

ABSTRACT

A bamboo composite material for structural applications and method of fabricating the same are provided. The method can comprise the steps of providing a bamboo culm; separating a slice or sheet from the bamboo culm such that the slice or sheet has a longitudinal axis along a fiber direction of the bamboo culm; at least partially detaching individual fiber bundles of the slice or sheet from each other along the longitudinal axis of the slice or sheet; applying a glue to the slice or sheet; and curing the glued slice or sheet.

Fig. 21