EC 97911-304 INDEX

FIXED WINDOW	3-4
AA®6400 FIXED 4" WINDOW	5-6
AA®6500 FIXED 5" WINDOW	7-8
AA®6600 FIXED 6" WINDOW	9-10
PROJECT-IN WINDOW	11-14
PROJECT-OUT WINDOW	15-18
INSWING CASEMENT WINDOW	19-22
OUTSWING CASEMENT WINDOW	23-26
MISCELLANEOUS DETAILS	27
WIND LOAD CHARTS	28-32
DEADLOAD CHARTS	33-34
THEDMAI CHADTS	25 52

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



2

BLANK PAGE

EC 97911-304

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.

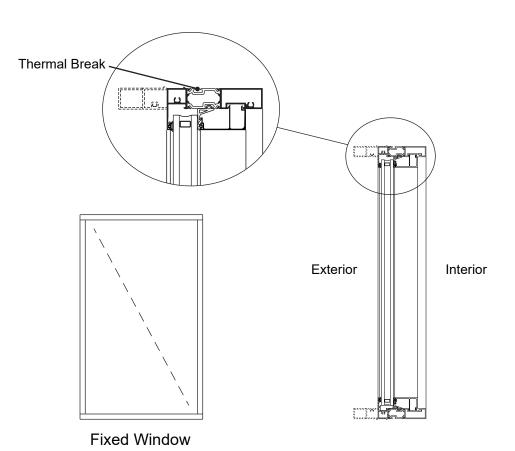
© 2014, Kawneer Company, Inc.



EC 97911-304 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 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.



FIXED WINDOW

EC 97911-304

CLASS and GRADE	Architectural Window Grade AW-PG70-FW (1" infill) Architectural Window Grade AW-PG45-FW (1-3/4" infill)
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

AA®6400/6500/6600 Thermal 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.

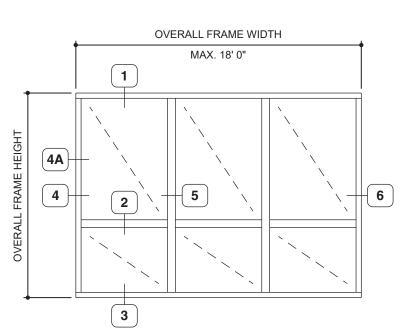
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement. © 2014, Kawneer Company, Inc.

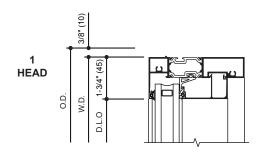


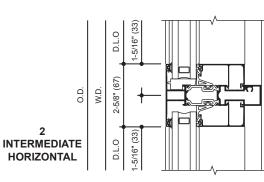
AA®6400 FIXED 4" WINDOW

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

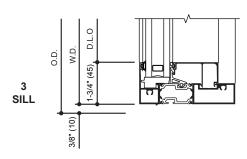
Additional information and CAD details are available at www.kawneer.com

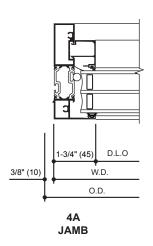


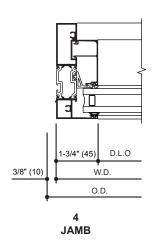


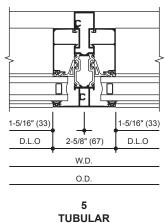


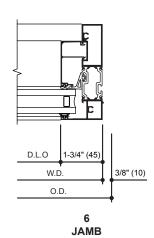
TYPICAL ELEVATION
Log onto www.kawneer.com for other configurations







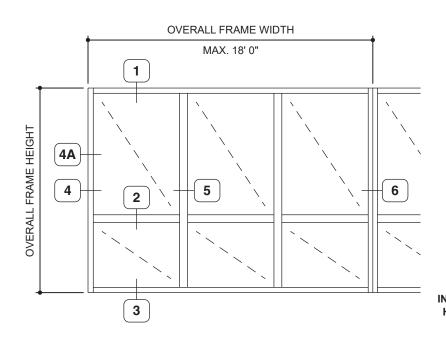


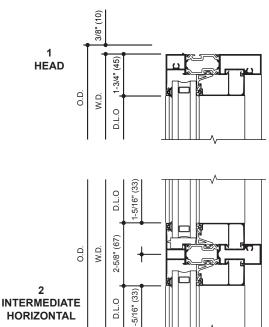


TUBULAR MULLION

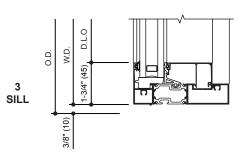


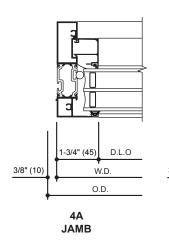
Additional information and CAD details are available at www.kawneer.com

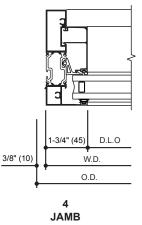


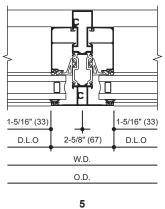


TYPICAL ELEVATION Log onto www.kawneer.com for other configurations

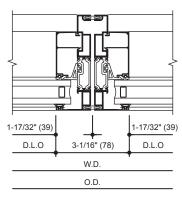








TUBULAR MULLION



6 **MULTI-MODULAR COUPLING MULLION**

KAWNEER

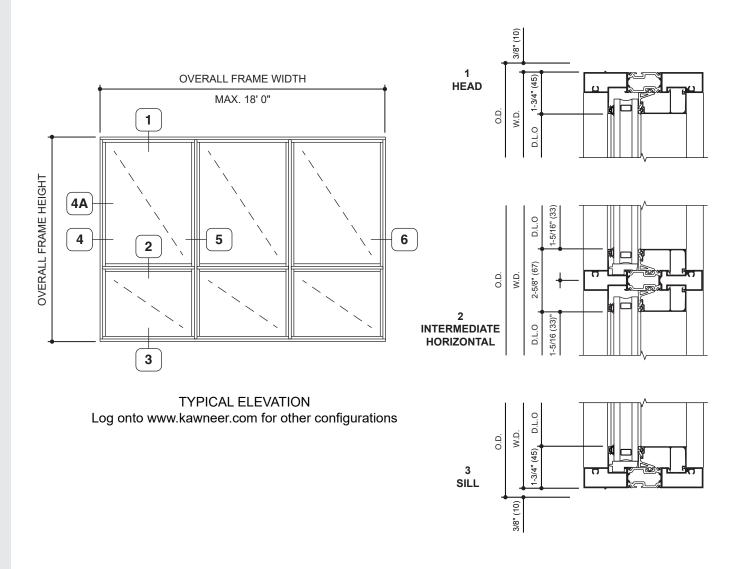
Laws and building and safety codes governing the design and use of Kawneer products, such as glazade afratneroe, window, and ourtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

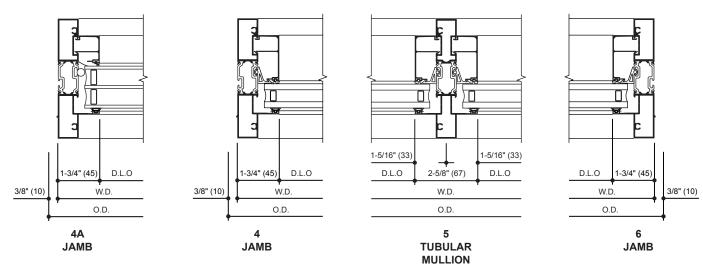
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© 2014, Kawneer Company, Inc.

7

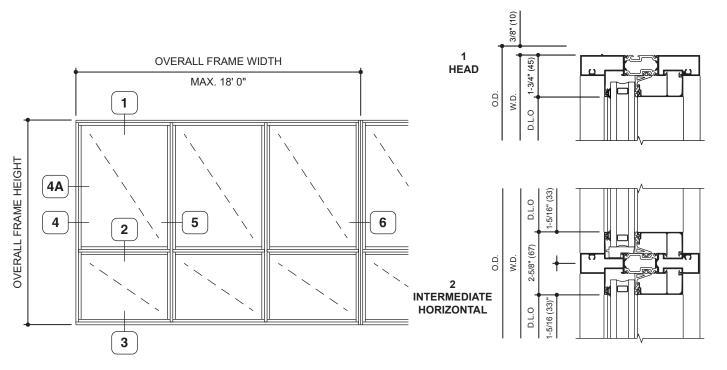
Additional information and CAD details are available at www.kawneer.com





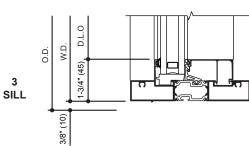


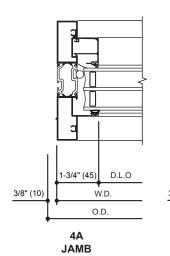
Additional information and CAD details are available at www.kawneer.com

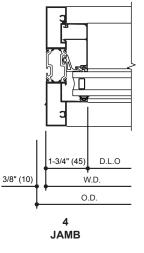


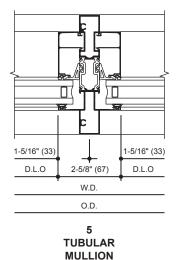
TYPICAL ELEVATION

Log onto www.kawneer.com for other configurations

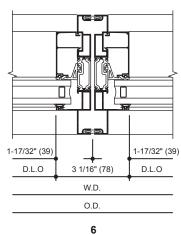








ADME130EN



MULTI-MODULAR COUPLING MULLION



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

© 2014, Kawneer Company, Inc.

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

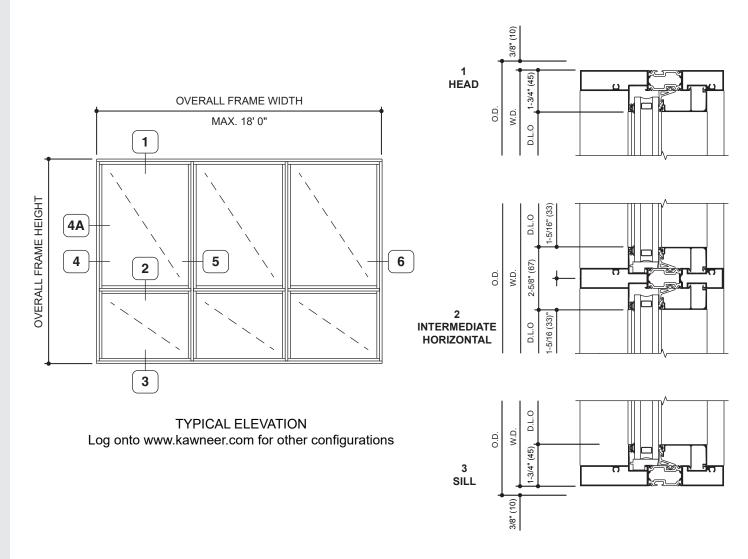
AA®6600 FIXED 6" WINDOW

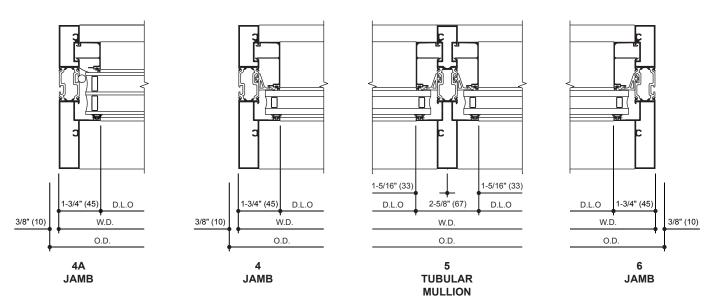
EC 97911-304

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

© 2014, Kawneer Company, Inc.

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



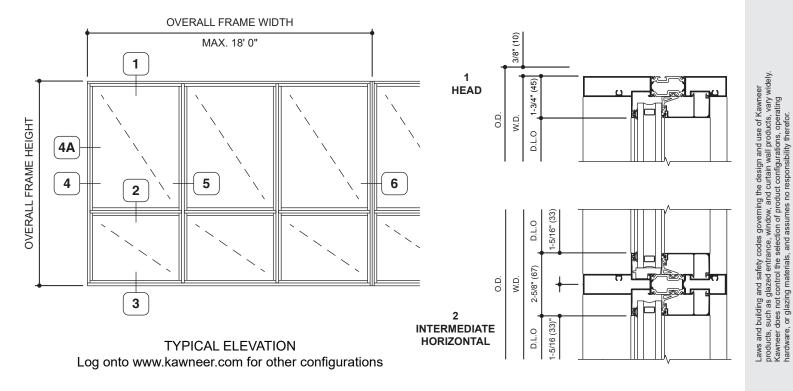


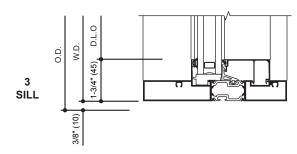


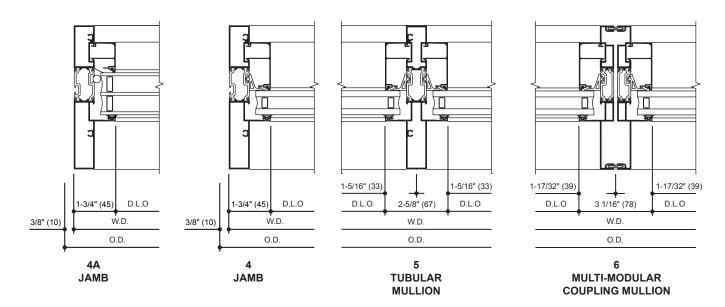
AA®6500 FIXED 6" WINDOW

EC 97911-304

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









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

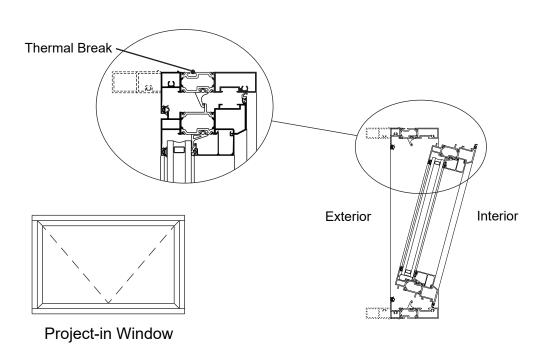
© 2014, Kawneer Company, Inc.

ADME130EN

EC 97911-304 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)
- 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.



CLASS and GRADE	Architectural Window Grade AW-PG70-AP (1" infill)
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"
STANDARD HARDWARE	Stainless Steel 4-Bar Hinges Single Handle Multi-Point Locking
OPTIONAL HARDWARE	Single Keyed Handle Multi-Point Locking Limit Stop (Verify with application engineering project specific limit stop requirements based on window size) Ferco Hardware (AA®6400 only) Single point lock capabilities Dual point lock capabilities (See application engineering for project specific review)
OTHER OPTIONS	Insect Screens



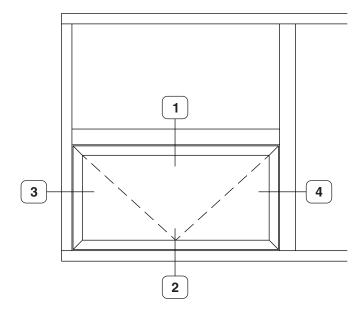
13

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

PROJECT-IN WINDOW

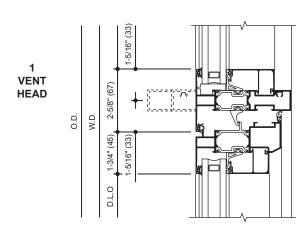
AA®6400/6500/6600 Thermal Window

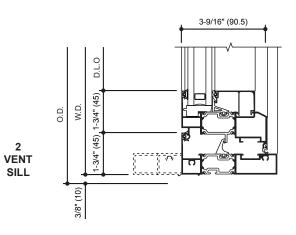
Additional information and CAD details are available at www.kawneer.com

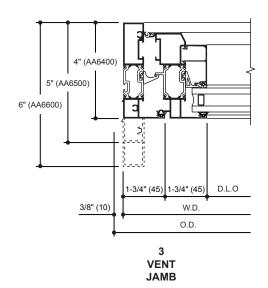


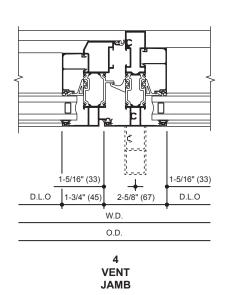
TYPICAL ELEVATION Log onto www.kawneer.com for other configurations

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





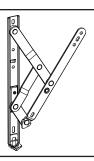






ADME130EN kawneer.com

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. Verify with application engineering project specific limit stop requirements based on window size.

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.

Laws and building and safety codes governing the design and use of Kawner 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.

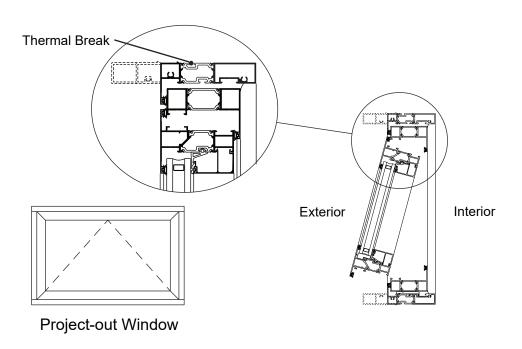
© 2014, Kawneer Company,



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)
- 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.



hout prior notice wher	
Kawneer reserves the right to change configuration without prior notice w	uct improvement.
Sawneer reserves i	necessary for product improvement.

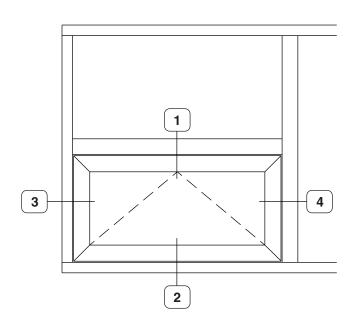
CLASS and GRADE	Architectural Window Grade AW-PG70-AP (1" infill)
TESTING STANDARD	AAMA / WDMA / CSA / 101 / I.S.2 / A440 (NAFS)
FIXED FRAMING DEPTH	4" (AA®6400), 5" (AA®6500), or 6" (AA®6600)
VENT / VENT FRAME DEPTH	3-3/8"
TYPICAL WALL THICKNESS	.070" Nominal Frame / .070" Nominal Vent
TYPICAL MAX.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



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

PROJECT-OUT WINDOW

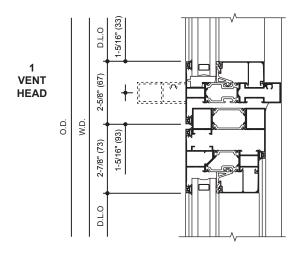
Additional information and CAD details are available at www.kawneer.com

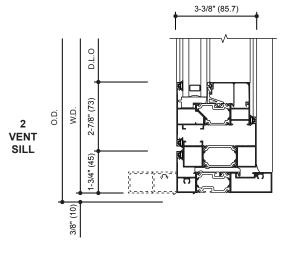


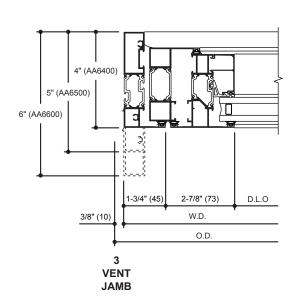
TYPICAL ELEVATION

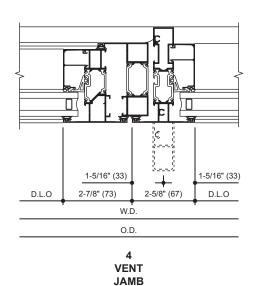
Log onto www.kawneer.com for other configurations

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



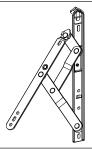








STAINLESS STEEL **4 BAR HINGES**



AA®6400/6500/6600 Thermal Window

A standard hinge for ventilators providing a 4" opening to comply with child safety requirements. Verify with application engineering project specific limit stop requirements based on window size.

MULTI-POINT LOCKING



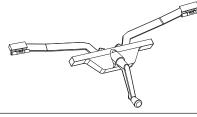
Single handle multi-point locking is standard providing any number of concealed EURO-Groove mounted locking points around the ventilator perimeter. Stylish handles are available in a silver painted finish.

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. Verify with application engineering project specific limit stop requirements based on window size.

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



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.

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.

ACCESS CONTROL LOCK





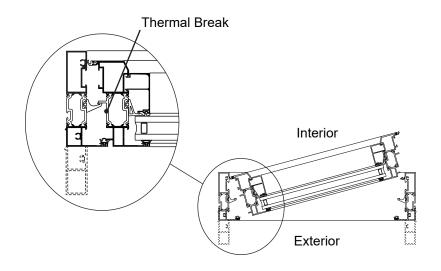
reserves the right to change configuration without prior notice when deemed necessary for product improvement.

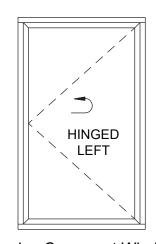
32014, Kawneer Company,

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.



of Kawneer	cts, vary widely.	perating	
us and building and safety codes governing the design and use of Kawneer	ducts, such as glazed entrance, window, and curtain wall products, vary widely.	wneer does not control the selection of product configurations, operating	
g and safety codes go	glazed entrance, wir	does not control the selection	
s and building	ducts, such as	wneer does no	

|--|--|

it	

CLASS and GRADE	Architectural Window Grade AW-PG70-C (1" infill) Architectural Window Grade AW-PG45-C (1-3/4" infill)
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 (Verify with application engineering project specific limit stop requirements based on window size)
OTHER OPTIONS	Insect Screens



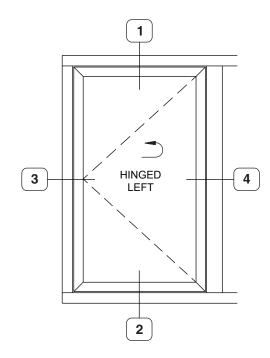
© 2014, Kawneer Company, Inc.

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

EC 97911-304

INSWING CASEMENT WINDOW

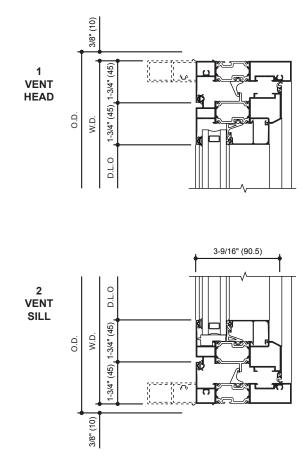
Additional information and CAD details are available at www.kawneer.com

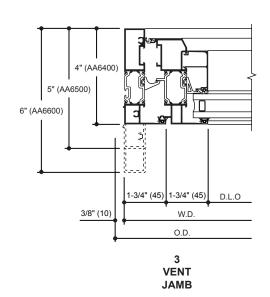


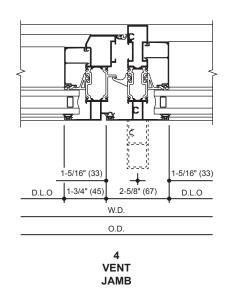
TYPICAL ELEVATION

Log onto www.kawneer.com for other configurations

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







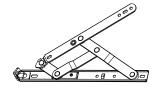


kawneer.com

22

EC 97911-304

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. Verify with application engineering project specific limit stop requirements based on window size.

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. 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.

© 2014, Kawneer Company,

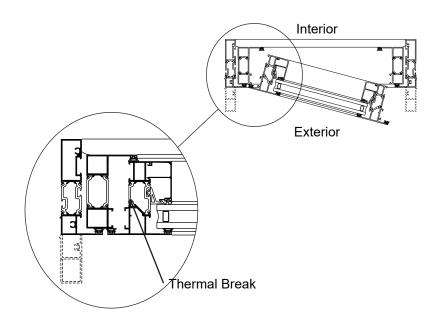


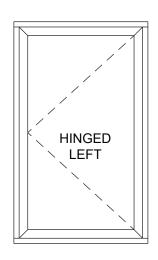
OUTSWING CASEMENT WINDOW

EC 97911-304

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)
- 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.



OUTSWING CASEMENT WINDOW

AA®6400/6500/6600 Thermal Window

EC 97911-304

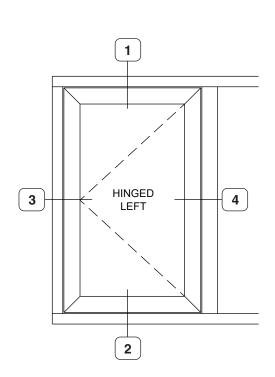
nolice		
without		
guranon		
) Econilica		
chang	ement.	
ngn to	improve	
es rue	roduct	
reserv	y for p	
Nawheel leserves the right to change configuration without prior notice	necessary for product improvement.	
_	\subseteq	

CLASS and GRADE	Architectural Window Grade AW-PG70-C (1" infill)
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"
STANDARD HARDWARE	Concealed Hinge Single Handle Multi-Point Locking Roto Operator (Verify with application engineering project specific limit stop requirements based on window size)
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)



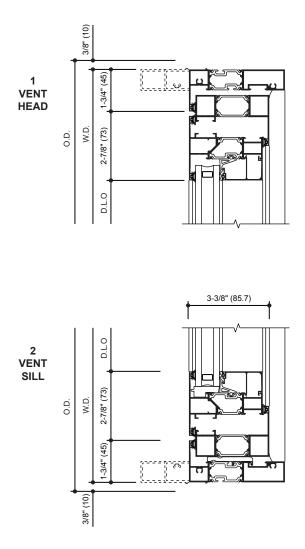
© 2014, Kawneer Company, Inc.

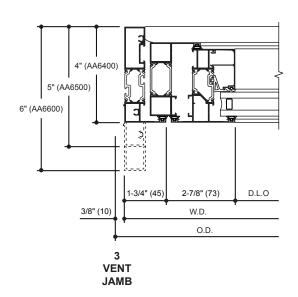
Additional information and CAD details are available at www.kawneer.com

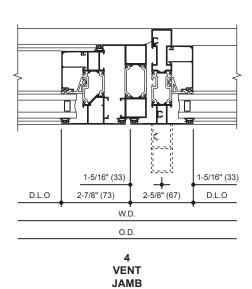


TYPICAL ELEVATION Log onto www.kawneer.com for other configurations

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









32014, Kawneer Company,

CONCEALED HINGES	
MULTI DOINT I	



AA®6400/6500/6600 Thermal Window

A standard hinge for outswing ventilators.

MULTI-POINT LOCKING



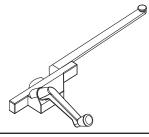
Single handle multi-point locking is standard providing any number of concealed EURO-Groove mounted locking points around the ventilator perimeter. Stylish handles are available in a silver painted finish.

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



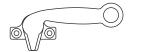
Roto operator is located on the bottom horizontal vent-frame. Standard finish shall be painted silver. Verify with application engineering project specific limit stop requirements based on window size.

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

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.

FOR SASH POLE

ACCESS CONTROL



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



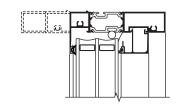
Key released limit arms may be used to restrict ventilator opening when used with cam handles or access control locks. Verify with application engineering project specific limit stop requirements based on window size.



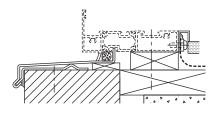
EC 97911-304 **MISCELLANEOUS**

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

TRIPLE GLAZED HEAD

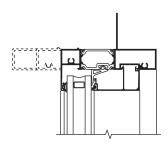


ANCHORS

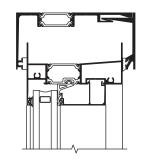


TYPICAL SILL EXTENSION

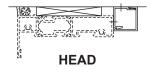
FLANGE LEG FRAME



HEAD RECEPTOR (INTERIOR INSTALLED)



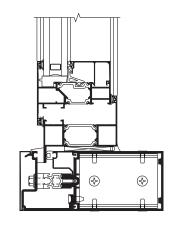
TRIM DETAILS



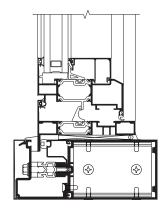


SILL

CURTAIN WALL ADAPTERS



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



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



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 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.

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain well 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.

2014, Kawneer Company,



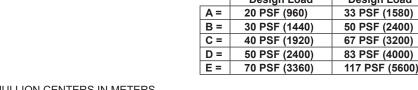
Laws and building and safety codes governing the design and use of Kawneer broucks, such as glazed entrance, window, and cutain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

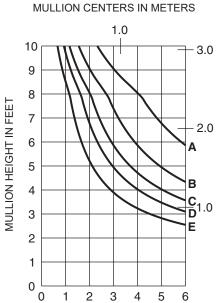
© 2014, Kawneer Company, Inc.

kawneer.com

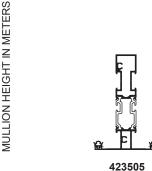
WIND LOAD CHARTS EC 97911-304

	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 (3360)	117 PSF (5600)

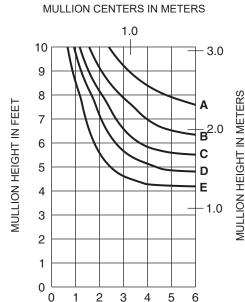




MULLION CENTERS IN FEET **UNITS WITH HORIZONTALS**



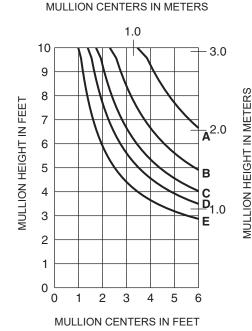
WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505



MULLION CENTERS IN FEET

UNITS WITHOUT HORIZONTALS

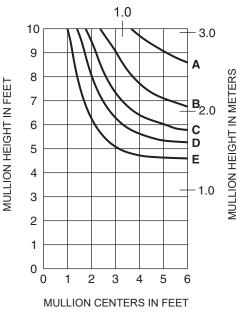
MULLION CENTERS IN METERS



UNITS WITH HORIZONTALS

423513

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



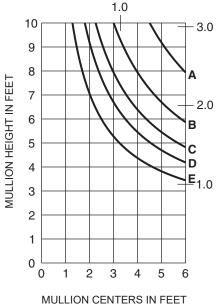
UNITS WITHOUT HORIZONTALS

KAWNEER

EC 97911-304

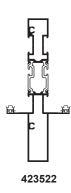
	Allowable Stress	LRFD Ultimate
	Design Load	Design Load
A =	20 PSF (960)	33 PSF (1580)
B =	30 PSF (1440)	50 PSF (2400)
C =	40 PSF (1920)	67 PSF (3200)
D =	50 PSF (2400)	83 PSF (4000)
E =	70 PSF (3360)	117 PSF (5600)





MULLION HEIGHT IN METERS

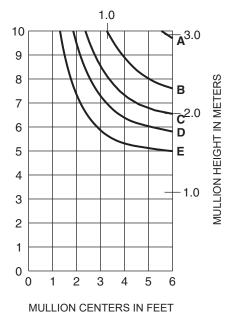
UNITS WITH HORIZONTALS



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

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

© 2014, Kawneer Company, Inc.

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.



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

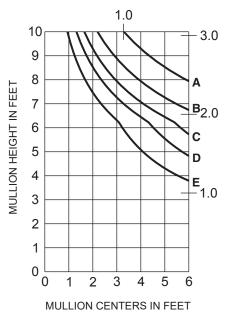
Laws and building and safety codes governing the design and use of Kawne products, such as glazed entrance, window, and cutrain wall products, vary Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

© 2014, Kawneer Company, Inc.

WIND LOAD CHARTS EC 97911-304

	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 (3360)	117 PSF (5600)





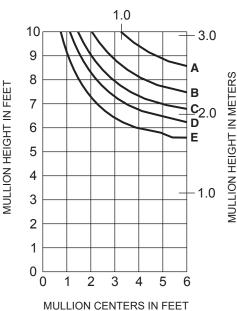
MULLION HEIGHT IN METERS

MULLION HEIGHT IN METERS

423504

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

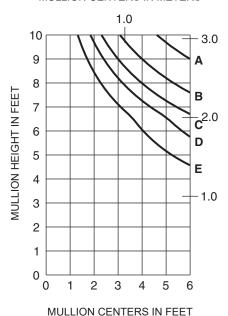
MULLION CENTERS IN METERS



UNITS WITHOUT HORIZONTALS

MULLION CENTERS IN METERS

UNITS WITH HORIZONTALS

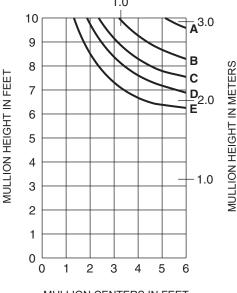


UNITS WITH HORIZONTALS

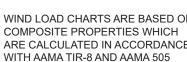
423514

WIND LOAD CHARTS ARE BASED ON ARE CALCULATED IN ACCORDANCE

MULLION CENTERS IN METERS



MULLION CENTERS IN FEET **UNITS WITHOUT HORIZONTALS**





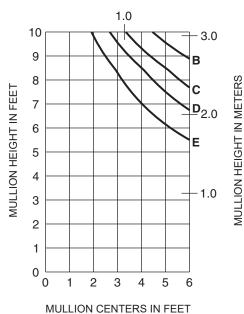
ADME130EN kawneer.com

WIND LOAD CHARTS

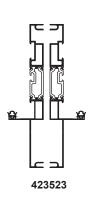
EC 97911-304

	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 (3360)	117 PSF (5600)



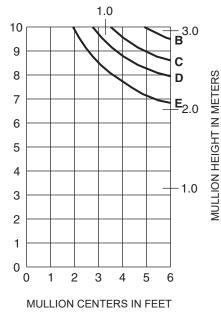


UNITS WITH HORIZONTALS



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

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

© 2014, Kawneer Company, Inc.

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.



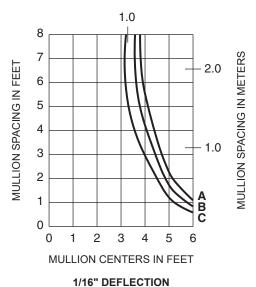
© 2014, Kawneer Company, Inc.

EC 97911-304 **DEADLOAD CHARTS**

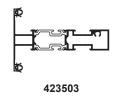
Laws and building and safety codes governing the design and use of Kawne products, such as glazed entrance, window, and cutrain wall products, vary Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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

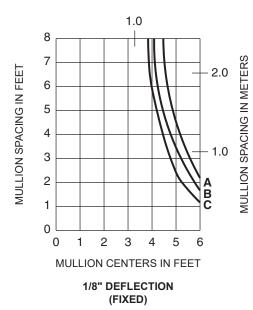




A = 1/8 POINT LOADING **B = 1/6 POINT LOADING** C = 1/4 POINT LOADING

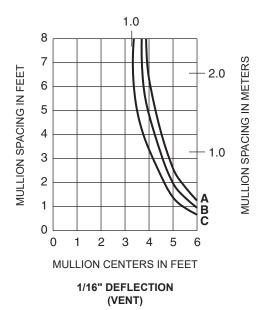


MULLION CENTERS IN METERS

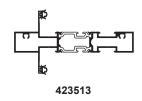


MULLION CENTERS IN METERS

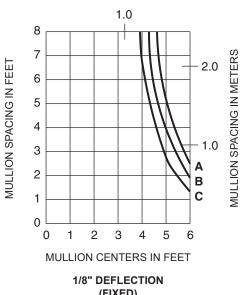
(VENT)



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



MULLION CENTERS IN METERS



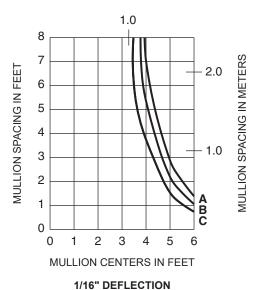




ADME130EN kawneer.com

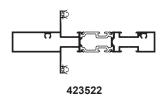
DEADLOAD CHARTS

MULLION CENTERS IN METERS

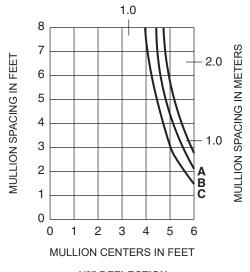


(VENT)

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



MULLION CENTERS IN METERS

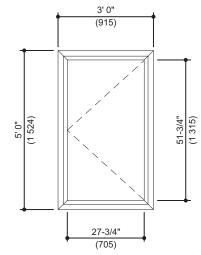


1/8" DEFLECTION (FIXED)

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.

THERMAL CHARTS EC 97911-304

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

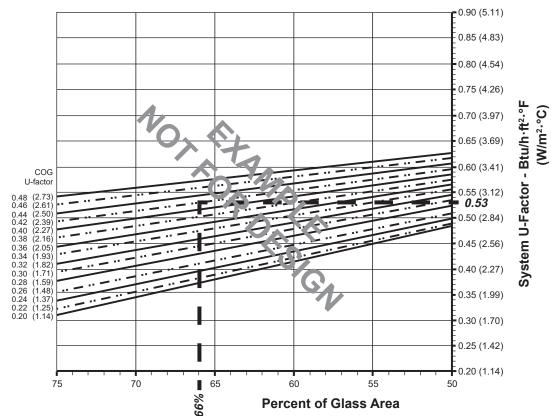
Total Daylight Opening = 27-3/4" • 51-3/4" = 9.97ft²

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

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



THERMAL CHARTS EC 97911-304

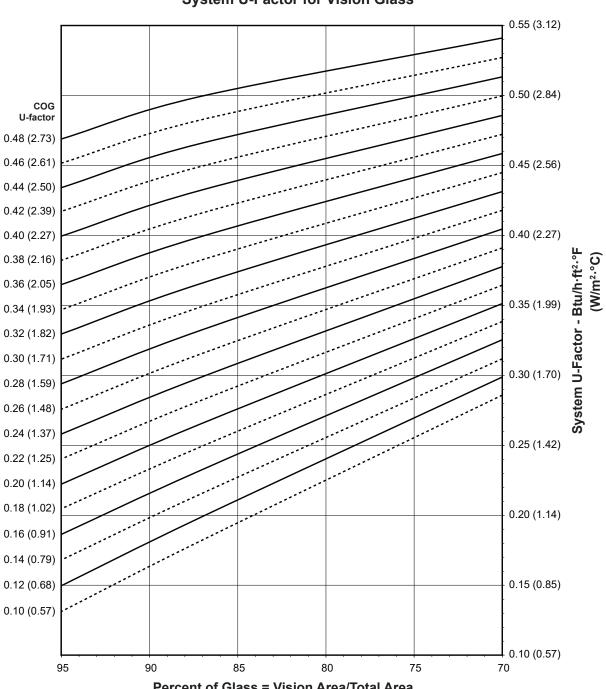
Fixed Window 1" Double Glazed - Warm-Edge Glazing Spacer

Note:

Values in parentheses are metric. COG=Center of Glass.

Charts are generated per AAMA 507.

System U-Factor for Vision Glass



Percent of Glass = Vision Area/Total Area (Total 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.



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

© 2014, Kawneer Company, Inc.

ADME130EN

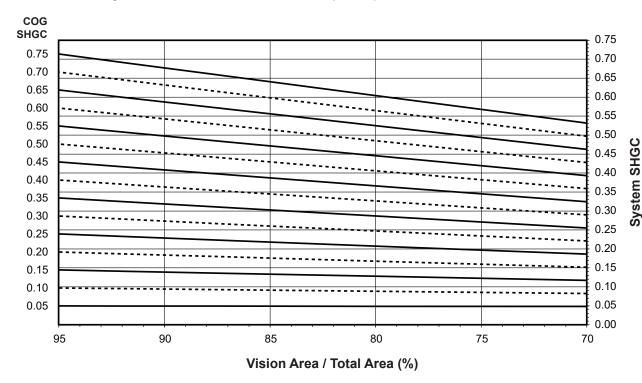
© 2014, Kawneer Company, Inc.

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

THERMAL CHARTS

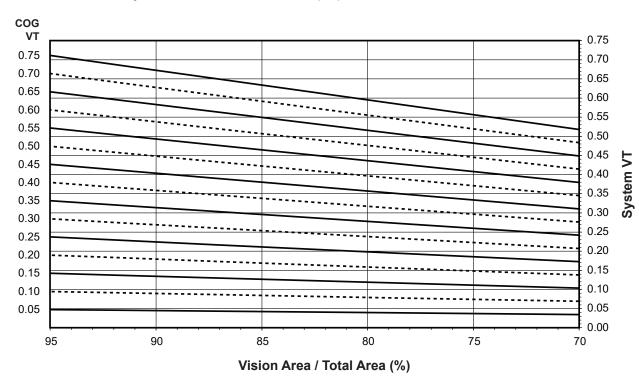
Fixed Window 1" Double Glazed - Warm-Edge Glazing Spacer

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



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.



kawneer.com ADME130EN

kawneer.com

THERMAL PERFORMANCE MATRIX (NFRC SIZE)

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

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.50
0.46	0.48
0.44	0.47
0.42	0.45
0.40	0.43
0.38	0.42
0.36	0.40
0.34	0.38
0.32	0.37
0.30	0.35
0.28	0.33
0.26	0.32
0.24	0.30
0.22	0.28
0.20	0.27
0.18	0.25
0.16	0.23
0.14	0.22
0.12	0.20
0.10	0.18

Fixed Window 1" Double Glazed Warm-Edge Glazing 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 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	0.14
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



ADME130EN

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

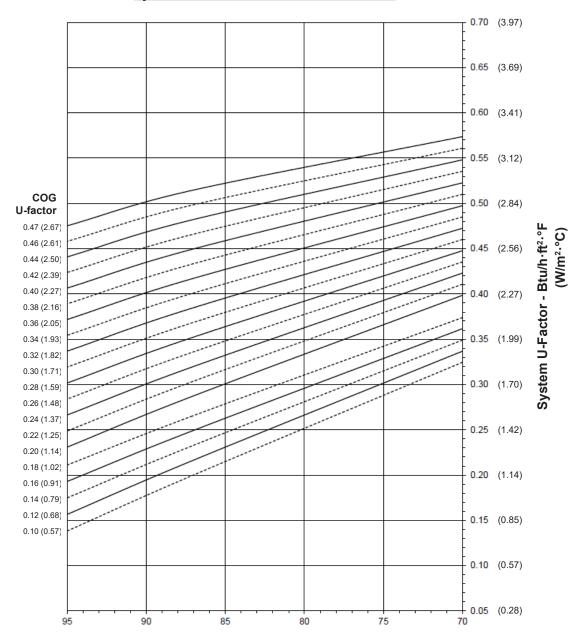
EC 97911-304 THERMAL CHARTS

Fixed Window 1" Double Glazed - Aluminum Glazing Spacer

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.

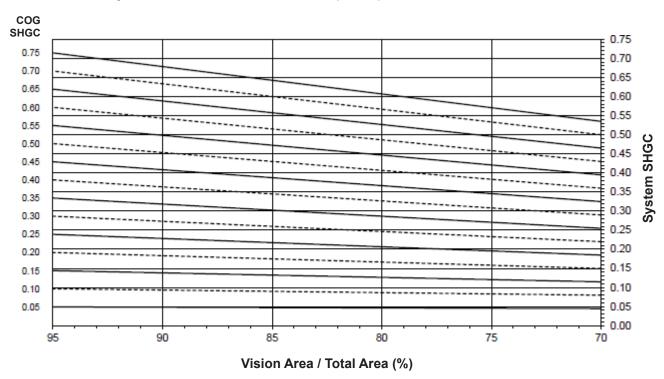


THERMAL CHARTS

EC 97911-304

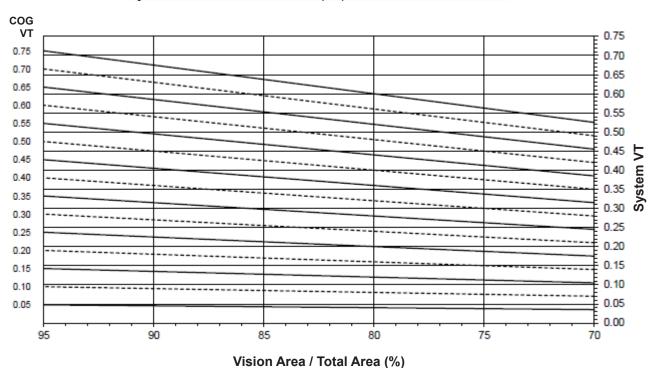
Fixed Window 1" Double Glazed - Aluminum Glazing Spacer

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



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.



was and building and safety codes governing the design and use of Kawneer Nordst, such as glazed entrance, window, and cutrain well products, vary widely, wwneer does not control the selection of product configurations, operating ridware, or glazing materials, and assumes no responsibility therefor.

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

Ö

EC 97911-304

THERMAL PERFORMANCE MATRIX (NFRC SIZE)

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

	1
Glass U-Factor ³	Overall U-Factor 4
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
0.12	0.22

Fixed Window 1" Double Glazed Aluminum Glazing 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 Matrix²

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



EC 97911-304

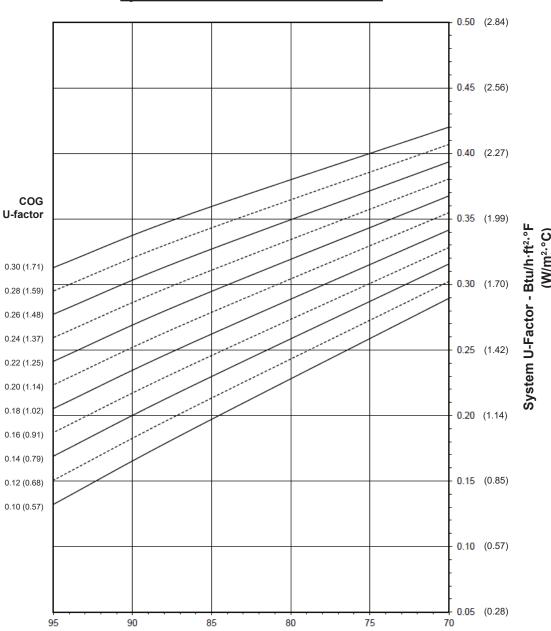
Fixed Window 1-3/4" Triple Glazed - Aluminum Glazing Spacer

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.



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

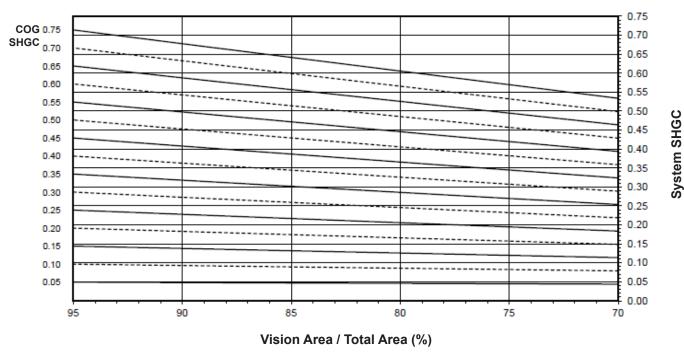
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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

EC 97911-304 THERMAL CHARTS

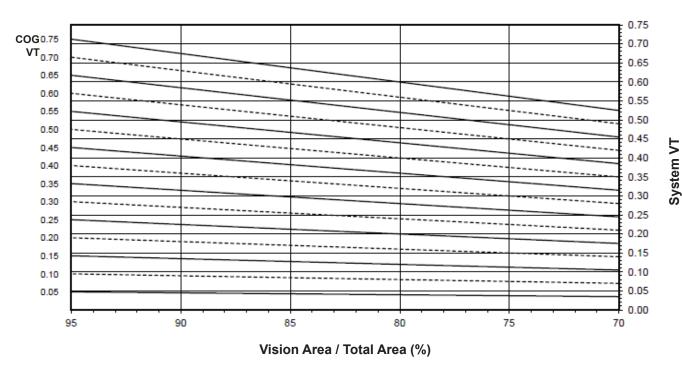
Fixed Window 1-3/4" Triple Glazed - Aluminum Glazing Spacer

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



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.



Fixed Window 1-3/4" Triple Glazed Aluminum Glazing Spacer

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

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

SHGC Wallix	
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

VISIBLE HAIISHIILLANCE	
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

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

© 2014, Kawneer Company, Inc.

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



© 2014, Kawneer Company, Inc.

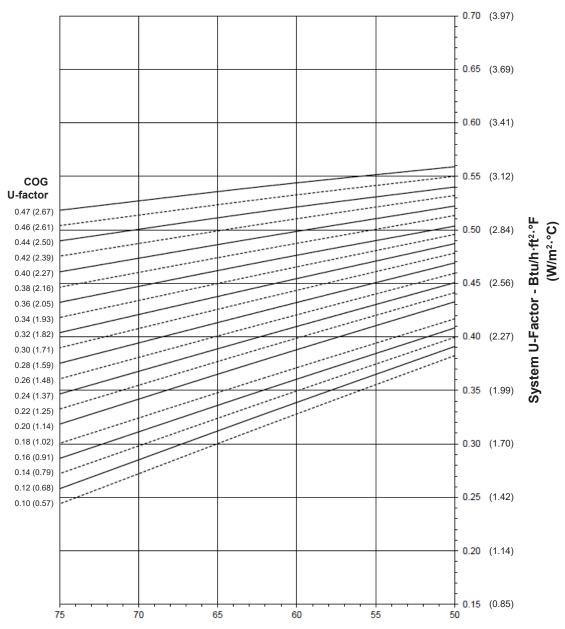
EC 97911-304 THERMAL CHARTS

Casement/Project-In Window 1" Double Glazed - Aluminum Glazing Spacer

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.

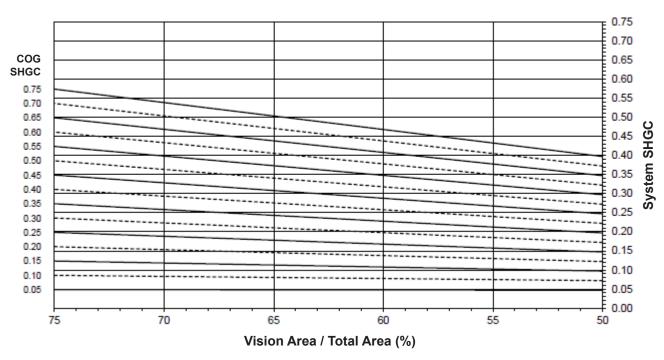


THERMAL CHARTS

EC 97911-304

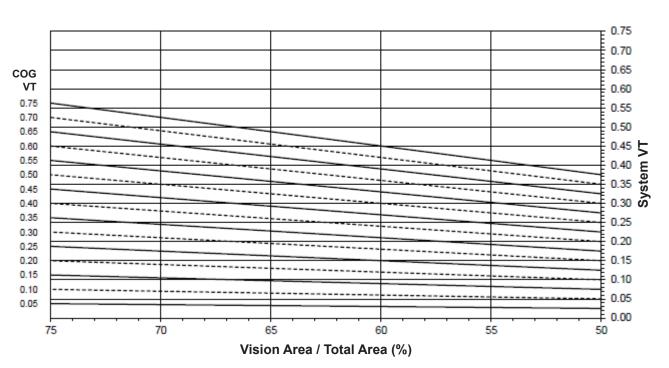
Casement/Project-In Window 1" Double Glazed - Aluminum Glazing Spacer

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



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.



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

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

,	
Overall U-Factor 4	
0.54	
0.53	
0.52	
0.51	
0.49	
0.48	
0.47	
0.46	
0.45	
0.44	
0.42	
0.41	
0.40	
0.39	
0.38	
0.36	
0.35	
0.34	
0.33	
0.32	

Casement/Project-In Window 1" Double Glazed **Aluminum Glazing 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 1,500 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



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

© 2014, Kawneer Company, Inc.

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entriance, 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.

THERMAL CHARTS

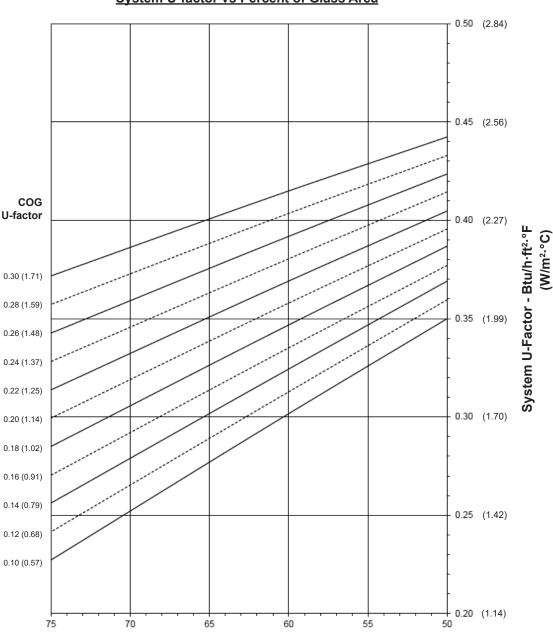
Casement/Project-In Window 1-3/4" Triple Glazed - Aluminum Glazing Spacer

AA®6400/6500/6600 Thermal Window

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.



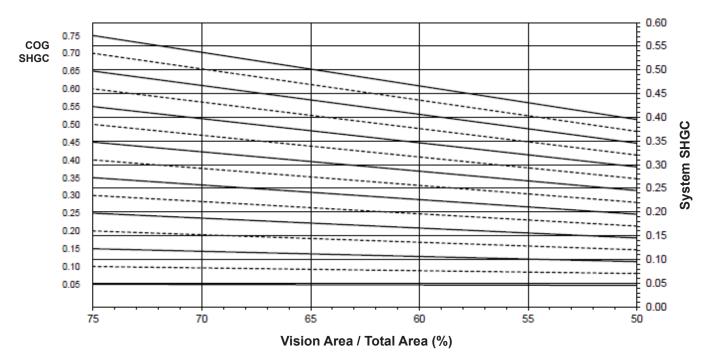
49

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

EC 97911-304 THERMAL CHARTS

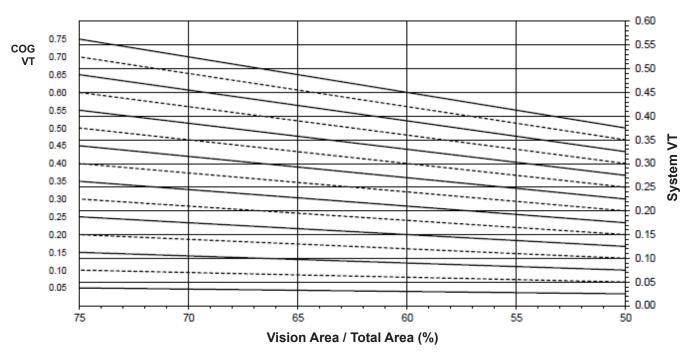
Casement/Project-In Window 1-3/4" Triple Glazed - Aluminum Glazing Spacer

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



Charts are generated per AAMA 507.

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.



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 1-3/4" Triple Glazed Aluminum Glazing 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 1,500 mm wide by 600 mm high (59-1/16" by 23-5/8").

SHGC Matrix ²

SIGG WALLIX		
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

VISIBLE HALISHILLANCE	
Overall VT ⁴	
0.46	
0.43	
0.40	
0.37	
0.34	
0.31	
0.28	
0.25	
0.21	
0.18	
0.15	
0.12	
0.09	
0.06	
0.03	



© 2014, Kawneer Company, Inc.

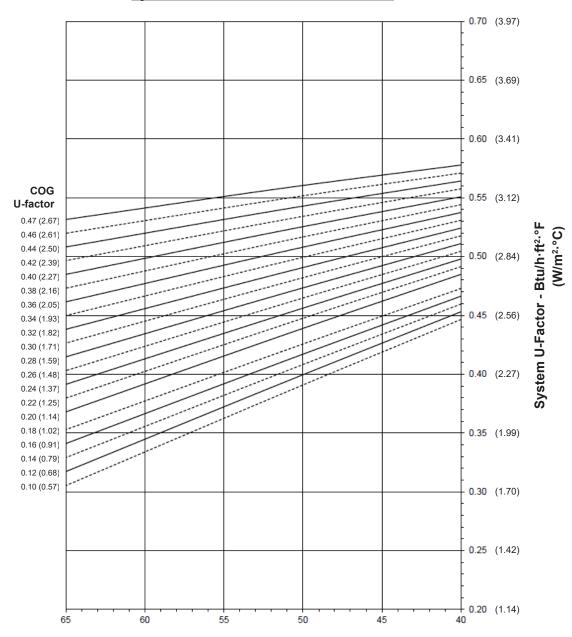
EC 97911-304 THERMAL CHARTS

Casement/Project-Out Window 1" Double Glazed - Aluminum Glazing Spacer

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:

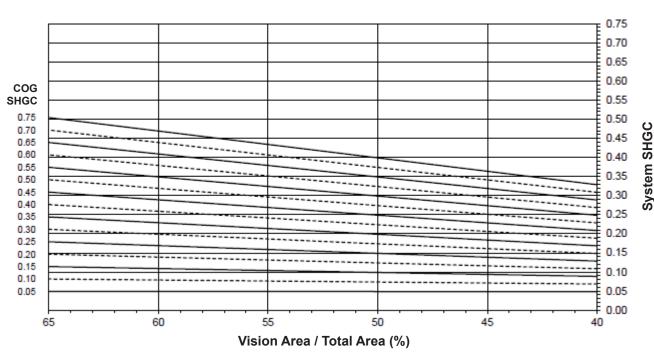
For glass values that are not listed, linear interpolation is permitted. Glass properties are based on center of glass values and are obtained from your glass supplier.



EC 97911-304

Casement/Project-Out Window 1" Double Glazed - Aluminum Glazing Spacer

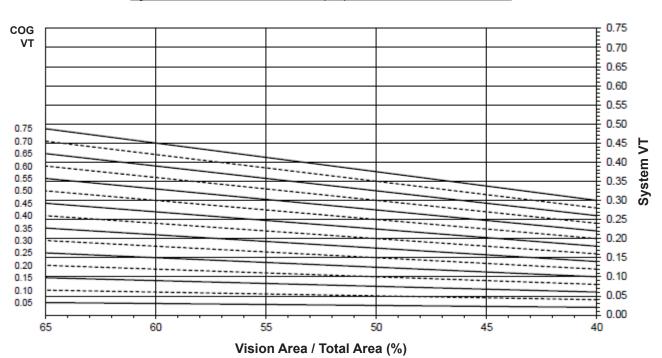
System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



Charts are generated per AAMA 507.

THERMAL CHARTS

System Visible Transmittance (VT) vs Percent of Vision Area



Charts are generated per AAMA 507.



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

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

THERMAL PERFORMANCE MATRIX (NFRC SIZE)

EC 97911-304

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

Overall U-Factor 4
0.56
0.55
0.54
0.53
0.52
0.51
0.50
0.50
0.49
0.48
0.47
0.46
0.45
0.44
0.43
0.42
0.41
0.40
0.39
0.38

Casement/Project-Out Window 1" Double Glazed Aluminum Glazing 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 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	0.41
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



kawneer.com ADME130EN

BLANK PAGE

EC 97911-304

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.
© 2014, Kawneer Company, Inc.

