

Crane-independent building redevelopment: DUO masters challenging formwork tasks

Apartment building, Dietikon, Switzerland

During the refurbishment of an apartment building on Bollenhofstrasse in Dietikon, Switzerland, the constraints were clearly defined: work within the existing structure with limited space, and do not continue to use a crane once the slab has been concreted. Therefore, for the formwork operations on a sloping reinforced concrete slab and a lift shaft, the required solution needed to be adaptable, easy to work with and capable of operating without the need for a crane. With the DUO Universal Formwork system, the contractor, Wanner & Lott AG, opted for a system that is specifically suited to these requirements.

Working without a crane – even after the concreting phase

A major challenge posed by the project was that it was no longer possible to use a crane once the slab had been concreted. Therefore, the formwork solution used had to be easy to work with even without lifting equipment. DUO Universal Formwork met this requirement thanks to its low weight: all components in the system weigh less than 25 kg and can therefore be carried and fitted by hand. This meant that the formwork operations could continue efficiently even without access to a crane.

One system for multiple applications

In this project, DUO was used for both the lift shaft and the sloping reinforced concrete slab. The versatility of the system was particularly evident during the construction of the sloping reinforced concrete slab. Thanks to the adaptable modular design, the formwork could be adjusted to the required geometry. “You can build to any specifications,” says foreman Claudio Grassi, describing the system’s advantage.

DUO’s high level of adaptability reduced the need for additional formwork solutions and simplified the performance of various formwork tasks on site.

PERI SE
Formwork Scaffolding Engineering

Contact person

Tanja Jacob
Tel. +49(0)7309.950-1173
Fax +49(0)7309.951-1173
content@peri.com



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Lower material requirements and cost-effective implementation

As well as being easy to use, DUO impressed with its efficiency on site.

Deploying the system made it possible to reduce material requirements compared with a conventional solution. “Without DUO, we would have needed a lot more materials. “That’s how we managed to make quicker progress,” says Claudio Grassi, summing up his experience. Furthermore, it was possible to use existing materials for the most part, which had a direct impact on the project’s cost-effectiveness.

A versatile solution for building redevelopment

The project in Dietikon demonstrates the benefits of DUO in building redevelopment projects. The lightweight system components enabled work to be carried out without the need for a crane and made handling straightforward on the construction site. As the DUO system could be used for both the sloping reinforced concrete slab and the lift shaft, a single system was sufficient to carry out a variety of formwork tasks. This simplified the planning process and made it easier to carry out the work on site.

About PERI

With sales of € 1,862 million in 2025, PERI is one of the leading manufacturers and suppliers of formwork and scaffolding systems in the world. The family-owned company, with its headquarters in Weissenhorn (Germany), a workforce of around 10,000 employees and more than 140 warehouse locations in more than 60 countries, provides its customers with innovative system equipment and comprehensive services relating to all aspects of formwork and scaffolding technology.



Photo 1

At an apartment building in Dietikon, the DUO Universal Formwork system was used to carry out the formwork operations on the existing structure in a cost-effective manner.

(Photo: PERI SE)

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Photo 2

DUO can be used either manually or with crane assistance in line with on-site requirements.

(Photo: PERI SE)



Photo 3

The sloping reinforced concrete slab was supported securely using DUO formwork in combination with MULTIPROP Slab Props and SRU components.

(Photo: PERI SE)



Photo 4

DUO facilitates efficient execution of formwork operations for complex geometries in existing structures.

(Photo: PERI SE)

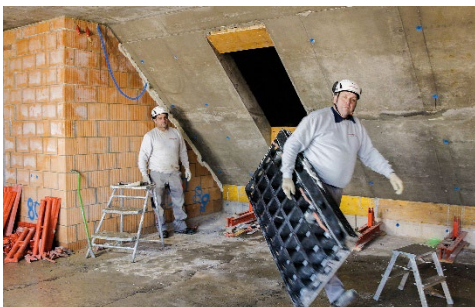


Photo 5

The low weight of the formwork elements made them easier to transport and assemble on the construction site.

(Photo: PERI SE)

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peri.com/press



Photo 6

The DUO Universal Formwork system impresses with its user-friendly handling characteristics and reduces the time and effort required for assembly on site.

(Photo: PERI SE)

Contractor

Wanner & Lott AG, 8105 Regensdorf, Switzerland

Field Service

PERI Switzerland, Seuzach

PERI SE
Formwork Scaffolding Engineering

Contact person

Tanja Jacob
Tel. +49(0)7309.950-1173
Fax +49(0)7309.951-1173
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