

ŞİŞECAM FLAT GLASS GROUP

**staying warm,
saving energy,
cutting emissions**

With global warming, energy conservation and environmental awareness have become priority issues in the world. Living in a healthy environment by consuming less energy has now become everyone's target.



In the European Union, over 40 percent of all energy is consumed in buildings. By the year 2020, the EU has committed to cut around 300 million tons of CO2 emissions annually by saving energy in residential and non-residential building.

Making new and existing buildings as energy efficient as possible will make significant strides towards meeting the EU's CO2 reduction goals.

HELP FROM ARCHITECTURAL TRENDS

With the latest architectural trends, glass areas on buildings are expanding. The "glass wall" concept creates more transparent buildings with increasing safety requirements. The green building certification systems require buildings with natural light, maximum heat and solar control, all resulting in more energy saving. Şişecam Flat Glass is a member of Şişecam Group, established by bank to fulfill Turkey's glass demands.

As a global manufacturer, Şişecam Flat Glass has production plants in nine different countries, including Turkey, Bulgaria, Russia, Romania and Germany.

According to its production capacity, the company ranks among the top five flat glass companies in the world and top two companies in Europe.

Şişecam Flat Glass provides services for the architecture,

automotive, household appliances and energy sectors.

ŞİŞECAM FLAT GLASS' ENERGY EFFICIENT PRODUCTS

Şişecam Flat Glass has developed energy efficient products to fulfill latest architectural trends considering the environment and safety requirements without compromising natural light.

Şişecam Low-E Glass

Low-E Glass is specially treated with a microscopically thin, virtually invisible transparent coating on one surface. The coating reflects heat back into the building, thereby reducing the heat loss through the window.

It also reduces the heat transfer from the warm (inner) pane of glass to the cooler (outer) pane, thus further lowering the amount of heat that escapes from the window. The properties of Low-E insulating glazing enable it to be a net contributor of energy in buildings. Şişecam Low-E Glass and Şişecam Temperable Low-E Glass reduce heat loss from windows by 50 percent compared to traditional IG units. Therefore effective heat insulation in winter is provided and heating expenses are reduced. These products eliminate cold spots in winter and heat inside the room is radiated equally.

Şişecam Solar Control Low-E Glass

Şişecam Solar Control Low-E Glass and Şişecam

Temperable Solar Control Low-E Glass can transmit substantial amounts of daylight while significantly minimizing solar heat transmission. More daylight means less artificial lighting is needed inside the building, reducing utility costs and making the environment more pleasant for those living inside.

Better solar control in summer reduces air-conditioning costs, while better thermal performance in winter reduces heating costs. They also reduce UV transmission which causes fabrics to fade and have a neutral appearance close to clear float glass.

These products eliminate cold spots in winter and hot spots in summer close to windows.

Şişecam Solar Control Low-E Glass Neutral and Şişecam Solar Control Low-E Glass Neutral Selective are mainly used at residential projects where you need to heat and cool your building. Şişecam Solar Control Low-E Glass Neutral Selective has more neutral appearance and preferred in buildings where you need more daylight.

Şişecam Temperable Solar Control Low-E Glass offers the best solution for commercial buildings and conservatories where security is required, enabling toughening, heat strengthening, laminating and enamelling after the coating process.

•Neutral 62/44 ensures

to benefit from maximum daylight in projects such as residential and education complex where high light transmittance is needed; also reduces solar energy transmission by 40 percent compared to standard Insulating Glass Units, as well as decreasing cooling expenses.

•Neutral 50/33 provides solutions for green building certified (LEED and BREEAM) projects such as offices, hotels and hospitals, where optimum daylight transmittance and efficient solar control is necessary.

•Neutral 41/27 is preferred in skylights or warm climate areas where daylight control and more efficient solar protection is required.

•Şişecam Flat Glass provides solutions to the major needs and challenges of our times - now and in the future. The company manufactures valued products enhancing people's lives and the environment. Şişecam Flat Glass' aim is to be a valued partner of the glazing sector in promoting safety, security, comfort, and sustainability.

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