



STACKDOOR®

MARKTHAL ROTTERDAM CASE STUDY



CURVED SECURITY FOR THE ICONIC MARKTHAL IN ROTTERDAM

The Markthal in Rotterdam is a residential and office building with retail and hospitality spaces plus a large market hall. This stunning structure was designed by architects from MVRDV with the grey natural stone building making an arch-like formation like a horseshoe.

The Markthal has a glass facade on both sides; these are made up of smaller glass windows, hung around a structure of steel cables, 34 metres high and 42 metres wide, which makes it the largest glass-window cable structure in Europe. The inside of the building is an 11.000 m² artwork by Arno & Iris Coenen, named Hoorn des Overvloeds (Horn of Plenty).



The challenge was to secure the huge revolving door, an impressive 3 meters high and 4 meters in diameter, in a stylish and functional way that also met insurance requirements and suited the stylish architecture.



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The client needed to completely conceal any security gate during opening hours, allowing visitors **unhindered access without any visible security elements**. The aim was to provide effective security but also blend with the ground-breaking design of the Markthal.

Solven bv in the Netherlands were able to offer a solution and **a unique, semi-circular Stackdoor was designed to follow the curved shape of the entrance**.

A stainless steel casing that seamlessly blends into the existing architecture was required, allowing the stacking gate to disappear completely when the Markthal is open.

Installation was complex for such a huge structure, but the experienced team at Solven were able to overcome any on-site issues and created the largest semi-circular stacking gate system in the Netherlands!



Stackdoor is a lightweight system designed for maximum visibility without compromising security.

The stack-and-pin technology allows up to 80% free visibility and airflow, with no unsightly head box as the stacking mechanism requires minimal space at the top and bottom of the curtain.

The grille system used in this project is a bespoke Stackdoor Curved product and demonstrates the ability of both the product and the installation team at Solven bv, to deliver complex, custom solutions for clients.