

## Tyrol Series PH+ Passive House ThinGlass



### **Tyrol Series PH+ Windows and Doors**

Alpen is committed to leading the industry through innovation, supporting a wide range of high performance building communities and providing **validated** proof that our product performance matches our claims. As the **first North American manufacturer to achieve dual PHIUS and PHI certifications**, we understand the challenges of designing and building a passive house certified project, and appreciate the extra lengths owners and consultants go through to be responsible stewards of our planet by promoting passive house principles.

### **Benefits of Tyrol Series PH+ with ThinGlass**

- Thick-wall extrusions and compression seals deliver best-in-class sound attenuation STC/OITC ratings
- Custom crafted in the U.S., with short lead times and local servicing
- Highly knowledgeable and consultative support
- AAMA rated for residential, commercial and multifamily applications
- Award-winning, fiberglass-reinforced, European style, REHAU™ 4700 Geneo™ profile
- U-values are as good as or better than equivalent suspended coated film
- Increased visible light transmission and condensation resistance







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Passive House Institute — PHPP & WUFI Performance Data

# Achieve window U-values as low as 0.107 with thin glass and fiberglass-reinforced uPVC frames!

#### **Glazing Data**

Glazing Type	Overall Thickness [in]	<b>Ug</b> [BTU/hr·ft²·°F]	SHGC	Visible Transmittance	Uw (Tilt-Turn) [BTU/hr·ft².°F]
Balanced-6 PH+ TGT	1-%"	0.095	0.386	0.580	0.119
SolarControl-6 PH+ TGT	1-%"	0.099	0.281	0.576	0.120
HighGain-6 PH+ TGT	1-%"	0.108	0.578	0.705	0.126
Balanced-9 PH+ TGQ	1-%"	0.081	0.361	0.536	0.108
Solarcontrol-9 PH+ TGQ	1-%"	0.080	0.262	0.534	0.107
HighGain-9 PH+ TGQ	1-%"	0.089	0.540	0.656	0.113

Featuring warm edge foam spacers: glass edge **0.01 BTU/hr·ft** 



#### **Frame Data**

Frame Type	Frame Dimension [in]	<b>Uf</b> [BTU/hr·ft²-°F]
PH+ Tilt Turn	4.53"	0.13
PH+ Fixed	2.83"	0.12
PH+ Swing Door	5.56"	0.14
PH+ Low Profile	4.50"	0.19

These charts are a small representative sample of Tyrol Series PH+ products available for passive house. For additional options to fit your project's needs and optimize your energy model, please visit the Alpen website at: www.thinkalpen.com/passive-house









