

CONSTRUCTION OF A FOOTBRIDGE 1.5M X 6.0M USING HYPERTUFA AS A CONSTRUCTION MATERIAL

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ABSTRACT

This project is about the design of a **hypertufa footbridge*. It's concerned about the understanding of the composition, properties, performance and applications of this construction of load supporting structure. Hence, by working and by analyzing this project, the suitability and the reliability of this material can be determined. This report involved the analysis and hand-on experiment on *hypertufa*, and also the design of a footbridge.

The scopes of the project are designing a simple footbridge and laboratory work will be required to determine certain properties of *hypertufa*. And the approaches of this project are by practicing making *hypertufa* and compressive strength is determined. It is assumed that *hypertufa* is weak in tensions and the reinforcing steel bars will be required.