CHAPTER 3

MATERIALS AND METHODOLOGY

3.1 INTRODUCTION

This chapter will describe the procedure and execution of works in details. It will discuss from the preparation of sample to the testing procedure that involved in this study.

3.2 SAMPLE PREPARATION

The material that will be used to produce the interlocking block need to be prepared first. The materials used are cement, fine aggregate, laterite soil.
3.2.1 Cement

There are mixed bags of concrete accessible in the business. For this study, the Ordinary Portland Cement (OPC) is chosen. The choice focused around the regular practice as this kind of bond is generally utilized as a part of development procedure.

There are a lot of cements available but for this studies OPC is used because it is the most common and widely used in the market.

3.2.2 Laterite Soil

Laterite soil is obtained from nearby location at University Malaysia Pahang and used as one of the component of the interlocking block where the laterite soil will be mix with the cement and sand in the proportion of 1:4:2:6.

3.2.3 Fine Aggregate

In this study, fine sand or river sand will be used as fine aggregate. River sand is the most commonly and easiest fine aggregate that can be get from the supplier.

3.2.4 Sawdust

Sawdust can be getting from the sawmill nearer, Sawmill Gambang Sdn Bhd, and will be used as one of the infill in the interlocking block wall.
3.2.5 Styrofoam

Styrofoam can be getting from any bookstall nearer and will be used as one of the infill in the interlocking block wall.

3.2.6 Water

Water is required in mixing procedure. The amount water content will be used for mixing process is 10% from the weight of the sand.

Figure 3.1: Styrofoam board