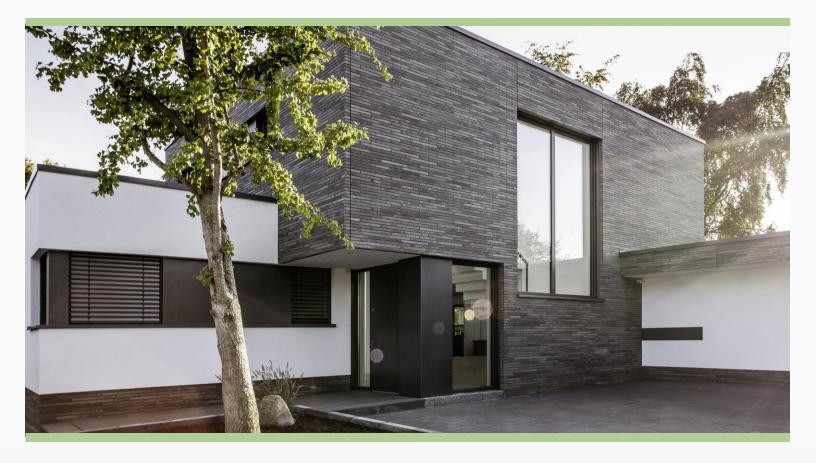


Tyrol Series TR-9



Tyrol Series TR-9 Windows and Doors

TR-9 windows and doors combine best-in-class European styling and quality German hardware with the outstanding performance, craftsmanship and short lead times you've come to expect from Alpen High Performance Products.

The Tyrol Series is a fiberglass reinforced polymer system composed of a proprietary fiber composite material, RAU-FIPRO™, and is similar to composites employed in aeronautic construction and racing vehicles for outstanding strength and load capacities. Combined with Alpen's multiple glazing options, this unique uPVC frame design substantially improves thermal performance and provides multiple chamber insulation options.

Benefits:

- NFRC whole-window ratings up to R-9.0 (U-0.11)
- Center-of-glass performances from R-10.0 (U-0.08) to R-14.3 (U-0.07)
- AAMA certified for residential, commercial and multifamily applications
- Based on the award winning Rehau 4700 Geneo profile
- Fiberglass-reinforced profile allows for larger sizes without steel reinforcement





Tyrol Series TR-9



TECHNICAL SPECIFICATIONS



Tyrol Series TR-9 Full Frame NFRC Thermal Performance:

TR-9	Balanced				SolarControl				HighGain			
	U-factor	R-value	SHGC	VT	U-factor	R-value	SHGC	VT	U-factor	R-value	SHGC	VT
Fixed Suspended Film	0.11	9.0	0.24	0.39	0.12	8.6	0.17	0.40	0.12	8.4	0.35	0.49
Thin Glass	0.12	8.5	0.26	0.42	0.12	8.5	0.18	0.42	0.12	8.2	0.42	0.52
Tilt Turn/Hopper Suspended Film	0.13	7.9	0.21	0.33	0.13	7.7	0.15	0.34	0.13	7.6	0.30	0.42
Thin Glass	0.13	7.8	0.23	0.36	0.13	7.8	0.16	0.36	0.13	7.6	0.36	0.44

DESIGNING WITH ALPENGLASS AND THINGLASS:

DESIGNATIO MITTALE E	The contract of the contract o				
Balanced	Optimal blend of low U-factor and moderate solar control, a well-rounded solution for high performance homes in all climates				
SolarControl	Extra protection against unwanted solar gain to keep spaces cool in summer and swing seasons, ideal for West- and South-facing windows in most climates				
HighGain	Maximum light and solar heat gain, ideal for passive solar homes and North-facing and well-shaded windows in spaces where more daylight is desired				

WINDOW AND DOOR TYPES



Fixed Window

(up to 119" x 41"

or 41" x 119")



Hopper

Window

(up to 59" x 51")



Tilt Turn/

Hopper

Window

(up to 54" x 78")



Combination

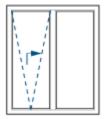
Units

(up to 157" x 78")

Side-Hinged Doors (up to 46" x 101" or 46" x 100")



French Doors



2-Panel Tilt Glide Doors

(up to 119" x 101")

FINISH OPTIONS

Standard Color

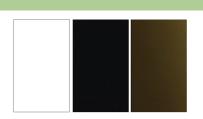
White

Upgrade Color Options

Black or Bronze

Custom Finishes

Please call to inquire about the availability of custom laminated foil and painted finishes.





German-engineered Roto® NT window handles are available in the following standard finishes: White, Black, Dark Bronze and Nickel Silver

Please call to inquire about the availability of custom handle finishes.







Acoustic Insulation ASTM E90 Acoustical Up to 45 dB

