

# THE DESIGN OF A DOUBLE STOREY DETACHED TIMBER HOUSE

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## ABSTRACT

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The project is composed of two main parts; theory part and calculation part. Theory part is consisting of construction, design, result and analysis. For my project the design is divided into various parts which are main building, living room and car porch. The calculation part is based on the design part which consists of calculation to choose the most suitable dimension and material for the member in the design house depends on the conditions that state in the British Standard code.

On this page, I will briefly the steps of designing the double storey timber detached house. First of all, I started off with the roof trusses to design the member in the trusses and get the force that will act on the beam. From there I move on to the beam, beam should design satisfy in compression and shear that capable to take loading from trusses, self-weight for itself and self-weight of ceiling. Before design column, I should design for slab first because the self-weight of slab will act to column also. Once the loading of trusses, beam and slab is know, including self-weight of the ceiling, the loading acting on the column could be found.

Generally, the entire thing is the basic thing to design for a double storey timber house. The detail will list out in the coming out pages.