



uPVC Windows & Doors

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SUNSET

Our uPVC windows offer exceptional thermal performance, superior craftsmanship and long-term durability for your passive house build or retrofit. We offer a range of different materials and designs to ensure the windows you get, are just as unique as your project.

What are Passive House Windows?

There is no such thing as a special “passive house” window. The Passive House standard is performance based, not a checklist of specific components to buy. In general, they are characterized by being thermally broken, airtight, and usually triple glazed with the gaps between glass panes filled with argon or krypton gas.

The overall window will give a low U-value, (high R-value) typically maximize solar gain, and minimize heat loss. Indeed, the passive idea is getting the most energy for the least effort or cost, and then maintaining it with an excellent insulation.

Thus, any window which has a U_w -value of 0.14 BTU/hr.ft².°F or less is suitable for a passive house (0.8 W/(m²K)). To have a certified passive house, the building’s overall energy use and air leakage are other contributing factors.

Depending on your local climate, budget and component availability, it is also possible to install windows with somewhat higher values and make up for the inefficiency elsewhere in the home if necessary.

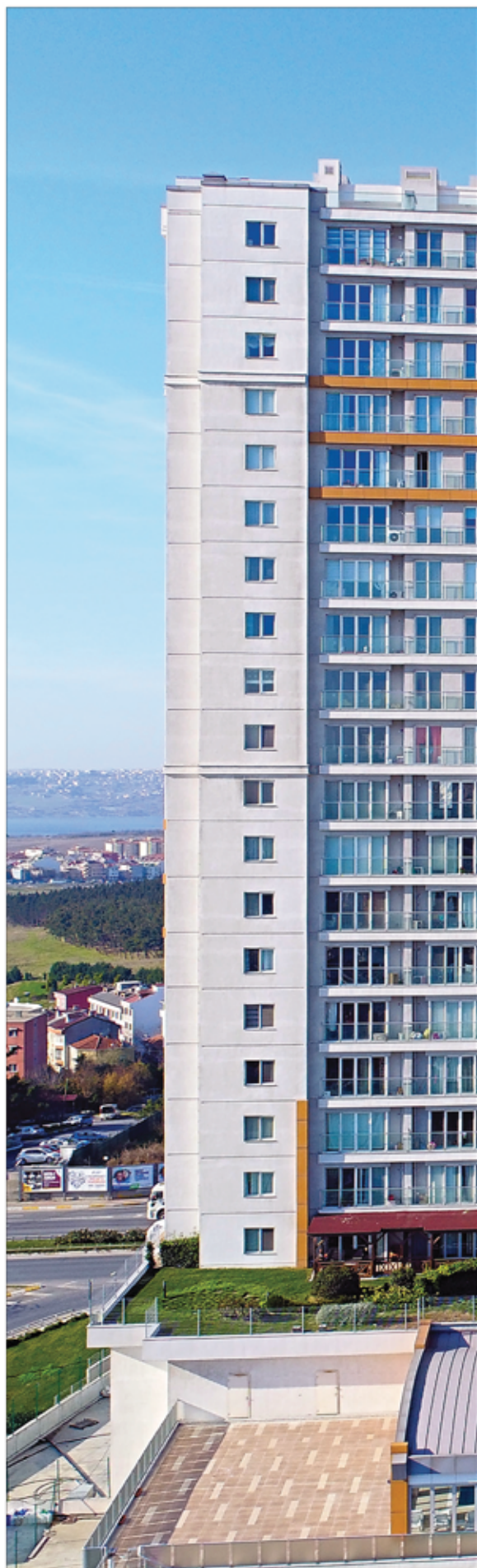
Solutions for Diverse Climates

Because temperatures, altitudes and humidity levels differ worldwide, the requirements for windows at say 1500ft in the mountains will differ from those at sea level.

But independent of your climate, a passive house with its super thermal insulation will maintain steady interior temperatures and comfort regardless of whether you are in a very warm or cold area.

Glazing options to maximize or minimize heat gain can be chosen based on this. Those in hot climates will want to reduce solar gain whereas those in cold areas will want to maximize it.

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Product Advantages

A U_w -factor of 0.8 or below narrows down the choices to uPVC windows with at least 6 chambers or alternatively (including vinyl with aluminum cladding). Since U_w -value defines the overall value including glazing and frame, the whole window is important for energy efficiency and performance, not just the glass itself.

Sunset's hi-tech "**Selenit75**" line combines all these advantages in one product..

Features & Advantages

- U_w -value < 0.14 BTU/hr.ft².°F (metric: 0.8 W/m²K)
- High R-value
- Triple glazing
- Frame material uPVC (or aluclad uPVC)
- ZERO thermal bridges
- Airtight
- Uses warm edge spacers in IGU's (thermal spacers)
- Good solar heat gain coefficient (SHGC) / solar energy transmittance
- Almost ZERO heat loss through windows
- No cold areas around windows
- ZERO drafts
- Highly stable room temperatures and consistent comfort
- No need to use heating vent or radiator near windows
- Way lower heating/cooling bills

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