



Phius Product Number: W-102111
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

Product Name: Amberline 76mm Renovation Dual Action+Fixed Window	
Manufacturer: Amberline Windows & Doors	Primary Frame Material: Vinyl
Series: 76mm Renovation	Fixed or Operable: Combination
Model: 76mm Renovation Dual Action+Fixed Window	Operation Type: Combination Unit
Number of Lites: Two-Lite	Two-Lite Orientation: Horizontal

IGU DETAILS

Glazing Name: TH 1.1 / TH 1.1		
Glass Layers: Triple	Gas Fill: Argon	Spacer: 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 ² ·°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	0.15	0.15	0.16	0.16
Modeled Size [W×H]	94.49" × 59.06"			SHGC, Whole Window: 0.39			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 ² ·°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
Frame Section	Left	Right	Top	Bottom
Frame Width	4.92"	2.72"	4.92"	4.92"
Frame U-Value [Btu/hr·ft ² ·°F]	0.22	0.19	0.22	0.22
Glazing-to-Frame Psi Value [Btu/hr·ft ² ·°F]	0.0138	0.0131	0.0137	0.0137

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
Frame Section	Left	Right	Top	Bottom
Frame Width	2.72"	3.31"	3.31"	3.31"
Frame U-Value [Btu/hr·ft ² ·°F]	0.28	0.21	0.21	0.21
Glazing-to-Frame Psi Value [Btu/hr·ft ² ·°F]	0.0140	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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Model: 76mm Renovation Dual Action+Fixed Window	Operation Type: Combination Unit
Number of Lites: Two-Lite	Two-Lite Orientation: Horizontal

IGU DETAILS

Glazing Name: TH 1.1 / TH 1.1		
Glass Layers: Triple	Gas Fill: Argon	Spacer: 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 ² K]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
Recommended Zones					✓	✓	✓			
U-Whole-Window	0.80	0.82	0.82	0.82	0.82	0.82	0.83	0.85	0.88	0.91
Modeled Size [W × H]	2.40 m × 1.50 m			SHGC, Whole Window: 0.39			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	0.56	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
Frame Section	Left	Right	Top	Bottom
Frame Width	125 mm	69 mm	125 mm	125 mm
Frame U-Value [W/m ² K]	1.25	1.10	1.25	1.25
Glazing-to-Frame Psi Value [W/mK]	0.024	0.0228	0.0238	0.0238

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
Frame Section	Left	Right	Top	Bottom
Frame Width	69 mm	84 mm	84 mm	84 mm
Frame U-Value [W/m ² K]	1.61	1.21	1.22	1.22
Glazing-to-Frame Psi Value [W/mK]	0.0244	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.)

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