



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

**A STUDY OF WATERPROOFING FAILURES FOR FLAT ROOF AND
METHOD OF RECTIFICATION**

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

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DEPARTMENT OF BUILDING SURVEYING

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RECTIFICATION

"I hereby declare that this academic project is the result of my own research
except for the quotation and summary which have been acknowledged"

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ABSTRACT

Waterproofing in a building structure is a critical element of its design and construction. Because of the damaging effect of water, particular attention should be given in selecting quality waterproofing material to provide the proper in place performance. Waterproofing material life is shorter than building. Apart from that it should meet or exceed the client's requirement. A good construction method is a systematic working procedure that needs to be established, implemented and maintained. Therefore, construction method of flat roof needed a proper and systematic method of construction.

The conceptual knowledge such as definition and objective of waterproofing are explained in the literature review. A study was conducted to investigate type of waterproofing for flat roof, causes of waterproofing failure and common defect of flat roof and also type and method of rectification for waterproofing failure. The data gathered using the defect list and questionnaire.

The result indicated that a good roof design in early stage of planning is very important in order to maintain the quality of reinforced concrete flat roof, particularly in determine the gradient that is to comply with the guideline and appointing roof specialist is highly recommended to overcome these flat roof leakage problems.

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