

**FEATURED PRODUCTS**

**2 Durashield Air Barriers**



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**8 Comfortshield Air Barriers**



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**1 Microshield Air Barrier**



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**ADDRESSING THE ISSUES**

Heat and energy loss was prevalent in concentrated areas with heavy foot traffic across Laurier University's campus. Frequent opening and closing of building entrance/exit doors caused outdoor chilly air to infiltrate indoors during winter. This led to uncomfortable indoor temperatures for faculty and for students who had to work or study in chilly areas.

**THE NDS SOLUTION**

Northern Dock Systems installed 11 Enershield Air Barriers that created an invisible curtain of air moving across the door opening, sealing off up to 90% of outside air infiltration in the process. Air barriers allowed the building entrance and exit doors to remain open, accommodating heavy foot traffic while saving energy. After conducting a thorough Needs Assessment at Laurier University:

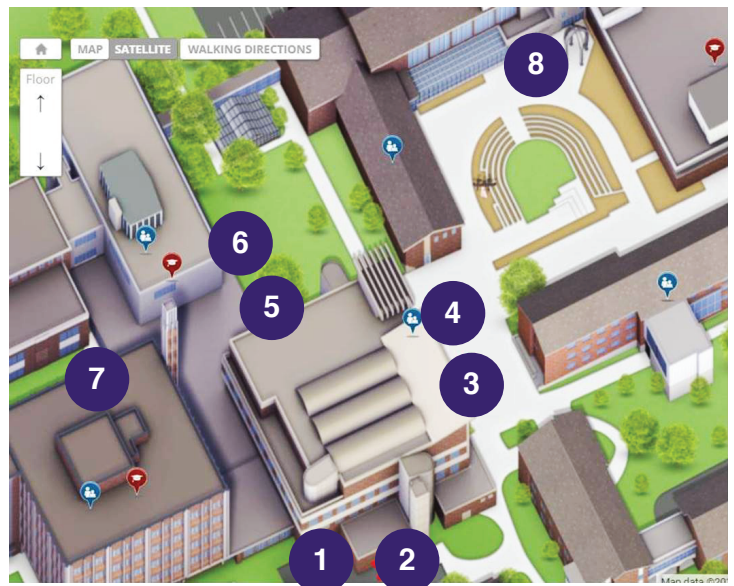
- Comfortshield Air Barriers were installed in areas with specific environmental conditions where pedestrian traffic varied greatly depending on the time of day. During peak hours, doors would remain open for extended periods of time. The installation posed a number of challenges, with the majority of units to be located in areas with glass floor-to-ceiling openings. Northern Dock Systems built and painted custom stands to ensure the structural stability of the installation without compromising on Laurier's modern, aesthetic appeal.

- Falcon BEA motion sensors and timers were installed inside and outside of each opening where Durashield Air Barriers were placed to activate at full speed automatically when pedestrians were approximately five feet away from the door opening to minimize heat loss during winter. Activation timers were set to 20-30 seconds at the busiest locations to maintain an optimal seal and avoid unnecessary on/off cycling.

This project resulted in a minimum of \$4,000 in energy rebates.

- Workplace productivity**
- Strong environmental separation**
- Accommodates high traffic areas**
- Employee/student safety**
- Heat efficiency, reduced HVAC load and HVAC cycling**
- Aesthetic appeal**

**MAP OF INSTALLED ENERSHIELD AIR BARRIERS AT LAURIER UNIVERSITY**



**LEGEND**

- 1 Bookstore S/R
- 2 Food Services S/R
- 3 Food Court
- 4 Fred Nichols
- 5 Starbucks #1
- 6 Starbucks #2
- 7 DAWD - Alvin Woods
- 8 Dining Hall



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