



# SOLAR HEATING IN SCHOOLS

## *East Land Lake School Division, Saskatchewan, Canada*



*Schools are an ideal application for SolarWall heating and ventilation systems. Schools require a certain level of ventilation air to ensure excellent air quality in both the classrooms and in the gymnasiums, which can be cost-effectively obtained by a SolarWall system.*

### **Kamsack Comprehensive Institute,**

This project was commissioned by the Kamsack School Division (now East Land Lake Division). They undertook a series of energy retrofits in order to reduce energy costs and save money at three of their schools.

120 m<sup>2</sup> (1,287 ft<sup>2</sup>) of black SolarWall cladding was installed on two walls. The panels were easily integrated with the features of the building, maintaining the desired architectural appearance.

The heat taken off the surface of the wall is ducted into the building, where it is distributed throughout the gymnasium area to provide heated ventilation air.

*In addition to augmenting the appearance of a school, and providing free heating, the all-metal system represents an opportunity for students to observe firsthand the benefits of environmentally responsible, energy saving technology.*



### **Victoria School,**

This was another school that the Kamsack School Division retrofitted with the SolarWall technology. 77 m<sup>2</sup> (830 ft<sup>2</sup>) of black solar cladding were installed on the south wall. The ducting from the panels was connected to the existing air intake on the wall of the adjacent building, delivering 5,000 cfm of preheated ventilation air to the school gymnasium.

Mechanized louvers were installed near the existing air intake to allow the entry of fresh air into the school during the warm weather.



**WMEP K-12  
Downtown School,  
Minneapolis,  
Minnesota**



**Shandong University, China**

SolarWall® panels are being used to provide heat and ventilation air for this student residence at the university.



**Breck School, Minneapolis,  
Minnesota**



**Alaittuq School,  
Canadian Arctic**



**St. Lawrence College, Ontario**

SolarWall® panels were installed on three buildings at St. Lawrence College.

*Delta School District, British Columbia, Canada*



**Sands Jr. Secondary School, B.C.**



**Burnsview School, B.C.**



**Seaquam Secondary School,  
B.C.**



**St. Hyacinthe Secondary School, Quebec**



**St. Julienne School, Quebec**



**St. Hyacinthe School, Quebec**



**Dr. Kearney School, British Columbia**



**Centennial School, B.C.**



**Charlie Lake School, B.C.**

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SolarWall® systems are protected by U.S. patents 4,777,932, 4,899,728, 4,934,338, 5,935,343, and 7,032,588, and Canadian patents 1,196,825, 1,283,3333, 1,326,619, 2,230,471, and 2,503,395. SolarWall® is a registered trademark of Conserval Engineering, Inc.