

Report Construction Distribution Center (DC) Estée Lauder, Galgenen SZ, Switzerland



Estée Lauder Companies is a New York-based cosmetics company founded in 1946 by Estée Lauder. The company distributes high-quality and highly efficient skin care, make-up and fragrance products in over 150 countries worldwide with a total of over 30 brands and \$13.7 billion in sales.

The best known are Estée Lauder, Clinique and La Mer. In Switzerland, the products are available in selected department stores and specialist shops and via the company's own online shop.

Estée Lauder AG, Lachen, is building a new Distribution Center (DC) in the municipality of Galgenen SZ, which will primarily serve to strengthen the Travel Retail distribution channel. This includes the supply of duty free shops with their airports, airlines, shipping traffic, reselling points, etc. in city centres and shops in border regions in more than 120 countries.

Facts at a glance

Project

Distribution Center (DC) Estée Lauder
Galgenen SZ

Owner

Estée Lauder AG, Lachen SZ

General planner

IE Industrial Engineering, Zurich

Civil engineer

HTB Engineering Office AG, Pfäffikon SZ

Contractor

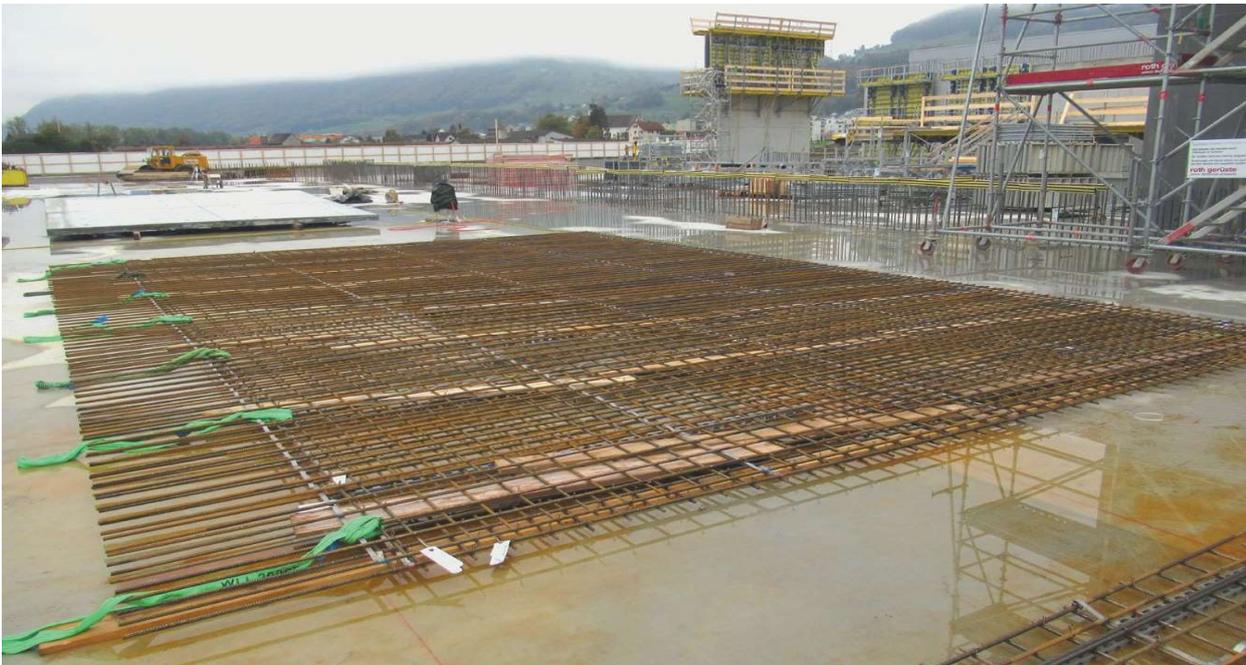
ARGE Föllmi AG, Feusisberg/
Butti AG, Pfäffikon SZ

Scope of delivery BAMTEC

Amount wall sections: 155

Wall heights: up to 6m

BAMTEC quantity: 350 t

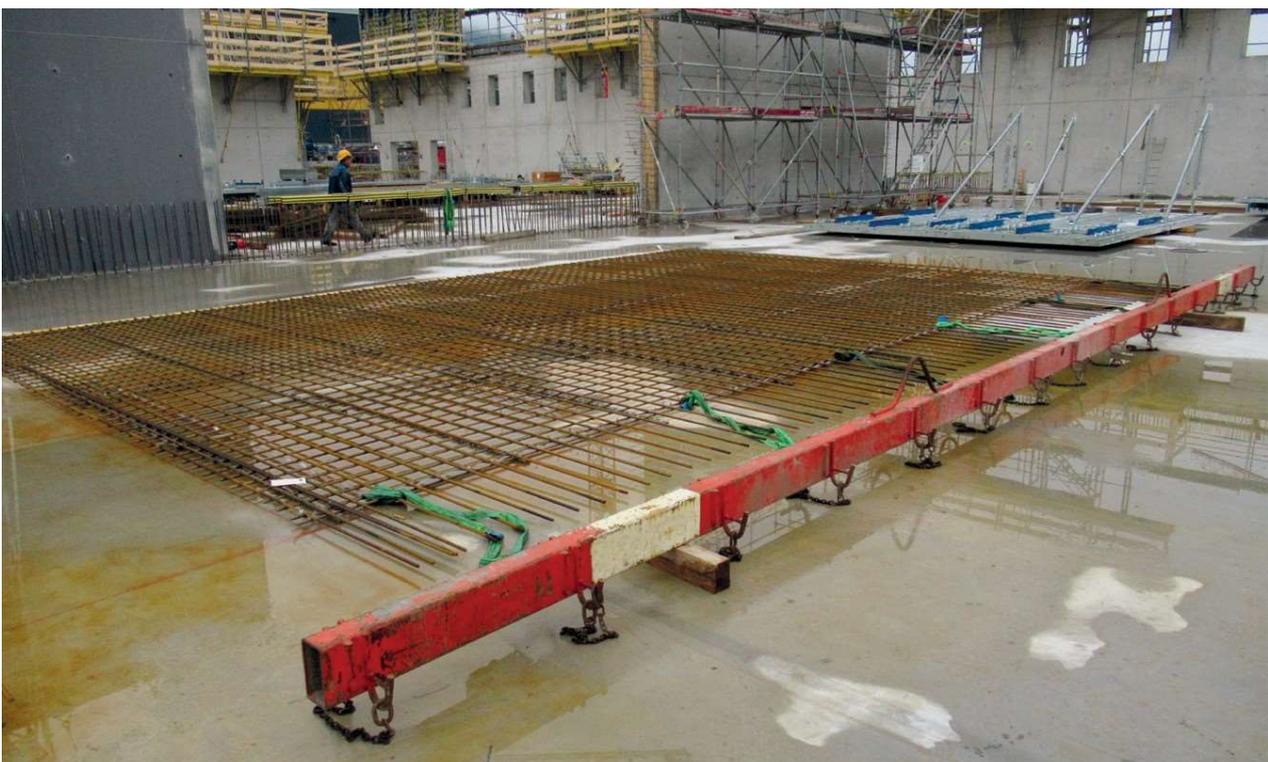


The shell of the two-storey building in Galgenen with a usable floor space of around 21,000 m² has been completed, is now in the interior finishing phase and will be operational in 2021.

The owner has awarded the contract to ARGE Föllmi/Butti for the execution of construction. In seven months, 21,000 m³ of concrete had to be poured,

2,500 t of reinforcement and 155 wall sections. These 155 sections were essentially 5 straight wall panels of approx. 90 m length each, with a total height of 18 meters. The total height of 18 m was reached in 4 parts with sections of about 10 meters in length.

For the ARGE, the deadline for the completion of the work was a challenge.



For Stefan Walcher, the technical director of ARGE, the scope of the wall sections on the critical path and for his ARGE colleague, Gian-Reto Lazzarini, work safety was a major concern. On the basis of this initial situation, the contractor decided to use Doka's system solution for the wall formwork and BAMTEC rolled reinforcement for the wall reinforcement.

The company Föllmi always uses BAMTEC for selected objects. Now for the first time successful with vertical surfaces. The project manager expected a higher productivity from the BAMTEC solution and his ARGE partner expected prevention of the latent risk of accidents when working at great heights on scaffolding.

The solution:

- Locher Bewehrungen planned the BAMTEC solution according to the specifications of the civil engineer, produced the carpets and delivered them just-in-time to the construction site.

- The steel fixers produced the BAMTEC rolls on the floor plate to large-area reinforcement meshes
- These prefabricated reinforcement elements were moved into the formwork by crane, then the formwork was closed and the concrete was poured.

Benefits of the BAMTEC solution

- Fixing the reinforcement on the floor plate
- Elimination of absence times thanks to prefabrication of reinforcement
- High fixing quality and error reduction
- No separate working scaffolds required for reinforcement installation
- Steel fixing parallel to other processes
- Enormous increase in productivity



Interview with Stefan Walcher, technical director of ARGE Baumeister Föllmi/Butti



Mr. Walcher, you have strongly supported the reinforcement system BAMTEC in the job preparation schedule. What were your motives?

The object had 155 wall sections with sections heights between 4 and 6 meters and total heights of 18 meters. With this circumference it is worthwhile to think wisely about the procedure. On the scaffolding there was only 70 cm space between the formwork and the wall, which made it practically impossible to erect intermediate scaffolding. Therefore, we wanted to manufacture the reinforcement on the ground and move the finished elements into the formwork. I also hoped for greater efficiency in steel fixing, which would result in much higher productivity.

What was the benefit of using BAMTEC rolled reinforcement for you?

Additional work safety, by shifting the work from the height to the safe ground, less crane time,

and time savings and, not insignificantly, lower costs

What feedback did you get from the steel fixers?

The steel fixer was able to eliminate or fill in standing and absence times. The employees were certainly not unhappy to be less exposed to the risk of falling. With a building that large there was also enough space for the assembly. From a certain point in time, the 4 layers on the ground were assembled into a single reinforcement element and moved into the formwork with one crane pull.

How did you experience the cooperation with Locher Bewehrungen?

The cooperation with the planning team was good, there were simple interfaces. The logistics, Just in Time, were flawless, combined with a very good delivery service.

Would you use BAMTEC again?

We look at the system object-related. For walls we used BAMTEC for the first time, after we've used it many times in horizontal surfaces. I'm a fan of this reinforcement. Certainly it was worth it with this project!

