

UNIVERSITI TEKNOLOGI MARA PERAK BRANCH

WOOD FIBER GLASS CEMENT BOARD

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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.

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CHAPTER 1 INTRODUCTION

1.1 Introduction to the Precast Lightweight Wall Panel

A wall is one of the buildings components. Globally, the usage of concrete panel walls in buildings are increasing significantly. The precast concrete panel wall is a flexible component that may be utilized in building design as structural, an architectural or a mix of both. Prefabricated concrete wall panel as previously indicated, can be constructed as load bearing or non-load bearing components. Therefore, wall panel have replaced traditional walls as the preferred choice due to its ability to speed up the construction process, provide dependable quality control and be cost effective. In addition, panel walls are mass produced in factories or in open areas near the building sites. After a few days, the wall panels are old and sturdy enough to use and the quality is also controlled based on the calculations (Muhammad Ujianto, Ahmad Zurisman Mohd Ali, Mohamad Solikin, 2019).

A Green Campus is a concept that encourages long-term growth. However, a green campus must meet a few requirements, including the design and condition of campus buildings and infrastructure, energy consumption and climate change mitigation, integrated waste management, efficient water use, and environmentally friendly transportation and education. The term “sustainably developed” often refers to the development that considers and incorporates environmental factors into all stages of its process. The connection between a green campus and the notion of sustainable development is made possible via the implementation of environmentally friend activities tailored particularly for colleges. The green campus also, on the other hand, examines the key elements of other green ideas,