ENERMODAL ENGINEERING

Creating energy and resource efficient buildings

Owner:
Southbrook Vineyards

Architect:
Diamond and Schmitt Architects Incorporated

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

Recognition:
2008 Award of Excellence for Architectural Design and an Award of Merit for Green Buildings, Canadian Institute for Steel Construction

2009 International Architecture Award, the Chicago Athenaeum and the European Center for Architecture Art Design and Urban Studies

2010 Design Excellence Award, Ontario Association of Architects

Status:
LEED-NC Gold Certified
Completed 2008

LEED® Project Facts

Gross Floor Area:	852	(m^2)
Energy Density:	392	(ekWh/m^2)

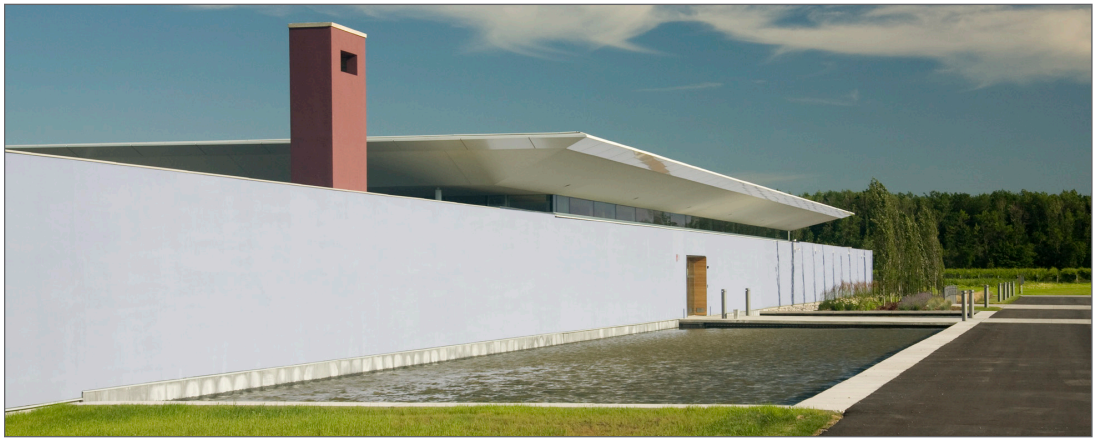
Category	% Performance	
Water Savings		
Irrigation	100	%
Indoor Use	42	%
Energy Savings	50	%
Waste Diversion	88	%
Recycled Content	13	%
Regional Content	33	%
Daylighting	100	%
Views	100	%
	LEED® Gold	

CANADA GREEN BUILDING COUNCIL • CONSEIL DU BÂTIMENT DURABLE DU CANADA
LEED® CANADA GOLD · OR 2008

Southbrook Vineyards

Gorgeous, Glamorous, and Green

Niagara-on-the-Lake, Ontario



The goal of Southbrook Vineyards is to engage both "mouths and minds" with a winery experience keyed to all the senses and to the intellect. A commitment to sustainable practices in all winery activties is reflected in biodynamic and organic grape growing methods that earned an OC/PRO organic designation. The winery's sensory centerpiece in Niagara-on-the-Lake is a Jack Diamond designed pavilion that is not only strikingly beautiful, but also very green, attaining a LEED Gold designation through energy and water conservation, exceptional indoor air quality, and careful material selection. This 853 m^2 hospitality centre includes a wine tasting room, retail facilities, and catering and office spaces.

Notable Features

- On-site stormwater (bio-swale) and wastewater treatment (biofiltration)
- Reflective roof and hard landscaping
- Landscaping plan using drought-resistant system
- High performance curtainwall system
- 50% energy cost savings
- Demand controlled ventilation
- Best practice commissioning
- 88% of construction waste diverted from landfill
- Extensive use of regional materials (33%)
- Extensive indoor air quality protection during construction
- Building flush-out prior to occupancy
- All indoor spaces have daylighting and outdoor views

50% Energy Savings

42% Indoor Water Savings

13% Raw Materials Savings