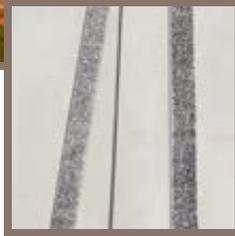


# INSTITUTIONAL BUILDING

## TORONTO PAN AM SPORTS CENTRE

*University of Toronto*



## PROJECT CREDITS

### OWNERS

City of Toronto / University of Toronto

### ARCHITECT OF RECORD

NORR Limited

### ENGINEER OF RECORD

Parson Brinckerhoff Halsall Inc.

### GENERAL CONTRACTOR

PCL Constructors Canada Inc.

### MATERIAL SUPPLIERS

- Coreslab Structures (ONT) Inc.
- RES Precast Inc.
- St Marys CBM

### ADDITIONAL PARTICIPANTS

- AGF-Albrecht
- Aluma Systems Inc.
- BASF Canada Inc.
- Carpenters Local 27
- Euclid Canada
- Ironworkers Local 721
- LIUNA Local 506
- National Concrete Accessories
- Smith + Anderson
- Structform International Limited
- Structural Floor Finishing

## PROJECT FACTS

### LOCATION

Toronto, Ontario

### CONSTRUCTION TIME

September 2012 to July 15, 2015

### AREA

32,533 m<sup>2</sup>

### PROGRAMME

- 6,000 seat aquatics arena with two Olympic size swimming pools and a diving cylinder
- 3,000 seat field house

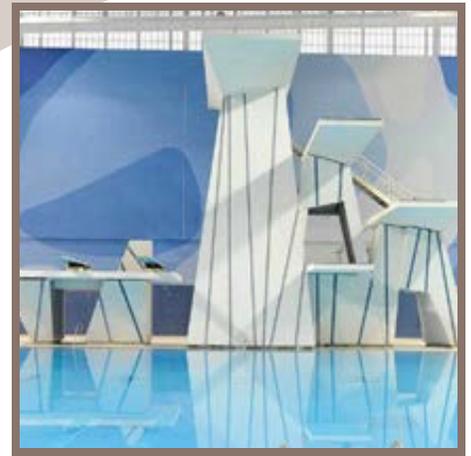
### COST OF THE PRECAST

\$1,020,000 for exterior and dive tower precast

### PRECAST CONCRETE COMPONENTS

- Precast rainscreen panels
- Dive tower panels and the dive platforms
- Precast bleacher planks
- 256 insulated precast sandwich wall panels with a blend of light-sandblasted and exposed aggregate finishes
- 42 panels and platforms for the dive towers (these panels had a blend of light-sandblasted finish and field laid tiles)





## *Toronto Pan Am Sports Centre*

The Sports Centre, is an athletic game facility, a local community centre, an athletic facility for the local University, and a high performance training centre for elite athletes. It houses (2) 50 meter pools, a 10 meter dive tank, a multi-sport field house, indoor running track, elite sport training and testing facility, teaching studios, rock climbing wall as well as associated fully accessible change and support facilities.

The design features a bold sloping custom precast panel façade that plays against the counter slope of the main pool and field house metal clad volumes to the north and defines the edge of a new civic plaza to the south. This dynamic composition is a signature for the building, extends into the composition of the surrounding site and is carried into the interior of the building. This overall approach is grounded in a thematic and formal integration between landscape and architecture, with emphasis on dynamic masses, patterning and plantings that evoke the intensity and excitement of the centre's program as well as the geology and topography of the southern Ontario region.

The custom concrete pattern is a combination of a lightly sandblasted field with bands of exposed aggregate and reveals that create a pattern reminiscent of fissures and veins in a rock formation. Within the building the precast concrete dive tower replicates this effect but the exposed aggregate is replaced with glass ceramic tiles that are like quartz veins sparkling in the background.

A signature material in the project the precast panels provide a solid and enduring reading to the building that connects back to the original concrete University buildings. It wraps around the north and south ends of the complex in a sloping manner that creates the iconic landscape inspired silhouette. The system is a fully pressure equalized rain screen system that is extremely durable and robust. The siding extends above the roof plain in a number of locations to provide parapet screening around the cooling tower and generator units.

On the interior the dive tower is a sculptural and iconic element that is an extension of the building landform concept. It is a solid and stable platform for both the platform diving as well as the lower spring boards. It meets the extremely exact dimensional performance requirements of international competitive diving facilities and weighs over 50,000 lbs. It required that a section of the roof be left open to facilitate installation.

Precast concrete was also used for the creation of racket platform along the pool side for the 2,300 permanent spectator seats.

