

‘Kyoto-road’, a cheap and environmental friendly road foundation method for settlements reduction

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Rural roads in the Netherlands have a total length of about 100.000 kilometres. About half of these roads have been build on very soft soils and are subjected to large settlements, typically in the order of 1 meter. Aim of the study was to design and build a new road concept that meets three criteria. The road foundation should be as cheap as the traditional way of building, should be made of waste and renewable materials and should be free of settlements. The road is designed with reinforced waste material and founded on small wooden piles with concrete caps. The road is environmental friendly due to the reuse of waste material and due to storage of CO₂ in the wooden piles. The waste material is costless and the wooden piles are cheap. Durability is reached by placing the piles below waterlevel in the peat layers. The resulting concept has been given the name ‘Kyoto-road’. A pilot test of this ‘kyoto-road’ has been built in oktober 2005 near Giessenburg. The ‘Kyoto-road’ concept as well as monitoring results of the pilot test during intensive usage will be presented and discussed.

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