## APPLICATION OF FASTENER IN TABLE AND CHAIR CONSTRUCTION

## CYPRIANO MANSUAN

# DIPLOMA IN WOOD INDUSTRY UNIVERSITI TEKNOLOGI MARA PAHANG APRIL 2011

#### ACKNOWLEDGMENT

Firstly, goodies large appreciation and sincere gratitude to my only project advisor, Miss Siti Zalifah bt. Mahmud also as the head program of Wood Industry and my project lecturer Mr. Wan Mohd Nazri bin Wan Abdul Rahman for the great lecture, support and guidance throughout the study.

Secondly, thanks to my all friend which directly or indirectly give important support and information towards the completion of this study.

Lastly, my sincerely and deepest appreciation for my beloved parents. Mom and dad, thanks a lot for the support love you all and may god bless all of you.

## TABLE OF CONTENTS

Title	p	ages
APPROVEL SHEET		ii
DEDICATIONS	•••••	iii
ACKNOWLEDGMENTS	••••••	iv
TABLE OF CONTENTS	•••••	v
LIST OF TABLES	•••••	v
LIST OF FIGURES	•••••	vii
ABSTRACT		ix
ABSTRAK		x

## **CHAPTER 1: INTRODUCTION**

1.1 General	1-2
1.2 Objectives	2
1.3 Justification	2

## **CHAPTER 2: OVERVIEW OF FASTENER**

2.1 Introduction	3
2.1.1 History of Fastener Industry	3-4
2.1.2 Importance of Fastener	. 5
2.1.3 Fastener Properties	. 6

2.1.4 Fastener Quality
2.1.5 Fastener Material 7
2.1.6 Application of Fastener in Industry
2.1.7 Market Specific Specialty Fastener
CHAPTER 3: TYPES OF FASTENER
3.1 General Types of Fastener 12
3.2 Specific Types and Used of Fastener
3.2.1 Bolts, Nut, Washer and Screw
3.2.2 Keys, Pins, Rings and Rivets
3.2.4 Nails 21-22
3.3 Fastener Specification 23
CHAPTER 4: APPLICATION OF FASTENER IN CHAIR AND TABLE CONSTRUCTION
4.1 Application of fastener in tables construction
4.2 Application of fastener in chair construction
CHAPTER 5: CONCLUSION
REFFERENCES
<b>APPENDIX</b>

### LIST OF TABLES

...... 42

VITA.....

#### APPLICATION OF FASTENER IN TABLE AND CHAIR CONSTRUCTION

By

#### CYPRIANO MANSUAN

#### APRIL 2011

#### ABSTRACT

This study is carried out to study types of fastener and the application of fastener in chair and table construction. From the research and reading, there are many types of fastener used in furniture industries especially in table and chair construction. This study describes the general types of fastener used as it application in chair and tables construction. There are choosing that mostly problem in making furniture is what types, size and material used of fastener. This research was done to solve this problem, as the suitable listed fastener is knowable. For example screw and nails were the most common fasteners used in furniture as they become functional to join. As the main point before install a fastener in chair or table construction was it functions.