



**Phius Product Number:** W-102105  
**Date Last Certified:** 09/18/2024  
**THERM Files Available:** No

**Phius Certification Path:** Orange Path  
**Valid Through:** 09/18/2026  
**Air Leakage Test Data Available:** No



**PRODUCT INFORMATION**

<b>Product Name:</b> Amberline 76mm Renovation Double Fixed Window	
<b>Manufacturer:</b> Amberline Windows & Doors	<b>Primary Frame Material:</b> Vinyl
<b>Series:</b> 76mm Renovation	<b>Fixed or Operable:</b> Fixed
<b>Model:</b> 76mm Renovation Double Fixed Window	<b>Operation Type:</b> Fixed
<b>Number of Lites:</b> Two-Lite	<b>Two-Lite Orientation:</b> Horizontal

**IGU DETAILS**

<b>Glazing Name:</b> TH 1.1 / TH 1.1		
<b>Glass Layers:</b> Triple	<b>Gas Fill:</b> Argon	<b>Spacer:</b> ALU-PRO MULTITECH G

**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	0.13	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15
Modeled Size [W×H]	94.49" × 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·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	0.12	0.12
SHGC-COG   Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.53		

Frame Parameters	Left Jamb	Right Meeting Rail	Left Head	Left Sill
<b>Frame Section</b>	<b>Left</b>	<b>Right</b>	<b>Top</b>	<b>Bottom</b>
Frame Width	3.31"	1.93"	3.31"	3.31"
Frame U-Value [Btu/hr·ft <sup>2</sup> ·°F]	0.21	0.24	0.21	0.21
Glazing-to-Frame Psi Value [Btu/hr·ft <sup>2</sup> ·°F]	0.0138	0.0136	0.0140	0.0140

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

Frame Parameters, Lite-Two	Left Meeting Rail	Right Jamb	Right Head	Right Sill
<b>Frame Section</b>	<b>Left</b>	<b>Right</b>	<b>Top</b>	<b>Bottom</b>
Frame Width	1.93"	3.31"	3.31"	3.31"
Frame U-Value [Btu/hr·ft <sup>2</sup> ·°F]	0.24	0.21	0.21	0.21
Glazing-to-Frame Psi Value [Btu/hr·ft <sup>2</sup> ·°F]	0.0113	0.0138	0.0140	0.0140

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

For horizontal two-lite products, assume Lite One is on the left and Lite Two is on the right. The right jamb of Lite One is the right meeting rail. The left jamb of Lite Two is the left meeting rail. | 09/20/2024



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<b>Glazing Name:</b> TH 1.1 / TH 1.1		
<b>Glass Layers:</b> Triple	<b>Gas Fill:</b> Argon	<b>Spacer:</b> ALU-PRO MULTITECH G

**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	0.76	0.78	0.78	0.78	0.78	0.78	0.80	0.81	0.85	0.88
Modeled Size [W × H]	2.40 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/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	0.56	0.58	0.58	0.58	0.58	0.57	0.60	0.61	0.67	0.70
SHGC-COG   Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.53		

Frame Parameters	Left Jamb	Right Meeting Rail	Left Head	Left Sill
<b>Frame Section</b>	<b>Left</b>	<b>Right</b>	<b>Top</b>	<b>Bottom</b>
Frame Width	84 mm	49 mm	84 mm	84 mm
Frame U-Value [W/m <sup>2</sup> K]	1.21	1.38	1.22	1.22
Glazing-to-Frame Psi Value [W/mK]	0.024	0.0236	0.0243	0.0243

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

Frame Parameters, Lite-Two	Left Meeting Rail	Right Jamb	Right Head	Right Sill
<b>Frame Section</b>	<b>Left</b>	<b>Right</b>	<b>Top</b>	<b>Bottom</b>
Frame Width	49 mm	84 mm	84 mm	84 mm
Frame U-Value [W/m <sup>2</sup> K]	1.38	1.21	1.22	1.22
Glazing-to-Frame Psi Value [W/mK]	0.0197	0.024	0.0243	0.0243

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

For horizontal two-lite products, assume Lite One is on the left and Lite Two is on the right. The right jamb of Lite One is the right meeting rail. The left jamb of Lite Two is the left meeting rail. | 09/20/2024