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

EC 97911-063 INDEX

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LAWS AND BUILDING AND SAFETY CODES GOVERNING THE DESIGN AND USE OF GLAZED ENTRANCE, WINDOW, AND CURTAIN WALL PRODUCTS VARY WIDELY. KAWNEER DOES NOT CONTROL THE SELECTION OF PRODUCT CONFIGURATIONS, OPERATING HARDWARE, OR GLAZING MATERIALS, AND ASSUMES NO RESPONSIBILITY THEREFOR.

Metric (SI) conversion figures are included throughout these details for reference. Numbers in parentheses () are millimeters unless otherwise noted.

The following metric (SI) units are found in these details:

m - meter

cm - centimeter

mm - millimeter

s - second

Pa - pascal

MPa - megapascal

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



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EC 97911-063

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

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

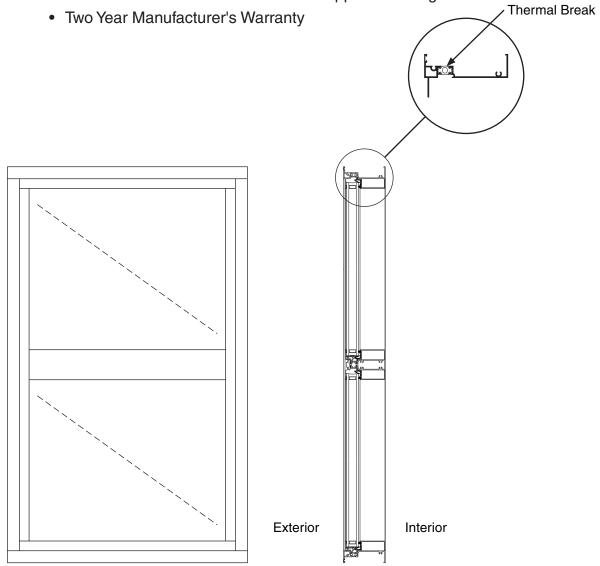
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EC 97911-063 FIXED WINDOW

Standard Features

- High Performance Commercial Window
- IsoPort[™] Thermal Break
- Screw and Spline Frame Corner Joinery
- Factory Silicone Glazed
- Interior Applied Glazing Bead
- Architectural Anodized Finishes and Applied Coatings



Fixed Window

For specific product applications, Consult your Kawneer representative.

ADME050



FIXED WINDOW EC 97911-063

CLASS and G	RADE	CLASS	CLASS CW-PG50-FW / AW-PG50-FW				
OPTIONAL CI	LASS and GRAD	E CLASS	CLASS AW-PG70-FW				
TESTING STA	NDARD	AAMA	/WDMA/CSA/	101 / I.S.2 / A440	0-08 (NAFS-08)		
FRAME DEPT	'Н	3-1/2"	Overall Frame De	epth			
TYPICAL WAI	LL THICKNESS	.070" 1	Nominal				
TYPICAL MAX	X. VENT SIZE	60" x 9	99"				
TYPICAL MIN	I. VENT SIZE	15" x 1	15"				
TYPICAL CONFIGURATIONS							
STANDARD INFILL OPTIONS 1"							
STANDARD HARDWARE Not Applicable							
OPTIONAL HARDWARE Not Applicable							
OTHER OPTION	ONS	Exterio Perime Exterio True In Structi Vertica Strap	en the Glass Mur or Applied Muntin eters and Sills or Pannings and Intermediate Munti ural Mullions ally or Horizontally Anchors I Fin Flange	Grids nterior Trims in			
FIXED WINDOW PRODUCT PERFORMANCE							
Air Infiltration NAFS-08	Water Resistance NAFS-08	Design Load NAFS-08	Thermal Transmittance AAMA 507 NFRC 100	Condensation Resistance* AAMA 1503	Condensation Temperature Index* CSA A440.2	Sound Transmittance** ASTM E 1425 ASTM E 1332	
≤ 0.10 Cfm/ft²	CW - 10 PSF AW - 15 PSF	50 PSF 70 PSF	"U" Factor 0.33 to 0.56	CRF frame - 67 CRF glass - 71	I frame - 60 I glass - 62	STC - 36 OITC - 28	

Note: "U" Values based on computer simulations utilizing Insulating Glass, Low E Coatings and Warm Edge Spacers. See Thermal Charts for various glass types.



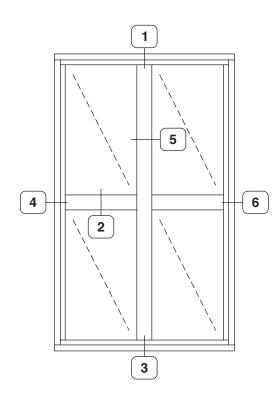
^{*} CRF and Temperature index based on high performance Low E Glass and Warm Edge Spacers.

^{**} Acoustical test based on laminated glass.

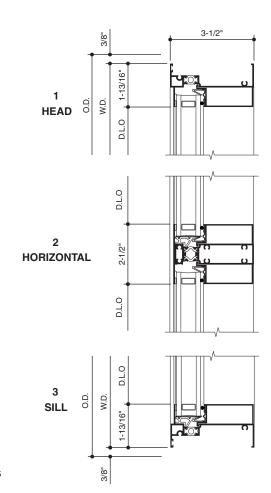
EC 97911-063 FIXED WINDOW

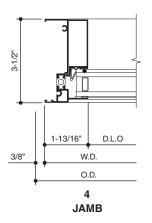
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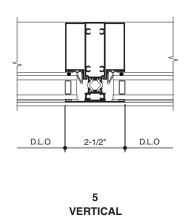
AA™3350 IsoPort™ FIXED WINDOW Standard Design

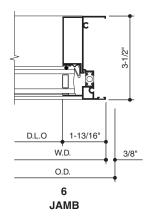


TYPICAL ELEVATION
Log onto www.kawneer.com for other configurations







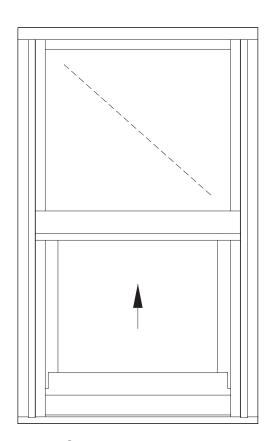


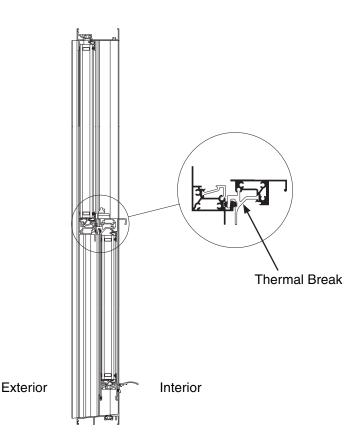


SINGLE HUNG WINDOW

Standard Features

- High Performance Commercial Window
- IsoPort[™] Thermal Break
- Screw and Spline Frame and Sash Corner Joinery
- Factory Silicone Glazed
- Interior Applied Glazing Bead
- Architectural Anodized Finishes and Applied Coatings
- Two Year Manufacturer's Warranty





Single Hung Window

For specific product applications, Consult your Kawneer representative.



EC 97911-063 SINGLE HUNG WINDOW

CLASS and GRADE		CLA	CLASS CW-PG50-H / AW-PG50-H				
OPTIONAL CLASS and GRADE			CLASS AW-PG70-H (MAX. SIZE 52" X 99")				
TEST STANDARD			A/WDMA/CSA/	101 / I.S.2 / A440	-08 (NAFS-08)		
FRAME DEPT	'Н	3-1/2	2" Overall Frame De	epth			
TYPICAL WAI	LL THICKNESS	.070	.070" Nominal				
TYPICAL MAX	XIMUM SIZE	60" >	60" x 99" (AW), 56" x 91" (CW)				
TYPICAL MIN	IIMUM SIZE	20" >	20" x 32-1/2" (10 PSF Sill), 20" x 33-1/2" (15 PSF Sill)				
TYPICAL CONFIGURATIONS							
STANDARD INFILL OPTIONS							
STANDARD HARDWARE		Zinc	Heavy Duty Balances Zinc Die Cast Sweep Locks Sash Stops				
OPTIONAL HARDWARE			Sill Auto Lock				
OTHER OPTIONS			reen the Glass Munior Applied Muntin neters and Sills rior Pannings and Instural Mullions cally or Horizontally of Anchors or 10 PSF or 15 PSI of Screens	Grids Iterior Trims Stacked	nce		
SINGLE HUNG WINDOW PRODUCT PERFORMANCE							
Air Infiltration NAFS-08	Water Resistance NAFS-08	Design Load NAFS-08	Thermal Transmittance AAMA 507 NFRC 100	Condensation Resistance* AAMA 1503	Condensation Temperature Index* CSA A440.2	Sound Transmittance** ASTM E 1425 ASTM E 1332	
\leq 0.30 Cfm/ft ²	CW - 10 PSF AW - 15 PSF	50 PSF 70 PSF	"U" Factor 0.38 to 0.57	CRF frame - 57 CRF glass - 60	I frame - 39 I glass - 58	STC - 36 OITC - 30	

Note: "U" Values based on computer simulations utilizing Insulating Glass, Low E Coatings and Warm Edge Spacers. See Thermal Charts for various glass types.

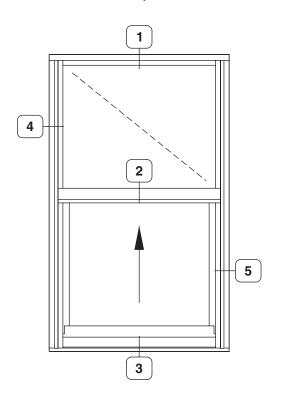


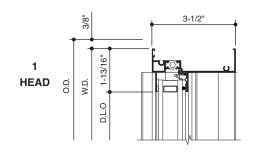
^{*} CRF and Temperature index based on high performance Low E Glass and Warm Edge Spacers.

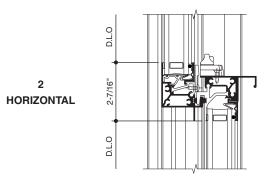
^{**} Acoustical test based on laminated glass.

SCALE: 3" = 1'-0"

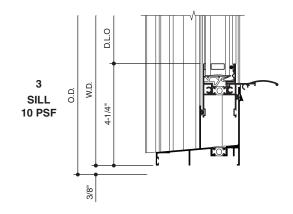
AA™3350 IsoPort™ SINGLE HUNG WINDOW Commercial Window, Class CW-PG50-H

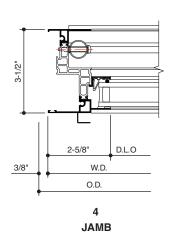


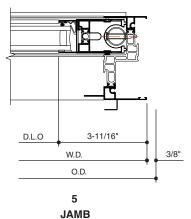




TYPICAL ELEVATION
Log onto www.kawneer.com for other configurations





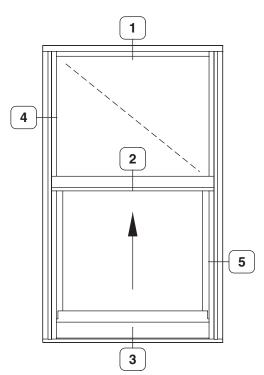


Laws and building and safety codes governing the design and use of glazed entrance, window, and cutain wail products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

SINGLE HUNG WINDOW

SCALE: 3" = 1'-0"

AA™3350 IsoPort™ SINGLE HUNG WINDOW Architectural Window, Class AW-PG50-H Class AW-PG70-H (Optional)

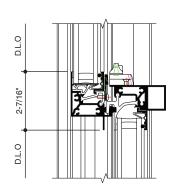


2 HORIZONTAL

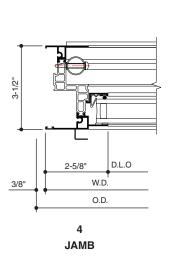
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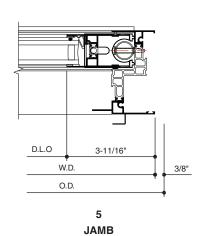
SILL

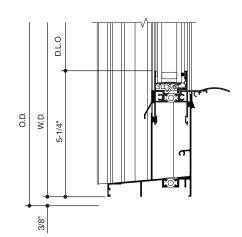
15 PSF



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



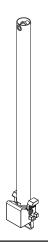






kawneer.com ADME050

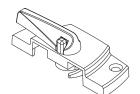
HEAVY DUTY BALANCES



A class 5 adjustable spring balance with excellent operating forces capable of balancing heavier sash weights. The balance utilizes stainless steel components and is cycle tested for longevity.

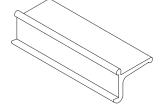
ZINC SWEEP LOCK AND KEEPER





Zinc die cast sweep locks and keepers with a durable black powder coat finish and cycle tested for longevity. Includes a push button lock feature providing added security.

AUTO LOCK



An optional black rigid PVC spring operated auto lock conveniently located under the sash lift handle. The lock automatically engages the integral sill keeper upon closing the sash.

COVERED WEEPS



A polycarbonate weep with an integral hinged cover to allow maximum drainage of infiltrating water with a positive closing cover to block drafts and insects. The weep is available in black, white and silver finishes.

SASH CAMS



Adjustable glass filled nylon cams located left and right on the sash ensure proper alignment and smooth operation.

SASH STOPS



Black PVC sash stops are inserted into the vertical jambs without exposed fasteners to prevent excessive sash travel.

WEATHERING BLOCK



Weathering blocks located left and right at the meeting rails significantly improve resistance to air and water infiltration.

KAWNEER ANALGA COMPANY

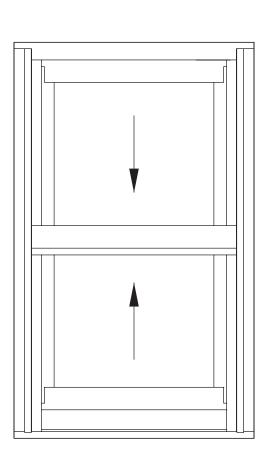
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

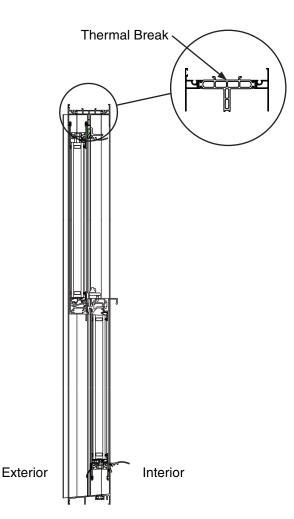
kawneer.com

EC 97911-063 DOUBLE HUNG WINDOW

Standard Features

- High Performance Commercial Window
- IsoPort[™] Thermal Break
- Screw and Spline Frame and Sash Corner Joinery
- Factory Silicone Glazed
- Interior Applied Glazing Bead
- Architectural Anodized Finishes and Applied Coatings
- Two Year Manufacturer's Warranty





Double Hung Window

For specific product applications, Consult your Kawneer representative.



DOUBLE HUNG WINDOW

CLASS and G	RADE	CLASS CW-PG50-H / AW-PG50-H			
OPTIONAL C	LASS and GRAD	CLASS AW-PG70-H (MAXIMUM SIZE 52" x 99")			
TESTING STA	ANDARD	AAMA / WDMA / CSA / 101 / I.S.2 / A440-08 (NAFS-08)			
FRAME DEPT	гн	3-1/2" Overall Frame Depth			
TYPICAL WA	LL THICKNESS	.070" Nominal			
TYPICAL MA	XIMUM SIZE	60" x 99" (AW), 56" x 91" (CW)			
TYPICAL MIN	IIMUM SIZE	20" x 34" (10 PSF Sill), 20" x 35" (15 PSF Sill)			
TYPICAL CO	NFIGURATIONS				
STANDARD INFILL OPTIONS 1"					
STANDARD H	IARDWARE	Heavy Duty Balances Zinc Die Cast Sweep Locks Sash Stops Upper Sash Auto Lock			
OPTIONAL HARDWARE Sill Auto Lock					
OTHER OPTIONS Between the Glass Muntin Grids Exterior Applied Muntin Grids Perimeters and Sills Exterior Pannings and Interior Trims Structural Mullions Vertically or Horizontally Stacked Strap Anchors Sill for 10 PSF or 15 PSF Water Performance Insect Screens Nailing Fin Flange					
	DO	UBLE HUNG WINDOW PRODUCT PERFORMANCE			
Air	Water	Design Thermal Condensation Condensation Sound			

Air Infiltration NAFS-08	Water Resistance NAFS-08	Design Load NAFS-08	Thermal Transmittance AAMA 507 NFRC 100	Condensation Resistance* AAMA 1503	Condensation Temperature Index* CSA A440.2	Sound Transmittance** ASTM E 1425 ASTM E 1332
≤ 0.30 Cfm/ft²	CW - 10 PSF AW - 15 PSF	50 PSF 70 PSF	"U" Factor 0.39 to 0.57	CRF frame - 57 CRF glass - 60		STC - 34 OITC - 29

Note: "U" Values based on computer simulations utilizing Insulating Glass, Low E Coatings and Warm Edge Spacers. See Thermal Charts for various glass types.

^{**} Acoustical test based on laminated glass.



^{*} CRF and Temperature index based on high performance Low E Glass and Warm Edge Spacers.

1

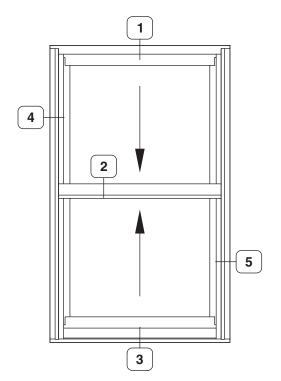
HEAD

SILL

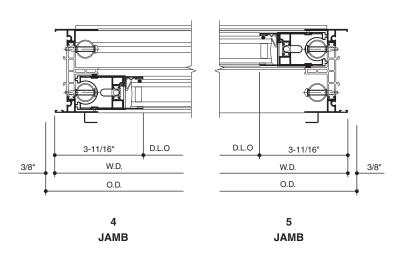
DOUBLE HUNG WINDOW EC 97911-063

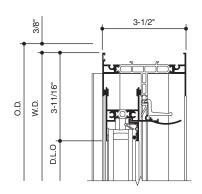
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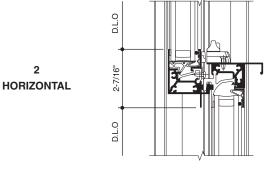
AA™3350 IsoPort™ DOUBLE HUNG WINDOW Commercial Window, Class CW-PG50-H

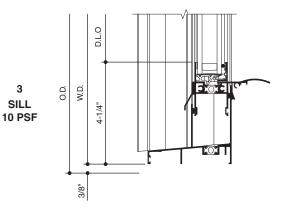


TYPICAL ELEVATION Log onto www.kawneer.com for other configurations











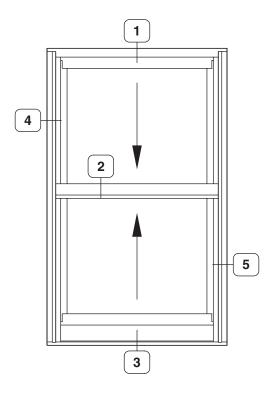
ADME050 kawneer.com

DOUBLE HUNG WINDOW

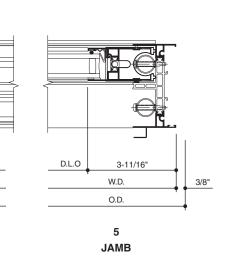
EC 97911-063

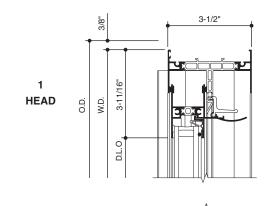
SCALE: 3" = 1'-0"

AA™3350 IsoPort™ DOUBLE HUNG WINDOW Architectural Window, Class AW-PG50-H Class AW-PG70-H (Optional)



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



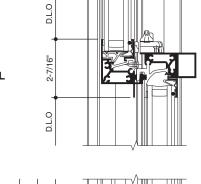


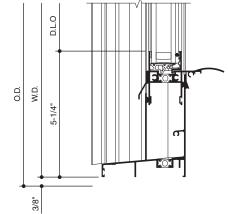


3

SILL

15 PSF





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



3/8"

3-11/16"

W.D.

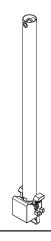
O.D.

4 **JAMB** D.L.O

governing the design and use of glazed products vary widely. Kawneer does not const, operating hardware, or glazing materi

DOUBLE HUNG WINDOW

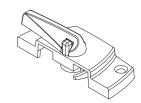
HEAVY DUTY BALANCES



A class 5 adjustable spring balance with excellent operating forces capable of balancing heavier sash weights. The balance utilizes stainless steel components and is cycle tested for longevity.

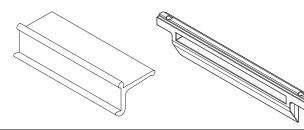
ZINC SWEEP LOCK AND KEEPER





Zinc die cast sweep locks and keepers with a durable black powder coat finish and cycle tested for longevity. Includes a push button lock feature providing added security.

AUTO LOCK AND KEEPER



A black rigid PVC spring operated auto lock located on the upper sash. The lock automatically engages the head keeper securing the upper sash in the closed position. The auto lock is an option for the lower sash.

COVERED WEEPS



A polycarbonate weep with an integral hinged cover to allow maximum drainage of infiltrating water with a positive closing cover to block drafts and insects. The weep is available in black, white and silver finishes.

SASH CAMS



Adjustable glass filled nylon cams located left and right on the sash ensure proper alignment and smooth operation.

SASH STOPS



Black PVC sash stops are inserted into the vertical jambs without exposed fasteners to prevent excessive sash travel.

WEATHERING BLOCK

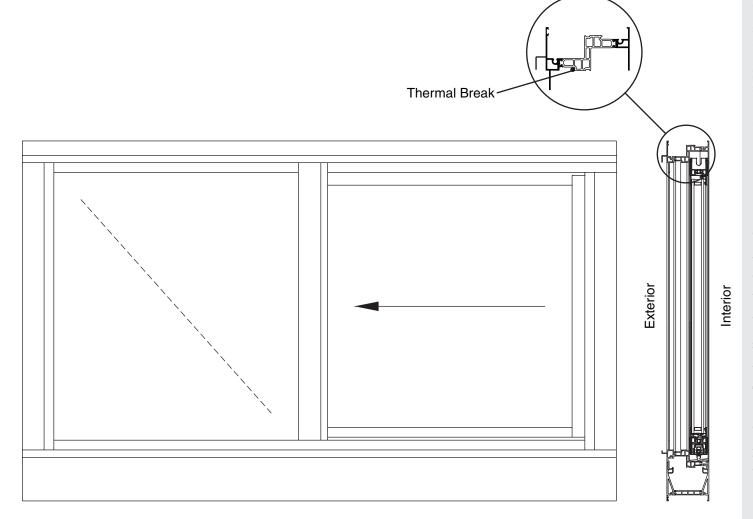


Weathering blocks located left and right at the meeting rails significantly improve resistance to air and water infiltration.



Standard Features

- High Performance Window
- IsoPort[™] Thermal Break
- Screw and Spline Frame and Sash Corner Joinery
- Factory Silicone Glazed
- Interior Applied Glazing Bead with Bulb Gasket
- Architectural Anodized Finishes and Applied Coatings
- Two Year Manufacturer's Warranty



Horizontal Sliding Window

For specific product applications, Consult your Kawneer representative.



HORIZONTAL SLIDER EC 97911-063

AA™3350 IsoPort™ Window

CLASS and G	RADE		Class CW-PG50-HS / AW-PG50-HS				
OPTIONAL CLASS and GRADE			Class AW-PG70-HS (Max Size: 99" x 71" OX)				
TESTING STA	TESTING STANDARD			WDMA / CSA 10	1 / I.S. 2 / A440-0	8 (NAFS-08)	
FRAME DEPT	Н	3	3-1/2" Overall Frame Depth				
TYPICAL WAL	L THICKNESS		.070" Nominal				
TYPICAL MAX	KIMUM SIZE	9	99" x 79" (OX,XO,XX) 148-1/2" x 79" (OXO,XOX)				
TYPICAL MIN	IMUM SIZE	3	32" x 20	" (OX,XO,XX) 48'	' x 20" (OXO,XOX)	
TYPICAL CONFIGURATIONS					+		
STANDARD INFILL OPTIONS			1"				
STANDARD HARDWARE			Composite Adjustable Tandem Roller Zinc Die Cast Sweep Lock				
OPTIONAL HA	ARDWARE	F	PVC Aut	o Lock			
OTHER OPTIONS			Exterior A Perimete Exterior I Structura Vertically		irids erior Trims	ce	
	HORIZONTAL SLIDER WINDOW PRODUCT PERFORMANCE						
Air Infiltration NAFS-08	Water Resistance NAFS-08	Design Load NAFS-08		Thermal Transmittance AAMA 507 NFRC 100	Condensation Resistance* AAMA 1503	Condensation Temperature Index* CSA A440.2	Sound Transmittance** ASTM E 1425 ASTM E 1332
≤ 0.30 Cfm/ft ²	CW - 10 PSF AW - 15 PSF	50 PSF 70 PSF		"U" Factor 0.37 to 0.54	CRF frame - 66 CRF glass - 66	I frame - 45 I glass - 62	STC - 37 OITC - 29

Note: "U" Values based on computer simulations utilizing Insulating Glass, Low E Coatings and Warm Edge Spacers. See Thermal Charts for various glass types.



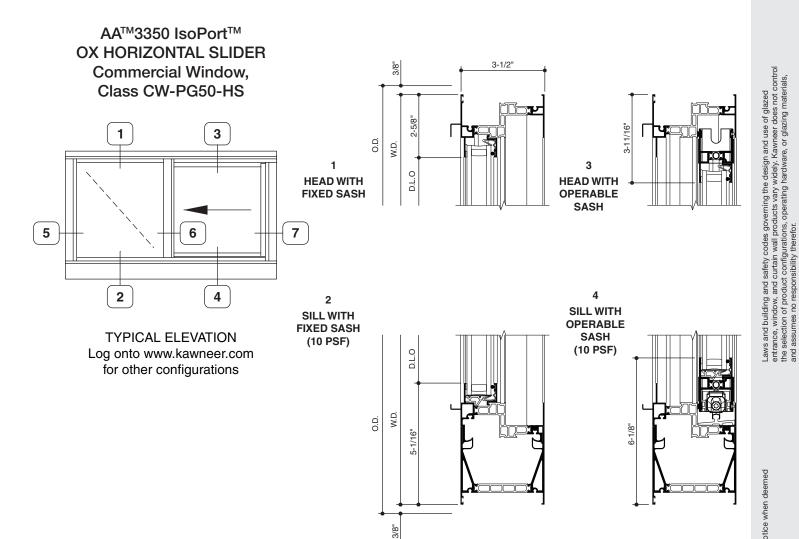
^{*} CRF and Temperature index based on high performance Low E Glass and Warm Edge Spacers.

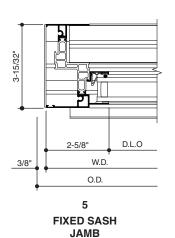
^{**} Acoustical test based on laminated glass.

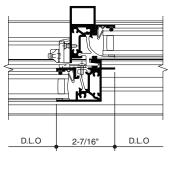
HORIZONTAL SLIDER

EC 97911-063

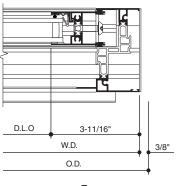
SCALE: 3" = 1'-0"







6 INTERLOCK



7 OPERABLE SASH JAMB

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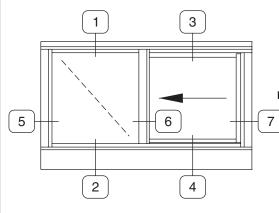
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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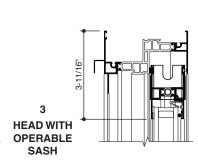
EC 97911-063 HORIZONTAL SLIDER

SCALE: 3" = 1'-0"

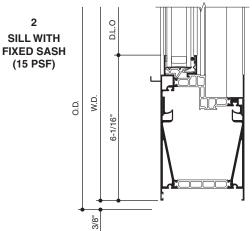
AA™3350 IsoPort™
OX HORIZONTAL SLIDER
Architectural Window,
Class AW-PG50-HS
Class AW-PG70-HS (Optional)

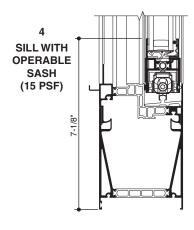


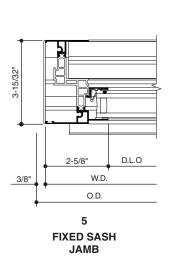
1 HEAD WITH FIXED SASH

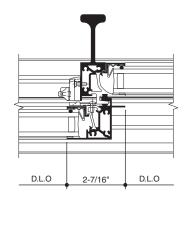


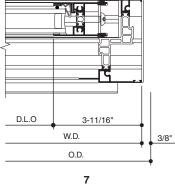
TYPICAL ELEVATION Log onto www.kawneer.com for other configurations











6 INTERLOCK

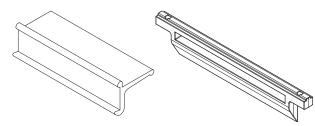
7 OPERABLE SASH JAMB





Glass filled nylon housing, die cast zamak roller support, precision sealed ball bearing rollers with nylon tires.

PVC AUTO LOCK AND KEEPER



A black rigid PVC, spring operated auto lock, located on the jamb. The lock automatically engages the jamb keeper securing the sash in the closed position. The auto lock is standard for the exterior sash of the XX configuration only.

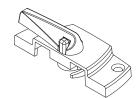
COVERED WEEP



A polycarbonate weep with an integral hinged cover to allow maximum drainage of infiltrating water with a positive closing cover to block drafts and insects. The weep is available in black, white and silver finishes.

ZINC SWEEP LOCK AND KEEPER





Zinc die cast sweep locks and keepers with a durable black powder coat finish and cycle tested for longevity. Includes a push button lock feature providing added security.

SASH STOPS



Black PVC sash stops are inserted into the head without exposed fasteners to prevent excessive sash travel.

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

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

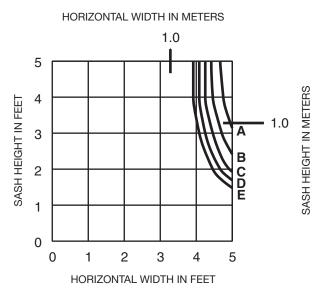


EC 97911-063 WIND LOAD CHARTS

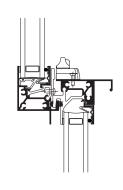
WIND LOAD CHARTS:

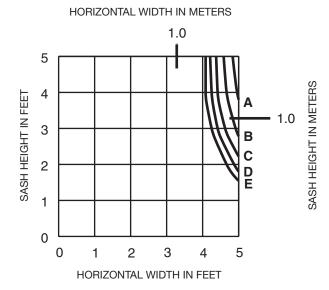
THESE CHARTS ARE BASED ON A MAXIMUM DEFLECTION OF L\175 AND\OR A MAXIMUM STRESS OF 15,152 psi (104 MPa). If the design wind load is determined through the analytical procedures of ASCE/SEI 7-10 or earlier editions, the load shall be based on the nominal loads used in allowable stress design. A 4/3 increase in allowable stress has not been used to develop these curves.

> A = 40 PSF (1915)B = 50 PSF (2394) C = 60 PSF (2873) D = 70 PSF (3352)E = 80 PSF (3830)

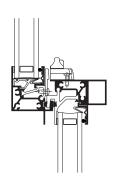


SINGLE HUNG INTERMEDIATE **CW-RATED**





SINGLE HUNG INTERMEDIATE AW-RATED





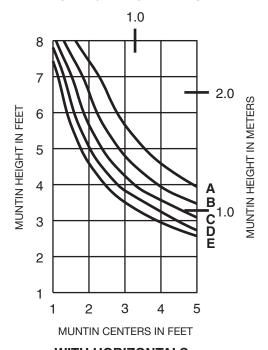
WIND LOAD CHARTS

WIND LOAD CHARTS:

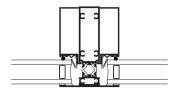
THESE CHARTS ARE BASED ON A MAXIMUM DEFLECTION OF L\175 AND\OR A MAXIMUM STRESS OF 15,152 psi (104 MPa). If the design wind load is determined through the analytical procedures of ASCE/SEI 7-10 or earlier editions, the load shall be based on the nominal loads used in allowable stress design. A 4/3 increase in allowable stress has not been used to develop these curves.

A = 40 PSF (1915) B = 50 PSF (2394) C = 60 PSF (2873) D = 70 PSF (3352) E = 80 PSF (3830)

MUNTIN CENTERS IN METERS

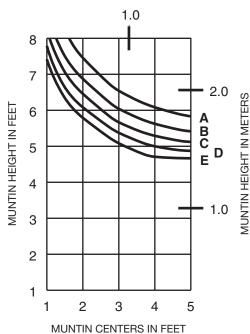


TRUE MUNTIN FOR FIXED WINDOW

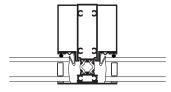


WITH HORIZONTALS

MUNTIN CENTERS IN METERS



TRUE MUNTIN FOR FIXED WINDOW



WITHOUT HORIZONTALS



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

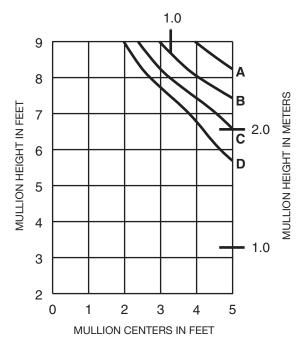
© Kawneer Company, Inc., 2014

EC 97911-063 WIND LOAD CHARTS

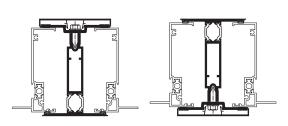
WIND LOAD CHARTS:

THESE CHARTS ARE BASED ON A MAXIMUM DEFLECTION OF L\175 AND\OR A MAXIMUM STRESS OF 15,152 psi (104 MPa). If the design wind load is determined through the analytical procedures of ASCE/SEI 7-10 or earlier editions, the load shall be based on the nominal loads used in allowable stress design. A 4/3 increase in allowable stress has not been used to develop these curves.

MULLION CENTERS IN METERS

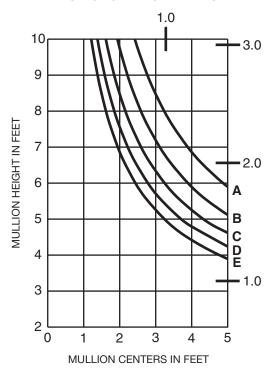


SHALLOW THREE PIECE MULLION

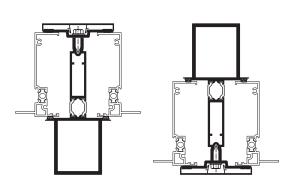


A = 30 PSF (1436) B = 40 PSF (1915) C = 50 PSF (2394) D = 60 PSF (2873)

MULLION CENTERS IN METERS



DEEP THREE PIECE MULLION



A = 40 PSF (1915) B = 50 PSF (2394) C = 60 PSF (2873) D = 70 PSF (3352) E = 80 PSF (3830)



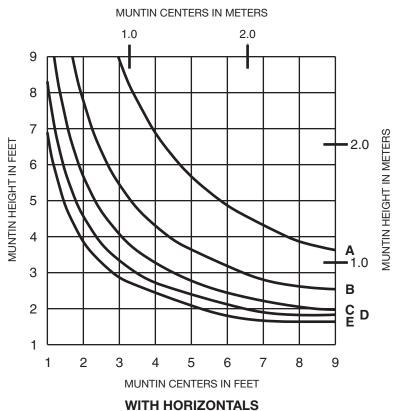
kawneer.com

MULLION HEIGHT IN METERS

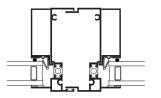
WIND LOAD CHARTS

WIND LOAD CHARTS:

THESE CHARTS ARE BASED ON A MAXIMUM DEFLECTION OF L\175 AND\OR A MAXIMUM STRESS OF 15,152 psi (104 MPa). If the design wind load is determined through the analytical procedures of ASCE/SEI 7-10 or earlier editions, the load shall be based on the nominal loads used in allowable stress design. A 4/3 increase in allowable stress has not been used to develop these curves.



VERTICAL STACK JAMBS FIXED / FIXED



A = 20 PSF (958)

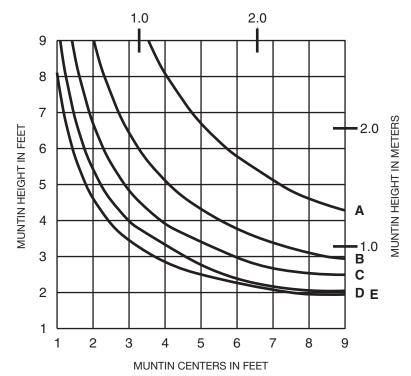
B = 35 PSF (1676)

C = 50 PSF (2394)

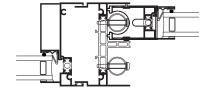
D = 65 PSF (3112)

E = 80 PSF (3830)

MUNTIN CENTERS IN METERS



VERTICAL STACK JAMBS FIXED / DOUBLE HUNG



A = 20 PSF (958)

B = 35 PSF (1676)

C = 50 PSF (2394)

D = 65 PSF (3112)

E = 80 PSF (3830)

WITH HORIZONTALS



ADME050

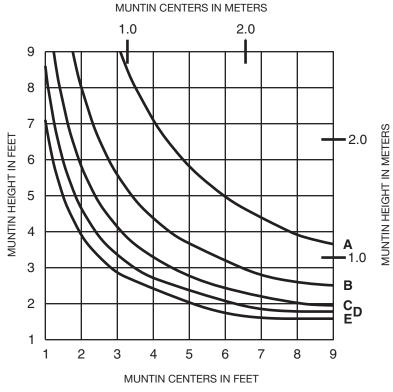
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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

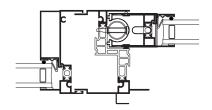
EC 97911-063 WIND LOAD CHARTS

WIND LOAD CHARTS:

THESE CHARTS ARE BASED ON A MAXIMUM DEFLECTION OF L\175 AND\OR A MAXIMUM STRESS OF 15,152 psi (104 MPa). If the design wind load is determined through the analytical procedures of ASCE/SEI 7-10 or earlier editions, the load shall be based on the nominal loads used in allowable stress design. A 4/3 increase in allowable stress has not been used to develop these curves.



VERTICAL STACK JAMBS FIXED / SINGLE HUNG

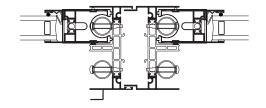


A = 20 PSF (958)B = 35 PSF (1676) C = 50 PSF (2394)D = 65 PSF (3112)E = 80 PSF (3830)

WITH HORIZONTALS

MUNTIN CENTERS IN METERS 1.0 2.0 9 8 7 **MUNTIN HEIGHT IN METERS** 2.0 MUNTIN HEIGHT IN FEET 6 5 4 3 В 2 ED 1 1 2 3 4 5 6 7 8 9

VERTICAL STACK JAMBS DOUBLE HUNG / DOUBLE HUNG



A = 20 PSF (958)B = 35 PSF (1676) C = 50 PSF (2394) D = 65 PSF (3112)E = 80 PSF (3830)

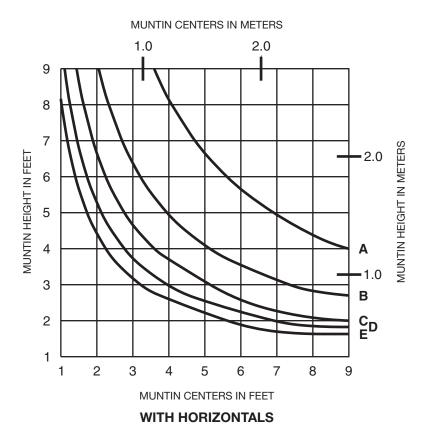


ADME050 kawneer.com

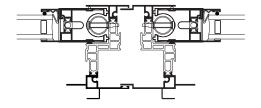
MUNTIN CENTERS IN FEET WITH HORIZONTALS WIND LOAD CHARTS EC 97911-063

WIND LOAD CHARTS:

THESE CHARTS ARE BASED ON A MAXIMUM DEFLECTION OF L\175 AND\OR A MAXIMUM STRESS OF 15,152 psi (104 MPa). If the design wind load is determined through the analytical procedures of ASCE/SEI 7-10 or earlier editions, the load shall be based on the nominal loads used in allowable stress design. A 4/3 increase in allowable stress has not been used to develop these curves.



VERTICAL STACK JAMBS SINGLE HUNG / SINGLE HUNG



A = 20 PSF (958)

B = 35 PSF (1676)

C = 50 PSF (2394)

D = 65 PSF (3112)

E = 80 PSF (3830)

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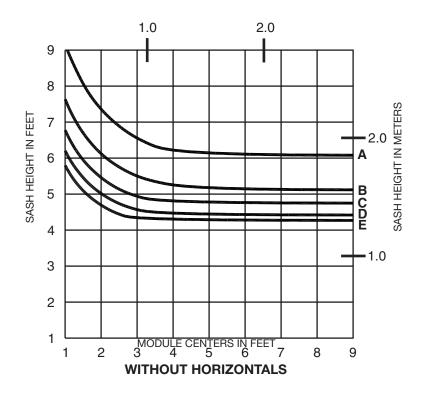
EC 97911-063

WIND LOAD CHARTS

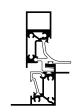
WIND LOAD CHARTS:

THESE CHARTS ARE BASED ON A MAXIMUM DEFLECTION OF L\175 AND\OR A MAXIMUM STRESS OF 15,152 psi (104 MPa). If the design wind load is determined through the analytical procedures of ASCE/SEI 7-10 or earlier editions, the load shall be based on the nominal loads used in allowable stress design. A 4/3 increase in allowable stress has not been used to develop these curves.

MODULE CENTERS IN METERS



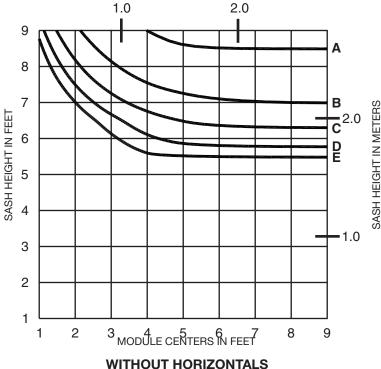
LOCK STILE HORIZONTAL SLIDER



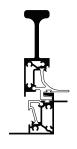
A = 40 PSF (1915)B = 50 PSF (2394)C = 60 PSF (2873)

D = 70 PSF (3352) E = 80 PSF (3830)

MODULE CENTERS IN METERS



LOCK STILE HORIZONTAL SLIDER





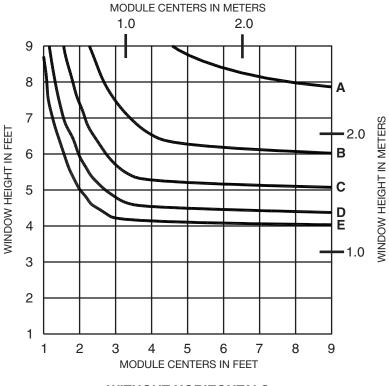
ADME050

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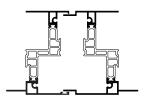
WIND LOAD CHARTS

WIND LOAD CHARTS:

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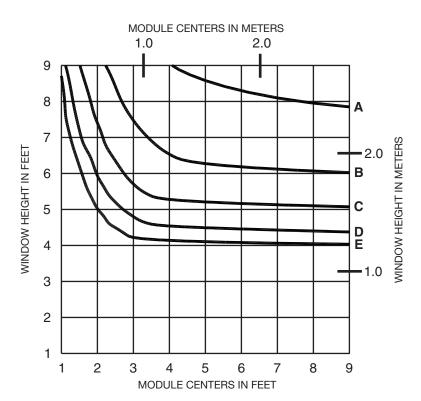


VERTICAL STACK JAMBS HORIZONTAL SLIDER

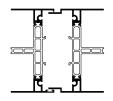


WITHOUT HORIZONTALS

A = 20 PSF (958)B = 35 PSF (1676) C = 50 PSF (2394)D = 65 PSF (3112) E = 80 PSF (3830)



"XX" VERTICAL STACK JAMBS HORIZONTAL SLIDER



WITHOUT HORIZONTALS

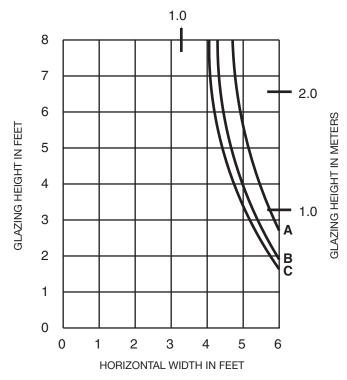


EC 97911-063 **DEADLOAD CHARTS**

DEADLOAD CHARTS:

HORIZONTAL DEADLOAD LIMITATIONS ARE BASED UPON 1/8" (3.2) MAXIMUM ALLOWABLE DEFLECTION AT THE CENTER OF AN INTERMEDIATE HORIZONTAL MEMBER. THE ACCOMPANYING CHARTS ARE CALCULATED FOR THE GLASS TYPES INDICATED SUPPORTED ON TWO SETTING BLOCKS AT EIGHT POINT LOADING BUT NO MORE THAN 6" FROM THE EDGE OF GLASS.

HORIZONTAL WIDTH IN METERS



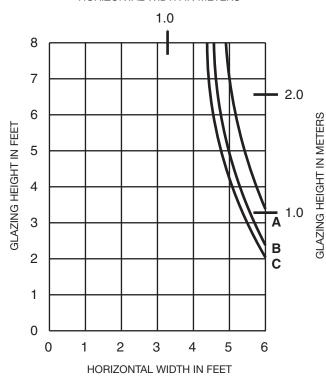
SINGLE HUNG OR DOUBLE HUNG **HORIZONTAL**



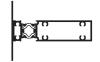
GLASS TYPE:

A = 1/8" - 3/4" A.S. - 1/8" B = 3/16" - 5/8" A.S. - 3/16" C = 1/4" - 1/2" A.S. - 1/4"

HORIZONTAL WIDTH IN METERS



TRUE HORIZONTAL MUNTIN FOR FIXED WINDOW



GLASS TYPE:

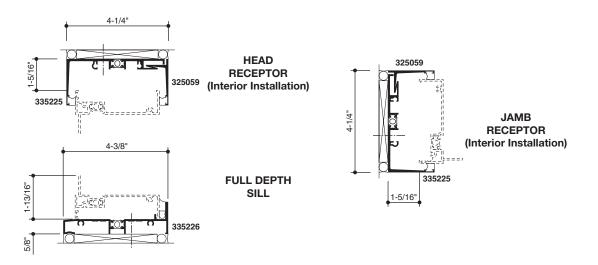
A = 1/8" - 3/4" A.S. - 1/8" B = 3/16" - 5/8" A.S. - 3/16" C = 1/4" - 1/2" A.S. - 1/4"



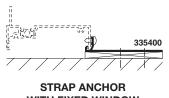
SCALE: 3" = 1'-0"

RECEPTORS, SUB SILLS AND ANCHORING

TYPICAL RECEPTOR SYSTEM



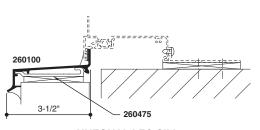
ANCHORING



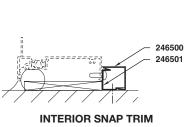
WITH FIXED WINDOW



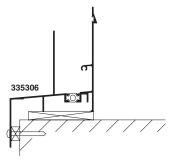
STRAP ANCHOR WITH HUNG WINDOW



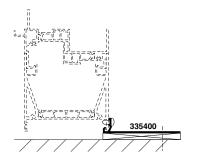
UNEQUAL LEG SILL



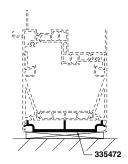
ANCHORING



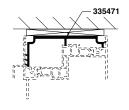
FLANGE / NAILING FIN



STRAP ANCHOR WITH **HORIZONTAL SLIDER**



PVC PERIMETER (Head and Jamb of XX Slider and Female Stack Jambs of **Double Hung similar)**

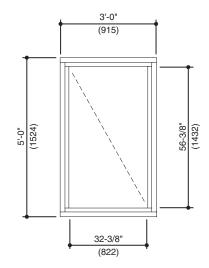


PVC PERIMETER (Typical at Head and Jamb of XO/OX/XOX/OXO Slider and Female Stack Jambs of Single Hung similar)



-063 FIXED WINDOW THERMAL CHARTS

Project Specific U-Factor Example Calculation



Example Glass U-Factor = 0.42 Btu/hr • ft² • °F

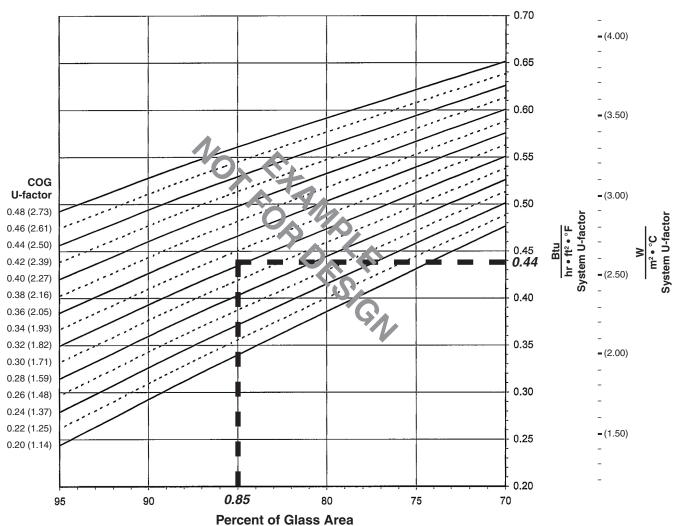
Total Daylight Opening = 32-3/8" • 56-3/8" = 12.67ft²

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

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

 $= (12.67 \div 15)100 = 85\%$

System U-factor vs Percent of Glass Area



Based on 85% glass and center of glass (COG) U-factor of 0.42 System U-factor is equal to 0.44 Btu/hr \bullet ft² \bullet °F

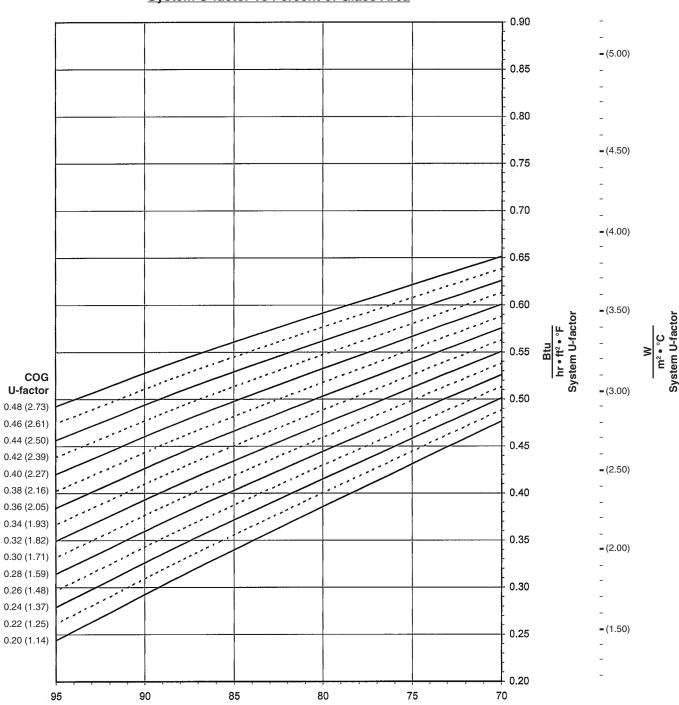


AA™3350 IsoPort™ FIXED WINDOW

Note:

Values in parentheses are metric. COG = Center of Glass. Charts are generated per AMMA 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:

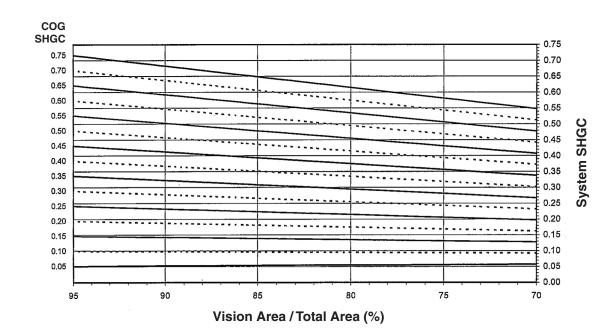
For glass values that are not listed, linear interpolation is permitted.

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

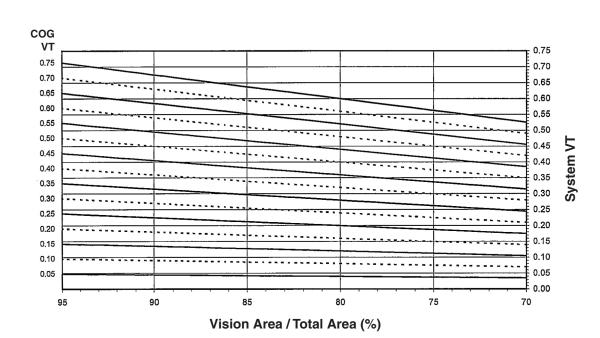


AA™3350 IsoPort™ FIXED WINDOW

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



System Visible Transmittance (VT) vs Percent of Vision Area





AA™3350 IsoPort™ FIXED WINDOW

Thermal Transmittance¹ (BTU/hr • ft ² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.56
0.46	0.54
0.44	0.52
0.42	0.51
0.40	0.49
0.38	0.48
0.36	0.46
0.34	0.44
0.32	0.43
0.30	0.41
0.28	0.40
0.26	0.38
0.24	0.36
0.22	0.35
0.20	0.33

SHGC Matrix ²

SHGC Matrix 2						
Glass SHGC ³	Overall Glass U-Factor 4					
0.75	0.65					
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	0.23					
0.20	0.18					
0.15	0.14					
0.10	0.10					
0.05	0.05					

Visible Transmittance ²

Glass VT ³	Overall VT 4
0.75	0.64
0.70	0.60
0.65	0.56
0.60	0.51
0.55	0.47
0.50	0.43
0.45	0.39
0.40	0.34
0.35	0.30
0.30	0.26
0.25	0.21
0.20	0.17
0.15	0.13
0.10	0.09
0.05	0.04

 $\textbf{NOTE:} \ \ \text{For glass values that are not listed, linear interpolation is permitted.}$

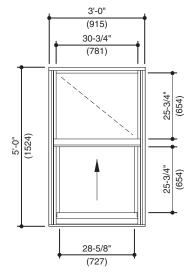
- 1. U-Factors are determined in accordance with NFRC 100.
- 2. SHGC and VT values are determined in accordance with NFRC 200.
- 3. Glass properties are based on center of glass values and are obtained from your glass supplier.
- 4. Overall U-Factor, SHGC, and VT Matricies are based on the standard NFRC specimen size of 1200mm wide by 1500mm high (47-1/4" by 59-1/16").



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

EC 97911-063 SINGLE HUNG 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

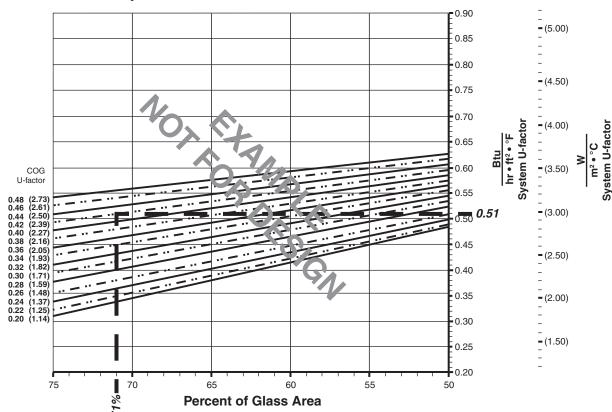
Total Daylight Opening = $(30-3/4" \cdot 25-3/4") + (28-5/8" \cdot 25-3/4") = 10.62 \text{ ft}^2$

Total Projected Area = 3'-0" • 5'-0" = 15 ft^2

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

 $= (10.62 \div 15)100 = 71\%$

System U-factor vs Percent of Glass Area



Based on 71% glass and center of glass (COG) U-factor of 0.42 System U-factor is equal to 0.51 Btu/hr \bullet ft² \bullet °F



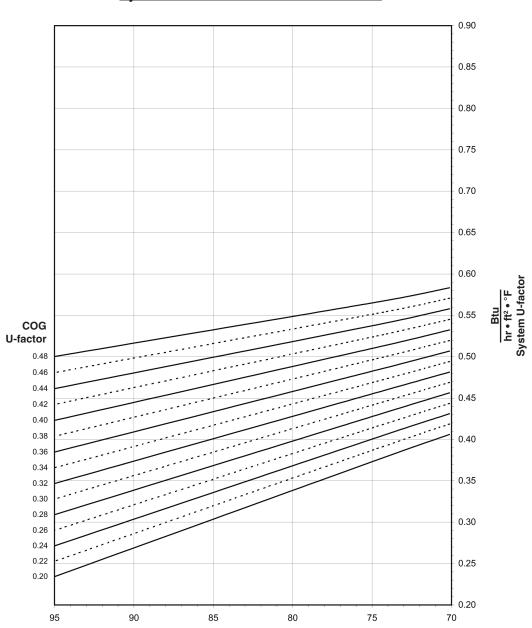
SINGLE HUNG THERMAL CHARTS

AA™3350 IsoPort™ SINGLE HUNG WINDOW

Note:

Values in parentheses are metric. COG = Center of Glass. Charts are generated per AMMA 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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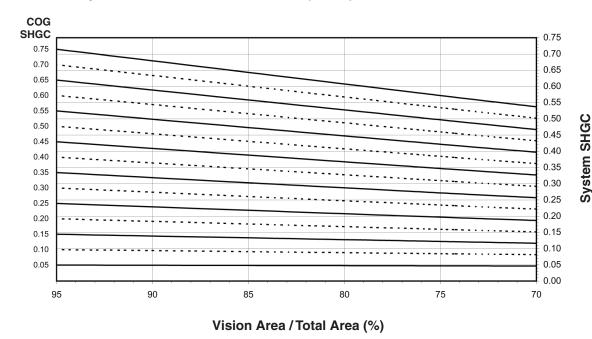
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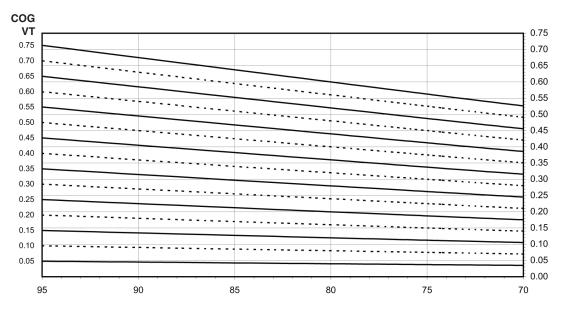
SINGLE HUNG THERMAL CHARTS

AA™3350 IsoPort™ SINGLE HUNG WINDOW

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



System Visible Transmittance (VT) vs Percent of Vision Area



Vision Area / Total Area (%)



System VT

38

AA™3350 IsoPort™ SINGLE HUNG WINDOW

	Glass U-Factor ³	Overall U-Factor ⁴
	0.48	0.57
	0.46	0.55
	0.44	0.54
	0.42	0.53
ĕ	0.40	0.51
With Aluminum Spacer	0.38	0.50
ا <u>د</u> ا	0.36	0.49
Jir 🗆	0.34	0.47
	0.32	0.46
th A	0.30	0.45
×	0.28	0.43
	0.26	0.42
	0.24	0.40
	0.22	0.39
	0.20	0.38
	0.38	0.47
	0.36	0.45
ace	0.34	0.44
S e	0.32	0.42
gp	0.30	0.41
# [0.28	0.40
Wai	0.26	0.39
With Warm Edge Spacer	0.24	0.37
> [0.22	0.35
	0.20	0.34



AA™3350 IsoPort™ SINGLE HUNG WINDOW

SHGC Matrix ²

OTTAG WALLIX		
Glass SHGC ³	Overall Glass U-Factor 4	
0.75	0.57	
0.70	0.53	
0.65	0.49	
0.60	0.46	
0.55	0.42	
0.50	0.38	
0.45	0.34	
0.40	0.31	
0.35	0.27	
0.30	0.23	
0.25	0.20	
0.20	0.16	
0.15	0.12	
0.10	0.08	
0.05	0.05	
NOTE: For also values that we not listed linear intervalstics is now		

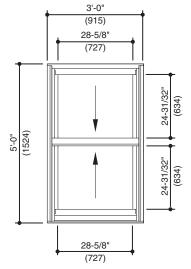
Visible Transmittance ²

Glass VT ³	Overall VT 4
0.75	0.56
0.70	0.52
0.65	0.48
0.60	0.45
0.55	0.41
0.50	0.37
0.45	0.33
0.40	0.30
0.35	0.26
0.30	0.22
0.25	0.19
0.20	0.15
0.15	0.11
0.10	0.07
0.05	0.04

- 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.
- Overall U-Factor, SHGC, and VT Matricies are based on the standard NFRC specimen size of 1200mm wide by 1500mm high (47-1/4" by 59-1/16").



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

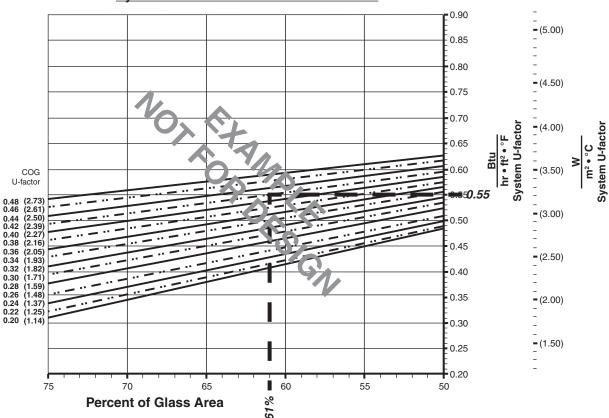
Total Daylight Opening = (28-5/8" • 24-31/32") + (28-5/8" • 24-31/32") = 9.21 ft²

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

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

 $= (9.21 \div 15)100 = 61\%$

System U-factor vs Percent of Glass Area



Based on 61% glass and center of glass (COG) U-factor of 0.42 System U-factor is equal to 0.55 Btu/hr \bullet ft² \bullet °F



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DOUBLE HUNG THERMAL CHARTS

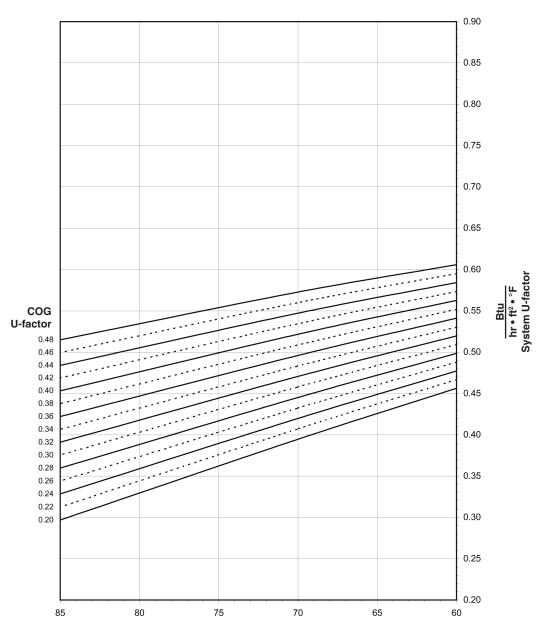
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AA™3350 IsoPort™ DOUBLE HUNG WINDOW

Note:

Values in parentheses are metric. COG = Center of Glass. Charts are generated per AMMA 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:

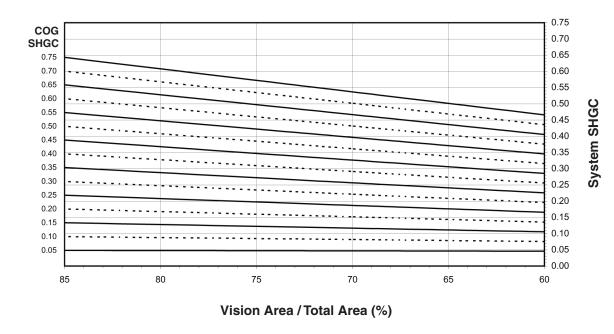
For glass values that are not listed, linear interpolation is permitted. Glass properties are based on center of glass values and are obtained from your glass supplier.



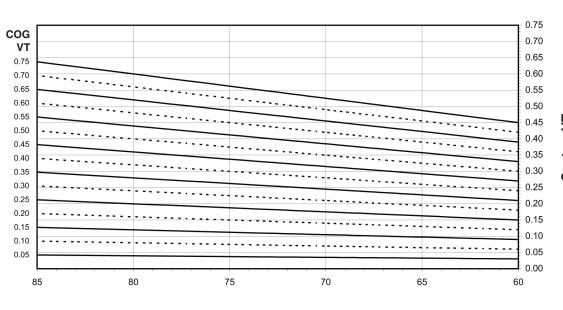
42

AA™3350 IsoPort™ DOUBLE HUNG WINDOW

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



System Visible Transmittance (VT) vs Percent of Vision Area



Vision Area / Total Area (%)



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

AA™3350 IsoPort™ DOUBLE HUNG WINDOW

	Glass U-Factor ³	Overall U-Factor 4
	0.48	0.57
	0.46	0.56
	0.44	0.55
	0.42	0.53
ĕ	0.40	0.52
pac	0.38	0.51
With Aluminum Spacer	0.36	0.50
Jie 🗆	0.34	0.48
	0.32	0.47
‡ L	0.30	0.46
Ĭ	0.28	0.44
	0.26	0.43
	0.24	0.42
	0.22	0.41
	0.20	0.39
	0.38	0.48
<u></u>	0.36	0.46
] ace	0.34	0.45
Se	0.32	0.44
b D D	0.30	0.42
ا ق	0.28	0.41
With Warm Edge Spacer	0.26	0.40
Vith	0.24	0.38
> [0.22	0.37
	0.20	0.36



AA™3350 IsoPort™ DOUBLE HUNG WINDOW

SHGC Matrix ²

Olido Matrix		
Glass SHGC ³	Overall Glass U-Factor 4	
0.75	0.54	
0.70	0.50	
0.65	0.47	
0.60	0.43	
0.55	0.40	
0.50	0.39	
0.45	0.33	
0.40	0.29	
0.35	0.26	
0.30	0.22	
0.25	0.19	
0.20	0.15	
0.15	0.12	
0.10	0.08	
0.05	0.05	

Visible Transmittance ²

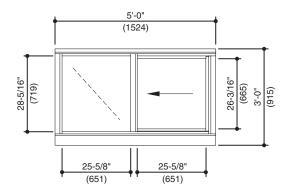
Glass VT ³	Overall VT ⁴
0.75	0.53
0.70	0.49
0.65	0.46
0.60	0.42
0.55	0.39
0.50	0.35
0.45	0.32
0.40	0.28
0.35	0.25
0.30	0.21
0.25	0.18
0.20	0.14
0.15	0.11
0.10	0.07
0.05	0.04

- 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.
- Overall U-Factor, SHGC, and VT Matricies are based on the standard NFRC specimen size of 1200mm wide by 1500mm high (47-1/4" by 59-1/16").



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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

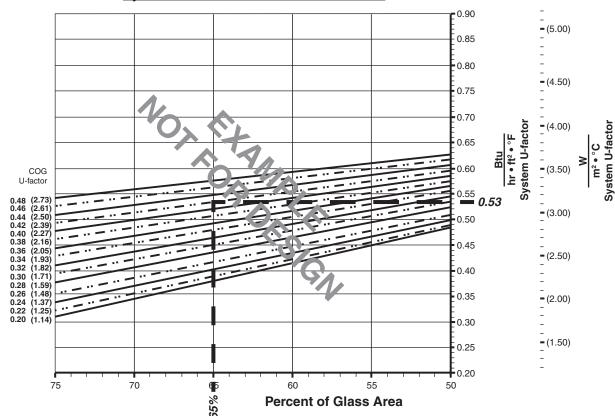
Total Daylight Opening = $(25-5/8" \cdot 28-5/16") + (25-5/8" \cdot 26-3/16") = 9.70 \text{ ft}^2$

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

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

 $= (9.70 \div 15)100 = 65\%$

System U-factor vs Percent of Glass Area



Based on 65% glass and center of glass (COG) U-factor of 0.42 System U-factor is equal to 0.53 Btu/hr • ft² • °F



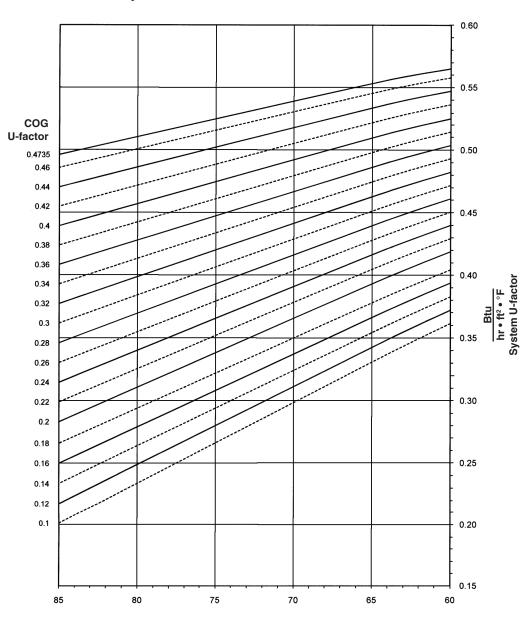
OX HORIZONTAL SLIDER THERMAL CHARTS

AA™3350 IsoPort™ OX HORIZONTAL SLIDER WINDOW

Note:

Values in parentheses are metric. COG = Center of Glass. Charts are generated per AMMA 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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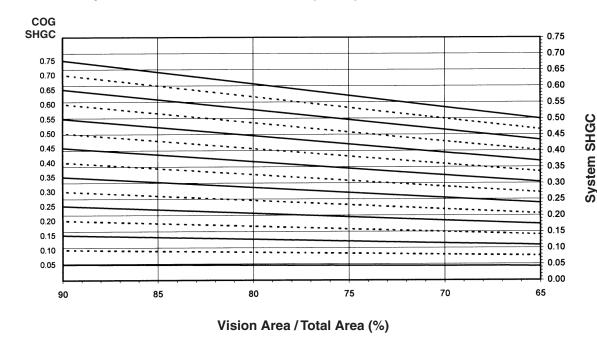
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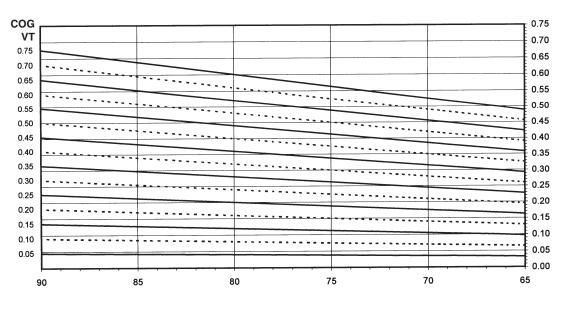
OX HORIZONTAL SLIDER THERMAL CHARTS

AA™3350 IsoPort™ OX HORIZONTAL SLIDER WINDOW

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



System Visible Transmittance (VT) vs Percent of Vision Area



Vision Area / Total Area (%)



System VT

AA™3350 IsoPort™ OX HORIZONTAL SLIDER WINDOW

	Glass U-Factor ³	Overall U-Factor 4
	0.47	0.54
	0.46	0.53
	0.44	0.52
	0.42	0.50
	0.40	0.49
	0.38	0.48
cer	0.36	0.47
With Aluminum Spacer	0.34	0.46
mn (0.32	0.44
nin	0.30	0.43
Alur	0.28	0.42
ith,	0.26	0.41
>	0.24	0.39
	0.22	0.38
	0.20	0.37
	0.18	0.35
	0.16	0.34
	0.14	0.33
	0.12	0.32
	0.10	0.30



AA™3350 IsoPort™ OX HORIZONTAL SLIDER WINDOW

SHGC Matrix ²

OTTAG WALLIX		
Glass SHGC ³	Overall Glass U-Factor 4	
0.75	0.53	
0.70	0.50	
0.65	0.46	
0.60	0.43	
0.55	0.39	
0.50	0.36	
0.45	0.32	
0.40	0.29	
0.35	0.25	
0.30	0.22	
0.25	0.18	
0.20	0.15	
0.15	0.11	
0.10	0.08	
0.05	0.04	
	0.04	

Visible Transmittance 2

Glass VT ³	Overall VT 4
0.75	0.52
0.70	0.49
0.65	0.45
0.60	0.42
0.55	0.38
0.50	0.35
0.45	0.31
0.40	0.28
0.35	0.24
0.30	0.21
0.25	0.17
0.20	0.14
0.15	0.10
0.10	0.07
0.05	0.03

- 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.
- Overall U-Factor, SHGC, and VT Matricies are based on the standard NFRC specimen size of 1500mm wide by 1200mm high (59-1/16" by 47-1/4").

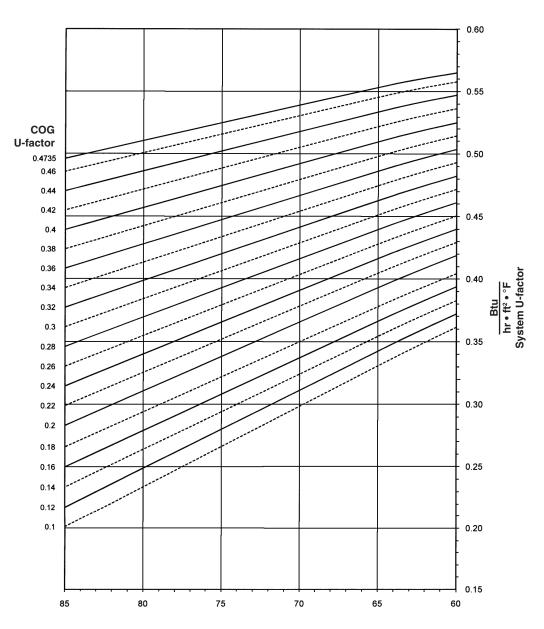


AA™3350 IsoPort™ XX HORIZONTAL SLIDER WINDOW

Note:

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



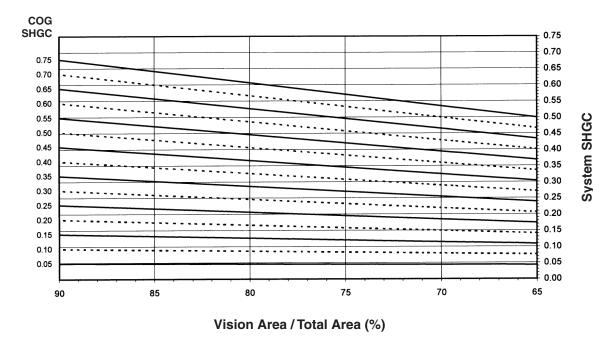
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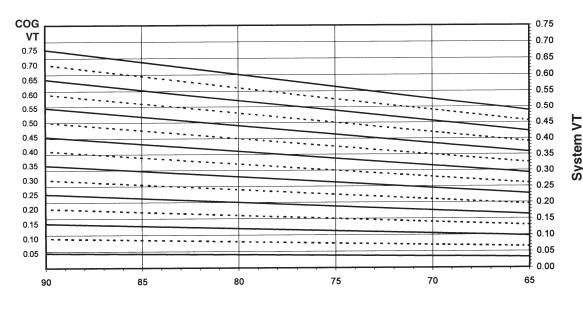
XX HORIZONTAL SLIDER THERMAL CHARTS

AA™3350 IsoPort™ XX HORIZONTAL SLIDER WINDOW

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



System Visible Transmittance (VT) vs Percent of Vision Area



Vision Area / Total Area (%)



AA™3350 IsoPort™ XX HORIZONTAL SLIDER WINDOW

	Glass U-Factor ³	Overall U-Factor 4
	0.47	0.56
	0.46	0.55
	0.44	0.54
	0.42	0.52
	0.40	0.51
	0.38	0.50
cer	0.36	0.49
With Aluminum Spacer	0.34	0.48
E E	0.32	0.47
nin	0.30	0.45
Alur	0.28	0.44
ith /	0.26	0.43
>	0.24	0.42
	0.22	0.41
	0.20	0.40
	0.18	0.38
	0.16	0.37
	0.14	0.36
	0.12	0.35
	0.10	0.34



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XX HORIZONTAL SLIDER THERMAL PERFORMANCE MATRIX (NFRC SIZE)

AA™3350 IsoPort™ XX HORIZONTAL SLIDER WINDOW

SHGC Matrix²

SHGC Watrix		
Glass SHGC ³	Overall Glass U-Factor 4	
0.75	0.51	
0.70	0.47	
0.65	0.44	
0.60	0.41	
0.55	0.37	
0.50	0.34	
0.45	0.31	
0.40	0.28	
0.35	0.24	
0.30	0.21	
0.25	0.18	
0.20	0.14	
0.15	0.11	
0.10	0.08	
0.05	0.04	
NOTE: For glass values that are not listed, linear interpolation is norm		

Visible Transmittance ²

Glass VT ³	Overall VT 4
0.75	0.50
0.70	0.46
0.65	0.43
0.60	0.40
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	0.13
0.15	0.10
0.10	0.07
0.05	0.03

- 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 1500mm wide by 1200mm high (59-1/16" by 47-1/4").



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