

DEPARTMENT OF BUILDING SURVEYING FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING UNIVERSITI TEKNOLOGI MARA

A STUDY ON FLAT ROOF CONSTRUCTION IN MALAYSIA

This academic project is submitted in partial fulfillment of the requirement for the Bachelor Of Building Surveying (Hons.)

AZRUL HANAFI BIN ABDULLAH SANI (2006699614)

MAY 2008

ACKNOWLEDGEMENT

During preparation of this study, there have been a lot of people that give all the supports and assistances to me. Indeed, without all the helps from the involved people, this study and report preparation process would not be done properly. Among people that I would like to thanks because of all their kindness are:-

- All lecturers in the Department of Building Survey especially En. Shafiq Salehuddin, my supervisor, thanks for all the advices, directions and lessons not only during this study but also in whole time while studying in Degree of Building Survey. Thanks for all the assistances in preparing this study.
- My parents and family of course that supports me in every second in the way of finance but especially the moral supports and their blessings.
- All respondent that gives cooperation with my interview. Thank to En.
 Mohamad Shani Awalludin and En. Mohd. Ikhwan Ismail from Facility
 Management Department UiTM Shah Alam.
- All parties that involved in direct or indirect that I could not put all in here, thank you a lot.

Last but not least, again, thanks for all the people that I did mention before. Hope that all the kindness is returned double by Allah S.W.T.

ABSTRACT

Flat roof is another roof cover that always been use in Malaysia construction industry. The roof is easy to construct and more time consuming as well as the cost to build it is much cheaper that pitch roof. But today we have heard a lot problem about flat roof that have been show in television, internet or newspapers. Why all this suddenly happen in Malaysia? Everything can be a factor to this situation.

Therefore this study is about flat roof construction in Malaysia. That objective is focusing on the flat roof construction in Malaysia, to identify the building that applies flat roof and it consideration and lastly to identify the flat roof problems and come out with suitable solutions on flat roof construction in Malaysia.

CONTENTS

TOPIC	PAGE
TITLE	I
STUDENT DECLARATION	п
SUPERVISOR DECLARATION	ш
ACKNOWLEDGEMENT	IV
ABSTRACT	V
CONTENTS	VI
LIST OF FIGURE	XII

CHAPTER 1 – INTRODUCTION

1.1	Introduction	.1
1.2	Research background	2
1.3	Aim and objectives	3
1.4	Scopes of study	3
1.5	Issue of the topic/problem statement.	4
1.6	Methodology	7
1.7	Data collection	
	1.7.1 Primary data collection	9
	1.7.2 Interview	9
	1.7.3 Condition survey	9
	1.7.4 Secondary data collection	10

CHAPTER 1

INTRODUCTION

1.1 Introduction

Building is a very valuable asset. Building usually functions as place for economic activities. It also use as a place for the building occupants to work and resting. A suitable selection of roof may increase the life of the building as well as gift more comfort to the building occupants. Usage of flat roof is not a best roof for building but in circumstances it can be consider being use.

With the growth of construction industry also help to generate Malaysia economic to a better situation. Right now, many incidents about flat roof leakage have been first page news on the Malaysia newspaper. To construct a good flat roof, it needs knowledge about construction technology, material and the most important is maintenance.

The most common source of water leakage is through structural defects such as crack and void, or through construction and control joints. Below grade area susceptible to fluctuating water tables while horizontal decks are susceptible to ponded water.

1