



PhiUS Product Number: W-101679
Date Last Certified: 08/21/2023
THERM Files Available: No

PhiUS Certification Path: Blue Path
Valid Through: 08/21/2025
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Yawal USA FA 50N Curtain Wall

Manufacturer: Yawal USA

Primary Frame Material: Aluminum

Series: FA 50N

Fixed or Operable: Fixed

Model: USA FA 50N Curtain Wall

Operation Type: Curtain Wall

Number of Lites: Two-Lite

Two-Lite Orientation: Horizontal

NFRC CPD #: YAW-K-8-00022-00001

IGU DETAILS

Glazing Name: 6mm Clear/Krypton 90%/6mm ECLAZ II/ Krypton 90%/ 6mm ECLAZ II

Glass Layers: Triple

Gas Fill: Krypton

Spacer: SWISSPACER ULTIMATE

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	0.15	0.14	0.14	0.15	0.15	0.14	0.15	0.15	0.15	0.15

Modeled Size [W×H]

78.74" × 78.74"

SHGC, Whole Window: 0.51

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	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11

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

0.54

Frame Parameters	Left Jamb	Right Jamb	Left Head	Left Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	1.02"	1.02"	1.10"	1.10"
Frame U-Value [Btu/hr·ft²·°F]	0.67	0.67	0.59	0.60
Glazing-to-Frame Psi Value [Btu/hr·ft·°F]	0.0052	0.0052	0.0052	0.0052

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

Frame Parameters, Lite-Two	Left Jamb	Right Jamb	Right Head	Right Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	1.02"	1.02"	1.10"	1.10"
Frame U-Value [Btu/hr·ft²·°F]	0.67	0.67	0.59	0.60
Glazing-to-Frame Psi Value [Btu/hr·ft·°F]	0.0052	0.0052	0.0052	0.0052

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

Curtain walls are rated as horizontal two-lite products with Lite One on the left. All framing members for each lite are at half their width. In building energy modeling, double the frame width value in order to obtain the full frame width for the lites at the edges of the curtain wall. | 01/08/2025



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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	0.83	0.82	0.82	0.82	0.82	0.82	0.83	0.83	0.85	0.87
Modeled Size [W × H]	2.00 m × 2.00 m		SHGC, Whole Window: 0.51				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	0.57	0.56	0.56	0.56	0.56	0.56	0.57	0.57	0.59	0.62

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

0.54

Frame Parameters	Left Jamb	Right Jamb	Left Head	Left Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	26 mm	26 mm	28 mm	28 mm
Frame U-Value [W/m ² K]	3.82	3.82	3.37	3.39
Glazing-to-Frame Psi Value [W/mK]	0.0091	0.0091	0.0091	0.009

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

Frame Parameters, Lite-Two	Left Jamb	Right Jamb	Right Head	Right Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	26 mm	26 mm	28 mm	28 mm
Frame U-Value [W/m ² K]	3.82	3.82	3.37	3.39
Glazing-to-Frame Psi Value [W/mK]	0.0091	0.0091	0.0091	0.009

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

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