

FormworkPress

Professional Formwork News

V/2026



Large-format exposed concrete

Convincing first use for Mammut XT 500/250 – p. 10

Contents

Editorial	3
News	
Customer satisfaction survey; new cultural centre	4
Focus on Portugal; great interest shown in Belgrade	5
MEVA Infrastructure Europe – a team of experts	6
Flood relief tunnel still on schedule	8
Cover story	
First-time use of Mammut XT 500/250 in Luxembourg	10
Interview with SOLID’s Senior Site Manager	12
New XT size pays off	13
Fully automatic formwork planning using BIM ² form	14
Successful debut in Georgia	16
50 cm slab swiftly poured using MevaFlex	18
Construction of a high-rise building in Switzerland	20

Imprint

Site photos show situations which do not always depict the final assembly of formwork with regard to safety regulations. Imprint: Edition V/2026. Publisher: MEVA Schalungs-Systeme GmbH, Industriestr. 5, D-72221 Haiterbach. Layout: MEVA. Reprint and re-use of any editorial content only by copyright permission. We accept no liability for the content of external internet sites, nor for a violation of privacy or any other law arising from these.

“At MEVA not everything is new in May – but quite a few things are, and these provide our customers with economic benefits and offer them fresh approaches for the successful execution of their projects.”



Florian F. Dinger,
Owner and Managing Director
of MEVA Schalungs-Systeme GmbH

Dear Readers,

The month of May makes everything new, as an old German proverb says. When nature awakens in spring, you forget the long winter. At MEVA not everything is new in May – but quite a few things are, and these provide our customers with economic benefits and offer them fresh approaches for the successful execution of their projects. In this issue of FormworkPress we report on a number of premières.

For example, our company is expanding the scope of its operations to cover new regions. The joint venture between MEVA and Rouceiro in Portugal and our regional sales organisations in the Balkan countries of Slovenia, Croatia, Serbia, Bosnia and Herzegovina, Montenegro, Kosovo, Albania and North Macedonia will provide us with additional impetus. At the international construction fair in Belgrade, numerous construction experts were interested in smart formwork solutions from MEVA.

Somewhat further to the east, MEVA formwork was used for the first time in Georgia. The construction company Omnia enthused about MevaDec and the time saved through its simple and effortless use during the construction of a ten-storey multi-family house in the capital Tbilisi. That’s why the formwork is going to be used straight afterwards for further construction projects in the Caucasus (page 14).

Also new is the extended BIM²form version for fully automated digital formwork planning that enables the user to prepare projects faster and with even greater precision (page 16). The ability to check material availability and its utilization rate is a major benefit.

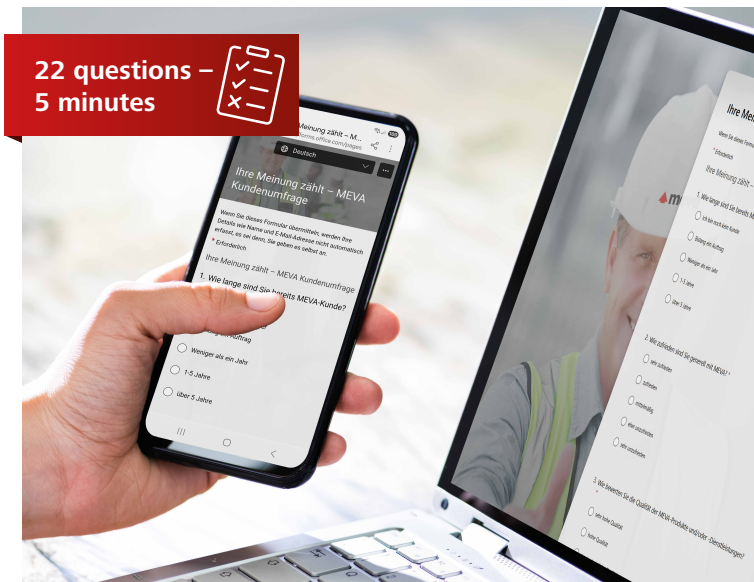
We have supplemented our popular wall formwork system Mammut XT with the 500/250 panel. These large-format formwork panels were used for the first time by the Luxembourg-based construction company SOLID. During an interview, their senior site manager expressed his enthusiasm for the speed achieved while building a sports hall and a school as well as for the quality of the concrete. Read all about this on pages 10–13.

However, that is not the end of the list of innovations. We also present our team of experts from MEVA Infrastructure Europe (page 6), which acts as a partner for construction companies to help them master even complex and comprehensive projects such as the construction of tunnels, bridges or flood protection infrastructure.

I wish you an inspiring read.



News



Let us know what you think

For 55 years now, MEVA has stood for reliable formwork technology, teamwork based on partnership and a firm commitment to quality. The trust placed in us by our customers is both an incentive and an obligation. To enable us to continue developing our products and our services in a targeted manner in future, we would like to involve our customers and partners more actively in the process by means of a simple online questionnaire.

You thus have the opportunity to appraise different aspects of our mutual teamwork ranging from the quality of our products and the reliability of our services to your experiences with your contact persons at MEVA.

All information provided will, of course, be treated confidentially and used for the sole purpose of improving our offering. We cordially invite you to participate and, together with us, to actively contribute to shaping MEVA's future in any of these three ways:

- Online questionnaire (click on the red button)
- E-mail to infomanagement@meva.net
- Talk to your contact at MEVA

Cultural centre in Columbia

In Columbia in the US state of South Carolina a superlative cultural project is being executed. Toby's Dinner Theatre is being replaced by an architecturally independent structure with numerous curved walls – the New Cultural Center, a modern theatre complex. The construction company Belfast Valley Contractors is carrying out the project using, among other systems, the MEVA circular formwork MAR, support frames and brace brackets.

The centre will serve as a lively cultural meeting place for artistic encounters. Located all round a multi-storey lobby, the theatre complex will feature two black box theatres, dance and art studios, a dinner theatre with 350 seats and a circular stage, a gallery and a café, play areas and classrooms for theatre, singing lessons and more besides.

The third to seventh floors are reserved for 174 art-inspired residential units. These have been so well designed that they hide the parking spaces and at the same time enclose three green terraces with views over the Symphony Woods Park and the Merriweather Post Pavilion outdoor concert venue.



Focus on Portugal

MEVA is also focusing on the far west of Europe. Florian F. Dinger, MEVA's owner and managing director, and Patrick Celeiro Rouceiro (on the right), the owner of the Portuguese company Rouceiro, sealed a joint venture between the two companies at MEVA's headquarters in Haiterbach just a few weeks ago.

A four-member delegation from Rouceiro spent several days in Haiterbach and enjoyed intensive product training and strategic discussions. The joint venture will support the prospering Portuguese construction industry, primarily through the wall formwork systems AluStar and StarTec as well as the slab formwork MevaDec.



Great interest shown in Belgrade

MEVA was present at a trade fair in Serbia for the first time from April 21-24. At SEEBBE, the South-East Europe Belgrade Building Expo in the capital Belgrade, MEVA experts presented, among other products, the MevaDec slab formwork and the crane-independent, lightweight AluFix wall formwork.

Furthermore, visitors to the booth were able to convince themselves from close up that reconditioned used formwork of the established and robust Mammut and StarTec wall formwork systems is of such good quality that they will enable their owner to reliably master challenging projects for many years at an economically interesting price.

"Construction companies in Serbia are also increasingly struggling with increasing labour costs and the difficult search for staff. That is why formwork systems are in demand that are easy to handle and can be used flexibly," reports Amir Kadrija, MEVA's head of sales in the Balkans, who was delighted with the great interest shown in Belgrade.

Focus on civil engineering

Experienced team of experts supports the execution of infrastructure projects

Formwork manufacturer MEVA is meeting the high demand for the construction of new and the renovation of existing infrastructure with a new department. MEVA Infrastructure Europe's specialists are now helping construction companies to successfully execute their projects.

The team of experts led by Dirk Kolter was carefully selected. The engineers, formwork professionals and sales specialists are very familiar with the special requirements in infrastructure construction thanks to their extensive experience and through innumerable successfully executed projects. Whether it's infrastructure for transport systems (tunnels, bridges, railway stations), public utilities (power stations, dams, sluices, wastewater treatment plants) or flood protection, MEVA can boast of countless references from around the world.

Complete portfolio from a single source

From the headquarters in Haiterbach in Germany, MEVA Infrastructure Europe caters to the markets in Germany and other countries. The project business in foreign markets is handled quickly and efficiently by subsidiaries thanks to flexible interfaces.

A broad range of products and services enables us to provide bespoke support to construction companies or consortia. "We possess a complete portfolio and deliver from a single source," reports head of department Dirk Kolter. "With our MEKit, we are well positioned. This modular construction kit can be used in numerous applications. A new addition is also our timber beam formwork system for pillars and abutments in the infrastructure sector."

Departments and subsidiaries intermeshed

The basis of MEVA Infrastructure Europe's success is the close interplay between sales and engineering in conjunction with a continuous exchange

Typical fields of application for MEVA Infrastructure Europe, below, from the left: flood protection measures (flood relief tunnel between Sihl and Lake Zürich in Switzerland), tunnel construction (noise protection tunnel on the A81 motorway near Böblingen in Germany) and, next page, the Fehmarnbelt Tunnel in Denmark, bridge construction (M6 motorway in Hungary).



of information with the heads of the subsidiaries and the individual countries and the application engineering, structural engineering and special design departments. Dirk Kolter: "Our department concentrates solely on civil engineering projects. In general, this sector requires a lot of special formwork. Each building is unique, the planning work is extensive and higher demands are placed on structural engineering."

With the clever combination of standard formwork and special panels, MEVA ensures that economical framework conditions are reliably adhered to.

Sights set on all Europe

MEVA's team of infrastructure experts has started working and is already supporting several projects in the German market. We have also set our sights on Austria, Hungary, Switzerland and Scandinavia, all of which are traditional MEVA markets.



Dirk Kolter, civil engineering specialist and head of the team of experts in MEVA Infrastructure Europe



Flood relief tunnel still on schedule

Flood protection for Zurich taking shape

In the last issue of FormworkPress (XII-25) we reported on the construction of the flood relief tunnel between the Sihl Valley and Lake Zurich being built by a consortium made up of Marti AG, Bauunternehmung and Marti Tunnel AG. Using wall and circular formwork (Mammut 350, Radius), climbing technology (HC JumpForm), support solutions (STB 450, Triplex), folding working platforms and special designs from MEVA, the project has progressed rapidly and according to plan. In the meantime, the construction work on the imposing structure has made further visible progress.

“We made the most of the good weather and managed to complete the concreting work about a month earlier than planned,” reports Marti con-

struction manager Manuel Rohr. Over the course of the winter months, the flood relief tunnel’s inlet structure was completed and a plant building built on top of it.

Part of the structure to be hidden

In the meantime, the entire structure for the diversion of flood water from the Sihl river has been completely roofed over. The concrete roof will now be landscaped. Thus, after completion of the infrastructure to protect Zurich from flooding, only the sloping baffle wall and the plant building will be visible in this beautiful countryside.

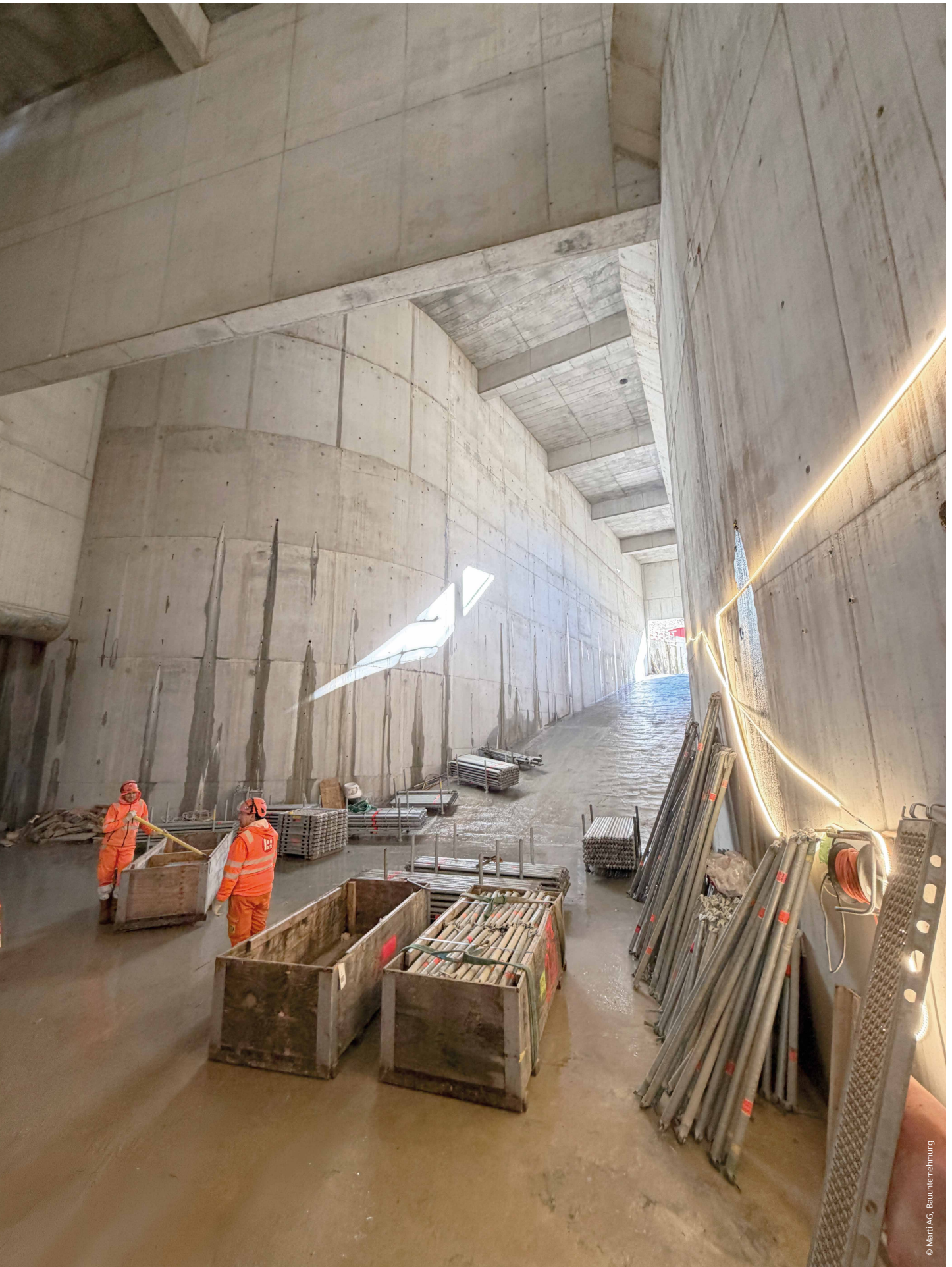
Next page: The inlet structure of the flood relief tunnel has been completed and is now ready to take up water from the Sihl River and allow it run off into Lake Zurich.

The inlet structure has been roofed over. Once landscaped, only the sloping baffle wall (on the right) and the plant building (on the left) above the inlet structure will be visible.



i Project data

- **Project**
 - Flood relief tunnel between the Sihl Valley and Lake Zurich, Langnau am Albis / Thalwil, Switzerland
- **Principal**
 - Canton Zurich Building Department, Office of Waste, Water, Energy and Air
- **Contractor**
 - ARGE Marti Entlastungsstellen: Marti AG Bauunternehmung, Zurich, and Marti Tunnel AG
 - www.marti-zuerich.ch
- **MEVA systems**
 - Mammut 350 wall formwork
 - Radius circular formwork
 - HC JumpForm climbing formwork
 - KAB folding working platform
 - Special design
 - STB 450 support frame
 - Triplex SB heavy-duty props
- **Engineering and support**
 - MEVA Schalungs-Systeme AG, Seon, Switzerland; MEVA Schalungs-Systeme GmbH, Haiterbach, Germany





Even faster with Mammut XT 500/250

MEVA's new large-area wall formwork is impressive



The Luxembourg-based construction company **SOLID S.A.** has been relying on MEVA formwork since it was founded in 2003. While constructing a school, it has been using the new Mammut XT 500/250 large-size wall formwork panels for the first time – and is very impressed.

There's a lot of hustle and bustle on Bur Campus in Rosport-Mompach municipality. Week after week, significant progress can be seen in the construction work with the new sports hall and school building visibly growing bigger and bigger. "Everything is going according to plan," Simon Pint is happy to report. The senior site manager has extensive experience in projects of this scale and his company possesses a corresponding portfolio of its own material.

Top and left: The SOLID project in Luxembourg is progressing according to plan and being completely executed using the construction company's own material.

Top right: Two 500/250 panels were assembled next to each other and positioned using a crane. Bottom left: The large-size panel enables walls up to 5 m to be poured with no height extension.

For the new buildings near the Sûre River, MEVA's wall formwork systems Mammut XT and Mammut 350, BKB folding access platforms, LAB transport spreaders, safety meshes and Triplex heavy-duty props are being deployed. The slabs are all being formed using MevaDec in conjunction with the time- and material-saving drop-head-beam-panel method (FTE), and the modular MT 60 shoring tower serves to support the construction of overhanging slabs.

The construction team formed the sport hall's nearly 11 m high walls using tried-and-tested material: three 3.50 m Mammut XT panels and one 0.25 m panel, one on top of each other. Each wall was quickly poured in a single cycle. In some areas of the project the robust Mammut 350 and Mammut XT systems were combined, both of which can withstand a fresh-concrete pressure of 100 kN/m² over the entire surface.

SOLID works entirely with its own material and recently purchased Mammut XT large-size 500/250 panels. The top management and the construction managers were particularly keen to assess the panels' performance when used for the first time. The product's properties mean that the new wall formwork promises rapid construction progress. Developed for the construction of high walls, Mammut XT allows a rapid choice between single- and two-sided tying because the XT tie holes are fully integrated into the frame.

The panel with a forming area of 12.5 m² and only eight tie holes can be placed with a minimum of installation and logistics work. Flange nuts, plastic tubes and tools are just as superfluous as the assembly of scaffolds on the initial-formwork side. SOLID lifted the initial formwork onto the slab formwork by crane and supported it from the inside. After installing the rebars and while closing the formwork, the heavy-duty props were removed one at a time and the final formwork was tied from one side. The wall formwork thus served as fall protection for the personnel.

In some sections, two 500/250 panels were installed next to each other – placed horizontally on the ground and with only a few assembly locks. Using heavy-duty crane hooks, the 5x5 m units were then dragged to their places of use. The required architectural concrete quality Q1, which corresponds to the German quality SB3, was achieved using the alkus all-plastic facing fitted as standard in all MEVA formwork systems. The new panel dimensions and the symmetrically offset tie holes produce a uniform tie hole and joint pattern.



© Thomas Urbany



© Thomas Urbany

Interview

SOLID's senior site manager Simon Pint

What made the large-size Mammut XT panel interesting for SOLID?

Our company builds a large number of commercial buildings, halls, schools and kindergartens with wall heights above 4 m – for example, the ground floor of the new school building on the Bur Campus with a height of almost 5 m. Walls this high have a big drawback – in general, you have no choice but to extend the height of the formwork. The new 500/250 panel was just what we needed, as it is ideally suited to our requirements.

Is it the size that makes all the difference?

Not only that. Here in Luxembourg, architectural concrete surfaces are predominantly or even completely specified for a great many large buildings. As all MEVA formwork systems are delivered with alkus all-plastic facings as standard, we are also well positioned in this respect.

What was your first practical experience like?

Very good. Our employees are delighted with the rapid construction progress and our customer is pleased with the homogeneous quality of the concrete surfaces.

Rapid construction progress is a decisive factor for economical construction. How does Mammut XT 500/250 support this factor?

As we no longer needed to install additional panels to increase the height of the formwork for the

school building's walls, our employees had less work, didn't need to install and remove alignment rails or other parts and, on the whole, had less to worry about: Place the formwork panel, brace it and off you go. Thanks to the high permissible fresh-concrete pressure, we were able to pour the walls in a single cycle, almost irrespective of the rate of placing.

Did you discover any disadvantages?

None at all. Of course, formwork of this size is too cumbersome to be used in the construction of a small house. However, no one in their right mind would come up with that idea.

On this construction site you only use formwork from your own stock. Does your company need a large warehouse for this?

SOLID's philosophy is to be independent and flexible at all times by using only our own material. Our MEVA formwork is almost constantly in use and wanders directly from one construction site to the next. As all our teams want to work with it, it is rarely stored.



Senior site manager Simon Pint.



New XT size pays off

Cost-effective thanks to alkus facing and a minimum of assembly work

Cost-effectiveness through quick work processes and clever ideas: these factors enable formwork systems to significantly contribute to the success of construction companies. Mammut XT 500/250 distinguishes itself through numerous product features.

Long-term savings with alkus

The alkus all-plastic facing makes a valuable contribution to the panel's long-term economic viability and may even last the panel's entire service life. Designed for a service life of more than 1,500 applications without loss of quality, it can be repaired using the same material and with a minimum of effort on the construction site. The alkus facing saves dozens of time-consuming and expensive replacements as well as the disposal of plywood facings. Furthermore, thanks to the 7-year warranty on function and surface, owners enjoy long-term economic planning security. The sustainable alkus is fitted to MEVA formwork systems as standard.

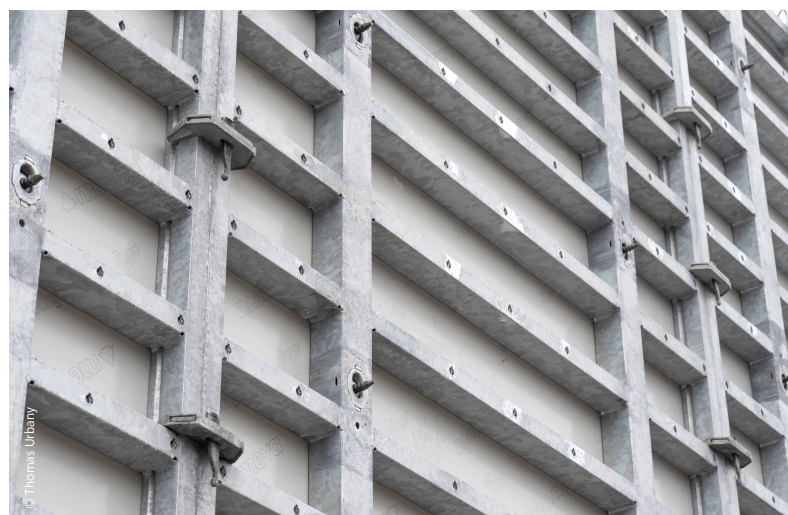
Leaving out work processes when installing and stripping formwork speeds up the construction work. Only eight tie rods are required to fix the 12.5 m² Mammut XT 500/250 in place, and that optionally from only one side. It is thus not necessary to erect a scaffold on the initial-formwork side. This results in less work, less material stored on-site and a greater level of safety on the construction site. Generally speaking, just a few MEVA assembly locks suffice to connect several panels, which also pays off in the form of quick work processes. The high load-bearing capacity – permissible fresh-concrete pressure (in accordance with DIN 18218) over the entire surface of 100 kN/m² (DIN 18202, Table 3, line 7) – and the wide range of applications for storeys up to a height of 5 metres or (for horizontal panels) 2.5 metres without height extension are veritable project accelerators that make the investment worthwhile every single day.

The proven benefits of Mammut XT such as the multi-function profile with welded-in Dywidag nuts for the attachment of accessories using the MEVA flange screw, the fully integrated combination tie holes in the frame for simple selection between single- and two-sided tying and bump notches for

simple alignment and adjustment using the crow-bar, are, needless to say, also included in the new large-size panel.

Quality pays off

An economic factor that should not be underestimated is the principal's level of satisfaction. The aim is to minimise the risk of complaint and the amount of follow-up work. Mammut XT, which is fully compatible with the established Mammut 350 system, fulfils demanding architectural requirements on large architectural concrete surfaces with few objectionable joints and tie holes. Last but not least, the high quality of the formwork with its closed, hot-dip galvanised steel profile pays off – durable, robust and torsionally rigid. The reduced concrete adhesion results in efficient cleaning with only a few resources.



Photos on the right from the top: The alkus all-plastic facing is a decisive factor for the long-term economic viability of the MEVA formwork systems. Only a few assembly locks and tie rods are required to form large areas. The single-sided tying reduces the workload further and increases safety levels.

Time-saving precision

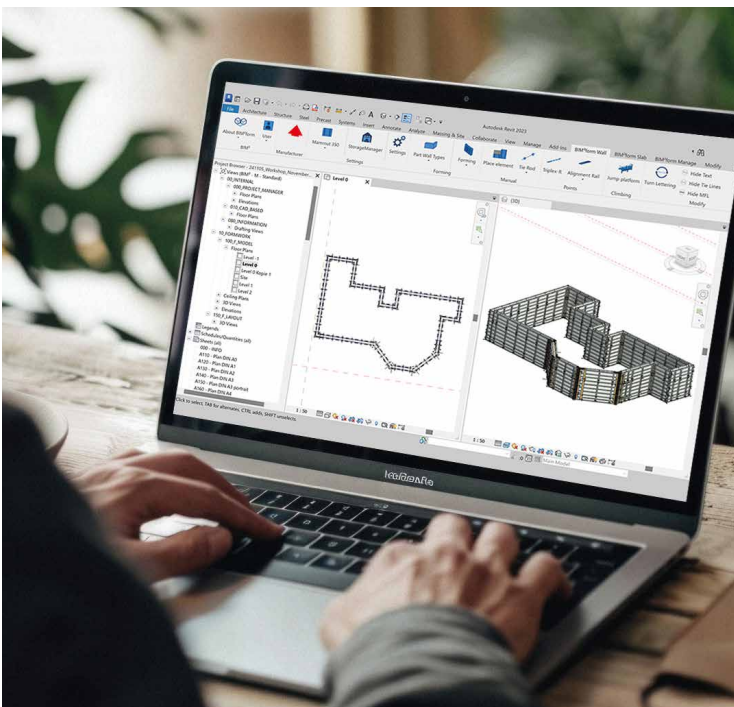
MEVA is the first manufacturer with fully automatic formwork planning via BIM²form

The successful execution of a construction project starts with well-thought-out planning. Automated digital formwork planning makes time-consuming and error-prone manual processes appear antiquated. With BIM²form, MEVA is the first manufacturer to offer a fully automated solution and thus clear economic benefits.

Formwork tasks are often complex and can potentially reduce the time required for a project. On construction sites this is achieved using clever formwork systems – and beforehand through intelligent digital formwork planning. BIM² GmbH has been cultivating a strong partnership with MEVA for many years now, supporting their Engineers and many more customers worldwide with BIM²form, i.e. “BIM to form”, an add-in for Autodesk Revit.

This tool for digital formwork planning enables completely automated planning processes with just a few mouse clicks and the incorporation of the formwork in an end-to-end BIM workflow. From the first estimate of the material requirements to the final detailed planning, BIM²form offers a reliable technical basis. MEVA is the first formwork manufacturer to offer the new level of automation in BIM²form for its formwork systems.

Using BIM²form, only a few clicks are required to create a complete formwork plan.



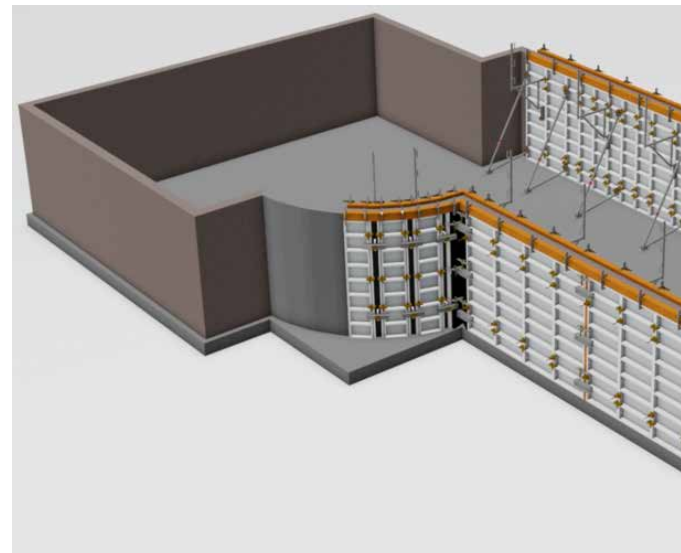
Clear economic benefits

BIM²form is based on the approach taken by experienced formwork planners and delivers immediate and measurable economic value across the entire formwork planning process. By leveraging intelligent commands with varying levels of automation and model-based workflows, both project preparation and execution are significantly accelerated. In standard scenarios by at least 20%.

Instead of time-consuming manual planning, engineers and project teams can generate complete, system-compatible formwork plans in just a few minutes. From formwork placement across all cycles to detailed placement of single components – BIM²form offers automation that grows with the project. Standard projects benefit from a high automation level, while complex geometries still allow simple but precise placement of single components any time.

This results in a substantial increase in productivity across the challenges of each project phase.

- **Faster planning cycles and reduced iteration time**
- **More efficient use of resources through optimized material allocation**
- **More project capacity due to reduced preparation time**



In combination, these advantages translate directly into lower overall project costs, higher margins, and improved competitiveness.

Checking material availability

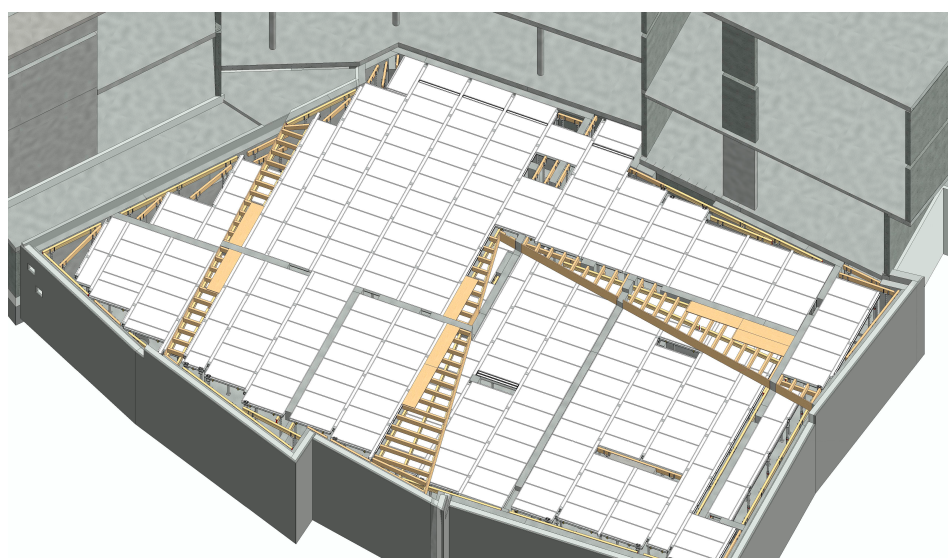
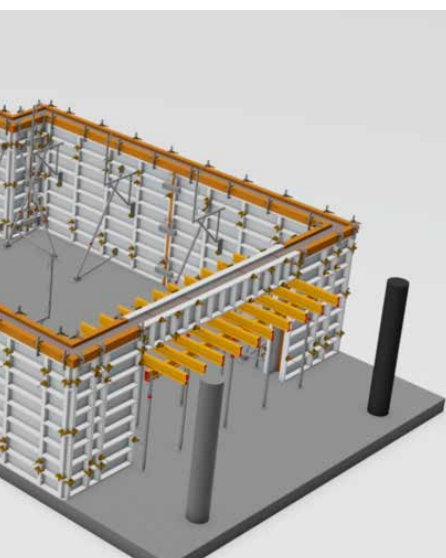
Another significant advantage are the innovative features newly implemented that enable the user to check material availability and its utilization rate. BIM²form introduces powerful capabilities to check the material utilisation on stock. The current plan is continuously checked against available stock or rental yard capacity, with potential bottlenecks becoming visible immediately by automatically highlighting critical items based on individual phases or peak demand. At the same time, the assessment of rental items automatically detects blocked, non-approved, or discontinued items when loading a project and flagged instantly, guiding engineers to approved alternatives early on. BIM²form delivers full transparency over material requirements, including maximum demand across the entire construction process. Flexible export options allow material data to become a solid basis for evaluations to support decision-making. Altogether, these powerful features reduce re-planning loops, and ensure that planning remains realistic, feasible, and deliverable – long before logistics or construction are impacted.

10 Benefits of the new BIM²form version

- Fully automated formwork planning with MEVA systems in just a few clicks
- Complete, system-true plans generated in minutes for 30-60% faster calculations
- At least 20% faster project preparation and execution
- Faster planning cycles with reduced rework and iteration time
- High automation for standard projects, precision for complex geometries
- Up to 70% fewer errors through intelligent connection logic
- Up to 15% more efficient material use through smarter resource allocation
- Early bottleneck detection for more realistic, feasible planning
- Consistent, reproducible planning quality for greater efficiency, lower costs, and improved competitiveness
- Strong performance in powerful BIM capable 3D environment

Recognising critical points at an early stage

Melanie Krug, head of engineering at MEVA, is convinced by BIM²form: “The changeover to BIM²form was an important step for MEVA that enables us to further develop our planning processes. The close cooperation with the BIM² team helped us in a targeted manner. Through the precise 3D planning, we can spot critical points at an early stage, avoid unnecessary loops during the project and thus increase the efficiency of our work.”



Successful debut in Georgia

OMNIA building a residential building in Tbilisi using MEVA formwork

MEVA is expanding its sales area and is now also present in the Caucasus at the interface between Europe and Asia. ICES, a Georgian construction company that belongs to the OMNIA Group, specialises in the execution of challenging residential development projects to high standards and is currently building nine multi-family residential buildings in the capital Tbilisi.

The OMNIA ISANI residential complex in the up-and-coming district of Isani, close to the Kura River, includes the 10-storey residential building B15. Three formwork systems and bespoke services provided by MEVA – formwork planning, staff training in Germany and on-the-spot construction support – are contributing to the successful execution of the project. This is the first cooperation between the experienced construction team and MEVA.

Effortless and quick working practices

The 3.3 m high walls of each storey are being built using the lightweight hand-set formwork AluFix. The system's low weight means expensive crane time is being reduced to a minimum on the con-

struction site. The building's columns are also being built with this versatile formwork system.

MevaDec, which combines three forming methods in one system with identical parts and connections, is being used for the slabs of the ten storeys in Block B15. Depending on the requirements, the personnel can switch between the individual methods easily, quickly and with little need for training. "Thanks to the effortless installation and stripping of the MevaDec system, our team is able to work more quickly and safely," reports the Georgian company.

The lightweight aluminium MonoFix system, which can be integrated into the MevaDec formwork and thus enables seamless and rapid assembly, is being used for the concrete beams.

High-quality surfaces using alkus

Like the AluFix wall formwork, MevaDec is equipped with the durable and easily repaired alkus all-plastic facing, which provides for high-quality concrete surfaces. In conjunction with the form-

i

Project data

- **Project**
 - Multi-family residential buildings OMNIA ISANI, Tbilisi, Georgia
- **Contractor**
 - ICES, a member of the OMNIA Group, Tbilisi, Georgia
- **MEVA systems**
 - AluFix wall and column formwork
 - MevaDec slab formwork
 - MonoFix monolithic formwork
 - EuMax props
- **Engineering and support**
 - MEVA Schalungs-Systeme GmbH, Haiterbach, Germany



work's powder-coated, closed aluminium section, concrete adhesion is reduced and cleaning simplified.

Significantly shorter construction time

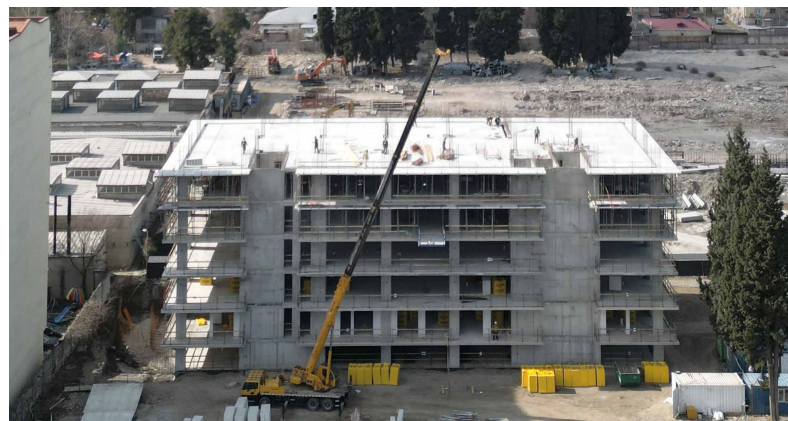
In the course of this project, the easy-to-use formwork systems from MEVA are ensuring rapid construction progress, just as OMNIA had hoped. "The MEVA formwork systems set themselves apart from other standard aluminium systems because they reduce the construction time by 30-50%." Furthermore, the construction team was impressed by the consistently high quality of the concrete surfaces.

As a result of this positive experience, OMNIA is going to use the entire formwork employed in Block B15 for the construction of the new buildings B12 and B14 in order to achieve the same quality and construction speed – without additional consumables such as plywood or constructional timber.

Top right: After just a few months, six of the building shell's storeys had been completed. The OMNIA team is satisfied with the rapid progress of the construction work.

Centre right: "Using MevaDec, the team works more quickly and safely," reports OMNIA.

Below: The quality of the concrete used for the balconies and slabs is impressive.



50 cm slab swiftly poured

Späth Bau using MevaFlex to build a data centre

In south-west Germany between the Upper Rhine and the Black Forest, Späth Bau, a tradition-rich construction company founded almost 120 years ago and based in Endingen am Kaiserstuhl, is known as a reliable partner for building construction and civil engineering. In Lahr in the German region of Baden on the grounds of the Airport & Business Park directly next to the airfield and close to the French border, a Späth team led by foreman Yannick Haid is building a new data centre that will contribute to the expansion of the fibre-optic infrastructure and safeguard the basic IT services in central Baden.

Slab thickness up to 50 cm

Upon completion, the building covering an area of 1,530m² will be the largest data centre between Karlsruhe in northern Baden and Basel in Switzerland and will run entirely on green electricity. A special feature of the building is that it will have a roof up to 50cm thick which, will support a photovoltaic installation designed for resource-conserving energy and cooling technology.

MevaFlex and H20 beams

Späth Bau and MEVA are working together for the first time. The formwork specialist delivered the technically and economically proven MevaFlex slab formwork that promises a high level of efficiency in

conjunction with few parts and is made up of just three components: props with forked prop heads, wooden or aluminium stringers, and the facing.

For this project in Lahr, MEVA delivered 1,070 EuMax props in the sizes 20/550 and 20/450, H20 beams and 35 shuttering panels with a total surface area of approximately 1,300 m². The EuMax props were set up easily, effortlessly and safely using scissor lifts for the slabs located at heights between 4.80 and 5.45 m. The crossbeams and stringers were then installed and the facings placed on top of these. The props were also used to support the building's freshly poured exterior and interior walls.

611 m³ of concrete in only nine hours

The peak performance on one day – in only nine hours from 4.30 am to 1.30 pm – was 611 m³ of concrete poured on the slab formwork with the help of 85 concrete mixer trucks and two truck-mounted concrete pumps. For structural reasons, the structural engineering inspector specified the use of double girders. On the western part of the building with offices and the stairwell, the slab was poured with a thickness of 30 cm and in the more extensive area for the sensitive IT equipment with 50 cm.



Managing director Christoph Späth (left) and foreman Yannick Haid: the construction specialists are satisfied with how the construction work is progressing in this project.

i

Project data

- **Project**
 - New data centre, Lahr, Germany
- **Contractor**
 - Späth Bau, Endingen am Kaiserstuhl, Germany
- **MEVA systems**
 - MevaFlex slab formwork
 - EuMax props
- **Engineering and support**
 - MEVA Schalungs-Systeme GmbH, Haiterbach, Germany

“Thanks to the proactive planning by all participants and our company’s far-sighted production planning, we are currently on schedule,” reports Yannick Haid, the Späth Bau foreman. The planning and timely delivery of material on the part of MEVA also contributed to this.

What distinguishes MevaFlex?

MevaFlex distinguishes itself, as the name suggests, through a high degree of flexibility. And not only with regard to the selection of the facing – 3S panels, alkus all-plastic facings or other alternatives. As the positioning of the beams and props is not pre-defined, this can be optimised in accordance with the slab thicknesses during the planning phase. This results in flexible application fields for varying

building layouts and slab thicknesses. Besides the props, other support options can be selected, such as MEVA’s easily assembled MT 60 and MEP shoring tower systems.

Reliable cooperation

Christoph Späth, managing director of the construction company, expressed his satisfaction: “Working with MEVA, everything went smoothly during our construction project – from the quotation and planning to handling and logistics. The teamwork was professional and reliable throughout.”



Clockwise from top left: EuMax props support freshly poured walls and the MevaFlex slab formwork. Prop heads and double girders were used under the formwork. The personnel profited from substantial freedom of movement under the slab formwork.

Successful partnership continued

Construction of a high-rise building in Basel with tried-and-tested climbing system

A modern laboratory building is being built in Basel that underpins the importance of the Swiss city as a location for innovation. ARGE Marti Bau 12 and the principal have placed their trust in a partnership that has already successfully proven its worth.

Basel's modern landmarks are the two highest office buildings in Switzerland at 205 and 178 m. They were opened in 2022 and 2015 respectively. Directly next to these free-standing towers close to the banks of the Rhine, a new, cutting-edge laboratory building is being created with a rectangular floor plan, a height of 72 m, four basement floors and 16 upper floors.

Even though the geometry of this building makes it seem less complex than the skyscrapers located just a stone's throw away, the challenges on the construction site are nevertheless identical and in fact even more difficult because of the severely restricted space available for the construction work in the angle between the towers with only a few

metres clearance to their glass façades. The schedule is ambitious, as the building shell begun in the summer of 2025 must be completed by February 2027. Furthermore, Switzerland's strict safety regulations, which were made even more stringent by the principal's own guidelines, necessitated special measures.

Never change a winning team

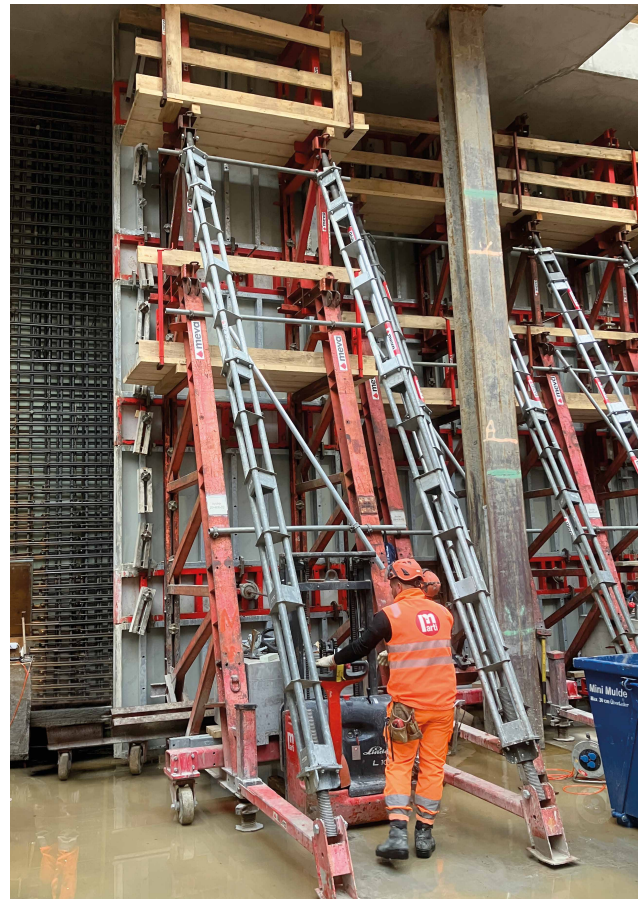
What proved reliable for the giants next door is to be employed once again to ensure the successful progress of the construction work. True to the motto "Never change a winning team", a Marti Bauunternehmung consortium led by project manager Armin Looser is again responsible for the execution. The construction specialists mainly use material from their own stock, supplemented by MEVA products provided within the scope of the MietePlus package that guarantees that the construction company enjoys economic planning reliability throughout the construction period.

... continued on page 22





Top: The two high-rise cores climb concurrently out of the 22 m deep construction pit. The façades of the adjacent high-rise buildings are visible in the background.
 Left to right below: The bird's-eye view shows a tidy construction site typical of Marti in a restricted area. The support frames were used under the bracing slab and between the steel props. They were simply moved to their point of use on castors with a pallet truck.



... continued from page 20



Project data

→ Project

- New laboratory building, Basel, Switzerland

→ Contractor

- ARGE Marti Bau 12, Basel, Switzerland

→ MEVA systems

- MAC climbing system
- Mammut 350 wall formwork
- AluStar wall formwork
- MevaDec slab formwork
- STB 450 and STB 300 plus support frames
- Triplex heavy-duty props
- MEP shoring tower
- MTT stair tower
- EuMax 450/30 props

→ Engineering and support

- MEVA Schalungs-Systeme AG, Seon, Switzerland
- MEVA Schalungs-Systeme GmbH, Haiterbach, Germany
- MEVA Competence Centre MAC, Singapore

MEVA climbing systems, wall and slab formwork, brace brackets and props, shoring towers and stair towers are being used. The difficult logistical constraints on the construction site mean that the work is being performed with a high degree of prefabrication.

Support frames on castors

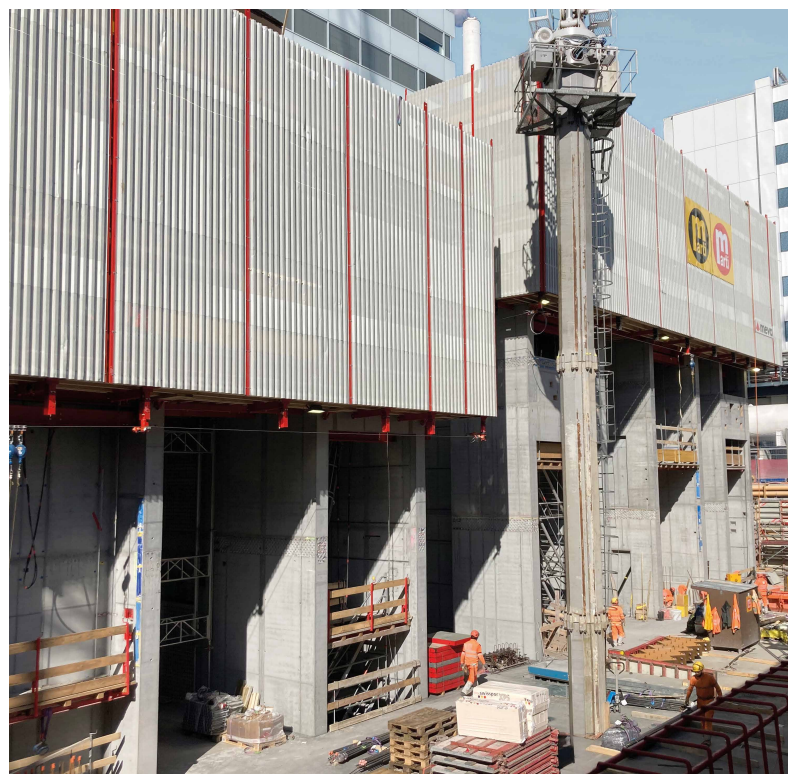
In the 22 m deep construction pit, the floor slab was poured first under the existing bracing slab, the overhang of which surrounds and supports the entire construction pit. The outer walls under the bracing slab were formed from one side against the earth wall using STB support frames and Mammut 350 wall formwork. As the support frames couldn't be moved by crane due to the overhang, they were fitted with castors and simply moved together with the formwork using a pallet truck. The compact design of the STB 450 and STB 300 plus and the flexibility of the Triplex heavy-duty props were decisive advantages, as steel props under the bracing slab further restricted the working space.

Safe thanks to MAC system

After the positive experiences with the MAC climbing system, the principal once again set great store by its use and the eschewal of working scaffolds. It was thus possible to perform the work on the slabs while the core is climbing. Rapid construction progress is also ensured without the need for crane capacity – with a high level of work safety and under comfortable conditions for the personnel on wide and unobstructed platforms behind the weather protection and privacy screens. The small-



Left: The available space was very limited in the vicinity of the overhanging bracing slab. Right: All slabs were poured using MevaDec formwork.



Above left: The MAC unit is already being assembled for the northern core on the lowest, completely concreted storey. After reaching ground level, the work makes rapid progress upwards with the construction of the uniform upper floors.

est possible gaps prevent tools or even small parts such as nails from falling off.

The two MAC units for the south and north cores each include the formwork for several stairwell, lift and utility shafts. The cores are formed using the robust industrial formwork Mammut 350 and the trailing interior walls with the easy-to-handle AluStar system.

The MAC systems were assembled after completion of the lowest basement level in the construction pit. As the geometry differs on each basement level, MEVA's planners had to plan corresponding modifications. In the vicinity of the bracing slab overhanging the pit, it was sometimes necessary to work to the nearest centimetre. On the north side the MAC was planned so that it could be equipped with railings instead of the screen. The formwork planners at MEVA's headquarters in Haiterbach, at MEVA Switzerland in Seon and the MAC specialists in Singapore did an excellent job. After reaching the ground level, the work is making rapid progress using the complete MAC and on standard storeys with unchanging geometries. The two similarly sized cores are gaining height by turns.

MevaDec slab formwork

The slabs for the individual storeys are being formed using the flexible MevaDec system, with the drop-head-beam-panel method (FTE) deployed here. This is one of three tying methods and enables early stripping, making it unnecessary to

store a lot of material on the construction site and thus saving time. The forming processes are being performed safely and economically from below. The MEP shoring tower was also used during the construction of the basement storeys, including the 8 m high basement level 3. It will again be deployed for the 15th upper storey. On the ground floor the MEP supported the edge beams and steel structures. The personnel move between the storeys via MTT stair towers. A total of 1,500 EuMax pro 450/30 props are being deployed in wide-ranging applications.

Innovation, precision and cooperation

Based on the experience already gained during the construction of the adjacent towers, the MEVA engineers immediately knew which factors would be important during the construction of Building 12. That pays off in the form of well-thought-out concepts and detailed planning. Potential problems had been identified and solved beforehand.

The construction of this building is hardly an everyday task for Volker Götz, MEVA Switzerland's experienced head of application engineering: "We are proud to be part of this project and able to contribute our expertise in a structurally and logistically challenging environment. A project of this size lives from innovation, precision and cooperation. A high degree of prefabrication, just-in-time deliveries and perfectly coordinated assembly and pouring processes are crucial for the success of this project."

You can rely on us wherever you are.

With over 40 offices on 5 continents, we are
on the spot wherever you need us.

Headquarters (Germany)

MEVA Schalungs-Systeme GmbH
Industriestrasse 5
72221 Haiterbach
Tel. +49 7456 692-01
Fax +49 7456 692-66

info@meva.net
www.meva.net

Subsidiaries/international bases

AE-Dubai	Tel. +971 4 8042200	LU-Rodange	Tel. +352 20 283747
AT-Pfaffstatten	Tel. +43 2252 20900-0	MA-Casablanca	Tel. +212 684-602243
AU-Adelaide	Tel. +61 8 82634377	MY-Perak	Tel. +60 12 5209337
BE-Landen	Tel. +32 11 717040	NL-Gouda	Tel. +31 182 570770
BH-Riffa	Tel. +973 3322 4290	NO-Oslo	Tel. +47 67 154200
CA-Toronto	Tel. +1 416 8565560	NORDIC	Tel. +45 2043 1855
CH-Seon	Tel. +41 62 7697100	PA-Panama City	Tel. +507 2372222
FR-Sarreguemes	Tel. +33 387 959938	PH-Manila	Tel. +632 7917 7370
GB-Tamworth	Tel. +44 1827 60217	QA-Doha	Tel. +974 4436 6742
HU-Budapest	Tel. +36 1 2722222	SG-Singapore	Tel. +65 6992 8000
IN-Mumbai	Tel. +91 22 27563430	US-Springfield	Tel. +1 937 3280022
LATAM	latam@meva.net		



MEVA Schalungs-Systeme GmbH

Industriestrasse 5 Tel. +49 7456 692-01
72221 Haiterbach Fax +49 7456 692-66
Germany info@meva.net

www.meva.net