

Cleanroom Expansion for New SWACRIT Site in Nassereith

Nassereith, Austria





Project Description

In Nassereith, Tyrol, a state-of-the-art operational and production facility with a gross floor area of around 8,000 m² was constructed for the leading Tyrolean technology company SWACRIT systems. The new building provides the foundation to meet the growing global demand for high-tech products in the fields of semiconductor and vacuum technology.

The planning was carried out by the architectural firm ATP. The Lindner SE | Cleanroom Technology division was responsible for the complete technical design and implementation of the cleanrooms – from conceptual planning to structural design of walls, systems, and ventilation, through to detailed execution planning. Particular focus was placed on particle reduction, keeping harmful substances away that could affect later production processes, and maintaining a constant temperature with only ± 0.1 K deviation.

Cleanroom Systems for Precision and Stability

Two different [cleanrooms](#) were implemented: an ISO 6 room of approximately 1,500 m², which can optionally be upgraded to ISO 5, and an ISO 8 room of around 200 m². Mobile Cleanroom workstations with integrated FFUs and perforated work surfaces additionally provide particle safety and flexibility.

The cleanrooms feature the PRODATA raised floor and the ALUVENT perforated raised floor over more than 1,000 m². These systems offer maximum load-bearing capacity, perfectly level surfaces, and safe integration of supply lines. Room division was realised using the Multiclean LVT cleanroom wall system, which meets all DIN EN ISO 14644 requirements and clearly separates different process areas.

Door and Airlock Systems

Various Lindner door systems were installed to provide secure access. Swing MPH cleanroom doors combine a flush design with high durability and easy cleaning. They are complemented by fire doors and the Inline 2 control system, which enables intelligent airlock logic. Personnel airlocks are equipped with air barrier systems to reliably remove particles from staff.

Cleanroom Ceilings with Integrated Technology

In the cleanroom area, the Line 100S Type 2 cleanroom ceiling was installed over an area of around 1,600 m². It provides stability and allows the integration of technical elements. Air cleanliness is ensured by integrated Fan Filter Units and two FFUSD systems, which maintain a uniform, low-particle airflow. Numerous RR o cleanroom lights provide even, glare-free illumination of workstations.

In the workshop, the Clip K3 ceiling system was chosen. This Clip-In/Fold-Down system allows individual panels to be folded towards the room side, greatly facilitating maintenance and cleaning. Integrated lights ensure energy-efficient and standards-compliant lighting.

Sustainability and Construction

Special attention was paid to resource-efficient construction. By recovering heat from production processes and using geothermal energy, the facility operates entirely without fossil fuels. Photovoltaic systems on the roof and parking areas supply the production with independent, self-generated electricity. Greened outdoor areas, reduced surface sealing, and the integration of wooden ceilings contribute to sustainable practices and harmonise with the Alpine surroundings.

General

Building Type	Office buildings, Factories and production facilities, Clean rooms (electronics and semiconductor technology)
Company Division	Lindner SE Clean Rooms
Completion	2024 - 2025
Architect	ATP architekten ingenieure
Client	SWACRIT systems GmbH

Filter Fan Upside Down (FFUSD)

2 Pcs.

Completed Works

• Clean Room

Clean Room Floor	
ALUVENT	
PRODATA	
Partition systems 100	
Multiclean CLVT	
Multiclean LVT 437	
Hinged doors	
Swing MPH	16 Pcs.
Sliding doors	
Slide-In MPH	2 Pcs.
Door interlocking systems	
Door interlocking system Inline 2	9 Pcs.
Steel grid systems	
Line 100S Type 2	1620 sqm
Clip-in cassette systems	
Clip K3	185 sqm
Integrated lights	
RR-o LED-H	144 Pcs.
SH LED-H	17 Pcs.
Supply air	
Filter Fan Unit (FFU)	178 Pcs.

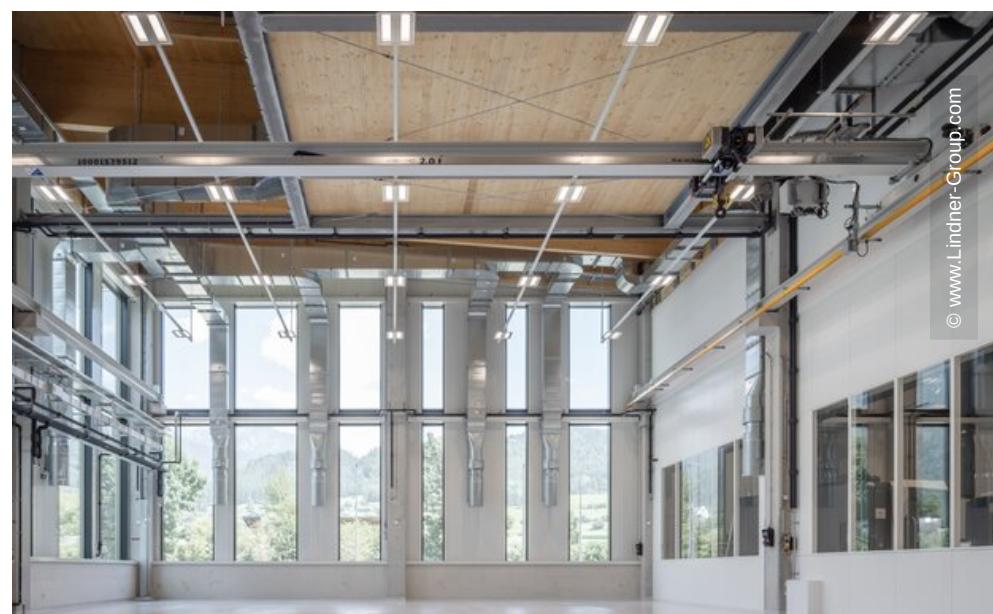


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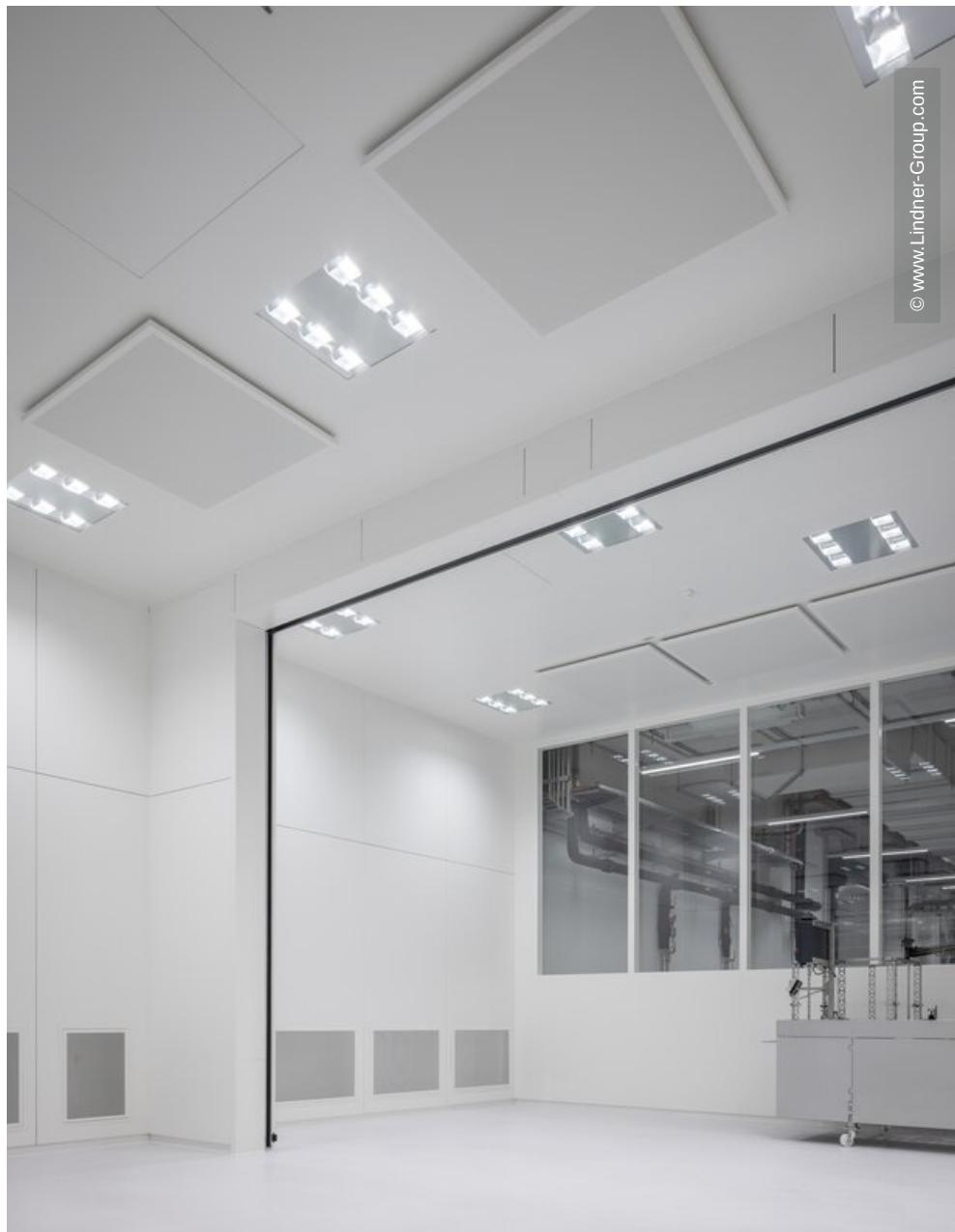
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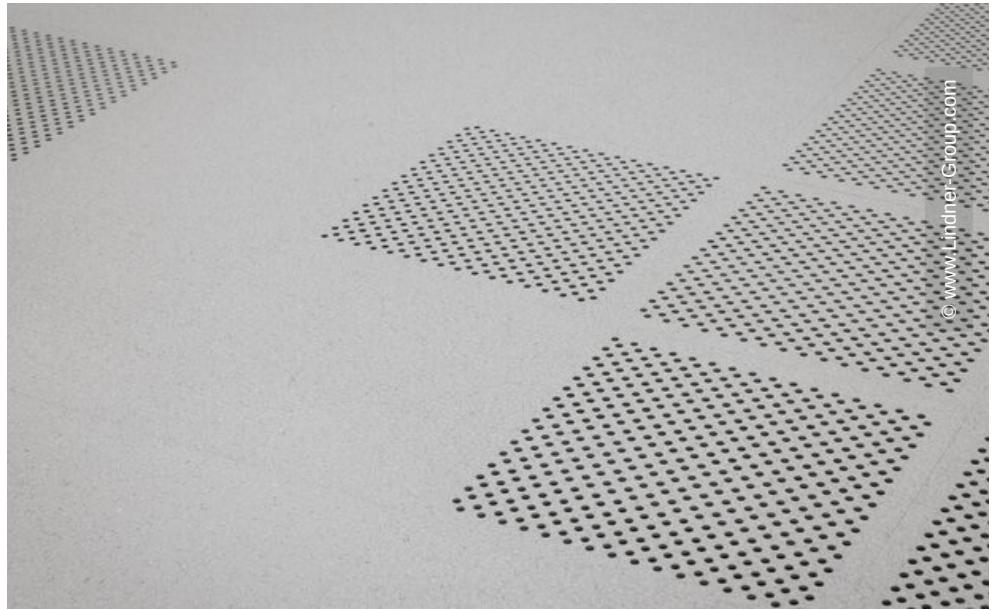
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