

NX-380 FIXED WINDOW 3-6

NX-350 PROJECT-OUT WINDOW 7-10

NX-310 OUTSWING CASEMENT WINDOW 11-14

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THERMAL CHARTS 22-31

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.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
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Metric (SI) conversion figures are included throughout these details for reference. Numbers in parentheses () are millimeters unless otherwise noted.

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

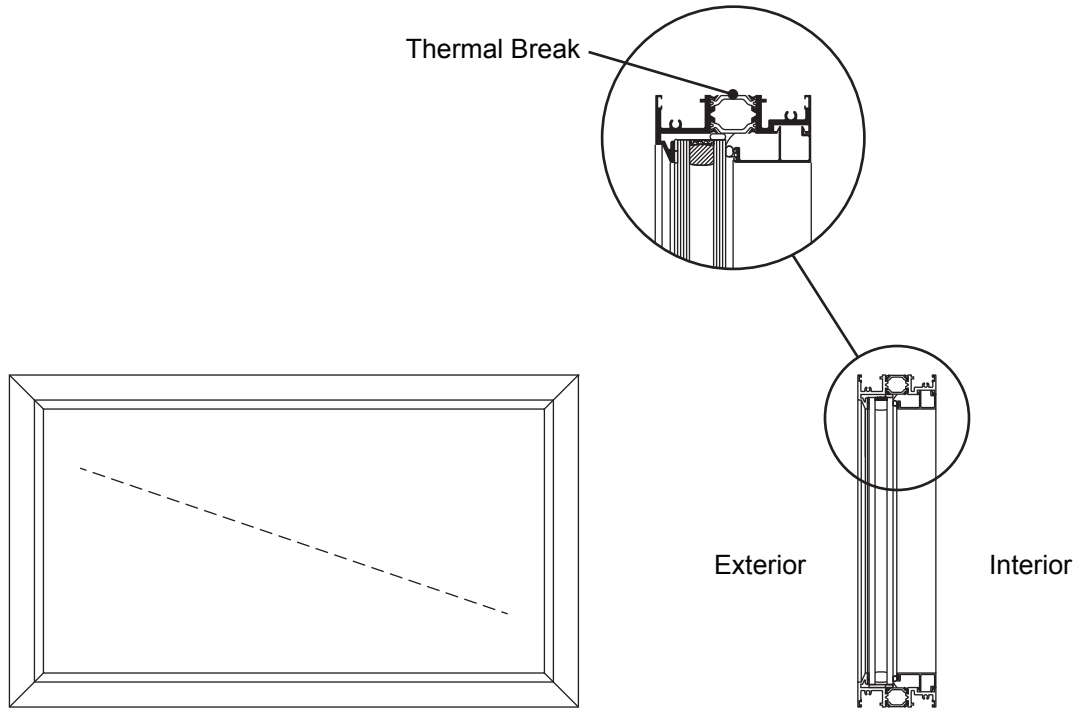
- m – meter
- cm – centimeter
- mm – millimeter
- s – second
- Pa – pascal
- MPa – megapascal

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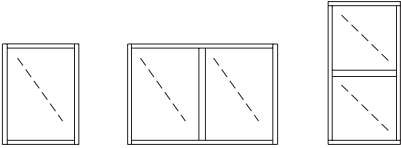
Features

- Architectural Grade Window
- Tested to US and Canadian Standards
- Polyamide Thermal Break
- Tubular Profiles
- Screw and Spline Frame Corner Joinery
- Factory Silicone Glazed
- Interior Applied Glazing Bead
- Architectural Anodized Finishes and Applied Coatings
- Interior and Exterior Dual Finish Options
- Two Year Manufacture's Warranty



NX-380 Fixed Window

For specific product applications,
consult your Kawneer representative.

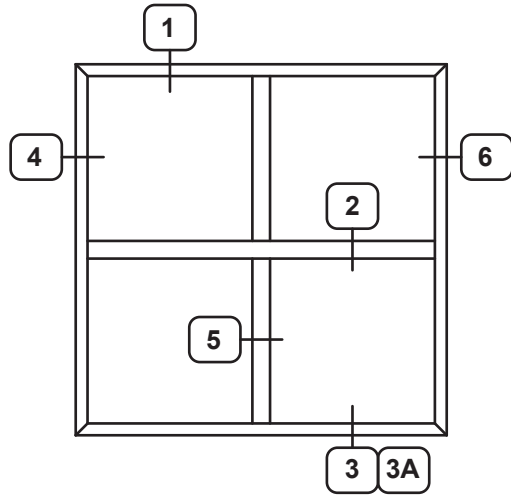
CLASS and GRADE	Architectural Class AW-PG90-FW
TESTING STANDARD	AAMA / WDMA / CSA / 101 / I.S.2 / A440 (NAFS)
FRAME DEPTH	3-1/4" Overall Frame Depth
TYPICAL WALL THICKNESS	.125" Nominal Frame
TYPICAL MAXIMUM SIZE	60" x 99"
TYPICAL MINIMUM SIZE	17" x 17"
TYPICAL CONFIGURATIONS	
INFILL OPTIONS	1"
STANDARD HARDWARE	Not Applicable
OPTIONAL HARDWARE	Not Applicable
OTHER OPTIONS	Structural Mullions Vertically or Horizontally Stacked Receptor and Sub Sill Panning Exterior or Interior Muntins

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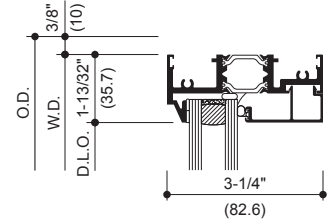
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Additional information and CAD details are available at www.kawneer.com
(Nominal Dimensions Shown)

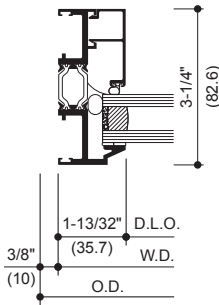
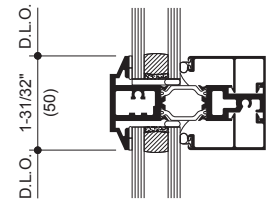


TYPICAL ELEVATION

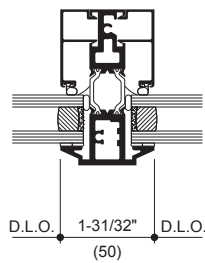
1
HEAD



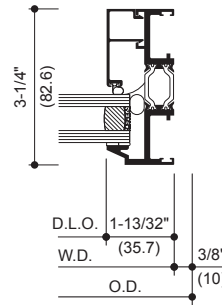
2
HORIZONTAL



4
JAMB

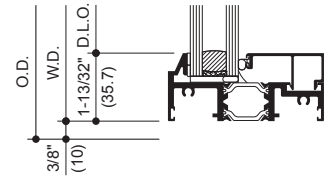


5
VERTICAL

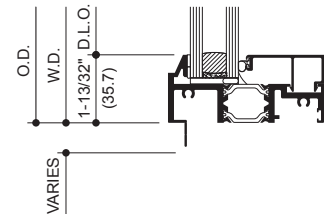


6
JAMB

3
SILL



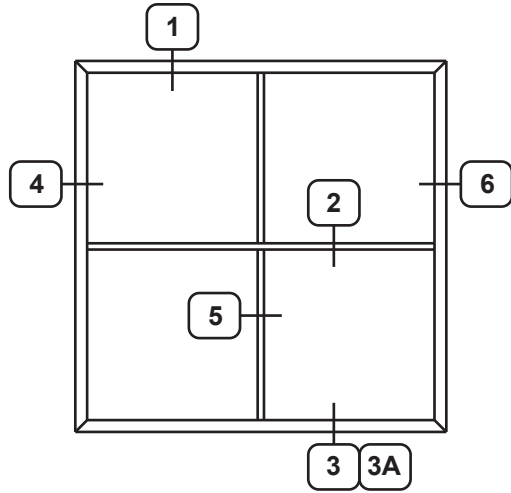
3A
SILL



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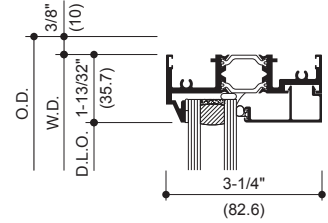
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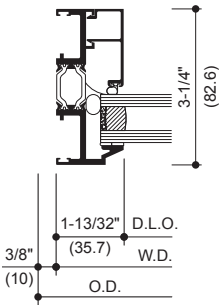
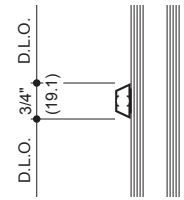


TYPICAL ELEVATION

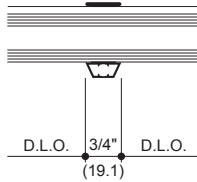
1 HEAD



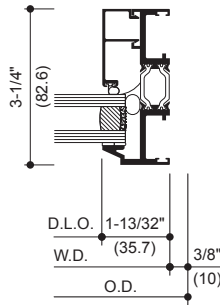
2 HORIZONTAL



4 JAMB

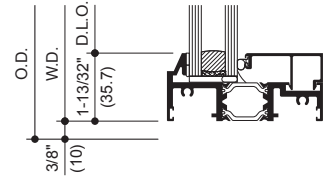


5 VERTICAL

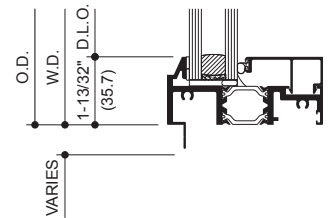


6 JAMB

3 SILL



3A SILL

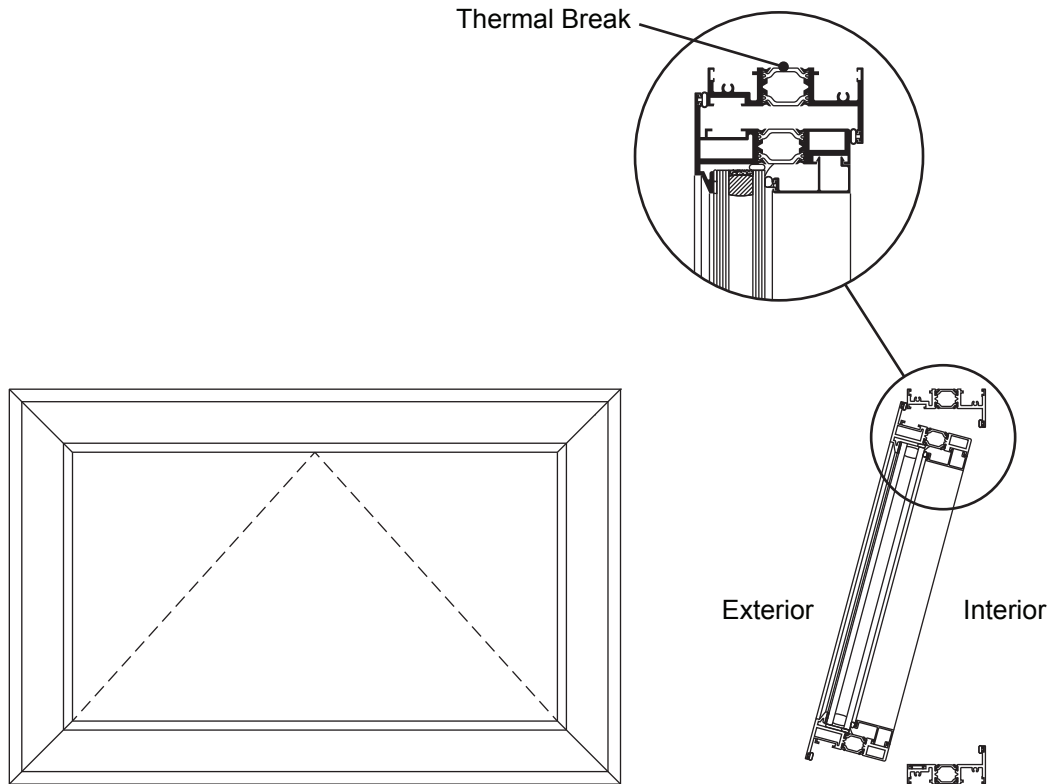


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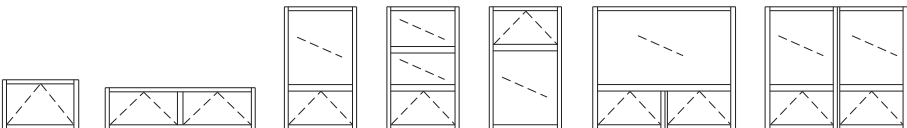
Features

- Architectural Grade Window
- Tested to US and Canadian Standards
- Polyamide Thermal Break
- Tubular Profiles
- Screw and Spline Frame Corner Joinery
- Factory Silicone Glazed
- Adjustable EURO-Groove Mounted Hardware
- Interior Applied Glazing Bead
- Architectural Anodized Finishes and Applied Coatings
- Interior and Exterior Dual Finish Options
- Two Year Manufacture's Warranty



NX-350 Project-out Window

For specific product applications,
consult your Kawneer representative.

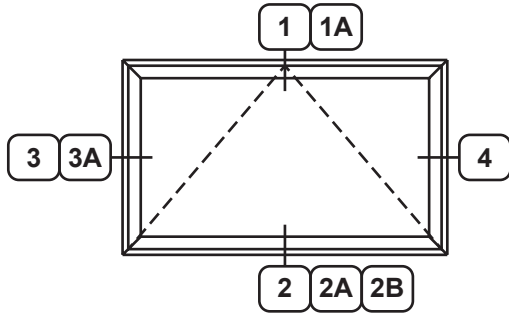
CLASS and GRADE	Architectural Grade AW-PG90-AP
TESTING STANDARD	AAMA / WDMA / CSA / 101 / I.S.2 / A440 (NAFS)
FRAME DEPTH	3-1/4" Overall Frame Depth
TYPICAL WALL THICKNESS	.125" Nominal Vent
TYPICAL MAX. VENT SIZE	60" x 60"
TYPICAL MIN. VENT SIZE	17" x 17"
INFILL OPTIONS	1"
TYPICAL CONFIGURATIONS	
STANDARD HARDWARE	Stainless Steel 4-Bar Hinges Cast White Bronze Cam Handles
OPTIONAL HARDWARE	Access Control Locks Pole and Pole Ring Limit Stop
OTHER OPTIONS	Structural Mullions Vertically or Horizontally Stacked Insect Screens Receptor and Sub Sill Panning Exterior or Interior Muntins

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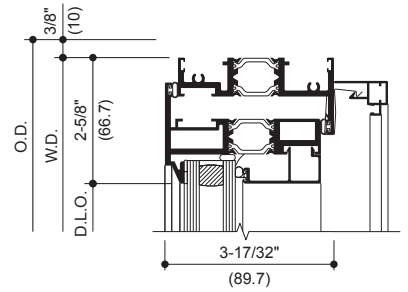
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(Nominal Dimensions Shown)

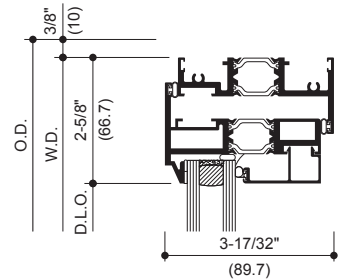


TYPICAL ELEVATION

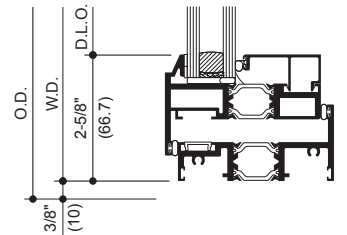
1 HEAD



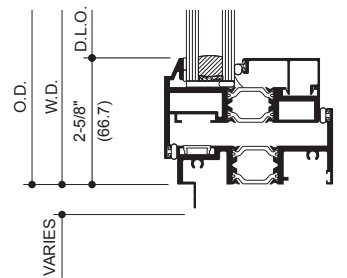
1A HEAD



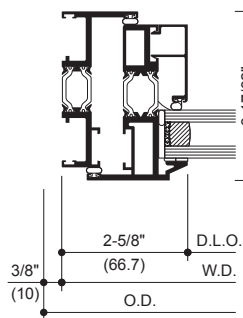
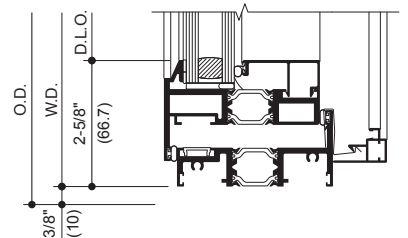
2 SILL



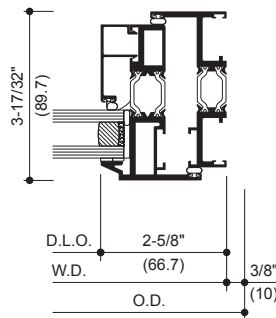
2A SILL



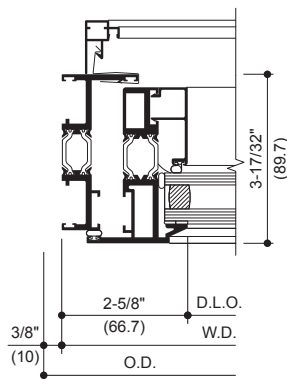
2B SILL



3 JAMB



4 JAMB



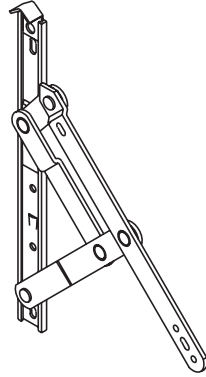
3A JAMB

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STAINLESS STEEL 4 BAR HINGES



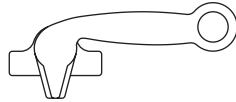
A standard hinge for ventilators providing approximately 45° to 60° openings depending on size. An optional limit stop is available to restrict hinge travel and limit vent opening.

CAM HANDLE



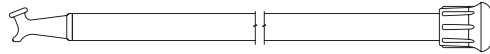
Cast white bronze cam handles are an alternative to standard multi-point locking for the operation and locking of ventilators.

CAM HANDLE WITH POLE RING



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

SASH POLE

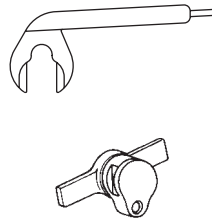


A 3/4" diameter aluminum sash pole with a cast white bronze pull down hook and black rubber tip. Available in 6 ft. and 12 ft. lengths with optional cast white bronze Pole Hanger.

HANGER FOR SASH POLE



ACCESS CONTROL LOCK



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

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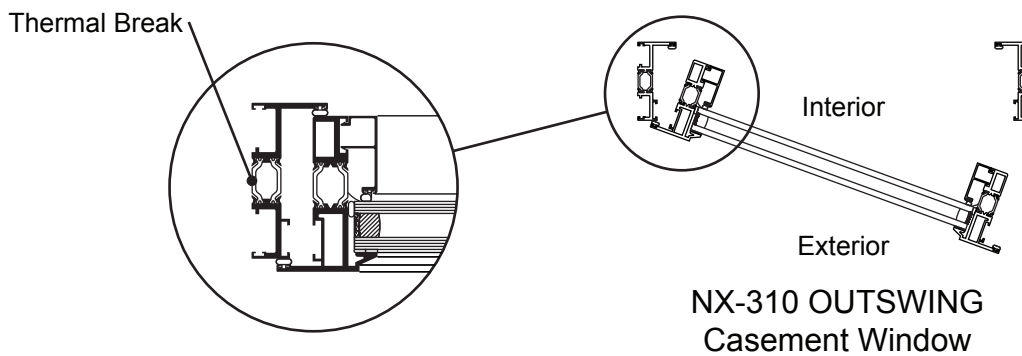
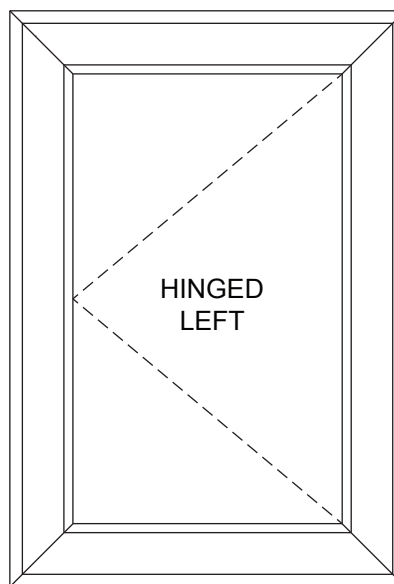
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Features

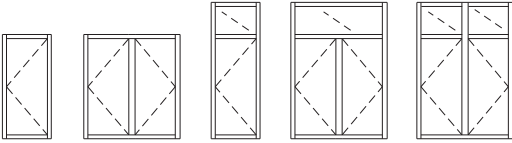
- Architectural Grade Window
- Tested to US and Canadian Standards
- Polyamide Thermal Break
- Tubular Profiles
- Screw and Spline Frame Corner Joinery
- Factory Silicone Glazed
- Adjustable EURO-Groove Mounted Hardware
- Interior Applied Glazing Bead
- Architectural Anodized Finishes and Applied Coatings
- Interior and Exterior Dual Finish Options
- Two Year Manufacture's Warranty

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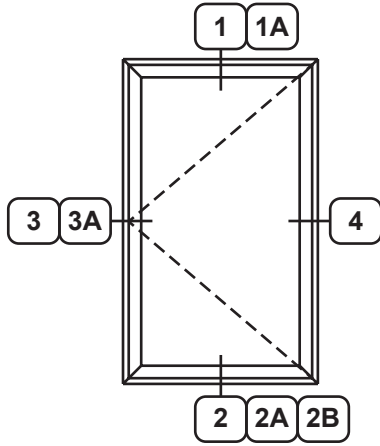
CLASS and GRADE	Architectural Grade AW-PG90-C
TESTING STANDARD	AAMA / WDMA / CSA / 101 / I.S.2 / A440 (NAFS)
FRAME DEPTH	3-1/4" Overall Frame Depth
TYPICAL WALL THICKNESS	.125" Nominal Vent
TYPICAL MAX. VENT SIZE	36" x 72"
TYPICAL MIN. VENT SIZE	17" x 24"
TYPICAL CONFIGURATIONS	
INFILL OPTIONS	1"
STANDARD HARDWARE	Stainless Steel 4-Bar Hinges Cast White Bronze Cam Handles
OPTIONAL HARDWARE	Access Control Locks Pole and Pole Ring Limit Stop
OTHER OPTIONS	Structural Mullions Vertically or Horizontally Stacked Insect Screens Receptor and Sub Sill Panning Exterior or Interior Muntins

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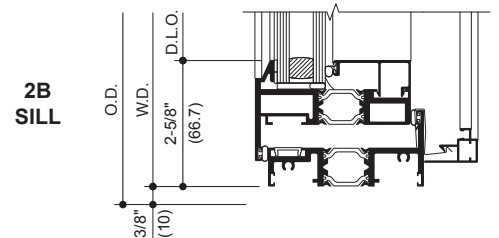
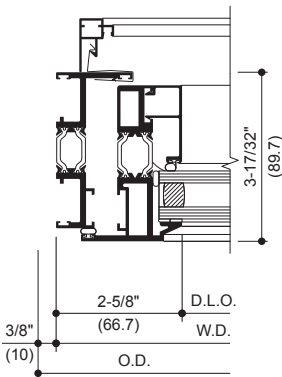
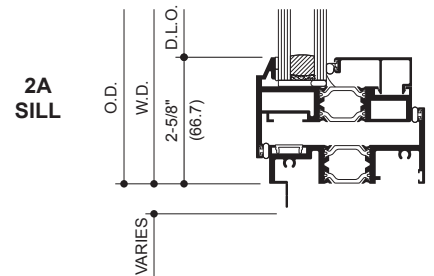
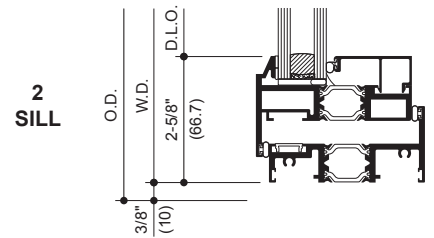
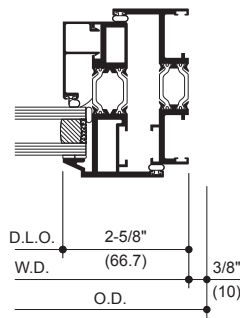
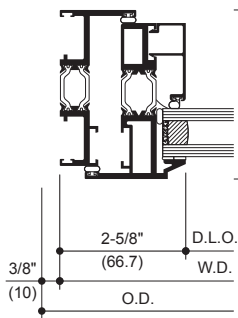
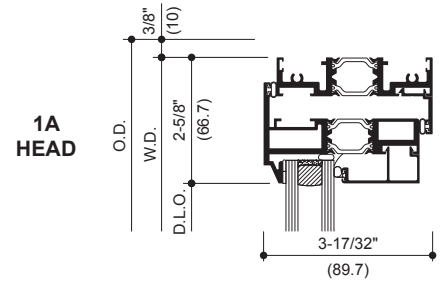
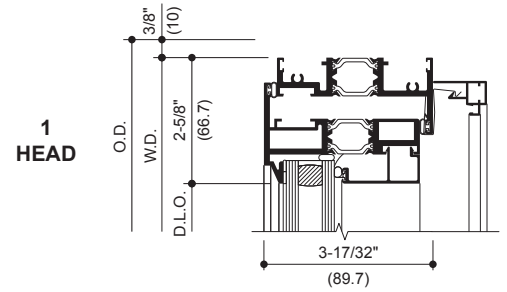
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(Nominal Dimensions Shown)

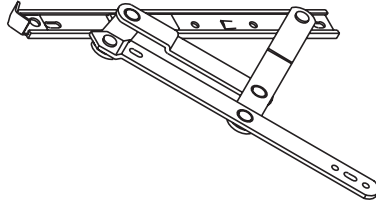


TYPICAL ELEVATION



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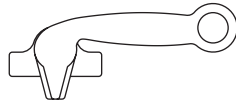
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**STAINLESS STEEL
4 BAR HINGES**

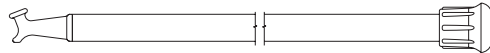
A standard hinge for ventilators providing an opening of up to 45°. An optional limit stop is available to restrict hinge travel and limit vent opening.

CAM HANDLE

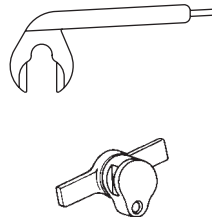
Cast white bronze cam handles are an alternative to standard multi-point locking for the operation and locking of ventilators.

**CAM HANDLE
WITH POLE RING**

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

SASH POLE

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

**HANGER
FOR SASH POLE****ACCESS CONTROL
LOCK**

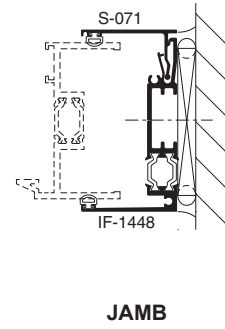
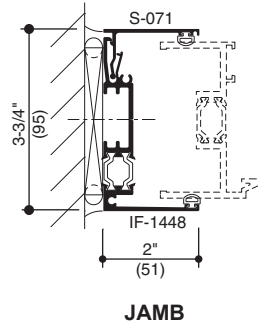
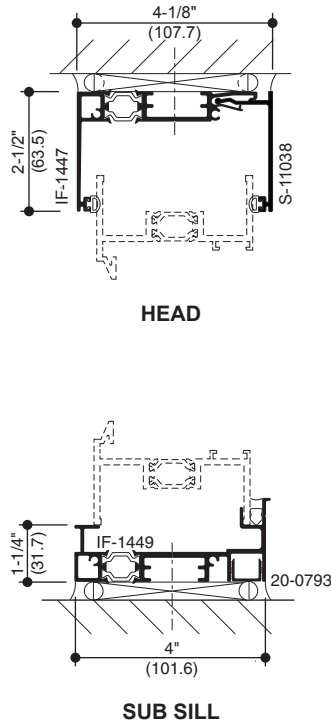
In lieu of cam handles and multi-point locking cast white bronze access control locks are offered for managed control of vent operations. Lock is operated with a manganese bronze removable handle.

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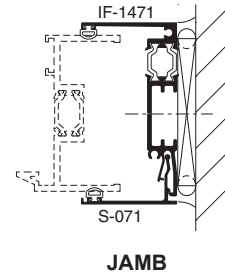
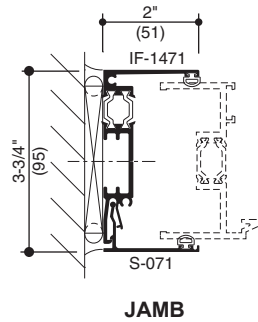
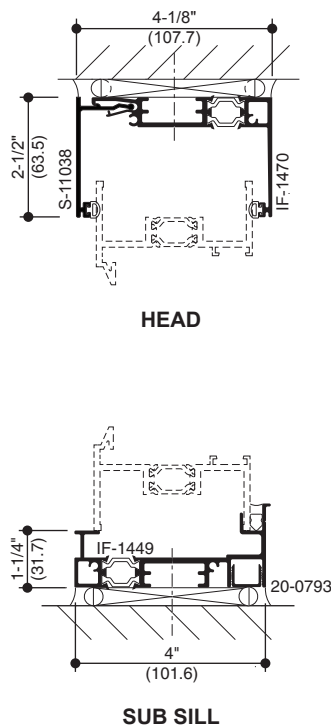
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(Nominal Dimensions Shown)

RECEPTOR DETAILS



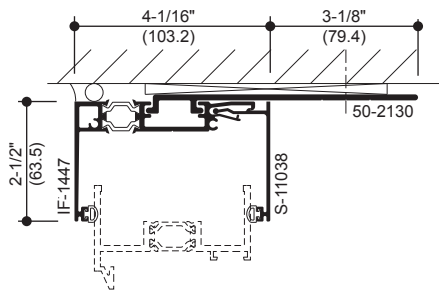
INTERIOR INSTALLED



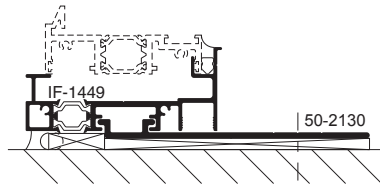
EXTERIOR INSTALLED

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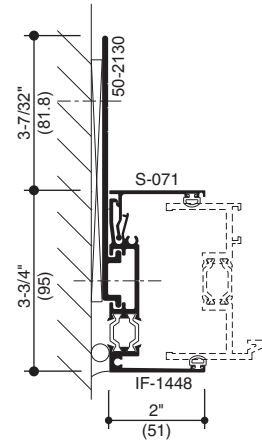
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**HEAD RECEPTOR
WITH
STRAP ANCHOR
(INTERIOR INSTALLED)**



**SUB SILL
WITH
STRAP ANCHOR**



**JAMB RECEPTOR
WITH
STRAP ANCHOR
(INTERIOR INSTALLED)**

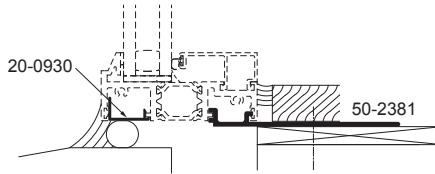
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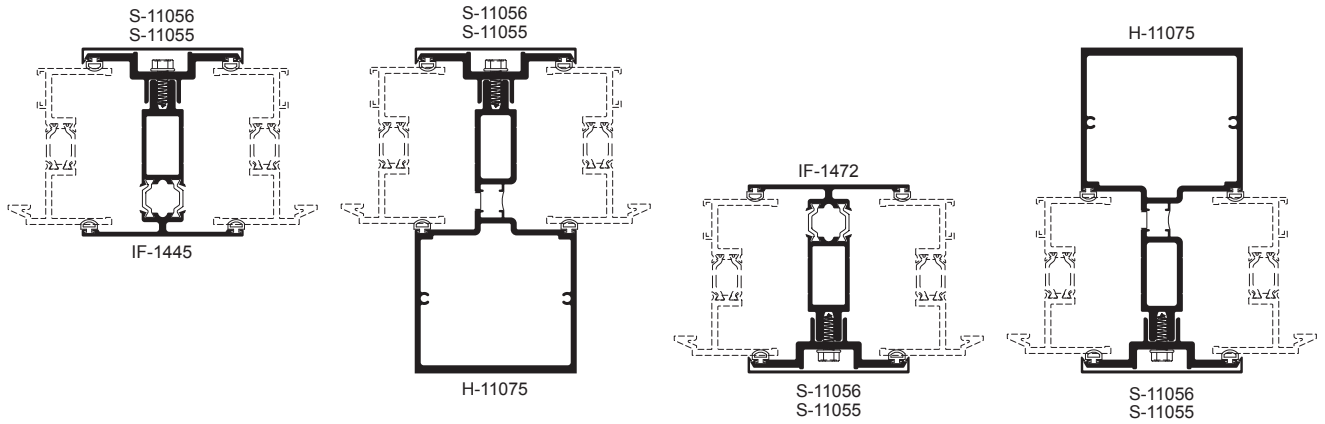
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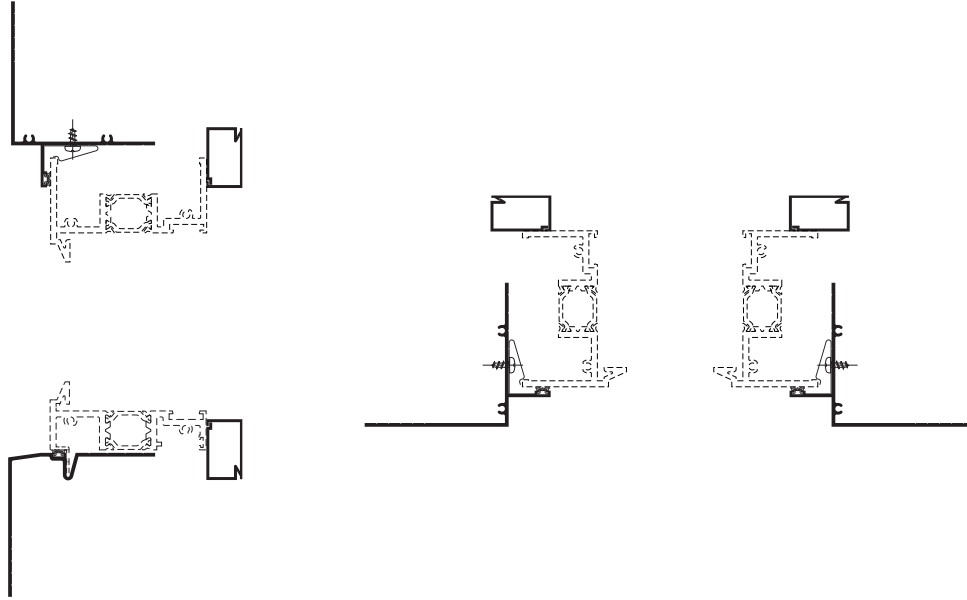
**STANDARD FRAME
FILLER AND STRAP ANCHOR**

3-PIECE MULLIONS

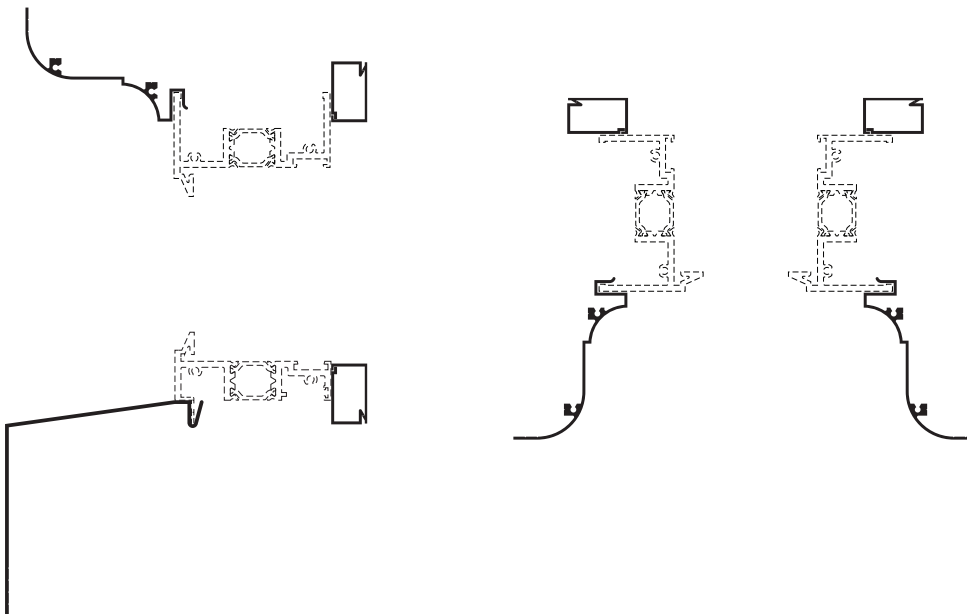


Additional information and CAD details are available at www.kawneer.com

PRE-SET PANNING



WRAP AROUND PANNING



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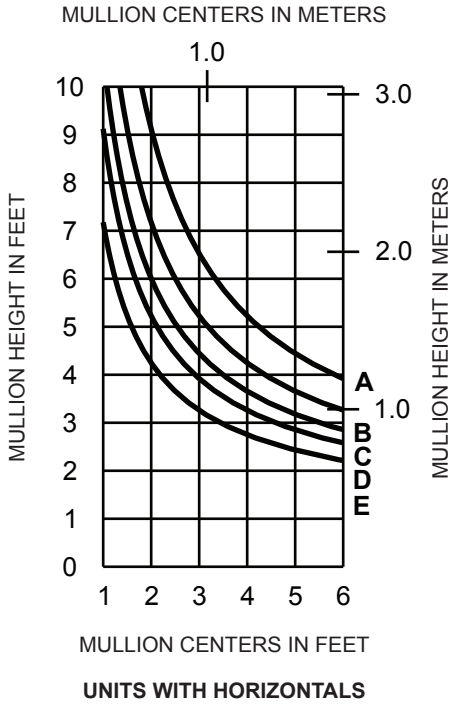
WIND LOAD CHARTS

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.

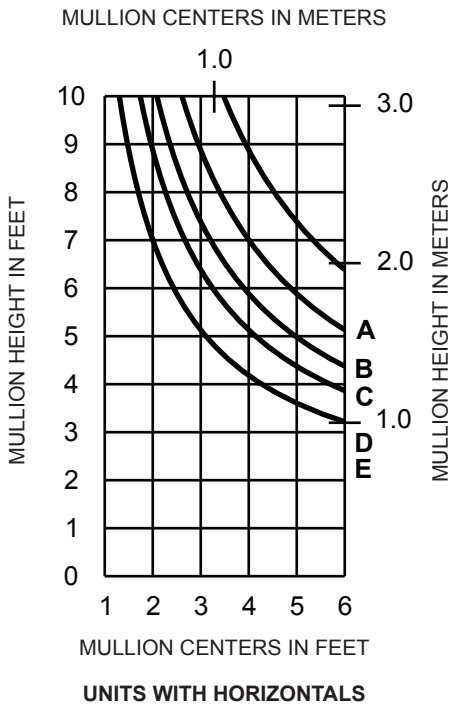
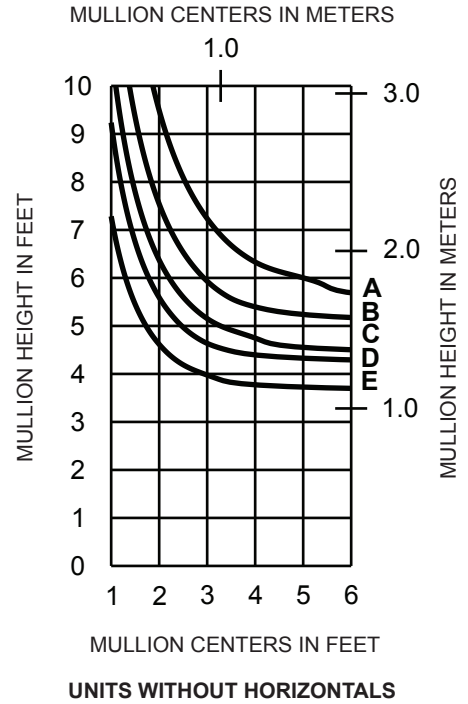
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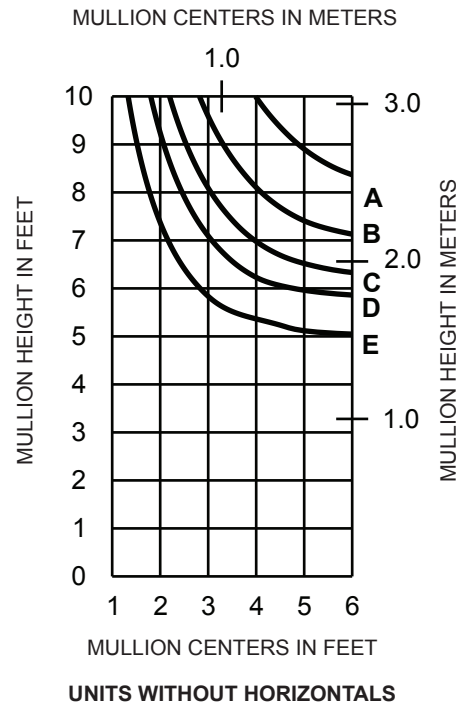
	Allowable Stress Design Load	LRFD Ultimate Design Load
A =	15 PSF (720)	25 PSF (1200)
B =	20 PSF (960)	33 PSF (1580)
C =	25 PSF (1200)	42 PSF (2000)
D =	30 PSF (1440)	50 PSF (2400)
E =	40 PSF (1920)	67 PSF (3200)



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



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

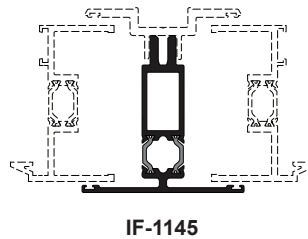
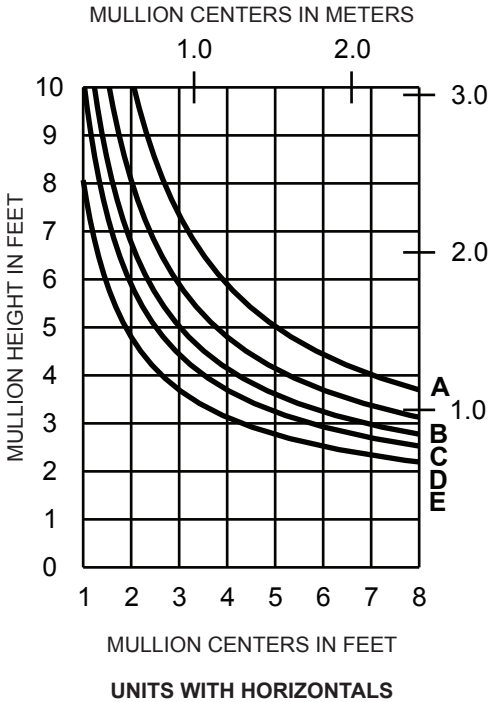


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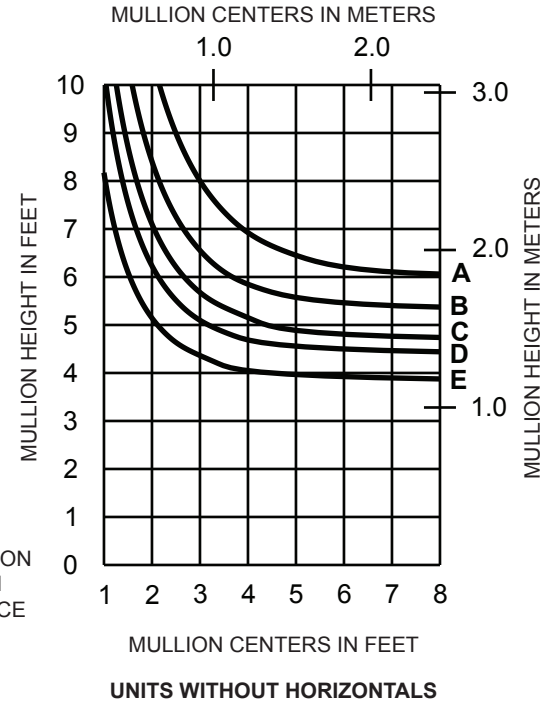
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E =	40 PSF (1920)	67 PSF (3200)

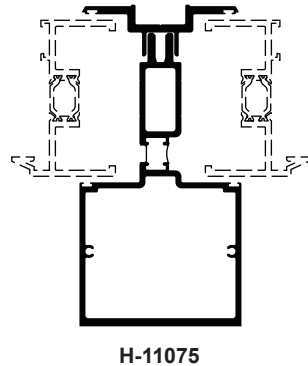
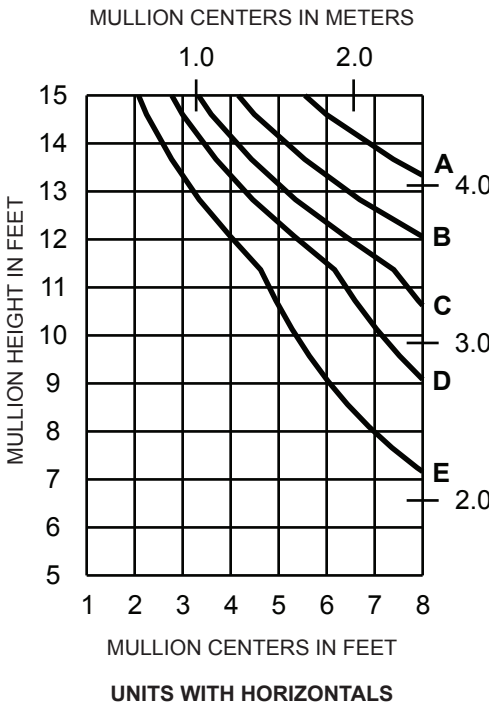
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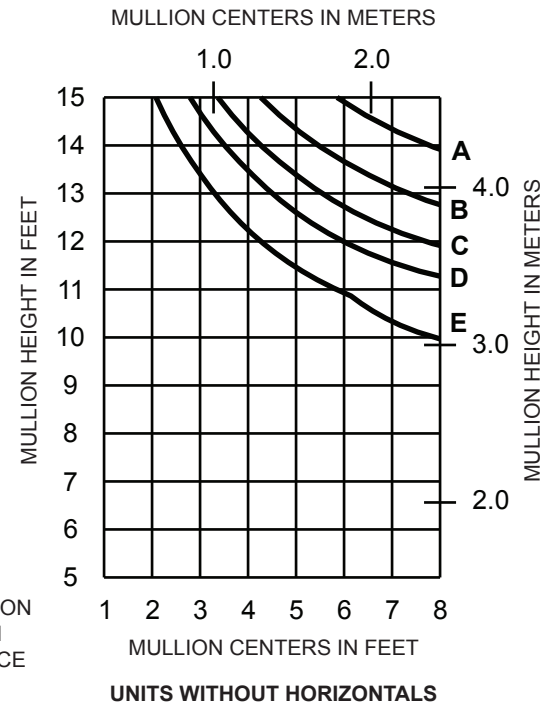
WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505



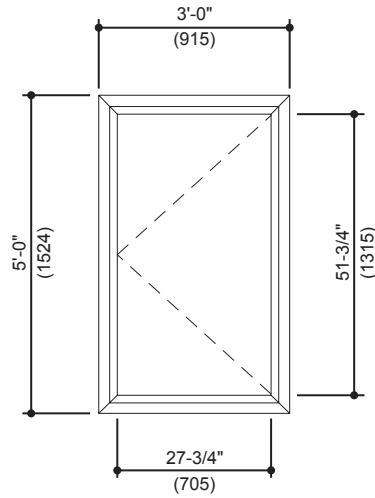
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WIND LOAD CHARTS ARE BASED ON COMPOSITE PROPERTIES WHICH ARE CALCULATED IN ACCORDANCE WITH AAMA TIR-8 AND AAMA 505



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



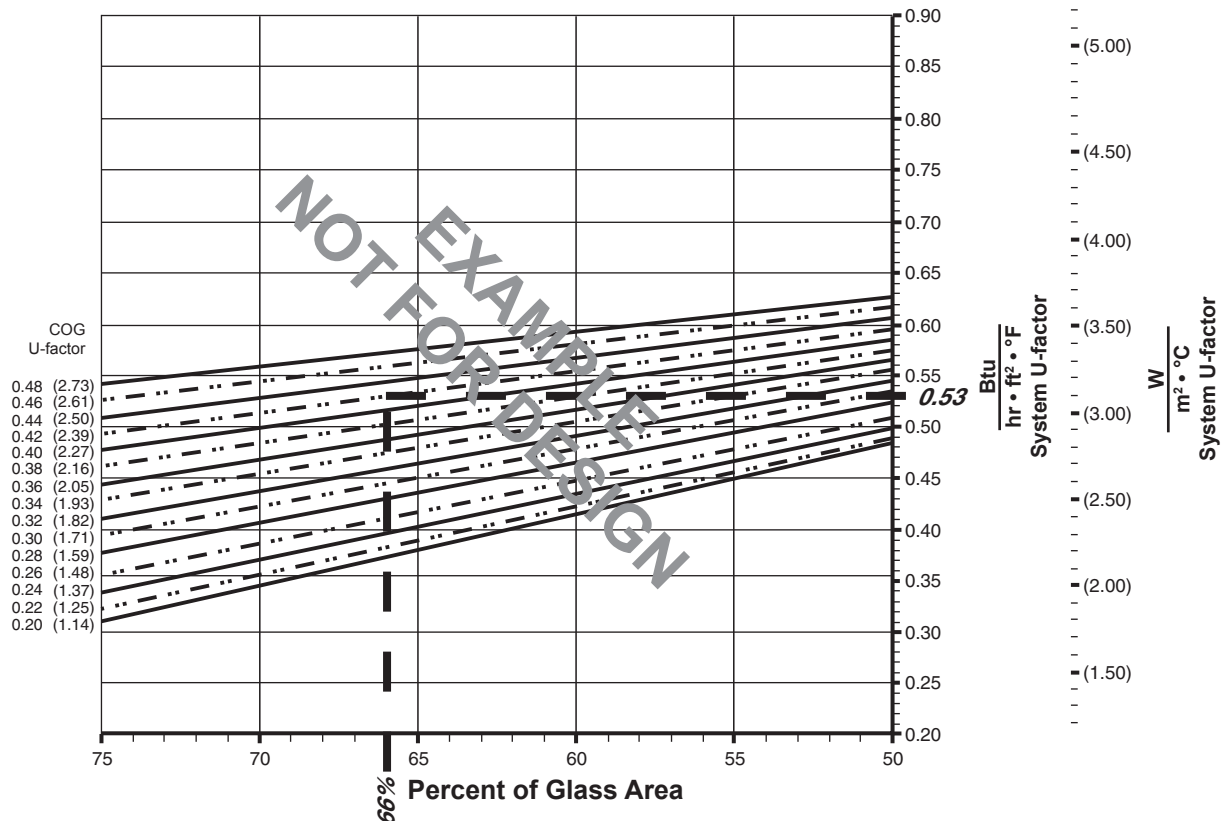
Example Glass U-Factor = 0.42 Btu/hr • ft² • °F

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

Total Projected Area = 3'-0" • 5'-0" = 15 ft²

Percent of Glass = (Total Daylight Opening ÷ Total Projected Area)100
 = (9.97 ÷ 15)100 = 66%

System U-factor vs Percent of Glass Area



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

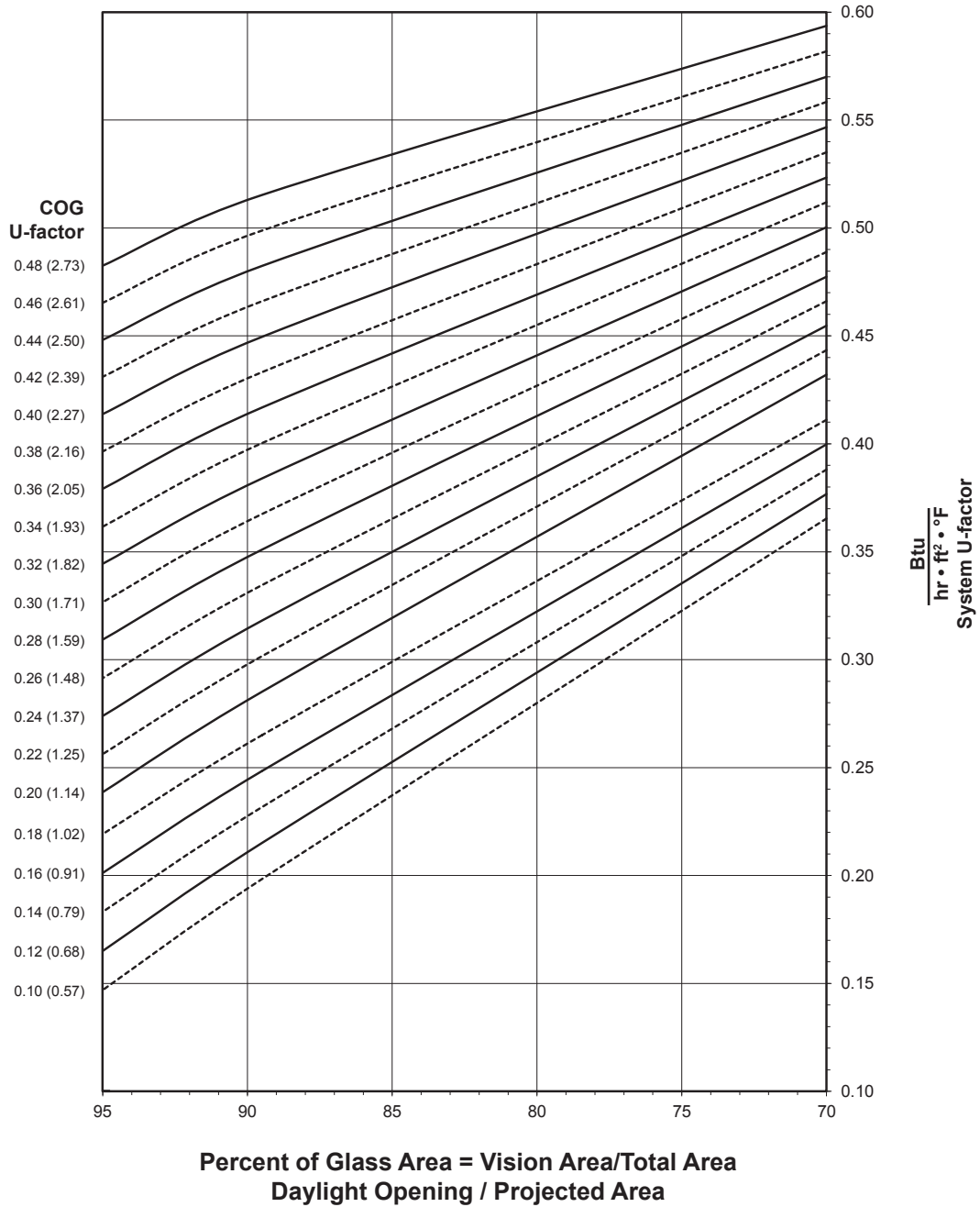
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NX-380 FIXED WINDOW WITH 1" GLAZING

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

System U-factor vs Percent of Glass Area



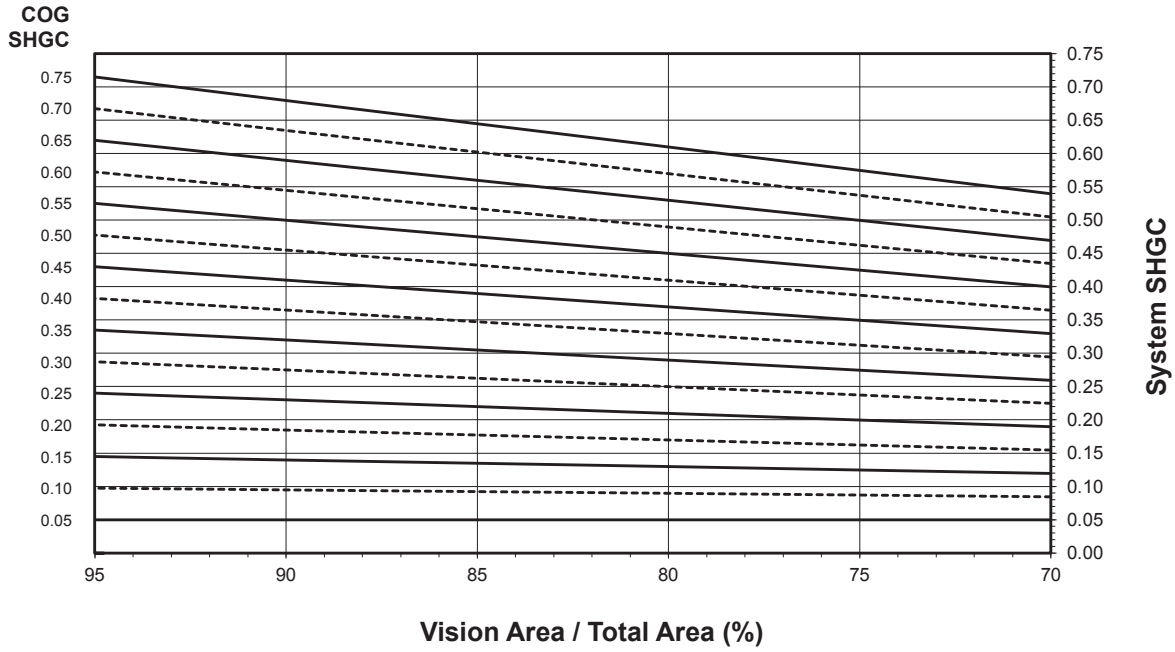
Notes for System U-factor, SHGC and VT charts:
For glass values that are not listed, linear interpolation is permitted.
Glass properties are based on center of glass values and are obtained from your glass supplier.

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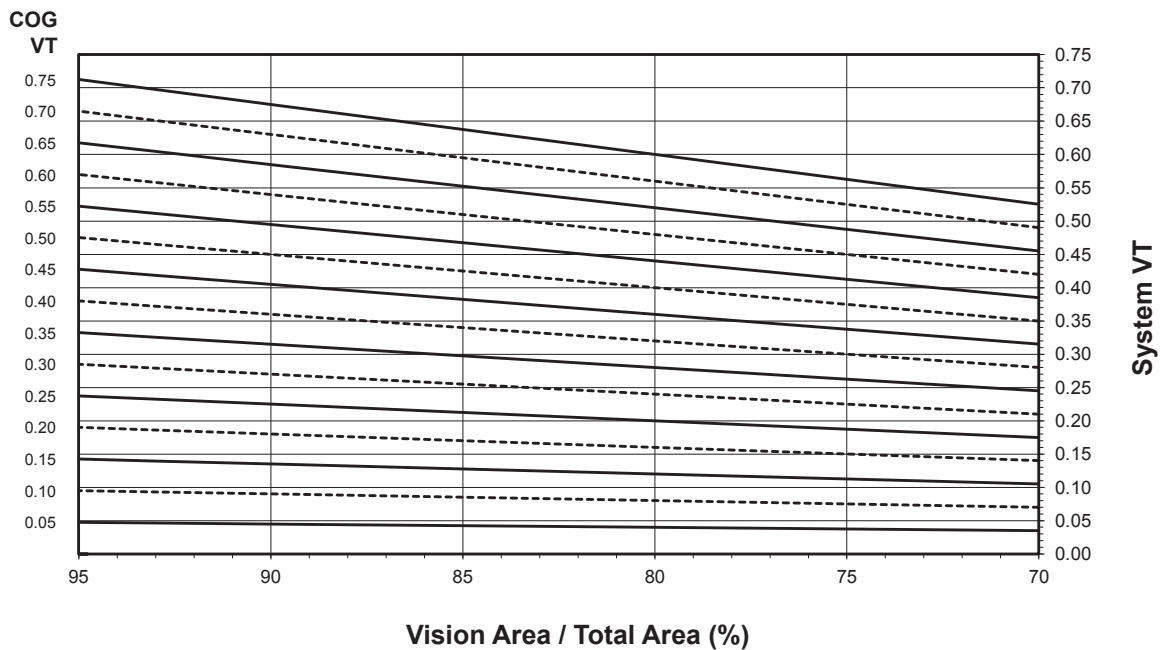
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NX-380 FIXED WINDOW WITH 1" GLAZING

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



System Visible Transmittance (VT) vs Percent of Vision Area



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Thermal Transmittance ¹ (BTU/hr • ft² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.52
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	0.33
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

NX-380 FIXED WINDOW WITH 1" GLAZING

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

1. U-Factors are determined in accordance with NFRC 100.
2. SHGC and VT values are determined in accordance with NFRC 200.
3. Glass properties are based on center of glass values and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matricies are based on the standard NFRC specimen size of 1,200 mm wide by 1,500 mm high (47-1/4" by 59-1/16").

SHGC Matrix ²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.68
0.70	0.63
0.65	0.59
0.60	0.54
0.55	0.50
0.50	0.45
0.45	0.41
0.40	0.36
0.35	0.32
0.30	0.27
0.25	0.23
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	0.67
0.70	0.63
0.65	0.58
0.60	0.54
0.55	0.49
0.50	0.45
0.45	0.40
0.40	0.36
0.35	0.31
0.30	0.27
0.25	0.22
0.20	0.18
0.15	0.13
0.10	0.09
0.05	0.04

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NX-350 PROJECT-OUT WINDOW WITH 1" GLAZING

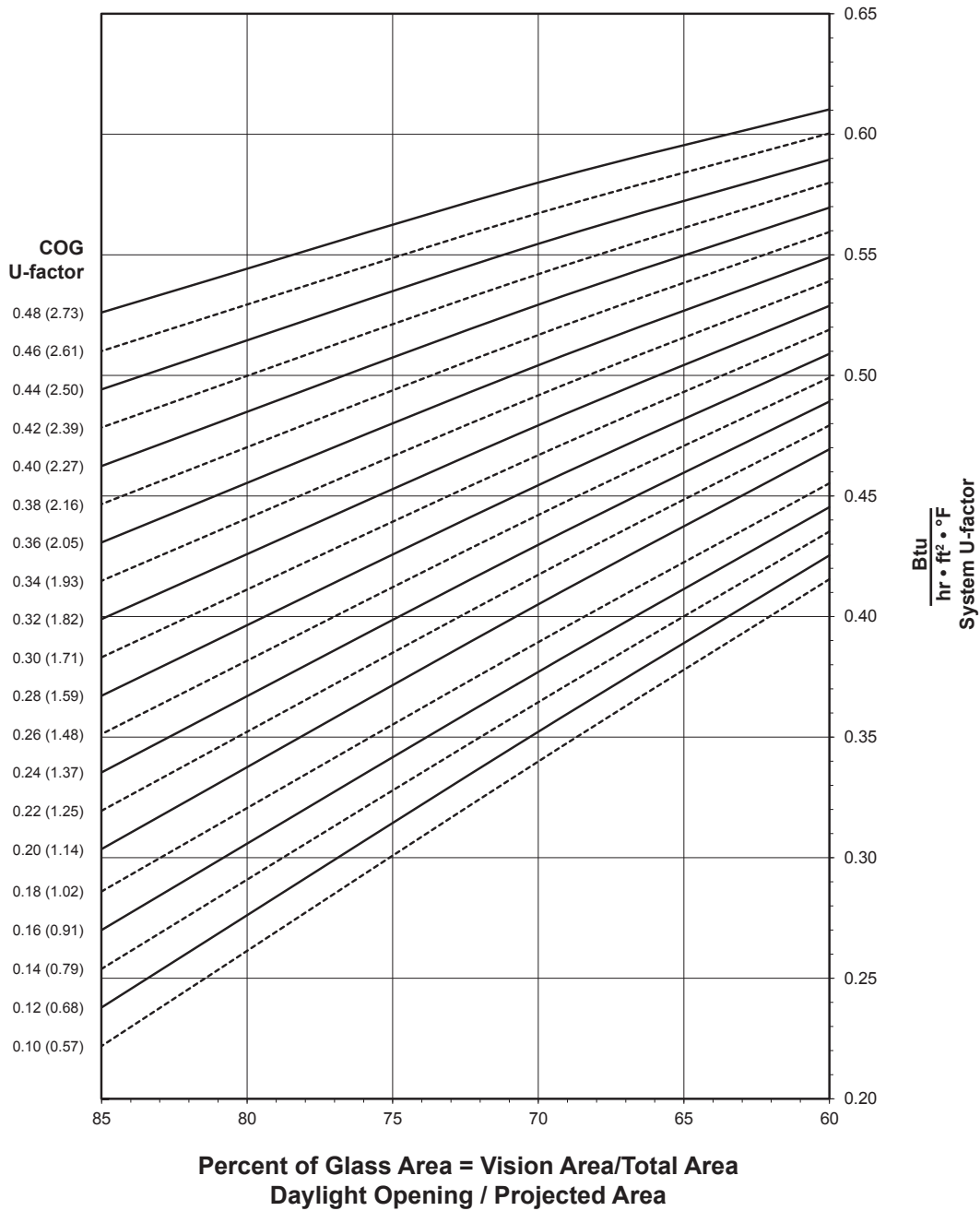
Note:

Values in parentheses are metric.

COG = Center of Glass.

Charts are generated per AAMA 507

System U-factor vs Percent of Glass Area



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.

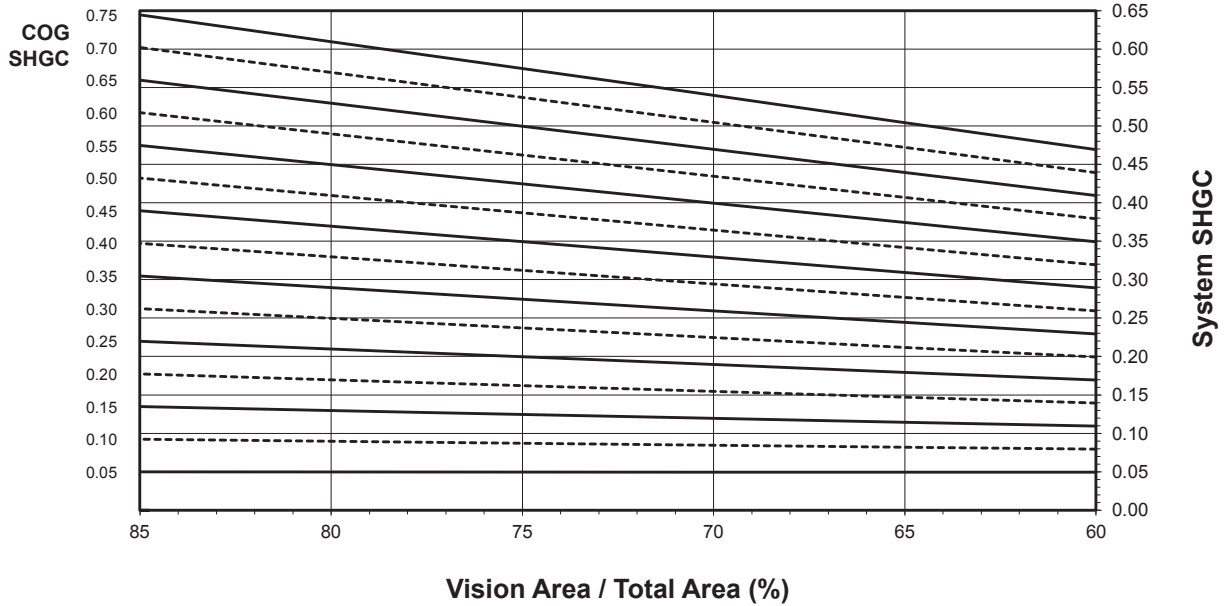
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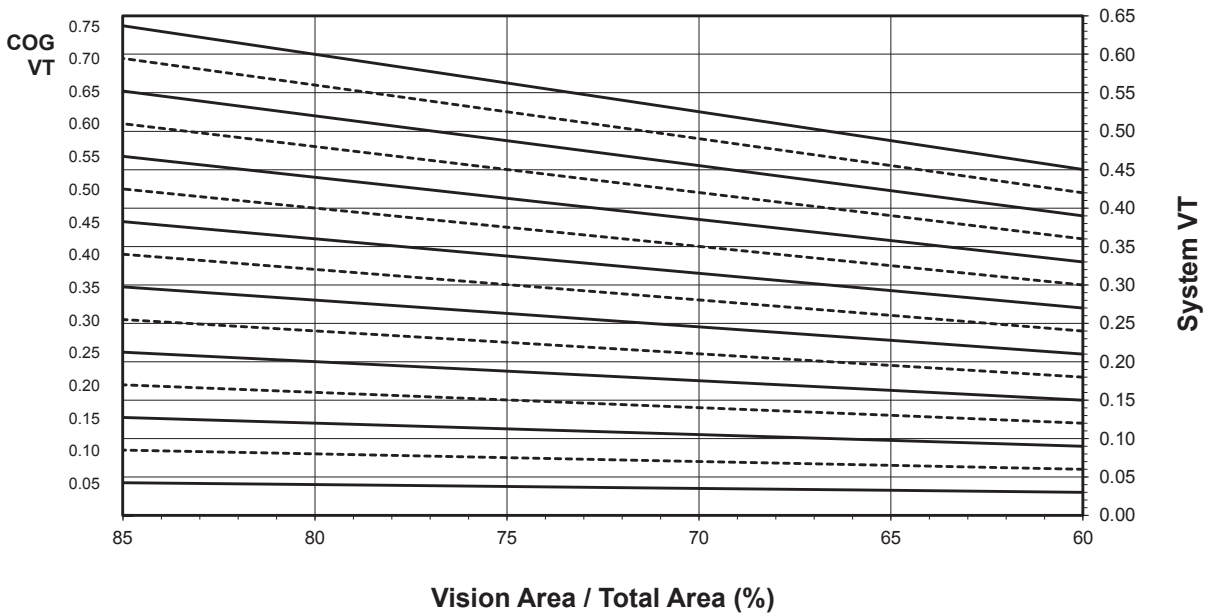
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NX-350 PROJECT-OUT WINDOW WITH 1" GLAZING

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



System Visible Transmittance (VT) vs Percent of Vision Area



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Thermal Transmittance ¹ (BTU/hr • ft² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.58
0.46	0.56
0.44	0.55
0.42	0.54
0.40	0.53
0.38	0.51
0.36	0.50
0.34	0.49
0.32	0.48
0.30	0.46
0.28	0.45
0.26	0.44
0.24	0.43
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	0.33

NX-350 PROJECT-OUT WINDOW
WITH 1" GLAZING

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

1. U-Factors are determined in accordance with NFRC 100.
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	0.54
0.70	0.51
0.65	0.47
0.60	0.44
0.55	0.40
0.50	0.37
0.45	0.33
0.40	0.30
0.35	0.26
0.30	0.23
0.25	0.19
0.20	0.16
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	0.50
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

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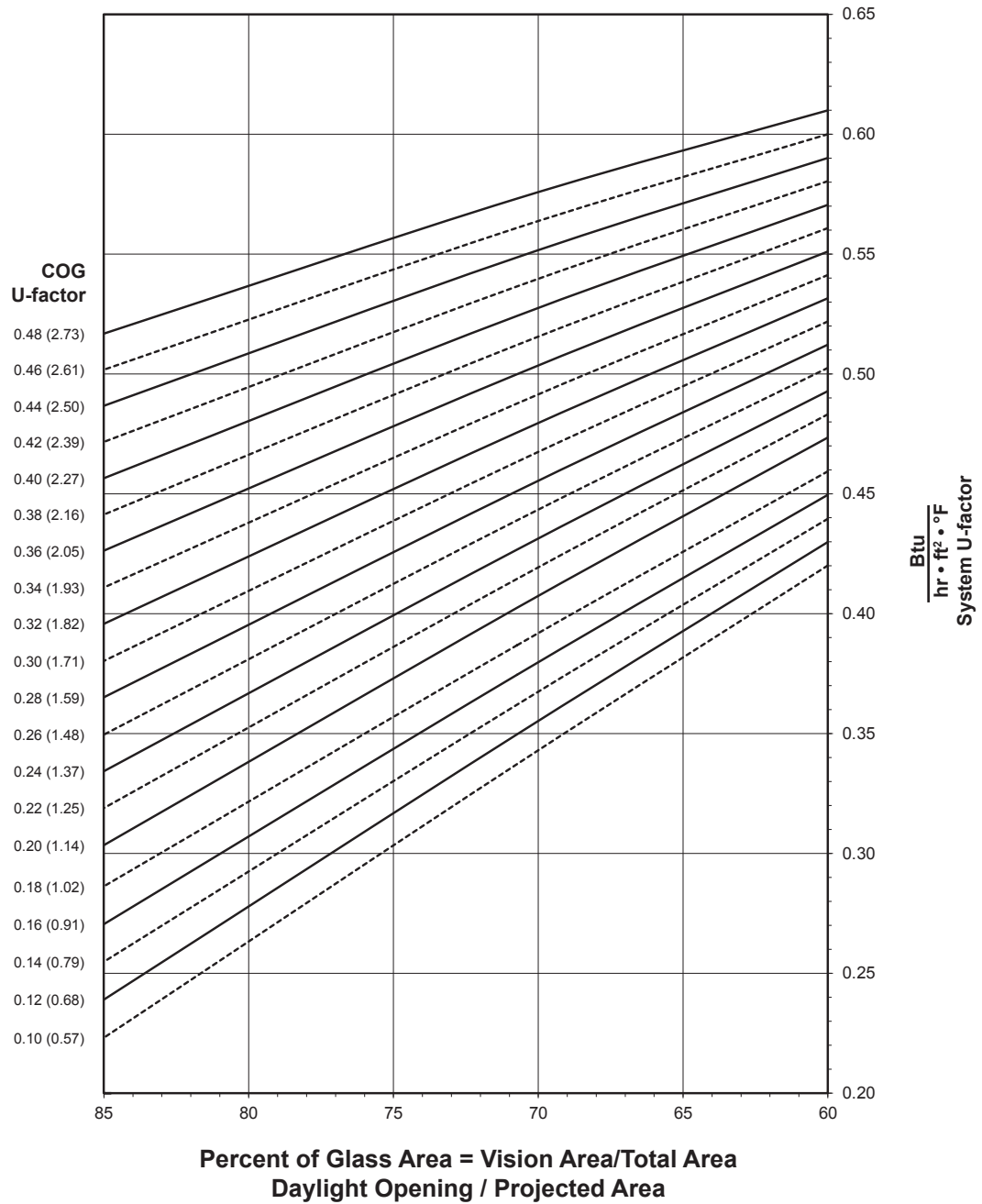
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NX-310 CASEMENT WINDOW WITH 1" GLAZING

Note:

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

System U-factor vs Percent of Glass Area



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

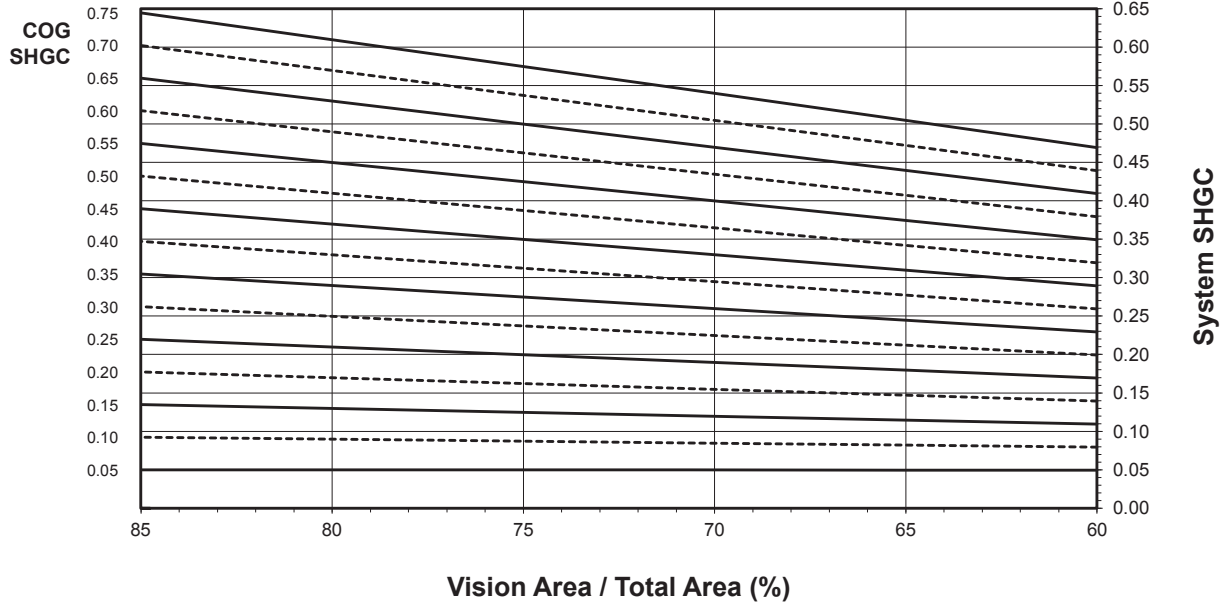
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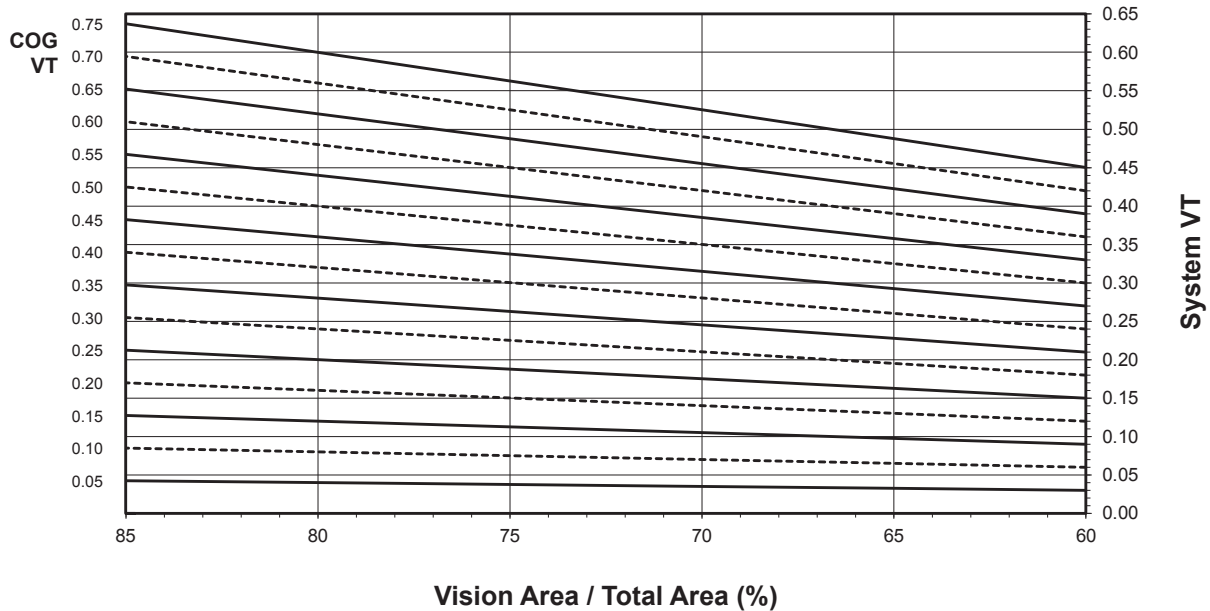
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NX-310 CASEMENT WINDOW WITH 1" GLAZING

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



System Visible Transmittance (VT) vs Percent of Vision Area



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Thermal Transmittance ¹ (BTU/hr • ft² • °F)

Glass U-Factor ³	Overall U-Factor ⁴
0.48	0.57
0.46	0.56
0.44	0.55
0.42	0.54
0.40	0.52
0.38	0.51
0.36	0.50
0.34	0.49
0.32	0.48
0.30	0.46
0.28	0.45
0.26	0.44
0.24	0.43
0.22	0.41
0.20	0.40
0.18	0.39
0.16	0.37
0.14	0.36
0.12	0.35
0.10	0.34

NX-310 CASEMENT WINDOW WITH 1" GLAZING

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

1. U-Factors are determined in accordance with NFRC 100.
2. SHGC and VT values are determined in accordance with NFRC 200.
3. Glass properties are based on center of glass values and are obtained from your glass supplier.
4. Overall U-Factor, SHGC, and VT Matricies are based on the standard NFRC specimen size of 600 mm wide by 1,500 mm high (23-5/8" by 59-1/16").

SHGC Matrix ²

Glass SHGC ³	Overall SHGC ⁴
0.75	0.54
0.70	0.51
0.65	0.47
0.60	0.44
0.55	0.40
0.50	0.37
0.45	0.33
0.40	0.30
0.35	0.26
0.30	0.23
0.25	0.19
0.20	0.16
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	0.50
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

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