



ALPEN
HIGH PERFORMANCE PRODUCTS

Zenith Series NFRC Data



03/2021-v5



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Zenith Series ZR-5 NFRC Data

ZR-5	Description		NFRC Full-Frame / Total Unit Performance					Air Infiltration @ 1.57psf	Center-of-Glass (COG) Performance*			
	Glass Package	Use	U-factor	R-value	SHGC	VT	CR		U-factor	R-value	SHGC	VT
Fixed Low Profile <i>Suspended Film</i>	LowGain-5	Low U-factor High Visible Light	0.17	5.9	0.32	0.56	61	<0.01 cfm/ft ²	0.13	7.5	0.36	0.64
	HighGain-5	Maximum Passive Gain and Daylight	0.18	5.6	0.46	0.62	62		0.14	7.2	0.51	0.70
Fixed Low Profile <i>Thin Glass</i>	5M TGT	Low U- High Visible Light	0.20	5.0	0.34	0.59	71	<0.01 cfm/ft ²	0.19	5.3	0.38	0.66
	5L TGT	Lowest Solar Heat Gain Coefficient	0.19	5.3	0.22	0.53	71		0.18	5.6	0.25	0.60
	5H TGT	Maximum Passive Gain and Daylight	0.20	5.0	0.53	0.65	70		0.19	5.3	0.60	0.73
Fixed High Profile <i>Suspended Film</i>	LowGain-5	Low U-factor High Visible Light	0.17	5.9	0.29	0.51	62	<0.01 cfm/ft ²	0.13	7.5	0.36	0.64
	HighGain-5	Maximum Passive Gain and Daylight	0.17	5.9	0.41	0.56	61		0.14	7.2	0.51	0.70
Fixed High Profile <i>Thin Glass</i>	5M TGT	Low U- High Visible Light	0.19	5.3	0.31	0.59	70	<0.01 cfm/ft ²	0.19	5.3	0.38	0.66
	5L TGT	Lowest Solar Heat Gain Coefficient	0.18	5.6	0.20	0.48	71		0.18	5.6	0.25	0.60
	5H TGT	Maximum Passive Gain and Daylight	0.19	5.3	0.48	0.58	70		0.19	5.3	0.60	0.73
Casement <i>Suspended Film</i>	LowGain-5	Low U-factor High Visible Light	0.20	5.0	0.25	0.43	66	0.02 cfm/ft ²	0.13	7.5	0.36	0.64
	HighGain-5	Maximum Passive Gain and Daylight	0.20	5.0	0.36	0.48	66		0.14	7.2	0.51	0.70
Casement <i>Thin Glass</i>	5M TGT	Low U- High Visible Light	0.21	4.8	0.27	0.45	72	0.02 cfm/ft ²	0.19	5.3	0.38	0.66
	5L TGT	Lowest Solar Heat Gain Coefficient	0.20	5.0	0.18	0.41	72		0.18	5.6	0.25	0.60
	5H TGT	Maximum Passive Gain and Daylight	0.21	4.8	0.41	0.50	71		0.19	5.3	0.60	0.73
Awning <i>Suspended Film</i>	LowGain-5	Low U-factor High Visible Light	0.20	5.0	0.25	0.43	63	<0.01 cfm/ft ²	0.13	7.5	0.36	0.64
	HighGain-5	Maximum Passive Gain and Daylight	0.20	5.0	0.36	0.48	63		0.14	7.2	0.51	0.70
Awning <i>Thin Glass</i>	5M TGT	Low U- High Visible Light	0.21	4.8	0.27	0.45	72	<0.01 cfm/ft ²	0.19	5.3	0.38	0.66
	5L TGT	Lowest Solar Heat Gain Coefficient	0.20	5.0	0.18	0.41	73		0.18	5.6	0.25	0.60
	5H TGT	Maximum Passive Gain and Daylight	0.21	4.8	0.41	0.50	72		0.19	5.3	0.60	0.73



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Zenith Series ZR-5 NFRC Data

ZR-5	Description		NFRC Full-Frame / Total Unit Performance					Air Infiltration @ 1.57psf	Center-of-Glass (COG) Performance*			
	Glass Package	Use	U-factor	R-value	SHGC	VT	CR		U-factor	R-value	SHGC	VT
Single Hung <i>Suspended Film</i>	Balanced-6	Low U-factor High Visible Light	0.19	5.3	0.26	0.42	64	0.05 cfm/ft ²	0.11	9.1	0.34	0.56
	HighGain-6	Maximum Passive Gain and Daylight	0.20	5.0	0.41	0.53	63		0.13	7.9	0.54	0.70
Single Hung <i>Thin Glass</i>	Balanced-6 TGT	Low U-High Visible Light	0.20	5.0	0.28	0.45	64	0.05 cfm/ft ²	0.17	5.9	0.35	0.58
	SolarControl-6 TGT	Lowest Solar Heat Gain Coefficient	0.21	4.8	0.20	0.45	64		0.17	5.9	0.25	0.57
	HighGain-6 TGT	Maximum Passive Gain and Daylight	0.21	4.8	0.45	0.55	63		0.18	5.6	0.57	0.70
Double Hung <i>Suspended Film</i>	Balanced-6	Low U-factor High Visible Light	0.21	4.8	0.25	0.40	59	0.09 cfm/ft ²	0.11	8.8	0.34	0.56
	HighGain-6	Maximum Passive Gain and Daylight	0.22	4.5	0.39	0.50	59		0.13	7.9	0.54	0.70
Double Hung <i>Thin Glass</i>	Balanced-6 TGT	Low U-High Visible Light	0.22	4.5	0.26	0.42	63	0.09 cfm/ft ²	0.17	5.9	0.35	0.58
	SolarControl-6 TGT	Lowest Solar Heat Gain Coefficient	0.22	4.5	0.18	0.41	64		0.17	5.9	0.25	0.57
	HighGain-6 TGT	Maximum Passive Gain and Daylight	0.23	4.3	0.41	0.51	63		0.18	5.6	0.57	0.70
Horizontal Slider <i>Suspended Film</i>	Balanced-6	Low U-factor High Visible Light	0.19	5.3	0.27	0.43	60	0.09 cfm/ft ²	0.11	8.8	0.34	0.56
	HighGain-6	Maximum Passive Gain and Daylight	0.20	5.0	0.42	0.54	59		0.13	7.9	0.54	0.70
Horizontal Slider <i>Thin Glass</i>	Balanced-6 TGT	Low U-High Visible Light	0.21	4.8	0.28	0.45	64	0.09 cfm/ft ²	0.17	5.9	0.35	0.58
	SolarControl-6 TGT	Lowest Solar Heat Gain Coefficient	0.21	4.8	0.20	0.45	65		0.17	5.9	0.25	0.57
	HighGain-6 TGT	Maximum Passive Gain and Daylight	0.21	4.8	0.44	0.55	64		0.18	5.6	0.57	0.70
Sliding Glass Door <i>Suspended Film</i>	LowGain-5	Low U-factor High Visible Light	0.20	5.0	0.28	0.49	56	0.07 cfm/ft ²	0.11	9.1	0.34	0.56
	HighGain-5	Maximum Passive Gain and Daylight	0.20	5.0	0.39	0.53	56		0.12	8.3	0.51	0.70

*Center of glass performance calculated according to NFRC standards



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Zenith Series ZR-6 NFRC Data

ZR-6	Description		NFRC Full-Frame / Total Unit Performance					Air Infiltration @ 1.57psf	Center-of-Glass (COG) Performance*			
	Glass Package	Use	U-factor	R-value	SHGC	VT	CR		U-factor	R-value	SHGC	VT
Fixed Low Profile <i>Suspended Film</i>	Balanced-6	Low U-factor High Visible Light	0.16	6.3	0.30	0.49	62	<0.01 cfm/ft ²	0.12	8.2	0.34	0.56
	SolarControl-6	Lowest Solar Heat Gain Coefficient	0.17	5.9	0.22	0.51	61		0.13	7.6	0.24	0.57
	HighGain-6	Maximum Passive Gain and Daylight	0.18	5.6	0.48	0.62	63		0.13	7.7	0.54	0.70
Fixed Low Profile <i>Thin Glass</i>	Balanced-6 TGT	Low U-factor High Visible Light	0.14	7.1	0.32	0.51	78	<0.01 cfm/ft ²	0.12	8.3	0.35	0.58
	SolarControl-6 TGT	Lowest Solar Heat Gain Coefficient	0.14	7.1	0.22	0.51	78		0.12	8.3	0.25	0.57
	HighGain-6 TGT	Maximum Passive Gain and Daylight	0.15	6.7	0.51	0.63	77		0.13	7.7	0.57	0.70
Fixed High Profile <i>Suspended Film</i>	Balanced-6	Low U-factor High Visible Light	0.16	6.3	0.27	0.44	63	<0.01 cfm/ft ²	0.12	8.2	0.34	0.56
	SolarControl-6	Lowest Solar Heat Gain Coefficient	0.17	5.9	0.20	0.45	63		0.13	7.6	0.24	0.57
	HighGain-6	Maximum Passive Gain and Daylight	0.17	5.9	0.43	0.56	62		0.13	7.7	0.54	0.70
Fixed High Profile <i>Thin Glass</i>	Balanced-6 TGT	Low U-factor High Visible Light	0.14	7.1	0.28	0.46	77	<0.01 cfm/ft ²	0.12	8.3	0.35	0.58
	SolarControl-6 TGT	Lowest Solar Heat Gain Coefficient	0.14	7.1	0.20	0.46	77		0.12	8.3	0.25	0.57
	HighGain-6 TGT	Maximum Passive Gain and Daylight	0.14	7.1	0.46	0.56	76		0.13	7.7	0.57	0.70
Casement <i>Suspended Film</i>	Balanced-6	Low U-factor High Visible Light	0.19	5.3	0.24	0.38	67	0.02 cfm/ft ²	0.12	8.2	0.34	0.56
	SolarControl-6	Lowest Solar Heat Gain Coefficient	0.20	5.0	0.17	0.39	66		0.13	7.6	0.24	0.57
	HighGain-6	Maximum Passive Gain and Daylight	0.20	5.0	0.38	0.48	66		0.13	7.7	0.54	0.70
Casement <i>Thin Glass</i>	Balanced-6 TGT	Low U-factor High Visible Light	0.16	6.3	0.25	0.40	79	0.02 cfm/ft ²	0.12	8.3	0.35	0.58
	SolarControl-6 TGT	Lowest Solar Heat Gain Coefficient	0.16	6.3	0.17	0.39	79		0.12	8.3	0.25	0.57
	HighGain-6 TGT	Maximum Passive Gain and Daylight	0.17	5.9	0.39	0.48	78		0.13	7.7	0.57	0.70



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	Glass Package	Use	U-factor	R-value	SHGC	VT	CR		U-factor	R-value	SHGC	VT
Awning <i>Suspended Film</i>	Balanced-6	Low U-factor High Visible Light	0.19	5.3	0.24	0.38	63	<0.01 cfm/ft ²	0.12	8.2	0.34	0.56
	SolarControl-6	Lowest Solar Heat Gain Coefficient	0.20	5.0	0.17	0.39	63		0.13	7.6	0.24	0.57
	HighGain-6	Maximum Passive Gain and Daylight	0.20	5.0	0.38	0.48	66		0.13	7.7	0.54	0.70
Awning <i>Thin Glass</i>	Balanced-6 TGT	Low U-factor High Visible Light	0.16	6.3	0.25	0.40	78	<0.01 cfm/ft ²	0.12	8.3	0.35	0.58
	SolarControl-6 TGT	Lowest Solar Heat Gain Coefficient	0.16	6.3	0.17	0.39	78		0.12	8.3	0.25	0.57
	HighGain-6 TGT	Maximum Passive Gain and Daylight	0.17	5.9	0.39	0.48	77		0.13	7.7	0.57	0.70
Single Hung <i>Suspended Film</i>	Balanced-6	Low U-factor High Visible Light	0.19	5.3	0.26	0.42	64	0.05 cfm/ft ²	0.11	8.8	0.34	0.56
	SolarControl-6	Lowest Solar Heat Gain Coefficient	0.19	5.3	0.19	0.43	64		0.12	8.2	0.24	0.57
	HighGain-6	Maximum Passive Gain and Daylight	0.20	5.0	0.41	0.53	63		0.13	7.9	0.54	0.70
Single Hung <i>Thin Glass</i>	Balanced-6 TGT	Low U-factor High Visible Light	0.20	5.0	0.28	0.45	64	0.05 cfm/ft ²	0.17	5.9	0.35	0.58
	SolarControl-6 TGT	Lowest Solar Heat Gain Coefficient	0.21	4.8	0.20	0.45	64		0.17	5.9	0.25	0.57
	HighGain-6 TGT	Maximum Passive Gain and Daylight	0.21	4.8	0.45	0.55	63		0.18	5.6	0.57	0.70
Double Hung <i>Suspended Film</i>	Balanced-6	Low U-factor High Visible Light	0.21	4.8	0.25	0.40	59	0.09 cfm/ft ²	0.11	8.8	0.34	0.56
	SolarControl-6	Lowest Solar Heat Gain Coefficient	0.21	4.8	0.18	0.41	60		0.12	8.2	0.24	0.57
	HighGain-6	Maximum Passive Gain and Daylight	0.22	4.5	0.39	0.50	59		0.13	7.9	0.54	0.70
Double Hung <i>Thin Glass</i>	Balanced-6 TGT	Low U-factor High Visible Light	0.22	4.5	0.26	0.42	63	0.09 cfm/ft ²	0.17	5.9	0.35	0.58
	SolarControl-6 TGT	Lowest Solar Heat Gain Coefficient	0.22	4.5	0.18	0.41	64		0.17	5.9	0.25	0.57
	HighGain-6 TGT	Maximum Passive Gain and Daylight	0.23	4.3	0.41	0.51	63		0.18	5.6	0.57	0.70



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ZR-6	Description		NFRC Full-Frame / Total Unit Performance					Air Infiltration @ 1.57psf	Center-of-Glass (COG) Performance*			
	Glass Package	Use	U-factor	R-value	SHGC	VT	CR		U-factor	R-value	SHGC	VT
Horizontal Slider <i>Suspended Film</i>	Balanced-6	Low U-factor High Visible Light	0.19	5.3	0.27	0.43	60	0.09 cfm/ft ²	0.11	9.0	0.34	0.56
	SolarControl-6	Lowest Solar Heat Gain Coefficient	0.19	5.3	0.19	0.44	60		0.12	8.2	0.24	0.57
	HighGain-6	Maximum Passive Gain and Daylight	0.20	5.0	0.42	0.54	59		0.13	7.9	0.54	0.70
Horizontal Slider <i>Thin Glass</i>	Balanced-6 TGT	Low U-factor High Visible Light	0.21	4.8	0.25	0.40	64	0.09 cfm/ft ²	0.12	8.3	0.35	0.58
	SolarControl-6 TGT	Lowest Solar Heat Gain Coefficient	0.21	4.8	0.17	0.39	65		0.12	8.3	0.25	0.57
	HighGain-6 TGT	Maximum Passive Gain and Daylight	0.21	4.8	0.39	0.48	64		0.13	7.7	0.57	0.70
Sliding Glass Door <i>Suspended Film</i>	Balanced-6	Low U-factor High Visible Light	0.19	5.3	0.26	0.43	57	0.07 cfm/ft ²	0.11	9.1	0.34	0.56
	SolarControl-6	Lowest Solar Heat Gain Coefficient	0.20	5.0	0.19	0.44	57		0.12	8.3	0.24	0.57
	HighGain-6	Maximum Passive Gain and Daylight	0.20	5.0	0.39	0.53	56		0.12	8.3	0.51	0.70
Sliding Glass Door <i>Thin Glass</i>	Balanced-6 TGT	Low U-factor High Visible Light	0.19	5.3	0.27	0.44	61	0.07 cfm/ft ²	0.15	6.7	0.35	0.58
	SolarControl-6 TGT	Lowest Solar Heat Gain Coefficient	0.19	5.3	0.19	0.44	67		0.15	6.7	0.25	0.57
	HighGain-6 TGT	Maximum Passive Gain and Daylight	0.19	5.3	0.44	0.54	66		0.16	6.3	0.57	0.70

*Center of glass performance calculated according to NFRC standards





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Zenith Series ZR-7 NFRC Data

ZR-7	Description		NFRC Full-Frame / Total Unit Performance					Air Infiltration @ 1.57psf	Center-of-Glass (COG) Performance*			
	Glass Package	Use	U-factor	R-value	SHGC	VT	CR		U-factor	R-value	SHGC	VT
Fixed Low Profile <i>Suspended Film</i>	Balanced-7	Low U-factor High Visible Light	0.15	6.7	0.30	0.49	63	<0.01 cfm/ft ²	0.11	9.4	0.34	0.56
	SolarControl-7	Lowest Solar Heat Gain Coefficient	0.16	6.3	0.22	0.51	63		0.12	8.6	0.24	0.57
	HighGain-7	Maximum Passive Gain and Daylight	0.16	6.3	0.48	0.62	48		0.12	8.1	0.51	0.70
Fixed Low Profile <i>Thin Glass</i>	Balanced-7 TGT	Low U-factor High Visible Light	0.14	7.1	0.32	0.51	74	<0.01 cfm/ft ²	0.12	8.3	0.35	0.58
	SolarControl-7 TGT	Lowest Solar Heat Gain Coefficient	0.15	6.7	0.22	0.51	74		0.12	8.3	0.25	0.57
	HighGain-7 TGT	Maximum Passive Gain and Daylight	0.15	6.7	0.51	0.63	73		0.13	7.7	0.57	0.70
Fixed High Profile <i>Suspended Film</i>	Balanced-7	Low U-factor High Visible Light	0.14	7.1	0.27	0.44	65	<0.01 cfm/ft ²	0.12	9.4	0.32	0.57
	SolarControl-7	Lowest Solar Heat Gain Coefficient	0.15	6.7	0.19	0.45	65		0.12	8.6	0.24	0.57
	HighGain-7	Maximum Passive Gain and Daylight	0.15	6.7	0.43	0.56	48		0.12	8.1	0.51	0.70
Fixed High Profile <i>Thin Glass</i>	Balanced-7 TGT	Low U-factor High Visible Light	0.14	7.1	0.28	0.46	72	<0.01 cfm/ft ²	0.12	8.3	0.35	0.58
	SolarControl-7 TGT	Lowest Solar Heat Gain Coefficient	0.14	7.1	0.20	0.46	72		0.12	8.3	0.25	0.57
	HighGain-7 TGT	Maximum Passive Gain and Daylight	0.15	6.7	0.46	0.56	71		0.13	7.7	0.57	0.70
Casement <i>Suspended Film</i>	Balanced-7	Low U-factor High Visible Light	0.18	5.6	0.24	0.38	68	0.02 cfm/ft ²	0.11	9.4	0.32	0.57
	SolarControl-7	Lowest Solar Heat Gain Coefficient	0.18	5.6	0.17	0.39	67		0.12	8.6	0.34	0.56
	HighGain-7	Maximum Passive Gain and Daylight	0.19	5.3	0.38	0.48	67		0.12	8.1	0.51	0.70
Casement <i>Thin Glass</i>	Balanced-7 TGT	Low U-factor High Visible Light	0.17	5.9	0.25	0.40	73	0.02 cfm/ft ²	0.12	8.3	0.35	0.58
	SolarControl-7 TGT	Lowest Solar Heat Gain Coefficient	0.17	5.9	0.17	0.39	73		0.12	8.3	0.25	0.57
	HighGain-7 TGT	Maximum Passive Gain and Daylight	0.17	5.9	0.39	0.48	73		0.13	7.7	0.57	0.70



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Zenith Series ZR-7 NFRC Data

ZR-7	Description		NFRC Full-Frame / Total Unit Performance					Air Infiltration @ 1.57psf	Center-of-Glass (COG) Performance*			
	Glass Package	Use	U-factor	R-value	SHGC	VT	CR		U-factor	R-value	SHGC	VT
Awning <i>Suspended Film</i>	Balanced-7	Low U-factor High Visible Light	0.18	5.6	0.24	0.38	61	<0.01 cfm/ft ²	0.11	9.1	0.32	0.57
	SolarControl-7	Lowest Solar Heat Gain Coefficient	0.18	5.6	0.17	0.39	62		0.12	8.6	0.24	0.57
	HighGain-7	Maximum Passive Gain and Daylight	0.19	5.3	0.38	0.48	65		0.12	8.1	0.51	0.70
Awning <i>Thin Glass</i>	Balanced-7 TGT	Low U-factor High Visible Light	0.17	5.9	0.25	0.40	70	<0.01 cfm/ft ²	0.12	8.3	0.35	0.58
	SolarControl-7 TGT	Lowest Solar Heat Gain Coefficient	0.17	5.9	0.17	0.39	71		0.12	8.3	0.25	0.57
	HighGain-7 TGT	Maximum Passive Gain and Daylight	0.17	5.9	0.39	0.48	70		0.13	7.7	0.57	0.70
Single Hung <i>Suspended Film</i>	Balanced-7	Low U-factor High Visible Light	0.18	5.6	0.26	0.42	56	0.05 cfm/ft ²	0.11	8.8	0.34	0.56
	SolarControl-7	Lowest Solar Heat Gain Coefficient	0.19	5.3	0.19	0.43	57		0.12	8.2	0.24	0.57
	HighGain-7	Maximum Passive Gain and Daylight	0.19	5.3	0.41	0.53	55		0.13	7.9	0.54	0.70
Single Hung <i>Thin Glass</i>	Balanced-7 TGT	Low U-factor High Visible Light	0.16	6.3	0.28	0.45	67	0.05 cfm/ft ²	0.12	8.3	0.35	0.58
	SolarControl-7 TGT	Lowest Solar Heat Gain Coefficient	0.16	6.3	0.20	0.45	67		0.12	8.3	0.25	0.57
	HighGain-7 TGT	Maximum Passive Gain and Daylight	0.17	5.9	0.45	0.55	67		0.13	7.7	0.57	0.70
Double Hung <i>Suspended Film</i>	Balanced-7	Low U-factor High Visible Light	0.20	5.0	0.25	0.40	58	0.09 cfm/ft ²	0.11	8.8	0.34	0.56
	SolarControl-7	Lowest Solar Heat Gain Coefficient	0.21	4.8	0.18	0.41	59		0.12	8.2	0.24	0.57
	HighGain-7	Maximum Passive Gain and Daylight	0.21	4.8	0.39	0.50	61		0.13	7.9	0.54	0.70
Double Hung <i>Thin Glass</i>	Balanced-7 TGT	Low U-factor High Visible Light	0.19	5.3	0.26	0.42	67	0.09 cfm/ft ²	0.12	8.3	0.35	0.58
	SolarControl-7 TGT	Lowest Solar Heat Gain Coefficient	0.19	5.3	0.18	0.41	67		0.12	8.3	0.25	0.57
	HighGain-7 TGT	Maximum Passive Gain and Daylight	0.19	5.3	0.41	0.51	66		0.13	7.7	0.57	0.70



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Zenith Series ZR-7 NFRC Data

ZR-7	Description		NFRC Full-Frame / Total Unit Performance					Air Infiltration @ 1.57psf	Center-of-Glass (COG) Performance*			
	Glass Package	Use	U-factor	R-value	SHGC	VT	CR		U-factor	R-value	SHGC	VT
Horizontal Slider <i>Suspended Film</i>	Balanced-7	Low U-factor High Visible Light	0.18	5.6	0.27	0.43	62	0.09 cfm/ft ²	0.11	8.8	0.34	0.56
	SolarControl-7	Lowest Solar Heat Gain Coefficient	0.19	5.3	0.19	0.44	62		0.12	8.2	0.24	0.57
	HighGain-7	Maximum Passive Gain and Daylight	0.19	5.3	0.42	0.54	61		0.13	7.9	0.54	0.70
Horizontal Slider <i>Thin Glass</i>	Balanced-7 TGT	Low U-factor High Visible Light	0.17	5.9	0.28	0.45	68	0.09 cfm/ft ²	0.12	8.3	0.35	0.58
	SolarControl-7 TGT	Lowest Solar Heat Gain Coefficient	0.17	5.9	0.19	0.45	68		0.12	8.3	0.25	0.57
	HighGain-7 TGT	Maximum Passive Gain and Daylight	0.17	5.9	0.44	0.55	68		0.13	7.7	0.57	0.70
Sliding Glass Door <i>Suspended Film</i>	Balanced-7	Low U-factor High Visible Light	0.19	5.3	0.26	0.43	60	0.07 cfm/ft ²	0.11	9.4	0.34	0.56
	SolarControl-7	Lowest Solar Heat Gain Coefficient	0.19	5.3	0.19	0.44	59		0.12	8.6	0.24	0.57
	HighGain-7	Maximum Passive Gain and Daylight	0.20	5.0	0.42	0.54	59		0.12	8.1	0.51	0.70
Sliding Glass Door <i>Thin Glass</i>	Balanced-7 TGT	Low U-factor High Visible Light	0.16	6.3	0.27	0.44	69	0.07 cfm/ft ²	0.11	9.1	0.35	0.58
	SolarControl-7 TGT	Lowest Solar Heat Gain Coefficient	0.16	6.3	0.19	0.44	69		0.11	9.1	0.24	0.57
	HighGain-7 TGT	Maximum Passive Gain and Daylight	0.16	6.3	0.44	0.54	69		0.12	8.3	0.57	0.70

*Center of glass performance calculated according to NFRC standards





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Zenith Series ZR-9 NFRC Data

ZR-9	Description		NFRC Full-Frame / Total Unit Performance					Air Infiltration @ 1.57psf	Center-of-Glass (COG) Performance*			
	Glass Package	Use	U-factor	R-value	SHGC	VT	CR		U-factor	R-value	SHGC	VT
Fixed Low Profile <i>Suspended Film</i>	Balanced-9	Low U-factor High Visible Light	0.11	9.1	0.27	0.44	60	<0.01 cfm/ft ²	0.07	13.5	0.31	0.50
	SolarControl-9	Lowest Solar Heat Gain Coefficient	0.12	8.3	0.20	0.45	61		0.08	12.7	0.21	0.51
	HighGain-9	Maximum Passive Gain and Daylight	0.12	8.3	0.41	0.55	62		0.08	12.3	0.46	0.63
Fixed Low Profile <i>Thin Glass</i>	Balanced-9 TGQ	Low U-factor High Visible Light	0.12	8.3	0.30	0.48	76	<0.01 cfm/ft ²	0.09	11.1	0.33	0.53
	SolarControl-9 TGQ	Lowest Solar Heat Gain Coefficient	0.12	8.3	0.20	0.47	77		0.10	10.0	0.23	0.53
	HighGain-9 TGQ	Maximum Passive Gain and Daylight	0.12	8.3	0.47	0.58	80		0.10	10.0	0.53	0.65
Fixed High Profile <i>Suspended Film</i>	Balanced-9	Low U-factor High Visible Light	0.11	9.1	0.25	0.39	63	<0.01 cfm/ft ²	0.07	13.5	0.31	0.50
	SolarControl-9	Lowest Solar Heat Gain Coefficient	0.12	8.3	0.18	0.40	64		0.08	12.7	0.22	0.51
	HighGain-9	Maximum Passive Gain and Daylight	0.12	8.3	0.37	0.49	65		0.08	12.3	0.46	0.63
Fixed High Profile <i>Thin Glass</i>	Balanced-9 TGQ	Low U-factor High Visible Light	0.12	8.3	0.27	0.43	75	<0.01 cfm/ft ²	0.09	11.1	0.33	0.53
	SolarControl-9 TGQ	Lowest Solar Heat Gain Coefficient	0.12	8.3	0.18	0.42	78		0.10	10.0	0.23	0.53
	HighGain-9 TGQ	Maximum Passive Gain and Daylight	0.12	8.3	0.42	0.52	79		0.10	10.0	0.53	0.65
Casement <i>Suspended Film</i>	Balanced-9	Low U-factor High Visible Light	0.15	6.7	0.22	0.33	74	0.02 cfm/ft ²	0.07	13.5	0.31	0.50
	SolarControl-9	Lowest Solar Heat Gain Coefficient	0.15	6.7	0.16	0.35	74		0.08	12.7	0.22	0.51
	HighGain-9	Maximum Passive Gain and Daylight	0.16	6.3	0.32	0.42	73		0.08	12.3	0.46	0.63
Casement <i>Thin Glass</i>	Balanced-9 TGQ	Low U-factor High Visible Light	0.15	6.7	0.23	0.37	79	0.02 cfm/ft ²	0.09	11.1	0.33	0.53
	SolarControl-9 TGQ	Lowest Solar Heat Gain Coefficient	0.15	6.7	0.16	0.36	79		0.10	10.0	0.23	0.53
	HighGain-9 TGQ	Maximum Passive Gain and Daylight	0.15	6.7	0.37	0.45	81		0.10	10.0	0.53	0.65



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Zenith Series ZR-9 NFRC Data

ZR-9	Description		NFRC Full-Frame / Total Unit Performance					Air Infiltration @ 1.57psf	Center-of-Glass (COG) Performance*			
	Glass Package	Use	U-factor	R-value	SHGC	VT	CR		U-factor	R-value	SHGC	VT
Awning <i>Suspended Film</i>	Balanced-9	Low U-factor High Visible Light	0.15	6.7	0.22	0.34	69	<0.01 cfm/ft ²	0.07	13.5	0.31	0.50
	SolarControl-9	Lowest Solar Heat Gain Coefficient	0.15	6.7	0.16	0.35	70		0.08	12.7	0.22	0.51
	HighGain-9	Maximum Passive Gain and Daylight	0.16	6.3	0.32	0.42	73		0.08	12.3	0.46	0.63
Awning <i>Thin Glass</i>	Balanced-9 TGQ	Low U-factor High Visible Light	0.14	7.1	0.23	0.37	74	<0.01 cfm/ft ²	0.09	11.1	0.33	0.53
	SolarControl-9 TGQ	Lowest Solar Heat Gain Coefficient	0.15	6.7	0.16	0.36	75		0.10	10.0	0.23	0.53
	HighGain-9 TGQ	Maximum Passive Gain and Daylight	0.15	6.7	0.37	0.45	81		0.10	10.0	0.53	0.65
Sliding Glass Door <i>Suspended Film</i>	Balanced-9	Low U-factor High Visible Light	0.16	6.3	0.24	0.38	66	0.07 cfm/ft ²	0.07	13.5	0.31	0.50
	SolarControl-9	Lowest Solar Heat Gain Coefficient	0.16	6.3	0.17	0.39	66		0.08	12.7	0.22	0.51
	HighGain-9	Maximum Passive Gain and Daylight	0.16	6.3	0.35	0.48	66		0.08	12.3	0.44	0.63
Sliding Glass Door <i>Thin Glass</i>	Balanced-9 TGQ	Low U-factor High Visible Light	0.14	7.1	0.25	0.41	69	0.07 cfm/ft ²	0.09	11.1	0.33	0.53
	SolarControl-9 TGQ	Lowest Solar Heat Gain Coefficient	0.14	7.1	0.18	0.41	74		0.10	10.0	0.23	0.53
	HighGain-9 TGQ	Maximum Passive Gain and Daylight	0.15	6.7	0.41	0.50	74		0.10	10.0	0.53	0.65

*Center of glass performance calculated according to NFRC standards





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Zenith Series ZR-10 NFRC Data

ZR-10	Description		NFRC Full-Frame / Total Unit Performance					Air Infiltration @ 1.57psf	Center-of-Glass (COG) Performance*			
	Glass Package	Use	U-factor	R-value	SHGC	VT	CR		U-factor	R-value	SHGC	VT
Fixed High Profile <i>Suspended Film</i>	SolarControl ZR-10	Superior solar control Best-in-class U-value	0.10	10.0	0.15	0.30	62	<0.01 cfm/sqft	0.06	16.7	0.18	0.38
Fixed Low Profile <i>Suspended Film</i>	SolarControl ZR-10	Superior solar control Best-in-class U-value	0.11	9.1	0.19	0.44	59	<0.01 cfm/sqft	0.06	16.7	0.18	0.38
Casement <i>Suspended Film</i>	SolarControl ZR-10	Superior solar control Best-in-class U-value	0.14	7.1	0.13	0.26	64	0.02 cfm/sqft	0.06	16.7	0.18	0.38
Awning <i>Suspended Film</i>	SolarControl ZR-10	Superior solar control Best-in-class U-value	0.14	7.1	0.13	0.26	66	<0.01 cfm/sqft	0.06	16.7	0.18	0.38
Sliding Patio Door <i>Suspended Film</i>	SolarControl ZR-10	Superior solar control Best-in-class U-value	0.14	7.1	0.14	0.29	59	0.07 cfm/sqft	0.06	16.7	0.18	0.38

