



Refresco

Hoensbroek | The Netherlands | Realised by: Brakel Atmos, The Netherlands

“Fire safety solutions for new and existing buildings.”

Convenient both for commercial and Fire Department use: 2 fire alarm systems on 1 network

Task: bring fire safety provisions up to standard

Refresco in Hoensbroek produce soft drinks and water for retailers (own brand) while also producing A-brand drinks under licence. The soft drinks are bottled in an industrial building that was without any form of fire safety provisions until 2009. The presence of an enormous amount of disposable bottles and plastics would cause an enormous amount of heat in the event of a fire. This was totally unacceptable for the Fire Department. Refresco requested that Brakel developed a fire safety solution in accordance with the current legal requirements.

A year later, in 2010, Refresco enrolled the services of Brakel once again. This time it related to the planned construction of a new storage and transport facility. Brakel was asked to write and execute the fire safety plan.



Solution: two SHEV systems with fire detection

In both cases Brakel developed a solution based on equality that according to the Fire Department satisfied all current requirements.

1. Existing building

- A smoke and heat extraction (SHEV) system in combination with fire detection and full monitoring. In the event of fire the SHEV system would eliminate smoke and hot air efficiently allowing people to escape safely.
- The exhaust louvred ventilators of the SHEV system are integrated into a new rooflight installed by Brakel.
- To limit the spread of smoke to an absolute minimum Brakel installed 3 permanent smoke screens. The evacuation system is equipped with beacon lamps and an audible alert.

2. New build

In this 6.200 m² building, fire compartmentation was required. The 3 fire compartments were separated by walls with automatic fire doors. This meant that the maximum permissible compartment size, according to Dutch regulations, of 1.000 m² was exceeded. Brakel developed a fire safety solution based on equality. This involved using a SHEV system where the air supply was introduced to the outer compartments via overhead doors, while the air for the centre compartment was supplied by Eura facade ventilators. The air is expelled through Eura louvred ventilators in the roof. The accompanying fire alarm control panel is certified.

Integration of the fire alarm systems in a network

At the request of Refresco. Brakel created a network which was to include both fire alarm systems. This increased the user-friendliness for Refresco and the Fire Department, as any incidents could be monitored from different locations.

“Brakel can supply practical fire safety solutions for both existing production facilities and new builds.”

Result

Refresco now have comprehensive fire safety provisions. Thanks to the expertise of Brakel, this has been achieved with first-class practical solutions. In the event of hazardous situations employees are able to escape from the building safely while the Fire Department quickly locates and tackles the fire.

Success factors

- Brakel's expertise regarding equality and the current regulations.
- A robust solution that satisfied the Fire Department.
- User-friendliness for both the company and the Fire Department as both fire alarms are integrated in one network.
- Practical solutions have brought the fire safety provisions in line.



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