

Waste Materials in Block Manufacturing

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Abstract:

The ever-increasing supply of agricultural and industrial waste material, the scarcity of land fills, and the increasing cost of waste materials disposal have prompted the search for more efficient and environmentally friendly means of disposal. The use of waste materials in the production of building materials is one such method that can offer economical and environmental ramifications. The utilization of some waste materials, including coal reuse, sludge, sawdust, waste glass and phosphogypsum, in the production of building blocks is presented and discussed. The characteristics, properties, and problems associated with the production of such blocks are emphasized.

Various studies have shown that it is possible and economically feasible to successfully use such waste materials in the production of building blocks. Improving some of the physical properties of blocks and reducing the production cost of the advantages that may be gained. The results achieved so far warrant further investigation in the potential application of waste materials in the production of useful building materials.

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