



# 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 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 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.





## Tyrol Edge


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


 Performance Grade  
CW50-CW100

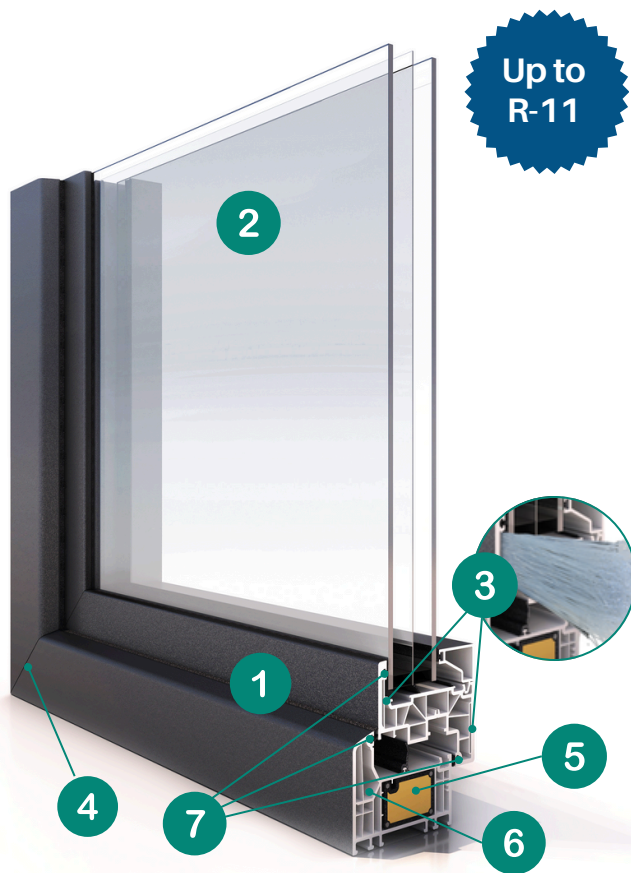
 NFRC U-Factor  
U 0.20 to U 0.10 (R-5 to R-10)

 Acoustics  
Up to STC 45 / OITC 37

 Passive House Performance  
 $U_f$  0.18

 Certifications  
NFRC, PHIUS


 Air Infiltration  
0.01 cfm/ft<sup>2</sup> to 0.05 cfm/ft<sup>2</sup>





## 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, thermoplastic core provides dimensional stability
6. Added chamber increases insulation and lowers frame U-Factor
7. Triple-sealed gasket maximizes insulation and sound control


 Performance Grade  
CW50-CW100

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

 Acoustics  
Up to STC 45 / OITC 37

 Passive House Performance  
 $U_f$  0.14

 Certifications  
NFRC, PHIUS, PHI

 Air Infiltration  
0.01 cfm/ft<sup>2</sup> to 0.05 cfm/ft<sup>2</sup>

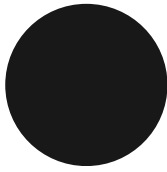


## Frame Colors

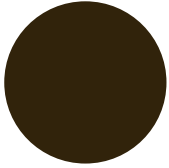
Certified for North America. Guaranteed for 20 years.



White



Night 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)

TR-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
TR-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

TR-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
TR-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](http://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	118	50
Tilt-Turn	22 <sup>1/2</sup>	22 <sup>1/2</sup>	54	96	24
Inswing Casement <i>Modified Tilt-Turn</i>	22 <sup>1/2</sup>	22 <sup>1/2</sup>	54	96	25.5
Hopper	20 <sup>1/2</sup>	20	59	50	20

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. For dimensions <20", mitered corners will have a manual welded seam.
4. Common frame mullid assembly cannot exceed 118" and 80 sqft. For larger assemblies, field mull kit is required. Please contact an Alpen representative.
5. Thermal performance may vary with larger sizes.
6. Sizes greater than 78" x 98" will have breather tubes and balloons.
7. Allow proper expansion clearances between uPVC frames and all surrounding materials (framing, sheathing, cladding). See installation guide for details based on size, color, and exposure.

### Egress

Minimum sizes for all operable windows

Width	Height	Overall
27 <sup>5/8"</sup>	31 <sup>5/8"</sup>	27 <sup>5/8"</sup> x 46 <sup>1/4"</sup>

Full sizing chart available at [www.thinkalpen.com](http://www.thinkalpen.com)