

**PROPERTIES OF OSB FROM *ANTHOCEPHALUS CHINENSIS* AND
CASTANOPSIS SPP AT DIFFERENT BOARD DENSITY, RESIN CONTENT
AND STRAND SIZE**

By

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TABLE OF CONTENT

TITLE	PAGE
APPROVAL SHEET.....	i
DEDICATION.....	ii
ACKNOWLEDGEMENT.....	iii
LIST OF FIGURE.....	vii
LIST OF TABLE.....	viii
LIST OF PLATES.....	ix
LIST OF ABBREVIATIONS.....	x
ABSTRACT.....	xi
ABSTRAK.....	xii

CHAPTER ONE

1.0 INTRODUCTION

1.1 Wood Composite.....	1
1.2 Problem Statement.....	2
1.3 Objectives.....	2

CHAPTER TWO

2.0 LITERATURE REVIEW

2.1 Kelempayan (<i>Anthocephalus chinensis</i>).....	4
2.1.1 Characteristic of <i>Anthocephalus chinensis</i>	4
2.1.2 Properties of <i>Anthocephalus chinensi</i>	5
2.1.3 Habitat Description.....	5
2.2 Berangan (<i>Castanopsis spp</i>).....	5
2.2.1 Characteristic of <i>Castanopsis spp</i>	6
2.2.2 Properties of <i>Castanopsis spp</i>	6
2.2.3 Habitat Description.....	6
2.3 Oriented Strand Board (OsB).....	7
2.3.1 History of OSB.....	8
2.3.2 Type of OSB.....	9
2.3.3 OSB process.....	10
2.3.4 Structure of OSB.....	11
2.3.4.1 Board Dimensions.....	11
2.3.4.2 Particles size and shape.....	12
2.3.4.3 Particle Alignment.....	12

2.3.4.4 Structural Stability.....	13
2.3.5 Uses of Oriented Strand Board.....	13

CHAPTER THREE

3.0 MATERIAL AND METHOD

3.1 Material.....	14
3.2 Raw Material Preparation	14
3.2.1 Felling the tree.....	14
3.2.2 Debarking	15
3.2.3 Cut to length.....	16
3.2.4 Cut to billets.....	16
3.3 Material Preparation.....	17
3.3.1 Stranding.....	17
3.3.2 Air-Drying.....	18
3.3.3 Oven-Drying.....	19
3.4 Board Making Process.....	19
3.4.1 Glue Blending.....	20
3.4.2 Forming.....	21
3.4.3 Cold Pressing.....	22
3.4.4 Hot Pressing.....	22
3.4.5 Conditioning.....	23
3.5 Trimming.....	24
3.6 Board Testing.....	25
3.6.1 Mechanical Strength Properties.....	26
3.6.1.1 Modulus Elasticity & Modulus of Rupture.....	26
3.6.1.2 Internal Bonding.....	27
3.6.2 Physical Strength Testing.....	28
3.6.2.1 Thickness Swelling & Water Absorption.....	28
3.7 Data Analysis.....	29

CHAPTER FOUR

4.0 RESULT AND DISCUSSION

4.1 Mechanical & Physical properties.....	30
4.2 Statistical Significance.....	32
4.3 Effect of board density.....	33
4.4 Effect of Resin Content.....	34
4.5 Effect of strand size.....	36

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ABSTRACT

Oriented Strands Board (OSB) was produced from strands of wood sliced. The strands were arranged alternately to each layer. In this study, Berangan (*castanopsis spp*) and Kelempayan (*anthocephalus chinensis*) species were used to produce 700kgm-3, 600kgm-3 and 500kgm-3 with the resin content 9%, 7% and 5% and strands size 15mm and 8mm to identify the properties and physical properties of the OSB. The result show that the strength properties of OSB namely the Modulus of Rupture (MOR) and Modulus of Elasticity (MOE) and Internal Bonding (IB) and increasing in the resin content resulted in low water absorption and thickness swelling. Based on the mechanical & physical properties, Berangan (*castanopsis spp*) and Kelempayan (*anthocephalus chinensis*) species can be used as raw material for the OSB making.