

LAYING A STRONG FOUNDATION

By: Eco-Works Construction Limited

The strength of a building lies in its foundation. Constructing a strong Foundation of the building ensures the durability of the building. On the contrary, a poorly Constructed foundation can be dangerous to the occupants and the neighborhood. Therefore it is highly essential to ensure a Strong foundation is made during Construction. How we achieve this is by carefully following the above procedures:

- Carrying out Feasibility studies where we look at the site condition and its topography.
- We ensure thorough investigation of the soil condition of the land; many times it requires special foundation/treatment as the soil may not have desired load carrying capacity.
- Have the lot Surveyed. This is to determine and locate the actual corners of the foundation so that the entire foundation can be formed.
- Anti-termite treatment is an important step to protect your building and foundation from the termite attack. The soil around the foundation needs to be treated up to the plinth level with appropriate chemicals.
- Compaction of the excavated soil top layer and providing a layer of Brick flat soiling on top of it. Thereafter, lay in a thin layer (50 to 75 mm thickness) of lean concrete.
- The Formwork should be made as per the size of the Footing and sufficiently rigid so that there should not be any displacement while placing reinforcement bars and laying & compacting of the concrete.
- Seal the footing to protect them from moisture. Ensure to purchase high quality sealer.
- Reinforcement the placing and fixing of Rebar to be done properly with adequate concrete cover blocks to avoid any displacement of Rebar while pouring the concrete.
- Pouring of concrete into the Footing. The concrete should be as per the approved design grade which the standard is 1:2:4.
- Curing should start early and should be continued for sufficient period to ensure that it develops the desired strength and does not crack. Treat the Foundation walls with another round of sealer to keep moisture out. Acrylic- based sealers can be applied immediately after finishing the concrete and they act in many regards as a curing compound as well as sealer.

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