



ROC Deltion College

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

“Good ventilation and sunblinds. And fire safety is 100%.”
Albert Vandenbergh, AGS Architects and Planners, Heerlen

Students and staff really feel at home

Task: How do you combine daylight, ventilation and a SHEV installation?

The ROC Deltion College is one of the largest educational centres in the Netherlands. The school comprises 13 buildings covering a total area of 104.000 m². The 13 buildings that make up the new school are linked by a gigantic boulevard. Such a glass covered area is unique in the Dutch educational environment. This also required a unique approach. This part of the project was subject to a separate tender due to the sheer scale of the glass roof construction. Brakel became one of the main contractors in this project.

The glass covered boulevard performs a vital function at the Deltion College. Although it is one of the main thoroughfares, this boulevard is also of great value in daily education. The students use this area regularly: they come here to study or to work together on assignments. A well lit environment with a pleasant climate can make learning fun and increase performance. Obviously, the fire safety requirements need to be assured.



Solution: glass constructions with sunblinds, an SHEV installation with natural ventilation

• Glass constructions

Brakel created 2 large central canopies over the East and West main buildings (the boulevard) and 9 separate atrium canopies including facades distributed throughout the building. The central area is covered with a curved glass construction equipped with sunblinds. Brakel also created the entrance facades and the glass facade sections between the roof and the architectural facade.

• SHEV installation

The roof and the facade have been equipped with \pm 100 opening lights and louvred ventilators. In the event of fire these ensure the efficient dispatch of smoke and heat offering the public a safe escape route.

• Natural ventilation

The SHEV installation is also used for day-to-day ventilation. Warm air is expelled through the windows and louvred ventilators.

Result

This extensive project lasted three years. A complex, inner-city project offering limited storage and involving five main contractors. The end result achieved all that was expected. An extremely comfortable climate with a pleasant learning environment has been created allowing both students and staff to feel completely at home.

Success factors

- Robust, contemporary technical solutions.
- Optimal coordination of main contractors.
- Good project management.
- Swift action in the event of problems.
- Delivery as agreed.



“Brakel has managed this complex project well and delivered on the agreed date.”

Robert Gips, ABT Construction Manager



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