



Owner:
Region of Waterloo

Architect:
McCallum Sather

Our Services:

- Sustainable Design Facilitation
- Energy Efficiency Consulting
- Mechanical/Electrical Design
- LEED® Consulting & Certification

Status:
LEED-NC GOLD Certified
Completed 2005

Region of Waterloo EMS Central Fleet Facility

Emergency services goes green Cambridge, Ontario



The Region of Waterloo Emergency Medical Services (EMS) Central Fleet Facility is the headquarters for ambulance dispatch response throughout Waterloo Region. The building houses administrative offices and up to 12 ambulances. Building features include on-site water retention, low off-gassing materials,

a rainwater cistern, desiccant dehumidification (to replace conventional air conditioning), and Solera glazing for improved daylighting. The building has a 10 kW photovoltaic system to generate electricity. Occupant comfort is improved with extensive daylighting, outdoor views, and displacement ventilation for superior air quality.

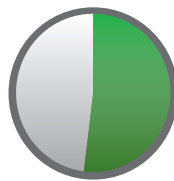
LEED® Project Facts

Gross Floor Area: 1737 (m²)
Energy Density: 190 (kWh/m²)

| Category | % Performance |
|------------------------|---------------|
| Water Savings | |
| Irrigation | 100 % |
| Indoor Use | 59 % |
| Energy Savings | |
| Renewable Energy | 9 % |
| Waste Diversion | |
| Recycled Content | 22 % |
| Regional Content | 32 % |
| Views | 91 % |
| LEED® Gold | |

Notable Features

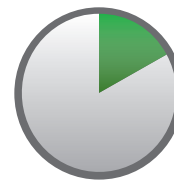
- Ponds and swales to retain stormwater
- Native species landscaping with no irrigation system
- Rainwater cistern to supply water for toilet flushing, clothes washing, and hose bibs
- Radiant heating of garage floor
- Desiccant dehumidification
- Ventilation heat recovery on all air handling systems
- Displacement ventilation
- Occupancy sensors to control lighting
- Energy-efficient lighting design with power density 34% below MNECB
- Construction waste management program
- Low off-gassing materials, including paints, sealants, carpet, and adhesives
- Clerestory windows for daylighting
- Outdoor views for almost all interior spaces



68%
Energy Savings



59%
Indoor Water Savings



22%
Raw Materials Savings