

New Processing Method of Kaolin-Based Geopolymer Brick by Using Geopolymer Brick Machine

Abstract

With increased activity in construction, deficiency of building materials and construction waste improvements have encouraged the development of new building materials. Conventional construction bricks are usually made from clay and sand, which are mixed and molded in various method and need to be dried and burned. Geopolymer bricks making process consume less energy and low cost in term of production compared to conventional bricks. The development of geopolymer brick is an important step towards produce bricks with better performance and environmental friendly material This research focusing on the processing process of the clay-based geopolymer brick from the mixing until the curing by using a geopolymer brick making machine.

Keywords; Alkaline Activator, Brick, Clay, Geopolymer, Kaolin, Masonry Brick, Non-Loadbearing