NAIL WITHDRAWAL OF THREE SELECTED MALAYSIAN TIMBERS

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CANDIDATE'S DECLARATION

I declare that the work in this thesis was carried out in accordance with regulation of Universiti Teknologi MARA. It is original and is the result of my work, unless otherwise indicated or acknowledged as referenced work. This thesis has not been submitted to any other academic institution or non-academic institution for any other degree or qualification.

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ABSTRACT

NAIL WITHDRAWAL OF THREE SELECTED MALAYSIAN TIMBERS

The study was carried out to determine the right selection of the nail based on the intended purpose while doing nailing process towards Malaysian timber spp and to determine the holding strength properties of nails on the Malaysian timber, spp. also to evaluate the suitability of nail on different category of Malaysian timber spp. that species are Sesenduk (Endospermum Spp), Semarak Api (Delonix Regia, Spp) and Resak (Vatica, Spp). Three samples of each species were produced in size 100mm x 100mm x 100mm with using a common nail. Based on the results of this study it was found that the density of wood affected the withdrawal strength of nailing. That showed in the statistical analyses higher density of species is highly significant. The lowest density of species are suitable use common nail as a fastener in furniture manufacture.
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