



## STEP UP TO THE ULTIMATE FROST PROTECTED SHALLOW FOUNDATION

### Engineered Solutions For:

- Point loads of up to 100,000 lbs within the thickness of the GEO-Slab eliminating the additional excavation, formwork and concrete normally required
- Low bearing capacity soils or landfill
- Expansive soils using our below grade water shield design
- Permafrost
- Seismic control
- Vibration or sound control foundation requirements often required when building near railway lines

### Design Advantages:

- Legalett's low/no maintenance heating system will provide years of comfortable radiant heat and is designed to work with off peak hour energy billing
- No intrusion into high water tables or undermining the roots of mature trees
- Prevention of Radon Gas and moisture migration into the building through the GEO-Slab foundation
- Cisterns for rain water or fresh water can be placed below the GEO-Slab

Legalett achieves all this by designing a GEO-Slab, which is Frost Protected Shallow Foundation 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. A GEO-Slab incorporates a trickle energy radiant heating system which greatly reduces or eliminates the need for additional insulation around the exterior of the slab foundation.

*GEO-Slab can make your dreams affordable.*

## NINE EASY STEPS



Remove Organics



Place and Level Stone



Install EPS Form Work



Install Perimeter Reinforcement



Position Heater Box



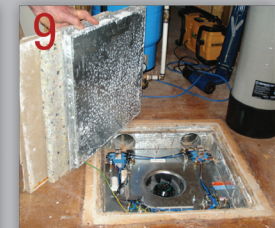
Install Heating System



Install Final Reinforcement



Place and Finish Concrete



Install Permanent Heater

### CONTACT INFORMATION: