

LEGALETT is a “one stop shop” for your foundation and floor heating requirements. First developed in the Nordic areas of Europe as a solution to permafrost and problem soils, LEGALETT is now used worldwide, offering these many benefits:

- Point loads of up to 100,000lbs can be accommodated within the thickness of the slab, eliminating the additional excavation and concrete normally required
- Poor soils and landfill can be built on without removing much or any of the soil
- Expansive soils are no longer a problem with our below grade, water shield design
- A solution in seismic areas
- The elimination of vibration or sound control design, which is otherwise required when building near railways.
- Our low/no maintenance heating systems will provide years of comfortable radiant heat and are designed to work with “Off Peak” energy billing.
- Because we build on top of land, mature trees and vegetation can be left unspoiled and high water tables are no longer a problem
- The design will prevent infiltration of radon gas and moisture migration into the building
- Cisterns for rain water or fresh water reserves can be placed below the Frost Protected Shallow Foundation without any special engineering requirements
- No “sump pump” requirements, eliminating the possibility of flooding

LEGALETT achieves all this by designing a Frost Protected Shallow Foundation (FPSF) that behaves structurally as a two-way raft foundation resting on soil that is modeled as an infinite set of springs. The slab provides the foundation structure for the building at a much reduced soil bearing pressure compared to conventional footings, allowing opportunities for building on low-lying areas and poor quality soils.

The LEGALETT System is simple to install, requiring only the removal of organics; placement of stone; EPS, heating system and rebar; pour concrete; and finish surface.

Building sites are flat and easily accessible throughout construction.