

Casement

NFRC family PNS-K-22

Manufacturer: Panes Window Manufacturing Inc. · Directory checked 2026-10-08.

Five reference glass configurations without grilles. Follow the directory link for the complete family listing and match the frame system, glass and CPD number to the window being ordered.

Glass configuration / manufacturer code	U-factor Btu/(h·ft²·°F)	U-factor W/(m²·K)*	SHGC	VT	NFRC CPD number
Double pane · Low-E 180 / clear CCI-arg97-180 ss	0.26	1.48	0.45	0.52	PNS-K-22-00001-00001
Double pane · Low-E 272 / clear CCI-arg97-272 ss	0.25	1.42	0.33	0.47	PNS-K-22-00003-00001
Double pane · Low-E 366 / clear CCI-arg97-366 ss	0.25	1.42	0.26	0.42	PNS-K-22-00005-00001
Triple pane · Low-E 180 / clear / Low-E 180 180-arg97-CCI-arg97-180 ss	0.17	0.97	0.37	0.46	PNS-K-22-00013-00001
Triple pane · Low-E 272 / clear / Low-E 272 272-arg97-CCI-arg97-272 ss	0.16	0.91	0.23	0.37	PNS-K-22-00015-00001

* Metric U-factor is converted from the directory’s rounded US value using 5.678263. SHGC and VT are dimensionless.

Reading the numbers: Lower U-factor means less whole-window heat transfer. SHGC describes admitted solar heat; VT describes admitted visible light. Compare the three metrics together with orientation, shading and project requirements.

Matching the order: Different glass, grilles, frame systems and joined assemblies can have different ratings. Confirm the applicable label and complete product specification. ENERGY STAR qualification has separate requirements; this reference is not a product label or a prediction of utility savings.

Official NFRC directory: https://search.nfrc.org/search/cpd/cpd_search_detail.aspx?cpdnum=PNS-K-22

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Awning

NFRC family PNS-K-23

Manufacturer: Panes Window Manufacturing Inc. · Directory checked 2026-10-08.

Five reference glass configurations without grilles. Follow the directory link for the complete family listing and match the frame system, glass and CPD number to the window being ordered.

Glass configuration / manufacturer code	U-factor Btu/(h·ft²·°F)	U-factor W/(m²·K)*	SHGC	VT	NFRC CPD number
Double pane · Low-E 180 / clear CCI-arg97-180 ss	0.26	1.48	0.45	0.52	PNS-K-23-00001-00001
Double pane · Low-E 272 / clear CCI-arg97-272 ss	0.25	1.42	0.33	0.47	PNS-K-23-00003-00001
Double pane · Low-E 366 / clear CCI-arg97-366 ss	0.25	1.42	0.26	0.42	PNS-K-23-00005-00001
Triple pane · Low-E 180 / clear / Low-E 180 180-arg97-CCI-arg97-180 ss	0.17	0.97	0.37	0.46	PNS-K-23-00013-00001
Triple pane · Low-E 272 / clear / Low-E 272 272-arg97-CCI-arg97-272 ss	0.16	0.91	0.23	0.37	PNS-K-23-00015-00001

* Metric U-factor is converted from the directory’s rounded US value using 5.678263. SHGC and VT are dimensionless.

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Matching the order: Different glass, grilles, frame systems and joined assemblies can have different ratings. Confirm the applicable label and complete product specification. ENERGY STAR qualification has separate requirements; this reference is not a product label or a prediction of utility savings.

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Low Profile Fixed

NFRC family PNS-K-24

Manufacturer: Panes Window Manufacturing Inc. · Directory checked 2026-10-08.

Five reference glass configurations without grilles. Follow the directory link for the complete family listing and match the frame system, glass and CPD number to the window being ordered.

Glass configuration / manufacturer code	U-factor Btu/(h·ft²·°F)	U-factor W/(m²·K)*	SHGC	VT	NFRC CPD number
Double pane · Low-E 180 / clear CCI-arg97-180 ss	0.26	1.48	0.59	0.68	PNS-K-24-00001-00001
Double pane · Low-E 272 / clear CCI-arg97-272 ss	0.25	1.42	0.43	0.62	PNS-K-24-00003-00001
Double pane · Low-E 366 / clear CCI-arg97-366 ss	0.25	1.42	0.34	0.55	PNS-K-24-00005-00001
Triple pane · Low-E 180 / clear / Low-E 180 180-arg97-CCI-arg97-180 ss	0.15	0.85	0.48	0.60	PNS-K-24-00013-00001
Triple pane · Low-E 272 / clear / Low-E 272 272-arg97-CCI-arg97-272 ss	0.14	0.79	0.30	0.49	PNS-K-24-00015-00001

* Metric U-factor is converted from the directory’s rounded US value using 5.678263. SHGC and VT are dimensionless.

Reading the numbers: Lower U-factor means less whole-window heat transfer. SHGC describes admitted solar heat; VT describes admitted visible light. Compare the three metrics together with orientation, shading and project requirements.

Matching the order: Different glass, grilles, frame systems and joined assemblies can have different ratings. Confirm the applicable label and complete product specification. ENERGY STAR qualification has separate requirements; this reference is not a product label or a prediction of utility savings.

Official NFRC directory: https://search.nfrc.org/search/cpd/cpd_search_detail.aspx?cpdnum=PNS-K-24

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High Profile Fixed

NFRC family PNS-K-25

Manufacturer: Panes Window Manufacturing Inc. · Directory checked 2026-10-08.

Five reference glass configurations without grilles. Follow the directory link for the complete family listing and match the frame system, glass and CPD number to the window being ordered.

Glass configuration / manufacturer code	U-factor Btu/(h·ft²·°F)	U-factor W/(m²·K)*	SHGC	VT	NFRC CPD number
Double pane · Low-E 180 / clear CCI-arg97-180 ss	0.25	1.42	0.53	0.61	PNS-K-25-00001-00001
Double pane · Low-E 272 / clear CCI-arg97-272 ss	0.25	1.42	0.39	0.56	PNS-K-25-00003-00001
Double pane · Low-E 366 / clear CCI-arg97-366 ss	0.24	1.36	0.31	0.50	PNS-K-25-00005-00001
Triple pane · Low-E 180 / clear / Low-E 180 180-arg97-CCI-arg97-180 ss	0.15	0.85	0.44	0.54	PNS-K-25-00013-00001
Triple pane · Low-E 272 / clear / Low-E 272 272-arg97-CCI-arg97-272 ss	0.14	0.79	0.27	0.44	PNS-K-25-00015-00001

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Double Slider Tilt Out

NFRC family PNS-K-26

Manufacturer: Panes Window Manufacturing Inc. · Directory checked 2026-10-08.

Five reference glass configurations without grilles. Follow the directory link for the complete family listing and match the frame system, glass and CPD number to the window being ordered.

Glass configuration / manufacturer code	U-factor Btu/(h·ft²·°F)	U-factor W/(m²·K)*	SHGC	VT	NFRC CPD number
Double pane · Low-E 180 / clear CCI-arg97-180 ss	0.29	1.65	0.52	0.60	PNS-K-26-00001-00001
Double pane · Low-E 272 / clear CCI-arg97-272 ss	0.28	1.59	0.38	0.54	PNS-K-26-00003-00001
Double pane · Low-E 366 / clear CCI-arg97-366 ss	0.27	1.53	0.30	0.49	PNS-K-26-00005-00001
Triple pane · Low-E 180 / clear / Low-E 180 180-arg97-CCI-arg97-180 ss	0.24	1.36	0.42	0.53	PNS-K-26-00014-00001
Triple pane · Low-E 272 / clear / Low-E 272 272-arg97-CCI-arg97-272 ss	0.24	1.36	0.27	0.43	PNS-K-26-00018-00001

* Metric U-factor is converted from the directory’s rounded US value using 5.678263. SHGC and VT are dimensionless.

Reading the numbers: Lower U-factor means less whole-window heat transfer. SHGC describes admitted solar heat; VT describes admitted visible light. Compare the three metrics together with orientation, shading and project requirements.

Matching the order: Different glass, grilles, frame systems and joined assemblies can have different ratings. Confirm the applicable label and complete product specification. ENERGY STAR qualification has separate requirements; this reference is not a product label or a prediction of utility savings.

Official NFRC directory: https://search.nfrc.org/search/cpd/cpd_search_detail.aspx?cpdnum=PNS-K-26

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Double Slider Lift Out

NFRC family PNS-K-27

Manufacturer: Panes Window Manufacturing Inc. · Directory checked 2026-10-08.

Five reference glass configurations without grilles. Follow the directory link for the complete family listing and match the frame system, glass and CPD number to the window being ordered.

Glass configuration / manufacturer code	U-factor Btu/(h·ft²·°F)	U-factor W/(m²·K)*	SHGC	VT	NFRC CPD number
Double pane · Low-E 180 / clear CCI-arg97-180 ss	0.28	1.59	0.52	0.60	PNS-K-27-00001-00001
Double pane · Low-E 272 / clear CCI-arg97-272 ss	0.28	1.59	0.38	0.54	PNS-K-27-00003-00001
Double pane · Low-E 366 / clear CCI-arg97-366 ss	0.27	1.53	0.30	0.49	PNS-K-27-00005-00001
Triple pane · Low-E 180 / clear / Low-E 180 180-arg97-CCI-arg97-180 ss	0.24	1.36	0.42	0.53	PNS-K-27-00014-00001
Triple pane · Low-E 272 / clear / Low-E 272 272-arg97-CCI-arg97-272 ss	0.23	1.31	0.27	0.43	PNS-K-27-00018-00001

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Double Hung

NFRC family PNS-K-28

Manufacturer: Panes Window Manufacturing Inc. · Directory checked 2026-10-08.

Five reference glass configurations without grilles. Follow the directory link for the complete family listing and match the frame system, glass and CPD number to the window being ordered.

Glass configuration / manufacturer code	U-factor Btu/(h·ft²·°F)	U-factor W/(m²·K)*	SHGC	VT	NFRC CPD number
Double pane · Low-E 180 / clear CCI-arg97-180 ss	0.28	1.59	0.52	0.60	PNS-K-28-00001-00001
Double pane · Low-E 272 / clear CCI-arg97-272 ss	0.28	1.59	0.38	0.54	PNS-K-28-00003-00001
Double pane · Low-E 366 / clear CCI-arg97-366 ss	0.27	1.53	0.30	0.49	PNS-K-28-00005-00001
Triple pane · Low-E 180 / clear / Low-E 180 180-arg97-CCI-arg97-180 ss	0.24	1.36	0.42	0.53	PNS-K-28-00014-00001
Triple pane · Low-E 272 / clear / Low-E 272 272-arg97-CCI-arg97-272 ss	0.24	1.36	0.27	0.43	PNS-K-28-00018-00001

* Metric U-factor is converted from the directory’s rounded US value using 5.678263. SHGC and VT are dimensionless.

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Single Slider Tilt Out

NFRC family PNS-K-29

Manufacturer: Panes Window Manufacturing Inc. · Directory checked 2026-10-08.

Five reference glass configurations without grilles. Follow the directory link for the complete family listing and match the frame system, glass and CPD number to the window being ordered.

Glass configuration / manufacturer code	U-factor Btu/(h·ft²·°F)	U-factor W/(m²·K)*	SHGC	VT	NFRC CPD number
Double pane · Low-E 180 / clear CCI-arg97-180 ss	0.28	1.59	0.54	0.61	PNS-K-29-00001-00001
Double pane · Low-E 272 / clear CCI-arg97-272 ss	0.28	1.59	0.39	0.56	PNS-K-29-00003-00001
Double pane · Low-E 366 / clear CCI-arg97-366 ss	0.27	1.53	0.31	0.50	PNS-K-29-00005-00001
Triple pane · Low-E 180 / clear / Low-E 180 180-arg97-CCI-arg97-180 ss	0.24	1.36	0.44	0.54	PNS-K-29-00014-00001
Triple pane · Low-E 272 / clear / Low-E 272 272-arg97-CCI-arg97-272 ss	0.23	1.31	0.28	0.45	PNS-K-29-00018-00001

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Single Slider Lift Out

NFRC family PNS-K-30

Manufacturer: Panes Window Manufacturing Inc. · Directory checked 2026-10-08.

Five reference glass configurations without grilles. Follow the directory link for the complete family listing and match the frame system, glass and CPD number to the window being ordered.

Glass configuration / manufacturer code	U-factor Btu/(h·ft²·°F)	U-factor W/(m²·K)*	SHGC	VT	NFRC CPD number
Double pane · Low-E 180 / clear CCI-arg97-180 ss	0.28	1.59	0.54	0.61	PNS-K-30-00001-00001
Double pane · Low-E 272 / clear CCI-arg97-272 ss	0.27	1.53	0.39	0.56	PNS-K-30-00003-00001
Double pane · Low-E 366 / clear CCI-arg97-366 ss	0.27	1.53	0.31	0.50	PNS-K-30-00005-00001
Triple pane · Low-E 180 / clear / Low-E 180 180-arg97-CCI-arg97-180 ss	0.24	1.36	0.44	0.54	PNS-K-30-00014-00001
Triple pane · Low-E 272 / clear / Low-E 272 272-arg97-CCI-arg97-272 ss	0.23	1.31	0.28	0.45	PNS-K-30-00018-00001

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Reading the numbers: Lower U-factor means less whole-window heat transfer. SHGC describes admitted solar heat; VT describes admitted visible light. Compare the three metrics together with orientation, shading and project requirements.

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Official NFRC directory: https://search.nfrc.org/search/cpd/cpd_search_detail.aspx?cpdnum=PNS-K-30

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Single Hung

NFRC family PNS-K-31

Manufacturer: Panes Window Manufacturing Inc. · Directory checked 2026-10-08.

Five reference glass configurations without grilles. Follow the directory link for the complete family listing and match the frame system, glass and CPD number to the window being ordered.

Glass configuration / manufacturer code	U-factor Btu/(h·ft²·°F)	U-factor W/(m²·K)*	SHGC	VT	NFRC CPD number
Double pane · Low-E 180 / clear CCI-arg97-180 ss	0.28	1.59	0.54	0.61	PNS-K-31-00001-00001
Double pane · Low-E 272 / clear CCI-arg97-272 ss	0.27	1.53	0.39	0.56	PNS-K-31-00003-00001
Double pane · Low-E 366 / clear CCI-arg97-366 ss	0.27	1.53	0.31	0.50	PNS-K-31-00005-00001
Triple pane · Low-E 180 / clear / Low-E 180 180-arg97-CCI-arg97-180 ss	0.24	1.36	0.44	0.54	PNS-K-31-00014-00001
Triple pane · Low-E 272 / clear / Low-E 272 272-arg97-CCI-arg97-272 ss	0.23	1.31	0.28	0.45	PNS-K-31-00018-00001

* Metric U-factor is converted from the directory’s rounded US value using 5.678263. SHGC and VT are dimensionless.

Reading the numbers: Lower U-factor means less whole-window heat transfer. SHGC describes admitted solar heat; VT describes admitted visible light. Compare the three metrics together with orientation, shading and project requirements.

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Official NFRC directory: https://search.nfrc.org/search/cpd/cpd_search_detail.aspx?cpdnum=PNS-K-31

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