



Phius Product Number: W-101307
Date Last Certified: 08/15/2023
THERM Files Available: No

Phius Certification Path: Blue Path
Valid Through: 08/15/2025
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Kommerling 76MD Tilt Turn

Manufacturer: Kommerling USA

Primary Frame Material: Vinyl

Series: 76MD

Fixed or Operable: Operable

Model: 76MD Tilt & Turn

Operation Type: Dual Action Tilt Turn

NFRC CPD #: KOM-K-3-00055-00001

IGU DETAILS

Glazing Name: 6mm CLEAR/AIR/CLEAR 5mm / .090 SGP / CLEAR 5mm

Glass Layers: Double

Gas Fill: Air

Spacer: Kommerling A1-D - Anodized Aluminum

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	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41
Modeled Size [W×H]	47.24" × 59.06"		SHGC, Whole Window: 0.45				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	0.45	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.45	0.45
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.67		

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·ft ² ·°F]	0.29	0.29	0.29	0.29
Glazing-to-Frame Psi Value [Btu/hr·ft·°F]	0.0086	0.0086	0.0086	0.0087

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	2.31	2.34	2.34	2.35	2.33	2.34	2.33	2.32	2.32	2.32
Modeled Size [W × H]	1.20 m × 1.50 m		SHGC, Whole Window: 0.45				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	2.57	2.62	2.62	2.62	2.60	2.61	2.59	2.59	2.58	2.58
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.67		

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]	1.67	1.67	1.64	1.64
Glazing-to-Frame Psi Value [W/mK]	0.0149	0.0149	0.0149	0.0151

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