



Sprung
Since 1887



Sprung Performance Pool Enclosures



Innovative Building Solutions

Engineered & Manufactured by Sprung Instant Structures

Centennial Aquatic Centre

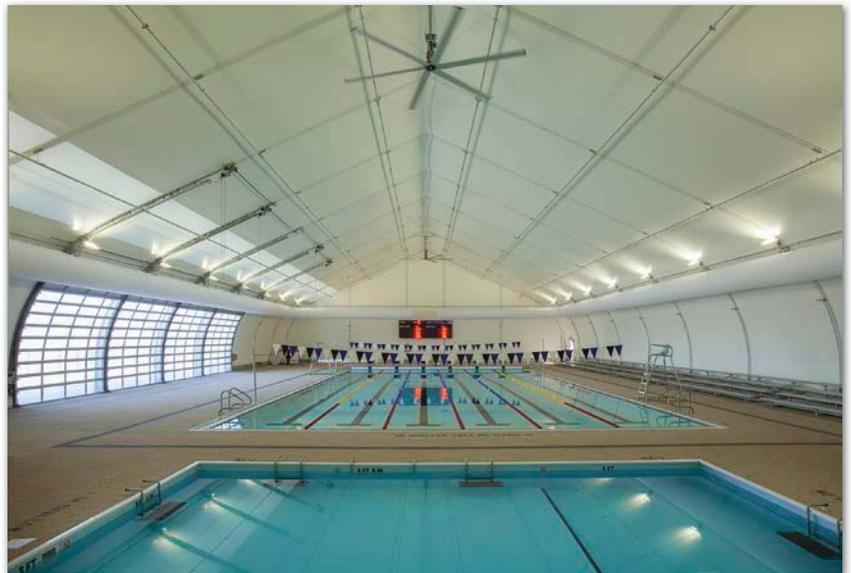
Collingwood, Ontario
Pool Enclosure



Project Report:

The outdoor pool in Collingwood Ontario was built in 1967, and in 2013, was enclosed with a new high-tech Sprung structure, allowing it to be used year-round. An additional accessible warm-water pool was also added to enhance the facility.

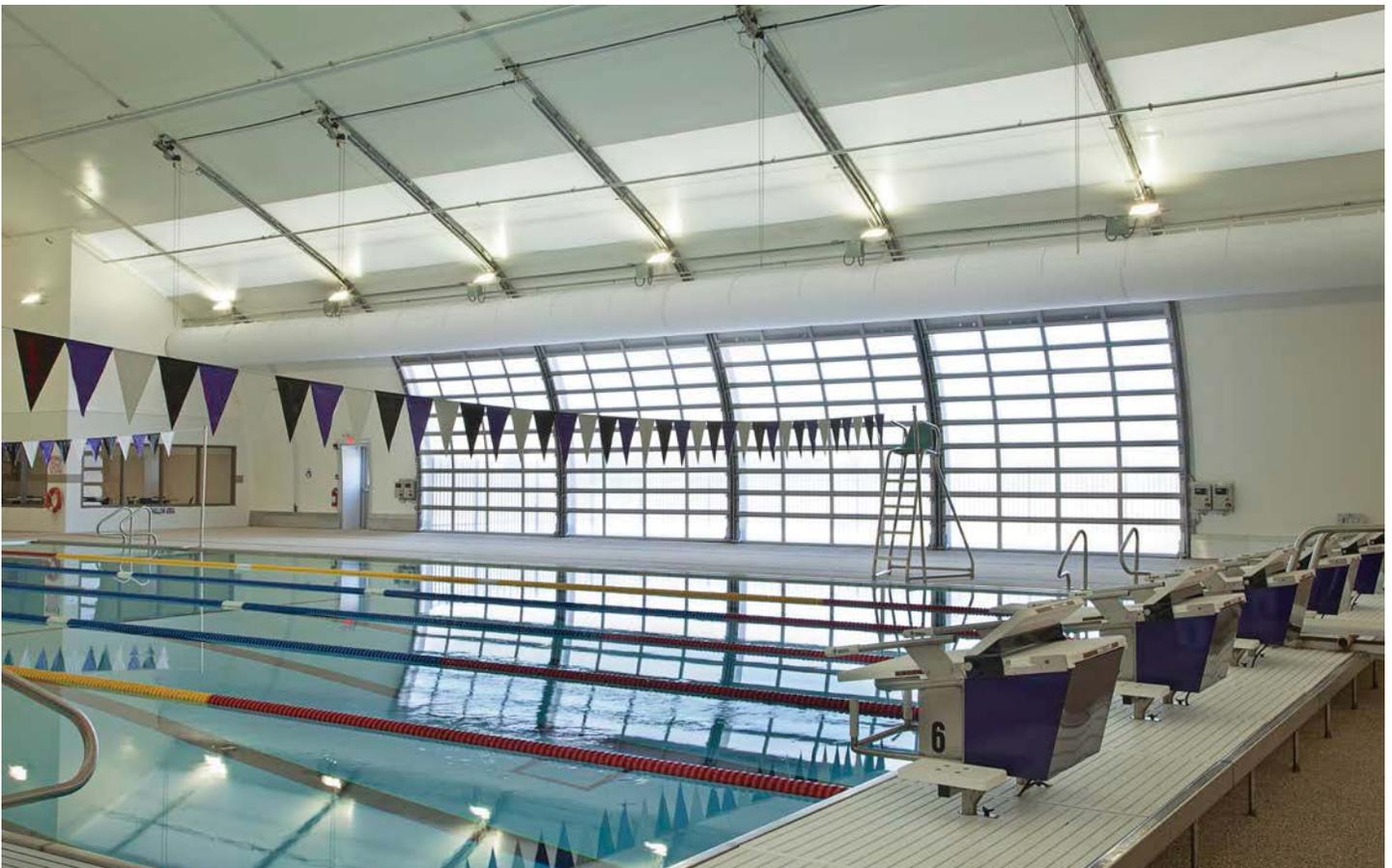
The pool is 25m long by 12m wide, with a water capacity of 540,000 litres. The Aquatic Centre is located in Heritage Park at the corner of Third and Spruce Street. (451 Third Street). It is operated by the Town of Collingwood Parks, Recreation and Culture Department.



A 90' x 210' Sprung structure was erected in a 6 month timeframe and features a specially designed pool insulation system that performs extremely well in high humidity environments, while translucent daylight panels and sunshine doors add natural daylight to enhance the swimming experience.

Features of the new facility include:

- New accessible warm-water pool
- Viewing room that overlooks both pools
- Interior spectator seating for 250 people
- Multi-purpose room
- Family change room
- Daylighting roof panels to maximize natural light
- Four insulated doors to allow for an open environment in favourable weather
- HVAC system throughout the facility



Mayor's Message – Centennial Aquatic Centre

The Town of Collingwood is growing, and as a municipality we need to ensure that our infrastructure and facilities meet the needs of our current and future residents, at a cost we can afford.

In our community we had an outdoor, summer-only swimming pool, however we have heard from our residents and visitors that a four-season aquatic facility was needed.



Collingwood's new, four-season Centennial Aquatic Centre – A Sprung Structure!

Sprung Structures were a great solution: a unique, patented, energy efficient, ready to use structure to house our outdoor pool, allowing us to turn it into a four-season aquatic facility. We were also able to include a warm-water pool to replace a previous one that had been decommissioned.

Day-lighting roof panels to maximize natural light and eight insulated doors to allow for an open environment in favourable weather ensure the building is energy efficient. The positive aspects of an outdoor pool will not be lost. Our users have told us they are thrilled at the fact that they can continue their aquatic fitness programs throughout the winter!

The Sprung Company has provided Collingwood with a showcase, state-of-the-art facility, which is the envy of many communities.

A handwritten signature in black ink that reads "Sandra Cooper". The signature is written in a cursive, flowing style.

Mayor Sandra Cooper
Town of Collingwood



TOLL FREE 1-800-528-9899
OR (402) 242-3371 www.sprung.com

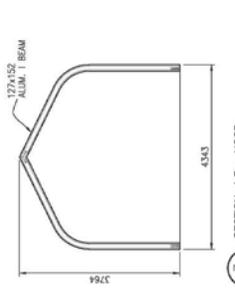
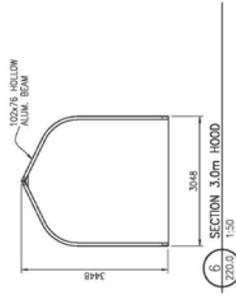
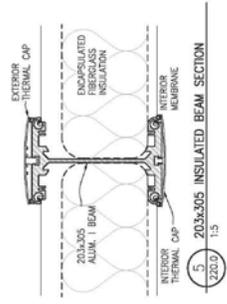
GENERAL NOTES:
1. PERSONNEL DOORS C/W HOODS.
2. STRUCTURE TO BE INSULATED WITH FIBERGLASS BATT INSULATION C/W INNER LINER, TO SKYLIGHT LEVEL ONLY.
3. INNER & OUTER MEMBRANE TO BE 100% POLYESTER CONCRETE USING ALUM. FLAT BAK.
4. STRUCTURE MEMBRANE MATS, MARSHALL ASTM E84, IBC 31-1, SPECIFICATIONS 1502.
5. THIS STRUCTURE IS DESIGNED TO SNOW. THE PERMETER OF THE STRUCTURE SHOULD BE KEPT CLEAR.
6. WHEN DESIGNING A HEATING, VENTILATION & AIR CONDITIONING SYSTEM FOR ANY TYPE OF BUILDING, IT IS IMPORTANT TO TAKE INTO ACCOUNT THE FACTS THAT MORE AIR THAN IS BEING EXHAUSTED AT ANY GIVEN TIME, IS BEING SUPPLIED TO THE BUILDING. CONVERSELY, IF THE STRUCTURE IS TO BE WITHIN DIFFICULT TO OPEN DOORS AND MUST BE KEPT CLEAR OF THE STRUCTURE, IT WILL BE KEPT CLEAR.
7. ALL INTERIOR WALLS & PARTS OF CEILING TO BE FREE STANDING & INDEPENDENT OF SPRUNG STRUCTURE.
DESIGN LOADS
STRUCTURE LOADING: COLLINGWOOD ON WIND PRESSURE (600) 0.38 kPa
GROUND SNOW LOAD: 5' - 0.4 kPa

BLT CONSTRUCTION
TOWN OF COLLINGWOOD
27.4m x 64.0m
SWIMMING POOL

DATE: 06/24/2012
SCALE: AS NOTED
DRAWING # P12-220.0

SIGNATURE SERIES

1. 10/24/12 MORE DAYLIGHT & FE UPRIGHT
2. 10/24/12 ADD WINDSCOT
3. 06/24/12 ADD SKYLIGHT PANEL & HOODS
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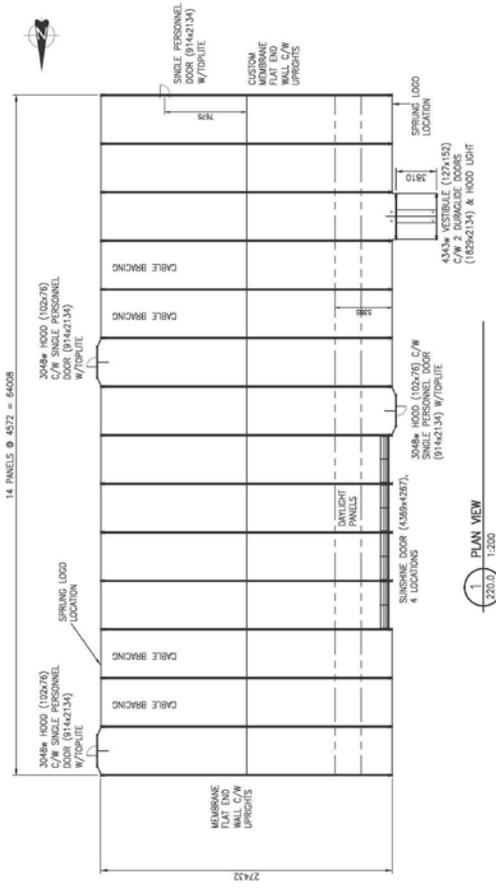


DRAWING APPROVAL

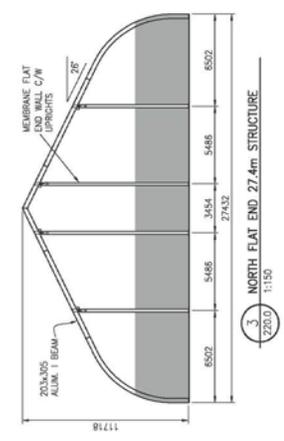
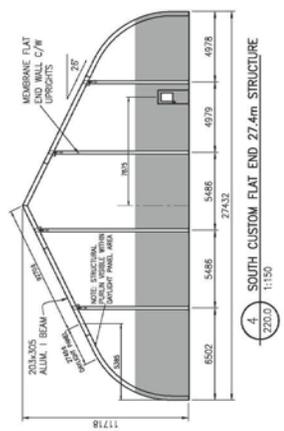
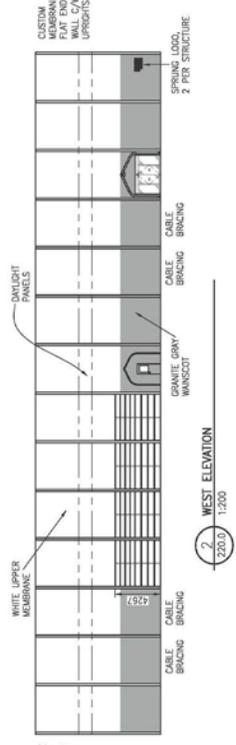
Signature _____
Print Name _____
Date: _____

Confirmation of design loads at site per the local building dept.
WIND: g50 _____ kPa
SNOW: Ss _____ kPa
SNOW: Sf _____ kPa

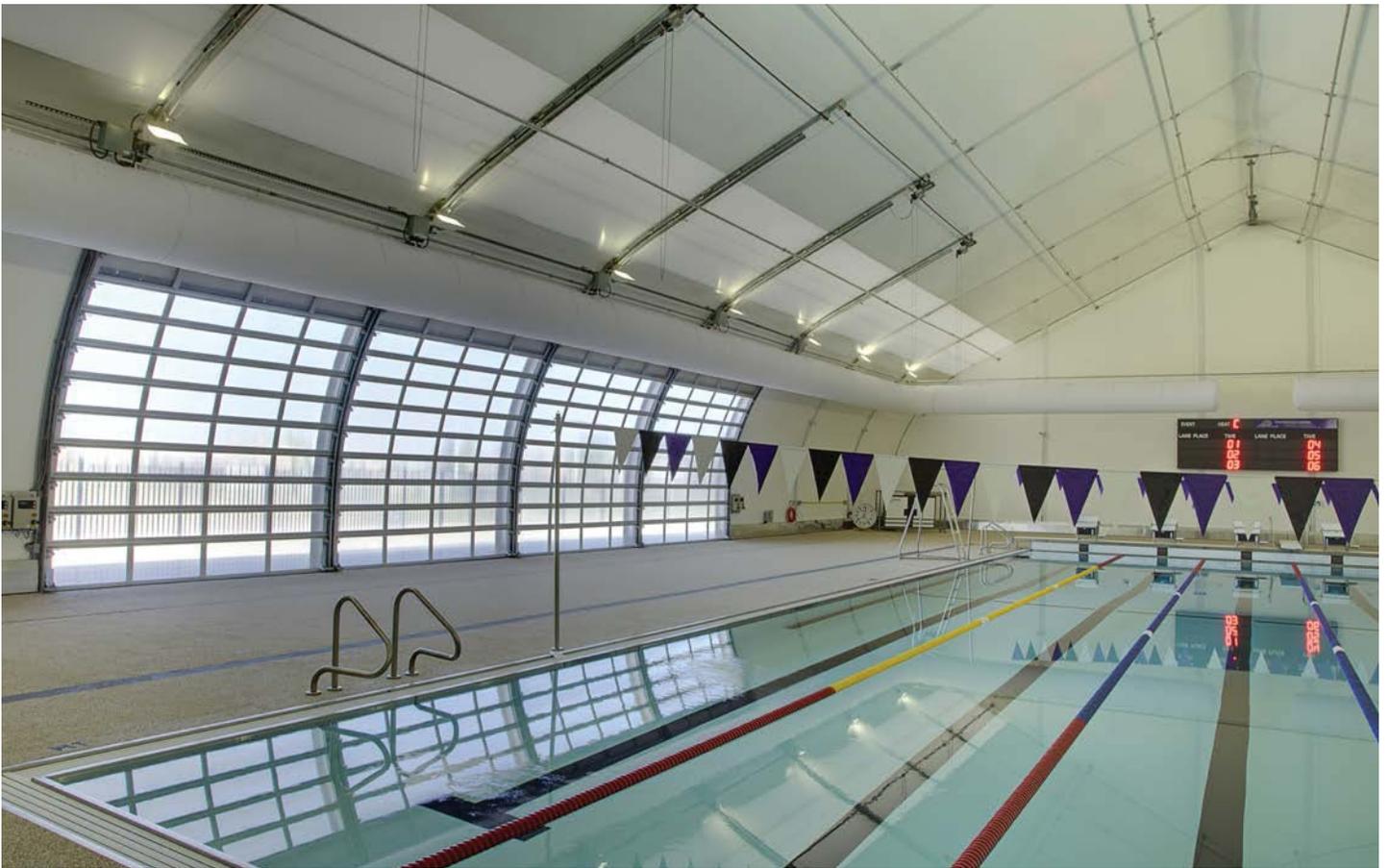
Initial _____



COLORS ON THESE ELEVATIONS MAY VARY SIGNIFICANTLY DEPENDING ON THE TYPE OF MATERIALS USED. REFER TO MEMBRANE SAMPLES FOR ACTUAL COLORS.









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Kearns Oquirrh Park Fitness Center 50 Meter Olympic Sized Pool, Utah



Project Report:

Kearns Oquirrh Park Fitness Center Olympic Sized 50 Meter Pool Enclosure

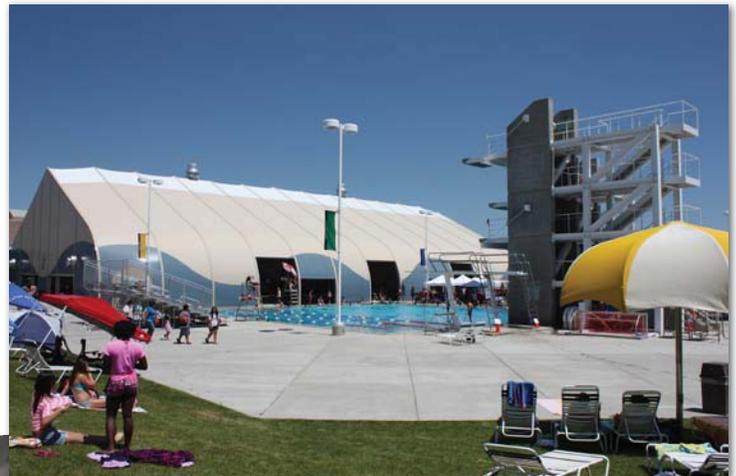
The new 23,400 square foot state of the art swim facility highlights seven opal translucent electrically operated sunshine doors and four translucent Kalwall door systems that open upward to allow an increased level of natural day lighting and cross ventilation. The combination of the Kalwall and Sunshine door openings and natural sky lighting creates an outdoor feel without sun and inclement weather. The structure also features a R-30 encapsulated Johns Manville formaldehyde



free insulation system. The structure features a Salem blue Kynar membrane wave pattern on the bottom and tan Dupont Tedlar Membrane complete with a custom skylight, seating for over 1,000, connector to existing facility, state of the art sound system and full color, 22mm, video capable 8' x 16' scoreboard. Kearns was extremely impressed with the options that could be integrated into a Sprung. The structure includes a sprinkler system and has a custom inverted lighting package that utilizes the highly reflective and tensioned inner liner to uniquely diffuse the lighting, eliminating blind spots during polo meets that would occur in traditional buildings from the past.

The Structure was erected over a completely full Olympic sized 50 meter pool. This pool has racing lanes and is also being utilized by local schools to house polo championships that in the past had to be out of state to avoid the weather.

The existing facilities and pool presented unique design challenges that were taken head on by everyone that was involved on the project. Sprung worked closely with Kearns to help design a year round facility that would give the feel of a conventional facility with the atmosphere of an indoor/outdoor pool. This was a huge factor in why Kearns chose Sprung as the product of choice. During the design process, Sprung introduced two solutions to help the client achieve this feel by introducing the translucent Sunshine doors and the Kalwall Architectural Panels that raise up allowing the visitors to walk in or out. One of the challenges that Sprung encountered during the design phase was proximity to other buildings and pools. Sprung's design department developed a



28-Jul
9:30

solution to help meet some of the issues by transitioning from a 120' width to a 110' width on both flat ends to help get closer to the other structures.

One extremely valuable benefit Sprung was able to offer was the speed in which the building process could be finished. This allowed Kearns to be operational for their summer season. During the procurement phase it was determined that Sprung was not the lowest cost solution, however, with the extensive guarantees, quality of construction, natural sky lighting, high insulated values, energy efficient design, speed of erection, engineering, virtually maintenance free and high tech appearance was added value that could not be overlooked, and selected Sprung as the preferred solution.





Salem Blue



Desert Sand

*Kearns Oquirrh Park Fitness Center
Pool Enclosure*



Rendering of Sprung structure (top)

Finished Sprung structure (below)





*Kearns Oquirrh Park Fitness Center
Pool Enclosure*



Rendering of Sprung structure (top)

Finished Sprung structure (below)





