



Tyrol Series NFRC Data



Fiberglass Reinforced uPVC windows

TR-6 (Standard Foam)	Description			NFRC Full-Frame / Total Unit Performance				Air Infiltration @ 1.57 psf	Center-of-Glass (COG) Performance*			
	Glass Package	Use	Makeup	U-factor	R-value	SHGC	VT		U-factor	R-value	SHGC	VT
Fixed	Balanced-6	Low U-factor High Visible Light	Triple Pane with Suspended Film, Argon Gas Fill	0.15	6.7	0.27	0.44	<0.01 cfm/ft ²	0.12	8.3	0.34	0.56
	SolarControl-6	Lowest Solar Heat Gain Coefficient	Triple Pane with Suspended Film, Argon Gas Fill	0.16	6.3	0.19	0.45		0.13	7.7	0.24	0.57
	HighGain-6	Maximum Passive Gain and Daylight	Triple Pane with Suspended Film, Argon Gas Fill	0.17	5.9	0.41	0.55		0.14	7.1	0.51	0.70
Tilt-Turn/Hopper	Balanced-6	Low U-factor High Visible Light	Triple Pane with Suspended Film, Argon Gas Fill	0.17	5.9	0.24	0.38	<0.03 cfm/ft ²	0.12	8.3	0.34	0.56
	SolarControl-6	Lowest Solar Heat Gain Coefficient	Triple Pane with Suspended Film, Argon Gas Fill	0.17	5.9	0.17	0.39		0.13	7.7	0.24	0.57
	HighGain-6	Maximum Passive Gain and Daylight	Triple Pane with Suspended Film, Argon Gas Fill	0.18	5.6	0.35	0.48		0.14	7.1	0.51	0.70

*Center of glass performance calculated according to NFRC standards



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TR-7 (Standard Foam)	Description			NFRC Full-Frame / Total Unit Performance				Air Infiltration @ 1.57 psf	Center-of-Glass (COG) Performance*			
	Glass Package	Use	Makeup	U-factor	R-value	SHGC	VT		U-factor	R-value	SHGC	VT
Fixed	Balanced-7	Low U-factor High Visible Light	Triple Pane with Suspended Film, Krypton Gas Fill	0.14	7.1	0.27	0.44	<0.01 cfm/ft ²	0.11	9.1	0.34	0.56
	SolarControl-7	Lowest Solar Heat Gain Coefficient	Triple Pane with Suspended Film, Krypton Gas Fill	0.15	6.7	0.19	0.45		0.12	8.3	0.24	0.57
	HighGain-7	Maximum Passive Gain and Daylight	Triple Pane with Suspended Film, Krypton Gas Fill	0.15	6.7	0.41	0.55		0.12	8.3	0.51	0.70
Tilt-Turn/Hopper	Balanced-7	Low U-factor High Visible Light	Triple Pane with Suspended Film, Krypton Gas Fill	0.15	6.7	0.24	0.38	<0.03 cfm/ft ²	0.11	9.1	0.34	0.56
	SolarControl-7	Lowest Solar Heat Gain Coefficient	Triple Pane with Suspended Film, Krypton Gas Fill	0.16	6.3	0.17	0.39		0.12	8.3	0.24	0.57
	HighGain-7	Maximum Passive Gain and Daylight	Triple Pane with Suspended Film, Krypton Gas Fill	0.16	6.3	0.35	0.48		0.12	8.3	0.51	0.70

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Fiberglass Reinforced uPVC windows

TR-9 (Standard Foam)	Description			NFRC Full-Frame / Total Unit Performance				Air Infiltration @ 1.57 psf	Center-of-Glass (COG) Performance*			
	Glass Package	Use	Makeup	U-factor	R-value	SHGC	VT		U-factor	R-value	SHGC	VT
Fixed	Balanced-9	Lowest U-factor All Climate Best Insulation	Quad Pane with Suspended Film, Krypton Gas Fill	0.11	9.1	0.24	0.38	<0.01 cfm/ft ²	0.07	14.3	0.30	0.49
	SolarControl-9	Lowest Solar Heat Gain Coefficient	Quad Pane with Suspended Film, Krypton Gas Fill	0.11	9.1	0.18	0.40		0.08	12.5	0.22	0.50
	HighGain-9	Low U-factor, High Gain/ Passive Solar Homes	Quad Pane with Suspended Film, Krypton Gas Fill	0.12	8.3	0.35	0.49		0.10	10.0	0.45	0.62
Tilt-Turn/Hopper	Balanced-9	Low U-factor All Climate Best Insulation	Quad Pane with Suspended Film, Krypton Gas Fill	0.13	7.7	0.21	0.33	<0.03 cfm/ft ²	0.07	14.3	0.30	0.49
	SolarControl-9	Lowest Solar Heat Gain Coefficient	Quad Pane with Suspended Film, Krypton Gas Fill	0.13	7.7	0.15	0.34		0.08	12.5	0.22	0.50
	HighGain-9	Low U-factor, High Gain/ Passive Solar Homes	Quad Pane with Suspended Film, Krypton Gas Fill	0.13	7.7	0.30	0.42		0.10	10.0	0.45	0.62

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Fiberglass Reinforced uPVC windows



**Fiberglass Reinforced uPVC windows
Designed for Passive House**

TR-6 PH+ (PH+ Foam)	Description			NFRC Full-Frame / Total Unit Performance				Air Infiltration @ 1.57 psf	Center-of-Glass (COG) Performance*			
	Glass Package	Use	Makeup	U-factor	R-value	SHGC	VT		U-factor	R-value	SHGC	VT
Fixed	Balanced-6 PH+	Passive House Optimized Low U-factor High Visible Light	Triple Pane with Suspended Film, Argon Gas Fill	0.16	6.3	0.27	0.44	<0.01 cfm/ft ²	0.16	6.3	0.34	0.55
	HighGain-6 PH+	Passive House Optimized High Solar Heat Gain Coefficient	Triple Pane with Suspended Film, Argon Gas Fill	0.17	5.9	0.44	0.55		0.14	7.1	0.53	0.70
	HighGain-6 Pro PH+	Passive House Optimized Low U-factor High Solar Heat Gain Coefficient	Triple Pane with Suspended Film, Argon Gas Fill	0.16	6.3	0.40	0.53		0.13	7.7	0.50	0.67
Tilt-Turn/Hopper	Balanced-6 PH+	Passive House Optimized Low U-factor High Visible Light	Triple Pane with Suspended Film, Argon Gas Fill	0.17	5.9	0.24	0.38	<0.03 cfm/ft ²	0.16	6.3	0.34	0.55
	HighGain-6 PH+	Passive House Optimized High Solar Heat Gain Coefficient	Triple Pane with Suspended Film, Argon Gas Fill	0.17	5.9	0.35	0.48		0.14	7.1	0.53	0.70
	HighGain-6 Pro PH+	Passive House Optimized Low U-factor High Solar Heat Gain Coefficient	Triple Pane with Suspended Film, Argon Gas Fill	0.17	5.9	0.35	0.46		0.13	7.7	0.50	0.67

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TR-7 PH+ (PH+ Foam)	Description			NFRC Full-Frame / Total Unit Performance				Air Infiltration @ 1.57 psf	Center-of-Glass (COG) Performance*			
	Glass Package	Use	Makeup	U-factor	R-value	SHGC	VT		U-factor	R-value	SHGC	VT
Fixed	Balanced-7 PH+	Passive House Optimized Low U-factor High Visible Light	Triple Pane with Suspended Film, Krypton Gas Fill	0.14	7.1	0.27	0.44	<0.01 cfm/ft ²	0.11	9.1	0.34	0.56
	HighGain-7 PH+	Passive House Optimized High Solar Heat Gain Coefficient	Triple Pane with Suspended Film, Krypton Gas Fill	0.15	6.7	0.41	0.55		0.12	8.3	0.51	0.70
Tilt-Turn/Hopper	Balanced-7 PH+	Passive House Optimized Low U-factor High Visible Light	Triple Pane with Suspended Film, Krypton Gas Fill	0.15	6.7	0.24	0.38	<0.03 cfm/ft ²	0.11	9.1	0.34	0.56
	HighGain-7 PH+	Passive House Optimized High Solar Heat Gain Coefficient	Triple Pane with Suspended Film, Krypton Gas Fill	0.16	6.3	0.35	0.48		0.12	8.3	0.51	0.70

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	Glass Package	Use	Makeup	U-factor	R-value	SHGC	VT		U-factor	R-value	SHGC	VT
Fixed	Balanced-9 PH+	Passive House Optimized Low U-factor High Visible Light	Quad Pane with Suspended Film, Krypton Gas Fill	0.11	9.1	0.35	0.38	<0.01 cfm/ft ²	0.07	14.3	0.31	0.49
	HighGain-9 PH+	Passive House Optimized High Solar Heat Gain Coefficient	Quad Pane with Suspended Film, Krypton Gas Fill	0.11	9.1	0.35	0.49		0.08	12.5	0.50	0.62
Tilt-Turn/Hopper	Balanced-9 PH+	Passive House Optimized Low U-factor High Visible Light	Quad Pane with Suspended Film, Krypton Gas Fill	0.12	8.3	0.21	0.33	<0.03 cfm/ft ²	0.07	14.3	0.31	0.49
	HighGain-9 PH+	Passive House Optimized High Solar Heat Gain Coefficient	Quad Pane with Suspended Film, Krypton Gas Fill	0.12	8.3	0.30	0.42		0.08	12.5	0.50	0.62

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