



Phius Product Number: W-101086
Date Last Certified: 04/17/2025
THERM Files Available: No

Phius Certification Path: Blue Path
Valid Through: 04/17/2027
Air Leakage Test Data Available: Yes



PRODUCT INFORMATION

Product Name: Innotech Defender 76TS Fixed Window

Manufacturer: Innotech Windows + Doors

Primary Frame Material: Vinyl

Series: Defender 76TS

Fixed or Operable: Fixed

Model: Defender 76TS Fixed

Operation Type: Fixed

NFRC CPD #: INN-M-16-01259-00001

IGU DETAILS

Glazing Name: 366 / Arg / 180 / Arg / i89 - 35mm(6mm-5mm-5mm)

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	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17

Modeled Size [W×H]

47.24" × 59.06"

SHGC, Whole Window: 0.18

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	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13

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

0.23

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	3.07"	3.07"	3.07"	3.07"
Frame U-Value [Btu/hr·ft ² ·°F]	0.24	0.24	0.23	0.24
Glazing-to-Frame Psi Value [Btu/hr·ft·°F]	0.0156	0.0156	0.0154	0.0154

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	0.89	0.94	0.94	0.94	0.94	0.94	0.95	0.95	0.94	0.94
Modeled Size [W × H]	1.20 m × 1.50 m		SHGC, Whole Window: 0.18				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	0.67	0.74	0.74	0.73	0.74	0.74	0.74	0.74	0.74	0.74

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

0.23

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	78 mm	78 mm	78 mm	78 mm
Frame U-Value [W/m ² K]	1.36	1.36	1.33	1.34
Glazing-to-Frame Psi Value [W/mK]	0.027	0.027	0.0267	0.0267

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