



Tyrol Edge & Contour

uPVC Reimagined: High Design Meets High Performance



Tyrol Edge and Contour deliver what today's architects and builders have been waiting for: ultra-slim, modern profiles paired with Passive House-level energy performance. This 30-50% lighter system combines Alpen's advanced multi-pane IGUs with structural fiberglass-coextruded uPVC frames, enabling expansive sizes up to 78.75" x 118" and design pressures up to 70 psf—without bulk or thermal compromise. Fabricated in Colorado on our next-gen precision line, Tyrol offers design freedom, energy 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 design** and **continuous fiberglass reinforcement** 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.



Tyrol Edge

Sleek. Modern. High-Performance.

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 core: 100% post-industrial recycled content
6. Sleek, straight lines for aluminum-like look



Design Pressure
± 40.10 psf - ± 70.18 psf



NFRC U-Factor
U 0.20 to U 0.10 (R-5 to R-10)



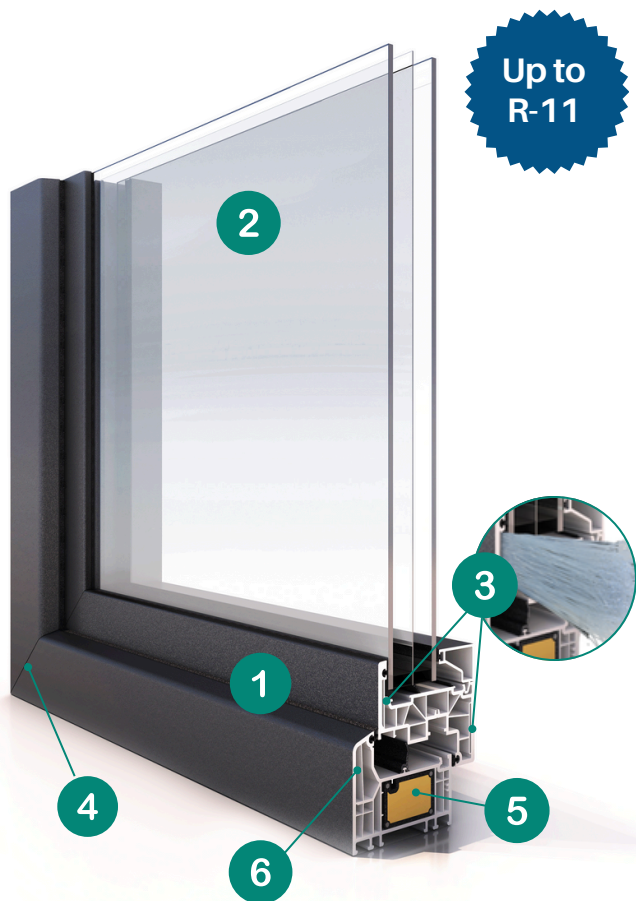
Acoustics
Up to STC 45 / OITC 37



SHGC Range
0.15 to 0.49



Certifications
NFRC, PHIUS



Tyrol Contour

Classic Lines. Timeless Design.

1. Traditional uPVC style with pronounced frame offset (18mm)
2. Triple and quad-pane high performance AlpenGlass
3. Continuous, embedded structural fiberglass strands
4. Seamless, fusion welded corners
5. Insulating core: 100% post-industrial recycled content
6. Added chamber allows for increased insulation and higher Uf



Design Pressure
± 40.10 psf - ± 70.18 psf



NFRC U-Factor
U 0.20 to U 0.09 (R-5 to R-11)



Acoustics
Up to STC 45 / OITC 37



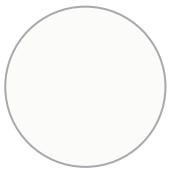
SHGC Range
0.15 to 0.49



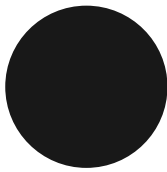
Certifications
NFRC, PHIUS, PHI

Frame Colors

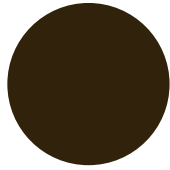
RENOLIT EXOFOL Foil



White



Black



Bronze NA



Anthracite Grey
Exterior Only

Handles



White



Bronze



Black



Nickel



Our Edge and Contour operable windows feature new top-of-the-line concealed hinges, offering 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 & Contour
Concealed Hinge



Edge & Contour Full Frame NFRC Performance Data

AlpenGlass: ThinGlass Triple (TGT) / ThinGlass Quad (TGO)

R-6 EDGE 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
R-6 CONTOUR with Triple Pane			
Style	Glass Package	U-Factor	R-Value
Fixed	SolarControl-6 TGT	0.15	6.7
Fixed	Balanced-6 TGT	0.14	7.1
Fixed	HighGain-6 TGT	0.15	6.7
Tilt-Turn	SolarControl-6 TGT	0.15	6.7
Tilt-Turn	Balanced-6 TGT	0.15	6.7
Tilt-Turn	HighGain-6 TGT	0.16	6.3

R-11 EDGE 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
R-11 CONTOUR with Quad Pane			
Style	Glass Package	U-Factor	R-Value
Fixed	SolarControl-11 TGT	0.09	11.1
Tilt-Turn	SolarControl-11 TGT	0.11	9.1

*Thermal performance results calculated according to NFRC. NFRC Certification is underway. Full performance chart available at www.thinkalpen.com

Edge & Contour Min/Max Sizes

Measurements in inches

Style	Min Width	Min Height	Max Width	Max Height	Max Sqft
Fixed <i>with Insulated Composite Core</i>	20	20	78 ^{3/4}	118	50
Tilt-Turn	22 ^{1/2}	22 ^{1/2}	54	96	24
Inswing Casement <i>Modified Tilt-Turn</i>	22 ^{1/2}	22 ^{1/2}	54	96	24
Hopper <i>with K Hinge</i>	20 ^{1/2}	17 ^{1/2}	78	50	24

Window cannot have both max height and max width - refer to max sqft

Notes

1. Tilt-turn style windows cannot be wider than they are tall. 2:3 width to height ratio recommended.

2. For all window series, maximum aspect ratio allowed is 1:6 (glass width vs. glass height).

3. One dimension must always be 72" or less in any IGU panel (72" glass + frame = 78^{3/4"})

4. Please contact an Alpen representative for dimensions <20".

5. Common frame mullid assembly cannot exceed 118" and 80 sq.ft. For larger assemblies, field mull kit is required. Please contact an Alpen representative.

6. Thermal performance may vary with larger sizes.

Egress

Minimum sizes for all operable windows

Width	Height	Overall
27 ^{5/8"}	31 ^{5/8"}	27 ^{5/8"} x 46 ^{1/4"}