



Phius Product Number: W-101725
Date Last Certified: 11/01/2023
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 11/01/2025
Air Leakage Test Data Available: Yes



PRODUCT INFORMATION

Product Name: Innotech 88PH+ XI Operable Window

Manufacturer: Innotech Windows + Doors

Primary Frame Material: Vinyl

Series: 88PH+ XI

Fixed or Operable: Operable

Model: 88PH+ XI Operable Window

Operation Type: Dual Action Tilt Turn

IGU DETAILS

Glazing Name: 4-180/4-CLR/4-180_46

Glass Layers: Triple

Gas Fill: Argon

Spacer: Quanex Super Spacer Premium

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	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13

Modeled Size [W×H]

47.24" × 59.06"

SHGC, Whole Window: 0.36

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	0.12	0.13

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

0.56

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	5.20"	5.20"	5.20"	5.20"
Frame U-Value [Btu/hr·ft ² ·°F]	0.11	0.11	0.11	0.11
Glazing-to-Frame Psi Value [Btu/hr·ft ² ·°F]	0.0152	0.0152	0.0152	0.0152
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



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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	0.70	0.69	0.69	0.69	0.69	0.69	0.69	0.70	0.74	0.76

Modeled Size [W × H]

1.20 m × 1.50 m

SHGC, Whole Window: 0.36

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	0.63	0.62	0.62	0.62	0.61	0.61	0.62	0.64	0.69	0.72

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

0.56

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	132 mm	132 mm	132 mm	132 mm
Frame U-Value [W/m ² K]	0.63	0.63	0.65	0.65
Glazing-to-Frame Psi Value [W/mK]	0.0264	0.0264	0.0264	0.0264
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				