Habitat for Humanity LEED Platinum home





The Peterborough, Ontario Habitat for Humanity affiliate sponsored this LEED Platinum certified home as one of the four homes they built in the city in 2010. It is part of the affiliate's move to bring all their new builds to LEED standards.



A small, 39 x 90 suburban lot gets a high-slag content slab foundation













Prefabricated straw bale wall panels are built in a nearby shop and will be ready to install when the foundation is set.

















Within a matter of hours, the prefabricated straw bale walls are craned in place and ready for the roof. The walls will bear the weight of the roof.







The roof is craned into place and the building shell is complete.









Straw clay (slip straw) insulates the gable walls of the house.







A local pine ceiling is installed, and interior walls are framed. Some are sheathed in magnesium oxide board, others with clay plaster.



Bottles in a clay mortar decorate one wall.





The prefab bale walls are strapped on the exterior for the placement of horizontal siding.

The siding is a fiber -cement board, as is the trim.



Solar hot water and a 5 kW photovoltaic system are installed on the roof.









Non-toxic paints, finishes, glues and caulking were used exclusively on the interior.





