

ADOPTING PERFORMANCE BASED SPECIFICATIONS FOR BETTER CFC's.

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P A C K A G I N G

P r i v a t e L i m i t e d

Material Based Specification

- Historically, the industry standard has been specifying material rather than performance parameters.
- Specification talks about Basis Weight and Burst factor only.
- This results in the box parameters, specifying a Minimum Weight and Bursting Strength.
- Consequently Higher Cost of the Box.

Performance Based Specification

- Adopting Performance Based Specification will lead to more optimized use of materials leading cost reductions.
- Performance Standards that have achieved widespread acceptance are, the Edge Crush Test (ECT) and Box Compression Test (BCT).
- These are true performance tests and are directly related to the stacking strength of a carton.

Performance Based Specification

- ECT is a measure of the Edgewise Compressive Strength of the Corrugated Board.
- The fundamental difference between the two specifications is that under the Material based specification, a minimum Board Basis Weight and Burst factor, is required.

Performance Based Specification

- The Performance Based Spec's (PBS) eliminates this requirement.
- PBS allows the use of lighter weight materials, still providing higher performance.
- When you are comparing two identically sized cartons with equivalent strengths, one being BS rated and one being ECT/BCT rated, the ECT/BCT rated carton will weigh less.
- In other words the ECT rated carton will use less corrugated material.

Performance Based Specification

- Performance specifications like BCT/ECT and FCT can reduce board consumptions up to 15%.
- The ECT has been shown to be related primarily to:-
 - The cross direction Ring Crush Strength of the Linerboard and the Medium, and
 - The quality of the Board/Box Plant Converting Operations.

Performance Based Specification

- The average Edge Crush Test (ECT) and the Compression Strength (BCT) is adversely affected because ..
 - A lower Single-Face Pin Adhesion Bond Strength,
 - A greater angle of Leaning Flutes,
 - A greater percentage of High/Low flutes and
 - Crushing of the Combined Board.

New Technology : M A P Advantages

- We can eliminate issues like Pin Adhesion bond strength, Leaning Flutes, High/Low Flutes, and Crushing of the Board, by using Better Equipment.
- New mantra –
 - Better **M**achines
 - More **A**dvantages
 - Good **P**rofits

New Technology : M A P Advantages

- New Equipment can offer better strength with lesser material use.
- The purpose of this presentation is to initiate a debate with our value partners so that the expertise of the Box Maker can be put to good use.
- If the same Material is to be used with new technology on offer, then is it not a criminal waste of resources; money & material ??

A Glimpse of the New Technology



THANK YOU

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