

**Savings.
Comfort.
Performance.**

beautiful energy efficient solutions



**HeatShield™
Window Coating**

Sheridan College | Mississauga and Brampton, ON, Canada



Davis Campus, Brampton, Ontario

Problem

Sheridan College is one of Ontario's leading postsecondary institutions, educating approximately 18,000 full-time and 35,000 continuing and part-time studies students from Canada and around the world on four campuses in three Ontario cities – Oakville, Brampton, and Mississauga.

The College's buildings date from 1970 to 2012 and represent a wide range of energy efficiencies and construction practice. In older buildings, large spans of aging windows resulted in significant heat gain and uncomfortable working and learning environments. Students, faculty and administration staff reported lower productivity and discomfort due to high solar heat penetrating into rooms and unwillingness to spend extended time in the affected areas. In one instance, air conditioning was insufficient to compensate for the extreme heat in a north-west facing glass-enclosed classroom.

Solution

In keeping with Sheridan's goal to be a platform for new energy technologies and energy reduction, the College chose eTime's HeatShield thermal window coating for its innovative window retrofit solution. The transparent coating was applied to over 2,100 sq.ft. of windows in some of the most problematic offices, meeting rooms and classrooms in the Mississauga and Brampton campuses over a two-year period from 2013 to 2015.

Results

In rooms where HeatShield was applied, room temperatures demonstrated a reduction of 4-5C immediately after application and up to 50% solar BTU reduction compared to uncoated rooms. Occupants commented on the noticeable improvement after application and best of all, greater satisfaction, evidenced by the absence of complaints from students and staff of "over heating".

eTime continues to support Sheridan College's retrofit programs and collaborate on projects.

"eTime's HeatShield made a significant difference to the lab room's comfort levels. The thermal coating has exceeded my expectations in providing protection against temperature spikes during hours of direct sunlight on the room." – Matthew Sanche, Project Manager, Sheridan College