



**LINZMEIER**

Insulate with system

## Information of the installation of cellar ceiling insulation LINITHERM PAL KD Biozell®

Cellar ceiling insulation

**LINITHERM®**

Installation



**7** YEARS  
**5**

[www.Linzmeier.de](http://www.Linzmeier.de)

### Material requirement

LINITHERM elements, fixation clamps, BioZell® repair kit, BioZell® paint roller.  
Planned battens, L-wall connection profiles or fixation clamps are required depending on the desired wall connection. An additional bonding can improve flatness of the surface, then the LINITHERM adhesive foam is needed.

### Delivery

LINITHERM insulation elements are delivered on pallets. Unloading or transporting the elements on side has to be done carefully. During all works (laying the elements, etc.), it has to be observed, that no damages occur. The elements have to be protected against damp and UV light during storage, transport and installation, especially around the cut edges.

### Safety provision

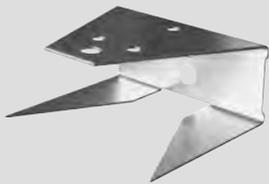
The safety regulations on construction sites need to be observed.

### Tools

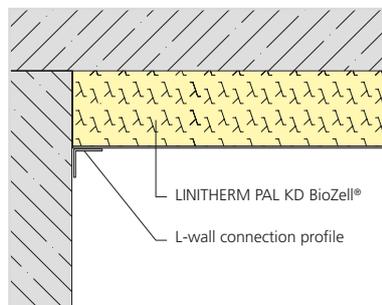
For the installation of LINITHERM insulation elements only a few tools are necessary, which are usually available on every construction site. These are e.g. portable circular saw, jigsaw, foxtail, cutter knife, hammer drill, cordless screwdriver, level, hammer etc.

### Installation information for LINITHERM PAL KD BioZell®

- Measure the ceiling accurately. Arrange LINITHERM elements to get an offset cross joint of at least 25 cm. This is useful concerning a good joint pattern and a low-cutting installation.
- Make the wall connection depending desired design, with wall connection profile [Fig. 1], planned battens [Fig. 2] or edge fixation clamps [Fig. 3].
- Place the first board firmly against the wall. (cut the joints first, foam cavities to the masonry or insert a compriband).
- Push 2 fixation clamps per element into the lengthwise joint and dowel to the ceiling [Fig. 4].
- Insert the next board with the tongue joint into the edge joint; note offset joints and alignment.
- Adapt / cut the last row of boards and fix them to the wall as for the first row of boards.  
Alternatively, the last row of panels can be clamped (if necessary, wedged) and foamed / glued in place.
- Damages or open cut edges can be covered with the BioZell® repair kit.
- If desired, surface can be painted afterwards (e.g. with silicate or dispersion paints).
- If an additional gluing beside the fixation clamps is needed, the use of steel supports is recommended [Fig. 5].



Edge fixation clamp



[Fig. 1]



[Fig. 2]



[Fig. 3]



Fixation clamp



[Fig. 4]



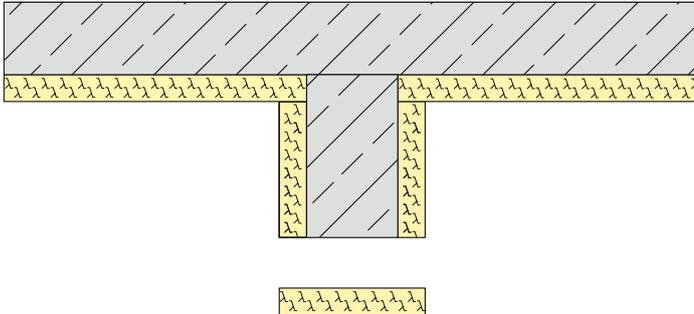
[Fig. 5]



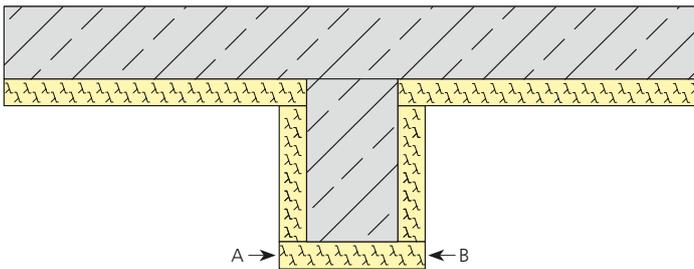
[Fig. 6]

## Connections and beams

Walls or beams connecting to the surface represent thermal bridges and should also be insulated. Whether flank insulation at connections to the exterior wall is useful depends on the thermal bridge verification in the thermal insulation verification.



[Fig. 7] Flank insulation on beam or inner wall



[Fig. 8] Beam completely insulated. The front edges A and B still have to be painted with BioZell® repair kit.

## Principles / Regulations of building physics

In general the following points have to be observed when installing the LINITHERM elements:

- Our installation instructions are meant as information for specialised technicians.
- Insulation elements are to be laid in a bond and tightly joined in order to achieve an insulation level free of thermal bridges.
- Damages must be repaired professionally (e. g. foaming, filling, ...).

In these installation instructions, various installation options and details are presented. Our suggestions represents only a limited selection. They are not binding and do not claim to be valid in principle, nor do they constitute a warranty claim. Planning specifications and general rules (e.g. technical rules, standards, etc.) must always be observed regardless of this. Every building offers different conditions, therefore it must be planned and proceeded according to the rules of building technology for each specific building.

Depending on the mounting surface, alternative fixing options may be possible. Corresponding processing guidelines of the fixation manufacturer (e.g. adhesive) must be observed separately. The assessment of the mounting surface is carried out on site by the installer.