

# Case Study

## BESPOKE FIREPROOF SHOPPING MALL ENTRANCE, ROYAL PRESTIGE 4200 AYN MCW FP30 REVOLVING DOOR, SHOPPING MALL HEUVEL, EINDHOVEN, THE NETHERLANDS.

Located in the Centre of Eindhoven, an existing mall takes on an entirely new expression - one which aims to push a complete shopping experience to its visitors: "We think that shopping in the future is going to be much more about the experience rather than just the product you buy and this is what we're trying to create - starting from the moment you enter the Heuvel from the iconic Bauporte revolving door - it's the first door in the world to be built in this way," explains project manager David Visser from client CBRE Global Investors.

The redesign by UK-based architects Dunnett Craven and Dutch practice van Aken Architecten included LED lighting and refitting the entrances. One of the main challenges was how to create the entrance from the car park to the shopping mall. We needed to meet a 30-minute fireproof door regulation and we didn't want any exhaust air from the car park to enter the retail areas so we needed an extremely functional solution. At the same time, the entrance was an opportunity to make an impression on our visitors - so we needed a highly aesthetic solution," explains James Craven from Dunnett Craven Architects.

The clients and architects wanted a revolving glass fire resistant door, requiring a special solution owing to the 3.6m height of the door. Bauporte worked with two glass companies to produce a 30-minute fireproof glass solution. "I was searching for a company that could make this one-of-a-kind door and that's where Bauporte came in. They had a smart idea that would achieve fire standards but they went two steps further than we anticipated. They designed a bespoke fire-resistant glass door with collapsible wings and ambient LED lighting in the ceiling," explains Visser. "The local fire department said that our solution was far better than any possibilities they had imagined".

The automatic 30 minutes Fire Proof Royal Prestige Revolving Door (RP 4200 AYN MCW FP30) is made with a stainless steel base construction with stainless steel mirror finish cladding. It has collapsible wings, acting as an emergency exit if calamities occur or in case of fire. At night, the door is able to automatically close against fire and together with a curved drum wall creates a 30-minute fireproof separation. Additionally, Bauporte developed an overpressure system, in the form of a special air curtain at the base of the door, to prevent exhaust air from the car park entering the mall.



## Summary

Project: Heuvel Eindhoven, The Netherlands  
Client: CBRE Global Investors  
Location: Eindhoven, The Netherlands  
Architect: Dunnett Craven Architects & van Aken Architecten  
Contractor: Strukton Van Straten BV  
Entrance: Royal Prestige 4200 AYN MCW FP30 Revolving Door  
Dimensions: Ø 4200 mm, height 3550 mm

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Making an entrance