Since 1976, BPDL has been an industry-leading partner dedicated to ensuring the end-to-end success of large-scale precast concrete-based projects throughout North America. Thanks to the soundness of BPDL’s expertise, architects, contractors and developers know they can rely on tailor-made solutions that fully comply with the most stringent quality standards. Our people go out of their way to help clients benefit from every technical advantage offered by in-plant manufactured precast concrete. Total Precast clearly stands out by far as one of the options with the most advantages.

The name “Total Precast” refers to a construction system approach where architectural & structural precast and prestressed concrete components can be combined to create an entire building.
Total Precast provides a very unique and versatile approach to building, including precast columns and beams used in conjunction with panelized cladding or load bearing precast walls and double tee or hollow core flooring.

At BPDL, it is clear that having easy access to virtually unlimited options helps our experts to fully grasp the individual needs of each client and pinpoint the best solution. The construction project can therefore be achieved in a reasonable, time-saving and cost-effective manner that will benefit every stakeholder involved: developers, architects, engineers and end-users alike.

434 parking spaces
162,000 ft²
(can be raised to 235,000 ft²)
33 days for erection
33 columns
55 horizontal panels
36 light walls
16 load bearing walls
12 beams
178 double tee slabs
121 architectural walls

Precast concrete components can be erected during winter, regardless of the weather conditions; sound assets that help to respect tight schedules.

Precast’s inherent fire resistance eliminates the time-consuming fireproofing required for a steel structure.

Fabrication of precast elements during permitting and/or site preparation saves time.

Total Precast is the high-speed installation system contractors seek to erect a building’s walls, floors and roof in record time. Hence, the contractor can enclose the building quickly, giving interior trades faster access.

Total Precast combines quick building with rigorous control over time and costs; two solid assets that are highly valued by industry players looking to keep projects on the right track.

Developers who chose Total Precast say the system can shed 20% to 50% off the timetable of a project using steel structures, and provides even greater time savings when compared to cast-in-place concrete construction.

Only one supply source for the entire shell = Only one contract and BPDL’s Total Efficiency Promise.
The designers chose in-plant manufactured prestressed concrete slab floors. This approach affords numerous advantages, including: the design of open-space living areas, top-of-the-line soundproofing between floors and outstanding fireproofing performance. With remarkable precision and lightning-fast installation, the slabs easily shape the floors one-by-one. As soon as the first floors have been erected, all electrical, plumbing and HVAC work may begin.

Precast concrete was also used in the design of staircases, thus eliminating the need for on-site casting. As a result, the site is always clean and without debris: two significant advantages contributing to worker safety throughout the building process.

All windows and glass plates were fitted into the components at the plant before delivery to the site. This way of organizing construction work relies on a solid foundation: execution is carried out in a controlled environment that can in no way be affected by weather conditions of any sort, and allows eliminating certain trades from the construction site.

Concrete and Architecture

The impressive beauty of Le Saint-Jude’s architecture lies in the complexity of its curvy lines and wide variety of finishes. The building’s exterior walls feature hammered-finish on the balconies, beige sandblasted concrete walls for the apartments and mosaic work on the ground floor. The latter was achieved by integrating small pieces of cast-stone into large concrete wall sections with false joints. The uniqueness of the overall appearance of the finish was achieved using different sandblasting pressures.

Certain concrete components that make up the interior halls were kept as-cast. Our designers turned to light sandblasting to create a unique finish and ensure one-of-a-kind architectural effects. This virtually maintenance-free solution eliminates expensive finishing costs.

Total Precast is the ideal solution to residential building projects; hallway load-bearing and exterior walls support the entire building. Each panel used to erect the building is designed as a 12 inches thick concrete sandwich wall.
Le Saint-Jude

95 days of installation
1,770 panels
695 slabs
115,173 ft² of floor space

220 exterior walls
224 balconies
25 beams
6 floors
126 units
177,563 ft³ of precast concrete
16,975 lbs = average panel weight

236 columns
12 staircases
224 balconies
25 beams
695 slabs

IN FIGURES
“Relying on Total Precast concrete components for this project gave our team the freedom to integrate complex architectural precast concrete elements that we had never experimented with before. We took great pleasure in developing the plans with the manufacturer. This way, we made sure the final result would meet our expectations in terms of quality and functionality. Total Precast provides unheard of precision, efficiency and is perfectly in line with worldwide green building principles.”

- Eric Painchaud, EPA Architect

“Each precast concrete wall makes up a seismic force and wind absorbance system. Distributing the forces over numerous components allows using a limited number of connections between panels, thus permitting industry-leading installation speeds.”

- Simon Lacroix, Eng. M.Sc.A.

“Designed by our technical team

Hot-dipped galvanizing done by BPDL to ensure quality and respect schedules

Eliminates thermal bridges

ANCHOR SYSTEMS

Anchoring system design is adapted to each project

- PCI
- CORGI
- CSA
- International Organization for Standardization

anchor systems design is adapted to each project

anchoring system design is adapted to each project
It is only fair to state that precast concrete plays a first-rate role in sustainable development, since it significantly contributes toward gaining the points required to achieve LEED(*) certification. Great thermal mass, recyclability, reusability, and minimal waste generation during the prefabrication process and installation on construction sites; these are but a few of the qualities architects and developers are looking for when selecting a construction system. Choosing to integrate Total Precast into a project, right from the early design stages, is among the wisest decisions design experts can make. Doing so enables to take full advantage of the innovative character of precast concrete. In short, when compared to other building systems, precast concrete is the high-quality, long-lasting solution needed to achieve the optimal service life of any building.

(*) Potential contribution of 33 points toward LEED Certification® Canada NC

**SHELL PERFORMANCE**
The thermal performance of precast concrete insulated walls is among the industry’s best.

**TOTALLY GREEN**

Due to its density, concrete has the capacity to absorb and store large amounts of heat. This thermal mass enables concrete to react very slowly to outside temperature variations. This characteristic reduces peak heating & cooling loads and even delays them for several hours.

**EXCELLENT FIREPROOFING PERFORMANCE**
Total Precast offers unrivalled advantages, such as: resistance to seismic disturbances and strong winds, soundproofing, durability and minimum maintenance.

**REDUCTION OF HVAC EQUIPMENT SIZE**

**OPTIMIZATION OF ENERGY PERFORMANCE (LEED)**

**COMFORT AND SAFETY**
Insulated concrete sandwich walls can hold back fire for up to 4 hours.
With building costs continuously on the rise, contractors and designers must work hand-in-hand to find cost-effective solutions that enable them to attain set objectives, despite ever-decreasing delivery schedules.

Equally important, sustainable development must be the focal point of their thinking process.

To this end, Total Precast fully meets these requirements. Observable results can be seen as soon as the construction of a building begins and throughout its service life.

Total Precast
A sensible choice for today and tomorrow!