phius certified product

Phius Product Number: W-101811
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

Product Name: Kommerling USA 88mm Dual Action Window	
Manufacturer: Kommerling USA	**Primary Frame Material:** Vinyl
Series: 88mm	**Fixed or Operable:** Operable
Model: 88mm Dual Action Window	**Operation Type:** Dual Action Tilt Turn
NFRC CPD #: KOM-K-9-00179-00001	

IGU DETAILS

Glazing Name: Solarban 70 on 5 mm Clear/12.7 mm 90% Argon/Solarban 70 on 5 mm Clear/12.7 mm 90% Argon/Sungate® 400 on Clear 5mm

Glass Layers: Triple	**Gas Fill:** Argon	**Spacer:** Kommerling Aluminum Spacer

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 [Btu/hr•ft²•°F]

Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
Recommended Zones	✔	✔	✔	✔	✔	✔	✔			
U-Whole-Window	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16

Modeled Size [W×H] 47.24" × 59.06" **SHGC, Whole Window:** 0.14 **Condensation Resistance:**

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

U-COG | Center of Glass U-Values, by Climate Zone [Btu/hr•ft²•°F]

Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
U-COG Value	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10

SHGC-COG | Center of Glass Solar Heat Gain Coefficient, All Climate Zones	0.20

Frame Parameters	*Left Jamb*	*Right Jamb*	*Head*	*Sill*
Frame Section	**Left**	**Right**	**Top**	**Bottom**
Frame Width	4.65"	4.65"	4.65"	4.65"
Frame U-Value [Btu/hr•ft²•°F]	0.27	0.27	0.26	0.26
Glazing-to-Frame Psi Value [Btu/hr•ft•°F]	0.0097	0.0097	0.0098	0.0097

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

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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	0.88	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.92	0.92

Modeled Size [W ×H] 1.20 m × 1.50 m **SHGC, Whole Window:** 0.14 **Condensation Resistance:**

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	0.52	0.56	0.56	0.56	0.57	0.56	0.57	0.57	0.58	0.59

SHGC-COG | Center of Glass Solar Heat Gain Coefficient, All Climate Zones	0.20

Frame Parameters	*Left Jamb*	*Right Jamb*	*Head*	*Sill*
Frame Section	**Left**	**Right**	**Top**	**Bottom**
Frame Width	118 mm	118 mm	118 mm	118 mm
Frame U-Value [W/m²K]	1.51	1.51	1.50	1.49
Glazing-to-Frame Psi Value [W/mK]	0.0168	0.0168	0.0171	0.0169

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