

Design a Three Storeys Shopping Mall to BS8110

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ABSTRACT

In this project, I have designed a three storeys shopping mall in both architectural and engineering wise. This shopping mall is 7500m² big, and is located in Penang. For this shopping mall structure, I have designed the layout plan of the shopping mall, and also all the different views of the shopping mall such as front view and side view.

For this structure, I have chosen to use reinforced concrete as the main construction material as this is the most economical and more appropriate for a superstructure like shopping mall. All members such as slabs, beams, columns and footing have been designed with accordance to British Standard Guideline, BS8110.

All the structural design theories are attached to the main part of this report. All calculation, dimension and reinforcements, and architectural and structural drawings have been tabulated in appendix.