

PINE BOARD STORAGE KEEPER

**MOHAMAD ASYRAAF BIN BIN MD JOHARI
(2019478808)**

**BACHELOR OF SCIENCE (Hons.) FURNITURE
TECHNOLOGY FACULTY OF APPLIED SCIENCES
UNIVERSITI TEKNOLOGI MARA**

AUGUST 2021

ABSTRACT

PINE BOARD STOREGE KEEPER

This final year project attempts to create a storage keeper that can hold a miscellaneous of objects. The pine board storage is manufactured with the accepted output characteristic of client requirements and wants, as it is developed for a diverse use by adding aesthetic value. Pine Board is a material that could be used. The overall structure of the storage keeper will be made of pine board, which will be combined with epoxy resin and glass as the storage keeper's top. Several processes had involved into the design of this Pine Board Storage Keeper. Starting with data collecting and progressing through the manufacturing process and prototype confirmation. A study of 155 people was conducted to assess customer satisfaction with the Pine Board Storage Keeper's material, design, marketing, and price. The survey also were evaluated by such a different variable, age, gender, profession, and household. The survey was resulted as most of the variable were agreed and satisfied with design, and satisfaction of this Pine Board Storage Keeper.

ACKNOWLEDGEMENT

First and first, I would want to express my gratitude to Allah, who has given me the most valuable chance to complete this study, as well as to provide me peace of mind in overcoming all of the struggles in completing this project properly. Thank you so much to my committed supervisor, Nurrohana binti Ahamad. who has provided assistance and what I require to complete the research project. Aside from that, I'd want to express my gratitude to Dr. Siti Zalifah Binti Mahmud for her assistance in finishing my final year project.

I'd want to express my gratitude to all of my family and friends for their encouragement and support during my endeavour. My gratitude also goes out to my family and friends for all of their help and encouragement. Finally, I'd like to thank InaKraf for the traineeship that enabled me to complete this project.

Mohamad Asyraf bin Md Johari
2019478808

TABLE OF CONTENT

	Page
APPROVAL SHEET	ii
ABSTRACT	iii
ABSTRAK	iv
ACKNOWLEDGEMENT	v
TABLE OF CONTENT	vi
LIST OF TABLES	viii
LIST OF FIGURES	ix
LIST OF ABBREVIATIONS	x
CHAPTER 1 INTRODUCTION	1
1.1 Background of study	1
1.2 Problem statements of study	3
1.3 Significance of study	4
1.4 Objectives of study	4
CHAPTER 2 LITERATURE REVIEW	5
2.1 Furniture Design	5
2.2 Storage keeper	6
2.3 Anthropometry and Ergonomic	7
2.4 Furniture Marketing	8
2.5 Target User	10
2.6 Raw Material	10
2.6.1 Pine Board	10
2.6.2 Glass	11
2.6.3 Resin	12
2.7 Fastener and Connector	13
2.7.1 Screw	13
2.7.2 Hinges	14
CHAPTER 3 METHODOLOGY	16
3.1 Material	16
3.2 Methodology	16
3.3 Product Design Process	17
3.3.1 Collecting Information	17
3.3.2 Problem Identification	18
3.3.3 Research Analysis	18
3.3.4 Design Process	18
3.3.5 Mock-up Building	22
3.3.6 Virtual Prototype	23

3.4	Product Manufacturing Process	24
3.4.1	Material preparation	25
3.4.2	Cutting process	26
3.4.3	Carving	27
3.4.4	Sanding	28
3.4.5	Assembling	29
3.4.6	Finishing	31
CHAPTER 4 RESULT AND DISCUSSION		33
4.1	Introduction	33
4.2	Reliability Analysis	33
4.3	Demographic Analysis	34
4.4	Descriptive Analysis	35
4.5	Comparative Analysis	40
4.5.1	Gender	40
4.5.2	Age	42
4.5.3	Profession	43
4.5.4	Household	45
4.6	Correlation Analysis	46
CHAPTER 5 CONCLUSSION AND RECOMMENDATION		50
5.1	Conclusion	50
5.2	Recommendation	50
CITED REFERENCES		52
APPENDICES		55
CURRICULUM VITAE		69