doka

The Formwork Experts.

Protection screen **Xclimb 60**

The variable enclosure for all highrise projects

www.doka.com





_Understanding how to build high faster.

_Understanding the construction process truly and being knowledgeable about it is the prerequisite for being a partner to the construction industry. We have this understanding from the initial planning stage through to completion of construction. _Understanding such as this is based on more than 40 years‘ experience in self-climbing technology and more than 1,000 highrise projects successfully realised worldwide.

With this comprehensive know-how, we are well-qualified to be your high-performing and reliable partner in highrise construction.

_Understanding the requirements for protection screen solutions

Safe and productive working ...

Protection screen Xclimb 60 fully encloses the topmost levels of a highrise structure. The crew is always safe from falls and protected against strong winds. The much greater feeling of safety significantly increases work productivity.

... matched to the use case ...

Protection screens are most commonly used during construction of the structure shell. Compared to traditional solutions, moreover, they also offer much more added value whenever façade panels are being installed or existing structures have to be renovated or demolished.

... and to the structure.

Every highrise project is a unique build. The modular system of the Protection screen Xclimb 60 ideally covers a very wide range of structure-specific and client-specific requirements with standardised versions.

The Pros



Darren Ingram, Site Manager Aurora Melbourne Central

„Safety is important to us. Our work starts with safety in mind and carries through to all of our products and services. We also understand if it‘s done safely, it‘s also the fastest way to do the job.“



Dale Sullivan, Superintendent Schuster Concrete Construction

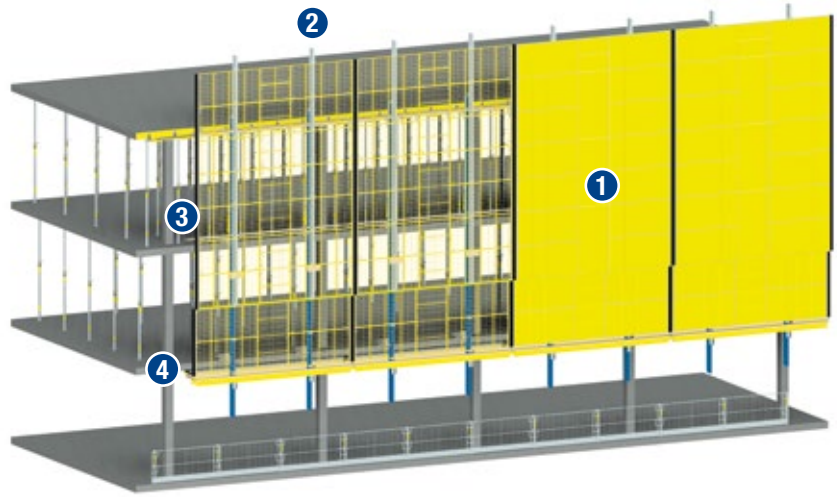
„The Doka Cocoon System lets workers perform to their maximum potential, while feeling safe in the sky. The fear factor of our crew was at ease.“

Protection screen Xclimb 60 in detail

Safe working at any structure height
- gapless enclosure prevents falls and protects the crew against wind and weather
- secured to the structure at all times

Can be used anywhere
- several design variants with respect to type of enclosure and working platforms
- adjustable floor supports for facades with both changing and constant inclinations

Smooth construction workflow
- crane lifts or repositioning by mobile hydraulic system
- the system can climb at any time, evenwhile the slab is formed in



More insights in our video:
www.doka.com/screenxclimb60-video

1. Enclosure
2. Vertical profile
3. Floor support
4. Working platform

Standard types of enclosure



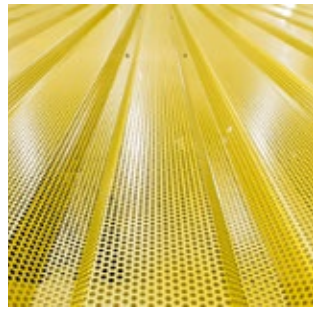
Frame Xbright with PC inlay
translucent, wind-impermeable and non-see-through



Frame Xbright with mesh inlay
translucent



Trapezoidal sheet
wind-impermeable, non-see-through



Perforated trapezoidal sheet
translucent



▲ The innovative floor supports enable the protection screen to track the building contour, with the gap remaining at a constant minimum. This helps ensure the highest possible level of workplace safety.



▲ The hydraulic unit is designed for simultaneous repositioning of up to 8 climbing units. Flat-face couplers help make the hydraulics easy to work with.



▲ Overlapping sealing profiles between protection screen units allow for horizontal movements of ± 5 cm.



▲ Straight from the truck to the building – shortly after delivery the pre-assembled protection screen units are in place on the structure, ready for work to proceed.



◄ Protection screen solution cantilevering over 2 ½ storeys enables the crew to form and cast two full floor levels without climbing the protection screen.

TECHNISCHE DETAILS

- Lifting capacity and load capacity: 6 metric tons/lifting unit
- Mobile hydraulic system with optional radio remote control
- System solution for horizontal and vertical sealing
- Depth of the working platform freely selectable
- Floor supports can be anchored to structure without lost anchoring components
- Choice of floor supports for structure geometries ranging from simple to complex
- Framed enclosure Xbright, also with telescoping function for flexible width adaptation, for transport and for dealing with changes in floor-plan
- Enclosure height and cantilever are defined on a project-specific basis
- Delivery to site in separate parts or as large, pre-assembled units

► Working-platform width is custom-matched to the project, depending on requirements. Made-to-measure debris barriers protect everyone and everything in the work zone underneath the protection screen from falling small items.

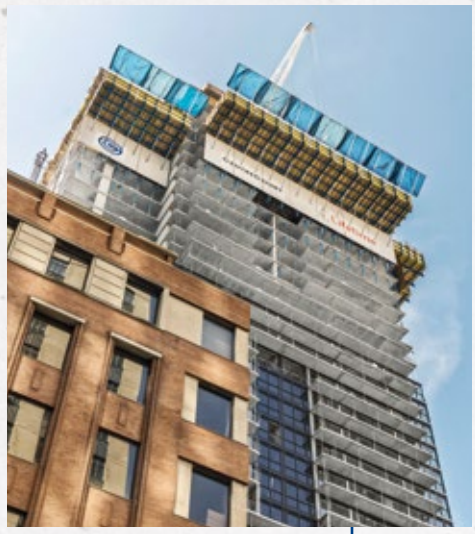


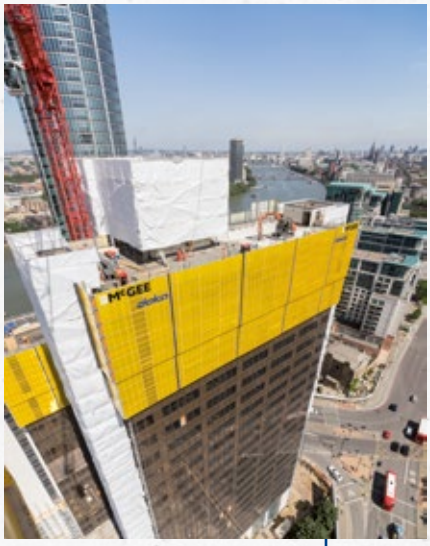


▲ Easy and precise positioning of the re-usable suspension points for the floor supports, because they are secured directly to the floor formwork.

▼ **INDX Condominium**
Toronto, Canada | 173 m

Loading platforms integrated into the protection screen provide large flats for equipment set-down and interim storage





► **No. 1 Nine Elms**
London, UK | 89 m

Automatic downward climbing with noise-abatement enclosure for controlled demolition work





◄ **Central Park Tower**
New York, USA | 473 m

Protection screen with 2 ½-storey cantilever for fast work cycles



► **OMNITURM**
Frankfurt, Germany | 190 m

Protection screen follows the structure's challenging geometry with no need for additional modifications



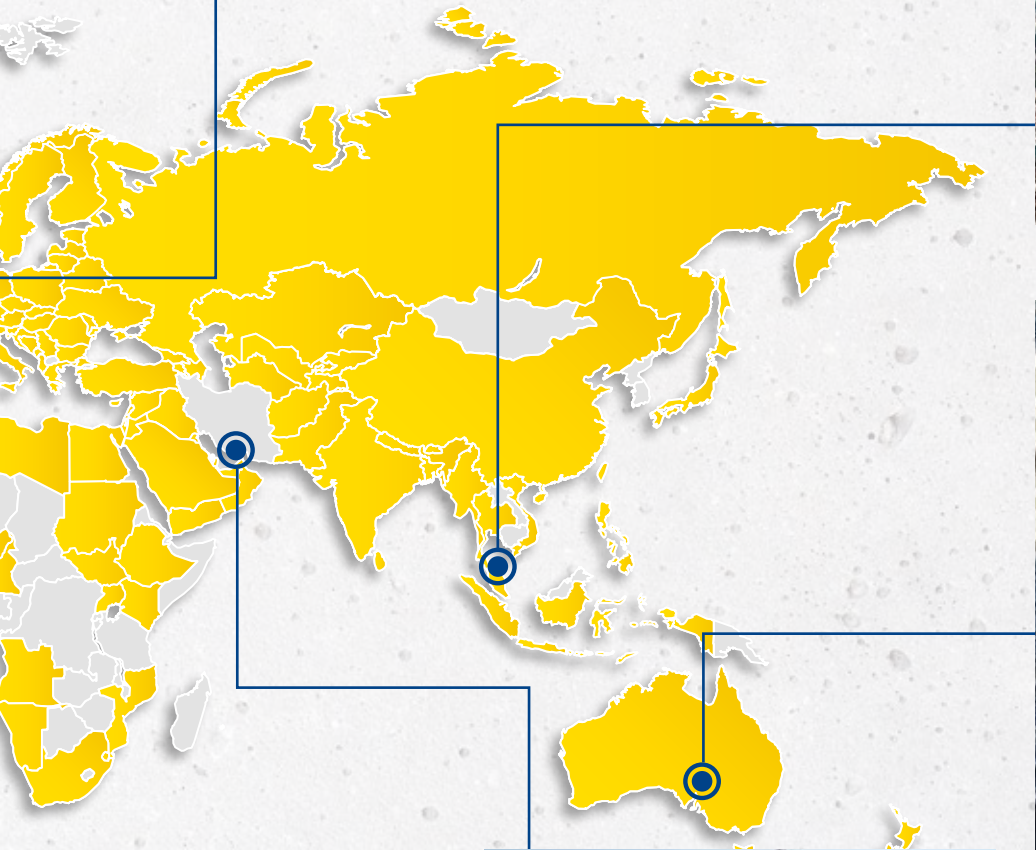
◄ European Central Bank
Frankfurt, Germany | 185 m or 165 m

Automatic climbing Table Lifting System TLS integrated into the protection screen for craneless vertical repositioning of loads.

► Exchange 106
Kuala Lumpur, Malaysia | 492 m

The protection screen solution with integrated debris net system protects against falling objects as work on the steel-girder skeleton progresses ahead of concreting operations.







▲ Aurora Melbourne Central
Melbourne, Australia | 269 m

Protection screen with integral monorail system for fast and easy installation of the façade panels

► Juma AL Majid Tower
Dubai, UAE | 210 m

Protection screen solution with free choice of enclosure for compliance with set of customer-specific requirements



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We reserve the right to make alterations in the interests of technical progress.