

Resource conservation

- Forest Stewardship Council (FSC) siding, beams, plywood sheathing, flooring joists, cabinetry and trim.



- Construction and operations waste management system.



- Insulated, waste wood and cement foundation blocks.
- Steel roof.



- Advanced framing techniques (ie. 24" on centre stud framing).

Energy conservation and renewables

- Four high-efficiency heating, ventilating, and air conditioning (HVAC) systems for heating and cooling (mini gas boiler, all climate heat pump, ground source heat pump and a combined heat and power sterling gas engine/furnace).
- Energy Star® appliances.
- Double and triple low e argon filled windows.
- Compact florescent and light emitting diode (LED) lighting with innovative light control systems.
- Both forced air and radiant floor heating.
- Drain water heat recovery.
- Solar hot water heating, passive heating and cooling design, solar air heating and photovoltaic panels for electricity.
- High-efficiency wood burning stove and fireplace.
- Wind energy.
- High levels of (batt and foam) insulation.



Public tours are on weekends. (Times may vary. Maximum of 15 people per tour). Be sure to book in advance to ensure your spot! Tours are included with your purchase of general admission at the gate.

School tours are available Monday through Friday and can be booked as half or full day programs. For more information about school tours contact www.trca-education.on.ca or 416-661-6600, ext.5602

Corporate tours and meetings are also available Monday through Sunday and can be booked between 9 a.m. and 3 p.m. Tours will run for approx. 1.5 - 2 hrs.

Book an event! Special functions or full day corporate group bookings are also available!



To book your tour or event call **416-661-6600, ext. 5602** or e-mail cmacgillivray@trca.on.ca

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Kortright
centre for conservation



EXPERIENCED AND BEYOND
Conservation
for The Living City
Member of Conservation Ontario



The Archetype Sustainable House



The Archetype Sustainable House at The Living City Campus™ at Kortright was built to demonstrate a practical sustainable housing solution. Through education, training, market transformation and partnership programs the intent is to influence how communities are built, planned, constructed and lived in to minimize ecological footprints and improve people's quality of life.

The Living City Campus
at Kortright

A little history...

The Archetype Sustainable House began with a national competition conducted by Toronto and Region Conservation (TRCA) and the Design Exchange. Architects, engineers and designers across Canada were challenged to design the ultimate environmentally friendly home that could serve as a model for housing development. On June 21, 2006, the winning entry - called Building Blocks - was selected by a 'blue ribbon' panel of judges.

TRCA intended to construct the winning entry at its flagship sustainability education facility, The Living City Campus™ at Kortright in Vaughan, Ontario. To ensure that the houses would appeal to both homeowners and the building industry, TRCA partnered with the Building Industry and Land Development Association (BILD). BILD invited its 1800 members to donate the labour and materials to build the houses.

LEED for Homes is a rating system that promotes the design and construction of high-performance green homes. The five pillars of the Archetype Sustainable House are based around LEED's five standards of green building design.

1. Sustainable site and neighbourhood development
2. Healthy indoor air quality
3. Water conservation
4. Resource conservation
5. Energy conservation and renewables



Sustainable site and neighbourhood development

- ☀ Flexible house design that allows for higher density communities.
- ☀ Renovation ready basement and attic.



- ☀ Smaller building footprint.



- ☀ Open concept design.



- ☀ Flexible lot size.

Healthy indoor air quality

- ≡ Used low volatile organic compounds (VOC) paints and materials.



- ≡ Dedicated heat recovery ventilator (HRV).



- ≡ Dedicated air supply for combustion appliances.



- ≡ High-efficiency particulate (HEPA) air filter built into the furnace.

Water conservation

- ☀ Water efficient appliances toilets and faucets.
- ☀ Rain water collection for plant irrigation and toilets.



- ☀ Drought resistant planting (*xeriscaping*).



- ☀ Zero run-off lot (*permeable driveways and green roof*).



- ☀ Wetland wastewater treatment system.