

UNIVERSITI TEKNOLOGI MARA

**DESIGN AND FABRICATION OF
SMART BOX CONCEAL FOR
LETTER AND PARCEL**

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ABSTRACT

This The mailing system is the important to our daily life. The letter is sent to our building and placed by the postman in the mailbox. Mailbox is placed for letter and parcel which located before the building or entrance. Mailbox is essential to protected and defend the letter and parcel from missing. The purpose of this project is to design and fabricate an innovative smart box conceal which protect the letter and the parcel from damage or lost. Most parcel are being thrown, damage and stolen. With this project, all these problems can be solved, and the parcel are guaranteed to be delivered in a safe condition. To ensure that the product can be used in any bad condition and long use, a suitable material such as aluminum and steel will be used. Bending process, and other manufacturing processes are also included. Finished product should have a fit of size at maximum dimension 40cm x 35cm x 65cm and can store letter and parcel in safe condition. Also, secure them from being stolen.

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CHAPTER ONE

INTRODUCTION

1.1 Background of Study

The mailing system is very essential to us as the letter and the parcel will send to us house and will be placed in the mailbox by the postman. Mailbox is important to protect the mail from damaged and missing. This project was designed because of a problem a consumer encountered when not knowing when an item was received. The mailbox is very essential for some individuals. It is dependent on the client's mail. For instance, lawyers, bankers, internet businesses and writers need their client's feedback letter as the foundation for progress and company success. In addition, some countries have mail robbery issues, either stolen their mail or item smashed their post box. This project is the design and creation of box conceal that will protect items from damage or loss. Most of the goods were broken, damaged and stolen. With this project, all these problems are solved, and the goods are guaranteed to be shipped in a safe condition. A suitable material such as aluminum and steel will be used to ensure the usability of the product in all adverse conditions and long-term use. It also includes the welding process, bending and other manufacturing processes. The finished product should be of a suitable size with a maximum size of 40cm x 35cm x 65cm and keep the letter and the parcel in a safe condition. Also save them from theft.

1.2 Problem Statement

Nowadays, most parcel and letter boxes are now in the part of household items. Therefore, it will be less secure if someone leave the letter and the parcel too long in the box. In everyday life, there are certain difficulties that they often face in terraced, residential, office and apartment buildings with little time to constantly check mail and consignments due to the central location of the boxes. Therefore, this will waste the user time to check their parcel and letter boxes daily. Besides that, problems happen when an individual does not know or be informed of latest mails or parcel in their postbox. The possibility of an important letter requiring immediate action or missed out on a