Dust generation characteristics of hardwoods during the sanding process.

ABSTRACT

A study of the factors that influence dust-generation during the sanding process of Malaysian hardwoods was undertaken. It was found that the amount of wood removed during the sanding process predetermined dust-generation, although the wood density and abrasive grit used also played a role. Consequently, low density wood species produced higher dust-concentration due to its relative ease of sanding, and vice-versa. The results of the study suggest that minimizing dust-generation during the hardwood sanding process could be achieved by ensuring minimal amount of wood removal as well as the use of the coarsest possible abrasive grit in the process.

Keyword: Dust; Sanding; Hardwoods.