



**Phius Product Number:** W-101615  
**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**

<b>Product Name:</b> Yawal USA TM 102 Fixed	
<b>Manufacturer:</b> Yawal USA	<b>Primary Frame Material:</b> Aluminum
<b>Series:</b> TM 102	<b>Fixed or Operable:</b> Fixed
<b>Model:</b> TM 102 Fixed	<b>Operation Type:</b> Fixed
<b>NFRC CPD #:</b> YAW-K-3-00011-00001	

**IGU DETAILS**

<b>Glazing Name:</b> 4mm Planitherm One II/Argon 90%/4mm Clear/Argon 90%/4mm Planitherm XN II		
<b>Glass Layers:</b> Triple	<b>Gas Fill:</b> Argon	<b>Spacer:</b> 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·ft <sup>2</sup> ·°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: 0.34			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·ft <sup>2</sup> ·°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	0.11	0.11	0.11	0.12
SHGC-COG   Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.41		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
<b>Frame Section</b>	<b>Left</b>	<b>Right</b>	<b>Top</b>	<b>Bottom</b>
<b>Frame Width</b>	2.36"	2.36"	2.36"	2.36"
<b>Frame U-Value [Btu/hr·ft<sup>2</sup>·°F]</b>	0.31	0.31	0.29	0.31
<b>Glazing-to-Frame Psi Value [Btu/hr·ft·°F]</b>	0.0042	0.0042	0.0039	0.0042
<b>Frame-to-Wall Psi Value</b> is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



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<b>Manufacturer:</b> Yawal USA	<b>Primary Frame Material:</b> Aluminum
<b>Series:</b> TM 102	<b>Fixed or Operable:</b> Fixed
<b>Model:</b> TM 102 Fixed	<b>Operation Type:</b> Fixed
<b>NFRC CPD #:</b> YAW-K-3-00011-00001	

**IGU DETAILS**

<b>Glazing Name:</b> 4mm Planitherm One II/Argon 90%/4mm Clear/Argon 90%/4mm Planitherm XN II		
<b>Glass Layers:</b> Triple	<b>Gas Fill:</b> Argon	<b>Spacer:</b> 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 [W/m <sup>2</sup> K]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
Recommended Zones					✓	✓	✓			
U-Whole-Window	0.79	0.79	0.79	0.79	0.80	0.79	0.81	0.82	0.85	0.89
Modeled Size [W × H]	1.20 m × 1.50 m			SHGC, Whole Window: 0.34			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 <sup>2</sup> K]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
U-COG Value	0.57	0.58	0.58	0.57	0.58	0.58	0.60	0.61	0.65	0.69
SHGC-COG   Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.41		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
<b>Frame Section</b>	<b>Left</b>	<b>Right</b>	<b>Top</b>	<b>Bottom</b>
<b>Frame Width</b>	60 mm	60 mm	60 mm	60 mm
<b>Frame U-Value</b> [W/m <sup>2</sup> K]	1.74	1.74	1.65	1.75
<b>Glazing-to-Frame Psi Value</b> [W/mK]	0.0073	0.0073	0.0069	0.0073
<b>Frame-to-Wall Psi Value</b> is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				