



SITECAST CONSTRUCTION EARNS A "GOLD STAR" AT SOUTH MARCH PUBLIC SCHOOL

CLIENT

Ottawa Carleton District School Board (OCDSB)

GENERAL CONTRACTOR

McDonald Brothers Construction Inc.

DESIGN TEAM

- N45 Architecture Inc.
- Cunliffe & Associates
- LJB

PROJECT

South March Public School addition (Kanata, ON)

DETAILS

- 21,722 f²
- Insulated load bearing concrete tilt-up panels
- Two-storey addition
- 13 new classrooms
- Two new activity rooms

BENEFITS

- **COST SAVINGS** from speed of construction and energy efficiency
- **ENERGY SAVINGS** gained through thermal massing properties of concrete
- **DURABILITY** of wall assembly composed of dual layer concrete panels
- **REFINED APPEARANCE** with the help of a "weathered limestone" formliner and stained concrete



Dollars and cents is a typical driver in the construction industry, or any industry for that matter. Certainly it was a main consideration for Miro Vala, the Supervisor Design & Construction Services, at the Ottawa Carleton District School board. When planning a two-storey addition for South March Public School in Kanata ON, he needed cost effective construction practices and was willing to look beyond the conventional wall assemblies used by school boards.



SiteCast and its insulated, concrete tilt-up panels caught his attention. For decades SiteCast had been using tilt-up panels for commercial development. "If cost-conscious developers and retailers were using tilt-up, I figured it warranted closer consideration in the building of schools," said Miro.

With concrete tilt-up panels, cost effectiveness is achieved through several means, most notable energy efficiency and speed of construction. Tilt-up's thermal mass properties are a very attractive feature, especially in today's energy-conscious society.

According to Miro, it was important to choose a wall assembly that would first meet or exceed the most critical benchmarks and then see what other benefits could be derived. With tilt-up, there were several. The inherent durability of concrete earned tilt-up extra points and SiteCast won a gold star when the team was able to match the exterior of the original school by using a formliner that took on the look of weathered limestone.



“ South March was our foray into tilt-up to see if it delivered on its promises, and it did. The experience we had working with tilt-up and SiteCast has given us the confidence to continue with a few more schools. ”

Asked if there was one thing Miro would like to say to his colleagues about tilt-up, he responded with this: There is always concern about using something new and different but there are more benefits than naught for using this system. Who knows, maybe it will set a new standard for designs.

ABOUT SITECAST

SiteCast Construction is an award winning industry innovator specializing in insulated, architectural concrete tilt-up panel design and construction. Our team of certified professionals has the experience to deliver a building shell superior to all others. Since 1992 SiteCast has worked on projects of varying size, shape and texture in Canada and abroad.

Advantages for School Boards

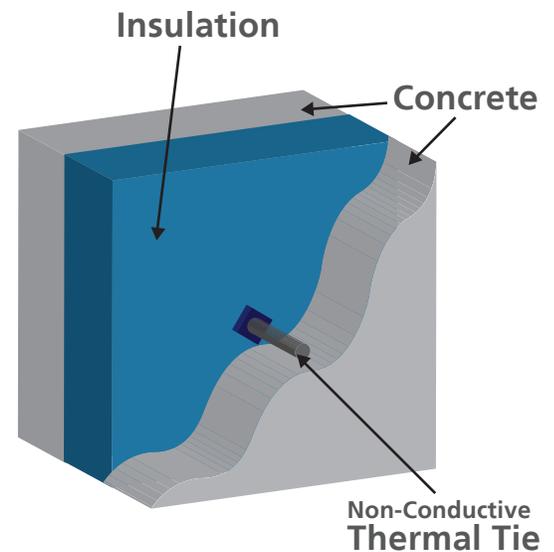
30%+ FASTER CONSTRUCTION = COST SAVINGS

- Wall profiles are simplistic, as these become an organized puzzle, rather than a series of multiple material connections.
- Materials (i.e. concrete and rebar) are local and readily available.
- Several building phases can proceed at the same time.
- Trades can safely access the site sooner because the floor slab is cast first.
- Engineered shop drawings allow trades to order doors and windows, prior to any construction.
- Structure is completed quickly. Once panels are erected, the building shape is defined.
- Panels are constructed with two layers of concrete (exterior and interior layer) and a 4" rigid insulation core to create a "high performance" wall assembly.



30%+ ENERGY EFFICIENCY = COST SAVINGS

- Edge-to-edge insulation tying into the foundation and roof assembly provides an uninterrupted rigid insulation layer that eliminates thermal bridging and reduces air infiltration/exfiltration.
- The interior layer of concrete (load bearing) provides a quantity of thermal massing properties.
- The exterior layer of concrete protects the rigid insulation core, and provides additional natural solar resistance properties. In addition, this layer provides sound masking, architectural detail and because of its durability dramatically reduces maintenance costs.
- Panel joints feature a 2 stage vented cavity and meet Pro-Demnity's requirements for OAA members.
- SiteCast can assist school boards in meeting the Ontario Regulation #397/11 made under the Green Energy Act, 2009.



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