



Phius Product Number: W-101812
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-9-00180-00001

IGU DETAILS

Glazing Name: LoE452 on 5 mm Clear/12.7 mm 90% Argon/5 mm Clear/12.7 mm 90% Argon/LoE 452 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	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.18

Modeled Size [W×H]

47.24" × 59.06"

SHGC, Whole Window: 0.13

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	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12

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

0.19

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]	0.25	0.25	0.25	0.25
Glazing-to-Frame Psi Value [Btu/hr·ft·°F]	0.0188	0.0188	0.0189	0.0189
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See <i>Phius Guidebook</i> for more details.)				



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Series: 88mm

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Gas Fill: Argon

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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	0.99	0.98	0.98	0.99	0.98	0.98	0.98	0.98	0.99	1.00

Modeled Size [W × H] 1.20 m × 1.50 m

SHGC, Whole Window: 0.13

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	0.66	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.66	0.67

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

0.19

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/m ² K]	1.44	1.44	1.43	1.43
Glazing-to-Frame Psi Value [W/mK]	0.0327	0.0327	0.0328	0.0328
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				