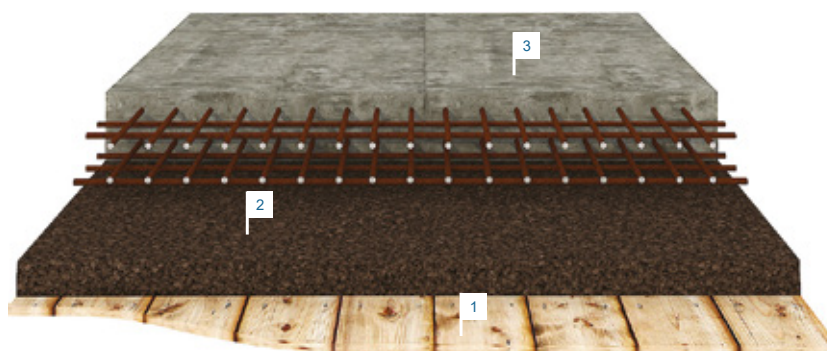


# Insulation of concrete structures

## THERMAL INSULATION AND SOUNDPROOFING IS VITAL FOR DWELLING COMFORT

Mainly light materials are deployed in thermal insulation whilst in soundproofing heavy, absorbent and elastic materials are used. The application of Expanded cork agglomerate

rate directly in the formwork allows a reduction in overhead noise between residential storeys as well as the structural discontinuity of interior walls.

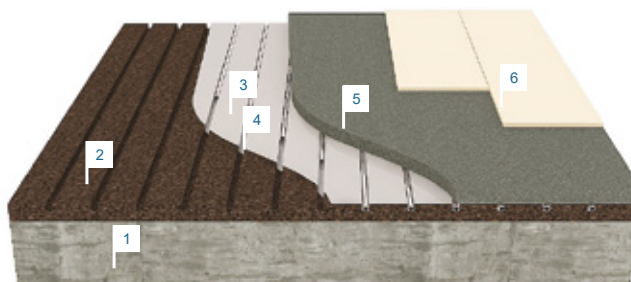


1. Formwork 2. Expanded Cork Board - ICB 3. Concrete slab

### Benefits

Reduction in sound level of percussive noise	Reduction in thermal losses between adjoining floors
Reduction in sound level of noise transmitted by air	Easy application - directly on formwork (does not require adhesion)
Reduction in vibration transmission	Easy lining and low cost

## THE EXCELLENCE OF CORK ON HEATED FLOORS



1. Slab 2. Expanded Cork Board- ICB 3. Reflective sheet or retractable film 4. Heating pipe 5. Screed 6. Final flooring

Radiant flooring consists of a piping circuit placed below the floor and a thermal regulation system which allows the atmospheric temperature to be controlled at any time through the circulation of hot water or electricity. Grooved SOFAFLOOR Expanded Cork Board - ICB boards serve as the base for heating pipes, allowing the easy application owing to the design of the boards themselves, acting as thermal insulation and avoiding the propagation of the cold transmitted by the ground.

By contrast, the structural discontinuity between the flooring screed and the slab, obtained by applying Expanded Cork Board for thermal insulation, will bring about a major reduction in the transmission of vibrations and noise resulting from impacts on the flooring. Hence, the interposition of Expanded Cork Board - ICB on radiant flooring serves a dual purpose: Thermo-insulating and Phono-insulating.