

How it's Made

## Schiphol Airport, Amsterdam

### Solid wood grill ceilings and walls

With the transfer to central security at Schiphol an entirely new set-up and design for the areas was chosen. A design in which perception plays an important role.

- Solid wood and a lot of white for a 'calming' effect
- Designed in FSC certified red oak
- The design suits different ceiling and wall loads
- A wall system that was fitted with white dowels and custom wall-distance spacers
- Project logistics suited the busy airport schedules







## Background

In 2015 Schiphol Airport switched to a new central security system which means there are now five large central security points. Safety, travel and comfort for the travellers passing through were the most important factors for the Schiphol refurbishment. As part of the entire process new security counters were placed in departure 1, 2 and 3 and the transfer filters were completely renovated.

## Design and implementation

The security process consists of four essential steps and each one has its own perception and functionality. Some steps within the process are often less comfortable for the passengers. It was very important for the architect to especially take this into consideration. Transparency, bright lights and light colours, 'warm' materials and round shapes were chosen. Besides that, elements were placed where the passengers can re-arrange their belongings. All this was done with the aim of creating a pleasant atmosphere and a restful environment.

### **Solid wood for a warm effect**

In the project the Derako grill system was frequently used as a wall and ceiling covering. This system consists of solid wooden slats with a completely open structure, which fits in well with the "open and light" vision of the design. Above all the wood ensures a warm and pleasant radiance and gives the security areas an entirely

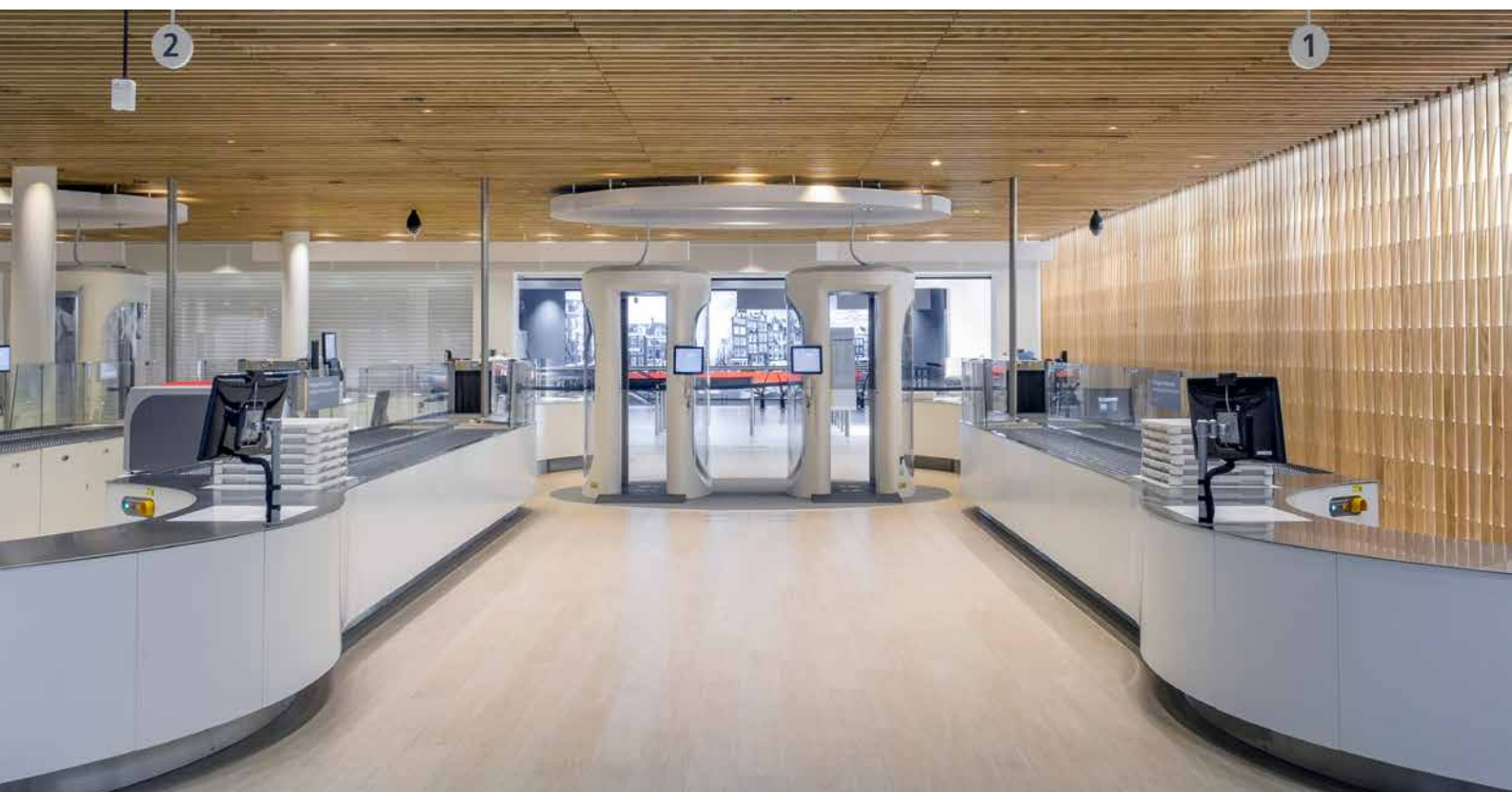
new perception. A perception that is much more comfortable and calming for many passengers. The addition of green moss like ceiling elements complimented this even further.

### **Correct length and matching joint sizes**

For the grill system the panels are always produced exactly to the desired length. For this project special closing panels were made, which means the ends of the dowels are no longer visible. Per area, in between the wooden slats, different joint widths were used so that the structure always fits in well with the surrounding elements and the desired appearance.

### **Assembly materials in the right colour**

Especially for this project, the wall grill panels were equipped with white dowels. Therefore the system visually suits the design and it integrates better with the underlying walls. For the ceiling system the dowels are normally black.







## Challenges

### Extremely open wall structures

From a design perspective it was necessary that the wall panels came forward more than usual. For this, Derako has developed a special wall-distance spacer in the same colour white as the dowels. The spacers are, just like the entire system, delivered prefabricated to save on assembly time.

### Logistics

The system deliveries took place at night using a delivery route specially created for this project. This enabled the installers to work during the night and reduce the inconvenience to the other operations at Schiphol.



|               |  |
|---------------|--|
| Architect:    | MV Architects & Benthem Crouwel Architects |
| Wood type:    | FSC American Red Oak                       |
| Measurements: | Grill system in various sizes              |
| Finish:       | Transparently varnished                    |







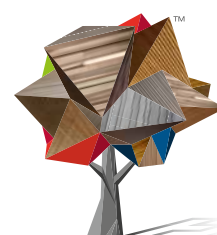
Derako offers various solutions for solid wood ceilings, walls and façades. These systems are not only often used in public buildings and leisure buildings such as swimming pools, theatres, shopping centres, and town halls but also in airports. It is these applications where systems can make a particular contribution in the field of indoor climate and acoustics. Derako constructs and operates according to the Cradle to Cradle® principle and in various system designs FSC or PEFC certified wood can be used. There are also a number of designs that can deliver a substantial contribution to the accreditation by BREEAM and LEED.



**DERAKO®**  
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