

**PROPERTIES OF CEMENT BOARD FROM DIFFERENT
PARTICLE GEOMETRY AND LAYER OF OIL PALM TRUNK
(OPT)**

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TABLE OF CONTENTS

	Page
APPROVAL SHEET	ii
ACKNOWLEDGEMENTS	iii
TABLE OF CONTENTS	iv
LIST OF TABLES	vi
LIST OF FIGURES	vii
LIST OF PLATES	viii
LIST OF ABBREVIATIONS	ix
ABSTRACT	x
ABSTRAK	xi
CHAPTER 1 INTRODUCTION	
1.1 Background of study	1
1.2 Problems statement	3
1.3 Scopes and limitation of the study	4
1.4 Objectives of study	4
CHAPTER 2 LITERATURE REVIEW	
2.1 Oil palm	5
2.1.1 Oil palm crops	5
2.1.2 Malaysia production	6
2.1.3 Anatomy of oil palm trunk	7
2.2 Wood composite product	8
2.2.1 Cement board	8
2.2.2 Properties of wood cement board	10
2.2.2.1 Workability	10
2.2.2.2 Fungus and termites resistant	10
2.2.2.3 Sound insulation	10
2.2.2.4 Health safety	11
2.2.2.5 Fire resistance	11
2.2.2.6 Utilization	11
2.2.3 Uses of wood cement board	12
2.2.3.1 Partition and wall	12
2.2.3.2 Permanent formwork	12
2.2.3.3 Fire safety requirements	12
2.2.4 Factors affecting board properties	13
2.2.4.1 Particle size	13

CHAPTER 3 METHODOLOGY

3.1	Manufacturing steps	14
3.1.1	Materials preparation	15
3.1.2	Mixing	17
3.1.3	Mat forming	19
3.1.4	Cold press, hardening and conditioning	20
3.1.5	Cutting and board evaluation	21
3.2	Mechanical test	22
3.2.1	Bending test	22
3.2.2	Internal bond test	22
3.3	Physical test	22
3.3.1	Thickness swelling and water absorption test	22
3.4	Analysis	23

CHAPTER 4 RESULTS AND DISCUSSIONS

4.1	Mechanical and physical properties of WCB according to different layers and particle size	24
4.2	Statistical significance	25
4.3	Effect of OPT layer onto mechanical properties	26
4.4	Effect of particle geometry onto mechanical properties	28
4.5	Effect of OPT layer onto physical properties	29
4.6	Effect of particle geometry onto physical properties	30

CHAPTER 5 CONCLUSIONS

5.1	Conclusion and recommendations	32
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REFERENCES	34
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APPENDICES	38
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CURRICULUM VITAE	64
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ABSTRACT

PROPERTIES OF CEMENT BOARD FROM DIFFERENT PARTICLE GEOMETRY AND LAYER OF OIL PALM TRUNK (OPT)

The objective of this study is to investigate the physical and mechanical properties of cement board from different particle geometry and layer of oil palm trunk (OPT) and were evaluated based on Malaysian Standard (MS 544: 2001). Variable factors were layers of OPT (L1, L2 and L3) and particle geometry (Unscreen, 1.0mm and 2.0mm). The physical and mechanical data were analyzed using statistical package for social sciences (SPSS) software to determine significant different of the variable. From this study, layer 2 of OPT results in higher mechanical and physical strength than other layer. Meanwhile for particle geometry, unscreen particle size also produce a significant difference in term of mechanical and physical properties of board, thus result in stronger board.