

Security First

New Security-check Building Built in Modular Technology

Worldwide security experts are trying hard to solve the problem resulting from the growing numbers of passengers on one side and from the latent threat of imminent terror attacks. In addition to that it becomes more and more necessary to prevent attacks caused by criminals who might hide in the ground staff of an airport. A new EU regulation demands a comprehensive checking of all airport employees in order to minimize possible risks making sure that the flights will still be leaving according to schedule. Munich Airport made the new regulations come true and installed special checkpoints for the employees of the airport.



One of the smaller checkpoint units

Photographs by Ofra

A total of six checkpoint-buildings offer room for X-ray-units for checking items carried along and for door-type probes for the checking of persons. In addition to that the checkpoints comprise surveillance monitors and technical compartments as well as social rooms for the security personnel. Each building has two access ramps for the checking of vehicles.

Fast and Economical

The Munich Airport Company decided to have the buildings erected in the modern, time-saving modular building technology and chose the German Ofra company based at Beverungen as the building con-



Car checkpoint with corrugated aluminium cladding, lighting system and diaphragm roof.

Photographs by Ofra

tractor, which had already gained a reputation in the field of aviation by some large buildings for Airbus in Finkenwerder and an office building on the airport of Saarbrücken.

The size of each of the six new, single floor control units was adapted to fit the actual space required. All of them have a width of 4.28 m and an identical height of 3.5 m. The smallest unit built twice has a length of 5.74 m, the biggest one is 20.88 m long. The total area of all the six buildings amounts 281.81 m². The modular construction allows a very quick progress in building, so that all the six units were finished within 10 weeks only. Its special kind of statics allows an individual partition of the areas and to adapt the technical equipment and its supply lines and wiring to meet possibly changing requirements.



Supply checkpoint

Photographs by Ofra

Glazed doors and glass panes within the control rooms provide a very good survey over the different entries to each and every building as well as to the car gates outside. The adjacent rooms are marked by smaller windows in the enclosing walls. The outside view of all the six check-points corresponds with the general design features of the operational buildings of the Munich Airport. Their faces were

clad with corrugated aluminium profiles, which end in a rounded atikka giving these six buildings their own specific character.

The access ramps leading to the "critical part" with its special security demands as well as the car gates and the inspection buildings are bridged by diaphragm roofs in order to protect the checking areas against wetness. The indispensable overall view even at night is achieved by floodlights installed on the roofs of the buildings.

With these security devices the Munich airport meets the new security requirements of the European Union and provides both the technical and organizational prerequisite conditions for a safe and trouble-free handling of passengers and cargo.

Figures

Volume of building: six security check buildings comprising a total gross base area of 281.81 m²

Time taken for building: 10 weeks

Building areas:

- two units of type 01 with an area of 22.41 m² each
- one unit of type 02 with an area of 37.64 m²
- one unit of type 02 with an area of 57.03 m²
- one unit of type 02 with an area of 57.94 m²
- one unit of type 02 with an area of 83.88 m²

Contact:

Ofra Generalbau GmbH & Co. KG, Beverungen, Germany

Tel.: +49 5273 909 0

Fax: +49 5273 909 90

ofra@ofra.de

www.ofra.de