EC 97911-255

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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.

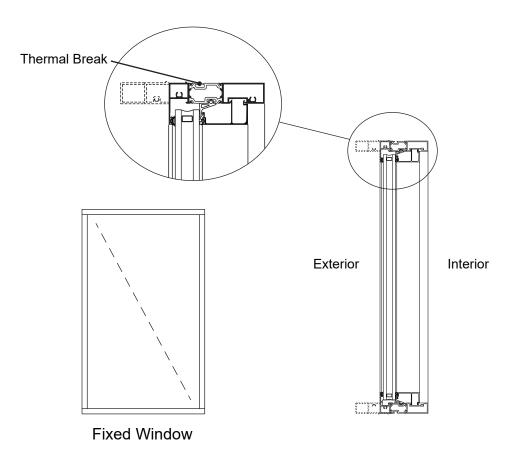
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EC 97911-255 FIXED WINDOW

Features

- · Architectural Grade Commercial Window
- · Tested to US and Canadian Standards
- Polyamide Thermal Break
- Tubular Profiles
- · Optional "Top Hat" Accent Feature
- · Rain Screen and Pressure Equalized
- Accommodates Air and / or Vapor barrier
- Accommodates Projected and Casement Vents
- · Field Dry Glazed
 - 1" dual glazing (RSPE with gasket)
 - 1-3/4" triple glazing (RSPE with gasket or silicone heel bead)
- Interior Applied Glazing Bead
- Architectural Anodized Finishes and Applied Coatings
- Interior and Exterior Dual Finish Options
- Two Year Manufacturer's Warranty



For specific product applications, consult your Kawneer representative.



AA®6400/6500/6600 Thermal Window

JULY, 2021

FIXED WINDOW EC 97911-255

CLASS and GRADE	Architectural Window Grade AW-PG70-FW
TESTING STANDARD AAMA / WDMA / CSA / 101 / I.S.2 / A440 (NAFS)	
FRAME DEPTH	4" (AA®6400), 5" (AA®6500), or 6" (AA®6600)
TYPICAL WALL THICKNESS	.070" Nominal Frame
INFILL OPTIONS	1" or 1-3/4"
STANDARD HARDWARE	Not Applicable
OPTIONAL HARDWARE	Not Applicable
OTHER OPTIONS	Expansion Mullions

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

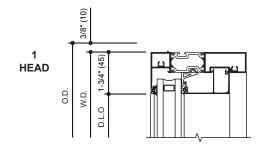
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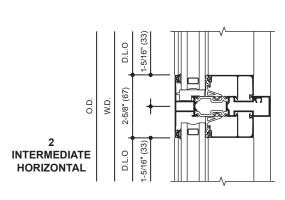
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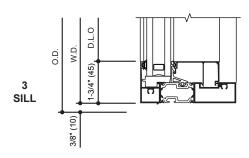
AA®6400 FIXED 4" WINDOW

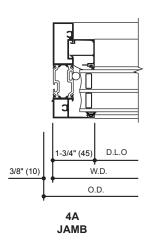
Additional information and CAD details are available at www.kawneer.com

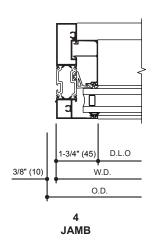


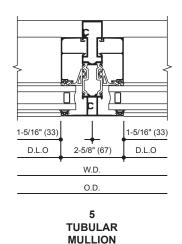


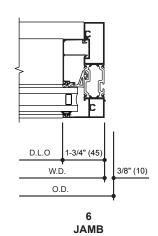
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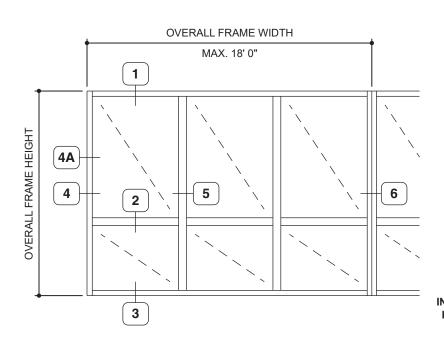
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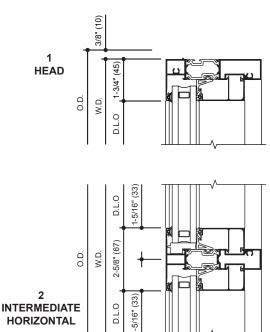
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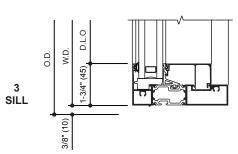
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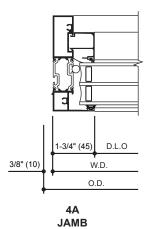
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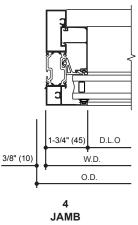


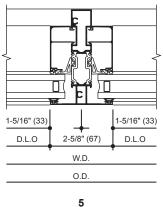


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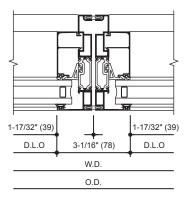












6 **MULTI-MODULAR COUPLING MULLION**

KAWNEER

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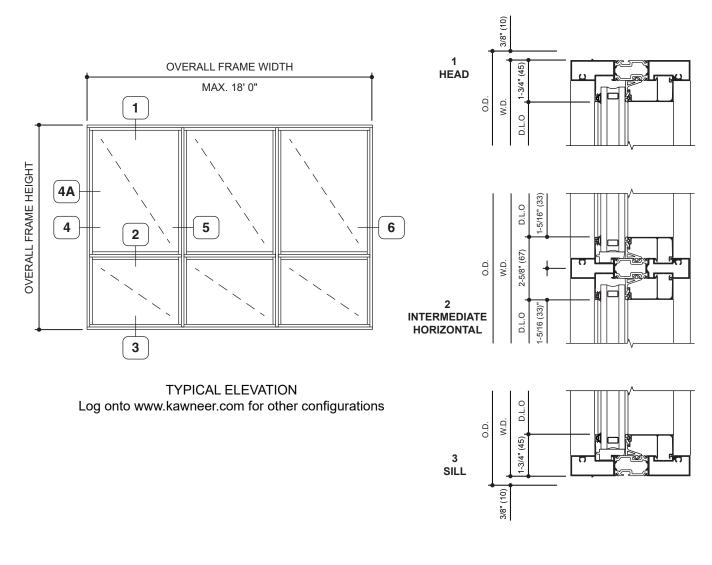
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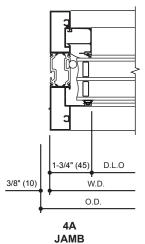
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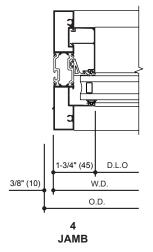
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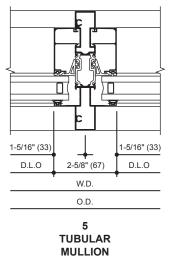
EC 97911-255 AA®6500 FIXED 5" WINDOW

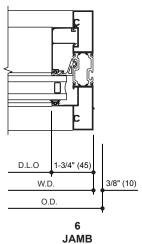
Additional information and CAD details are available at www.kawneer.com







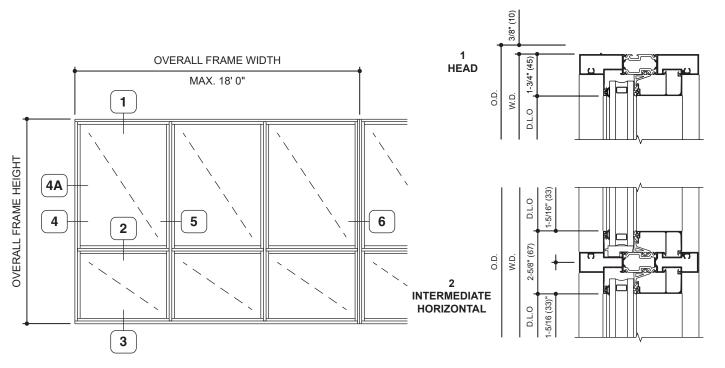




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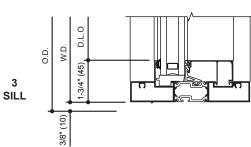
kawneer.com ADME130EN

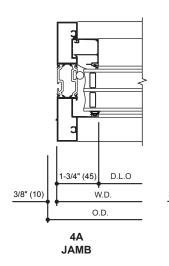
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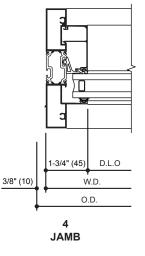


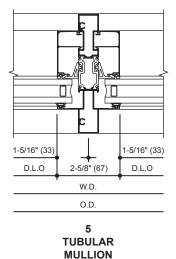
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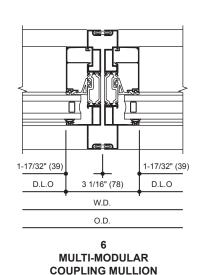
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KAWNEER

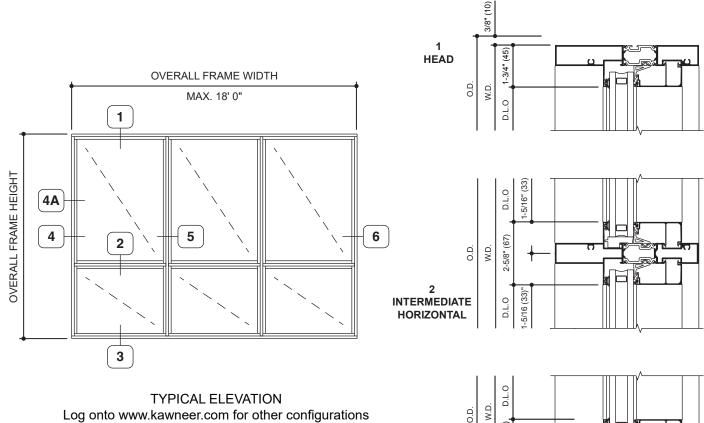
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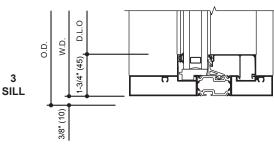
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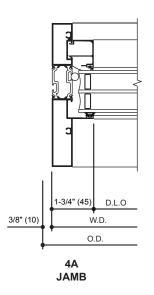
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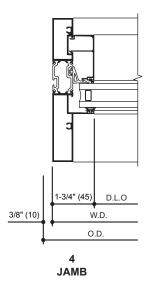
EC 97911-255 AA®6600 FIXED 6" WINDOW

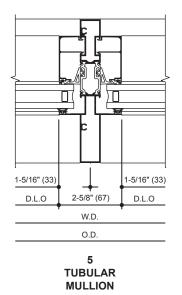
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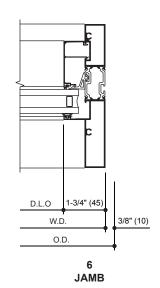












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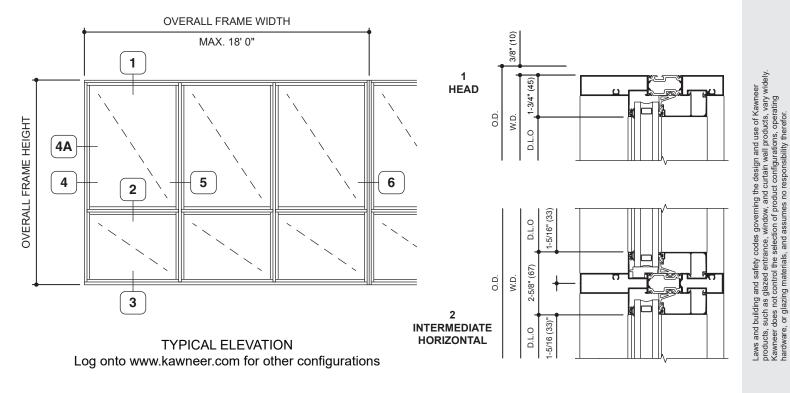
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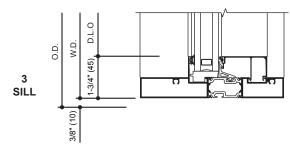
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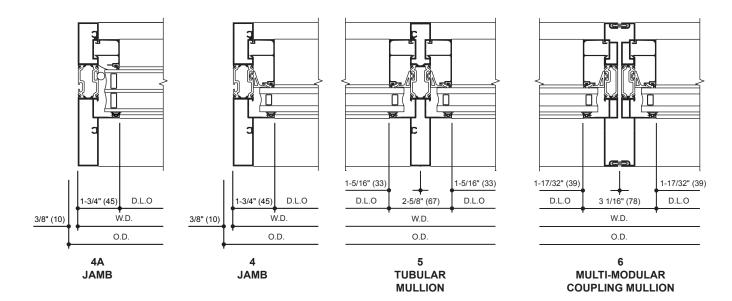
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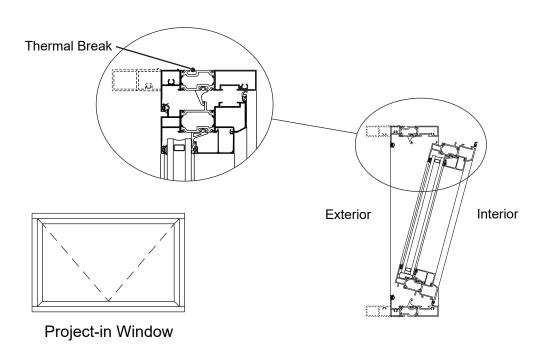


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EC 97911-255 PROJECT-IN WINDOW

Features

- · Architectural Grade Commercial Window
- · Tested to US and Canadian Standards
- Polyamide Thermal Break
- · Accentuated Tubular Profiles
- Field Dry Glazed
 - 1" dual glazing (RSPE with gasket)
 - 1-3/4" triple glazing (RSPE with silicone heel bead)
- Adjustable EURO-Groove Mounted Hardware
- Single Handle Multi-Point Locking
- Interior Applied Glazing Bead
- Architectural Anodized Finishes and Applied Coatings
- · Interior and Exterior Dual Finish Options
- Two Year Manufacturer's Warranty



For specific product applications, consult your Kawneer representative.



PROJECT-IN WINDOW

EC 97911-255

CLASS and GRADE	Architectural Window Grade AW-PG70-AP	
TESTING STANDARD	AAMA / WDMA / CSA / 101 / I.S.2 / A440 (NAFS)	
FIXED FRAMING DEPTH	4" (AA®6400), 5" (AA®6500), or 6" (AA®6600)	
VENT DEPTH	3-9/16"	
TYPICAL WALL THICKNESS	.070" Nominal Frame / .070" Nominal Vent	
TYPICAL MAX. SIZE (Sizes are for fixed frame D.L.O.) (Optional hardware may override min./max. size limitations)	60" x 36"	
TYPICAL MIN. SIZE (Sizes are for fixed frame D.L.O.) (Optional hardware may override min./max. size limitations)	18" x 22"	
INFILL OPTIONS	1" or 1-3/4"	
STANDARD HARDWARE	Stainless Steel 4-Bar Hinges Single Handle Multi-Point Locking	
OPTIONAL HARDWARE	Single Keyed Handle Multi-Point Locking Limit Stop Ferco Hardware (AA®6400 only) Single point lock capabilities Dual point lock capabilities (See application engineering for project specific review)	
OTHER OPTIONS	Insect Screens	

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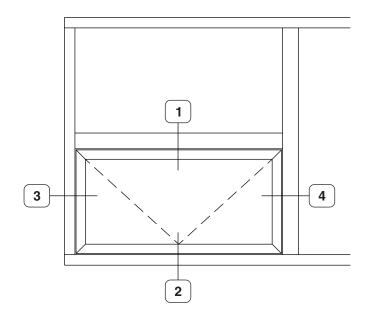


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EC 97911-255 PROJECT-IN WINDOW

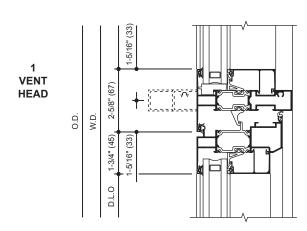
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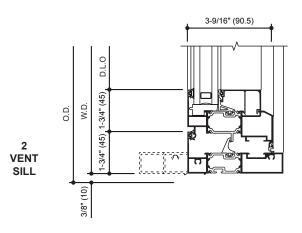


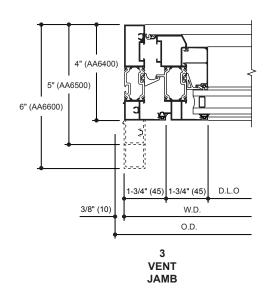
TYPICAL ELEVATION

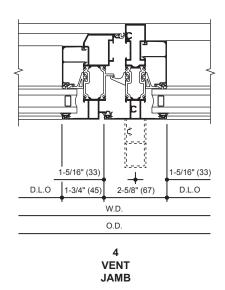
Log onto www.kawneer.com for other configurations

AA®6400 details shown, AA®6500 and AA®6600 shown dotted in.



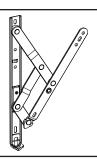








kawneer.com ADME130EN



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.

MULTI-POINT LOCKING



Single handle multi-point locking is standard providing any number of concealed EURO-Groove mounted locking points around the ventilator perimeter. Stylish handles are available in a silver painted finish.

MULTI-POINT LOCKING - KEYED



Single keyed handle multi-point locking providing any number of concealed EURO-Groove mounted locking points around the ventilator perimeter. Stylish handles are available in a silver painted finish.

FERCO HARDWARE



Ferco openers face applied for stick built or curtain wall framing.

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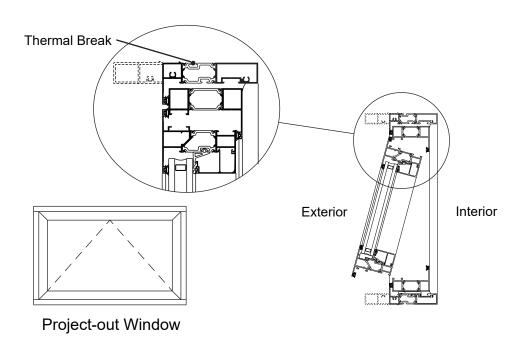
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EC 97911-255 PROJECT-OUT WINDOW

Features

- · Architectural Grade Commercial Window
- · Tested to US and Canadian Standards
- Polyamide Thermal Break
- Accentuated Tubular Profiles
- Field Dry Glazed
 - 1" dual glazing (RSPE with gasket)
 - 1-3/4" triple glazing (RSPE with silicone heel bead)
- Adjustable EURO-Groove Mounted Hardware
- Dual Handle Multi-Point Locking
- Interior Applied Glazing Bead
- Architectural Anodized Finishes and Applied Coatings
- · Interior and Exterior Dual Finish Options
- Two Year Manufacturer's Warranty
- · Compatible with Curtain Wall Systems



For specific product applications, consult your Kawneer representative.



PROJECT-OUT WINDOW

EC 97911-255

CLASS and GRADE	Architectural Window Grade AW-PG70-AP		
TESTING STANDARD	AAMA / WDMA / CSA / 101 / I.S.2 / A440 (NAFS)		
FIXED FRAMING DEPTH	4" (AA®6400), 5" (AA®6500), or 6" (AA®6600)		
VENT / VENT FRAME DEPTH	3-3/8"		
TYPICAL WALL THICKNESS	.070" Nominal Frame / .070" Nominal Vent		
TYPICAL MAX. SIZE (Sizes are for fixed frame D.L.O.) 60" x 42" 4-Bar Hinges / Multi-Point Locking / Pivot Shoe Rot 72" x 48" 4-Bar Hinges / Cam Handles*			
TYPICAL MIN. SIZE (Sizes are for fixed frame D.L.O.)	28" x 20"		
INFILL OPTIONS	1" or 1-3/4"		
STANDARD HARDWARE	Stainless Steel 4-Bar Hinges Dual Handle Multi-Point Locking Pivot Shoe Roto		
OPTIONAL HARDWARE	Dual Handle Multi-Point Locking - Keyed Cam Handles* Access Control Locks* Pole and Hanger		
OTHER OPTIONS	Insect Screens (*Not available with Cam Handles or Access Control Locks)		

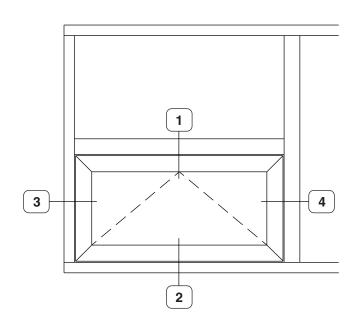
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EC 97911-255 PROJECT-OUT WINDOW

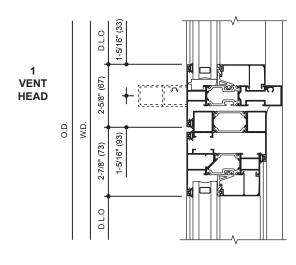
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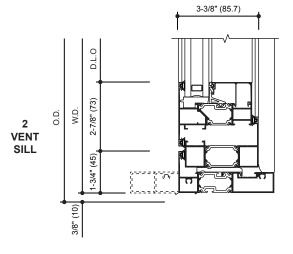


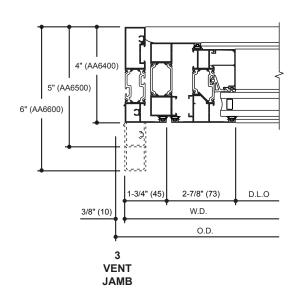
TYPICAL ELEVATION

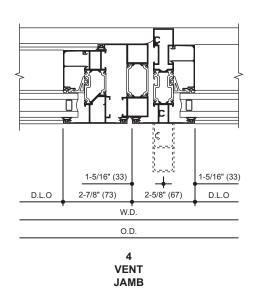
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AA®6400 details shown, AA®6500 and AA®6600 shown dotted in.







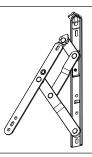




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PROJECT-OUT WINDOW EC 97911-255

STAINLESS STEEL **4 BAR HINGES**



A standard hinge for ventilators providing a 4" opening to comply with child safety requirements.

MULTI-POINT LOCKING



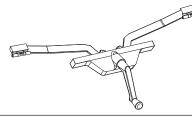
Single handle multi-point locking is standard providing any number of concealed EURO-Groove mounted locking points around the ventilator perimeter. Stylish handles are available in a silver painted finish.

MULTI-POINT LOCKING - KEYED



Single keyed handle multi-point locking providing any number of concealed EURO-Groove mounted locking points around the ventilator perimeter. Stylish handles are available in a silver painted finish.

PIVOT-SHOE ROTO-OPERATOR



Pivot shoe roto operator is located on the center line of the bottom horizontal frame. Standard finish shall be painted silver.

STANDARD CAM HANDLE



Cast white bronze cam handles are standard for the manual 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

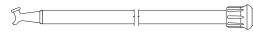


Cast white bronze pole ring is used in conjunction with locking hardware for sash pole operation of ventilators.

SASH POLE

HANGER

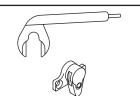
LOCK



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

FOR SASH POLE



In lieu of cam handles cast white bronze access control locks are offered for managed control of vent operations. Lock is operated with a manganese bronze removable handle.

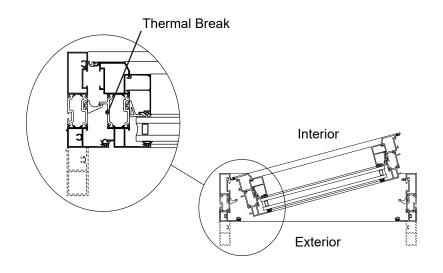


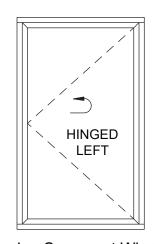
EC 97911-255

INSWING CASEMENT WINDOW

Features

- · Architectural Grade Commercial Window
- · Tested to US and Canadian Standards
- Polyamide Thermal Break
- · Accentuated Tubular Profiles
- Field Dry Glazed
 - 1" dual glazing (RSPE with gasket)
 - 1-3/4" triple glazing (RSPE with silicone heel bead)
- Adjustable EURO-Groove Mounted Hardware
- · Single Handle Multi-Point Locking
- Interior Applied Glazing Bead
- Architectural Anodized Finishes and Applied Coatings
- · Interior and Exterior Dual Finish Options
- Two Year Manufacturer's Warranty





Inswing Casement Window

For specific product applications, consult your Kawneer representative.



CLASS and GRADE

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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

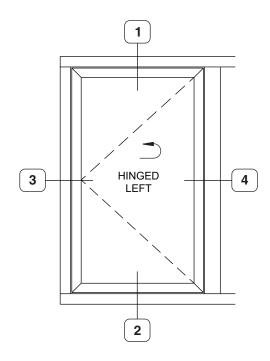
	7 Torritootarar Window Grado / W T G / G G
TESTING STANDARD	AAMA / WDMA / CSA / 101 / I.S.2 / A440 (NAFS)
FRAME DEPTH	4" (AA®6400), 5" (AA®6500), or 6" (AA®6600)
VENT DEPTH	3-9/16"
TYPICAL WALL THICKNESS	.070" Nominal Frame / .070" Nominal Vent
TYPICAL MAX. SIZE (Sizes are for fixed frame D.L.O.)	36" x 60"
TYPICAL MIN. SIZE (Sizes are for fixed frame D.L.O.)	22" x 22"
INFILL OPTIONS	1" or 1-3/4"
STANDARD HARDWARE	Stainless Steel 4-Bar Hinges Single Handle Multi-Point Locking
OPTIONAL HARDWARE	Single Keyed Handle Multi-Point Locking Limit Stop
OTHER OPTIONS	Insect Screens

Architectural Window Grade AW-PG70-C



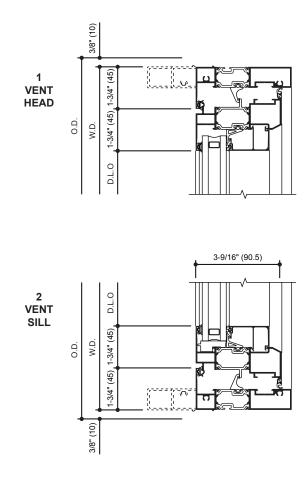
INSWING CASEMENT WINDOW

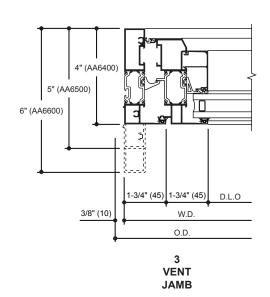
Additional information and CAD details are available at www.kawneer.com

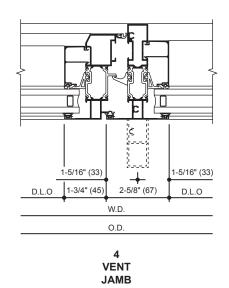


TYPICAL ELEVATION Log onto www.kawneer.com for other configurations

AA®6400 details shown, AA®6500 and AA®6600 shown dotted in.

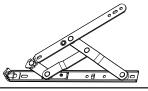








STAINLESS STEEL 4 BAR HINGES



A standard hinge for ventilators providing up to 45° of open. An optional limit stop is available to restrict hinge travel and limit vent opening.

MULTI-POINT LOCKING



Single handle multi-point locking is standard providing any number of concealed EURO-Groove mounted locking points around the ventilator perimeter. Stylish handles are available in a silver painted finish.

MULTI-POINT LOCKING - KEYED



Single keyed handle multi-point locking providing any number of concealed EURO-Groove mounted locking points around the ventilator perimeter. Stylish handles are available in a silver painted finish.

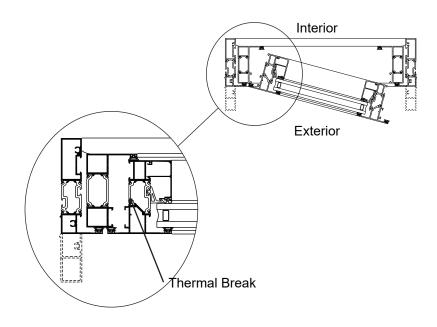


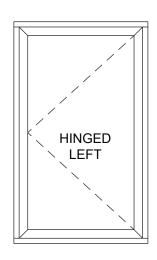
EC 97911-255

OUTSWING CASEMENT WINDOW

Features

- · Architectural Grade Commercial Window
- · Tested to US and Canadian Standards
- Polyamide Thermal Break
- Accentuated Tubular Profiles
- Field Dry Glazed
 - 1" dual glazing (RSPE with gasket)
 - 1-3/4" triple glazing (RSPE with silicone heel bead)
- · Adjustable EURO-Groove Mounted Hardware
- Single Handle Multi-Point Locking
- Interior Applied Glazing Bead
- Architectural Anodized Finishes and Applied Coatings
- · Interior and Exterior Dual Finish Options
- Two Year Manufacturer's Warranty
- Compatible with Curtain Wall Systems





Outswing Casement Window

For specific product applications, consult your Kawneer representative.



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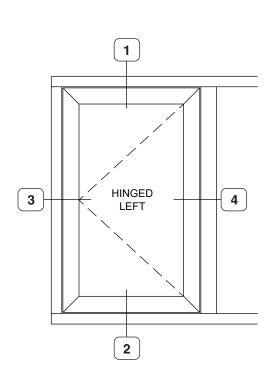
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CLASS and GRADE	Architectural Window Grade AW-PG70-C
TESTING STANDARD	AAMA / WDMA / CSA / 101 / I.S.2 / A440 (NAFS)
FIXED FRAMING DEPTH	4" (AA®6400), 5" (AA®6500), or 6" (AA®6600)
VENT / VENT FRAME DEPTH	3-3/8"
TYPICAL WALL THICKNESS	.070" Nominal Frame / .070" Nominal Vent
TYPICAL MAX. SIZE (Sizes are for fixed frame D.L.O.)	36" x 60" All Standard or Optional Hardware available 48" x 72" Concealed Hinges / Cam Handles*
TYPICAL MIN. SIZE (Sizes are for fixed frame D.L.O.)	18" x 18"
INFILL OPTIONS	1" or 1-3/4"
STANDARD HARDWARE	Concealed Hinge Single Handle Multi-Point Locking Roto Operator
OPTIONAL HARDWARE	Single Keyed Handle Multi-Point Locking Cam Handles* Access Control Locks* 4-bar Hinges Pole and Hanger
OTHER OPTIONS	Insect Screens (*Not available with Cam Handles or Access Control Locks)



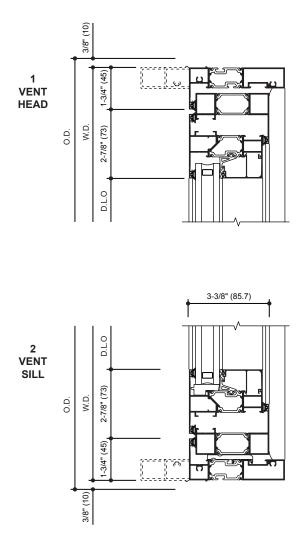
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Additional information and CAD details are available at www.kawneer.com

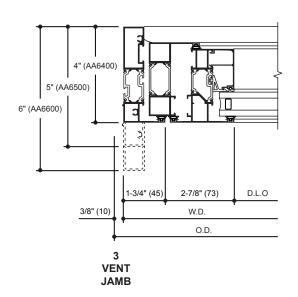


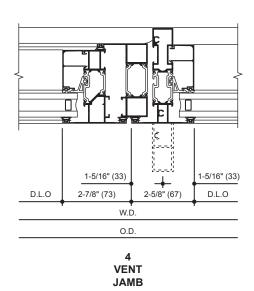
TYPICAL ELEVATION Log onto www.kawneer.com for other configurations

AA®6400 details shown, AA®6500 and AA®6600 shown dotted in.



OUTSWING CASEMENT WINDOW







AA®6400/6500/6600 Thermal Window

OUTSWING CASEMENT WINDOW

EC 97911-255

CONCEALED HINGES	A standard hinge for outswing ventilators.
MULTI-POINT LOCKING	Single handle multi-point locking is standard providing any number of concealed EURO-Groove mounted locking points around the ventilator perimeter. Stylish handles are available in a silver painted finish.
MULTI-POINT LOCKING - KEYED	Single keyed handle multi-point locking providing any number of concealed EURO-Groove mounted locking points around the ventilator perimeter. Stylish handles are available in a silver painted finish.
ROTO-OPERATOR	Roto operator is located on the bottom horizontal vent-frame. Standard finish shall be painted silver.
STANDARD CAM HANDLE	Cast white bronze cam handles are standard for the manual 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.
SASH POLE HANGER FOR 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.
ACCESS CONTROL LOCK	In lieu of cam handles cast white bronze access control locks are offered for managed control of vent operations. Lock is operated with a manganese bronze removable handle.
KEYED LIMIT ARM	Key released limit arms may be used to restrict ventilator opening when used with cam handles or access control locks.

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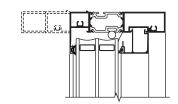
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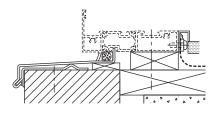
EC 97911-255 MISCELLANEOUS

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

TRIPLE GLAZED HEAD

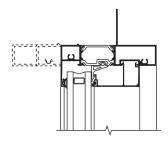


ANCHORS

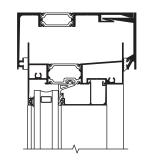


TYPICAL SILL EXTENSION

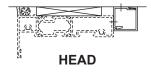
FLANGE LEG FRAME

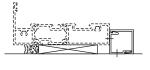


HEAD RECEPTOR (INTERIOR INSTALLED)



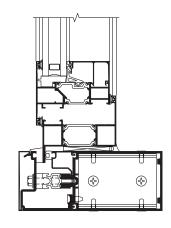
TRIM DETAILS



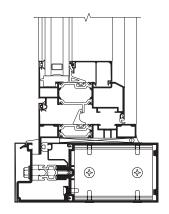


SILL

CURTAIN WALL ADAPTERS



1600UT SYSTEM®1 CURTAIN WALL (Project-Out/Outswing Casement)



1600UT SYSTEM®1 CURTAIN WALL (Project-In/Inswing Casement)



uilding and safety codes governing the design and use of Kawneer uch as glazed entrance, window, and curtain wall products, vary widely, se not control the selection of product configurations, operating by glazing malerials, and assumes no responsibility therefor.

WIND LOAD CHARTS

28

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 intermediate 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.



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MULLION HEIGHT IN METERS

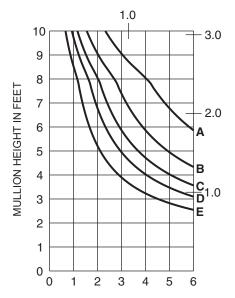
EC 97911-255

WIND LOAD CHARTS

	Allowable Stress	LRFD Ultimate
	Design Load	Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	70 PSF (3350)	117 PSF (5580)

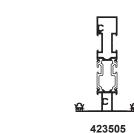






MULLION CENTERS IN FEET

UNITS WITH HORIZONTALS

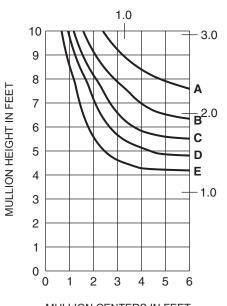


MULLION HEIGHT IN METERS

MULLION HEIGHT IN METERS

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

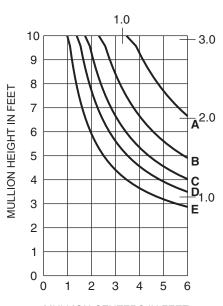
MULLION CENTERS IN METERS



MULLION CENTERS IN FEET

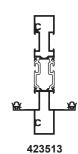
UNITS WITHOUT HORIZONTALS

MULLION CENTERS IN METERS



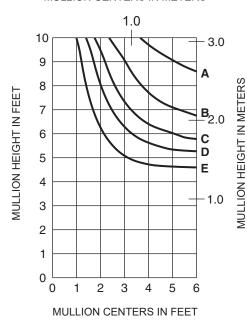
MULLION CENTERS IN FEET

UNITS WITH HORIZONTALS



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

MULLION CENTERS IN METERS



UNITS WITHOUT HORIZONTALS

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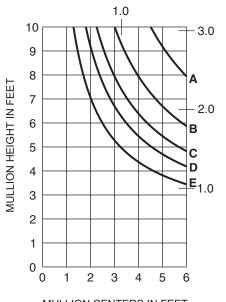
MULLION HEIGHT IN METERS

WIND LOAD CHARTS

EC 97911-255

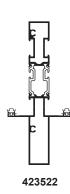
	Allowable Stress	LRFD Ultimate
	Design Load	Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E=	70 PSF (3350)	117 PSF (5580)





MULLION CENTERS IN FEET

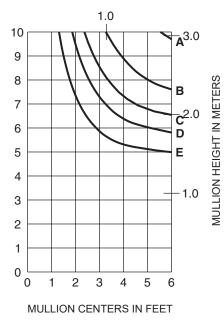
UNITS WITH HORIZONTALS



MULLION HEIGHT IN FEET

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

MULLION CENTERS IN METERS



UNITS WITHOUT HORIZONTALS

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governing the design and use of Kawneer window, and curtain wall products, vary widely

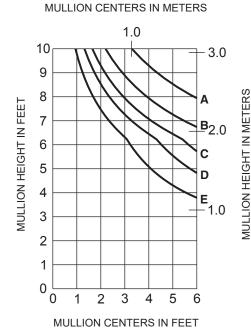
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WIND LOAD CHARTS EC 97911-255

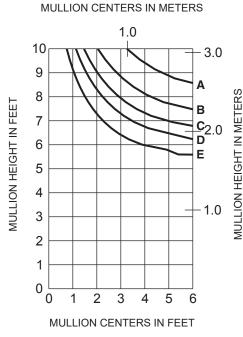
	Allowable Stress	LRFD Ultimate
	Design Load	Design Load
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WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505

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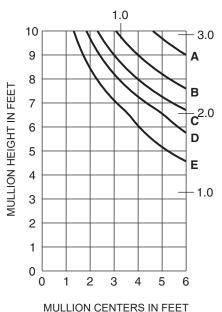


UNITS WITHOUT HORIZONTALS

MULLION CENTERS IN METERS

MULLION CENTERS IN METERS

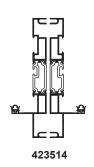
UNITS WITH HORIZONTALS



MULLION HEIGHT IN METERS

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

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⊢3.0 10 9 8 **MULLION HEIGHT IN METERS** C MULLION HEIGHT IN FEET 7 <u>D</u>2 6 5 4 3 2 1 2 3 4 5 6

MULLION CENTERS IN FEET **UNITS WITHOUT HORIZONTALS**

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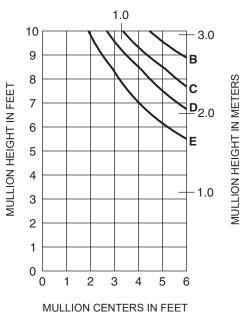
UNITS WITH HORIZONTALS

WIND LOAD CHARTS

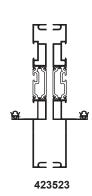
EC 97911-255

	Allowable Stress	LRFD Ultimate
	Design Load	Design Load
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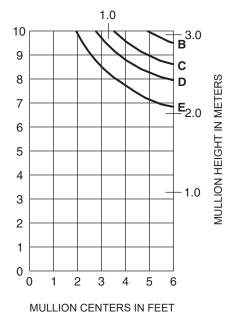


UNITS WITH HORIZONTALS



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

MULLION CENTERS IN METERS



MULLION HEIGHT IN FEET

UNITS WITHOUT HORIZONTALS

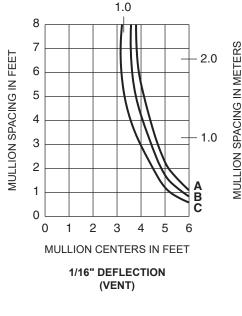
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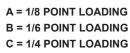
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and cutrain wall products, vary widely, Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor. EC 97911-255 **DEADLOAD CHARTS**

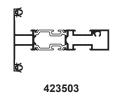
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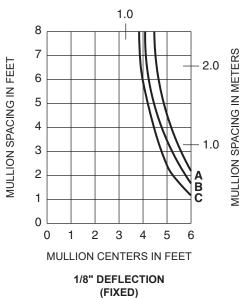


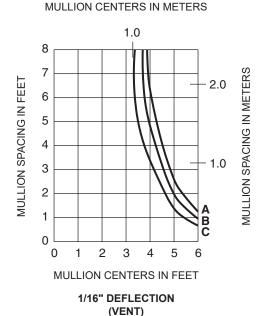
MULLION CENTERS IN METERS



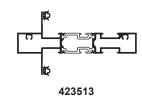


MULLION CENTERS IN METERS

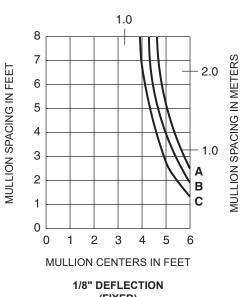




A = 1/8 POINT LOADING **B = 1/6 POINT LOADING** C = 1/4 POINT LOADING



MULLION CENTERS IN METERS

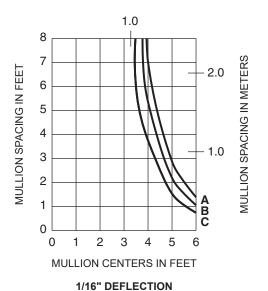


(FIXED)



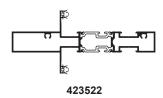
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MULLION CENTERS IN METERS

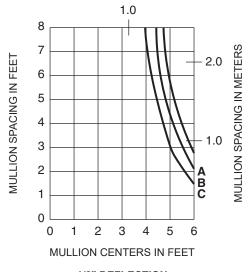


(VENT)

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



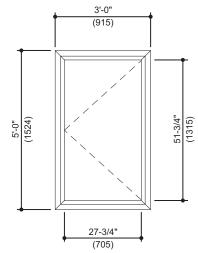
MULLION CENTERS IN METERS



1/8" DEFLECTION (FIXED)

EC 97911-255 THERMAL CHARTS

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 • ft² • °F

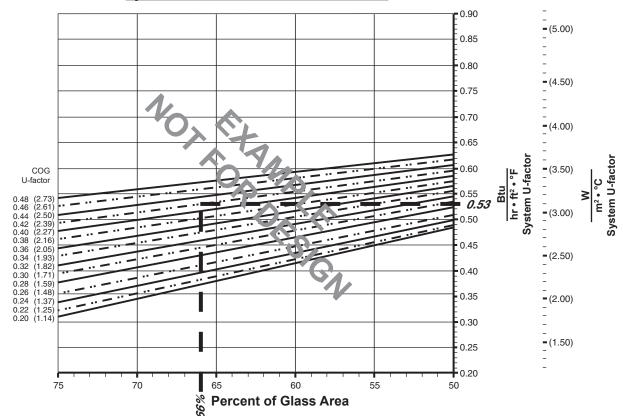
Total Daylight Opening = 27-3/4" • 51-3/4" = 9.97ft²

Total Projected Area = 3'-0" • 5'-0" = 15 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



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THERMAL CHARTS

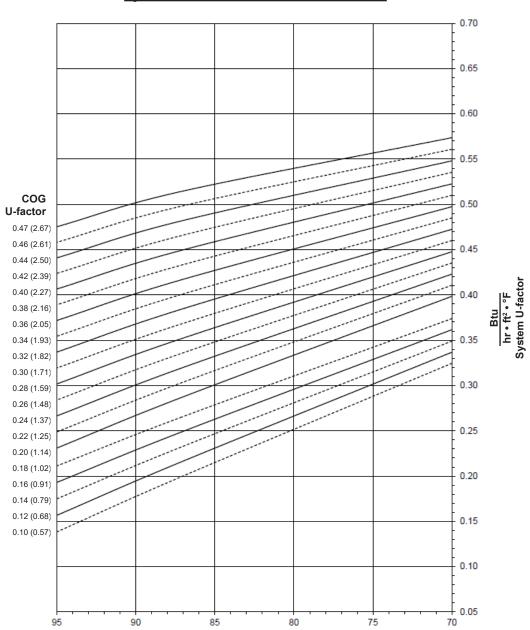
FIXED WINDOW WITH 1" GLAZING

Note:

36

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.



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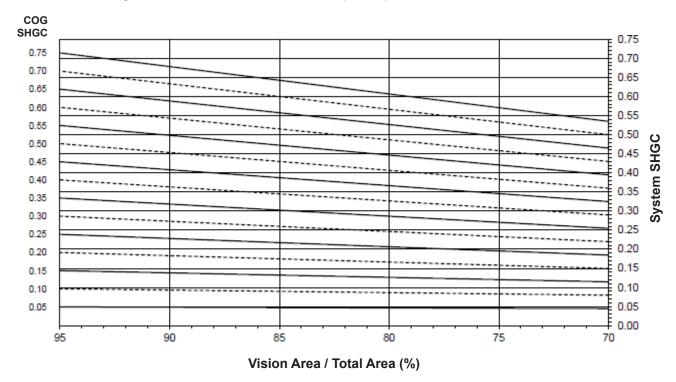
codes governing the design and use of Kawneer mere, window, and cutain wall products, vary widely, selection of product configurations, operating s, and assumes no responsibility therefor.

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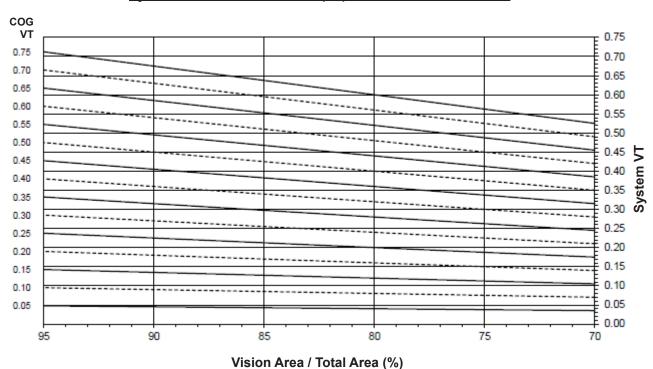
THERMAL CHARTS

FIXED WINDOW WITH 1" GLAZING

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)

AA®6400/6500/6600 Thermal Window

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

Glass U-Factor ³	Overall U-Factor 4
Glass U-Factor	Overall O-Factor
0.48	0.51
0.46	0.50
0.44	0.48
0.42	0.47
0.40	0.45
0.38	0.43
0.36	0.42
0.34	0.40
0.32	0.38
0.30	0.37
0.28	0.35
0.26	0.34
0.24	0.32
0.22	0.30
0.20	0.29
0.18	0.27
0.16	0.25
0.14	0.23
0.12	0.22
0.10	0.20

FIXED WINDOW WITH 1" GLAZING

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 ²

Glass SHGC ³	Overall SHGC 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	0.40
0.40	0.35
0.35	0.31
0.30	0.27
0.25	0.22
0.20	0.18
0.15	0.13
0.10	0.09
0.05	0.05

Visible Transmittance ²

Glass VT ³	Overall VT 4
0.75	0.65
0.70	0.61
0.65	0.57
0.60	0.52
0.55	0.48
0.50	0.44
0.45	0.39
0.40	0.35
0.35	0.30
0.30	0.26
0.25	0.22
0.20	0.17
0.15	0.13
0.10	0.09
0.05	0.04



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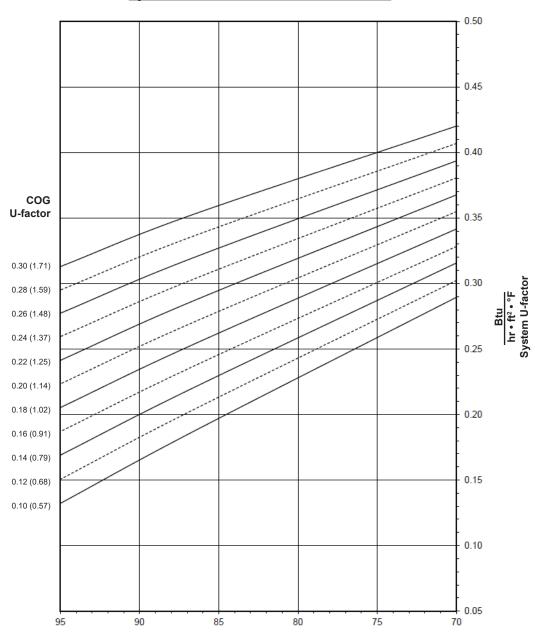
THERMAL CHARTS EC 97911-255

FIXED WINDOW WITH 1-3/4" TRIPLE GLAZING

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:

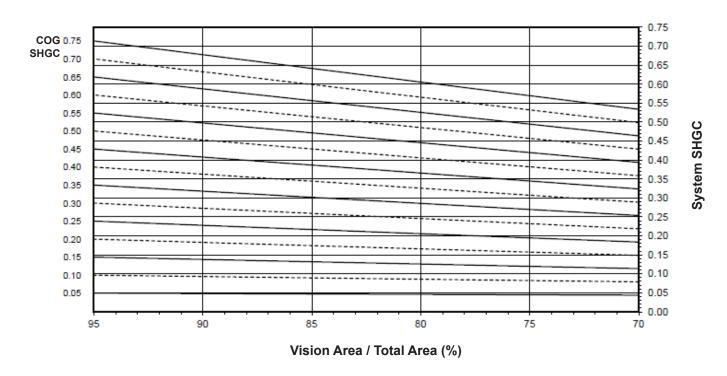


THERMAL CHARTS

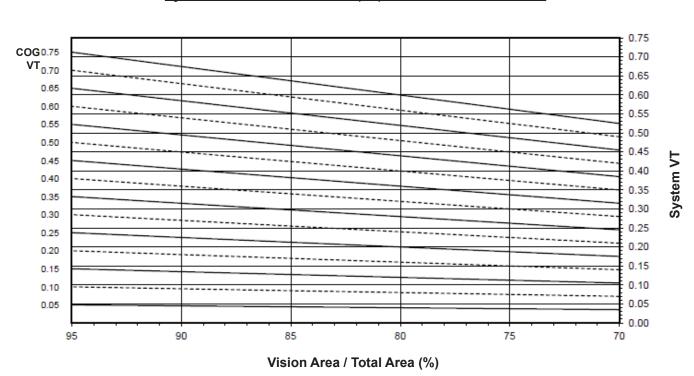
EC 97911-255

FIXED WINDOW WITH 1-3/4" TRIPLE GLAZING

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)

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

Glass U-Factor ³	Overall U-Factor 4
0.30	0.35
0.28	0.34
0.26	0.32
0.24	0.30
0.22	0.29
0.20	0.27
0.18	0.25
0.16	0.24
0.14	0.22
0.12	0.20
0.10	0.19

FIXED WINDOW WITH 1-3/4" TRIPLE GLAZING

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 Matrix²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.65
0.70	0.61
0.65	0.57
0.60	0.52
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	0.05

Visible Transmittance 2

Glass VT ³	Overall VT 4
0.75	0.65
0.70	0.61
0.65	0.56
0.60	0.52
0.55	0.48
0.50	0.43
0.45	0.39
0.40	0.35
0.35	0.30
0.30	0.26
0.25	0.22
0.20	0.17
0.15	0.13
0.10	0.09
0.05	0.04

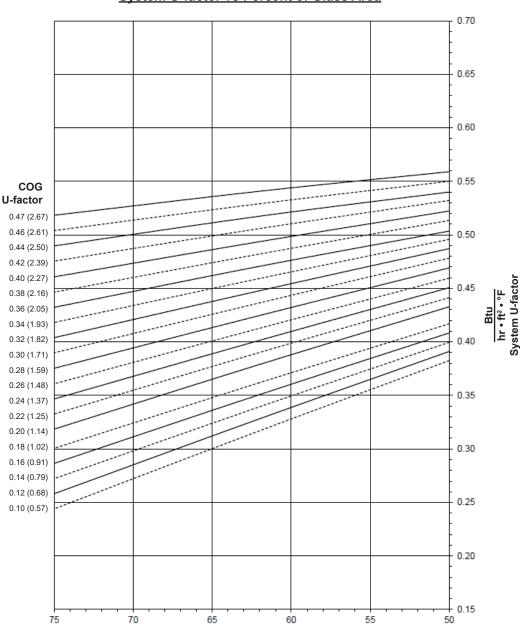


CASEMENT/PROJECT-IN WINDOW WITH 1" GLAZING

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:

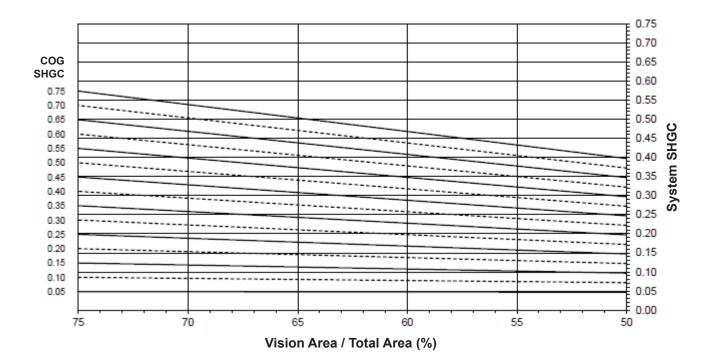


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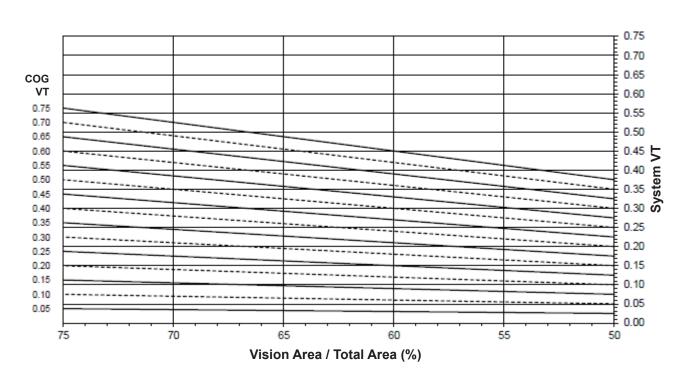
EC 97911-255 THERMAL CHARTS

CASEMENT/PROJECT-IN WINDOW WITH 1" GLAZING

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



System Visible Transmittance (VT) vs Percent of Vision Area





THERMAL PERFORMANCE MATRIX (NFRC SIZE)

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

(2.6/ 1. 1)	
Glass U-Factor ³	Overall U-Factor 4
0.48	0.54
0.46	0.53
0.44	0.52
0.42	0.51
0.40	0.49
0.38	0.48
0.36	0.47
0.34	0.46
0.32	0.45
0.30	0.44
0.28	0.42
0.26	0.41
0.24	0.40
0.22	0.39
0.20	0.38
0.18	0.36
0.16	0.35
0.14	0.34
0.12	0.33
0.10	0.32

CASEMENT/PROJECT-IN WINDOW WITH 1" GLAZING

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 1,500 mm wide by 600 mm high (59-1/16" by 23-5/8").

SHGC Matrix ²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.48
0.70	0.45
0.65	0.42
0.60	0.39
0.55	0.36
0.50	0.33
0.45	0.30
0.40	0.26
0.35	0.23
0.30	0.20
0.25	0.17
0.20	0.14
0.15	0.11
0.10	0.08
0.05	0.05

Visible Transmittance ²

Glass VT ³	Overall VT ⁴
0.75	0.47
0.70	0.43
0.65	0.40
0.60	0.37
0.55	0.34
0.50	0.31
0.45	0.28
0.40	0.25
0.35	0.22
0.30	0.19
0.25	0.16
0.20	0.12
0.15	0.09
0.10	0.06
0.05	0.03



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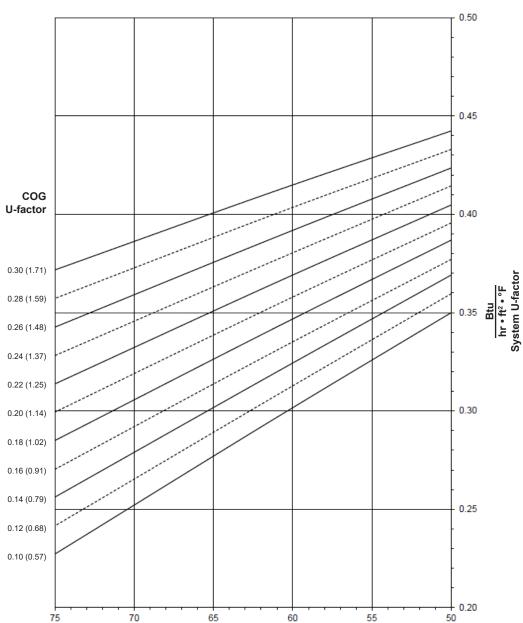
EC 97911-255 THERMAL CHARTS

CASEMENT/PROJECT-IN WINDOW WITH 1-3/4" TRIPLE GLAZING

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:

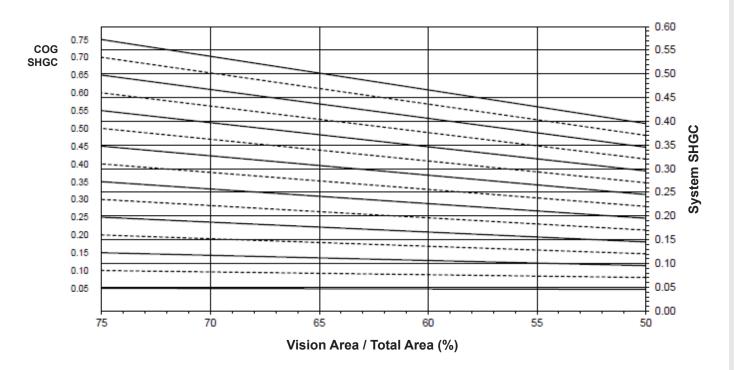


THERMAL CHARTS

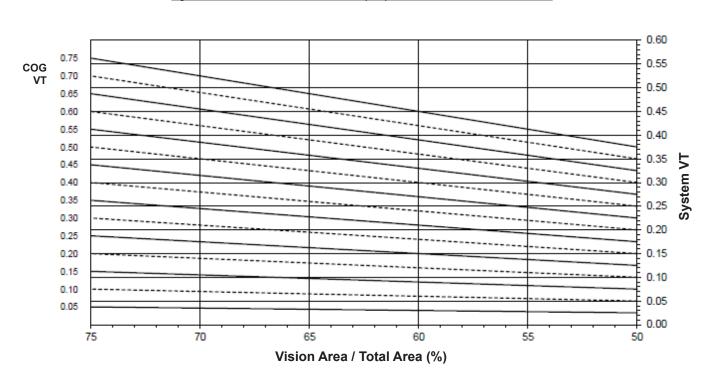
EC 97911-255

CASEMENT/PROJECT-IN WINDOW WITH 1-3/4" TRIPLE GLAZING

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)

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

Glass U-Factor ³	Overall U-Factor 4
0.30	0.41
0.28	0.40
0.26	0.39
0.24	0.38
0.22	0.36
0.20	0.35
0.18	0.34
0.16	0.33
0.14	0.32
0.12	0.31
0.10	0.29

CASEMENT/PROJECT-IN WINDOW WITH 1-3/4" TRIPLE GLAZING

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 1,500 mm wide by 600 mm high (59-1/16" by 23-5/8").

SHGC Matrix²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.48
0.70	0.45
0.65	0.41
0.60	0.38
0.55	0.35
0.50	0.32
0.45	0.29
0.40	0.26
0.35	0.23
0.30	0.20
0.25	0.17
0.20	0.14
0.15	0.11
0.10	0.08
0.05	0.05

Visible Transmittance ²

Glass VT ³	Overall VT 4
0.75	0.46
0.70	0.43
0.65	0.40
0.60	0.37
0.55	0.34
0.50	0.31
0.45	0.28
0.40	0.25
0.35	0.21
0.30	0.18
0.25	0.15
0.20	0.12
0.15	0.09
0.10	0.06
0.05	0.03



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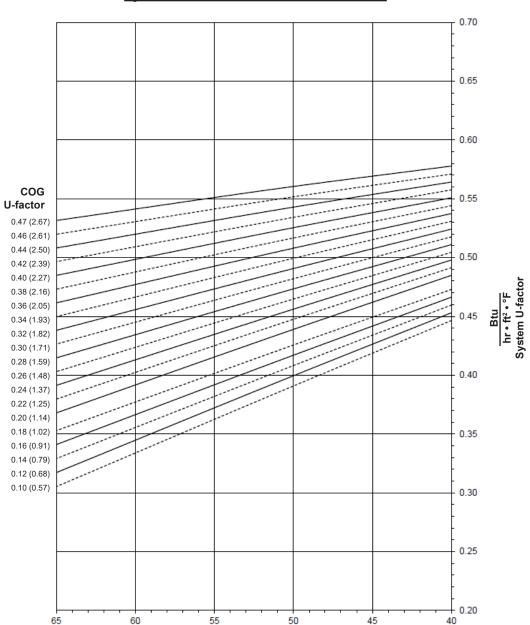
THERMAL CHARTS

Note:

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

System U-factor vs Percent of Glass Area

CASEMENT/PROJECT-OUT WINDOW WITH 1" GLAZING



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

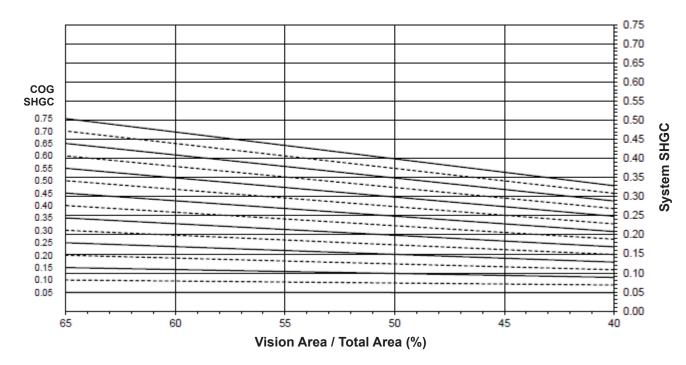
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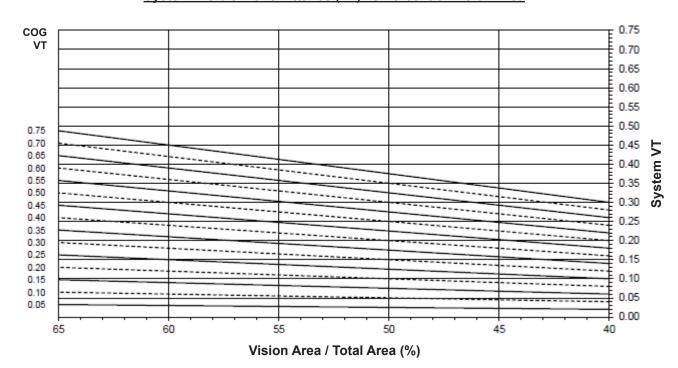
EC 97911-255 THERMAL CHARTS

CASEMENT/PROJECT-OUT WINDOW WITH 1" GLAZING

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



System Visible Transmittance (VT) vs Percent of Vision Area





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

. ,	
Glass U-Factor ³	Overall U-Factor 4
0.48	0.56
0.46	0.55
0.44	0.54
0.42	0.53
0.40	0.52
0.38	0.51
0.36	0.50
0.34	0.50
0.32	0.49
0.30	0.48
0.28	0.47
0.26	0.46
0.24	0.45
0.22	0.44
0.20	0.43
0.18	0.42
0.16	0.41
0.14	0.40
0.12	0.39
0.10	0.38
	•

CASEMENT/PROJECT-OUT WINDOW WITH 1" GLAZING

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 600 mm wide by 1,500 mm high (23-5/8" by 59-1/16").

SHGC Matrix ²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.41
0.70	0.38
0.65	0.36
0.60	0.33
0.55	0.31
0.50	0.28
0.45	0.25
0.40	0.23
0.35	0.20
0.30	0.18
0.25	0.15
0.20	0.13
0.15	0.10
0.10	0.07
0.05	0.05

Visible Transmittance ²

Glass VT ³	Overall VT 4
0.75	0.38
0.70	0.36
0.65	0.33
0.60	0.31
0.55	0.28
0.50	0.26
0.45	0.23
0.40	0.21
0.35	0.18
0.30	0.15
0.25	0.13
0.20	0.10
0.15	0.08
0.10	0.05
0.05	0.03



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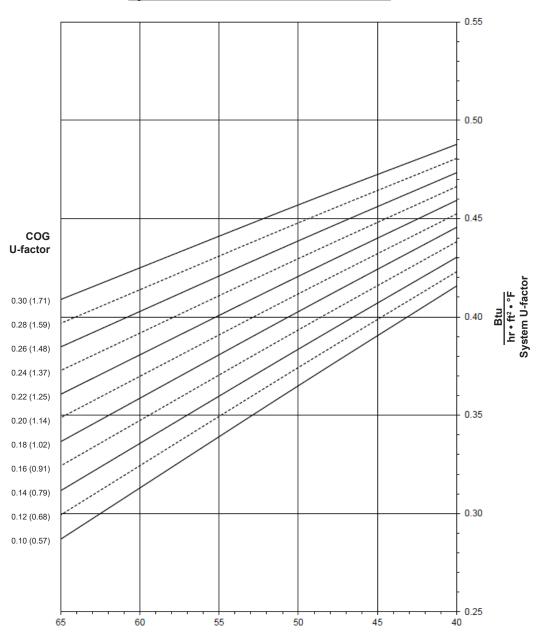
THERMAL CHARTS

CASEMENT/PROJECT-OUT WINDOW WITH 1-3/4" TRIPLE GLAZING

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:

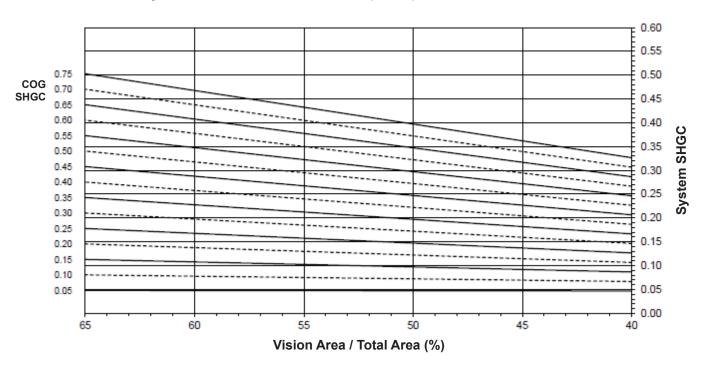


THERMAL CHARTS

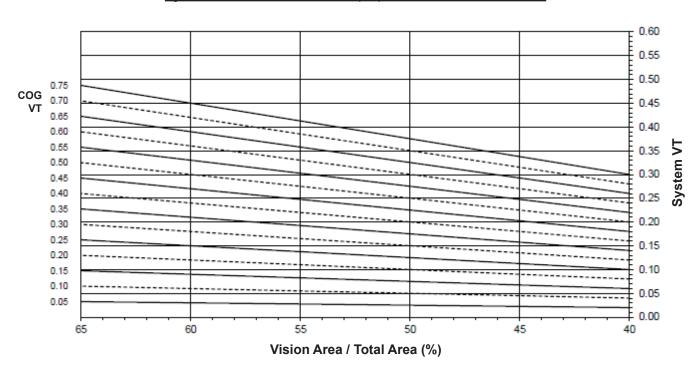
EC 97911-255

CASEMENT/PROJECT-OUT WINDOW WITH 1-3/4" TRIPLE GLAZING

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



System Visible Transmittance (VT) vs Percent of Vision Area





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

Glass U-Factor ³	Overall U-Factor 4
0.30	0.45
0.28	0.45
0.26	0.44
0.24	0.43
0.22	0.42
0.20	0.41
0.18	0.40
0.16	0.39
0.14	0.38
0.12	0.37
0.10	0.36

CASEMENT/PROJECT-OUT WINDOW WITH 1-3/4" TRIPLE GLAZING

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 600 mm wide by 1,500 mm high (23-5/8" by 59-1/16").

SHGC Matrix²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.40
0.70	0.38
0.65	0.35
0.60	0.33
0.55	0.30
0.50	0.28
0.45	0.25
0.40	0.22
0.35	0.20
0.30	0.17
0.25	0.15
0.20	0.12
0.15	0.10
0.10	0.07
0.05	0.05

Visible Transmittance ²

Glass VT ³	Overall VT 4
0.75	0.38
0.70	0.36
0.65	0.33
0.60	0.30
0.55	0.28
0.50	0.25
0.45	0.23
0.40	0.20
0.35	0.18
0.30	0.15
0.25	0.13
0.20	0.10
0.15	0.08
0.10	0.05
0.05	0.03



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