



**Phius Product Number:** W-101745  
**Date Last Certified:** 11/05/2023  
**THERM Files Available:** No

**Phius Certification Path:** Blue Path  
**Valid Through:** 11/05/2025  
**Air Leakage Test Data Available:** No



**PRODUCT INFORMATION**

<b>Product Name:</b> Kommerling USA 88mm Dual Action Window	
<b>Manufacturer:</b> Kommerling USA	<b>Primary Frame Material:</b> Vinyl
<b>Series:</b> 88mm	<b>Fixed or Operable:</b> Operable
<b>Model:</b> 88mm Dual Action Window	<b>Operation Type:</b> Dual Action Tilt Turn
<b>NFRC CPD #:</b> KOM-K-9-00166-00001	

**IGU DETAILS**

<b>Glazing Name:</b> ClimaGuard® 70 on 5 mm Clear/12.7 mm 90% Argon/ClimaGuard® 70 on 5 mm Clear/12.7 mm 90% Argon/Sungate® 400 on Clear 5mm		
<b>Glass Layers:</b> Triple	<b>Gas Fill:</b> Argon	<b>Spacer:</b> Kommerling Aluminum Spacer

**RECOMMENDED CLIMATE ZONES** *(NOTE: This information is not for use in building energy models. See next section.)*

<b>Recommended Climate Zones and Whole-Window U-values by Zone, at Standard Model Size [Btu/hr·ft²·°F]</b>										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
Recommended Zones	✓	✓	✓	✓	✓	✓	✓			
U-Whole-Window	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.16
<b>Modeled Size [W×H]</b>	47.24" × 59.06"		<b>SHGC, Whole Window:</b> 0.18				<b>Condensation Resistance:</b>			

**COMPONENT-LEVEL PERFORMANCE DATA [IP Units] | Compatible with building energy modeling tools**

<b>U-COG   Center of Glass U-Values, by Climate Zone [Btu/hr·ft²·°F]</b>										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
U-COG Value	0.06	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.09	0.09
<b>SHGC-COG   Center of Glass Solar Heat Gain Coefficient, All Climate Zones</b>								0.26		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
<b>Frame Section</b>	<b>Left</b>	<b>Right</b>	<b>Top</b>	<b>Bottom</b>
<b>Frame Width</b>	4.65"	4.65"	4.65"	4.65"
<b>Frame U-Value [Btu/hr·ft²·°F]</b>	0.27	0.27	0.26	0.26
<b>Glazing-to-Frame Psi Value [Btu/hr·ft·°F]</b>	0.0102	0.0102	0.0103	0.0103
<b>Frame-to-Wall Psi Value</b> is dependent on the on-site installation condition. <i>(See Phius Guidebook for more details.)</i>				



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**RECOMMENDED CLIMATE ZONES** *(NOTE: This information is not for use in building energy models. See next section.)*

Recommended Climate Zones and Whole-Window U-values by Zone, at Standard Model Size [W/m²K]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
Recommended Zones	✓	✓	✓	✓	✓	✓	✓			
U-Whole-Window	0.78	0.80	0.80	0.79	0.81	0.80	0.82	0.83	0.86	0.89
<b>Modeled Size [W × H]</b>	1.20 m × 1.50 m		<b>SHGC, Whole Window:</b> 0.18				<b>Condensation Resistance:</b>			

**COMPONENT-LEVEL PERFORMANCE DATA [SI Units]** | *Compatible with building energy modeling tools*

U-COG   Center of Glass U-Values, by Climate Zone [W/m²K]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
U-COG Value	0.37	0.40	0.40	0.39	0.42	0.41	0.44	0.45	0.50	0.53
SHGC-COG   Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.26		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
<b>Frame Section</b>	<b>Left</b>	<b>Right</b>	<b>Top</b>	<b>Bottom</b>
<b>Frame Width</b>	118 mm	118 mm	118 mm	118 mm
<b>Frame U-Value [W/m²K]</b>	1.51	1.51	1.49	1.49
<b>Glazing-to-Frame Psi Value [W/mK]</b>	0.0178	0.0178	0.0179	0.0179

**Frame-to-Wall Psi Value** is dependent on the on-site installation condition. *(See Phius Guidebook for more details.)*