

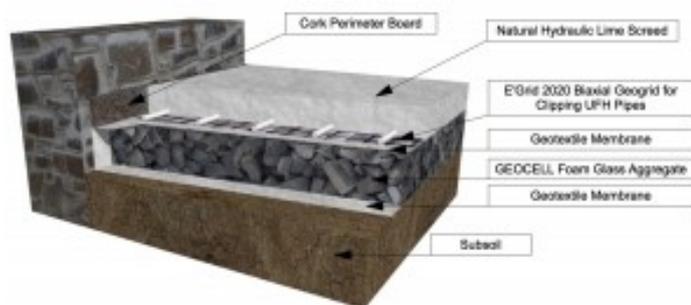
# Limecrete Floor Systems

## Limecrete Floor Systems

One issue facing owners of traditional properties is how to improve standards of insulation, air-tightness and management of dampness. Homes and workplaces need to be functional spaces where people can live and work comfortably. Increasingly, they also need to be energy efficient, satisfying the ever-growing demand for carbon reduction while retaining their distinctive character.

Building Regulations require floors of most buildings to have high insulation levels, high compressive strength as well as impermeable barriers to prevent moisture migration. Building Regulations are absolute for new dwellings and can be used as the goal for existing traditional buildings. However, regulations can be a little more flexible for old buildings if there are justifiable reasons not to conform.

Where a new floor slab is to be created, one option is to use a slab based on lime ([Limecrete](#) or [Glasscrete](#)) which is breathable, rather than OPC (Ordinary Portland Cement), which is virtually impermeable. It's possible to design a lime floor to meet modern insulation requirements and can incorporate under-floor heating (UFH).



Preventing ground water penetration requires including some form of capillary break – achieved by using an impermeable

damp-proof membrane (DPM) and would also usually include an additional petrochemical-based insulation layer.

Use recycled foam glass (Glasscrete) or expanded clay aggregate (Limecrete) as a loose-fill sub base for a more durable and environmentally friendly compared to insulation materials made from petrochemicals. Furthermore, due mainly to the open pore structure of these aggregates, they have low capillary attraction to moisture.

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## Guidelines

It is important to match the design of the limecrete to the needs of the building. Factors include the type of construction for both floor and walls, floor area and groundwater levels.

We can advise on the thickness of each component of the floor system for your specific project.



**Mike Wye Limecrete and Glasscrete® are LABC registered floor systems.**

LABC represents all local authority building control teams in England and Wales. Members work cooperatively with building owners, home owners, architects, plan drawers, developers building contractors and other professionals to ensure buildings are safe, healthy and efficient to meet the standards set by the building regulations.

**[This website details the buildup of the various limecrete flooring options available. Use the menu above to navigate or click here for the Mike Wye website.](#)**