



**AMERICAN BOX**

## **CORRUGATED BOX GUIDE**

### ***Strength Testing***

There are two test measures used across the corrugated industry to determine strength. The Bursting (Mullen) Test is related to the rough handling durability of corrugated material. The Edge Crush Test (ECT) is a newer standard that has achieved widespread acceptance as a true performance test that is directly related to the stacking strength of a carton. American Box & Recycling Company works with both strength measures and can help you determine your box strength needs and comparative measures.

ECT is a measure of the edgewise compressive strength of corrugated board. It is measured by compressing a small segment of board on edge between two rigid platens or plates perpendicular to the direction of the flutes until a peak load is established. This is measured in pounds per lineal inch of load bearing edge (lb/in), but usually reported as an ECT value (for example, 44 ECT).

### ***Strength Guidelines***

32 ECT is equivalent to a 200 lb. Single Wall  
*(holds up to 40 lbs.)*

44 ECT is equivalent to a 275 lb. Single Wall  
*(holds up to 65 lbs.)*

48 ECT is equivalent to a 350 lb. Single Wall  
*(holds up to 80 lbs.)*

32 ECT / 200 lb. Double Wall  
*(holds up to 60 lbs.)*

44 ECT / 275 lb. Double Wall  
*(holds up to 80 lbs.)*

48 ECT / 350 lb. Double Wall  
*(holds up to 100 lbs.)*

400 lb. Double Wall  
*(holds up to 120 lbs.)*

500 lb. Double Wall  
*(holds up to 140 lbs.)*

600 lb. Double Wall  
*(holds up to 150 lbs.)*

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