

OKALUX HPI – Reference

DK | Copenhagen | University Damesalen



Project:
University Damesalen

Location:
Copenhagen/DK

Product:
OKALUX HPI

Volume:
307 m²

Architects:
Mikkelsen Arkitekter AS,
Copenhagen/DK

Completion:
2016

Symbiosis of Old and New - The extension of the Institute of Sports Sciences and Nutrition designed by Mikkelsen Arkitekter has a façade of Multifunctional Modules from OKALUX and is a harmonious complement to the existing ensemble of the Nørre Campus of the Copenhagen University. The extension of the Institute for Sports Sciences and Nutrition was more or less a pilot project for OKALUX. For the first time, so-called “Multifunctional Modules

(MFM)” would be used for an entire building shell. The new system makes it possible to combine and embed different OKALUX products in one single façade element – without additional bars; allowing the building shell to be perfectly customized to the demands on design and energy. Improved Research Conditions - The Copenhagen University is spread over several locations within the city. The Nørre Campus is, as the name implies, located in the northern part of

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the metropolis and has been further developed and expanded to an international “Science City”. Individual new constructions are incorporated as catalysts, with the focus on concentration and efficient restructuring. The plan was to enhance the quality of the Institute for Sports Sciences and Nutrition with a new construction along these lines. Discreet Presence - Space for the expansion was found on an existing, three-winged building complex designed by Carl Brummer in the early 1920s. The complex

had been expanded several times. In the late 1930s, Edvard Thomsen filled the space between the two side wings with an indoor swimming pool – a showpiece of early Scandinavian functionality to this day. A dance hall with a large zinc hipped roof was added to the south side in 1996. A further addition was planned to restore the symmetry of the entire complex and add urgently needed space. Since the end of 2016, the northern side wing has been complemented by a one-storey addition, designed by Mikkelsen Arkitekter.

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The new construction is clearly separated from the neoclassical brick façade of the existing building by a clear joint. Its material and cubic form, however, pay tribute to the homogeneity of the existing style of the façade. The additional storey complements the complex with straightforward elegance, and, in an abstract way, the cornice and attic floor give the façade structure a new interpretation. The simple, rectangular design allows for an optimal arrangement of functional spaces in an area of approximately 400 square meters. The

work places are directed towards the north, east and west, where the façade is more open and transparent. The adjacent and access areas are located towards the south, behind more closed and well insulated façade elements. Individually Customized Façade Elements - It was particularly important to the architects to enable an abundance of glare-free daylight to enter the offices, laboratory and research facilities in order to achieve a comfortable working atmosphere in the interior rooms. The rooms in which people stayed for longer durations should also have an unlimited

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view to the street in the public space. These specifications require a transparent façade without closed parapet areas. The climatic conditions in northern Europe, however, necessitate a shell with very good heat insulation. On their search for a façade system in which the transparency, U-value and incidental daylight could be adjusted to meet the demands of the planner and user precisely, Mikkelsen Arkitekter found their ideal partner company in OKALUX. The company is renowned for its ability to

collaborate with architects to develop solutions that are perfect for each project. Modular Design - The so-called Multifunctional Modules (MFM) are perfect for the entire building shell of the extension. What makes this system solution so special is that you can choose which inserts will be inserted into any specific façade element. OKATECH HPI inserts with expanded aluminum metal and KAPILUX T inserts were combined without an additional bar in the area of the façade in which their specific effect was desired: the

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KAPILUX inserts in the skylight area in order to diffuse daylight deeply into the interior, the OKATECH HPI inserts in the areas in which shading was required. The architects specified three element types with different configurations to accommodate the specific situations and requirements of the interior with custom-fit solutions. The glass façade achieves good heat insulating values similar to those of massive walling. The HPI inserts achieve Ug-values of

0.3 W/m²K, the capillary inserts 0.7 W/m²K and the transparent areas values of 0.8 W/m²K. Another advantage is the significantly narrower build-up of the multifunctional modules which adds space to the interior side. The multifunctional modules used on the complete façade are more than highly functional. Stig Mikkelsen especially appreciates that they correspond exactly to his aesthetic concepts and communicate the underlying idea of the design.

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