

Solar control glass: the new standard for energy-efficient construction

Ulm, March 2025. *Rising temperatures and increasing sunlight hours call for adapted construction methods. To ensure comfort without compromise, windows and glass façades must prevent excessive indoor temperatures while still allowing ample natural light. With their specialist coatings, SANCO solar control glass solutions meet these demands, also delivering exceptional aesthetics. As a result, they set the new standard for climate-conscious construction. Investing in solar control insulating glass today provides an energy-efficient and sustainable solution while future-proofing buildings to meet evolving environmental standards.*

Maximising energy-saving potential

Too often, the potential of insulating glass with solar control coatings remains underutilised. These glazing solutions enhance summer heat protection, reducing or even eliminating the need for additional cooling and shading systems – along with their scheduled maintenance. Both businesses and private households benefit from long-term cost savings.

Promoting sustainability, securing financing

By lowering cooling-related energy consumption, solar control glass also plays a key role in climate protection. This is crucial not only for sustainable architecture and green building practices but also for financing considerations. Under the EU Taxonomy framework, sustainability criteria will increasingly influence financing costs. Climate-friendly solutions such as SANCO solar control glass contribute to reducing these expenditures.

Enhancing comfort: cool in summer, bright in winter

The combination of heat protection and high light transmittance creates a comfortable indoor environment without compromising daylight access. This enhances well-being and boosts productivity for occupants –

whether in offices or home workspaces. An additional benefit: reducing reliance on artificial lighting saves energy.

Solar control, thermal insulation, and light transmittance – all in one

In the moderate climate zones of Central Europe, choosing the right glass coating means finding the optimal balance between solar protection, thermal insulation, and light transmittance. The ideal solution is a multi-functional glass such as the highly selective SANCO Sun COMBI neutral 70/35 NG. With a g-value (total solar energy transmittance) of just 35%, it offers effective solar protection in summer while still enabling passive solar energy gain in winter. At the same time, its light transmittance (LT) of 70% ensures ideal daylight access indoors.

Smart coatings for every installation

The 360-degree glazing approach takes things a step further by integrating the building's location, orientation, usage, and glass surface size into the planning process – ensuring that the optimal coating is selected for each specific application. This allows for a targeted response to the specific requirements of each façade. Intense sunlight in summer can cause high indoor temperatures in south-facing façades. To prevent this, a solar control coating with a low total solar energy transmittance (g-value) is recommended. For east- and west-facing façades, a combination of heat protection and good light transmittance is more suitable. In contrast, for north-facing façades, solar control is less important, while high light transmittance and thermal insulation play a greater role in selecting the appropriate coating.

SANCO Energy Simulator

For those looking to upgrade their building's energy efficiency by replacing windows, SANCO not only provides the ideal products but also offers a specialised service. The SANCO Energy Simulator is a browser-based tool that provides practical insights into improving indoor comfort and summer heat protection. It also calculates potential financial and CO2 savings achieved by upgrading to modern windows. The SANCO Energy

Simulator can be accessed at <https://www.sanco.de/service/sanco-energiesimulator>.

Images:



Comfortable indoor climate: Solar control glass prevents overheating while still allowing plenty of natural light indoors.

Photo: Ake Ngiamsguan/iStock



The newly completed Perlach Plaza in Munich combines retail, dining, a hotel, and residential spaces. SANCO solar control glass ensures comfortable indoor temperatures and effective heat protection during summer.

Photo: TA Werbeagentur/SANCO

More information:

SANCO Beratung | Glas Trösch GmbH
Im Lehrer Feld 30 | 89081 Ulm, Germany
+49 (0)731 4096 147
press@sanco.com

Press inquiries:

Matthias Mai
mai public relations GmbH
Leuschnerdamm 13 | 10999 Berlin, Germany
Tel. +49 (0)30 66 40 40 555
sanco@maipr.com