

Sustainable facade technology for the Aker Tech House

Lysaker, Norway





Project Description

In the up-and-coming district of Fornebu Porten in Oslo, the Aker Tech House has emerged as a pioneering office building that impressively combines modern architecture, innovative facade technology, and sustainable materials. The seven-storey new build, offering approximately 30,000 m² of usable space, provides room for companies within the Aker Group, focusing on software development and renewable energy.

A particular architectural highlight is the fully glazed front facade, which offers views from the piazza onto the central, spiral staircase finished in a polished gold tone. The building is BREEAM certified.

Sustainable Facade Solution with System

Lindner Scandinavia was responsible for the complete delivery and installation of the building envelope and realised a technically and aesthetically impressive solution using the LS3000 Timber and LS3000 Link systems.

The vertical facade surfaces were constructed with the specially developed LS3000 Timber system, which replaces conventional aluminium substructures with load-bearing timber frames. This reduced the CO₂ footprint of the facade by up to 65 %. At the same time, thermal performance was improved by around 30 %, not least due to the use of regionally produced glued laminated timber.

The prefabricated timber facade elements were fitted with external solar shading systems and are worldwide unique in this type of construction and design. A total of 648 modules and 1,523 panes of glass were installed, including glazing of an impressive size of up to 6.2 × 2.7 metres.

Timber Structure Meets Glazing

Timber was also used as the load-bearing structure in the roof area, combined with the LS3000 Link system. The glass roof rests on a primary timber structure, in which vertical wooden supports with a cross-section of 400 × 400 millimetres carry the reinforced concrete floors. These are additionally stabilised with pre-tensioned hangers between the beams.

At the front of the building, a secondary timber structure complements the load-bearing framework, supporting a structural glazing system. The LS3000 Link system enables the secure and elegant fixing of glass surfaces onto the various timber support structures. Thanks to its two-stage sealing and slender, unobtrusive profile, it provides a high-performance yet visually discreet solution for large-scale glazing.

General

Building Type	Office buildings, Refurbishment, Industrial and commercial construction, Others
Company Division	Lindner Scandinavia AB (Exterior)
Completion	2023
Architect	Wingårdhs
Client	Aker Property Group
Building certification	BREEAM



Completed Works

- **Facades**





