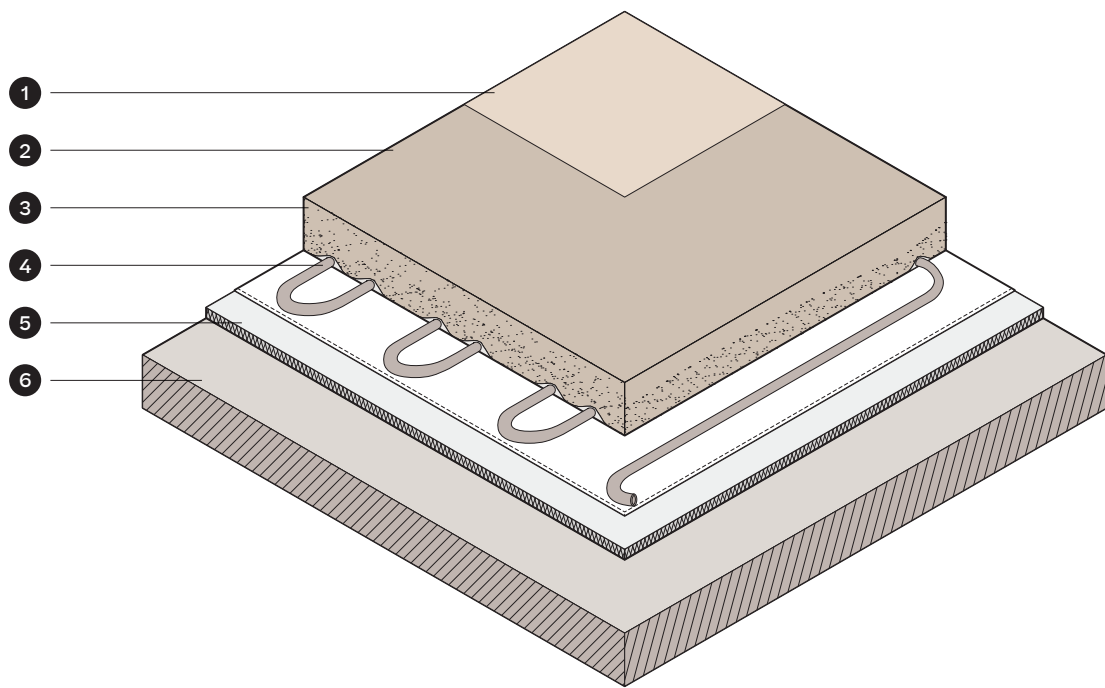


# Rammed earth floors from 100% earth

**LEHM  
TON  
ERDE**

Standing, walking, sitting, lying, living on a resource that lies naturally below our feet. Floors made of 100% earth combined with experience, know-how and technology, an old building material reinvented. Our rammed earth floors offer a stately solid ground that can be wonderfully combined with different types of walls. The ERDEN floor is an archaic grounding beneath your soles.



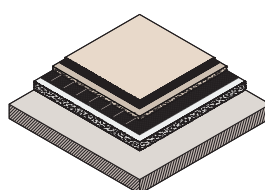


## Choose your ERDEN Floor

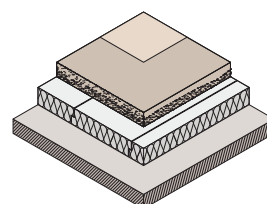
ERDEN Floors are produced according to requirements, optionally with integrated floor heating, sound insulation, fine polishing, and sealing.

1	Sealing	After fine sanding, the ERDEN Floor is sealed with a palm wax emulsion. This makes the floor even more resistant.
2	Polishing	Our ERDEN Floors are polished after installation. This creates a surface similar to a terrazzo floor. Coarse stones in the earth mixture are sanded down and become visible.
3	Rammed earth	The loose earth mixture is placed on a rigid sub-floor and compacted to a thickness between 70 and 120 millimetres.
4	Integrated heating	If desired, the ERDEN Floor can be equipped with a heating system. This allows the massive earth base to warm up and ensures a comfortable indoor climate.
5	Sound insulation	The construction of ERDEN Floors varies depending on the requirements. In some cases, impact sound insulation is an advantage. This is installed between the structural component and the earth mixture.
6	Substructure	An ERDEN floor requires load reinforcement and a rigid sub-floor. This can be wood, concrete, or earth.

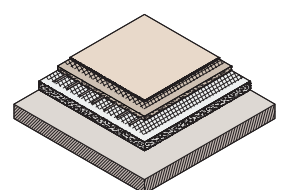
ERDEN floors can be combined with typical insulations using conventional building methods. Integrated heating and subsurface insulation can also be installed with ease.



**A** Standard installation

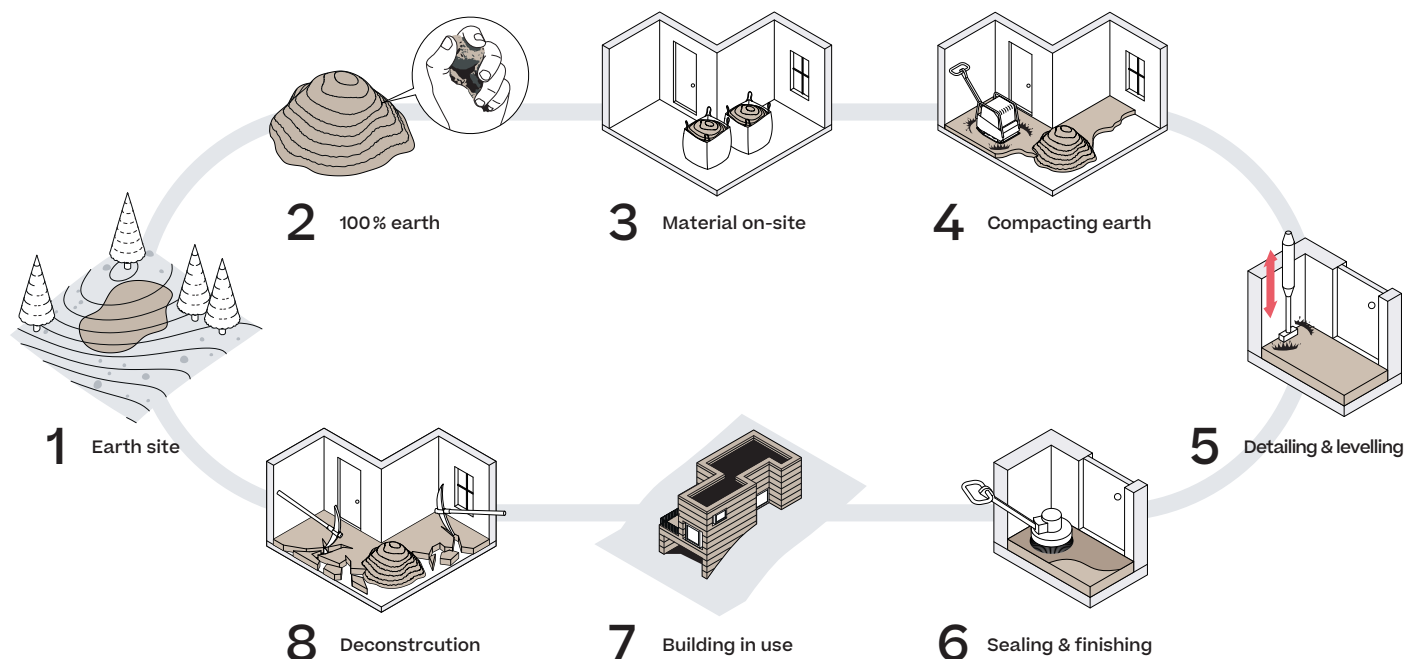


**B** Insulation sub-layer



**C** Lightweight with in-floor heating

## Process



## What ERDEN Floors can do

Earth has many good qualities. If you know how to take advantage of them, living surrounded by earth is almost unbeatable.

### Passive climate regulator

Rammed earth can passively regulate indoor temperature and humidity. Its high thermal mass means the hottest and coldest parts of the day are avoided. And because earth can store moisture, indoor spaces maintain a comfortable 55% humidity level which is ideal for comfort and respiratory health.

### Care

In terms of maintenance, an ERDEN Floor is comparable to a solid wooden floor in that it is robust and easy to care for. Additional installation and retouching of wear can be made easily.

### Natural haptics

The feel of rammed earth is something everyone is drawn too. It has a deep texture that is natural and ancient, giving spaces a sense of calm.

### Seamless finish

Because our rammed earth mixture contains no cement and the natural plastic properties of clay, ERDEN floors can be made to have a seamless surface. Our floors have no gaps, seams, or movement joints.

### Recyclable

ERDEN floors are made from 100% earth, no cement is added. That allows the material to remain water soluble and toxic-free. Floors can be torn up, crushed and recycled into new floors. Or when it comes time to say goodbye, there is no waste, no hazards. Earth returns to earth.

### Upgrading existing

An ERDEN Floor is ideally suited for installation in existing buildings. The technology and the material allows for installation and compatibility with standard building structures and components.



#### **What we need to know for an accurate cost calculation**

- Location of the current project
- Access to the installation site
- Wall accessibility within the building
- Load capacity of subsurface
- Area of the floor
- Floor to wall construction details
- Amount of services and installations
- Length of room perimeter
- On-site assistance

#### **Advantages**

- 100% natural
- 100% recyclable
- No disposal fees
- Best indoor climate
- Moisture regulating
- CO<sup>2</sup> neutral
- High thermal mass
- Heat reservoir
- Noise reduction
- Fire retardant
- Light fastness as the material does not fade or darken

“The envelope that surrounds us should be able to breathe and diffuse in the same way as our bodies.” Martin Rauch

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