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FLOOR SLAB CONSTRUCTION

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ABSTRACT

Floor slab is an important structure that bears load from above. Hence, this report will discuss in detail about the construction of a floor slab. This report is produced based on the concrete floor slab structure at a multipurpose hall in Bagan Datuk, Perak. The objective of this report is to investigate the method statement of floor slab installation. From this, we can understand the details of a floor slab thoroughly. This is also to solve the occurring problems associated to construction stage. It is to demonstrate the construction of floor slab via its structure, process of installation and post-installation. This report will provide a proper guide in improving a floor slab after several outcomes in different point of perspective so that the impact could be brought through innovation and technology.

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CHAPTER 1.0

INTRODUCTION

1.1 Background of Study

Floor slab is a basic structure laid on ground or on another level horizontally. It supports dead load and live load. From the load above, it will be evenly distributed to the foundation or column structure below. Floor slab also determines the floor level and diminishes it with each level. The top part of floor slab can be finalized with various types of finishes for decoration and aesthetic purposes, ranging from different types of materials available such as timber strips, tiles, mosaic, carpet and others. Most of floor slab is supported by frame structure like horizontal beams and ground beams. Throughout the construction application, several types of floor slab were invented and being widely used in Malaysia. These floor slabs are hollow-core slab, suspended slab, waffle slab, precast concrete slab, composite slab and many more.



Figure 1.1: Hollow-Core Slab

Source: Aran Concrete Co. Ltd. (2017)

Hollow core slab is a precast concrete slab used widely in flooring system. The structure consists of rows of cylindrical-like voids along the slab. They are proven to be more lightweight than normal precast slab since the structure itself uses less amount of concrete. The load bearing capacity for prestressed hollow core slab are also higher. “The live load is distributed over multiple slabs by the joints” (Hoogenboom, 2005). Thus, the application of this slab can be found everywhere. The load bearing characteristic is very