

Case Study On Packaging Reduction To Help With Overall Construction Waste



The construction industry has a significant amount of waste accumulated on every job site. This study utilizes research on the types of materials that make up waste and the waste management strategies behind it. Waste materials range from building materials, such as lumber and steel, to packaging materials, like plastic and cardboard. This paper concentrates on material packaging and discovering ways to eliminate some of the construction waste before materials even arrive on the job site. A case study was performed on electrical lighting fixture packaging to observe and analyze the different amounts of waste accumulated. This examination focused on traditional light fixture packaging compared to the reinvented “Stack Pack” packaging. It was found that Stack Pack packaging is able to carry four times the amount of light fixtures compared to traditional packaging, and both produce a similar amount of waste. This is possible by modifying the original packaging by stacking the product and layering it with a cardboard cushion. This reduction of material is responsible for reducing factors such as time, cost and labor and has the ability to impact the amount of waste in all construction if incorporated in other trades.

-Identify Material With Excessive Waste

-Reinvent The Packaging/Product

-Apply To Other Materials

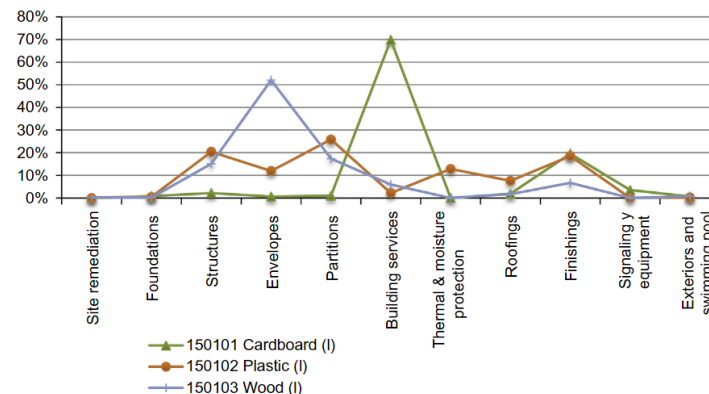
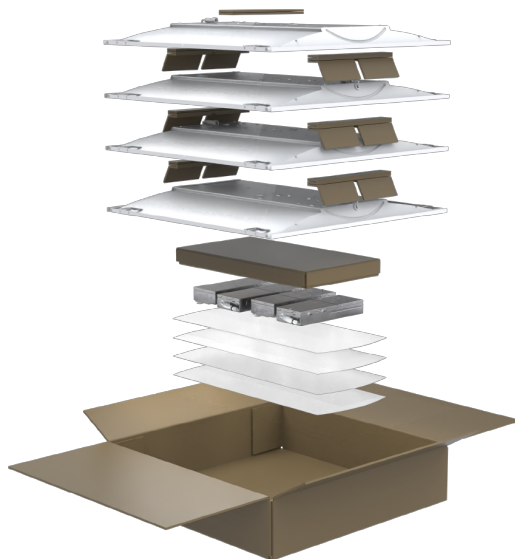


Fig. 3. Percentage of CDW category in each construction stage from the total amount generated in volume.

