

# Subsiding internal slab at a detached two-storey property, Co. Kildare Ireland

## Background

Due to a historic water leak, the customer had a dropped slab that spanned the kitchen, hallway, lounge, sitting room and bedroom on the ground floor. Consequently, the internal walls built off the slab were cracking as a result. It was a longstanding issue and the customer was looking for a cost-effective, viable solution that could be completed relatively quickly and at the right cost

## Customer alternatives

The primary alternative was to excavate and replace the entire slab area which would have involved removing the stairs and five walls, removing all high-end finishes throughout and reinstating all afterwards.

This solution would demand weeks of building work and the property would have been uninhabitable.

## Why Geobear

The Geobear solution resulted in close to zero disruption in comparison to the alternative as

detailed above. Our solution was completed in one day with no excavation, no spoil to remove from the site or heavy plant onsite (diggers, concrete trucks etc). Furthermore, the underfloor heating pipes could be retained as they were located on the morning of the work using thermal imaging cameras to ensure they were not damaged.

## Geobear solution

Our design solution saw 27 injection points in a 1m grid pattern.

We drilled to a depth of 100mm below the base of the slab and into the fill material/void underneath.

Our injection tubes were placed into each point and a pre-determined amount of specialist geopolymer was installed at each injection point.

