

**Owner:**  
Steelcare Ltd.

**Architect:**  
Chamberlain Architects

**Our Services:**

- Sustainable Design Facilitation
- Energy Efficiency Consulting
- LEED® Consulting & Certification
- Building Commissioning

**Status:**  
LEED-NC Gold Certified  
Completed 2006

## Steelcare Plant 19

Canada's first industrial LEED Gold building  
Hamilton, Ontario



Steelcare is one of Canada's leading industrial service companies, providing sophisticated warehousing, inventory management, and transportation to the steel industry. Plant 19 is a 7,900 m<sup>2</sup> building with a two-storey office area, loading area with air lock, and a fully-automated warehouse. The warehouse is climate-controlled to satisfy particular temperature and humidity

conditions required to prevent condensation on stored steel. Plant 19 achieves a remarkable energy cost reduction due to a high performance mechanical system, low lighting power densities, and the use of a SOLARWALL to pre-heat ventilation air. The building design has proven so successful that Steelcare is working on retro-fitting older facilities to the higher standard of Plant 19.

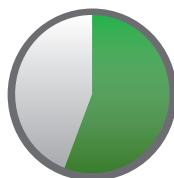
### LEED® Project Facts

Gross Floor Area: 7927 (m<sup>2</sup>)  
Energy Density: 76 (kWh/m<sup>2</sup>)

Category	% Performance
<b>Water Savings</b>	
Irrigation	100 %
Indoor Use	32 %
<b>Energy Savings</b>	
Renewable Energy	15 %
Recycled Content	46 %
Regional Content	22 %
Daylighting	100 %
Views	100 %
LEED® Gold	

### Notable Features

- Open space equal to 36% of lot area
- On-site stormwater detention ponds
- Rainwater cistern to supply water for toilet flushing
- Water-conserving plumbing fixtures
- Infrared natural gas tube heaters
- Heat recovery ventilators
- CO<sub>2</sub> sensors control ventilation levels
- SOLARWALL: solar pre-heated ventilation air
- Energy-efficient lighting design with low lighting power densities and occupancy controls
- 100% of regularly occupied areas are daylit and have operable windows
- Adaptable structure: steel structure assembled with bolted connections and warehouse floor constructed from concrete pavers



**56%**  
Energy Savings



**32%**  
Indoor Water Savings



**46%**  
Raw Materials Savings