



Phius Product Number: D-100126
Date Last Certified: 08/15/2023
THERM Files Available: No

Phius Certification Path: Blue Path
Valid Through: 08/15/2025
Air Leakage Test Data Available: Yes



PRODUCT INFORMATION

Product Name: Innotech Defender PD76 Lift + Slide Door

Manufacturer: Innotech Windows + Doors

Primary Frame Material: Vinyl

Series: Defender PD76

Operation Category: Sliding Door

Model: Defender PD76 Lift + Slide Door

Operation Type: Lift Slide Door

NFRC CPD #: UNK-N-1000-10000 | **NFRC CPD # Lite Two:** UNK-N-1000-10000

IGU DETAILS

Glazing Name: 180 / Arg /Clr / Arg / 180 - 35mm(6mm-6mm-6mm)

Glass Layers: Triple

Gas Fill: Argon

Spacer Model: Cardinal Endur

RECOMMENDED CLIMATE ZONES (NOTE: This information is not for use in building energy models. See next section.)

Recommended Climate Zones and Whole-Door 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-Door	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Modeled Size [W × H]	78.74" × 78.74"		SHGC, Whole Door: 0.38				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	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.17

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

0.51

Frame Parameters	Left Jamb	Right Meeting Rail	Left Head	Left Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	7.17"	2.09"	7.17"	6.06"
Frame U-Value [Btu/hr·ft ² ·°F]	0.25	0.48	0.25	0.26
Glazing-to-Frame Psi Value [Btu/hr·ft ² ·°F]	0.0120	0.0150	0.0117	0.0130

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	7.17"	2.09"	7.17"	6.06"
Frame U-Value [Btu/hr·ft ² ·°F]	0.19	0.22	0.24	0.24
Glazing-to-Frame Psi Value [Btu/hr·ft ² ·°F]	0.0115	0.0112	0.0110	0.0053

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

For horizontal two-lite doors, 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. | 10/31/2023



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Model: Defender PD76 Lift + Slide Door

Operation Type: Lift Slide Door

NFRC CPD #: UNK-N-1000-10000 | **NFRC CPD # Lite Two:** UNK-N-1000-10000

IGU DETAILS

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Glass Layers: Triple

Gas Fill: Argon

Spacer Model: Cardinal Endur

RECOMMENDED CLIMATE ZONES (NOTE: This information is not for use in building energy models. See next section.)

Recommended Climate Zones and Whole-Door 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-Door	1.26	1.26	1.26	1.26	1.25	1.26	1.25	1.25	1.24	1.24
Modeled Size [W × H]	2.00 m × 2.00 m		SHGC, Whole Door: 0.38				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	1.03	1.02	1.02	1.03	1.02	1.02	1.01	1.01	1.00	0.99

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

0.51

Frame Parameters	Left Jamb	Right Meeting Rail	Left Head	Left Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	182 mm	53 mm	182 mm	154 mm
Frame U-Value [W/m ² K]	1.40	2.71	1.43	1.46
Glazing-to-Frame Psi Value [W/mK]	0.0208	0.0261	0.0204	0.0225

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	182 mm	53 mm	182 mm	154 mm
Frame U-Value [W/m ² K]	1.10	1.26	1.36	1.35
Glazing-to-Frame Psi Value [W/mK]	0.02	0.0195	0.0191	0.0093

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

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