

LEGALETT

Legalett GEO-Passive Slabs & ThermaSill Threshold Solution featured in University of Toronto Passive House Laneway Housing Project

Legalett Canada is proud to be a part of this Passive House project that won SAB Magazine's Green Building Award for Small Residential.



These prototypes are the forerunner of 40 laneway and infill homes proposed for the Huron Sussex Neighbourhood, a historic precinct adjacent to the University of Toronto's downtown campus. The houses are designed to be net-zero energy and net-zero carbon using 'Passive House' principles.

Legalett was responsible for providing three GEO-Passive Super Insulated Shallow Slab Foundations that also included ThermaSill PH Insulated Threshold Solution throughout. Legalett was responsible for the sub-grade preparation supervision for this challenging, zero clearance, high density urban fill site.

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Each house was tested to confirm that they meet and/or exceeded the Passive House standard for air tightness, which is three times better than a typical new home build.

Performance Stats:

- Energy intensity (building and process energy) = 47.3KWhr/m²/year
- Energy intensity reduction relative to reference building under ASHRAE 90.1 = 54%
- Water consumption from municipal sources = 44,880 litres/occupant/year
- Reduction in water consumption relative to reference building under LEED = 51%
- Regional materials (800km radius) by value = 15.25%
- Construction waste diverted from landfill = 85%

“We’re very, very proud of the environmental features here and the thought that has gone into the net-zero footprint that these buildings will generate,” University of Toronto’s President Gertler said.

Find out more information on Legalett’s featured products:

[GEO-Passive Super Insulated Shallow Slab Foundations](#)

[ThermaSill PH Insulated Threshold Solution](#)