



CONSTRUCTING ECO-FRIENDLY HOME INSULATION WITH RECYCLED PAPER IN BALAYAN BATANGAS

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ABSTRACT

This research explores the development of environmentally friendly home insulation using recycled paper in Balayan, Batangas. As the issue of waste management and environmental protection becomes more pertinent, transforming paper waste into an insulating material poses a pragmatic and eco-friendly solution for homes. The study explores the insulation's thermal efficiency, strength, and fire resistance alongside conventional insulation materials. Furthermore, it evaluates the possible scope of the economic impact and the extent of energy savings in households during the insulation's mass production. Incorporating waste paper sourced from the region aids in achieving ecological balance while serving as a more economical option for the homeowners. The study results will aid in fostering the region's efforts towards green building development and expanding the use of environmentally friendly insulation materials in construction.

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