

TRIMO MO MSS

CASE STUDY
**SIEMENS ENERGY
WORKSHOP
& OFFICE BUILDING**

BUILDING TYPE **MODULAR /
COMMERCIAL BUILDING**

INVESTOR **SIEMENS ENERGY**

ARCHITECT **ARCHITEKTBURO RIBARICH**

PRODUCT **MODULAR UNITS WITH QBISS
SCREEN FACADE**

INSULATION **MINERAL WOOL**

LOCATION **AUSTRIA**

COMPLETION **2024**



OVERVIEW

Siemens Energy required a permanent workshop and office facility. The key objective was to deliver a **functional, compliant, and visually refined building** within a short timeframe, without compromising technical performance or regulatory requirements.

In addition to speed, the project had to meet strict urban planning conditions, which did not allow a typical industrial appearance. This required a solution that would **combine the efficiency of modular construction with a high-quality architectural expression.**

Trimo was selected as a single solution provider, delivering both the modular building and the architectural Qbiss screen façade. The result is a two-storey modular commercial building that combines rapid construction with high standards of fire safety, acoustic comfort and architectural quality.





PROJECT CHALLENGES

The project presented several technical and logistical challenges, addressed through close coordination, engineering expertise and modular innovation:

1. Seven months from confirmed design to handover

The project timeline required rapid design, manufacturing and on-site assembly. Trimo's modular approach ensured the entire project — from design and engineering to final handover — was completed in approximately seven months.

2. Strict fire safety requirements (EI90 / REI90)

The client required the highest level of fire resistance for the ground floor units (REI90). This was achieved through reinforced structural solutions, fire-rated corridors and doors (EI90), and fire-rated casings applied to load-bearing modular columns.

3. Enhanced acoustic performance

Due to the building's proximity to a busy road, enhanced sound insulation was required. The façade design and glazing solutions provide acoustic performance of up to 37 dB, contributing to improved indoor comfort.



4. Complex structural configuration

The building features a cross-arranged modular layout with overhangs and modular units positioned above projections. Reinforced ground floor construction, intermediate spacers, and modular units above the overhang ensure structural stability.

5. Challenging site logistics

Installation took place alongside a regional road, with limited access and the need for a long-reach mobile crane. Precise planning enabled safe and efficient installation of both modular units and façade elements.

These challenges required a **highly coordinated approach**, where engineering precision, modular flexibility and on-site execution were aligned to deliver a complex building within a short timeframe.

THE DELIVERED SOLUTION

The completed building is a two-storey modular office and workshop facility, demonstrating the **flexibility** and **scalability** of Trimo's modular systems in more complex commercial applications.

The architectural expression is defined by the **Qbiss screen façade** – a prefabricated, high-performance façade system that combines aesthetics, energy efficiency and design flexibility. It transforms the modular structure into a contemporary commercial building in line with local planning requirements that restricted an industrial appearance.

Trimo delivered **97 modular units**, reinforced ground floor construction, the Qbiss façade system, **fire (EI 90 / REI 90)** and acoustic performance solutions, innovative floor joint detailing, and fire-protected load-bearing columns. The secondary roof structure was designed to accommodate photovoltaic installation, with the PV system implemented separately by the client.

The project demonstrates how **modular construction**, when combined with advanced façade systems and engineering expertise, can deliver **complex, high-performance buildings within short timeline**.





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