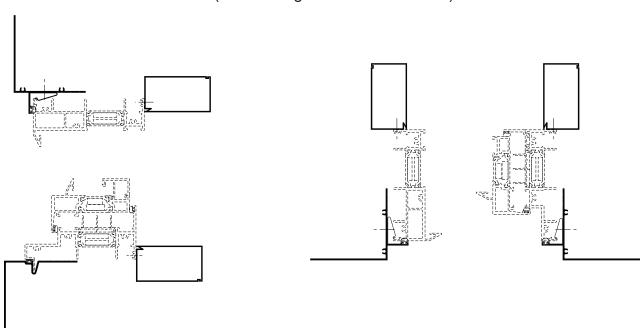
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EC 97911-347 PANNINGS

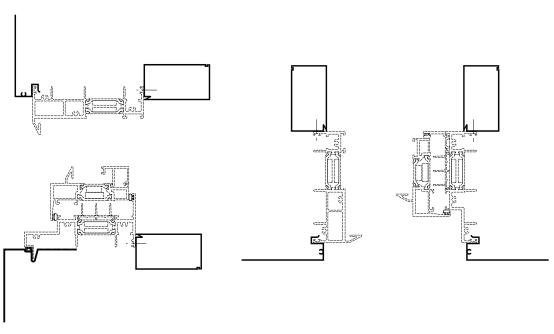
# **PRE-SET PANNING**

(XA Panning and XX Trim Shown)



# WRAP AROUND PANNING

(E-E-E Panning and XX Trim Shown)





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

WIND LOAD / DEADLOAD CHARTS

#### 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 (104MPa), STEEL 30,000 psi (207MPa). 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.

### **DEADLOAD CHARTS**

Horizontal or deadload limitations are based upon 1/16" (1.6) at operable vents or 1/8" (3.2) at fixed openings, maximum allowable deflection at the center of an itermediate horizontal member. The accompanying charts are calculated for 1" (25.4) thick insulating glass supported on two setting blocks placed at the loading points shown.

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 malerials, and assumes no responsibility therefor.

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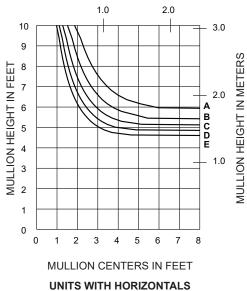
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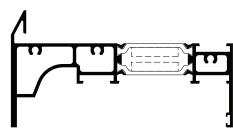
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WIND LOAD CHARTS EC 97911-347

	Allowable Stress	LRFD Ultimate
	Design Load	Design Load
A =	45 PSF (2160)	75 PSF (3600)
B =	55 PSF (2630)	90 PSF (4300)
C =	65 PSF (3120)	108 PSF (5180)
D =	75 PSF (3600)	125 PSF (6000)
E =	85 PSF (4070)	140 PSF (6700)

# MULLION CENTERS IN METERS

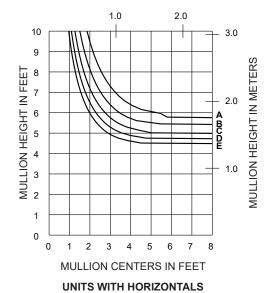


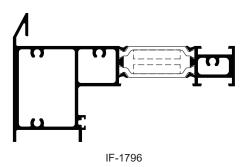


IF-1794

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

#### MULLION CENTERS IN METERS





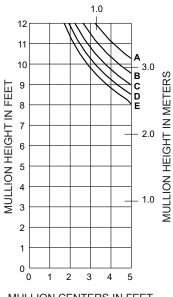
WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505



	Allowable Stress	LRFD Ultimate
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A =	45 PSF (2160)	75 PSF (3600)
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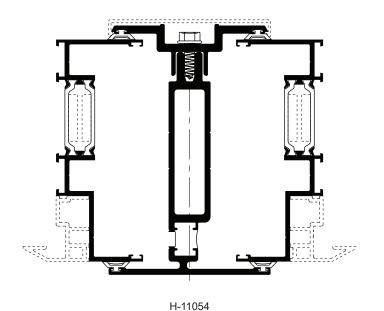
#### MULLION CENTERS IN METERS

WIND LOAD CHARTS



MULLION CENTERS IN FEET

**UNITS WITH HORIZONTALS** 



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

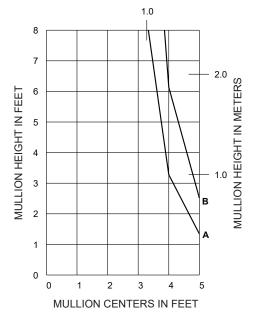


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EC 97911-347 **DEADLOAD CHARTS** 

#### MULLION CENTERS IN METERS



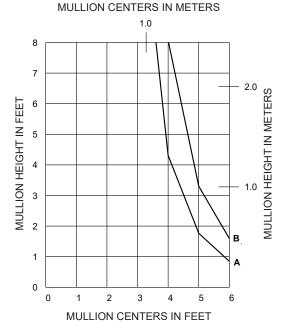
**UNITS WITH HORIZONTALS** 1/8" DEFLECTION



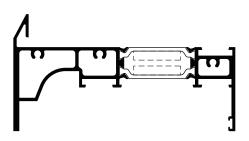
IF-1799

A= 1" GLASS - 1/4 POINT LOADING B= 1" GLASS - 1/8 POINT LOADING **BASED ON 6.5 PSF GLASS WEIGHT** 

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



**UNITS WITH HORIZONTALS** 1/16" DEFLECTION



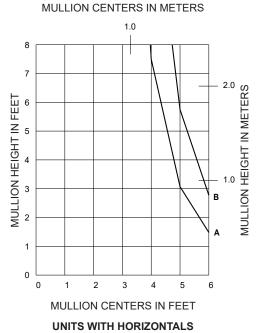
IF-1794

A= 1" GLASS - 1/4 POINT LOADING B= 1" GLASS - 1/8 POINT LOADING **BASED ON 6.5 PSF GLASS WEIGHT** 

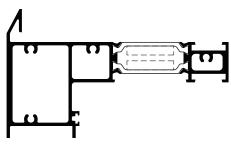
WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505



DEADLOAD CHARTS



1/8" DEFLECTION



IF-1796

A= 1" GLASS - 1/4 POINT LOADING B= 1" GLASS - 1/8 POINT LOADING **BASED ON 6.5 PSF GLASS WEIGHT** 

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

KAWNEER

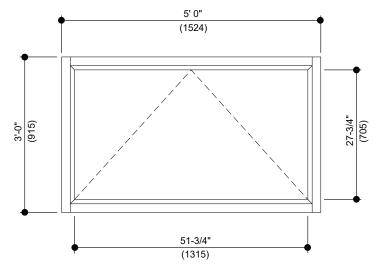
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THERMAL CHARTS EC 97911-347

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



Example Glass U-Factor = 0.42 Btu/hr • ft<sup>2</sup> • °F

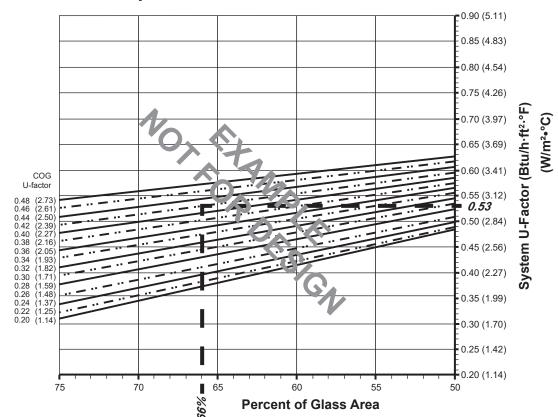
Total Daylight Opening = 27-3/4" • 51-3/4" = 9.97ft<sup>2</sup>

Total Projected Area  $= 3'-0" \cdot 5'-0" = 15 \text{ ft}^2$ 

Percent of Glass = (Total Daylight Opening ÷ Total Projected Area)100

 $= (9.97 \div 15)100 = 66\%$ 

## System U-factor vs Percent of Glass Area



Based on 66% glass and center of glass (COG) U-factor of 0.42 System U-factor is equal to 0.53 Btu/hr • ft2 • °F



ding and safety codes governing the design and use of Kawneer n as glazed entrance, window, and curtain wall products, vary widely not control the selection of product configurations, operating

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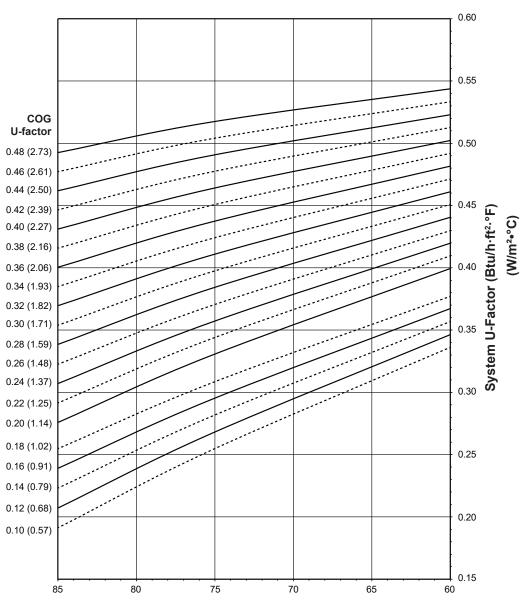
# FIXED OVER PROJECT-OUT AWNING (BEVELED)

#### Note:

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

THERMAL CHARTS

## System U-factor vs Percent of Glass Area



Percent of Glass Area = Vision Area/Total Area
Daylight Opening / Projected Area

# Notes for System U-factor, SHGC and VT charts:

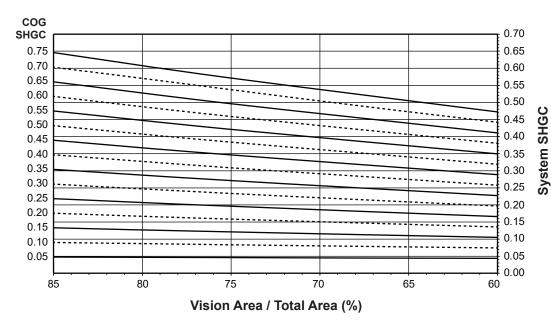
For glass values that are not listed, linear interpolation is permitted. Glass properties are based on center of glass values and are obtained from your glass supplier.



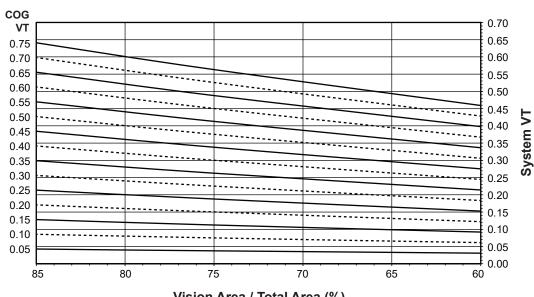
THERMAL CHARTS

# FIXED OVER PROJECT-OUT AWNING (BEVELED)

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



# System Visible Transmittance (VT) vs Percent of Vision Area



Vision Area / Total Area (%)



THERMAL PERFORMANCE MATRIX (NFRC SIZE)

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

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

Thermal transmittance (BTO/III + It + F)	
Glass U-Factor <sup>3</sup>	Overall U-Factor 4
0.48	0.52
0.46	0.50
0.44	0.49
0.42	0.48
0.40	0.46
0.38	0.45
0.36	0.44
0.34	0.42
0.32	0.41
0.30	0.40
0.28	0.38
0.26	0.37
0.24	0.36
0.22	0.34
0.20	0.33
0.18	0.31
0.16	0.29
0.14	0.28
0.12	0.27
0.10	0.25

# FIXED OVER PROJECT-OUT AWNING (BEVELED) (WARM EDGE SPACER)

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 1,200 mm wide by 1,500 mm high (47-1/4" by 59-1/16").

### SHGC Matrix <sup>2</sup>

Glass SHGC <sup>3</sup>	Overall SHGC <sup>4</sup>
0.75	0.57
0.70	0.54
0.65	0.50
0.60	0.46
0.55	0.42
0.50	0.39
0.45	0.35
0.40	0.31
0.35	0.27
0.30	0.23
0.25	0.20
0.20	0.16
0.15	0.12
0.10	0.08
0.05	0.05

# Visible Transmittance 2

VISIBLE HAIISHIILLANCE	
Glass VT <sup>3</sup>	Overall VT 4
0.75	0.57
0.70	0.53
0.65	0.49
0.60	0.45
0.55	0.41
0.50	0.38
0.45	0.34
0.40	0.30
0.35	0.26
0.30	0.23
0.25	0.19
0.20	0.15
0.15	0.11
0.10	0.08
0.05	0.04



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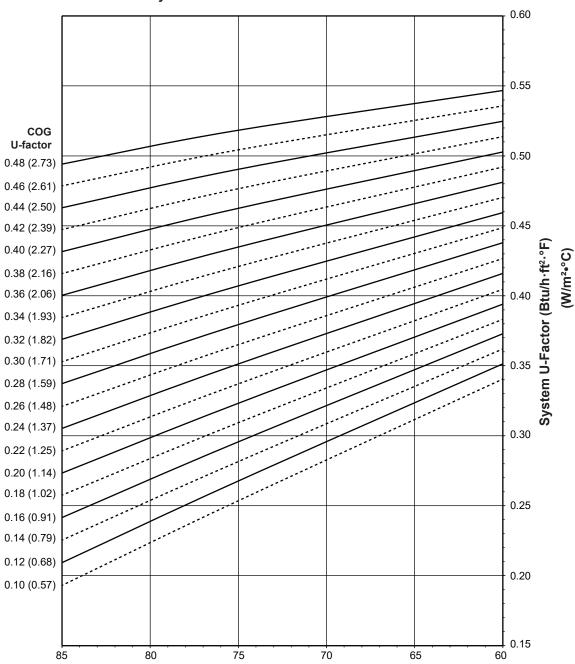
THERMAL CHARTS EC 97911-347

# FIXED OVER PROJECT-OUT AWNING (NON-BEVELED)

#### Note:

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

# System U-factor vs Percent of Glass Area



Percent of Glass Area = Vision Area/Total Area **Daylight Opening / Projected Area** 

### Notes for System U-factor, SHGC and VT charts:

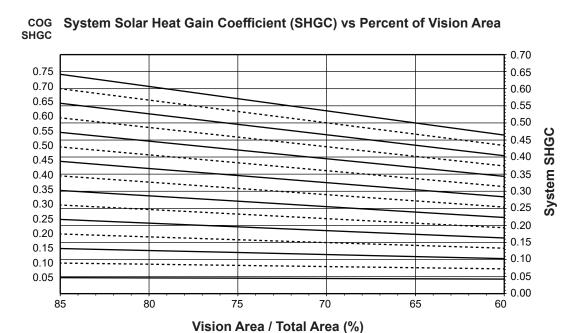
For glass values that are not listed, linear interpolation is permitted. Glass properties are based on center of glass values and are obtained from your glass supplier.



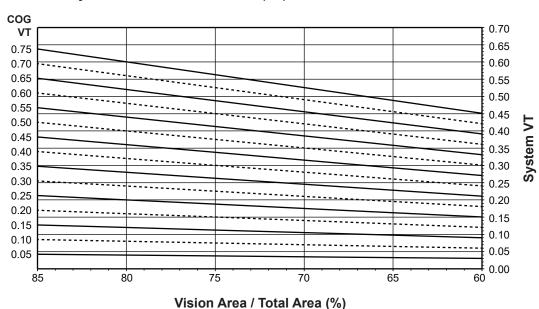
THERMAL CHARTS

EC 97911-347

# FIXED OVER PROJECT-OUT AWNING (NON-BEVELED)



# System Visible Transmittance (VT) vs Percent of Vision Area



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THERMAL PERFORMANCE MATRIX (NFRC SIZE)

EC 97911-347

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

Glass U-Factor <sup>3</sup>	Overall U-Factor 4
0.48	0.52
0.46	0.50
0.44	0.49
0.42	0.48
0.40	0.46
0.38	0.45
0.36	0.43
0.34	0.42
0.32	0.41
0.30	0.39
0.28	0.38
0.26	0.36
0.24	0.35
0.22	0.34
0.20	0.32
0.18	0.31
0.16	0.29
0.14	0.28
0.12	0.27
0.10	0.25

# FIXED OVER PROJECT-OUT AWNING (NON-BEVELED) (WARM EDGE SPACER)

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 1,200 mm wide by 1,500 mm high (47-1/4" by 59-1/16").

### SHGC Matrix <sup>2</sup>

Glass SHGC <sup>3</sup>	Overall SHGC <sup>4</sup>
0.75	0.57
0.70	0.54
0.65	0.50
0.60	0.46
0.55	0.42
0.50	0.38
0.45	0.35
0.40	0.31
0.35	0.27
0.30	0.23
0.25	0.20
0.20	0.16
0.15	0.12
0.10	0.08
0.05	0.05
-	•

#### Visible Transmittance 2

VISIDIE ITALISIIIILLALICE	
Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
0.75	0.57
0.70	0.53
0.65	0.49
0.60	0.45
0.55	0.41
0.50	0.38
0.45	0.34
0.40	0.30
0.35	0.26
0.30	0.23
0.25	0.19
0.20	0.15
0.15	0.11
0.10	0.08
0.05	0.04



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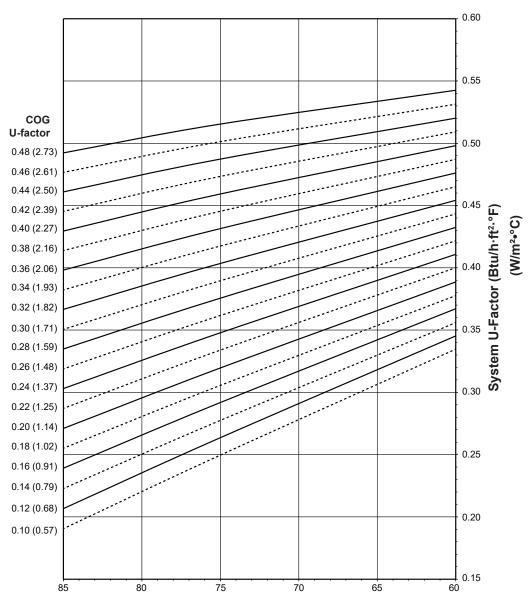
THERMAL CHARTS

#### Note:

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

#### System U-factor vs Percent of Glass Area

FIXED OVER PROJECT-IN AWNING (BEVELED)



Percent of Glass Area = Vision Area/Total Area
Daylight Opening / Projected Area

# Notes for System U-factor, SHGC and VT charts:

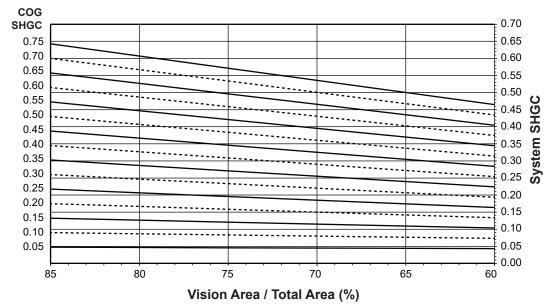
For glass values that are not listed, linear interpolation is permitted.

Glass properties are based on center of glass values and are obtained from your glass supplier.

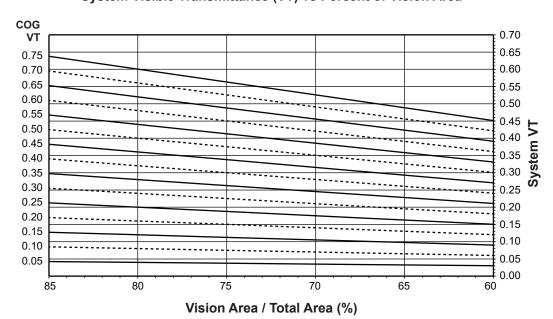


# FIXED OVER PROJECT-IN AWNING (BEVELED)

# 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 PERFORMANCE MATRIX (NFRC SIZE)

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

Theimai mansimilance (DTO/III TIL TE)	
Glass U-Factor <sup>3</sup>	Overall U-Factor 4
0.48	0.51
0.46	0.50
0.44	0.49
0.42	0.47
0.40	0.46
0.38	0.44
0.36	0.43
0.34	0.42
0.32	0.40
0.30	0.39
0.28	0.37
0.26	0.36
0.24	0.35
0.22	0.33
0.20	0.32
0.18	0.30
0.16	0.29
0.14	0.28
0.12	0.26
0.10	0.25

# **FIXED OVER PROJECT-IN AWNING** (BEVELED) (WARM EDGE SPACER)

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 1,200 mm wide by 1,500 mm high (47-1/4" by 59-1/16").

# SHGC Matrix <sup>2</sup>

Glass SHGC <sup>3</sup>	Overall SHGC <sup>4</sup>
0.75	0.57
0.70	0.54
0.65	0.50
0.60	0.46
0.55	0.42
0.50	0.38
0.45	0.35
0.40	0.31
0.35	0.27
0.30	0.23
0.25	0.20
0.20	0.16
0.15	0.12
0.10	0.08
0.05	0.05

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

Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
0.75	0.57
0.70	0.53
0.65	0.49
0.60	0.45
0.55	0.41
0.50	0.38
0.45	0.34
0.40	0.30
0.35	0.26
0.30	0.23
0.25	0.19
0.20	0.15
0.15	0.11
0.10	0.08
0.05	0.04



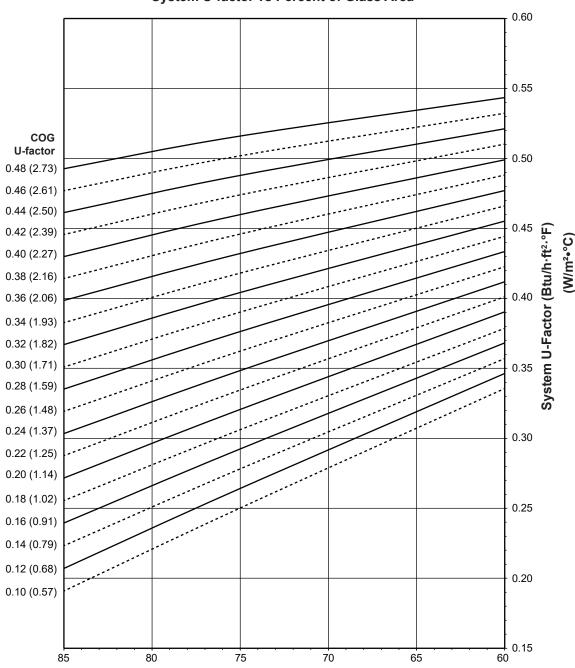
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# FIXED OVER PROJECT-IN AWNING (NON-BEVELED)

# Note:

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

# System U-factor vs Percent of Glass Area



Percent of Glass Area = Vision Area/Total Area
Daylight Opening / Projected Area

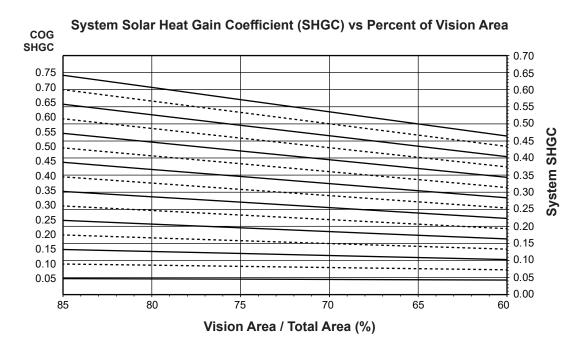
# Notes for System U-factor, SHGC and VT charts:



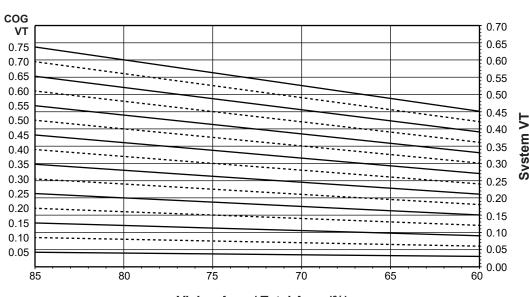
THERMAL CHARTS

EC 97911-347

# FIXED OVER PROJECT-IN AWNING (NON-BEVELED)



# System Visible Transmittance (VT) 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 wir Kawneer does not control the selection of product configurations, operating

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

# OptiQ® Offset Fixed Projected Window

EC 97911-347

THERMAL PERFORMANCE MATRIX (NFRC SIZE)

s and building and safety codes governing the design and use of Kawneer fucts, such as glazed entrance, window, and curtain wall products, vary widd meer does not control the selection of product configurations, operating ware, or clazing materials, and assumes no responsibility therefor.

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

Glass U-Factor <sup>3</sup>	Overall U-Factor <sup>4</sup>
0.48	0.52
0.46	0.50
0.44	0.49
0.42	0.47
0.40	0.46
0.38	0.45
0.36	0.43
0.34	0.42
0.32	0.40
0.30	0.39
0.28	0.38
0.26	0.36
0.24	0.35
0.22	0.33
0.20	0.32
0.18	0.30
0.16	0.29
0.14	0.28
0.12	0.26
0.10	0.25

# FIXED OVER PROJECT-IN AWNING (NON-BEVELED) (WARM EDGE SPACER)

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

- 1. U-Factors are determined in accordance with NFRC 100.
- 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 1,200 mm wide by 1,500 mm high (47-1/4" by 59-1/16").

# SHGC Matrix <sup>2</sup>

Glass SHGC <sup>3</sup>	Overall SHGC <sup>4</sup>
0.75	0.57
0.70	0.54
0.65	0.50
0.60	0.46
0.55	0.42
0.50	0.38
0.45	0.35
0.40	0.31
0.35	0.27
0.30	0.23
0.25	0.20
0.20	0.16
0.15	0.12
0.10	0.08
0.05	0.05

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

Visible Transmittance	
Glass VT <sup>3</sup>	Overall VT 4
0.75	0.57
0.70	0.53
0.65	0.49
0.60	0.45
0.55	0.41
0.50	0.38
0.45	0.34
0.40	0.30
0.35	0.26
0.30	0.23
0.25	0.19
0.20	0.15
0.15	0.11
0.10	0.08
0.05	0.04



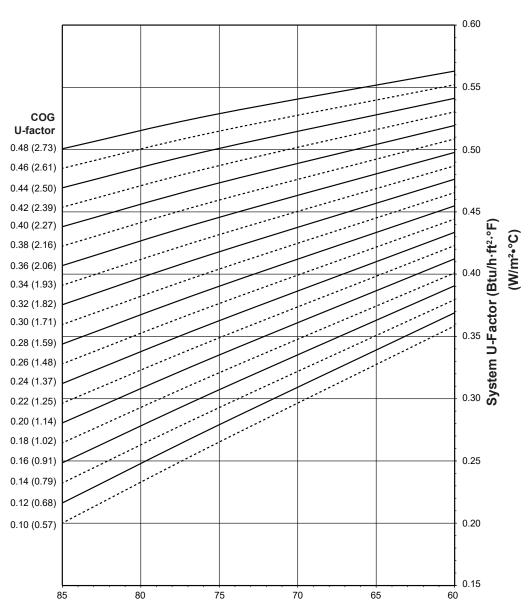
# FIXED OVER PROJECT-OUT REPLICA (BEVELED)

# Note:

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

THERMAL CHARTS

# System U-factor vs Percent of Glass Area



Percent of Glass Area = Vision Area/Total Area
Daylight Opening / Projected Area

Notes for System U-factor, SHGC and VT charts:

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

Glass properties are based on center of glass values and are obtained from your glass supplier.



Laws and building and safety codes governing the design and use of Kawn products, such as glazed entrance, window, and curtain wall products, vary Kawneer does not control the selection of product configurations, operating

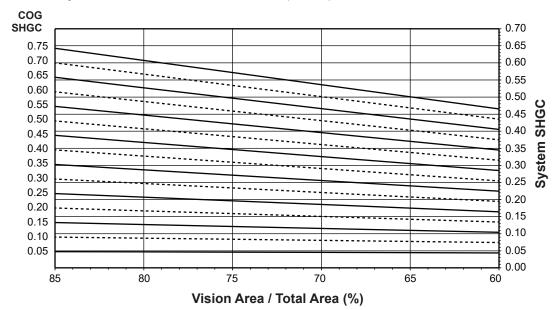
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

THERMAL CHARTS

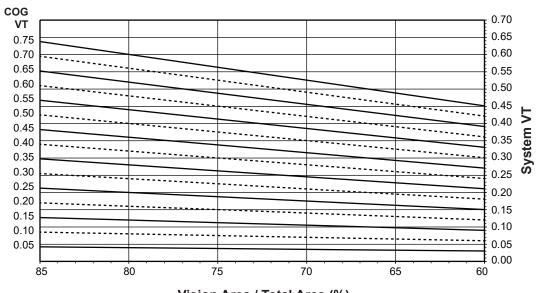
EC 97911-347

# FIXED OVER PROJECT-OUT REPLICA (BEVELED)

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



# System Visible Transmittance (VT) vs Percent of Vision Area



Vision Area / Total Area (%)



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

Glass U-Factor <sup>3</sup>	Overall U-Factor <sup>4</sup>
0.48	0.53
0.46	0.51
0.44	0.50
0.42	0.49
0.40	0.47
0.38	0.46
0.36	0.44
0.34	0.43
0.32	0.42
0.30	0.40
0.28	0.39
0.26	0.37
0.24	0.36
0.22	0.35
0.20	0.33
0.18	0.32
0.16	0.31
0.14	0.29
0.12	0.28
0.10	0.26

# FIXED OVER PROJECT-OUT REPLICA (BEVELED) (WARM EDGE SPACER)

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

- 1. U-Factors are determined in accordance with NFRC 100.
- 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 1,200 mm wide by 1,500 mm high (47-1/4" by 59-1/16").

# SHGC Matrix <sup>2</sup>

Glass SHGC <sup>3</sup>	Overall SHGC <sup>4</sup>
0.75	0.57
0.70	0.54
0.65	0.50
0.60	0.46
0.55	0.42
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	0.05

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

VISIBLE HALISHIILLANCE	
Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
0.75	0.57
0.70	0.53
0.65	0.49
0.60	0.45
0.55	0.41
0.50	0.38
0.45	0.34
0.40	0.30
0.35	0.26
0.30	0.23
0.25	0.19
0.20	0.15
0.15	0.11
0.10	0.08
0.05	0.04

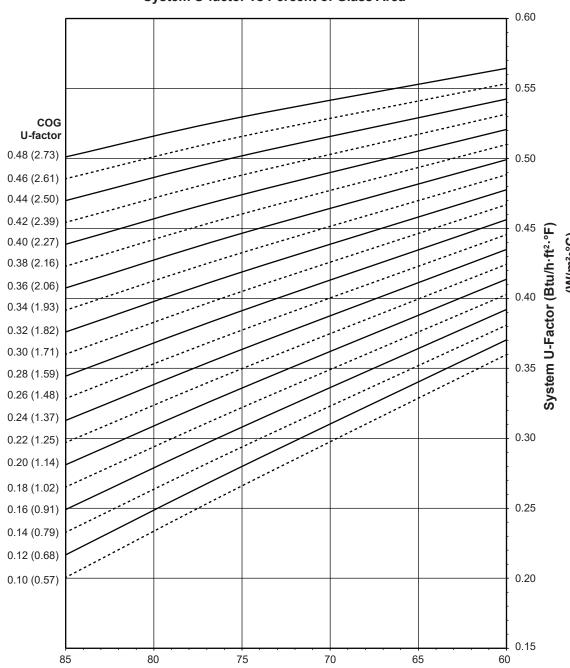


# FIXED OVER PROJECT-OUT REPLICA (NON-BEVELED)

# Note:

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

# System U-factor vs Percent of Glass Area

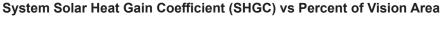


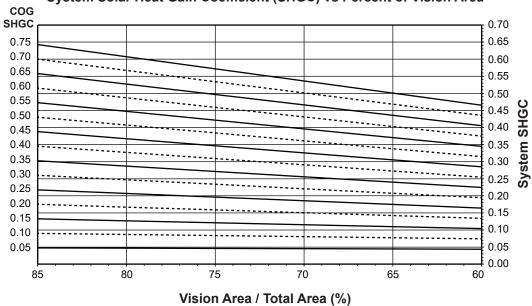
Percent of Glass Area = Vision Area/Total Area
Daylight Opening / Projected Area

# Notes for System U-factor, SHGC and VT charts:

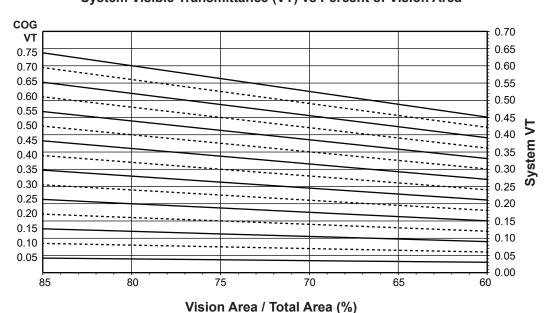


# FIXED OVER PROJECT-OUT REPLICA (NON-BEVELED)





# System Visible Transmittance (VT) vs Percent of Vision Area



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

THERMAL PERFORMANCE MATRIX (NFRC SIZE)

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

Glass U-Factor <sup>3</sup>	Overall U-Factor 4
0.48	0.53
0.46	0.51
0.44	0.50
0.42	0.49
0.40	0.47
0.38	0.46
0.36	0.45
0.34	0.43
0.32	0.42
0.30	0.40
0.28	0.39
0.26	0.38
0.24	0.36
0.22	0.35
0.20	0.33
0.18	0.32
0.16	0.31
0.14	0.29
0.12	0.28
0.10	0.26

# FIXED OVER PROJECT-OUT REPLICA (NON-BEVELED) (WARM EDGE SPACE)

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 1,200 mm wide by 1,500 mm high (47-1/4" by 59-1/16").

# SHGC Matrix <sup>2</sup>

Glass SHGC <sup>3</sup>	Overall SHGC <sup>4</sup>
0.75	0.57
0.70	0.54
0.65	0.50
0.60	0.46
0.55	0.42
0.50	0.39
0.45	0.35
0.40	0.31
0.35	0.27
0.30	0.23
0.25	0.20
0.20	0.16
0.15	0.12
0.10	0.08
0.05	0.05

# Visible Transmittance 2

VISIBLE HANSIIIILLANCE	
Glass VT <sup>3</sup>	Overall VT 4
0.75	0.57
0.70	0.53
0.65	0.49
0.60	0.45
0.55	0.41
0.50	0.38
0.45	0.34
0.40	0.30
0.35	0.26
0.30	0.23
0.25	0.19
0.20	0.15
0.15	0.11
0.10	0.08
0.05	0.04



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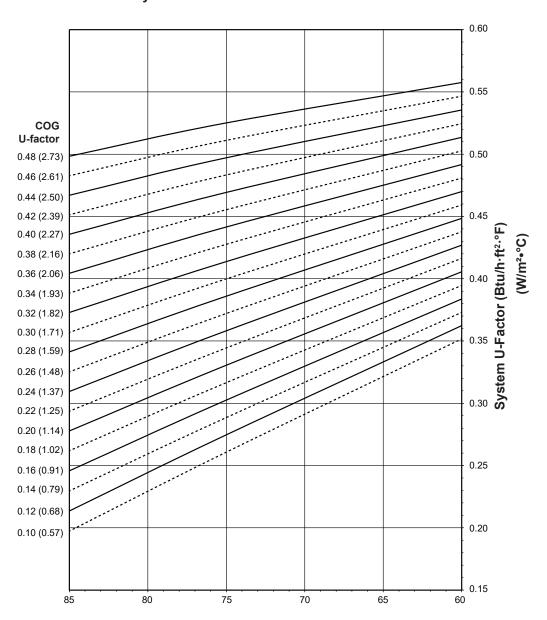
# THERMAL CHARTS

# FIXED OVER PROJECT-IN REPLICA (BEVELED)

## Note:

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

# System U-factor vs Percent of Glass Area



Percent of Glass Area = Vision Area/Total Area **Daylight Opening / Projected Area** 

# Notes for System U-factor, SHGC and VT charts:



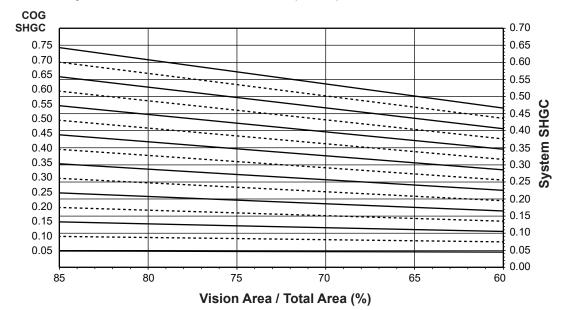
EC 97911-347

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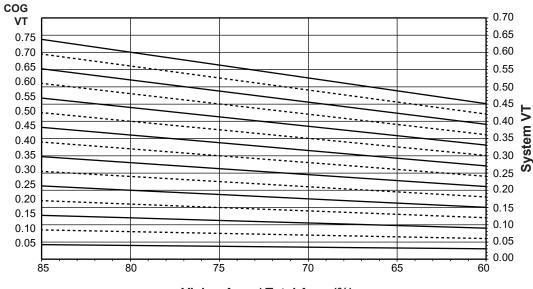
THERMAL CHARTS

# FIXED OVER PROJECT-IN REPLICA (BEVELED)

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



# System Visible Transmittance (VT) vs Percent of Vision Area



Vision Area / Total Area (%)



OptiQ® Offset Fixed Projected Window

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

Glass U-Factor <sup>3</sup>	Overall U-Factor <sup>4</sup>
0.48	0.52
0.46	0.51
0.44	0.50
0.42	0.48
0.40	0.47
0.38	0.45
0.36	0.44
0.34	0.43
0.32	0.41
0.30	0.40
0.28	0.38
0.26	0.37
0.24	0.36
0.22	0.34
0.20	0.33
0.18	0.31
0.16	0.30
0.14	0.29
0.12	0.27
0.10	0.26

# **FIXED OVER PROJECT-IN REPLICA** (BEVELED) (WARM EDGE SPACER)

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 1,200 mm wide by 1,500 mm high (47-1/4" by 59-1/16").

# SHGC Matrix <sup>2</sup>

Glass SHGC <sup>3</sup>	Overall SHGC <sup>4</sup>
0.75	0.57
0.70	0.54
0.65	0.50
0.60	0.46
0.55	0.42
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	0.05

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

Glass VT <sup>3</sup>	Overall VT 4
0.75	0.57
0.70	0.53
0.65	0.49
0.60	0.45
0.55	0.41
0.50	0.38
0.45	0.34
0.40	0.30
0.35	0.26
0.30	0.23
0.25	0.19
0.20	0.15
0.15	0.11
0.10	0.08
0.05	0.04



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

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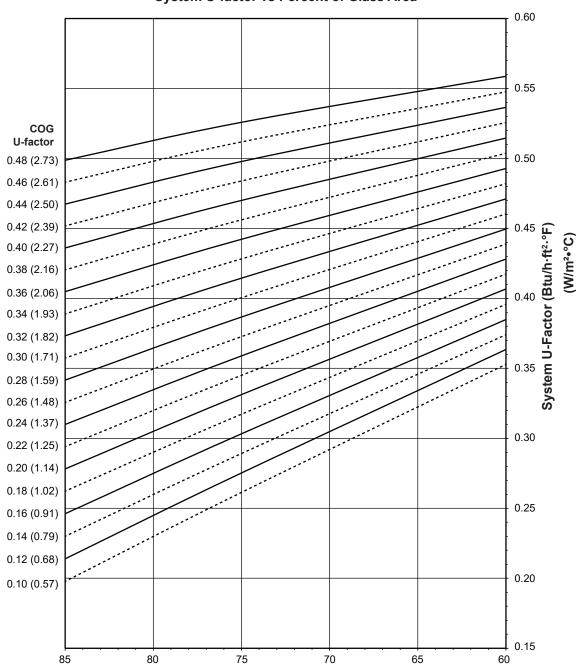
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# FIXED OVER PROJECT-IN REPLICA (NON-BEVELED)

# Note:

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

# System U-factor vs Percent of Glass Area



Percent of Glass Area = Vision Area/Total Area
Daylight Opening / Projected Area

# Notes for System U-factor, SHGC and VT charts:

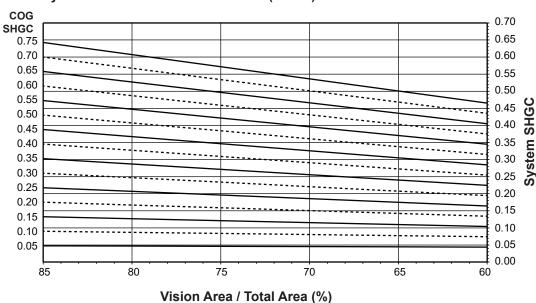


THERMAL CHARTS

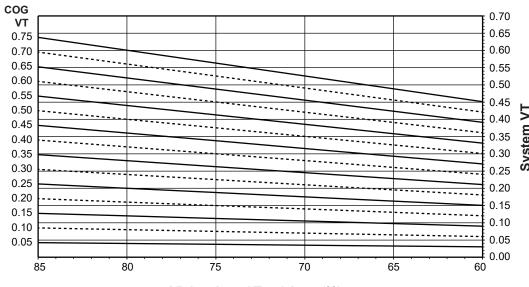
EC 97911-347

# FIXED OVER PROJECT-IN REPLICA (NON-BEVELED)

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



# System Visible Transmittance (VT) vs Percent of Vision Area



Vision Area / Total Area (%)



Laws and building and safety codes governing the design and use of Kawnee products, such as glazed entrance, window, and curtain wall products, vary w Kawneer does not control the selection of product configurations, operating

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

THERMAL PERFORMANCE MATRIX (NFRC SIZE)

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# EC 97911-347

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

Glass U-Factor <sup>3</sup>	Overall U-Factor 4
0.48	0.53
0.46	0.51
0.44	0.50
0.42	0.48
0.40	0.47
0.38	0.46
0.36	0.44
0.34	0.43
0.32	0.41
0.30	0.40
0.28	0.39
0.26	0.37
0.24	0.36
0.22	0.34
0.20	0.33
0.18	0.32
0.16	0.30
0.14	0.29
0.12	0.27
0.10	0.26

# FIXED OVER PROJECT-IN REPLICA (NON-BEVELED) (WARM EDGE SPACER)

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

- 1. U-Factors are determined in accordance with NFRC 100.
- 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 1,200 mm wide by 1,500 mm high (47-1/4" by 59-1/16").

# SHGC Matrix <sup>2</sup>

Glass SHGC <sup>3</sup>	Overall SHGC <sup>4</sup>
0.75	0.57
0.70	0.54
0.65	0.50
0.60	0.46
0.55	0.42
0.50	0.39
0.45	0.35
0.40	0.31
0.35	0.27
0.30	0.23
0.25	0.20
0.20	0.16
0.15	0.12
0.10	0.08
0.05	0.05

# Visible Transmittance 2

VISIDIE ITALISIIIILLAIICE		
Glass VT <sup>3</sup>	Overall VT <sup>4</sup>	
0.75	0.57	
0.70	0.53	
0.65	0.49	
0.60	0.45	
0.55	0.41	
0.50	0.38	
0.45	0.34	
0.40	0.30	
0.35	0.26	
0.30	0.23	
0.25	0.19	
0.20	0.15	
0.15	0.11	
0.10	0.08	
0.05	0.04	



