References

Commercial & Residential Construction
Know-how in Architectural Concrete
MEVA is research partner in investigating the interaction between facing, release agent and concrete. The “Guide to Architectural Concrete” provides the contractor with practical know-how and expertise in managing exposed concrete construction projects successfully.

International quality standards
All MEVA locations are quality-certified following the DIN ISO 9001 standard that stands for consistent high quality in products and services all over the world.

Leading the way in concrete standards
MEVA has advanced standards for concrete pressure to take account of self-compacting and flowable concrete. A calculation technique is part of the new standard. Calculation tools for fresh concrete pressure are available on the MEVA website. A mobile app is also available.
More than just Formwork

Know-how for your building success
From the beginning, it has been MEVA’s philosophy to offer added value in the form of know-how and expertise – beyond supplying high-quality formwork. This far-reaching promise has been redeemed impressively for many years.

MEVA

MEVA: More than just formwork .................................................................................................... 2
Solutions in Commercial and Residential Construction .................................................................... 4
The architect’s facing: alkus ............................................................................................................ 6
Technology in Commercial and Residential Construction ................................................................. 8
MEVA International / Addresses and contacts ................................................................................ 26

REFERENCES

Commercial and housing
Ramada Hotel Riem, Munich, Germany .........................................................................................10
Crest Nicholson Homes, Portishead, Great Britain ........................................................................11
Loewenbraeu Centre, Zurich, Switzerland .....................................................................................12
Max Planck Institute, Goettingen, Germany ..................................................................................13

Housing and Condominiums
Mass housing project, Shah Alam, Malaysia ..................................................................................14
MyPlace condominium, Manila, Philippines ....................................................................................15
Jazz Residences, Manila, Philippines ...............................................................................................16
Germania Campus, Muenster, Germany ........................................................................................17

Industry and Trade
Storage hall, Hamriyah free trade zone, Sharjah, UAE ...................................................................18
Car manufacturer hall, Leipzig, Germany ......................................................................................19
Office and commercial complex, Luxemburg .............................................................................20
Courtyard Dern’sche Hoefe, Wiesbaden, Germany ......................................................................21
Al Tawam research centre, Al Ain, UAE, .....................................................................................22
Business centre, Investment Park, Dubai, UAE ............................................................................23

Public Service Facilities
Senior citizens’ home, Munich, Germany ......................................................................................24
Nordstadt clinic, Hanover, Germany .............................................................................................25

MEVA is acclaimed as an innovative leader in the formwork industry, underlined by several awards, distinctions and commendations for quality and service.
Safety, Cost-Effectiveness and Quality

Efficiency and cost-effectiveness, Speed and Safety
Commercial buildings, factories, offices, public facilities, residential complexes, houses, shopping malls and park houses: Commercial and residential construction is a broad construction field that is growing in importance and places more emphasis on functionality than prestige in a building sector where budgets are tight and time lines narrow. The contractor is expected to deliver a top quality and good pricing. You will value a formwork partner who has a feel and understanding for work flow and is able to come up with intelligent solutions rather than loads of inventory. That makes good sense on cramped inner-city sites where optimised and space-saving logistics are essential. And it will pay off even more when the hundredth pour works without a hitch and delivers the finish required.
Contractor Benefit through Expertise

Know-how and services
- Formwork detailing and planning
- Formwork design and application
- Support in optimising work flow and pour cycles
- Calculation of fresh concrete pressure and pour rates
- Logistic concepts and implementation

On-site support
- Assembly service and support
- Supervision and training of forming teams
- Support in supervising work flow
- Project engineers on site
- Support during critical concrete pours
The patented all-plastic facing sheet is made of polypropylene (1 and 3), reinforced by an aluminium foil (2). The facing is resistant to UV rays, shrinking, swelling, rotting, building chemicals or fungal decay. It remains stable in any climate or temperature.

**alkus:**

**The Architect’s Facing**

**The all-plastic facing puts an end to plywood waste in formwork**

The introduction of the world’s first 100% wood-free facing started a new age in formwork. Replacing worn-out plywood sheets is now a thing of the past. No more waste. Get your job done without interruptions. No more unnecessary freight costs, no down-times and no hassles in workflow. No more chemical coatings that make disposal dangerous and expensive. Less waste means fewer CO2 emissions. Besides offering better quality, the all-plastic innovation saves time and money.

Your advantages

- No swelling and shrinking
- Nailable like plywood
- No re-facing – no hidden costs
- Easy and quick to clean
- Repairable using the same material
- Better concrete finish
Exposed wall finish achieved with MEVA’s StarTec wall formwork and the all-plastic facing alkus.

1 More than 13 years of experience
All MEVA formwork systems come with the 100 % wood-free, all-plastic facing alkus. More than 13 years of practical experience are proven – on all continents and in all climates.

2 Flush assembly, no offset
The alkus facing is fitted into the frame with minimum tolerance, flush with the frame and without any offset. This minimises footprint in the concrete surface and is not possible with plywood.

3 Easy to clean
The facing is easy and quick to clean on site – using a rotation or high-pressure cleaner up to 1,000 bar.

4 Nailable like wood
The facing is as easily nailable as its plywood predecessor – fitting campher strips for instance is easy and fast.
The flexibility and versatility of the MEVA systems prove their worth particularly in commercial and residential construction projects. On large residential building sites there may be areas without crane access. Here it’s easy to switch to hand-set systems like the AluStar leaving big pours to the StarTec and its high concrete load capacity. Foundations and small walls are the areas where the hand-set, modular EcoAs sets the pace on a wide range of building parts. Large housing projects benefit from the hand-set AluFix and its high quality. Common to all is a high quality concrete finish thanks to the 100 % wood-free all-plastic facing alkus. Pouring countless columns and looking for safety and speed? The CaroFalt can be wheeled from pour to pour for speedy cycles and perfect results. And the slab formwork system MevaDec will save parts and material, reduce assembly time and speed up work flow through early stripping. The system passed the admission Swiss safety supervision board SUVA’s with flying colours. That says it all because SUVA is regarded as the strictest in the world.
Ramada Hotel Riem, Munich, Germany

Complete forming solution, 9 month schedule. Floating slabs up to 30 m.

**Project**
New hotel complex next to Munich’s expo ground. Construction schedule only 9 months for the entire shell, with complete formwork solution by MEVA. High demands on safety, engineering and scheduling. Floating concrete slab with 30 m span.

**Contractor**
Baresel GmbH, Munich office

**MEVA Systems**
- Wall formwork EcoAs
- Wall formwork Mammut 350 with alkus all-plastic facing
- Circular formwork Arcus
- Column formwork CaroFalt
- Circular column formwork Circo
- Shoring system MEP
- Slab formwork MevaFlex
- Working scaffold KAB 190

**Formwork engineering**
MEVA Schalungs-Systeme, Munich
EcoAs, Mammut 350, FormSet
Commercial and Housing

Crest Nicholson Homes, Portishead, Great Britain

Project
Residential and commercial complex with 3 storeys and 1,600 housing units as part of Portishead’s urban renewal project.

MEVA Systems
- Wall formwork Mammut 350 with all-plastic facing alkus
- Climbing scaffold KLK 230
- Slab formwork MevaDec
- Safety equipment FormSet

Developer/Contractor
- Crest Nicholson Homes
- Capstan Contractors Ltd.

Formwork engineering
MEVA Formwork Systems, Tamworth

Climbing scaffold, wall and slab formwork as a complete solution. High safety requirements met with FormSet.
Loewenbraeu Centre, Zurich, Switzerland

Very fast slab pours. MevaDec helps to catch up 2 weeks in building schedule.

Project
Apartment and art gallery house on the premises of the former Loewenbraeu brewery.

MEVA Systems
- Slab formwork MevaDec
- Shoring tower MEP

Contractor
Steiner AG, Zurich

Formwork engineering
MEVA Schalungs-Systeme, Seon
Max Planck Institute, Goettingen, Germany

Project
New building housing the Max Planck Institute for sun system research, partly with architectural concrete demands. Complete formwork engineering solution provided by MEVA.

MEVA Systems
- Wall formwork StarTec with all-plastic facing alkus
- Wall formwork Mammut 350 with all-plastic facing alkus
- Column formwork CaroFalt
- Circular column formwork Circo
- Shoring tower MEP
- Slab formwork MevaDec
- Working scaffold KAB 190

Contractor
GP Papenburg Hochbau GmbH

Formwork engineering
MEVA Schalungs-Systeme, Dresden

Complete engineering and logistics concept. High demands on exposed concrete finish.
Mass Housing Project, Shah Alam, Malaysia

500 economic family dwellings erected in concrete using AluFix as economic solution.

Project
Mass housing project to build 500 family dwellings in Malaysia, supported by the government housing development scheme.

MEVA System
Wall formwork AluFix with all-plastic facing alkus

Contractors
- Projekt Cekap Sdn Bhd.
- Waiko International Sdn Bhd.

Formwork engineering
MEVA Formwork Systems, Singapore
MyPlace, Manila, Philippines

Project
Urban residential building project in Manila. Crane-independent formwork system AluFix fits into high-level labour, safety and quality policy of contractor Megawide.

MEVA Systems
- Wall formwork AluFix with all-plastic facing alkus
- Mammut multi-purpose panels used as column formwork

Contractor
Megawide Construction Corporation, Manila

Formwork engineering
MEVA Formwork Systems, Singapore
Jazz Residences, Manila, Philippines

Project
Large-scale condominium in Manila. Combination of MAC automatic climbing system with slab formwork MevaDec followed by inside wall pours using hand-set formwork AluFix.

MEVA Systems
- MEVA automatic climbing MAC
- Slab formwork MevaDec
- Wall formwork AluFix

Contractor
Megawide Construction Corporation, Makati

Formwork engineering
MEVA Formwork Systems, Singapore

Automatic climbing MAC, slab formwork MevaDec followed by inside wall pours with AluFix (fast tracking).
Germania Campus, Muenster, Germany

Logistics and complete formwork solution for walls, slabs and columns.

Project
Urban rebuilding project in the CBD on the premises of the former Germania brewery. Residential and commercial buildings.

MEVA Systems
- Wall formwork Mammut 350 with all-plastic facing alkus
- Shoring system MEP
- Slab formwork MevaDec

Contractor
Heijmans Oevermann GmbH, Muenster

Formwork engineering
MEVA Schalungs-Systeme, Rhein-Ruhr
Storage Hall, Hamriyah Free Trade Zone, Sharjah, UAE

Project
Construction of an industrial storage hall in the free trade zone of Sharjah.

MEVA System
Column formwork CaroFalt

Contractor
Al Jawal Contracting Company, Sharjah

Formwork engineering
MEVA KHK, Dubai

Tight schedule for erecting 128 rectangular columns with high quality concrete finish.
Project
Logistics hall for automobile manufacturer with wall, 22 m high and 48 m long.

MEVA Solution
Four shoring towers Space, each 18 m high, with triplex push-pull props to take up forming and pouring load. The shoring towers functioned as a combined access and working platform for all concrete works.

Contractor
Klebl GmbH, Neumarkt

Formwork engineering
MEVA Schalungs-Systeme, Munich
Office and Commercial Complex, Luxemburg

Logistics and all-in-one formwork solution.
High safety standards.
Fast slab pours with MEP lift trolley.

Project
Construction of an 8-storey office and shop complex using formwork solution for walls, slabs and columns.

MEVA Systems
- Column formwork CaroFalt
- Slab formwork MevaDec
- Shoring tower MEP with lift trolley
- Wall formwork AluStar/StarTec

Contractor
Constantini AG

Formwork engineering
MEVA Schalungs-Systeme, Rheinland-Saar-Lux, Germany
Project
Renovation and extension to historic courtyard Dern’sche Hoefe. 5,000 m² shopping space and 10,000 m² office area plus parking garage with 188 parking bays.

MEVA Systems
- Wall formwork StarTec with alkus facing
- Shoring tower MEP
- Slab formwork MevaFlex

Contractor
Baresel GmbH, Stuttgart

Formwork engineering
MEVA Schalungs-Systeme, Stuttgart

Complex rental logistics on inner-city site. Technical planning and implementation.
Al Tawam Research Centre, Al Ain, UAE

Project
Construction of a medical complex with a research centre on molecular imaging.

MEVA Systems
- Slab formwork MevaDec
- Wall formwork Mammut 350 with all-plastic facing alkus

Contractor
Al Gafly General Contractors, Abu Dhabi

Formwork engineering
MEVA KHK, Dubai
Project
Construction of a business house with offices. The support frame STB 450 was extended on top by a 1.50 m extension to support the 7 m single-sided pours with the Mammut 350.

MEVA Systems
- Support frame STB 450
- Wall formwork Mammut 350 with all-plastic facing alkus

Contractor
United Engineering and Construction Llc. Dubai

Formwork engineering
MEVA KHK

Walls up to 7 m high formed with single-sided STB 450 and Mammut 350.
Senior Citizens’ Residence, Munich, Germany

Project
Building of a senior citizens’ home for a charitable public organisation. Solid reinforced concrete roof formed with the same Mammut 350 panels used for the walls.

MEVA Systems
- Shoring system MEP
- Wall formwork Mammut 350 with all-plastic facing alkus
- Slab formwork MevaDec

Contractor
Probat Bau GmbH & Co. KG, Feldkirchen

Formwork engineering
MEVA Schalungs-Systeme, Munich

Slanted reinforced concrete roof poured using wall formwork and shoring.
**Project**
Extension and new building of Hanover’s Nordstadt clinicum. Complete formwork solution. Cantilevering slab supported by MEP shoring towers until all 3 floors on top of it had been poured and the concrete set.

**MEVA Systems**
- Wall formwork systems AluStar/StarTec with alkus all-plastic facing
- Folding working platform KAB 190
- Shoring towers MEP

**Contractor**
Ed. Zueblin AG, Direktion Nord

**Formwork engineering**
MEVA Schalungs-Systeme, Nord
MEVA in Haterbach in the Black Forest, Germany. It is the home of the MEVA group of companies with its 40 locations in around 30 countries and 10 logistics centers all over the world. The headquarters are also home to research and development, engineering, production, rental logistics, detailing and sales. Cost-effective, lean logistics, transparent work flow, cost-saving rental concepts, technical support for better concrete results: client benefit is in focus, everywhere. All the time. All over the world.

MEVA Schalungs-Systeme, Seon, Schweiz

N.V. van Haut
Kruibeke, B - België/Belgique

MEVA Formwork Systems, Mumbai, India

MEVA Schalungs-Systeme
Toronto, CDN - Canada

MEVA Bekistingssystemen
Gouda, Nederland

MEVA Sistemas de Encofrado
Bogotá, CO - Colombia

MEVA Formwork Systems
Tamworth, GB - United Kingdom

MEVA Sisteme de Cofrajă
Bucuresti, Romania

MEVA Zsalurendszerek
Budapest, H - Magyarország

VIBAU Gradevinska Tehnika
Bestovje, HR - Hrvatska

MEVA Formwork Systems
Mumbai, IND - India