

PROJECT PROFILE

Calgary Courts Centre

Location

601 – 5th Street SW, Calgary, Alberta, Canada

Owner

Government of Alberta

Contractor

CANA Management Ltd.

Engineer

Stantec Consulting Ltd.

Architect

Kasian Architecture Interior Design and Planning Ltd.

Concrete Supplier

Inland Concrete Ltd., Calgary

Product Used - Columns

HIGH-FLOW™ Concrete

Total Metres - Columns

2156 m³

Project Manager

Fabrizio Carinelli, P. Eng.
CANA Management Ltd.



PROJECT BACKGROUND

Situated in downtown Calgary at 601 – 5th Street SW, the Calgary Courts Centre is one of the most distinctive courthouses in North America. This unique structure was designed to encompass transparency, public space, sustainability, circulation and flexibility.

The 129 metre tower consists of two reinforced glass and concrete high rise buildings, one 24 stories and the other 20 stories, both connected by a 26 storey atrium – one of the largest of its kind in North America. The building has three underground levels, two of which are for secure private parking and one for prisoner holding.

As a result of the heavy structural requirements of the building, CANA Management Ltd. investigated the use of a low viscosity concrete mix. Inland Concrete was able to meet the project demands with the HIGH-FLOW™ concrete mix, a self-consolidating design ideal for the highly reinforced vertical columns.

In addition to the performance aspects of HIGH-FLOW™, Inland Concrete contributed to the project goal of obtaining the desired Leadership in Energy and Environmental Design (LEED®) Silver certification by optimizing cement contents utilizing fly-ash, a supplementary cementing material and a post industrial waste product.

The project is the recipient of the 2007 Award of Excellence for Design and Construction in Concrete from the American Concrete Institute – Alberta Chapter.

CLIENT TESTIMONIAL

“CANA used Inland Concrete’s HIGH-FLOW™ self-consolidating concrete for all of the columns on the Calgary Courts Centre. With the fast track schedule, this decision proved to be advantageous, as the product has exceeded our expectations. The high fluidity enabled efficient placing of the concrete, eliminating the requirement for vibration. This not only resulted in increased productivity, but also a very consistent and high quality finish.”

Fabrizio Carinelli, P.Eng., Project Manager
CANA Management Ltd.