

The Archetype Sustainable House

Vaughan, Ontario, Canada



Insulspan Dealer helps build sustainable Ontario home

Insulspan dealer, **Kent Building Solutions**, participated in the construction of one of the most sustainable homes in Ontario this year. Located at The Living City Campus at Kortright, in Ontario, Canada, the **Archetype Sustainable house** demonstrates sustainable technologies, materials and practices for the production build residential market. **Designed by Building Blocks** a team that included **Stone's Throw Design Inc**, **Fort Architect Inc**, and **Lori Architects**, the home design is a Sustainable Housing Competition winner. The modular design creates efficiencies in the construction that presented **Insulspan SIPs** as the perfect construction and insulating solution. Not only an energy-saving product, **SIPs** are designed to be pre-cut in the factory and shipped to the site to be easily installed and reduce site time on projects.

Once complete, the home will have multiple certifications such as **LEED for Homes**, **Energy Star**, and **R2000**. The technologies within the house make such certifications possible. Aside from the use of the **Insulspan Structural Insulated Panel System**, the home also uses energy efficient technologies in the heating and cooling system, the windows, insulating products, and solar power aspects of the home.

The project began in 2005 with a national design competition sponsored by the **Toronto Region Conservation Authority** (which operates Kortright) and run by the **Design Exchange**. The criteria called for a four bedroom home with garage, designed for mass production, that had an innovative waste-water treatment and would meet **LEED Gold** (Leadership in Energy and Environmental Design) and **Energy Star** standards. The home incorporates **Better Building Ideas from PFB** by using **Insulspan SIPs** as well as other **EPS** (Expanded Polystyrene) insulation products from **Plasti-Fab Ltd**.

In order to meet some of the certification requirements, the Construction site required specific standards for waste management and energy usage. The energy and power to the site was supplied solely by solar powered trailers. The **Insulspan** system was a good fit for this as it reduced the waste on site by providing a product that is pre-cut and sized to specification before delivery.