

Bamboo is a Sustainable Healthy Eco-friendly material for Interior Design and Furniture

Assist. Prof. Dr. Doaa Esmail Esmail Atya

Assistant Professor, Department of Interior Design and Furniture, Faculty of Applied

Arts, Benha University

doaaattiaaa@gmail.com

Abstract

The contemporary interior design is trying to contribute in protecting the environment, while satisfying the need of the people with a functional and aesthetic interior design and furniture, that can improve health, and standards of living. Bamboo is a rapidly growing grass that has sustainable, renewable, and recyclable properties, also has multiple physical properties as lightweight and high-strength, durability, water, fire, pests, and microbial resistance. One of its important advantages is being cost-effective for its low-cost cultivation, transportation, production, and less time consuming and energy expenditure. The research problem: cutting the natural woods to satisfy the need of interior design and furniture for everyday living, is depleting the natural resources and negatively affecting the environment. Can bamboo, being a sustainable eco-friendly material, be used in interior design and furniture and contribute in protecting the environment by minimizing cutting natural wood and cover its shortage, while keeping the earth green? The aim of the research is to illustrate the role of bamboo, as a sustainable, healthy, eco-friendly environmental material, and its uses in interior design and furniture to help creating a healthy interior environment while keeping the earth green. Results: interior designers must consider using bamboo being a sustainable renewable material to reduce depleting the natural resources and help in protecting the environment. The use of bamboo in the interior design and furniture creates an interior environment close to nature with its natural look, and comfortable ambiance being oxygen inducer and carbon dioxide reducer as well as thermal insulator. This helps in reducing everyday stress and the negative impact of the modern lifestyle on its occupiers' and on the long term it ensures a relaxed and healthy interior environment protecting against psychological and physical illnesses. The different advantages of bamboo encouraged interior designers with the help of new technology to integrate bamboo in the contemporary interior design and furniture to create a healthy and positive environment with diversity of modern designs using an eco-friendly material. The results of the study were applied on a bedroom in a touristic resort.

Keywords:

Bamboo, sustainable, interior design, ecological, environment, ecofriendly.