



Schooten Plaza

Den Helder | The Netherlands | Realised by: Brakel Atmos, The Netherlands

“Many people are once again finding their visit a pleasant experience.”
Brigitte Jacobs, Kapitein-Jacobs-Kapitein Architects

Footfall has increased once again following the renovation of the shopping centre

Task: How do you solve leakages, fire safety and an unpleasant indoor climate?

Leakages, an unpleasantly warm indoor climate and inadequate fire safety provisions. Plus one more problem: the roof of the Schooten Plaza Shopping Centre in Den Helder made it far too dark. No wonder that the number of visitors were falling. The shop owners decided to contact Kapitein-Jacobs-Architects in an effort to turn the tide. Task: solve the problems and make the shopping centre more attractive by bringing it up to date. The architects started work and immediately contacted Brakel.

The architect Brigitte Jacobs designed an open, bright shopping plaza while maintaining the character of an outside space. The old and shabby plastic rooflights were replaced with a glass roof. Brakel was assigned the task of designing modern solutions to provide daylight, fire safety and a pleasant indoor climate.



Old situation



New situation



Solution: An SHEV installation with natural ventilation under one glass roof

• Daylight system

Brakel created a sustainable, insulating glass roof with optimum transparency. A glass pitched roof to replace the plastic rooflights (pitched roof surface area 1,750 m²). Indoor climate problems were solved by using heat resistant glass with the following properties: Tl 60%, g-factor 30% and a U value of 1.1 W/m²K.

• SHEV system

To guarantee the safe escape of the public in the event of fire and smoke and heat extraction (SHEV) system was installed, which would ensure the efficient release of smoke and heat through the roof. The air supply came from 4 Estra glass louvred ventilators. The air exhaust would be dealt with by 56 Ventria opening lights.

• Natural ventilation (SHEV system, also for heat exhaust)

The SHEV system would also be used for daily ventilation. This would be controlled using Automatic Natural Ventilation (ANV), which meant that the opening lights in the roof would open automatically at a certain temperature.

Cooperation from consultancy to installation

According to Jacobs this project required a long lead-time. "We invested a lot of time in trying to convince the shop owners that this would really improve things. We contacted Brakel when we were still in the preliminary stage. Brakel was able to give us advice which enabled us, the architects, to convince our clients. We enjoyed working with Brakel; both during the consultancy period and in the installation and after-sales."

"The shopping experience for the public is much more pleasant and the products look even better."

Result

A pleasant temperature can now be maintained in the shopping centre. Excessive heat and leakages are now a thing of the past. Brigitte Jacobs: "All the shop owners have now redesigned their interior. The shows that they now have a good feeling about the place. If they didn't they wouldn't be making such an investment. The shopping experience for the public is much more pleasant and the products look even better. The situation is much improved."

Success factors

- A robust solution that satisfied the Fire Department.
- Good communication with the shop owners.
- Constructive cooperation during both the consultancy stage and the installation and after-sales.
- Sustainable glass roof: allows more light and remains transparent unlike the plastic rooflights.
- Energy efficient solution using updraft.

"An SHEV and ventilation system in one: two birds with one stone!"



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