



doka

The Formwork Experts.

Fair-faced concrete

Concrete in its – visibly – finest form

www.doka.com

The **concrete** expression of **individuality**

With system and project-specific formwork

A clear trend is 'surfacing' in the language of architecture, towards concepts that are as individual as they are unique. Buildings convey interesting forms of expression to both the inside and outside. Cast-in-place concrete creates extra leeway for architecture. Doka offers solutions that are exactly matched to each situation and to the requirements of each structure. Doka works with the client's planners to develop holistic solutions that address all issues, ranging from concrete technology and formwork engineering to installation and compaction. Architects need a wide degree of freedom regarding surface design elements such as grid patterns, joints and texture; Doka responds with proven, modular system and project-specific formwork.



Closer to the **goal**, a stage at a time

With Doka, active project support is a 'given'.

The aim of all Doka's preliminary services is to achieve greater efficiency by providing transparently costed and optimised formwork concepts. Stage by stage, this active project support helps you carry out every contract. Right from the Project Development Stage, Doka puts its know-how and expertise at your service, giving you the basis on which to take well-founded decisions.



► **Ongoing advice and support from a dedicated contact person**

► **Engineering**

► **myDoka**

The sooner the Doka technicians start inputting their knowledge and experience into the project, the more efficiently it can then be carried out. In each of its stages. And by staying with the project all the way until it is successfully completed, Doka builds long-term partnerships with its customers.



Concrete Construction Stage

The stage in which the formwork-engineering resources are optimally deployed with assistance from experienced Doka Formwork Experts:

- Shop drawings incl. statical calculations
- Ready-to-Use Service
- Transport logistics
- Field service (Doka Formwork Instructor, formwork pre-assembly, ...)
- myDoka – online formwork controlling



Project Close-out Stage

The stage in which the forming assignment is satisfactorily closed out with professional support and a high degree of transparency:

- Formwork dismantling
- Return of rented formwork
- Return delivery
- Cleaning and rehabilitation
- Jointly handled close-out



Success of project

With our project-specific formwork solutions and a range of service offerings that are geared to the needs of the project, we put our customers' project-success on a firm footing and build long-term partnerships.

Field service

Form-facing – to give the fair-faced concrete surface its **visual impact**

Influencing the surface texture and colour shade with formwork components.

Fair-faced concrete is concrete in its – visibly – finest form. It is also one of the biggest challenges in formwork engineering. Reliably producing concrete finishes of the desired fair-faced concrete category requires great experience in working with the right formwork equipment. If the aim is to achieve an immaculate appearance, then having the right formwork sheets is important for achieving the best concrete finishes.



◀ Boards, rough-cut

Features:

- rough, board-type surface structure with dark-coloured concrete
- lighter after several repeat uses
- very strong absorbency
- hardly any pores on the architectural surface
- knots, resin pockets, etc. cause varying absorption behaviour
- wood sugar sometimes prevents concrete hardening
- wood fibres may be left behind on the surface



◀ Boards, planed

Features:

- smooth surface with pronounced wood texture
- dark-coloured concrete – lighter after several repeat uses
- low pore formation
- knots, resin pockets, etc. cause varying absorption behaviour
- wood sugar sometimes prevents concrete hardening
- dust formation on the surface



◀ Formwork sheet 3-S0

Features:

- ply sheet (spruce) made of crosswise glue-bonded timbers
- low proneness to cracking, due to the thinner face layers
- glue-coated surface
- boilproof, alkali-proof, water and weathering-resistant glue-bonding
- slight board-type surface structure (depending on timber moisture content)
- used on wall and floor-slab formwork
- consistently high timber quality
- smooth concrete faces
- uniform concrete faces
- slightly absorbent surface
- low pore formation



◀ ProFrame panel

Features:

- 3-ply formwork sheet made of spruce
- used particularly often for constructional applications
- urea-melamine resin adhesive surface with an extra PU varnish sealant layer sanded with corundum particles on one side
- boilproof and weathering-resistant glue-bonding
- high-quality all-round TPU edge protector
- uniform concrete faces, with slight wood texture

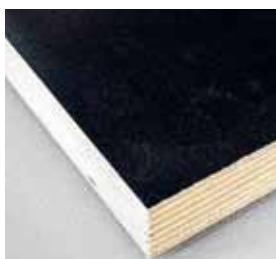




◀ Texture sheet 3-SO

Features (in addition to 3-SO 21 mm and 27 mm):

- brushed surface
- extra varnish sealant on one side
- board-like character created by recessed grooves (results in ribbed finish)
- very low absorbency
- normal pore formation
- light-coloured concrete



◀ Dokaplex formwork sheet

Features:

- crosswise glue-bonded birch plywood
- identically phenolic resin-coated on both sides
- used in wall and floor-slab formwork
- sheet for smooth fair-faced concrete surfaces
- cut edge is sealed
- low absorbency
- structureless surface
- normal pore formation
- light-coloured concrete



◀ Xlife sheet

Features:

- crosswise glue-bonded birch plywood
- force-orientated glue-bonding lines
- front (concrete-facing side) and rear covered with plastic skin
- non-absorbent surface
- sheet for smooth concrete surfaces
- high numbers of repeat uses
- screwed onto panel from rear
- normal pore formation
- light-coloured concrete
- is used in Framax Xlife, Alu-Framax Xlife, Frami Xlife and Column formwork KS Xlife
- available as loose sheets



◀ Xface sheet

Features:

- crosswise glue-bonded birch plywood
- concrete-facing side has hard-wearing synthetic resin coating; rear is phenolic-resin-coated
- non-absorbent surface
- sheet for smooth concrete finishes
- normal pore formation
- light-coloured concrete
- available as loose sheets
- screwed onto the panel from the rear
- used in timber-beam formwork, tableforms and timber-beam floor formwork



Great surfaces. **Great systems.**

A product & service spectrum that goes well below the surface.

With its modular formwork systems, Doka has the right solution for the entire spectrum of architectural requirements. Its offerings are so comprehensive because they can also score convincingly with arguments like these: high standard of safety, excellent cost-efficiency, and great ease of handling. At Doka, we don't only think in terms of large surfaces, but also look hard at the details.



◀ **Framed formwork Framax Xlife**

- frame imprints in the concrete
- form-ply screwed on from the rear
(no marks left in the concrete from form-ply fixing screws or nails)
- neat horizontal and vertical joint pattern
- tidy, fixed tie-hole pattern



◀ **Large-area formwork Top 50**

- timber-beam formwork pre-assembled on project-specific basis
- any form-facing may be chosen
- no frame imprints
- for every shape of structure
- adaptable to different formwork pressures
- unrestricted choice of form-tie and joint patterns



◀ **Wall formwork FF20**

- no frame imprints
- pre-assembled formwork elements
- pre-defined panel widths and heights
- tie-hole pattern dictated by the system; horizontally variable
- beam assemblies are possible for attaching variable form-facings



Large-area formwork Top 100 tec

- timber-beam formwork pre-assembled on project-specific basis
- choice of form-facings (e.g. for smooth fair-faced concrete, wood texture, etc.)
- no frame imprints
- minimal deflection
- small number of form-tie points
- unrestricted choice of form-tie and joint patterns (within statically permitted limits)



Wall formwork FF100 tec

- pre-assembled formwork elements with form-facing, or pre-assembled beam assemblies with unrestricted choice of form-facing
- no frame imprints
- no screw imprints
- minimal deflection
- form-tie points are centrally located in a symmetrical pattern



Doka Xtra, Dokaflex 1-2-4

- for shoring heights of up to 7.50 m
- infill zones dealt with by telescoping the beams, in the system
- no frame imprints
- easy to adapt to walls and columns
- any type of form-facing



DokaShape

- made-to-measure formwork for complex component geometries
- out-of-the-ordinary shapes can be formed easily and accurately
- uniform concrete faces with far less cracking and staining, thanks to the special coating of the formwork moulds
- cleanly shaped joints assured by the exact edge contours of the formwork elements
- less rework needed, owing to the premium surface quality



Residential

Detached home in Petrisberg

Location: Trier, Germany

Contractors: Josef Schmitz GmbH, Grosslittgen

Architects: Denzer & Poensgen, Cologne

Formwork: Large-area formwork Top 50

Form-facing: film-coated multi-ply formwork sheet

Special feature: stipulated joint and form-tie pattern



**Model housing development
in Hadersdorf, Vienna;
House n° 6 ►**

Location:

Vienna, Austria

Contractors:

Strabag AG, Vienna

Architects:

Roger Diener, Basel (CH)

Formwork:

Wall formwork FF20

Form-facing:

Texture sheet 3-S0

Special feature:

Textured formwork sheets on
FF20 formwork (screwed on
from rear), form-tie points and
suspension points for platforms
in defined grid pattern





◀ Detached home in Vienna

Location:

Vienna, Austria

Contractors:

Habau, Vienna

Architects:

Zechner & Zechner ZT, Vienna;
Architekt Monika Breu

Formwork:

Framed formwork Framax

Form-facing:

Dokaplex formwork sheet

Special feature:

Framax grid as specified by
architect



◀ Han Bit terraced housing

Location:

Zurich, Switzerland

Contractors:

Toneatti AG, Jona

Architects:

Burkhalter Sumi Architekten,
Zurich

Formwork:

Large-area formwork Top 50

Form-facing:

Timber planks

Building and industrial construction

Pharmacy, Ebenthal

Location: Ebenthal, Austria

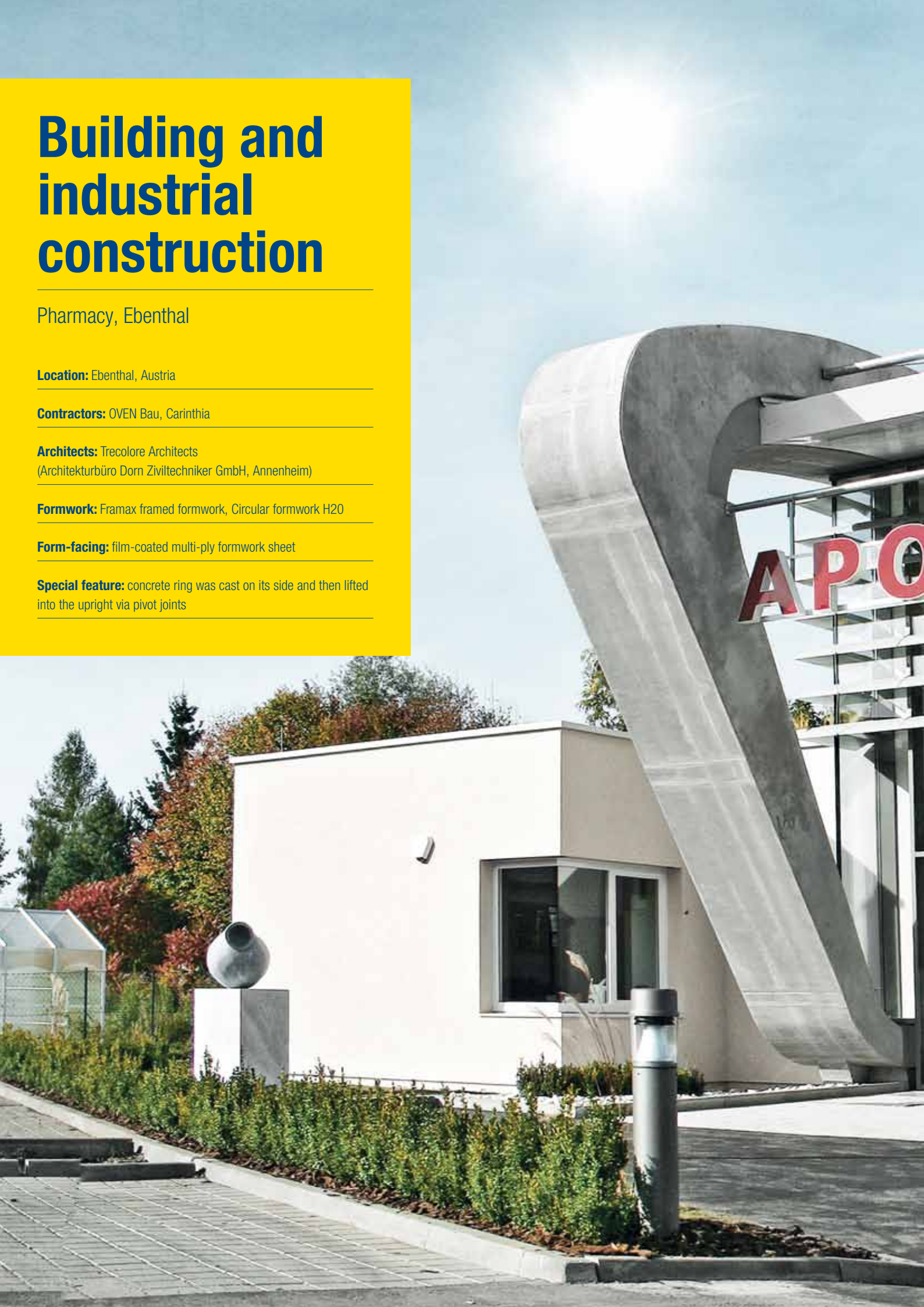
Contractors: OVEN Bau, Carinthia

Architects: Trecolore Architects
(Architekturbüro Dorn Ziviltechniker GmbH, Annenheim)

Formwork: Framax framed formwork, Circular formwork H20

Form-facing: film-coated multi-ply formwork sheet

Special feature: concrete ring was cast on its side and then lifted into the upright via pivot joints





**Building for BTV bank and
assorted investors, Telfs ►**

Location:

Telfs, Austria

Contractors:

Bodner, Kufstein

Architects:

Noldin & Noldin Architekten

Formwork:

Framed formwork Framax Xlife,
Large-area formwork Top 50

Form-facing:

Dokaplex formwork sheet



**Blumenstrasse
Administration Building ►**

Location:

Munich, Germany

Contractors:

Dechant Hoch- und Ing.bau
GmbH & Co. KG, Weismain

Architects:

Meck Architekten, Munich

Formwork:

Large-area formwork Top 50

Form-facing:

Film-coated multi-ply formwork
sheet

Special feature:

Non-tied facade formwork on
special platforms, coloured
concrete





◀ Domhotel

Location:

Linz, Austria

Contractors:

Strabag AG, Linz

Architects:

Hohensinn Architektur, Graz

Formwork:

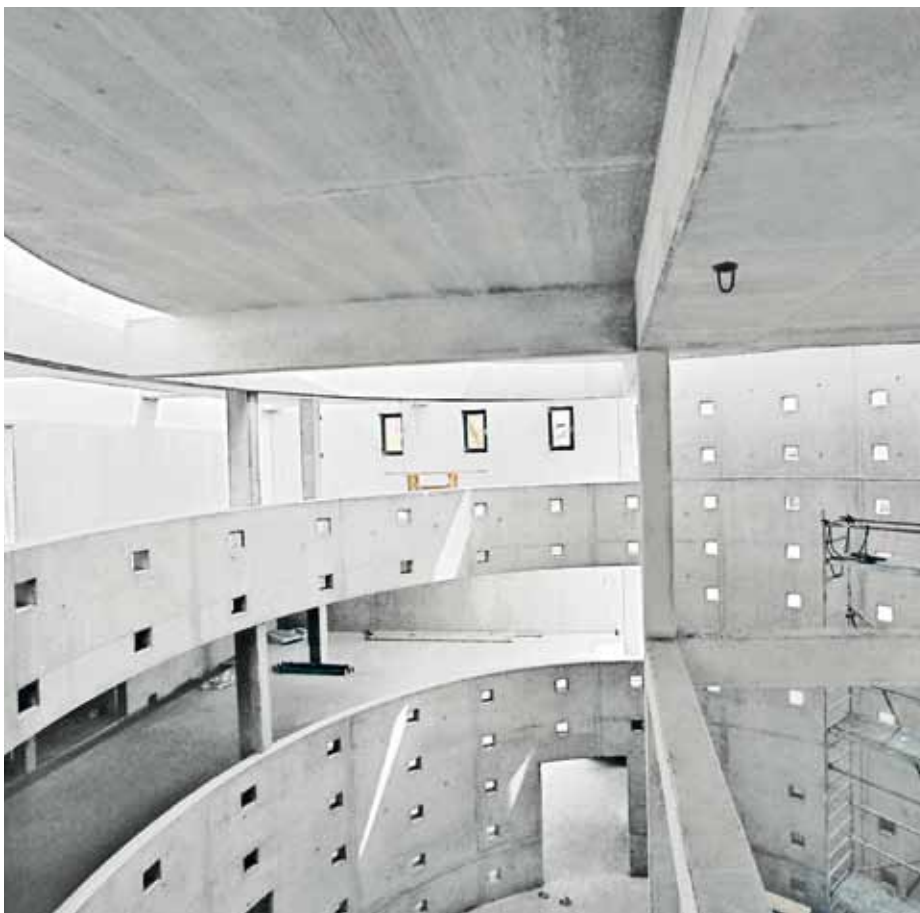
Framed formwork Framax Xlife

Form-facing:

Dokaplex formwork sheet

Special feature:

Building inclines in two directions; facade consists of columns and downstand beams only; exterior walls in CIP concrete with no visible form-tie holes



◀ GÉV HUNIBER Graphisoft

Location:

Budapest, Hungary

Contractors:

Gév-Huniber Kft.

Architects:

TEN Építész Műterem Bt.

Formwork:

Framed formwork Framax Xlife,

Large-area formwork Top 50

Circular formwork H20

Form-facing:

Film-coated multi-ply formwork sheet, 3-SO formwork sheet

Sporting facilities & cultural edifices

Red Rock National Conservation Area

Location: Las Vegas, USA

Contractors: Armada Construction

Architects: Line and Space Architects

Formwork: Large-area formwork Top 50 with profiled timber formers

Form-facing: film-coated multi-ply formwork sheet

Special feature: red dyed fair-faced concrete





Phaeno Science Centre ►

Location:

Wolfsburg, Germany

Contractors:

E. Heitkamp

Architects:

Zaha Hadid Ltd & Mayer Bährle

Freie Architekten BDA

Formwork:

Large-area formwork Top 50

Form-facing:

Tongue-and-groove boards

Special feature:

SCC, structure geometry



Museum Linauig ►

Location:

Neuhaus, Austria

Contractors:

Strabag AG, Carinthia

Architects:

querkraft - architekten zt gmbh,

Vienna

Formwork:

Large-area formwork Top 50

Form-facing:

Dokaplex formwork sheet

Special feature:

SCC concrete for 7 m high walls, travelling unit





◀ Bergen-Belsen Memorial

Location:

Bergen-Belsen, Germany

Contractors:

Wilhelm Wallbrecht GmbH & Co KG, Hanover

Architects:

KSP Engel und Zimmermann Architekten, Braunschweig

Formwork:

Large-area formwork Top 50

Form-facing:

Formwork sheet 3-S0, form-tie points and suspension points for platforms in pre-defined grid pattern



◀ Seebad Kaltern / Lido di Caldaro lakeside bathing centre

Location:

Kaltern, South Tyrol (Italy)

Contractors:

Zimmerhofer, Campo Tures

Architects:

Ernst J. Fuchs, Vienna the next ENTERprise - architects

Formwork:

Custom formworks with supporting construction

Form-facing:

Formwork sheet 3-S0

Special feature:

Complicated structure geometry



Infrastructure

Hungerburg Funicular, River Inn Bridge

Location: Innsbruck, Austria

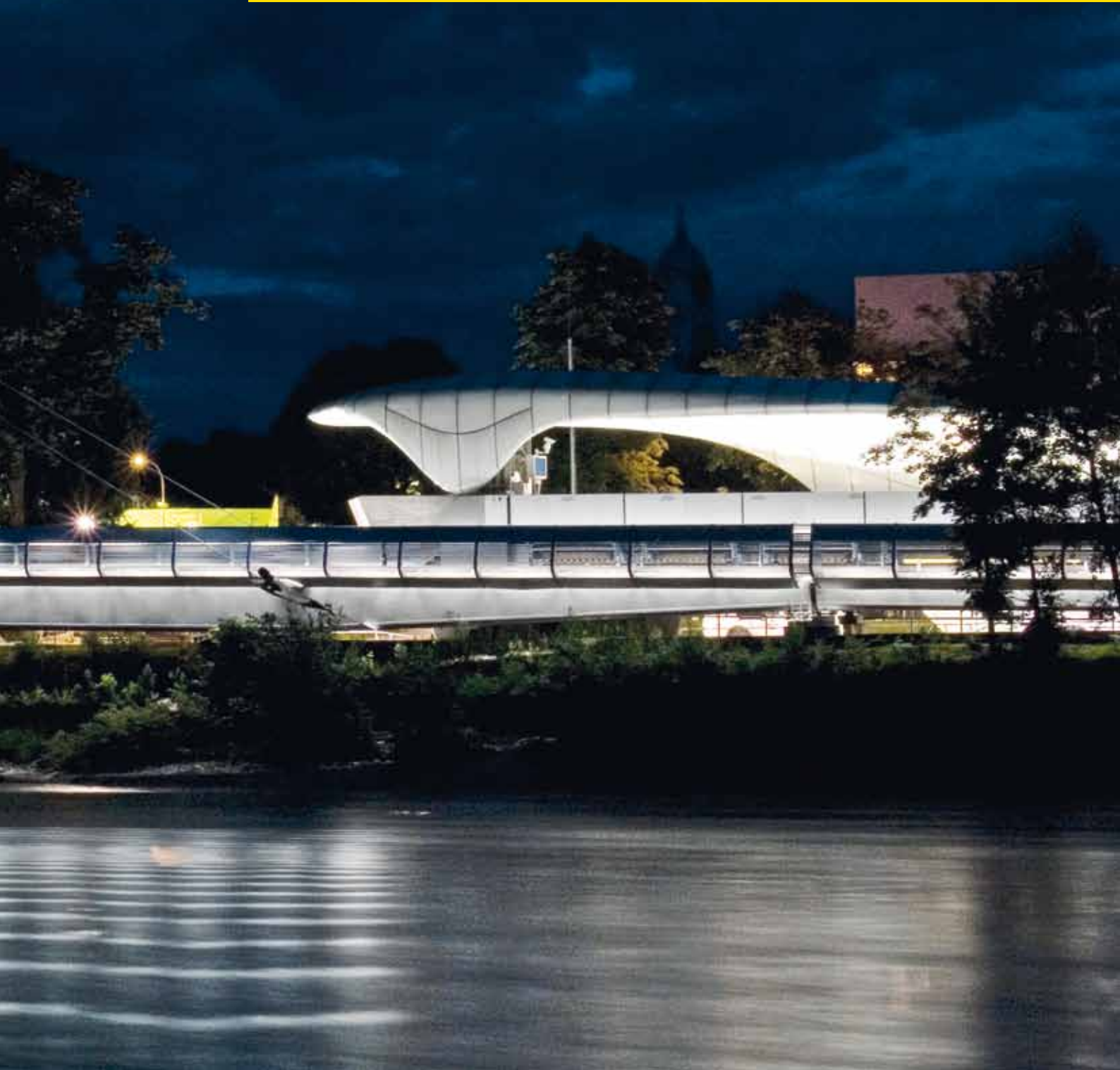
Contractors: Strabag AG, Innsbruck

Architects: Zaha Hadid

Formwork: Large-area formwork Top 50

Form-facing: tongue-and-groove board formwork

Special feature: each formwork used 1x only (unique to each casting section); same number and distribution of boards from bottom to top, despite taper



Estakáda Sluncová ►

Location:

Czech Republic

Contractors:

Skanska DS

Architects:

Doc. ing. arch. Patrik Kotas

Formwork:

Large-area formwork Top 50

Form-facing:

Formwork sheet 3-S0



Salzburg S-Bahn light-rail link, Taxham ►

Location:

Taxham, nr. Salzburg, Austria

Contractors:

Alpine Mayreder, Salzburg

Architects:

Planning consortium of Werner Consult - Bernhard + Partner, BM Ing. Stoik, Ing. Büro Wölfl, Arch.Fally-Halle 1, Vienna

Formwork:

Wall formwork FF20

Form-facing:

Dokaplex formwork sheet





◀ City Tunnel, Leipzig, Bayerischer Bahnhof railway station

Location:

Leipzig, Germany

Contractors:

'ARGE City-Tunnel Leipzig Los B'
consortium

Architects:

Peter Kulka, Dresden

Formwork:

Large-area formwork Top 50

Form-facing:

Film-coated multi-ply formwork
sheet

Special feature:

Integration of bracing struts
having both an architectural and
a structural function



◀ Retaining wall, Winkeln

Location:

St. Gallen, Switzerland

Contractors:

ARGE Winkeln consortium

Architects:

Wepf Ingenieure, Flawil

Formwork:

Large-area formwork Top 50

Form-facing:

Texture sheet 3-S0



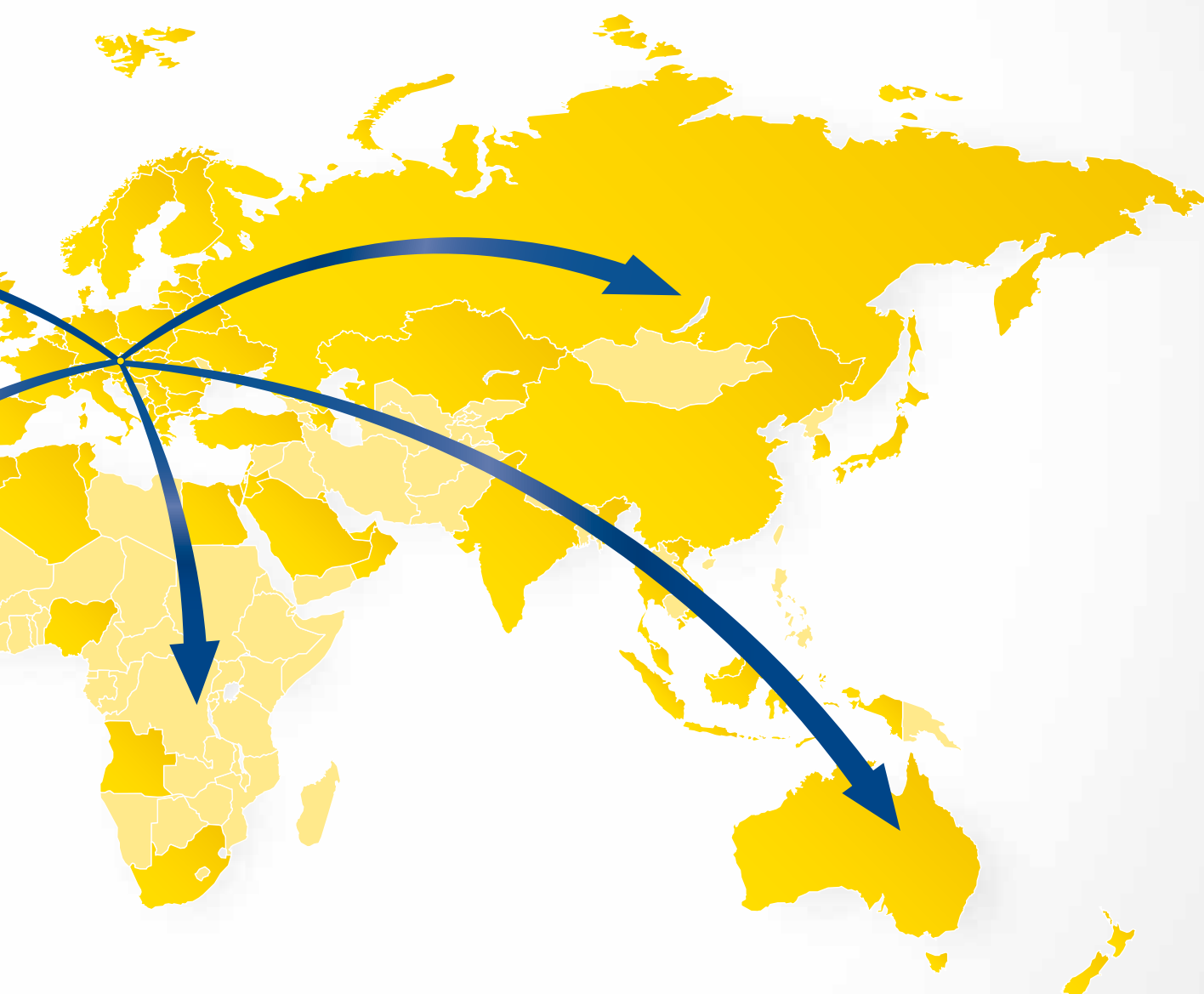
More information at
www.doka.com/ffc

Doka's world is everywhere

Being close to the market is one of our many strengths.

Having a worldwide presence is a good way of ensuring that formwork resources can be made available quickly. Our greatly expanded international branch network, with its efficient, high-capacity rental parks and many Ready-to-Use Service centres, backs up our commitment to security of supply and swift delivery times.





Important notice: Always observe all relevant safety regulations (e.g. as issued by construction-industry employee safety organisations) applying to the use of our products in the country in which you are operating. In addition, the User Information booklets (Instructions for Assembly and Use), which contain information on standard system set-up and on compliant utilisation of Doka formwork systems, must also be observed. The illustrations in this brochure show the situation during formwork assembly and are therefore not always complete from the safety point of view. It could be dangerous to combine our formwork equipment with other manufacturers'. If you intend to combine different systems, please contact Doka for advice first.



www.doka.com/ffc