



Phius Product Number: W-101618
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-3-00013-00001

IGU DETAILS

Glazing Name: 4mm Clear/Argon 90%/4mm ECLAZ II/Argon 90%/4mm ECLAZ II/Argon 90%/4mm ECLAZ II

Glass Layers: Quad

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	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11

Modeled Size [W×H]

47.24" × 59.06"

SHGC, Whole Window: 0.42

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	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08

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

0.51

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·ft ² ·°F]	0.26	0.26	0.25	0.25
Glazing-to-Frame Psi Value [Btu/hr·ft·°F]	0.0050	0.0050	0.0050	0.0050

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	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.63	0.64
Modeled Size [W × H]	1.20 m × 1.50 m				SHGC, Whole Window: 0.42			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	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.43	0.45
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.51		

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/m ² K]	1.45	1.45	1.44	1.44
Glazing-to-Frame Psi Value [W/mK]	0.0087	0.0087	0.0087	0.0087

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