

**FACTORS AFFECTING FORMALDEHYDE EMISSION IN
PARTICLEBOARD MANUFACTURING**

MOHD ZAHID BIN JAAFAR

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Sign of Candidate : 

Name of Candidate : Mohd Zahid Bin Jaafar

Candidate ID No. : 2014854928

Program : Bachelor of Sciences (Hons.) Furniture Technology

Faculty : Applied Sciences

Thesis Title : Factors Affecting Formaldehyde Emission in Particleboard Manufacturing

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ABSTRACT

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The aim of this study was to identify the formaldehyde emission release in manufacturing industry by using rubber wood, tropical wood and mixed wood. Type of resin that was used in this process was SE0, E0 and E1. This study divided into two test which were emission release and mechanical testing. In a formaldehyde emission testing there were used perforator and desiccator compared to mechanical strength using instron machine. From the result showed that tropical wood have a smallest number of formaldehyde emission compared to others. In mechanical testing tropical wood also have a greater strength followed by mixed wood and rubber wood.

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