

DokaXpress Magazine Canada | 2nd edition



Formwork & Scaffolding.
We make it work.

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MFE Formwork Technology
is now part of Doka

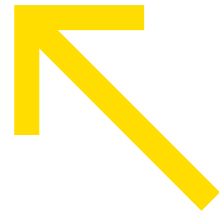
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A Modern Living Experience

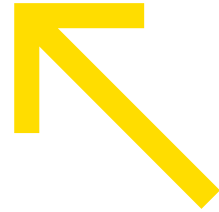
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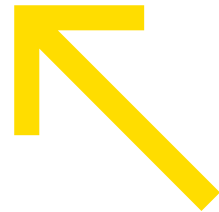
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In some cases the site photos show the situation during formwork assembly and are therefore not always complete from the point of view of safety.



Welcome to the 2025 edition of Doka Xpress!

As the new year kicks off, it's a great time to reflect on what's been accomplished, look ahead to what's on the horizon, and share our continued gratitude for the customers who have trusted us to support them every step of the way.

Despite some real economic challenges affecting world markets last year, the demand for high-quality formwork and scaffolding solutions looks strong moving into 2025. Canada's construction industry has proven resilient, with infrastructure developments continuing to see steady growth. While high interest rates and inflation have

presented challenges, strong investment in public infrastructure by all levels of government underscores the importance of our industry in driving long-term, sustainable economic development. Additionally, we are seeing technology adoption and innovative construction methods being embraced to overcome labour shortages and increase efficiency on jobsites.

At Doka Canada, we remain focused on ensuring we can meet the industry's changing needs. Recently, we have made strategic investments in our operations, facilities, and product inventory to better serve our customers. Last year, we expanded our presence in Vancouver, which is experiencing rapid growth driven by commercial, residential and infrastructure development. Additionally, we have strengthened our presence in Ontario and Quebec to support large-scale infrastructure projects that often require innovative and custom formwork solutions.

We also invested in systems that help us grow our business more sustainably, including a new solar energy installation at our Calgary facility. The construction industry is evolving, and we are proud to lead the way by making strides toward our goal of net zero carbon emissions by 2040.

As we look forward to the opportunities ahead, Doka remains your trusted partner for formwork and scaffolding solutions across Canada. We hope you enjoy reading about the standout projects featured in this issue, and we extend our thanks to the customers and partners whose work is highlighted here for their trust and collaboration.

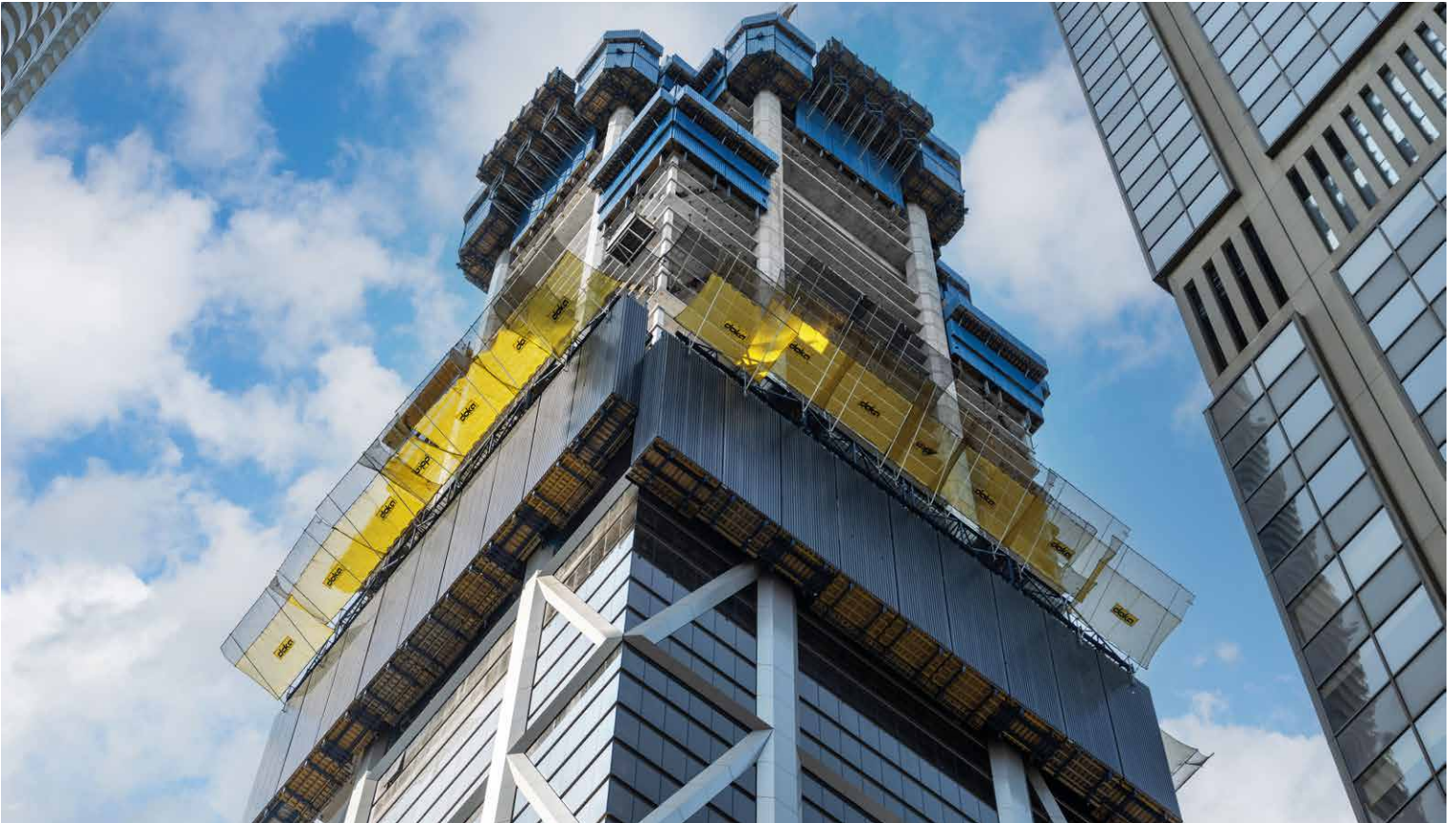
Together, we make it work!

Gunnar Falke
CEO, Doka Canada



Designing New Heights: The One Tower in Toronto

A modern marvel at Yonge and Bloor, The One redefines Toronto's skyline with innovative design, advanced technical design, and luxury living.



Doka, in collaboration with SkyGrid and Hardwall Construction Ltd., is helping to shape Toronto's skyline with The One. Designed as a sleek, modern residential skyscraper, this project will stand among Canada's tallest buildings at 306.324m (1,005ft), offering luxury condominiums, retail spaces, and state-of-the-art amenities. Located at the bustling intersection of Yonge and Bloor Streets, The One will offer residents immediate access to public transit and an array of shopping, dining, and cultural experiences. This development blends urban living with a sense of community, adding a bold new dimension to Toronto's architectural landscape.

Challenges:

The complex design required advanced planning to maintain the building's structural integrity and to support the project's bold architectural vision.

For example, one of the key design challenges of The One was to provide a totally custom hydraulically climbed windscreen solution which was suspended on two mega-columns that allowed installation of the glass on the outside of the building. Transporting these oversized steel components through Toronto's busy city core presented logistical challenges that required meticulous coordination from all parties involved.

Another significant challenge was ensuring worker safety as the The One rose to its impressive height of 306.324m. At this elevation, wind and other weather conditions posed significant risks and had the potential to cause substantial delays. The customer needed an efficient solution to safeguard their crew while keeping the project on schedule.

Doka's innovative windscreen system, designed by our technical team, provided a safe, enclosed working platform, ensuring uninterrupted construction despite adverse weather.



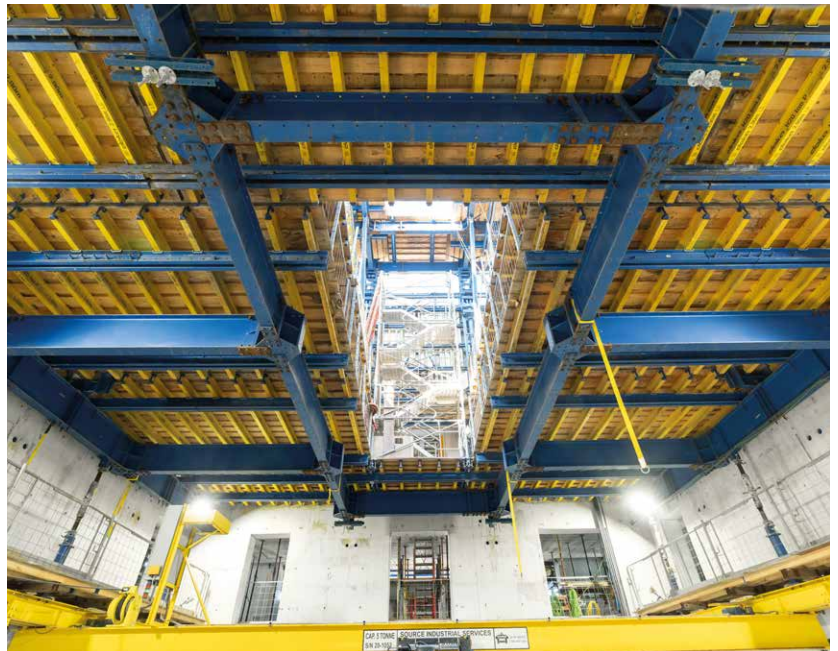
Solutions:

Doka addressed these challenges with a series of innovative, custom-designed solutions. The eight massive mega-columns of The One were supported by Doka's SKE100 platforms, providing robust and efficient climbing solutions to form the structural backbone of the tower. The core wall construction was streamlined using Doka's Self-Climbing Platform (SCP) system, which included a suspended gantry crane to facilitate formwork installation for the lobby slabs. This integration minimized on-site labour and maximized efficiency.

Doka's Top 50 modular formwork system was used for the mega columns and core walls, offering a flexible solution tailored to the project's unique geometry and requirements. Xclimb 60 loading platforms served as critical storage areas for wall formwork during the construction process, ensuring materials were always accessible and work zones remained organized. To provide trailing protection for balcony slabs, Doka supplied Xclimb 60 balcony screens, ensuring safety for workers at height and protecting the surrounding areas from falling debris.

At the forefront of safety and innovation was a unique windscreen system developed by Doka's technical design team. This system featured nine individual screens per side (east, west, and north) that were suspended from a truss, which hydraulically climbed the building. This setup created a fully enclosed and safe working platform. The windscreens could be easily elevated to new levels as the building rose, allowing construction to proceed uninterrupted by adverse weather conditions.

To ensure timely and seamless implementation, Doka collaborated closely with the customer and city officials to coordinate the delivery of large components such as windscreens and steel trusses. This meticulous planning ensured safe transportation to the site without disrupting traffic. All Top 50 formwork and Self-Climbing SCP platforms were pre-assembled off-site by Doka, reducing on-site labour requirements and expediting installation. Doka's field service team provided on-site expertise, overseeing the installation and commissioning of the hydraulic systems to ensure smooth integration of the custom components. Additionally, Doka designed, manufactured, and inspected numerous custom steel elements, meeting the project's exact specifications and upholding the highest safety and efficiency standards for this unique structure. ■



Doka's Top 50 modular formwork system and Xclimb 60 solutions provided flexibility, organization, and safety for the project, ensuring efficient construction and worker protection.



Doka's Self-Climbing Platform (SCP) system with suspended gantry crane streamlined core wall construction and enhanced efficiency on-site.

The Facts:

Project: The One

Location: Toronto, Ontario

Contractor: SkyGrid, Hardwall Construction Ltd.

Architect: Foster + Partners, Core Architects

Developer: Mizrahi Developments

Type of Structure: Residential Skyscraper

Height: 306.324m

Stories: 85

Products used:

Core: Top 50 with SCP

Columns: Top 50 with SKE100 platforms

Façade: Loading platforms Xclimb 60, balcony protection screens, custom windscreen for window installation

Shoring: Ultradek

Doka Halifax: Proudly Serving the Atlantic Provinces

On May 11, 2023, Doka Canada proudly marked a significant milestone with the grand opening of its fifth branch, strategically located just outside Halifax, Nova Scotia.

Established in 2023, the Halifax team has committed to delivering exceptional service across the Atlantic Provinces, meeting customers' formwork and scaffolding needs with expertise and dedication. Conveniently located at 41 Martha Avenue in Mount Uniacke, NS, the branch is equipped to provide a full range of on-site services, including sales, technical design, and efficient shipping and receiving solutions.

The Grand Opening event was a memorable occasion, offering customers an exclusive look at the state-of-the-art facility. Guests enjoyed live demonstrations of Doka's innovative systems, showcasing the company's cutting-edge solutions. The celebration also featured a delicious catered lunch and exciting giveaways as a gesture of gratitude to attendees.

Supporting the branch are experienced account managers Tim Silver and Glen Hook, who bring a wealth of knowledge and a customer-focused approach to serving clients in the region.

As Doka Canada continues to grow, the Halifax branch exemplifies Doka's commitment to expanding its reach and delivering unparalleled service to customers across the country. ■



1 Gunnar Falke, CEO of Doka Canada and Markus Reidl, branch manager of Toronto shake hands at the Doka Halifax opening event

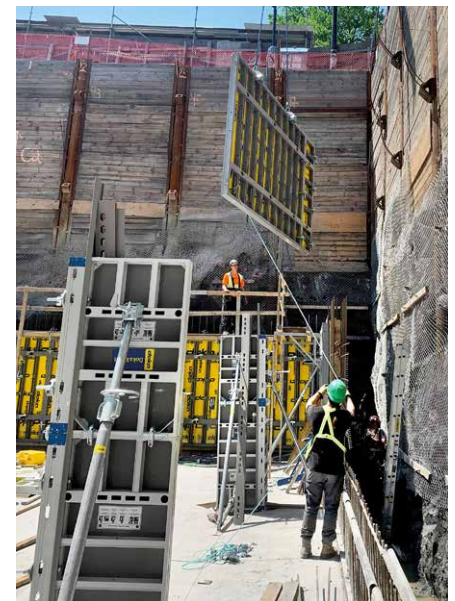
2 Doka Halifax's team is ready to tackle all of the Atlantic Province's formwork & scaffolding needs

3 Our experts performing live demos of our Dokadek 30 system





Doka Halifax's Press Block project required the use of our Dokadek 30 and a single sided Framax Xlife plus application to preserve the existing historical facade of the building.



Building for the Future, Honouring the Past

Doka Halifax's Impact on Atlantic Construction

Since its grand opening, Doka Halifax has celebrated numerous triumphs in the Atlantic area. One notable success is our contribution to the 5616 South Street project, which marked the debut of the first-ever Doka loading platform in the Atlantic Provinces.

With weight capacities of 3 tons and 5 tons, our loading platforms offer a streamlined solution for safe material transportation between building levels, meeting our customers' needs efficiently.

Another remarkable endeavor by Doka Halifax is the Press Block Project, a multi-story residential project with ground-floor commercial space set within the façades of two historic buildings in Halifax, Nova Scotia. This historic site has a rich association with journalism and the printing industry dating as far back as 1780, when it was home to the Halifax Journal. The new construction prioritizes conservation of the historic façades

and other heritage elements left on the site. Doka was chosen as the exclusive formwork supplier for this complicated and historically important project.

The application of our Framax Xlife plus system with single-sided tie rod application proved indispensable in this project, given the constraints of limited workspace. Additionally, our Xlight formwork was employed for pouring columns ranging from 2.6m to 3.6m tall, utilizing a handset system to minimize crane usage on-site.

For the slabs in this project, the customer used our Dokadek 30 system, incorporating sections specially de-

signed by our team to create sloped drains and ramps. The efficiency and safety of this system enabled the team to work continuously even during the harsh winter months, without the need to stand on top of the formwork during assembly. We are also delighted to note the successful deployment of the second loading platform in the Atlantic Provinces on this project.

With innovative products, custom engineering support, and a new local presence, Doka Halifax has firmly established itself as a prominent player in the eastern formwork sector, continuing to expand its capabilities to support our customers with each passing day. ■

Shaping Toronto's Skyline

With innovative design and adaptable solutions, Doka's Toronto team tackled complex core changes and urban logistics to help shape one of the city's most transformative developments.



Located at the heart of downtown Toronto, the commercial high-rise towers at CIBC Square are set to redefine the city's skyline by connecting Toronto's waterfront with the financial district. The project, which consists of two world-class towers spanning a total of 3 million square feet, will provide an exceptional work environment filled with forward-thinking features, including an art program and an elevated public park.

The towers, located at 81 and 141 Bay Street, each represent a significant phase in the development's ambitious timeline. 81 Bay, the first tower, was completed with Doka's help in 2021 and now stands as a prominent feature of Toronto's downtown core. For 141 Bay, excavation began in 2021, and the tower is expected to be completed by early 2025.

Challenge:

One of the most significant challenges encountered during the construction of CIBC Square was managing the changing core as the towers grew in height. As the structure rose, the core dimensions needed to be adjusted, requiring careful planning and engineering precision. This changing core configuration presented complications in maintaining a consistent workflow and demanded adaptable formwork solutions to keep the project on schedule.

Additionally, the project's location in the heart of downtown Toronto, one of Canada's busiest urban centers, added further logistical hurdles. With heavy traffic and restricted space for material deliveries, maneuvering large trucks and equipment into the confined construction site became a constant challenge. Tight schedules and limited room for staging deliveries created a need for meticulous coordination between all teams involved.

The Facts:

Project: CIBC Square, 141 Bay Street

Location: Toronto, Ontario

General Contractor: Ellis Don

Concrete Contractor: Structform International Ltd.

Architect: Wilkinson Eyre Architects,
Adamson Associates Architects

Developer: Hines, Ivanhoe Cambridge

Type of Structure: Commercial Towers

Height: 780-ft. tall

Stories: 49

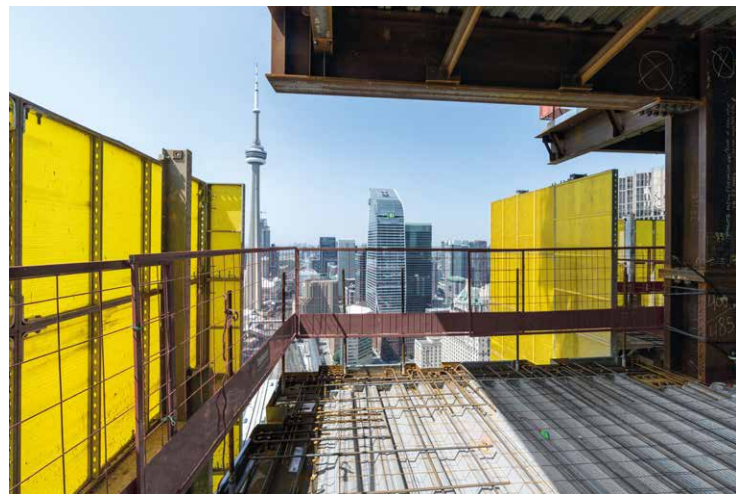
Sq. Ft.: 3,000,000

Products used:

Core: Top 50 Wall Formwork, Super Climber SCP,
Automatic Climbing SKE100 plus

Façade: Xbright Windscreen

Shoring: Staxo 100, Ultradek



Doka's customized platforms, developed in collaboration with the client, seamlessly integrated with our Self-Climbing System (SCP) to adapt to changing core dimensions, ensuring smooth progress and safety throughout construction.



Solution:

To address the changing core dimensions, Doka's technical design and pre-assembly teams worked closely with the client to develop customized platforms that work in conjunction with our Self Climbing System (SCP). These platforms were engineered to be highly adaptable, ensuring they could be adjusted in real time as the core of the building evolved. The solution allowed for seamless progression in the construction process, preventing delays and ensuring safety as the structure grew.

For the logistical challenges, Doka coordinated with the client and with local authorities to implement a strategic delivery schedule that optimized off-peak hours, reducing traffic interference and ensuring that deliveries could be made with minimal disruption. Pre-assembled components also played a crucial role in minimizing on-site labour, speeding up installation while reducing the need for extended truck maneuvering time in the constrained space.

Doka's field service team also played a pivotal role on-site, ensuring that the formwork systems were being used correctly and safely. Their hands-on support helped crews work efficiently with the adaptable platforms, keeping the construction process smooth and allowing the client to make full use of Doka's tailored solutions. ■

Doka Canada at the CCE:

Showcasing Innovation and Expertise in Concrete Construction

The Canadian Concrete Expo stands as the sole national trade exhibition in Canada exclusively dedicated to the concrete, construction, and aggregates sector.

With six years under its belt, the CCE has drawn in over 350 exhibitors from both national and international spheres, attracting 8,000 industry professionals to its expansive 300,000 square feet of exhibition space. It serves as a platform for industry players to forge connections, scout new suppliers, and explore cutting-edge equipment.

For the past four years, Doka Canada has proudly taken part in the CCE as a silver sponsor, constructing a distinctive and striking booth to showcase our diverse range of systems. In 2024, our booth featured a lineup including our DokaXlight, Framax Xlife plus, Dokadek 30, DokaTruss, Supercurve, KS Column, and AT-PAC Scaffolding systems.

In addition to spotlighting our array of innovative products, we shone a light on our digital services team. Michael Genz, Digital Service Delivery Specialist, provided visitors with insights into our Concremote and DokaXact technology. Concremote utilizes sensors to monitor concrete temperature and calculate compressive strength, streamlining processes, cutting costs, and enhancing quality. DokaXact, on the other hand, employs sensor-based technology to optimize formwork operations and concrete pouring, boosting efficiency, quality, and safety onsite.

This year marked a significant milestone for Doka Canada as we

participated in our inaugural live stage demonstration. Our team of experts showcased the assembly of our handset DokaXlight system for both wall and slab applications. Guided by our expert sales representatives, Tim Silver and David Thomas, and supported by our Toronto field service team, the setup was completed swiftly in under 20 minutes. Our demonstration garnered considerable attention, drawing a large audience eager to witness our systems in action and delve deeper into their capabilities.

Our engaging booth, live demonstrations, and spotlight on digital services have not only captivated attendees but also generated new connections for future collaborations. With another successful show behind us, we look forward to returning to the CCE in 2025. ■



Doka Canada's Experts on site at the 2024 Canadian Concrete Expo.





Each year, engineering students from across Canada compete in the Great Northern Concrete Toboggan Race. Doka Canada is proud to support this exciting event.

Gliding Towards Innovation

Doka Canada Sponsors the Great Northern Concrete Toboggan Race.

Originating in 1974, the Great Northern Concrete Toboggan Race (GNCTR) is the longest and largest running engineering student competition across Canada.

Its purpose is to challenge the innovation and technical skills of over 450 students from over 20 universities and technical schools across Canada.

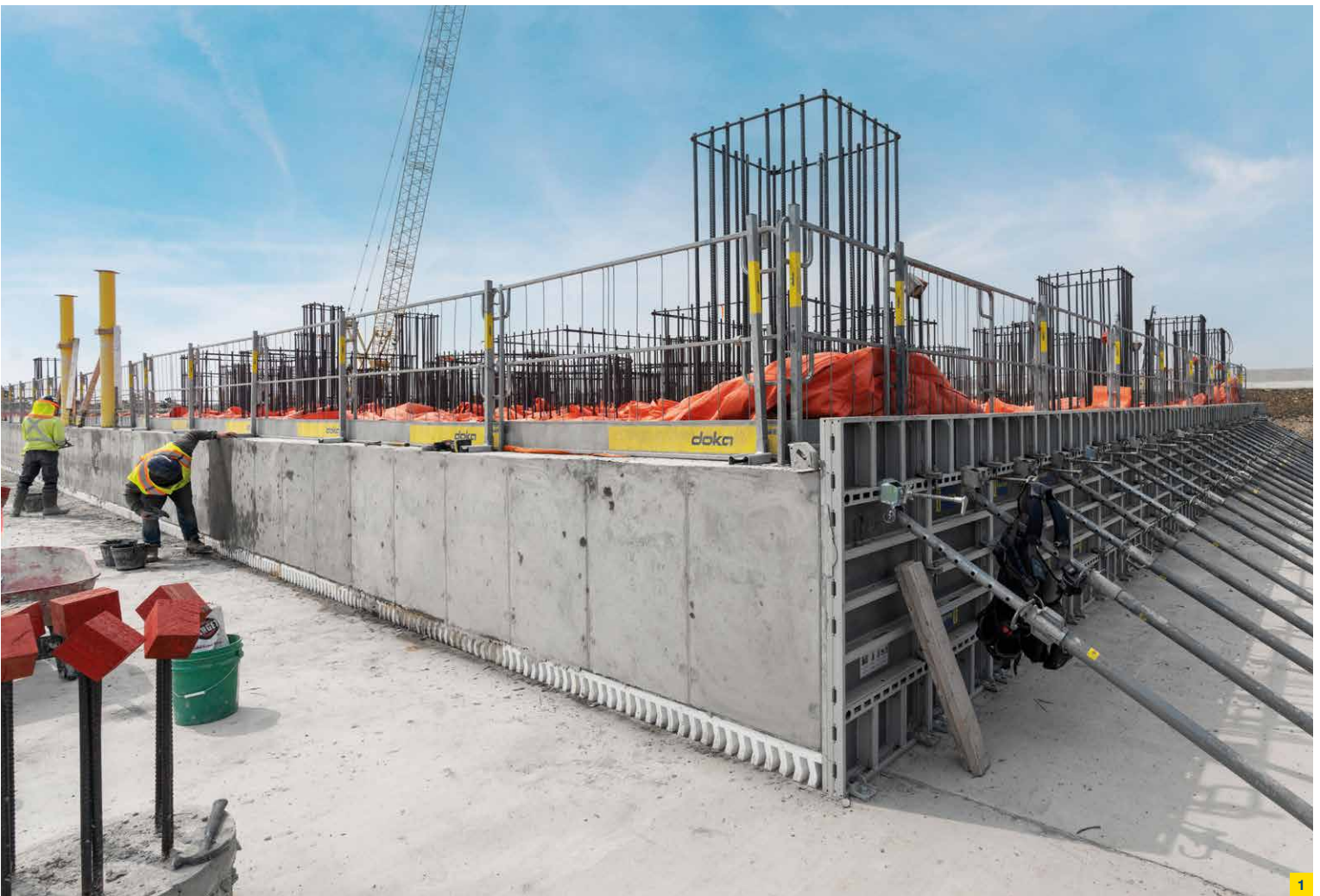
For this competition, each team must create a toboggan with concrete running surfaces, a roll cage, and mechanical steering and braking systems to ride down a steep snowy hill. To make this competition even more exciting, teams assign a theme to their toboggans, dressing up in costume and incorporating it into the design of the toboggan itself. There are many awards to be won for technical design, safety, racing, and spirit.

In February 2024, Doka Canada was proud to become a first-time sponsor of the 50th annual GNCTR in St. John's, Newfoundland. During the technical exhibition hosted for the students and public, our experts had

the opportunity to educate the attendees about Doka, highlight our digital services, and discuss future career opportunities.

Doka Canada team members had a blast participating in this event, and we are excited to announce that we are once again a sponsor for the 2025 GNCTR, to be hosted in Montreal! ■





Building Strong Foundations for High-Impact Growth

Efficient formwork solutions and seamless teamwork lay the groundwork for BHP's ambitious production expansion in Saskatchewan.

Located about 140 km east of Saskatoon, the Jansen potash mine is expected to be one of the largest facilities of its kind, once completed. With the construction entering its second stage, owner BHP aims to double the mine's potash output to around 8.5 million tonnes annually. Graham Industrial Services began work in April 2024, finishing the pile caps in September 2024. Graham executed the pile caps in 17 mass pours, employing a "waterfall effect" where separate teams worked in tandem across different areas. Each day, one team would erect formwork, while another would set rebar in the area where formwork had been placed the day prior.

Challenges:

Building the foundations for BHP's Stage 2 Mill required a meticulously coordinated approach, particularly given the large-scale concrete pours and the need for teams to work simultaneously across different areas.

Ensuring smooth transitions in this "waterfall" setup added complexity, as formwork, rebar placement, and concrete pours all needed to align seamlessly. The challenging timeline also demanded high productivity, efficient scheduling, and minimizing equipment use to keep the project on track.



Solutions:

To maximize labour productivity and maintain the project's demanding schedule, Doka provided targeted engineering support and services throughout the entirety of the project. The DokaXlight system, with its one-sided design, eliminated the need for ties and featured lightweight panels that could be moved manually, reducing equipment requirements. For the Mill's compaction table, Doka utilized the Staxo 100 system, which accelerated the drawing and engineering process, further streamlining construction.

Construction of the piers and compactor tables is scheduled to continue through mid-2025. ■

The Facts:

Project: JS2 Mill #2 Foundations – BHP

Location: Jansen, Saskatchewan

Contractor: Graham Industrial Services LP

Architect: Hatch

Developer: BHP

Type of Structure: Pile cap foundations and piers

Height: Pile caps: 1.5m, Compactor Structure: 11.5m

Stories: 2

Sq. Ft.: 177,600

Products used:

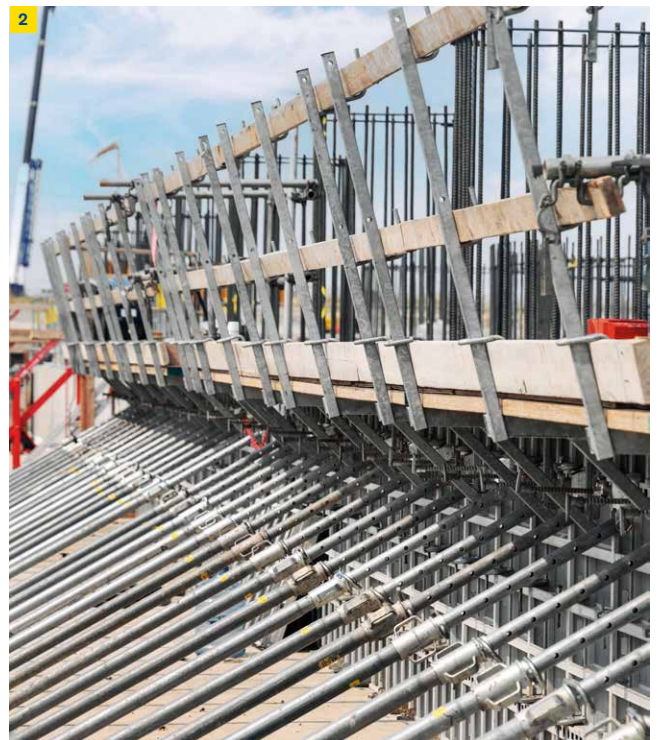
Foundations and pedestals: DokaXLight, Super Curve

Columns: Framax S Xlife

Shoring: Staxo 100

Other: Stair Towers for egress

- 1 The DokaXlight system's one-sided design and lightweight panels eliminated the need for ties and reduced equipment requirements, streamlining the process with manual handling.
- 2 Doka delivered specialized engineering support and comprehensive services throughout the project, ensuring maximum labour productivity and adherence to the demanding schedule.
- 3 Doka's Edge protection system XP provided a universal safety solution, seamlessly integrating with Doka systems to safeguard slab edges and serve as fall-arrest barriers.
- 4 Doka's Staxo 100 system was used for the Mill's compaction table, accelerating the drawing and engineering process to streamline construction.



Innovative Formwork Solutions Drive ARROW Utilities Wastewater Expansion

Doka and PCL Construction team up to streamline formwork assembly, efficiency, and quality for the new treatment train at ARROW Utilities

In partnership with PCL Construction, Doka is contributing to the expansion of the ARROW Utilities wastewater treatment plant by adding a fourth treatment train, known as Train 4. This addition incorporates a state-of-the-art membrane bioreactor, designed to meet strict effluent requirements and provide reusable water for industrial clients. This crucial expansion underscores the project's commitment to sustainable water management while addressing increasing industrial needs.

Challenges:

The project faced several challenges, beginning with a limited pool of skilled labour, leading to the need for straight-forward, user-friendly formwork systems. The compact site layout allowed for only two cranes to manage three separate construction fronts, meaning gang formwork systems had to cycle efficiently to avoid delays. Additionally, the design required one-sided walls to connect seamlessly with previously poured structures, creating complex sequencing challenges.



- 1 Doka supports the ARROW Utilities wastewater treatment plant expansion with Train 4, featuring a cutting-edge membrane bioreactor to meet strict effluent standards and supply reusable water for industrial use.
- 2 Chosen for its durability and suitability for large gang wall setups, our Framax S Xlife system enabled efficient assembly with minimal adjustments.
- 3 Doka Eurex 30 provided stability and flexibility for reshoring, while Dokaflex S, Dokadek 30, and Dokamatic S Tables streamlined shoring with quick setup and high load capacity.
- 4 Our Doka team collaborated with PCL to create custom formwork layouts tailored to the pour sequence and timeline, featuring precise component details, quantities, and clear assembly instructions





Solutions:

To address these challenges, Doka designed a range of adaptable, high-performance formwork and shoring systems designed for ease of use and productivity on complex sites. For walls, the Framax S Xlife system was chosen for its toughness and compatibility with large gang wall setups, enabling efficient assembly and minimal adjustments. Doka Eurex 30 and Super Props were used for reshoring, adding stability and flexibility across varying construction stages. Staxo 100, Dokaflex S, Dokadek 30, and Dokamatic S Tables were used to streamline shoring processes, each selected for its quick setup and ability to handle significant load capacities, which were crucial in maintaining the project's cycle schedule. Doka also supplied Stair Towers for safe and reliable site access, ensuring efficient movement across all areas.

The Doka team worked closely with PCL to customize formwork layout drawings that supported the specific pour sequence and timeline. These detailed layouts included precise component locations, quantities, and assembly instructions, making them easily interpretable and modifiable by the team. Doka's efficient and reliable systems helped achieve smooth, high-quality finishes on walls and slabs, with ongoing support from Doka's field service team ensuring consistent execution. Through-

The Facts:

Project: ARROW Utilities Wastewater Treatment Plant Upgrade – Train 4 Expansion

Location: Fort Saskatchewan, Alberta

Contractor: PCL Construction

Architect: Associated Engineering

Developer: ARROW Utilities

Type of Structure:

Cast-in-place Concrete Foundation

Height: 17m

Stories: 2

Sq. Ft.: 100,000

Products used:

Walls: Framax S Xlife

Reshoring: Doka Eurex 30 and Super Props

Shoring: Staxo 100, Dokaflex S, Dokadek 30,

Dokamatic S Tables

Other: Stair Towers for egress

out the collaboration, Doka and PCL delivered formwork solutions that met the project's high standards for safety, cost efficiency, and productivity, resulting in an expertly managed expansion of the ARROW Utilities wastewater treatment plant. ■



Source: Government of Canada. (2022). "Generation Intensity (g CO₂ eq / kWh) to produce one kWh of electricity on the grid in Alberta." Retrieved from [Canada's Official Greenhouse Gas Inventory](https://data-donnees.az.ec.gc.ca/data/substances/monitor/canada-s-official-greenhouse-gas-inventory/C-Tables-Electricity-Canada-Provinces-Territories/?lang=en).



Doka Canada begins generating green electricity in Calgary with on-site solar energy system

Aug. 13, 2024 – Doka Canada is proud to announce the successful installation of a state-of-the-art solar panel system at its Calgary location.

This new solar installation is expected to generate 175,000 kWh of electricity annually, marking Doka's commitment to sustainable energy practices and reducing the company's carbon footprint.

Investing with impact

Generation Intensity is a measure used to evaluate the environmental impact of electricity production. It specifically quantifies the amount of carbon dioxide (CO₂) emissions produced per unit of electricity generated. Based on the latest data from the Government of Canada, the Generation Intensity in Alberta is 470 grams of CO₂ per kWh of electricity produced on the grid. By generating 175,000 kWh of clean energy each year, Doka Canada will reduce CO₂ emissions by approximately 82 metric tons annually. This reduction is equivalent to removing about 18 gasoline-powered cars from the road each year.

Doka Canada considered multiple factors when selecting the type and size of the solar installation, including panel performance and facility electrical consumption. The team selected Bifacial Longi panels due to their proven reliability and superior performance, particularly in snowy environments. These panels warm up faster, allowing them to shed snow more efficiently and maximize energy production during winter months.

Doka's solar installation was a collaborative effort involving several key partners:

- **ICM Property Developments Ltd.:** Developer
- **SBL Contractors Ltd:** General Contractor
- **Incom:** Electrical Contractor
- **Solum:** Solar Specialist
- **United Roofing:** Roofing Contractor
- **TRL:** Structural Engineering Firm

Acting on a long-term commitment

"Doka Canada's commitment to sustainability is reflected in our investment in renewable energy," said Gunnar Falke, CEO of Doka Canada. "This solar installation not only reduces our environmental impact but also helps set a benchmark for the construction industry in adopting green technologies."

Doka and its parent company, the Umdasch Group, aim to achieve net zero CO₂ emissions by 2040 by producing more efficiently, innovating methods and materials that have a positive ecological impact, and using energy more sparingly.

"Moving the needle requires that we all do our part," says Gunnar. "So, while the work does not stop here, we are glad to have made this meaningful step. This is an early but important milestone on our journey to net zero." ■

Doka plays a lead role in developing product carbon footprint standards in the formwork and scaffolding industry

A product carbon footprint (PCF) measures the total greenhouse gas emissions generated by a product across all relevant material lifecycle phases. It is an important tool for assessing the overall climate impact of a product and identifying levers to reduce emissions in the value chain.

In 2024, an association of manufacturers, suppliers, and users of formwork and scaffolding systems – which included representation from Doka – was established with the aim of developing a standard for the transparent quantification of product carbon footprints for the formwork and scaffolding sector. The group's newly published agreement on minimum standards is the result of intensive collaboration and cooperation. With this important step, Doka and its market partners are not only setting a new standard in the industry but are also helping establish trans-

parency on greenhouse gas emissions as a standard in the value chain.

“We are delighted to have been able to contribute our many years of experience and our calculation methodology to the working group,” says Julia Weber, Head of Sustainability at Doka. “This industry-wide agreement between leading manufacturers brings us a big step closer to being able to better compare product carbon footprints and create a level playing field within the formwork and scaffolding industry.”

For more than two years, Doka has been providing customers with transparent data on the greenhouse gas emissions of its products.



For more on Doka's commitment to achieving net zero emissions, visit [doka.com](https://www.doka.com)

“When it comes to sustainability, facts count, not gut feelings,” emphasizes Weber. She adds that transparency into the carbon impact of products is also an important pillar of Doka's own sustainability strategy. “We are consistently pursuing our goal of net-zero emissions by 2040, and in the long term we are striving for ever lower-emission product strategies. Product carbon footprint data is already an integral part of the innovation process at Doka.” ■



“When it comes to sustainability, facts count, not gut feelings.”

Julia Weber, Head of Sustainability at Doka

Building Walt

Efficiency Meets Innovation

Streamlined Solutions for a High-Density Residential Landmark



By prioritizing safety, material reliability, and fostering strong client relationships, Doka played a key role in keeping the Walt project on schedule and achieving exceptional results.

Situated at a prime intersection in Dorval, Québec, the Walt project acts as a vital link between commercial and residential zones, seamlessly integrating into the surrounding neighbourhood. Designed to balance the existing residential community with the need for increased density, it adapts to the area's current character while anticipating future growth. Featuring 255 luxury apartments and three commercial units, the development is conveniently located near a major transporta-

tion line, enhancing its accessibility and appeal.

Challenges:

One of the primary challenges for this project was adhering to the demanding seven-day pour cycle required to meet the project's tight timeline. This schedule left no room for delays, necessitating highly efficient construction processes and reliable formwork solutions. Achieving this level of precision was critical to maintaining the overall pro-

ject timeline and ensuring that subsequent construction phases could proceed as planned.

Safety was also a paramount concern throughout the project. With a fast-paced construction schedule, it was crucial to implement systems and processes that not only enhanced efficiency but also prioritized the well-being of workers. Balancing these factors required innovative solutions tailored to the unique demands of the site.

The Facts:

Project: Walt

Location: Dorval, Quebec

Contractor: Suffolk, Cross Country, Martineau Coffrage Inc.

Architect:

MDTO, Atelier D'architecture

Developer: Endeveco, Oktodev

Type of Structure:

Residential Building

Height: 28.04m

Stories: 12 + 2 Underground Levels

Sq. Ft.: 646,000

Products used:

Foundations and pedestals:
Framax S Xlife, KS Columns,
Dokadek 30



Solutions:

Doka's expertise and high-quality equipment made it the ideal partner for this ambitious development. Our Framax S Xlife system provided an efficient solution for constructing the core and shaft walls, with retractable corners saving valuable time and reducing labour requirements. The use of Dokadek 30 panels enhanced safety and efficiency, as they can be assembled from the ground, offering a faster and more secure process.

Additionally, Doka's KS column formwork enabled the casting of various column types without the need for extensive reassembly, further streamlining operations. Doka's focus on safety, material reliability, and its strong client relationship were key factors in ensuring the project remained on schedule while delivering exceptional results. ■

Our Dokadek 30 panels improved safety and efficiency by enabling assembly from the ground, providing a faster and more secure process.



Doka's shoring and edge protection systems are engineered for safety and efficiency, offering reliable support and seamless integration to ensure quick setup, structural stability, and maximum worker protection on every project.

Making the Invisible Visible

Introducing DokaXact Load and Pressure Sensors

Doka has been at the forefront of developing digital innovations to enhance efficiency and safety on construction sites for years.



▪ **DokaXact Pressure Sensor:**

Mounts directly onto the plywood to monitor fresh concrete pressure, allowing precise control of the curing process and preventing exceedance of limit values.

Both sensors feed data into the DokaXact web portal, which offers detailed information and comprehensive documentation.

Versatile Applications Across Construction Projects

DokaXact sensors are compatible with a wide range of concrete construction projects, including residential, non-residential, infrastructure, and energy projects. They are particularly beneficial for projects with critical anchor loads or high single-sided walls or columns, where accurate data is essential for optimizing forming and shoring. ■



With the use of DokaXact for a sanitary sewer shaft in Mississauga, Ontario, pouring time was reduced by 5 hours.

The latest breakthroughs from Doka, DokaXact Load and Pressure sensors, promise precise real-time monitoring throughout the concrete curing process.

Advancing Concrete Pouring with Real-Time Data

The speed at which concrete can be poured is influenced by a number external factors such as weather conditions and the concrete mix. DokaXact Load and Pressure sensors provide real-time data to ensure concrete is poured at the optimal speed, balancing productivity, safety, and quality. These jobsite-tough sensors are waterproof and dustproof, and they connect seamlessly to users' smartphones via Bluetooth.

Simple Installation, Advanced Monitoring

▪ **DokaXact Load Sensor:** Easily attaches to the tie rod, requiring minimal installation effort. The formwork load data is visualized in real time on the user-friendly DokaXact app.



“We aim to support our customers with digitalization in order to optimize construction projects. With data generation and real-time analysis, we are taking a further step towards smart formwork, ensuring greater efficiency and safety in concreting.”

Robert Hauser, CEO



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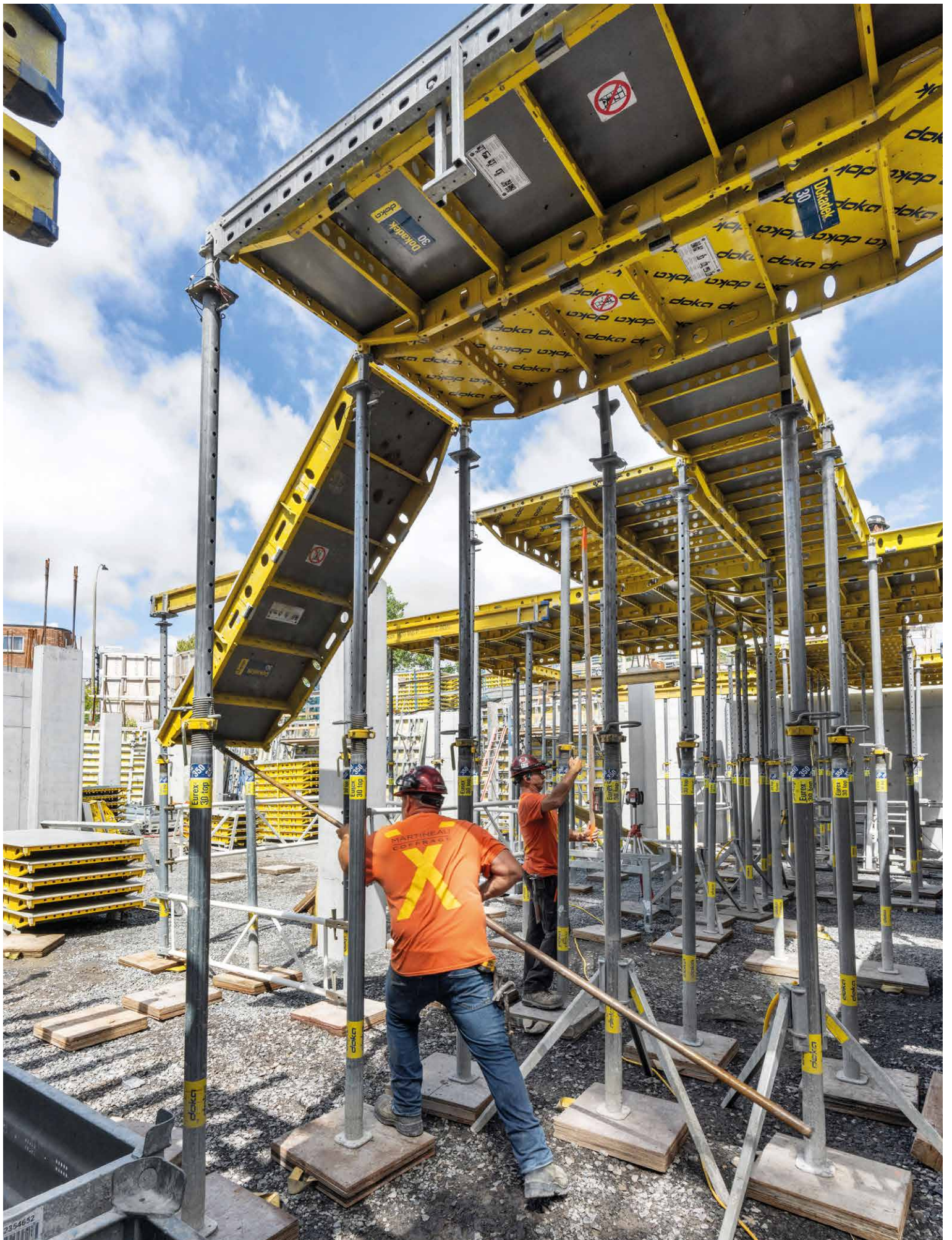


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Building Montreal's Future

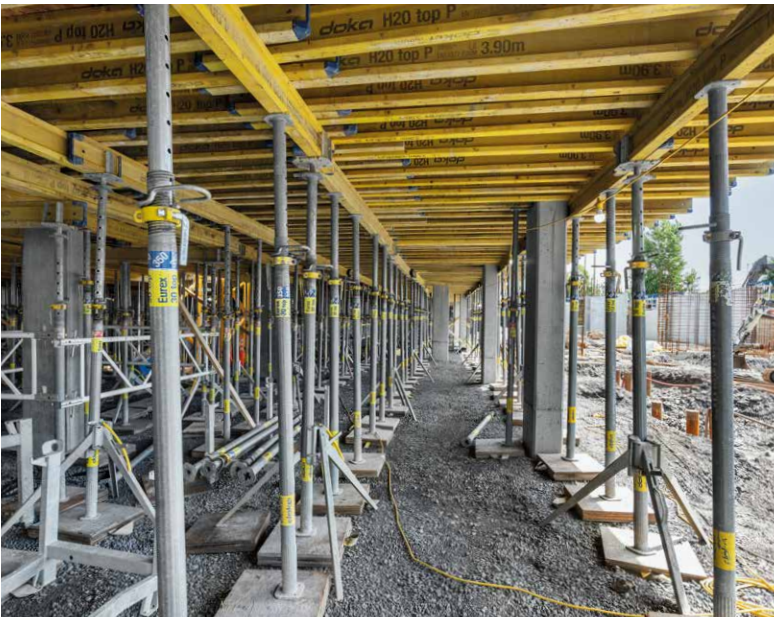
Expertise and Innovation in Residential Construction

In collaboration with Martineau Coffrage, Doka is proud to support the construction of Exal, a new residential building in the heart of Montreal. This project not only embodies architectural excellence but also reflects the vibrant character of the neighbourhoods it serves. Designed with community integration in mind, the development aims to create a diverse community that embraces individuality while fostering connection. The project highlights a commitment to sustainability, efficiency, and innovation in construction, aligning with the evolving urban landscape of Montreal.

Challenges:

The most pressing challenge on this project was the tight construction timeline required to ensure the building is habitable by 2025. Maintaining a cycle time of just four days per floor required precise coordination and efficient processes. Accurate and timely deliveries were critical to keeping the schedule on track, leaving little room for error.

Martineau Coffrage leveraged Doka's Dokadek 30, Framax S Xlife, and KS columns to achieve faster cycle times, increased safety, and enhanced efficiency



The Facts:

Project: Exal

Location: Montréal, Québec

Contractor:

Martineau Coffrage Inc., CONSTRUGEP

Architect: Geiger Huot

Developer: Groupe Mach

Type of Structure: Residential

Height: 18.29m

Stories: 6

Sq. Ft.: 385,000

Products used: Framax S Xlife, KS columns, Dokadek 30 and Dokaflex



Solutions:

Martineau Coffrage's extensive experience with Doka equipment was instrumental in overcoming these challenges. As long-time users of our systems, they have become experts in handling, assembling, and disassembling Doka products, which significantly enhanced operations and reduced manpower needs.

Doka's engineering team also played a vital role in the project's success, providing tailored solutions and technical support at every stage. By utilizing Dokadek 30 and Framax S Xlife formwork, the client was able to achieve their targeted four-day cycle time. Our Framax S Xlife system proved ideal for constructing the core and shaft walls, with retractable corners streamlining the process and saving both time and labour.

The Dokadek 30 system provided additional safety benefits by allowing panels to be assembled from the ground, further increasing efficiency. Doka's KS columns enabled the flexible casting of various column types with minimal reassembly required. Combined with Doka's reliable equipment and consistent service quality, these solutions ensured faster workflows, safer working conditions, and a project that remains on schedule. ■

Doka Canada Expands Product Portfolio with Ringlock Modular Scaffolding

Doka Canada has expanded its product lineup with the introduction of Ringlock modular scaffolding, an efficient and cost-effective system for construction.

By offering formwork and scaffolding systems from a single source, Doka simplifies project coordination and enhances operational efficiency through seamless planning and joint transport. This integrated approach supports customers in meeting tight deadlines and complex construction challenges.

Ringlock scaffolding is a versatile, multipurpose solution known for its rosette and wedge-head locking mechanism, enabling quick and secure assembly with minimal tools. Its modular design accommodates a wide range of applications, including façade scaffolds, stair towers, shoring systems, and more. The system's adaptability allows it to conform to com-

plex structures and irregular geometries, helping to ensure worker safety and accessibility while reducing project costs. Its durable components, such as standards, ledgers, and steel decks, create a stable working platform, even for elevated or intricate work areas.

Set to launch in early 2025 in Western Canada, Ringlock scaffolding prioritizes safety and flexibility. Advanced features like pre-installed guardrails and secure harness points provide continuous fall protection throughout assembly. Mobility options, including castor wheels and crane repositioning, enhance efficiency and adaptability on dynamic job sites. Additionally, the system's ability to rise alongside Doka formwork ensures seamless rebar placement and concrete pouring preparations, optimizing productivity for high-rise and complex projects.

Leading this strategic expansion is Floyd Houle, Doka Canada's Business Development Manager for Scaffolding. With 35 years of industry experience, Floyd plays a critical role in executing Doka's go-to-market scaffolding strategy. Floyd's extensive expertise and leadership will be key to the successful introduction and adoption of Ringlock scaffolding across Canada. His dedication to understanding customer needs ensures Doka's scaffolding solutions deliver both innovation and reliability to the market. ■

Floyd Houle

Business Development Manager – Scaffolding, Western Canada

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“We are thrilled to introduce our scaffolding solutions to the market. At Doka, we’re committed to expanding our service offerings to meet the evolving needs of our clients. Our innovative Ringlock scaffolding system, backed by our expertise and support, will provide enhanced safety, efficiency, and reliability for every project.”

Formwork & Scaffolding

from a single source

Greater efficiency and cost-effectiveness thanks to perfectly matched perfectly coordinated formwork and scaffold systems.



One partner
for multiple solutions



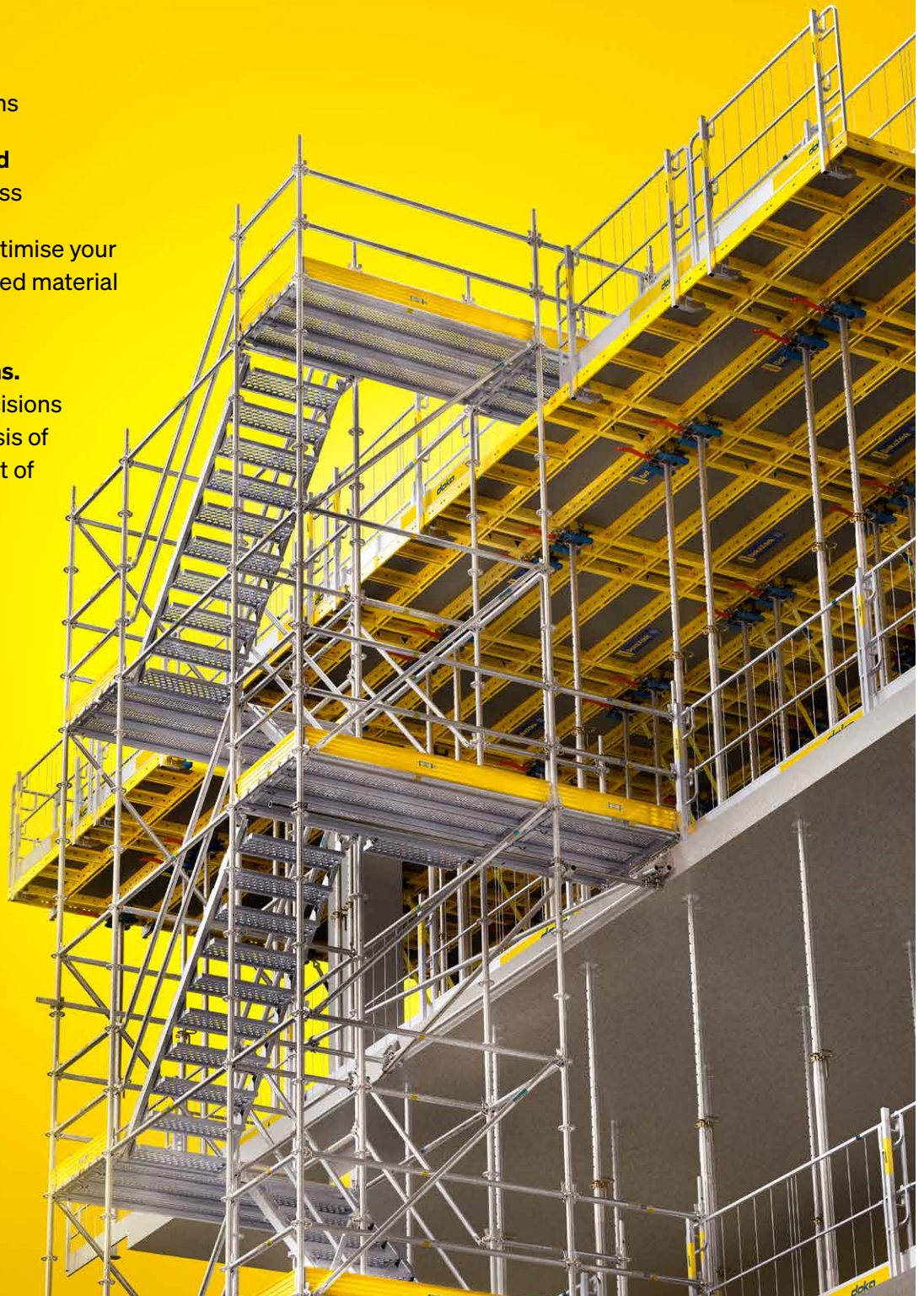
Optimally managed
construction process



Cost reduction. Optimise your
expenses with shared material
transport



Ecological solutions.
Make informed decisions
with detailed analysis of
the carbon footprint of
our products



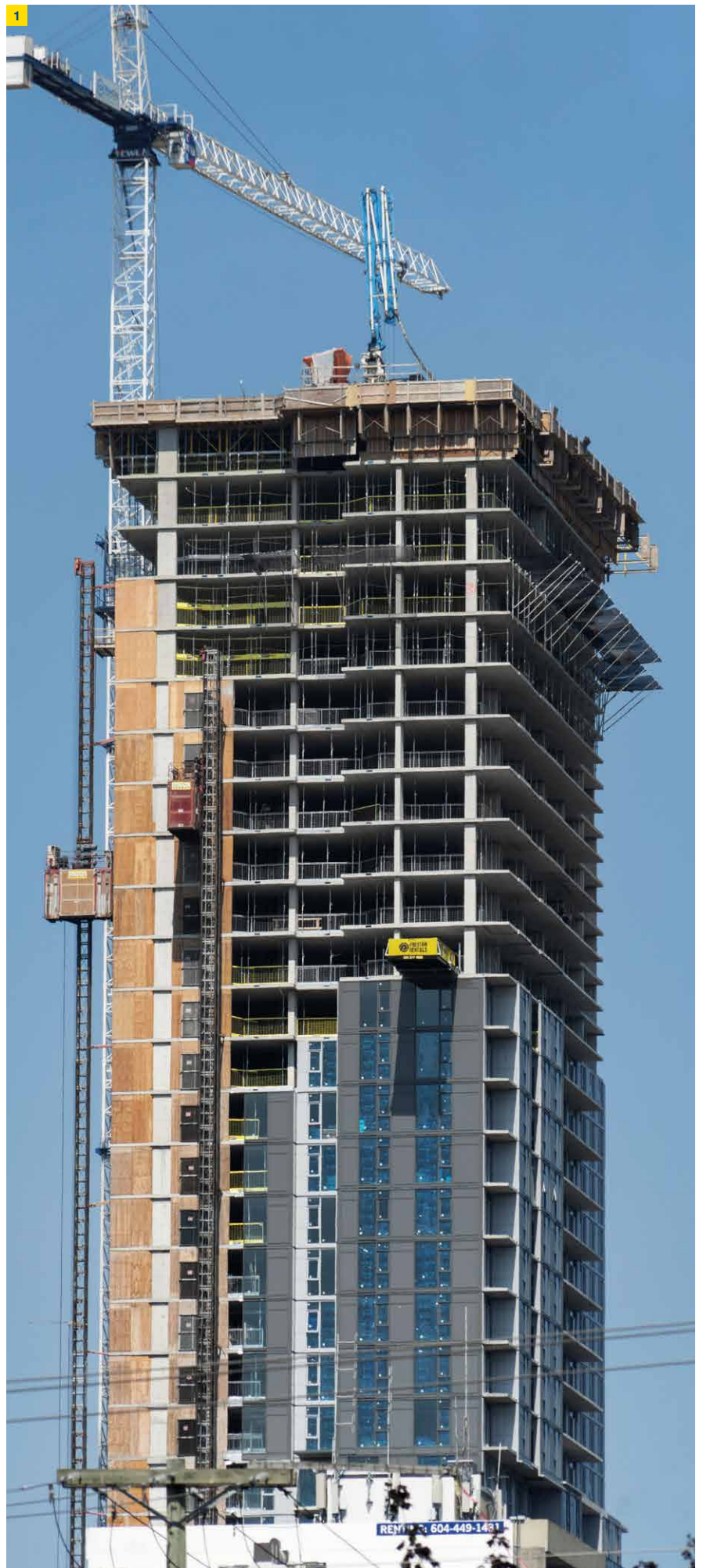
Building in Harmony

With innovative formwork solutions across two towers, Doka supports Century City's vision of blending modern living with expansive green spaces.

Doka and CWL Contracting LTD are working together with leaders in Surrey, British Columbia, to create living spaces that harmonize nature with urban life at the Century City project. With 25 acres of green spaces and four floors of indoor amenities, this development provides the best of both worlds: the vibrancy of urban living and the serenity of nature. Doka has been involved in both towers within this landmark development, supplying formwork solutions for the first tower and now the second, which includes an SCP Top 50 core, trusses, and column forms. Construction on this latest tower began in February 2023, with completion anticipated in January 2025.

Challenges:

The primary challenge on this job site was the need for highly efficient material installation. To maintain the schedule, materials had to be set up swiftly, particularly once construction reached the building's typical floors. Additionally, the project's location presented unique hurdles, such as wind exposure and limited crane availability, making it essential to have a robust solution that could withstand the elements without compromising cycle times.



The Facts:

Project: Century City

Location: Surrey, British Columbia

General Contractor:
CWL Contracting LTD

Architect: ZGF Architects LLP

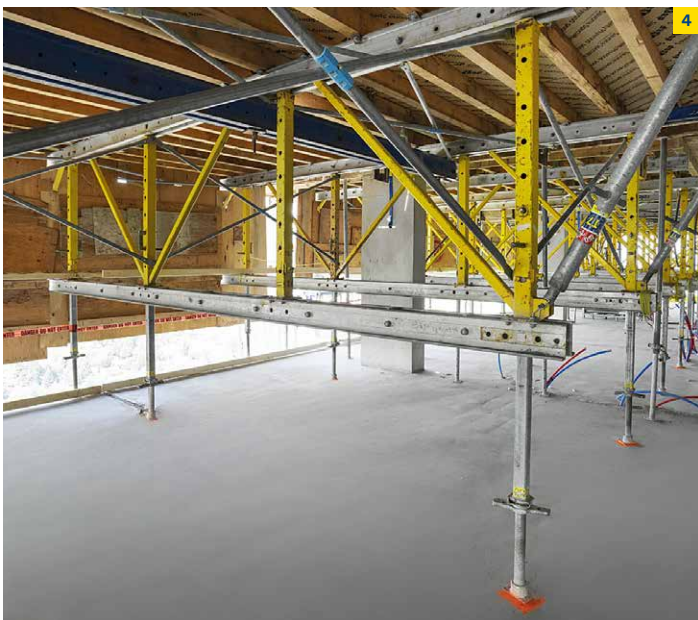
Developer: Century Group

Type of Structure:
Residential High Rise

Stories: 39

Sq. Ft.: 39,800

Products used: Top 50,
Super Climber SCP, Doka Truss,
Framax S Xlife



Solutions:

To address these demands, Doka introduced the Super Climber SCP system, a solution that reduced manpower on vertical days and minimized crane reliance. The SCP system's resilience against high winds ensured that the project could maintain cycle schedules uninterrupted. This approach allowed for consistent progress without concern for wind delays or cycle interruptions, much to the customer's satisfaction.

Doka's technical design, procurement, and pre-assembly teams collaborated closely throughout the project, making sure every phase of the build ran seamlessly. On-site, Doka's field service technicians provided hands-on assistance, ensuring smooth installation and addressing any challenges as they arose. The combined efforts of these teams enabled efficient, reliable support, leaving the customer impressed and eager to use Doka's solutions in future developments. ■

- 1 Doka Canada has played a key role in the construction of both Century City towers, with the latest set for completion in January 2025.
- 2 Doka's Super Climber SCP system ensured consistent progress, reducing manpower and crane reliance while withstanding high winds.
- 3 Our DokaTruss system provides a fast solution for forming and stripping large-area floor formwork, with tables of all sizes prefabricated to meet specific requirements through customizable component combinations.
- 4 By collaborating closely across technical design, procurement, pre-assembly, and field service teams, Doka ensured seamless project execution, providing efficient support throughout.



Honouring a Storied Past While Serving Modern Needs

Combining efficiency with heritage, Doka’s formwork solutions drive progress in New Westminster’s 8th tower at the Brewery District.

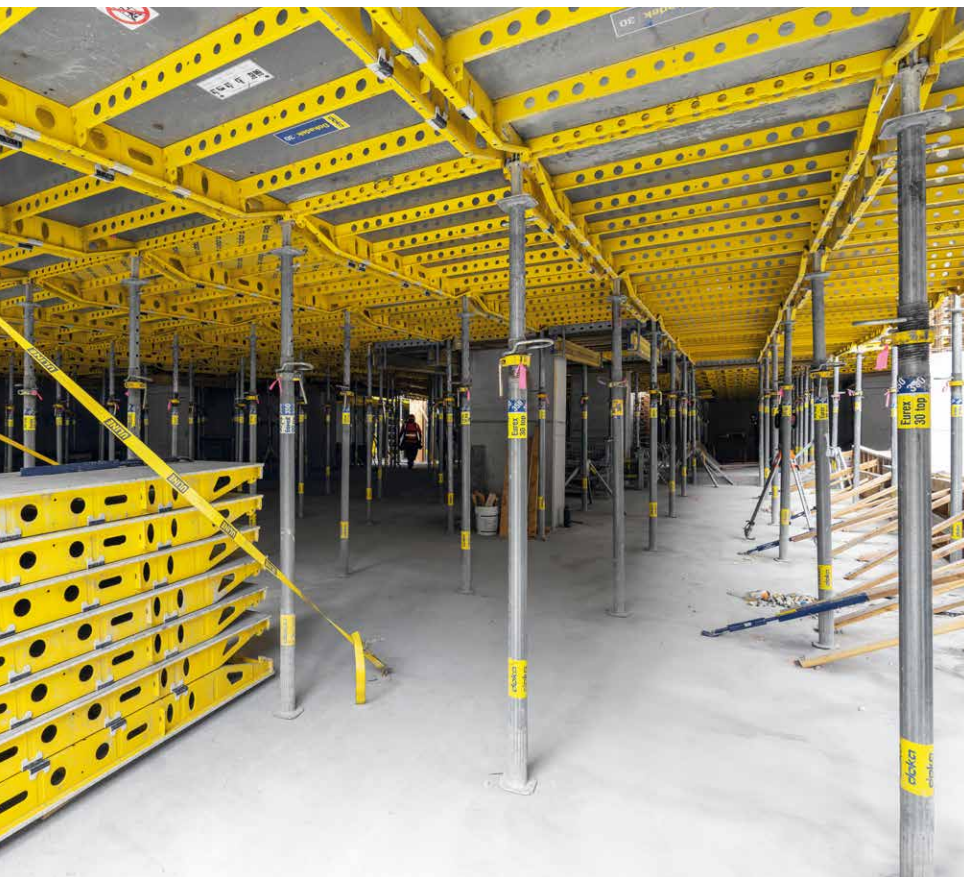
Located in New Westminster’s historic Brewery District, Two Pillars Construction is helping to shape the area with the district’s 8th tower using Doka’s unique formwork solutions. This 32-story combined residential and commercial high-rise is designed to cater to the diverse needs of residents while honouring the community’s rich heritage. To meet the de-

mands of this ambitious project, Doka supplied an array of formwork systems, including Top 50, Dokadek 30, Doka Eurex Props, and Framax SXlife, each selected for their speed, efficiency, and adaptability.

Challenges:

Building in one of British Columbia’s most historic areas introduces unique challenges. The project required solutions that would save labour costs without compromising quality, given the high-rise’s large scale and complex design. Additionally, maintaining a 5-day pouring cycle was crucial to keeping the project on track, especially when reaching the upper floors of the building, where consistency and efficiency were paramount.

- 1 Dokadek 30 panels improved safety and efficiency by allowing for ground-level assembly, enabling a faster and more secure process.
- 2 From the planning stages, Doka’s technical design team played a key role in crafting a tailored approach that optimized system usage and streamlined transitions between floor levels.
- 3 Our Framax SXlife provided the strength and durability required for a highrise of this magnitude, offering reliable performance under heavy loads and ensuring efficient, long-lasting formwork solutions throughout the project.
- 4 This 32-story high-rise, combining residential and commercial spaces, is thoughtfully designed to serve the diverse needs of residents while preserving the community’s rich heritage.



The Facts:

Project: Brewery District

Location: New Westminster, British Columbia

Concrete Contractor: Two Pillars Construction Ltd.

Architect: Chris Dikeakos Architects inc.

Developer: Wesgroup Properties

Type of Structure: Residential & Commercial High Rise

Height: 132.89m

Stories: 32

Sq. Ft.: 589,443

Products used:

Core: Top 50

Parkade: Dokadek 30

Reshoring: Doka Eures Props

Columns: Framax S Xlife



Solutions:

Doka met these challenges with a combination of innovative formwork systems and logistical coordination. The Dokadek 30 system's simplicity and rapid assembly process proved labor-saving, while Framax S Xlife provided the strength and durability required for a high-rise of this magnitude. Together, these systems enabled the team to achieve 5-day cycles, allowing faster progress without sacrificing stability or safety.

To further streamline the build, Doka's technical design team was actively involved from the planning stages, crafting a tailored approach that optimized system usage and simplified transitions between floor levels. This support reduced labour intensity and accelerated construction speed. Meanwhile, Doka's dedicated shipping services ensured timely deliveries of formwork materials, precisely scheduled to align with the project's progress. ■



A Milestone in Strategic Growth as Doka Acquires MFE Formwork Technology to Strengthen Its Position in the Pacific Region

MFE Formwork Technology is now part of Doka

In February, Doka announced the acquisition of Malaysia-based MFE Formwork Technology, a market leader in monolithic aluminum formwork.

This exciting step marks a significant milestone in Doka's strategic growth plan that also strengthens its position in the Pacific region – an important growth market alongside North America. For the formwork industry, this integration means more innovative solutions from a single source.

Using monolithic formwork allows elements such as slabs and walls to be formed in a single pour, resulting in a seamless, jointless structure. This technique is particularly suited to projects with less complex and repetitive geometric requirements.

With more than 2,200 team members, MFE Formwork Technology has established itself as a reliable partner for efficient construction projects and sets standards in the construction industry. With this acquisition, MFE gains access to Doka's extensive global sales network which is active in over 60 countries with more than 180 locations. ■

A Modern Living Experience

Creating a harmonious blend of luxury living and community spirit in Coquitlam's The Band project.

The Band, located in Coquitlam, British Columbia, represents another collaboration between Doka and our partners Two Pillars Construction Ltd.. The project features two landmark towers: a 19-story rental tower and a 47-story residential tower comprising condos and townhomes, all designed with modern intention and sophistication. With resort-inspired amenities, the development effortlessly combines an active lifestyle with serene tranquility. For this project, Doka supplied our Top 50, Dokadek 30, Doka Eurex Props, and Framax S Xlife systems.

Challenges:

One of the primary challenges for The Band project was the need for solutions that would effectively reduce labour costs while ensuring the construction schedule was maintained. Given the complexity of the dual towers, delivering consistent performance as the project progressed was essential to avoid delays, especially during the critical upper-floor phases.

Doka's Dokadek 30 and Framax S Xlife systems enabled efficient workflows, rapid construction cycles, and ensured safety and stability on the Two Pillars project.



The Facts:

Project: The Band

Location: Coquitlam, British Columbia

Concrete Contractor: Two Pillars Construction Ltd.

Architect: Boniface Oleksiur Politano Architects

Developer: Townline

Type of Structure: Residential

Height: 145.75m

Stories: 19 and 47

Products used:

Core: Top 50

Parkade: Dokadek 30

Reshoring: Doka Eurex Props

Columns: Framax S Xlife



Solutions:

To address these challenges, Doka implemented its Dokadek 30 and Framax S Xlife systems, both modular solutions that are quick and easy to use. These systems provided the necessary efficiency to support rapid construction cycles, enabling the Two Pillars project team to streamline workflows and maintain high standards of safety and stability throughout the building process.

Doka's technical design services played a key role in optimizing the construction approach, focusing on reducing labour costs and maintaining the pour schedule by tailoring system usage to the project's specific requirements. Additionally, Doka's logistics coordination ensured timely delivery of materials, aligning shipments with the project's progress to minimize any potential delays. This careful management of resources allowed the construction team to maintain a consistent workflow and avoid interruptions. ■



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