



**Phius Product Number:** W-102116  
**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 Dual Action Window	
<b>Manufacturer:</b> Amberline Windows & Doors	<b>Primary Frame Material:</b> Vinyl
<b>Series:</b> 76mm Renovation	<b>Fixed or Operable:</b> Operable
<b>Model:</b> 76mm Renovation Dual Action Window	<b>Operation Type:</b> Dual Action Tilt Turn

IGU DETAILS		
<b>Glazing Name:</b> TH 1.0 / TH 1.0		
<b>Glass Layers:</b> Triple	<b>Gas Fill:</b> Argon	<b>Spacer:</b> ALU-PRO MULTITECH G

RECOMMENDED CLIMATE ZONES <i>(NOTE: This information is not for use in building energy models. See next section.)</i>										
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	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16
Modeled Size [W×H]	47.24" × 59.06"		SHGC, Whole Window: 0.23				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	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.11	0.11
SHGC-COG   Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.35		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	4.92"	4.92"	4.92"	4.92"
Frame U-Value [Btu/hr·ft <sup>2</sup> ·°F]	0.22	0.22	0.22	0.22
Glazing-to-Frame Psi Value [Btu/hr·ft <sup>2</sup> ·°F]	0.0138	0.0138	0.0136	0.0137

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



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<b>Series:</b> 76mm Renovation	<b>Fixed or Operable:</b> Operable
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IGU DETAILS		
<b>Glazing Name:</b> TH 1.0 / TH 1.0		
<b>Glass Layers:</b> Triple	<b>Gas Fill:</b> Argon	<b>Spacer:</b> ALU-PRO MULTITECH G

RECOMMENDED CLIMATE ZONES <i>(NOTE: This information is not for use in building energy models. See next section.)</i>										
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
<b>Recommended Zones</b>	✓	✓	✓	✓	✓	✓	✓			
<b>U-Whole-Window</b>	0.83	0.83	0.83	0.83	0.83	0.82	0.84	0.85	0.89	0.91
<b>Modeled Size [W × H]</b>	1.20 m × 1.50 m		<b>SHGC, Whole Window:</b> 0.23				<b>Condensation Resistance:</b>			

**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
<b>U-COG Value</b>	0.53	0.52	0.52	0.52	0.52	0.52	0.55	0.56	0.62	0.65
<b>SHGC-COG   Center of Glass Solar Heat Gain Coefficient, All Climate Zones</b>								0.35		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
<b>Frame Width</b>	125 mm	125 mm	125 mm	125 mm
<b>Frame U-Value [W/m<sup>2</sup>K]</b>	1.25	1.25	1.25	1.25
<b>Glazing-to-Frame Psi Value [W/mK]</b>	0.024	0.024	0.0237	0.0238

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