UNIVERSITI TEKNOLOGI MARA
PERAK BRANCH

REVERSIBLE WINDOW WITH LOW-E GLASS

MOHAMAD ZULHILMI HAZIQ BIN MOHD ALI

BSc

AUGUST 2022

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Innovation project report submitted in partial fulfilment of the requirement for the degree of

Bachelor of Science (Hons.) Construction Technology

Faculty Of Architecture, Planning and Surveying

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AUTHOR'S DECLARATION

I declare that the work in this innovation project report was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work, unless otherwise indicated or acknowledged as referenced work. This topic has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

In the event that my innovation project report, be found to violate the conditions mentioned above, I voluntarily waive the right of conferment of my degree and agree be subjected to the disciplinary rules and regulations of Universiti Teknologi MARA.

Name of Student	:	Mohamad Zulhilmi Haziq Bin Mohd Ali
Student I.D. No.	:	2020452806
Programme	:	Bachelor of Science (Hons.) Construction Technology
Faculty	:	Department of Built Environment Studies and Technology
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Student's Signature	:	……
Date	:	August 2022

ABSTRACT

In this era, green building has become sensation worldwide. Regarding to the environmental sustainability, all parties has taken these issues seriously. Malaysia is one of the countries that involve in Sustainable Development Goals agenda. To promote sustainable development, Malaysian government issued the Green Technology Policy in July 2009. This report is aligned to the sustainable objectives of the policy by implementing idea of generating a product that able to improves the sustainability of building. Window had been chosen to be the element of the innovation. Windows design have significant impact on the sustainability of a building. This element plays a crucial role in determining the energy performance of the building. This report will analysis and find a solution to create a product that able to achieve the sustainability perspective and the goal of green campus. Various study had been made such as the goals of Sustainable Goal Development, green campus concept and type of current windows used for student's accommodation in UiTM Seri Iskandar. The purpose of this report is to make an improvement for windows in terms of design, materials and type of glass panel.

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