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Res. Agr. Eng.

J. Lendelová, Š.
Pogran

Thermo-technical

structures for lying cubicles

Res. Agr. Eng., 49 (2003): 146-150

A paper dealing with prevailing floor construction types from a thermo-technical point of view. The accent was put on lying cubicles for cows, the floors must be soft, dry, warm and flexible. Attention was paid to analysis of the thermal resistance and thermal absorptive capacity of selected types of flooring. The greatest thermal comfort depends upon the design of floor structured coating materials. A biological floor accretion layer has a positive thermal influence and softens thermal comfort during the animals lying period. A calculation, estimating values of thermal absorptive capacity, shows that the quality and thickness of the structured layer on a covered floor is very important, underlying layers are only affected with thinner designs of a calculated boundary value.

Keywords:

cow; floor; lying cubicle; thermal comfort; thermal absorptive capacity

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