



Phius Product Number: W-102523
Date Last Certified: 07/03/2025
THERM Files Available: No

Phius Certification Path: Blue Path
Valid Through: 07/03/2027
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: VPI Endurance Vinyl Casement

Manufacturer: VPI Quality Windows Inc

Primary Frame Material: Vinyl

Series: Endurance

Fixed or Operable: Operable

Model: Endurance Vinyl Casement

Operation Type: Casement

NFRC CPD #: VPI-A-19-08464-00001

IGU DETAILS

Glazing Name: LE366-LE180-LEi89 SN (3mm-3mm-5mm 1 3/8"IG)

Glass Layers: Triple

Gas Fill: Argon

Spacer: Cardinal Endur

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	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17

Modeled Size [W×H]

23.62" × 59.06"

SHGC, Whole Window: 0.15

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	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12

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

0.24

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	3.23"	3.23"	3.27"	3.27"
Frame U-Value [Btu/hr·ft ² ·°F]	0.24	0.24	0.25	0.26
Glazing-to-Frame Psi Value [Btu/hr·ft·°F]	0.0094	0.0094	0.0080	0.0079

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



Phius Product Number: W-102523
Date Last Certified: 07/03/2025
THERM Files Available: No

Phius Certification Path: Blue Path
Valid Through: 07/03/2027
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: VPI Endurance Vinyl Casement

Manufacturer: VPI Quality Windows Inc

Primary Frame Material: Vinyl

Series: Endurance

Fixed or Operable: Operable

Model: Endurance Vinyl Casement

Operation Type: Casement

NFRC CPD #: VPI-A-19-08464-00001

IGU DETAILS

Glazing Name: LE366-LE180-LEi89 SN (3mm-3mm-5mm 1 3/8"IG)

Glass Layers: Triple

Gas Fill: Argon

Spacer: Cardinal Endur

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	0.94	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.98

Modeled Size [W × H] 0.60 m × 1.50 m

SHGC, Whole Window: 0.15

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	0.60	0.64	0.64	0.64	0.65	0.64	0.65	0.65	0.65	0.66

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

0.24

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	82 mm	82 mm	83 mm	83 mm
Frame U-Value [W/m ² K]	1.36	1.37	1.41	1.45
Glazing-to-Frame Psi Value [W/mK]	0.0164	0.0164	0.0139	0.0137

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