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.
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.

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**Project Development Stage**

The stage in which decisions are taken based on professional advice and consulting:

- Detailed analysis of the initial situation
- Identifying the risks applying to planning, execution and costs

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**Bidding Stage**

The stage in which the overall framework is defined:

- Selecting the optimum formwork solution
- Determining the commissioning quantities
- Bid planning, incl. bills of materials
- Binding bid prices for rental and purchase

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**Project Mgmt. Planning Stage**

The stage in which the forming operations are organised for greater efficiency with the aid of optimised formwork concepts:

- Specifying the commissioning quantities
- Co-ordinating lead-times and handover deadlines
- Logistics concept

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

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**Engineering**

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**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.
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-SO**

  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
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

Xface 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
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 centrically 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 joins 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, Grosslittggen

**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-SO

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

<table>
<thead>
<tr>
<th>Location:</th>
<th>Vienna, Austria</th>
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<tbody>
<tr>
<td>Contractors:</td>
<td>Habau, Vienna</td>
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<tr>
<td>Architects:</td>
<td>Zechner &amp; Zechner ZT, Vienna; Architekt Monika Breu</td>
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<tr>
<td>Formwork:</td>
<td>Framed formwork Framax</td>
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<tr>
<td>Form-facing:</td>
<td>Dokaplex formwork sheet</td>
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<tr>
<td>Special feature:</td>
<td>Framax grid as specified by architect</td>
</tr>
</tbody>
</table>

Han Bit terraced housing

<table>
<thead>
<tr>
<th>Location:</th>
<th>Zurich, Switzerland</th>
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<tbody>
<tr>
<td>Contractors:</td>
<td>Toneatti AG, Jona</td>
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<tr>
<td>Architects:</td>
<td>Burkhalter Sumi Architekten, Zurich</td>
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<tr>
<td>Formwork:</td>
<td>Large-area formwork Top 50</td>
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<tr>
<td>Form-facing:</td>
<td>Timber planks</td>
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</tbody>
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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

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**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-SO, 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-SO

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-SO

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. Stöckl, Ing. Büro Wölfle,
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-SO

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.