RINGSCAFF
MOBILIS ANDERLECHT
BELGIUM

ABOUT ALHEEMBOUW

With over 50 years of experience, the Belgian construction company Alheembouw implements projects ranging from new construction and renovation of public, residential and commercial buildings or offices to industrial complexes and infrastructure works.

In 2020 Alheembouw was assigned to build the new Mobilis multi-purpose building in Anderlecht. For more information on Alheembouw, please visit www.alheembouw.be.

PROJECT QUICK FACTS

- **Project type:** new construction of the energy-neutral Mobilis car showroom in Anderlecht, Belgium
- **Scaffolding system:** 130.000 m³ RINGSCAFF modular scaffolding system
- **Challenge:** The waffle slab construction required large quantities of concrete to be poured directly on site. All the shoring equipment had to be erected and dismantled in a very short time.

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> ### ABOUT MOBILIS
> FUTURE PROOF BUILDING CONCEPT

An innovative building concept is currently under construction in the Anderlecht industrial estate. The leading Belgian automotive distributor, D'Ieteren, is having the Mobilis building constructed in such a way that it can be used not only for commercial purposes, but also for a wide range of future-oriented activities.

To this end, the floors +2 and +4 of the 4-story building is constructed using the waffle concrete slab technique while the floors +1 and +3 will consist of lighter steel structures. These will be suspended by tie rods to the floors above. The run of the concrete slabs of floor +2 and +4 can be accommodated by a specially developed adjustment system, so that the spaces provide a sociable infrastructure and can be adapted to changing activities.

Each floor is to be 7 metres high and can be fitted with intermediate ceilings if this height proves superfluous for future use. To make the Mobilis project fully future-proof, D'Ieteren is also using climate- and energy-neutral construction methods.

> ### SCAFFOLDING CHALLENGE
> ASSEMBLY AND DISMANTLING OF 130.000 M³ SUPPORT STRUCTURE IN 200 WORKING DAYS

Alheembouw was awarded the contract to construct the Mobilis building for D'Ieteren. They chose to work with Scafom-rux subsidiary SAFE to supply the required support and shoring systems. SAFE is a specialist in construction props and supported Alheembouw with both the complete engineering of the project and the timely delivery of the large quantity of scaffolding material required.

For the waffle slab construction of floors +2 and +4, large quantities of concrete had to be poured directly on site, each in sections of 16 by 16 metres. To make this possible, 130,000 m³ of scaffolding was required to support the concrete floors at heights of up to 20 metres during the construction phase.

In addition, more than 11,000 m² of cover formwork had to be installed. The team of SAFE had to complete both the assembly and dismantling of all shoring and cover formwork within 200 work days.

> ### SCAFFOLDING SOLUTION
> WORKING ON TWO LEVELS AT THE SAME TIME

Scafom-rux's RINGSCAFF modular scaffolding system proved to be the ideal shoring solution, not only because it can be assembled and dismantled extremely quickly, but also because it's various standard lenghts make it very versatile.

To save valuable time and material, the outriggers were configured so that all the loads from the waffle slab on the +4 level were transferred directly to the beams on the +2 level. This allowed Alheembouw to work on both levels at the same time.
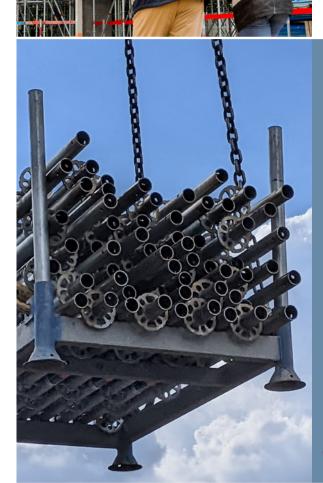

Also watch our project video by scanning the QR Code.

Project video

> ### OUTLOOK

Pieter van den Berghe, Industry Director at Alheembouw, is satisfied with the way the project went: „Especially the span has been challenging to implement, because it was all poured on site. [...] Right from the beginning we held meetings with SAFE, who were able to provide us with a temporary support structure for constructing the waffle slabs. They directly informed us of their concrete plans and a corresponding quotation. We immediately realised that we could form an excellent partnership for completing this project." Twan van Vegchel, Senior Project Manager at SAFE, also praises the cooperation of all partners as key to the success of the Mobilis project: "The aim is to come up with a successful solution where all parties are satisfied, so we can all look back and say 'We've done an excellent job!' We're stronger together. I believe this is very important in today's world." The construction of the Mobilis car salon is scheduled to be completed in 2023.

ABOUT SAFE

SAFE is a reliable partner for temporary construction props and shoring systems. Our portfolio includes engineering services as well as the rental and sale of high-quality scaffolding material. As an independent subsidiary of the Scafom-rux Group, SAFE is part of the global network of one of the leading scaffolding and shoring providers.

Offering the most comprehensive portfolio in scaffolding systems, scaffolding accessories, shoring as well as props, Scafom-rux is the first choice for customers who value a reliable and trusted partner with a strong local presence in more than 20 countries and excellent customer service across 5 continents.

STRONGER. **TOGETHER.**

RINGSCAFF FACTS

Scafom-rux modular scaffolding system RINGSCAFF is one of the most recognised scaffolding systems worldwide. RINGSCAFF is extraordinary versatile and exceptionally stable - a fact that has been audited and certified by several experts and institutions.

- Fast and easy assembly and dismantling thanks to Ringlock connection method
- Extremely durable with a load bearing capacity of up to 6.0kN/m^2
- Can be used as a modular scaffolding system and/or shoring system
- Very easy to stack, reduced handling and transport costs and few loose components
- Certified compatibility with other leading modular scaffolding systems

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