

# Acetylated flakeboard properties.

Personal Authors: [Hadi, Y. S.](#)

Author Affiliation: Faculty of Forestry, Bogor Agricultural University, Bogor, Indonesia.

## Abstract:

Flakeboards were prepared from acetylated and untreated flakes of damar (*Agathis loranthifolia* [*A. dammara*]), tusam (*Pinus merkusii*), sengon (*Paraserianthes falcataria*) and meranti (*Shorea pinanga*). Phenol formaldehyde was used as adhesive. Flakeboards were tested for their physical and mechanical properties, and resistance to dry wood termites (*Cryptotermes cynocephalus*) and subterranean termites [*Coptotermes* sp.]. Boards made with acetylated flakes had lower moisture content, water absorption and thickness swelling, and higher anti-shrink efficiency, modulus of rupture, modulus of elasticity, internal bond, screw holding capacity and resistance to termites. Wood species affected physical and mechanical properties of the boards and resistance to subterranean termites, but not resistance to dry wood termites.

Publisher: Forest Research Institute, Ministry of Forestry