



Airport

Malaga | Spain | Realised by: Brakel Atmos, The Netherlands

A beautiful bright and comfortable environment

Task: create a daylight system with SHEV and ventilation

Malaga is one of the main airports in Spain. More than 10 million passengers travels through it each year. This airport underwent a large-scale renovation in 2008. A large part of this renovation involved the extension of one of the terminals. This terminal is constructed on piles and required the engineering and installation of 117 glass constructions with opening lights for daylight, SHEV and ventilation. Fast installation was crucial to limit the inconvenience to personnel and the general public.



Solution: 117 segmented glass constructions with opening lights

• Daylight system

The terminal is built on 117 piles in accordance with the architectural design. Each pile as a glass canopy of 3m x 3m with a pitch of 5°.

• Smoke and heat extraction (with ventilation)

Each glass canopy is divided into 4 segments, equipped with 1, 3 or 4 opening lights. One of these opening lights is intended solely for maintenance purposes. The remaining windows are an integral part of the fire safety system. In the event of fire smoke and heat is expelled through the windows creating a safe escape route for any people in the terminal. The opening lights are also used for daily ventilation and help in creating a pleasant climate.

Prefabricated for fast installation

Brakel was involved with the design at an early stage. The glass constructions were carefully customised for each pile. We even managed to find a solution for the limited installation time. The constructions were prefabricated enabling us to attach them to the steel constructions while on the ground. Using this method we were able to complete 10 glass roofs each week.

Result

The glass roofs have provided comfortable surroundings. There are also very pleasing to the eye. They protrude like tree huts from the terminal roof and give the building a touch of prestige.

Success factors

- Expertise and experience with the integration of SHEV and ventilation systems in glass roofs.
- Careful attention to detail and customised systems.
- Attuned to the architectural concept.
- Intelligent logistics: fast installation with prefabricated constructions.



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