

# Case Study: Microclimate for piglets

Project of:  
**Paneltim® Agro Scandinavia (DK)**  
Website: [www.paneltimagro.dk](http://www.paneltimagro.dk)  
Experience in the sector: +20 years  
Experience with Paneltim®: +20 years

**PANELTIM AGRO**  
Scandinavia 

## Project

Create an energy-efficient warm space for piglets.

## Location

Tollose (DK)

## Year

2018

## Measurements

7 sections of 16 pens. In total space for 3,920 piglets.

## Challenge

Finding a product that would not bend, that is airtight so that no warm air escapes and on which the water does accumulate on top, to prevent disease transmission after cleaning.

## Product

Paneltim® Lightweight

## Material

PP copo

## Thickness

20 mm

## Format

1,200 mm x 1,000 mm  
1,200 x 800 mm

## Internal cells

100 mm x 50 mm

Paneltim® Agro Scandinavia (PAS) regularly sets up pigsties with a designated heat zone for piglets. This zone is covered with a lid to create a microclimate. PAS makes this cover from Paneltim® panels, because they are airtight, easy to clean and do not bend. In addition, the panels are resistant to ammonia and humid environments, which means that they are often used in pigsties to meet strict hygiene standards.

## Energy saving

The Paneltim® panel lid has an insulating effect thanks to the internal hollow cell structure. Because the heat emitted by the piglets is retained under the lid, an additional heat source is no longer necessary. Under the lid it can be up to 35°C, while in the rest of the stable it is 22°C. It is therefore not necessary to heat the entire sty. The piglets crawl under the lid to enjoy the microclimate and the farmer saves energy.

## Lean and clean

PAS makes the lids from 20mm thick Paneltim® Lightweight panels. These are light (7.5kg/m<sup>2</sup>), strong and can be lifted easily. PAS fixes an F-shaped PVC profile on the front of the lid that provides extra support to the panel. This profile also reflects the heat under the lid. In addition, PAS developed a hinge system that functions manually or automatically. Hans Hoyer (PAS): "Paneltim® panels are lean and clean. With a minimum number of accessories, the panels can be installed and cleaned quickly and easily."

## Alternative materials

Traditional insulation panels, after around five years, are affected by ammonia and cleaning with a high-pressure cleaner. Wood panels are porous and with PVC it doesn't take long for the internal accumulation of dirt. Paneltim® panels are closed all around, so no dirt can creep into them. Moreover, they are corrosion-resistant, easy to clean and will last for years.

