

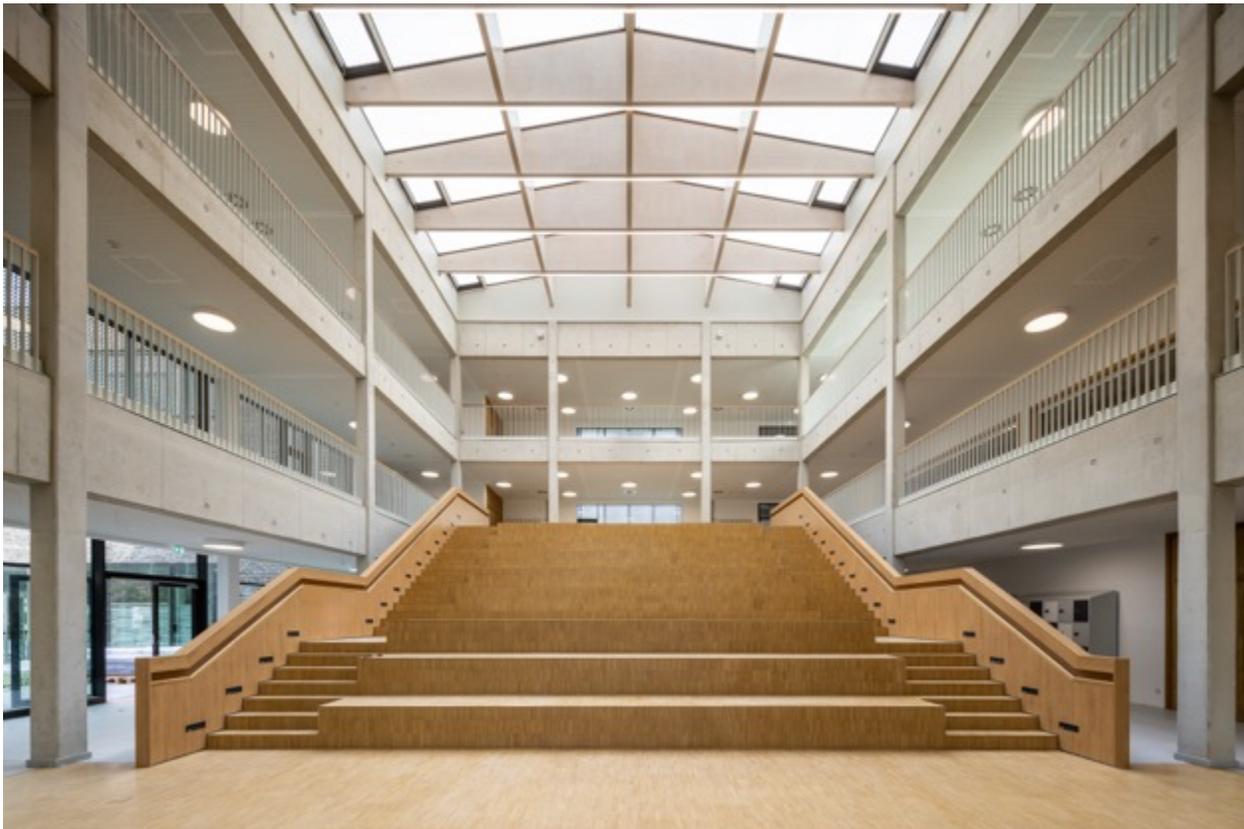


.LIGHT LOVES GLASS

PROJECT REPORT

OKASOLAR 3D: daylight solution with a highly reflective grid system

Space for bright minds



A defining architectural feature of the new Wim Wenders School in Düsseldorf is its light-filled agora. Photo: Jörg Hempel

The Wim Wenders School in Düsseldorf, named after the renowned film director and photographer, sets new standards in modern school infrastructure. As the first newly established grammar school in the city in over 60 years, it integrates the *Lernhauskonzept* (learning community model), tailored to the individual needs of both students and teachers.

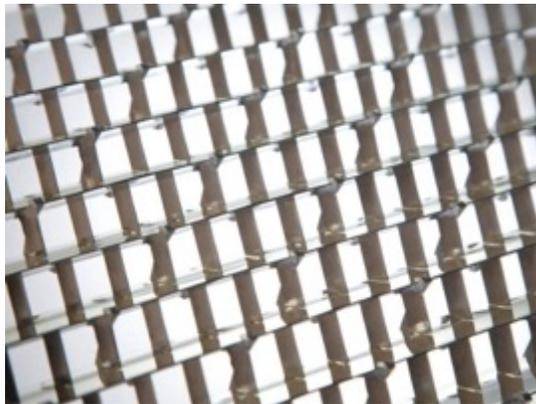


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The architectural design consists of four three-storey buildings arranged in a windmill-like configuration. This layout encourages communication within the school community while creating diverse outdoor spaces for personal interaction.

A striking architectural highlight is the school's light-filled agora. The skylight for this space features OKASOLAR 3D glass. This insulating glass contains a three-dimensional, highly reflective sun protection grid embedded between the panes, specifically optimised for roof applications. The grid allows unobstructed views to the north while preventing direct solar radiation from entering the building at any time of the day or year. At the same time, it admits diffuse daylight, ensuring even light distribution and a pleasant brightness in the interior. The modular grid system is also particularly resource-efficient.

By incorporating OKASOLAR 3D, the energy consumption for artificial lighting is reduced, and a comfortable learning environment is created – meeting the educational requirements of the learning community model.



An innovative sun protection grid ensures optimal, glare-free use of daylight.

Photo 1: Okalux Glastechnik, Photo 2: Jörg Hempel

Signboard:

Project:

Wim-Wenders-Gymnasium Düsseldorf

Developer/general contractor:

City of Düsseldorf

Architects:

agn Niederberghaus & Partner, Berlin

Daylight solution:

OKASOLAR 3D



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