

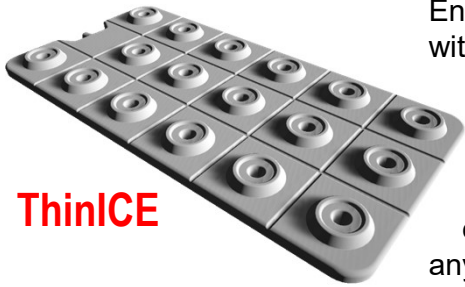


PCM



Phase Change Materials
Thermal Energy Storage

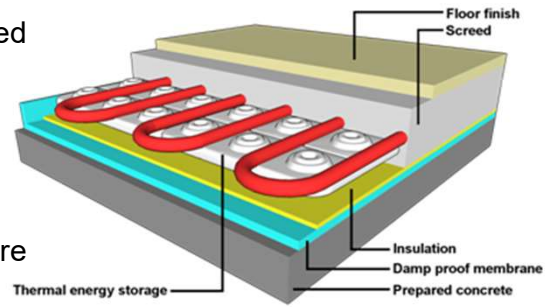
UNDER FLOOR HEATING THERMAL ENERGY STORAGE



ThinICE

Encapsulated ThinICE containers filled with 27~32C (81~90F) Phase Change Material is ideal to store any excess energy and over comes any overheating.

This Thermal Energy Storage capability provides a useful tool to store any free energy such as solar as well as



shifting the loads from peak to off-peak periods for any domestic or commercial heating applications.

A typical installation is illustrated below and ThinICE is designed to house any standard underfloor heating pipes within the built in grooves. Once the pipes are laid down over the ThinICE containers any standard floor levelling compound can be poured over the pipes to level the floor. Any screed and floor finishing materials can be applied like any standard underfloor installation. As the PCM material temperature is fixed this thermal energy storage within the floor mass will keep the floor temperatures steady irrespective of the incoming heating water supply temperatures.

