

Building Materials from Stabilized Soils

The use of under-utilized resources for Low Cost Building

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Abstract

This paper presents a new approach in building to help various target groups in need of building low cost housing. The building materials considered here are stabilized soil bricks using the locally available under-utilized resources. Firing these bricks makes them hard, strong, dense and durable. Over-firing leads to the formation of Zhama bricks. Clay/Lime bricks give the best results when left un-watered during setting and then fired at 1073K for 10 hours. Clay/Lime ratio supplemented with some sand gives even a better result