

## **Features**

- High performance ratings for structural, air infiltration, thermal efficiency and water resistance.
- Tested to applicable North American Standards:  
AAMA / NWDA / CSA 101 / I.S.2 / A440
- Mitered panel and frame corners.
- Available as OX, XO, OXO and OXXO configurations.  
OOX and XOO configurations possible with optional vertical mullion.
- Accommodates 1" and 1-5/16" infills.
- Handle options in a variety of styles and finishes.
- Heavy duty stainless steel casters.
- Stainless steel track insert for sliding panels.
- Stainless steel 1-point and 2-point hookbolt locks and keepers.
- Optional applied interior insect screens.
- Polyamide thermal break allows two-color option.
- Permanodic® anodized finishes in 7 choices.
- Painted finishes in standard and custom choices.

## **Product Applications**

- The AA™3900 is a high performance, thermal sliding door for use in condominiums, lofts, hotels and apartments.
- The AA™3900 is intended to be installed in "punched" openings or as a liner frame within other Kawneer framing or curtain wall systems.

For specific product applications,  
Consult your Kawneer representative.

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**Architects** – Most extrusion and sliding door types illustrated in this catalog are standard products for Kawneer. These concepts have been expanded and modified to afford you design freedom. Some miscellaneous details are non-standard and are intended to demonstrate how the system can be modified to expand design flexibility. Please contact your Kawneer representative or Kawneer’s Architectural Services Team for further assistance.

**TYPICAL ELEVATIONS..... 4**

**STANDARD DETAILS..... 5, 6**

**INTERIOR INSECT SCREEN ..... 7, 8**

**HARDWARE..... 9**

**THERMAL CHARTS ..... 10-14**

**GUIDE SPECIFICATIONS ..... 1-6**

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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.

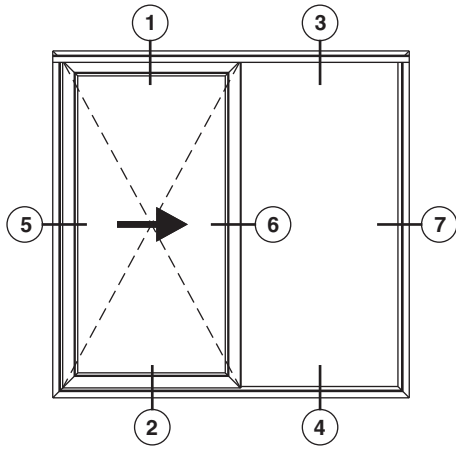
Metric (SI) conversion figures are included throughout these details for reference. Numbers in parentheses ( ) are millimeters unless otherwise noted.

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

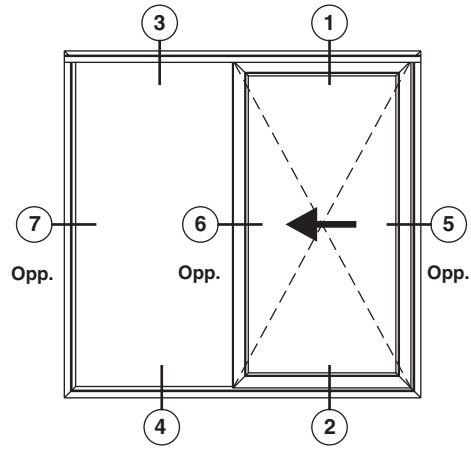
- m – meter
- cm – centimeter
- mm – millimeter
- s – second
- Pa – pascal
- MPa – megapascal

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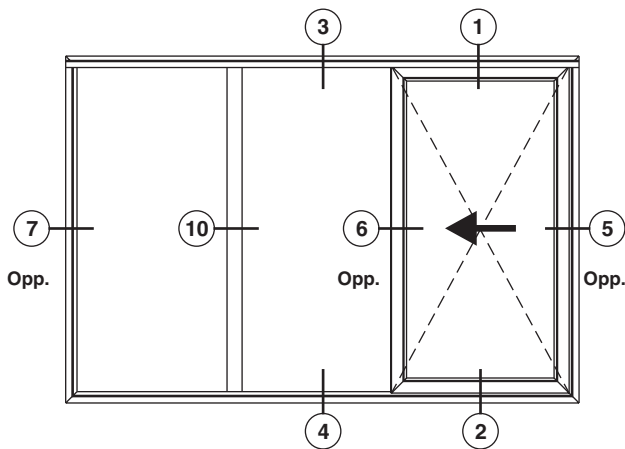
Elevations are number keyed to details.



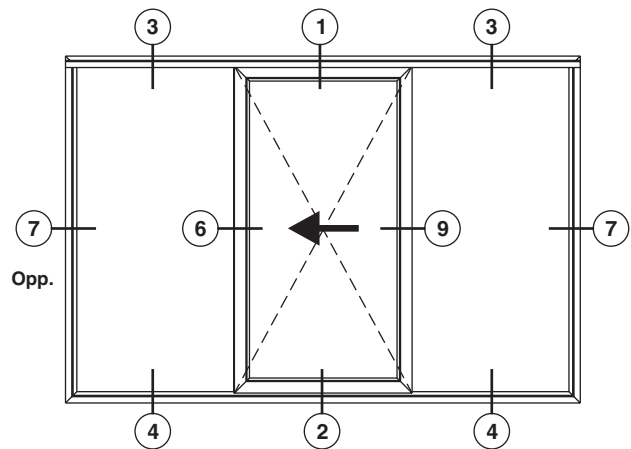
**XO UNIT**



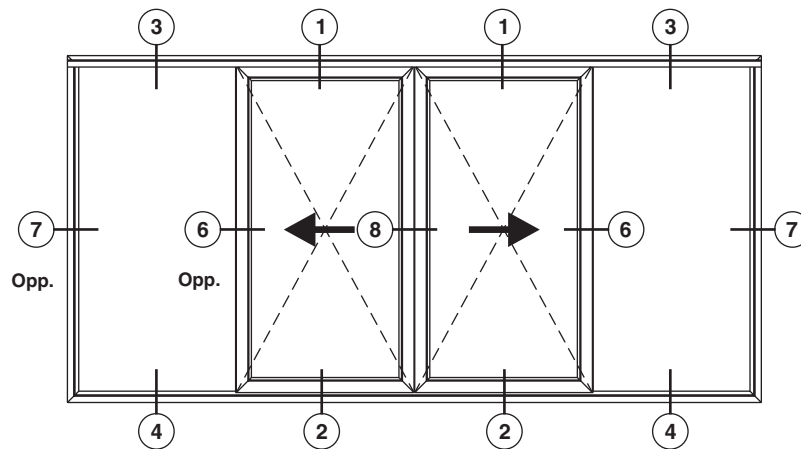
**OX UNIT**



**OOX UNIT**



**OXO UNIT**



**OXXO UNIT**

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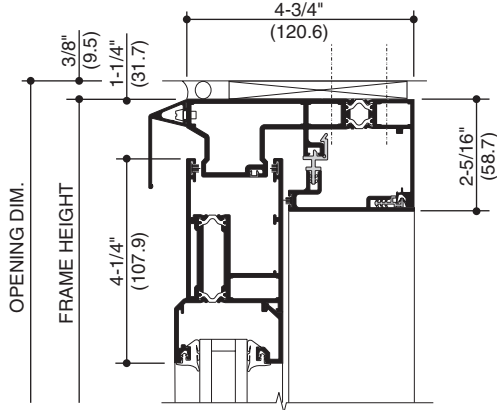
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SCALE 3" = 1'-0"

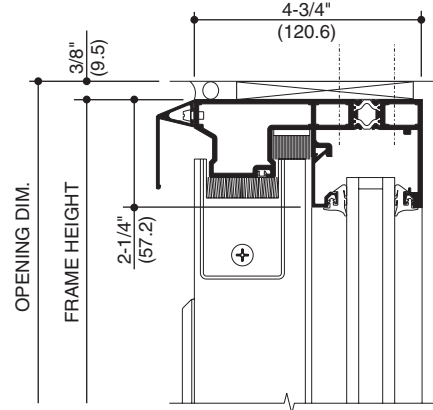
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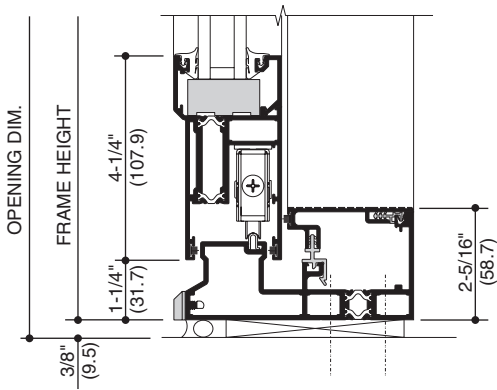
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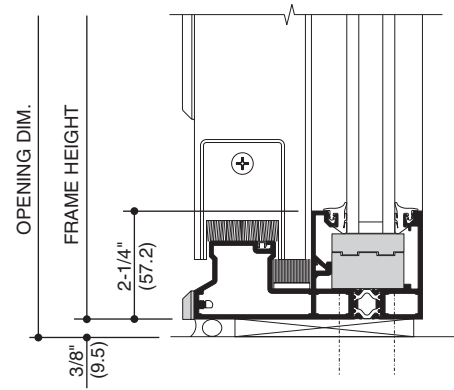
1  
HEAD  
(SLIDING PANEL)



3  
HEAD  
(FIXED PANEL)

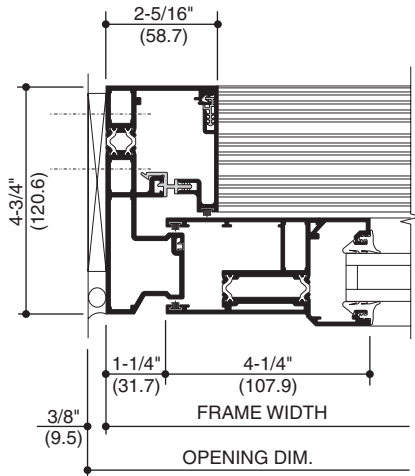


2  
SILL  
(SLIDING PANEL)

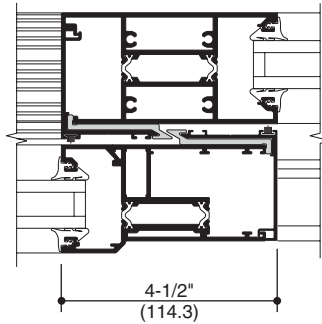


4  
SILL  
(FIXED PANEL)

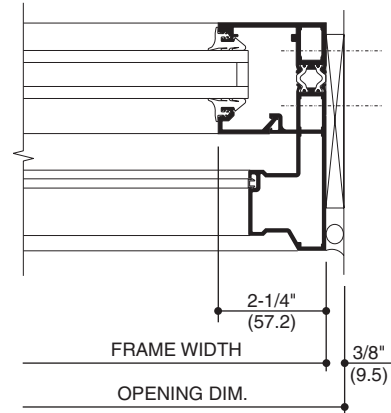
SCALE 3" = 1'-0"



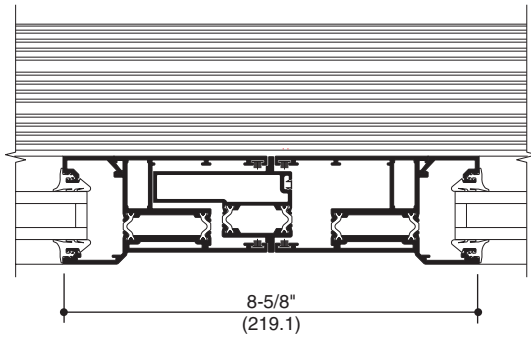
**5**  
**JAMB**  
**(SLIDING PANEL)**



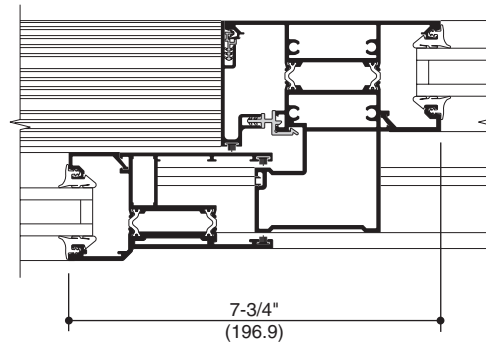
**6**  
**INTERLOCKS**



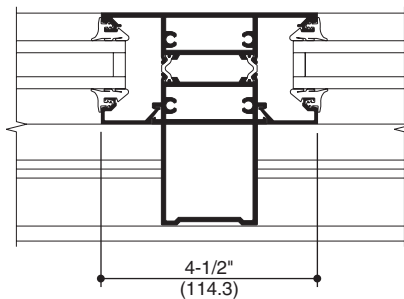
**7**  
**JAMB**  
**(FIXED PANEL)**



**8**  
**MEETING STILES**



**9**  
**LOCK STILE**



**10**  
**FIXED MULLION**

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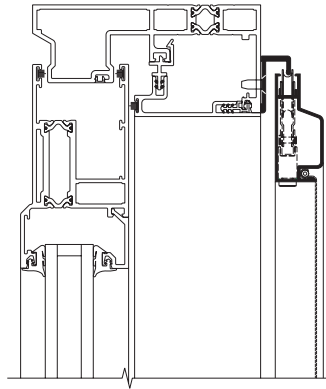
**SCALE 3" = 1'-0"**

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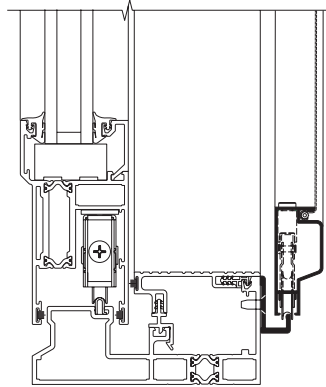
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**HEAD**



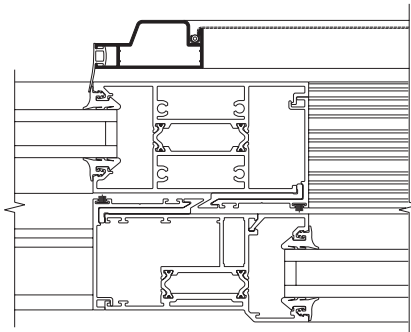
**INSECT SCREEN**

**SILL**



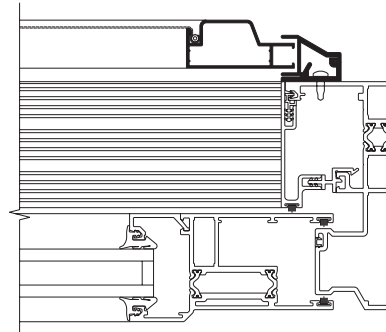
**INSECT SCREEN**

**INSECT SCREEN**



**INTERLOCK**

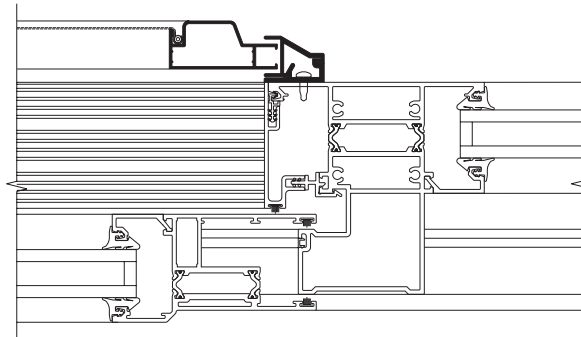
**INSECT SCREEN**



**LOCK JAMB**

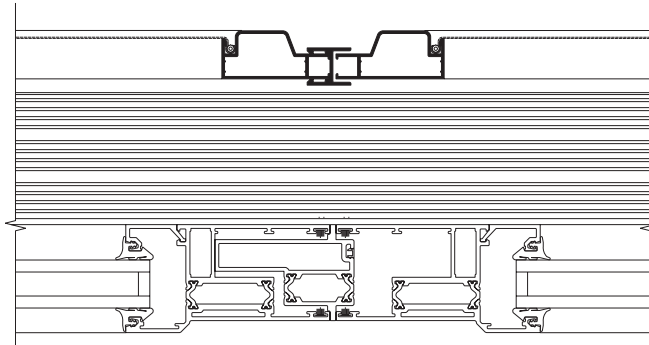
SCALE 3" = 1'-0"

INSECT SCREEN



LOCK STILE  
MULLION

INSECT SCREEN



MEETING STILES

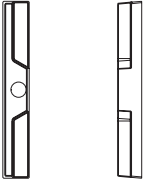
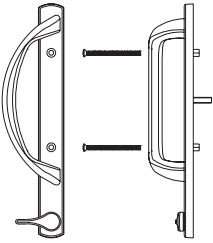
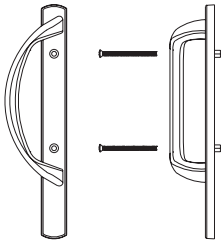
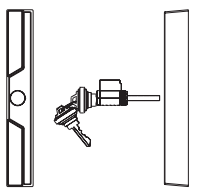
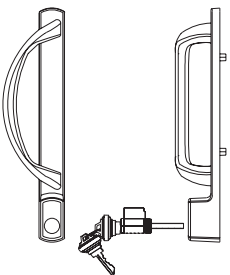
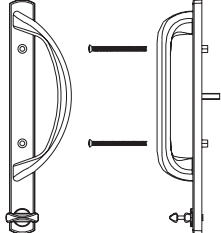
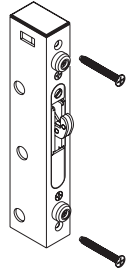
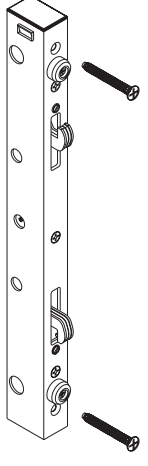
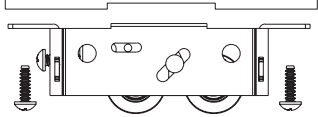
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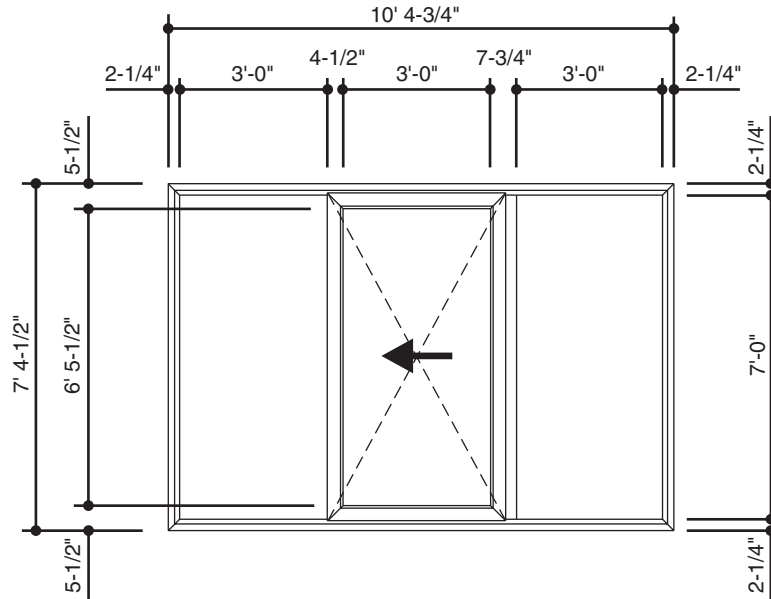
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<p style="text-align: center;"><b>STANDARD EXTERIOR PULLS</b></p> <div style="text-align: center;">  </div> <p style="text-align: center;"><b>FINGER PULL (BLANK)</b></p>	<p style="text-align: center;"><b>STANDARD INTERIOR PULLS</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><b>"D" PULL WITH LEVER</b></p> </div> <div style="text-align: center;">  <p><b>"D" PULL (BLANK) OXO INACTIVE PANEL</b></p> </div> </div>
<p style="text-align: center;"><b>OPTIONAL EXTERIOR PULLS</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><b>FINGER PULL WITH CYLINDER</b></p> </div> <div style="text-align: center;">  <p><b>"D" PULL WITH CYLINDER</b></p> </div> </div>	<p style="text-align: center;"><b>OPTIONAL INTERIOR PULLS</b></p> <div style="text-align: center;">  <p><b>INTERIOR PULL WITH THUMBTURN</b></p> </div>
<p style="text-align: center;"><b>HARDWARE FINISHES</b></p> <ul style="list-style-type: none"> <li><b>SATIN BLACK - Powder Coat Paint</b></li> <li><b>BONE WHITE - Powder Coat Paint</b></li> <li><b>SILVER GRAY - Powder Coat Paint</b></li> <li><b>SATIN NICKEL - Plated</b></li> <li><b>BRIGHT BRASS - Plated, PVD Coated</b></li> </ul>	<p style="text-align: center;"><b>LOCKING OPTIONS</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><b>1 POINT LOCK</b></p> </div> <div style="text-align: center;">  <p><b>2 POINT LOCK</b></p> </div> </div>
	<p style="text-align: center;"><b>STANDARD CASTER</b></p> <div style="text-align: center;">  </div>

**Project Specific U-Factor  
Example Calculation**  
(Based on OXO Sliding Door Unit)



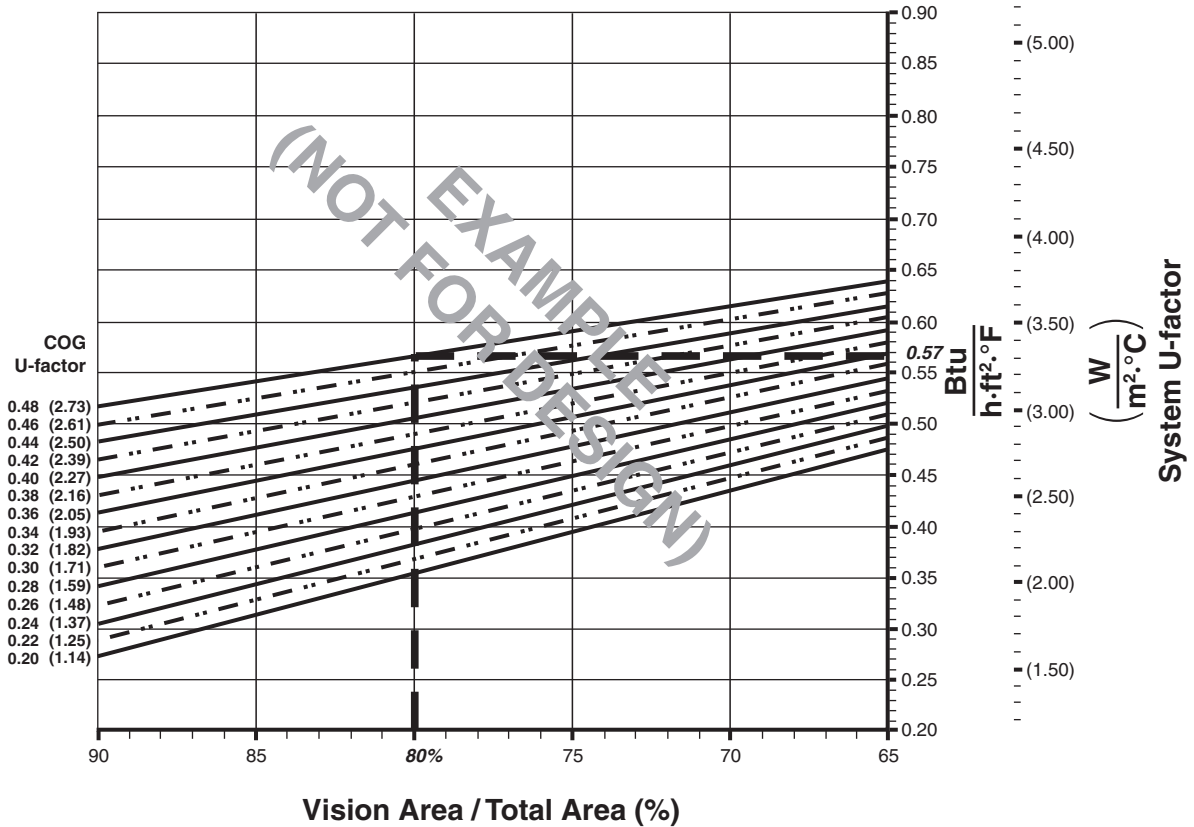
### Vision Area

Example Glass U-Factor	= 0.48 Btu/(ft <sup>2</sup> ·h·°F)
Total Daylight (Vision) Area	= 2(3' x 7') + 1(3' x 6.45') = 61.35 ft <sup>2</sup>
Projected Total Area	= 7.375' x 10.39' = 76.63 ft <sup>2</sup>
Percent of Vision Glass	= (Total Daylight Area ÷ Projected Total Area)100 = (61.35 ÷ 76.63) 100 = 80%

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**System U-Factor vs Percent of Vision Area**



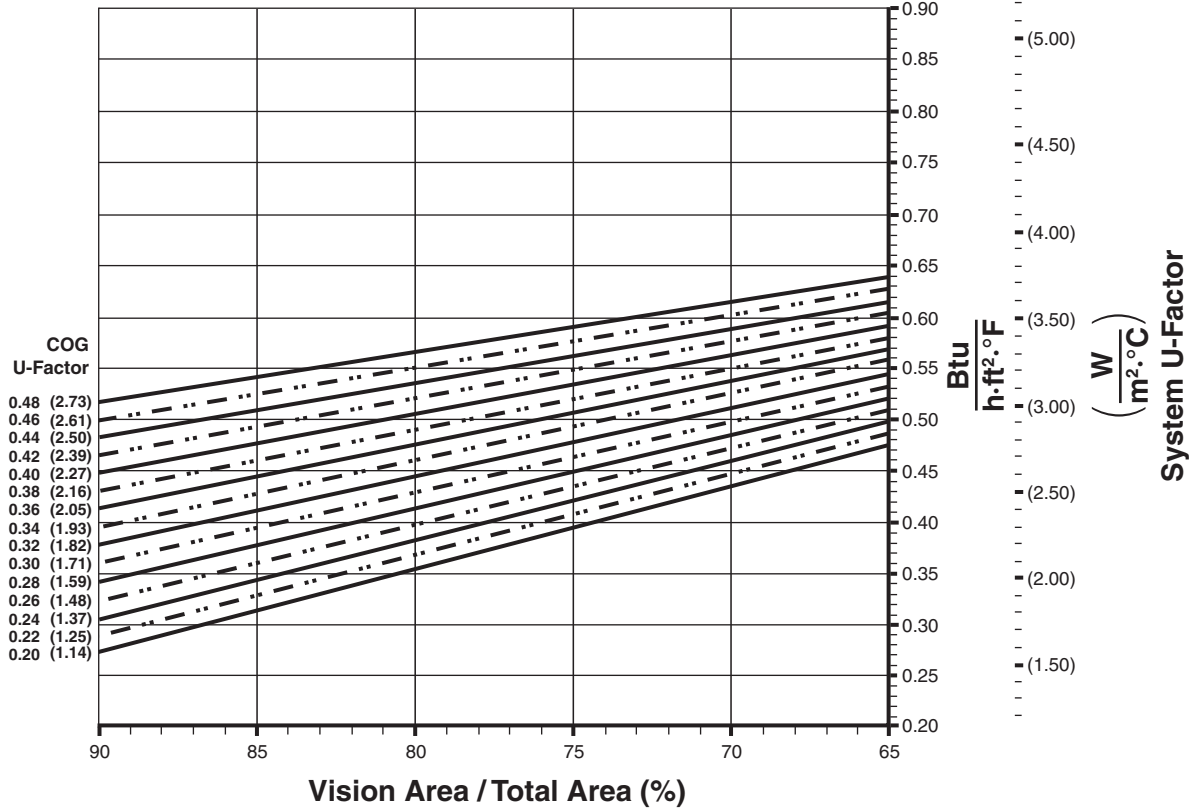
**Based on a OXO Unit of 80% vision glass and center of glass  
U-Factor of 0.48, system U-Factor is equal to 0.57 Btu/(h·ft²·°F)**

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

**System U-Factors for Vision Area**

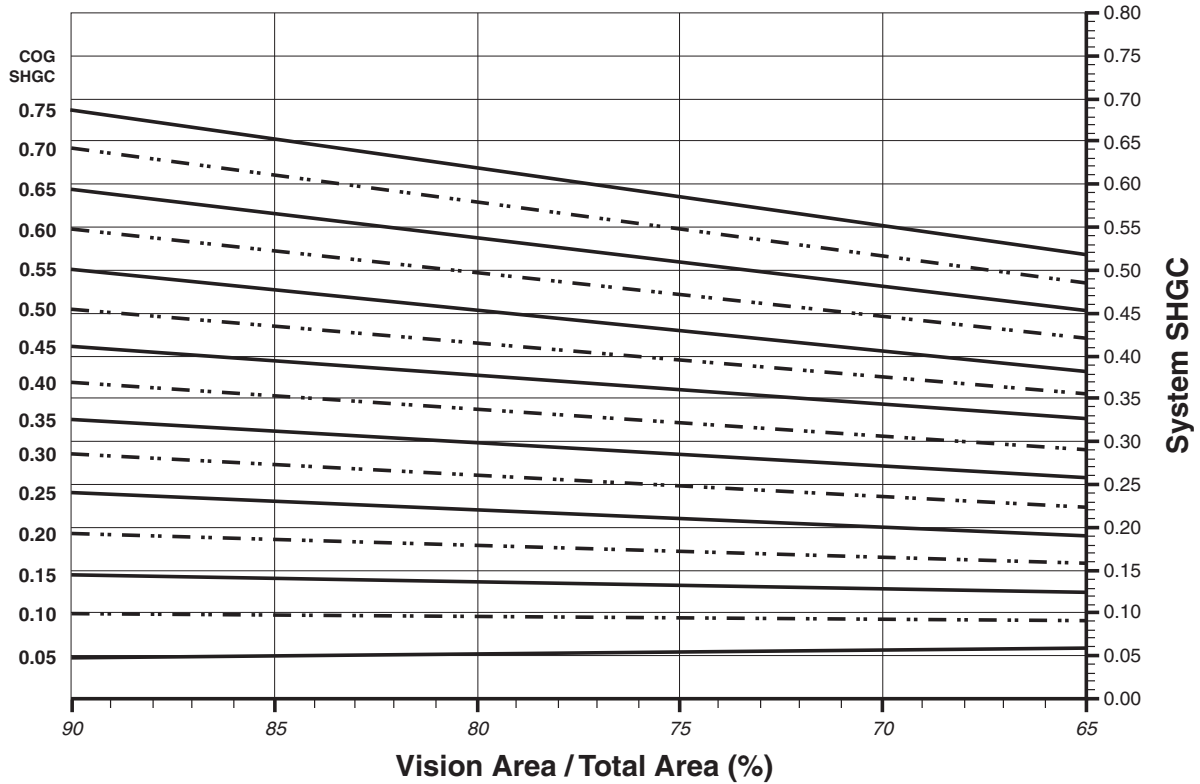


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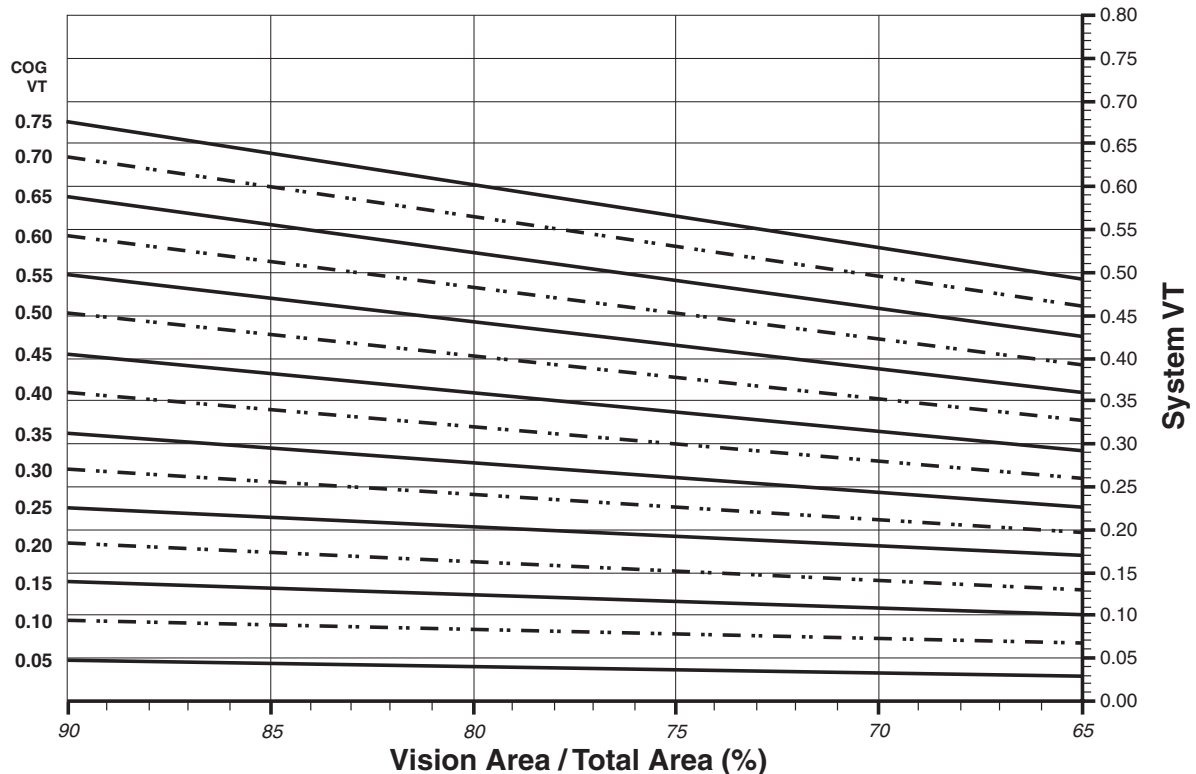
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System Solar Heat Gain Coefficient (SHGC) vs Percent of Vision Area



System Visible Transmittance (VT) vs Percent of Vision Area



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

Glass U-Factor <sup>3</sup>	Overall U-Factor <sup>4</sup>
0.48	0.59
0.46	0.58
0.44	0.56
0.42	0.55
0.40	0.54
0.38	0.52
0.36	0.51
0.34	0.50
0.32	0.48
0.30	0.47
0.28	0.45
0.26	0.44
0.24	0.43
0.22	0.41
0.20	0.40

SHGC Matrix <sup>2</sup>

Glass SHGC <sup>3</sup>	Overall Glass U-Factor <sup>4</sup>
0.75	0.58
0.70	0.54
0.65	0.51
0.60	0.47
0.55	0.43
0.50	0.39
0.45	0.36
0.40	0.32
0.35	0.28
0.30	0.24
0.25	0.21
0.20	0.17
0.15	0.13
0.10	0.10
0.05	0.06

Visible Transmittance <sup>2</sup>

Glass VT <sup>3</sup>	Overall VT <sup>4</sup>
0.75	0.56
0.70	0.52
0.65	0.49
0.60	0.45
0.55	0.41
0.50	0.37
0.45	0.34
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

**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 Matrices are based on the standard NFRC specimen size of 2000mm wide by 2000mm high (78-3/4" by 78-3/4").

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