



Worldwide experience

FAÇADE SYSTEMS MAY LOOK SIMPLY DECORATIVE, BUT THEY OFFER ADDITIONAL ADVANTAGES SUCH AS GREAT ENERGY SAVING



Istanbul Sabiha Gökçen International Airport began operations with domestic, international and cargo traffic in 2001. The airport occupies an area of 661ha, which includes an international flights terminal catering for three million passengers a year, a domestic flights terminal catering for 500,000 passengers a year and a cargo terminal with capacity for 90,000 tonnes of cargo a year. The airport, with a 3,000m runway is equipped with the latest navigation systems.

Continuously increasing air traffic, especially in the domestic sector, has meant that the current terminals have become insufficient. Consequently the decision was made to construct a new terminal, using the project build-operate-transfer (BOT) model. Initial plans for the new airport terminal were designed by TEKEL-SISA Architecture



Partnership – the most well-established and institutionalised architecture practice in Turkey.

Construction of the new terminal has already begun and is due to be completed in October 2009. As a result, airport capacity will increase to 25 million passengers a year. Istanbul Sabiha Gökçen

Landside view of the new terminal

International Airport Investment Development and Operation (ISG), a company founded by Limak Holding, GMR Infrastructure and Malaysia Airports Holdings Berhad, has 20 years operation rights, as of 1 May 2008, of

Istanbul Sabiha Gökçen International Airport, which includes the management of the new terminal.

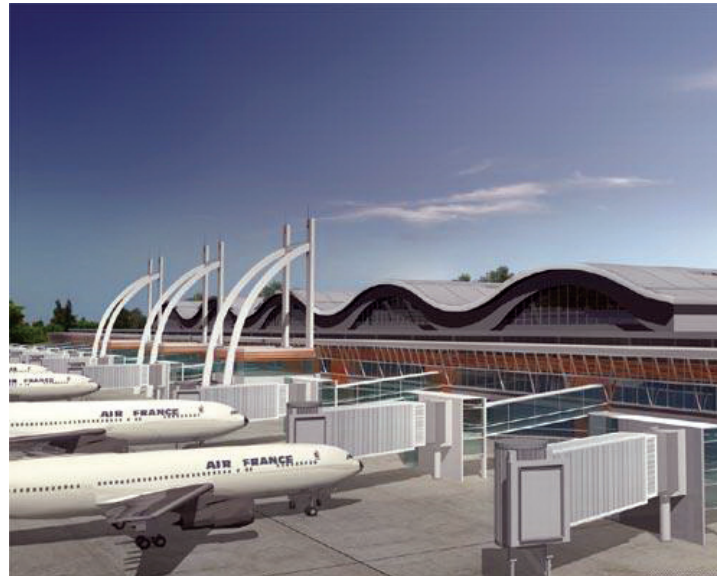
Aksoy Alüminyum will manufacture aluminium curtain wall systems, glazing systems and composite panel works for the new terminal. Generally new terminal buildings and



Tests on door, window and façade systems by the German institution ift Rosenheim. From left to right: acoustic, seismic, water/air, dynamic/wind and impact tests



connection bridges are now being built as technologically advanced structures that are in accordance with international standards and take into account geographical conditions. As the airport is located in an earthquake area the façade is produced to be completely earthquake resistant.



The new terminal will have the capacity to serve eight of the biggest aircraft at the same time or 16 medium-sized aircraft. Upon completion the terminal will be able to support Istanbul Sabiha Gökçen's rapid growth and the airport will be able to welcome more people from across the world.

Aksoy Alüminyum has gained experience in this sector by providing solutions to airports around the world. The company, with its custom-designed products, has completed many elegant, secure and energy saving projects, especially for common use areas.

At Hawler International Airport, Erbil in Northern Iraq, Aksoy worked with Turkish contractor Makyol-Cengiz to provide blast-proof façades and at Zvartnots International Airport in Yerevan, Armenia, the company worked with Argentinian contractor

Aeropuertos Argentina to provide a double façade. Aksoy has worked at other airports including Georgia Tbilisi International Airport, Astana International Airport in Kazakhstan and Kazan International Airport in Russia. Every project provided a new challenge, with different custom-designed façades and solutions required each time.

It is forecast that there will be great restrictions in energy resources over the years to come and this has encouraged many industries to find solutions. Façades, doors and windows can offer great energy-saving benefits. The use of solar panels can be incorporated into façades, which produce energy that can be used within the



Above and left: The terminal's eight boarding bridges are served by a pier all along the apron side

building – this is becoming increasingly popular in the construction industry.

Aksoy Alüminyum is a leading company in the façade cladding industry and provides energy-saving services according to its motto of quality and reliance. This has been proved with the new AK W165 door and window system and the AK F80 and AK F60 façade system, which have been tested by the German institution ift Rosenheim (Institute of Window Technologies). Before Aksoy presents new solutions to the market, the company ensures they pass international tests that take into account factors such as wind load, static and dynamic loads, impact, seismic events, air permeability, water tightness, wind resistance and acoustic factors. The products are also offered with a 10-year warranty and provide high performance according to ISO 9001 certification.

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