Oslo Airport, Terminal 2 Expansion of Oslo Airport and the Construction of “Pier North”

Gardermoen, Norway

Lindner



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Project Description

With the expansion of Oslo Airport and the addition of the new Pier North terminal, Norway's largest airport has significantly increased its passenger capacity. The new terminal section, extending 300 meters in length, adds eleven new gates and offers expanded areas for retail, dining, and passenger services. As a result, the airport can now accommodate approximately 30 million passengers annually, making it a key aviation hub in Scandinavia.

Architectural Highlight: Freeform Timber Pavilions

A defining architectural element of Pier North is a group of five freeform pavilions, developed, planned, and installed by Lindner, in close collaboration with the client Avinor and the architects at Nordic – Office of Architecture. These organically shaped structures were built during ongoing airport operations and are fully integrated into the terminal's design.
To reduce construction weight and simplify logistics, Lindner proposed replacing the originally planned steel framework with a glued laminated timber (glulam) structure. The entire load-bearing system was digitally designed as a ribbed frame using 3D modeling software, resulting in more than 10,000 uniquely milled wooden components, each precisely numbered for efficient on-site assembly.
The pavilion's exterior was formed using multiple layers of flexible gypsum plasterboards, ensuring fire resistance and the desired curvature. A mineral lime plaster finish, custom-colored in collaboration with the architects, adds visual depth and durability to the outer surface.

Bespoke Interior Design with Acoustic Performance

The interiors of the pavilions feature approximately 8,000 triangular metal panels, each individually designed to fit the complex geometry of the structures. These custom acoustic panels offer both sound control and aesthetic consistency. A project-specific substructure was developed to support the design and ensure seamless installation.
The pavilions are currently home to a duty-free shop, bookstore, bank branch, bakery, and fashion boutique. Inspired by Nordic rock formations, their organic shape creates a distinctive visual identity while blending harmoniously into the overall airport architecture.

BIM-Based 3D Planning for Complex Construction

The entire planning process was carried out using Building Information Modeling (BIM), a digital methodology that enables fully integrated 3D architectural and construction planning. BIM allowed Lindner to simulate construction phases, identify clashes early, and coordinate all trades effectively. This digital workflow helped meet critical project deadlines while ensuring top quality across all phases.
Thanks to BIM, stakeholders were able to visualize detailed design elements, perform real-time feasibility assessments, and maintain clear, continuous communication. The result was a seamless construction process, efficient material usage, and thorough documentation for long-term facility management.

High-Performance Interior Systems in Pier North

In addition to the pavilions, Lindner delivered a wide range of technical interior solutions throughout the new terminal section. These include approximately 18,000 m^2 of custom-designed, diamond-shaped ceiling and wall claddings, as well as 2,000 m^2 of expanded metal ceilings and 7,000 m^2 of lay-in ceilings in central public areas.

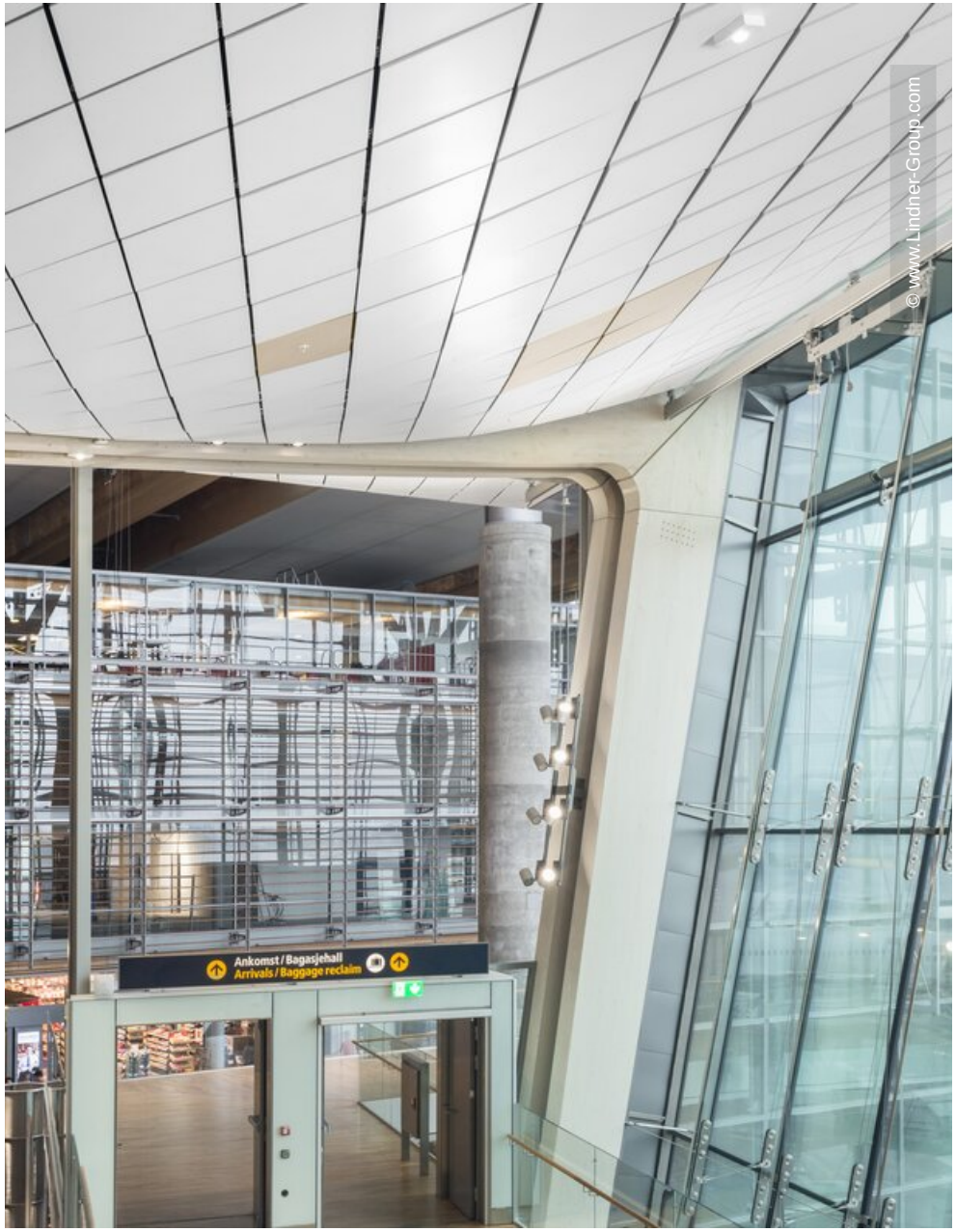
A key technical feature is the FLOOR and more® power comfort raised floor system, covering 20,000 m² in total. This robust flooring solution integrates underfloor heating and cooling, enabling energy-efficient climate control in high-traffic airport environments. Designed for maximum load-bearing capacity, the system meets both functional and sustainability criteria. Installation was completed by Lindner's local partner, Sana Bygg AS.

General

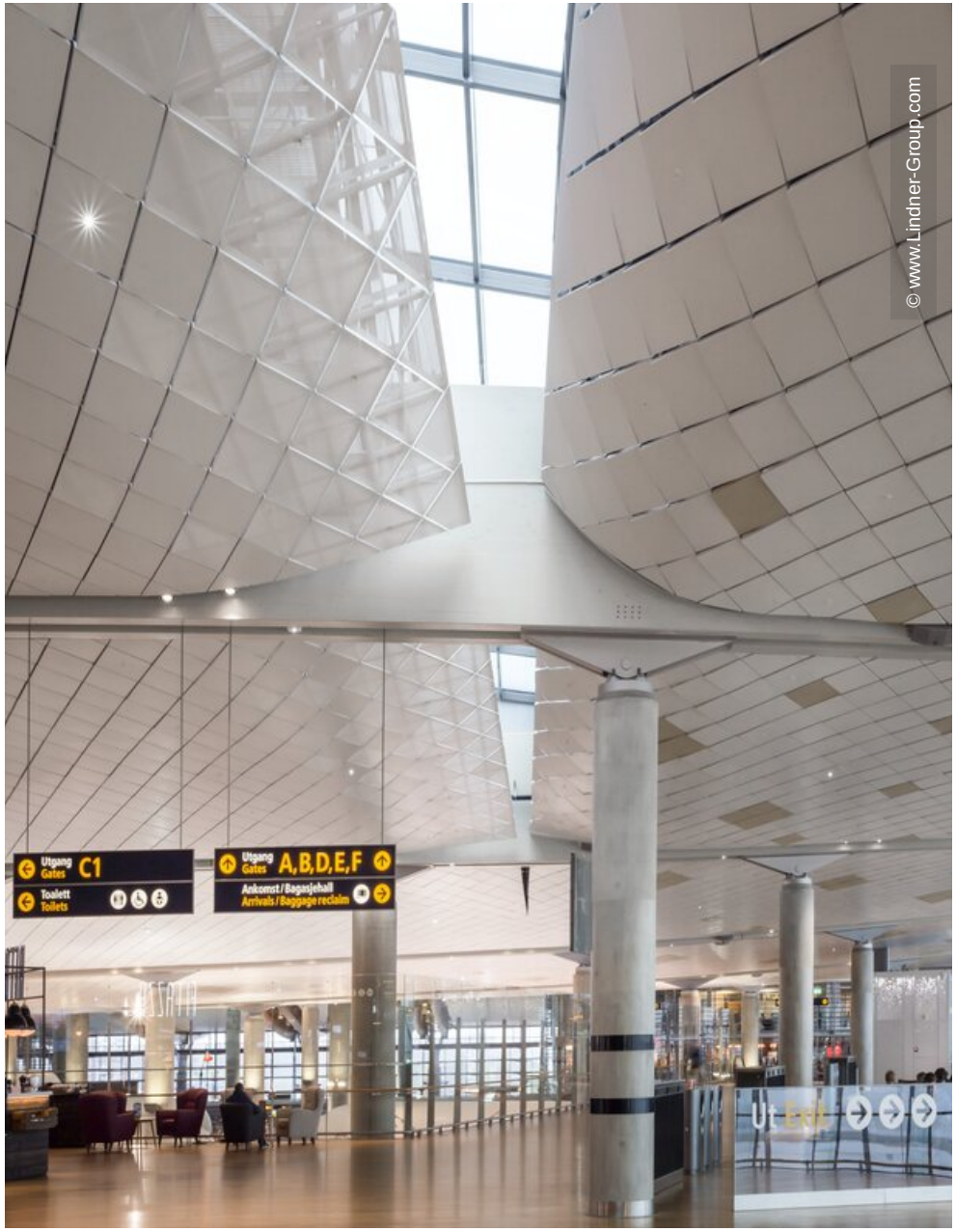
Concept	Expansion of Oslo Airport and the Construction of "Pier North"
Building Type	Airports, Building certification, Others, Transportation Structures
Company Division	Lindner SE I International Projects Contracting, Lindner Scandinavia AB (Exterior)
Completition	2017
Architect	Nordic
Client	OSL Oslo
Building Certification	BREEAM

Completed Works

- **Ceilings**
  Projektbezogene Lösungen 18000 sqm
- **Floors**
  Calcium Sulphate Panels
  FLOOR and more® comfort 20000 sqm
- Dry construction works

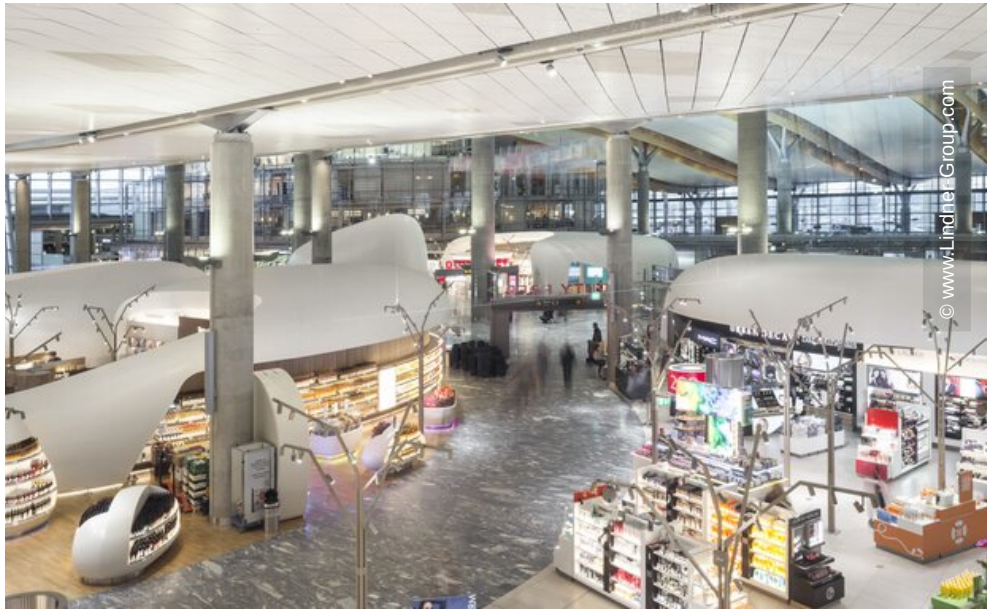


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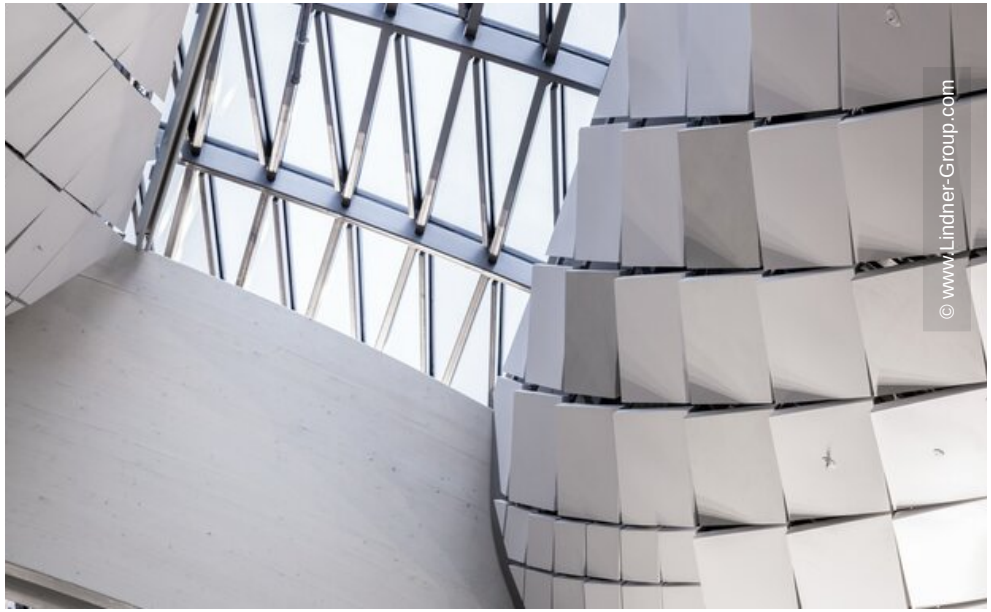

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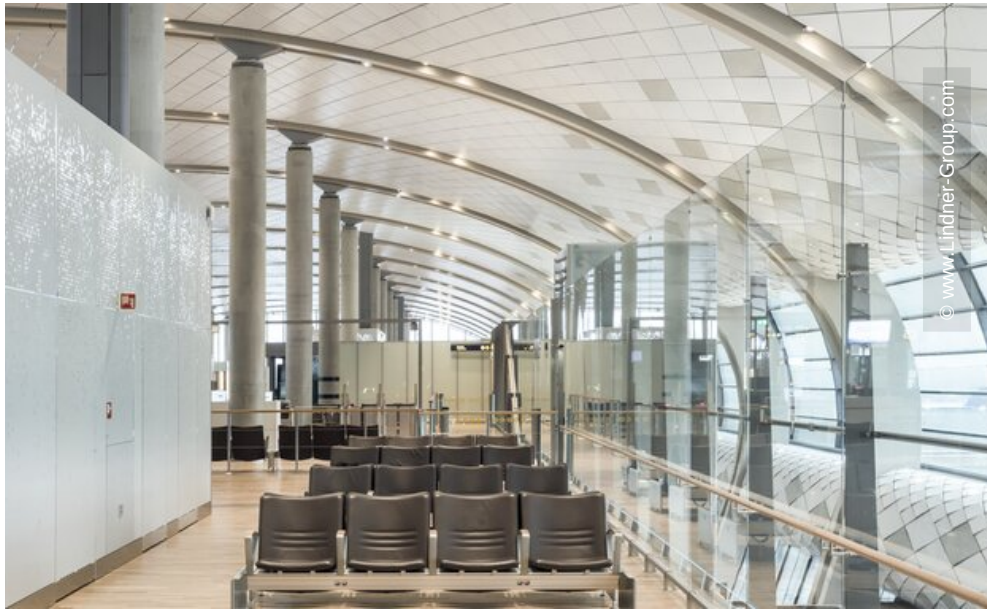

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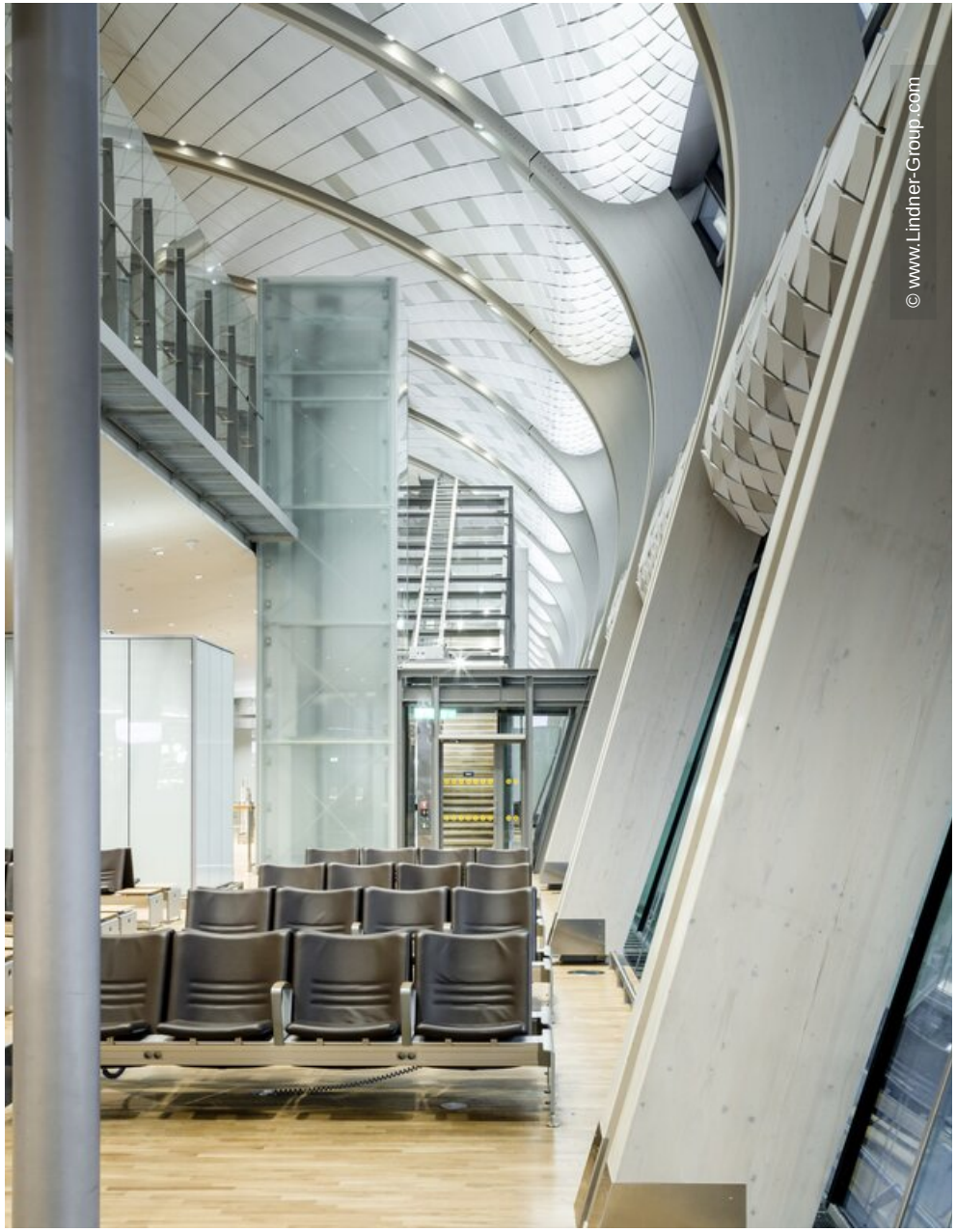

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