



Tyrol Edge

High Design Meets High Performance



Tyrol Edge delivers what today's architects and builders have been waiting for: an ultra-slim, modern profile paired with Passive House-level energy performance. This 30-50% lighter system combines Alpen's advanced multi-pane IGUs with embedded structural fiberglass uPVC frames, enabling expansive sizes up to 78" x 118" and design pressures up to 70 psf without visual bulk or thermal compromise. Fabricated in Colorado on our advanced, automated precision line, Tyrol Edge offers design freedom, energy code compliance, and seamless installation - on time, on budget, and built to last.

- **Whole-window R-values up to R-11** (U-0.09) to meet or exceed Passive House and stretch code requirements.
- **Air infiltration as low as 0.01 CFM/sq. ft.** and high condensation resistance, well above industry standards.
- **Multi-chamber insulated frame** and long strand embedded fiberglass minimize thermal bridging and enhances strength, eliminating the need for steel reinforcement.
- **Triple-sealed for maximum thermal comfort** and sound control, achieving up to STC 45 / OITC 37 in acoustic configurations to reduce harsh exterior noise to a soft, ambient level.
- **European-style tilt-turn operation:** One handle, two functions; tilts in for ventilation, swings in for full access.
- **Domestic manufacturing and support:** Faster lead times, local code compliance, and responsive design and service teams.



**Up to
R-10**

Sleek. Modern. Versatile.

1. Slimmest frame offset (7mm) for maximum glass visibility
2. Triple and quad-pane high performance AlpenGlass
3. Continuous, embedded structural fiberglass strands
4. Seamless, fusion welded corners
5. Insulating, thermoplastic core provides dimensional stability
6. Sleek, straight lines for aluminum-like look
7. Triple-sealed gasket maximizes insulation and sound control

Design Pressure ± 40.10 psf - ± 70.18 psf	NFRC U-Factor U 0.20 to U 0.10 (R-5 to R-10)
Acoustics Up to STC 45 / OITC 37	Passive House Performance U_i 0.18
Certifications NFRC, PHIUS	Air Infiltration 0.01 cfm/ft2 to 0.05 cfm/ft2

Frame Colors

Certified for North America.
Guaranteed for 20 years.



Handles



Tyrol Edge's operable windows feature new top-of-the-line concealed hinges for a clean, modern look and increased durability.

- Improves safety with fewer exposed moving parts
- Reduces maintenance needs over time
- Provides smoother, quieter operation
- Enhances energy efficiency by improving seal integrity

Other Windows
Exposed Hinge



Edge
Concealed Hinge



Full Frame NFRC Performance Data

NFRC Performance with Triple Pane			
Style	Glass Package	U-Factor	R-Value
Fixed	SolarControl-6 TGT	0.15	6.7
Fixed	Balanced-6 TGT	0.15	6.7
Fixed	HighGain-6 TGT	0.15	6.7
Tilt-Turn	SolarControl-6 TGT	0.16	6.3
Tilt-Turn	Balanced-6 TGT	0.16	6.3
Tilt-Turn	HighGain-6 TGT	0.16	6.3

NFRC Performance with Quad Pane			
Style	Glass Package	U-Factor	R-Value
Fixed	SolarControl-11 TGT	0.10	10
Tilt-Turn	SolarControl-11 TGT	0.11	9.1