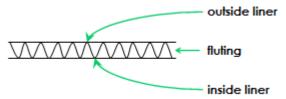


# **Technical Explanation of Corrugated Board**

# 1. Understanding Corrugated Board



A standard sheet of corrugated board is made from three components: a sheet of corrugated fluted paper, sandwiched between an outside liner and an inside liner. Each side of the fluting is glued to a sheet of flat liner paper (see diagram).

This gluing fixes the flutes and also gives the lightweight paper especially high stability.

# 2. Types of Paper

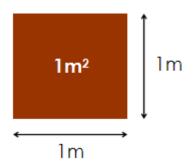
The basic material for the production of corrugated board is paperboard. There are two main types of paperboard: Kraft and Test.

**Kraft paper**. Comes from softwood trees – the strongest form of paper and the best to print on this is the most common outside liner for corrugated boxes.

**Test paper**. This is a so-called double layer paperboard (duplex paper). Most standard cartons use recycled paper for the fluting and the inside liner.

Each sheet of liner paper is commonly composed of two layers. The finer cover layer is ideal for printing and aesthetics, and the basic layer is excellent for adhesion and strength.

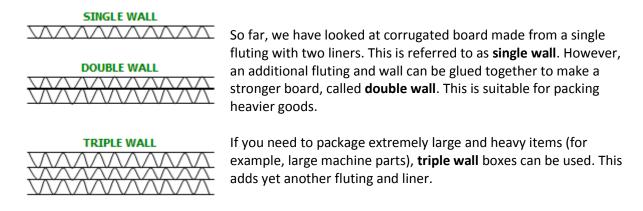
### 3. Paper Weight



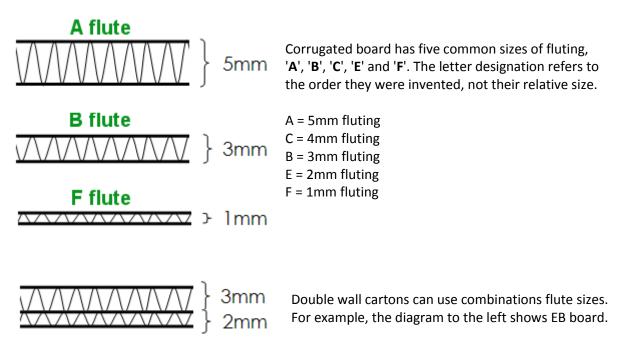
After understanding the paper type, the next thing to look at is the thickness. This is measured the same way for all papers.

Take one square meter of your paper and weigh it. The result is XX grams per square meter (which is abbreviated to **gsm**). E.g. photocopy paper = 80gsm

# 4. Corrugated Walls



#### 5. Common Flute Sizes



### **6. Board Grade Explanation**

Combining all of the above, it is possible to specify a simple short description that defines the board grade of a box. For example: **125K/B/125T**.

This means a corrugated box, made from 125gsm Kraft outer liner, B fluting and 125gsm Test inner lining.