



Phius Product Number: W-101613
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: Yawal USA TM 102 Fixed	
Manufacturer: Yawal USA	Primary Frame Material: Aluminum
Series: TM 102	Fixed or Operable: Fixed
Model: TM 102 Fixed	Operation Type: Fixed
NFRC CPD #: YAW-K-3-00009-00001	

IGU DETAILS

Glazing Name: 4mm Cool-Lite SKN 176 II/Argon 90%/4 mm Clear/Argon 90%/4mm Planitherm XN II		
Glass Layers: Triple	Gas Fill: Argon	Spacer: SWISSPACER ULTIMATE

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	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.16
Modeled Size [W×H]	47.24" × 59.06"		SHGC, Whole Window: 0.25				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	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.12
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.30		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	2.36"	2.36"	2.36"	2.36"
Frame U-Value [Btu/hr·ft²·°F]	0.31	0.31	0.29	0.31
Glazing-to-Frame Psi Value [Btu/hr·ft·°F]	0.0042	0.0042	0.0041	0.0042
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/m ² K]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
Recommended Zones	✓	✓	✓	✓	✓	✓	✓			
U-Whole-Window	0.78	0.78	0.78	0.78	0.79	0.79	0.80	0.81	0.85	0.88
Modeled Size [W × H]	1.20 m × 1.50 m		SHGC, Whole Window: 0.25				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/m ² K]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
U-COG Value	0.57	0.57	0.57	0.57	0.58	0.57	0.59	0.60	0.65	0.69
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.30		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	60 mm	60 mm	60 mm	60 mm
Frame U-Value [W/m²K]	1.74	1.74	1.65	1.74
Glazing-to-Frame Psi Value [W/mK]	0.0073	0.0073	0.0071	0.0073
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				