

# Guidelines and Expectations for Pallet Configuration: Pallet Design Information

### **Pallet Load Efficiency Problem Statements**

Objective: Target improving load and space efficiencies for supplier provided inbound shipments to the FDC

Issues:

- 1.) Ineffective utilization of pallet area
- 2.) Improperly constructed container layering
- 3.) Uneven pallets: open space found on the top-layer and incorrect overall heights

**Problems Caused:** 

- 1.) Complicates part supply management, congests logistics
- 2.) Boxes failing during shipment, possible damage to parts
- 3.) Inefficient use of warehouse storage space

### Brown Box Packaging Rules for Pallet Maximization - Container Pack Quantity (CPQ)

- Apply P&A standard box sizes wherever possible in order to configure the most efficient pallet in terms of maximizing the allotted area.
- Pallet area efficiency can be maximized by following basic palletization guidelines listed below.
- The shipping container selection process should involve the box layout before a final decision is made.
- A shipper that offers the best cube utilization and provides an efficient pallet pattern is the most costeffective selection.
- Select number of containers per pallet based on projected order quantities for the part in question.
- Utilize standard FDC box sizes for simplistic unit load configuration. Cube out pallets correctly, a flat top-layer is necessary for pallet stacking in the distribution environment.
- If a non-standard inbound box is needed, an appropriate sized corrugated container must be selected. The container wall thickness or flute size/integrity should be taken into account for the packaging chosen.
- A C-Flute container will be the most common option for most P&A tasks. We recommend a 275 Mullen Burst, C-Flute corrugated box.

#### Pallet Information for Inbound FDC Containers: Determining CCFG

- Standard specified pallet dimensions: 48" X 45"
- Adhere to pallet height limitations. A high load must be less than or equal to 72". A low load should be 24" or 48" high.
- Maximizing pallet space (area efficiency) is solely determinant upon the container arrangement (box erection/layout). Selecting the correct number of cases per pallet and choosing proper pallet layout determines the unit load efficiency.
- Pallets with containers overhanging on any side are not accepted. Underhang is allowed if the surface area is best utilized considering the specified container needed.

### Palletization Selection Guidelines for Non-Standard Boxes

- Always choose a CCFG which provides a uniform flat top layer.
- Container placement determines the balance between cube area utilization and maximizing stack strength.
- FDC storage racks require a 2, 4, or 6 foot total pallet height for space utilization.

**Column vs. Interlocking**: Determining which type of pallet pattern is correct for the container needed: **Column** stacking method pros:

- 1. Common central load point keeps the pallet stable and containers balanced.
- 2. Proper container placement to maximize pallet load capabilities.
- 3. Less time consuming pack-out operation.

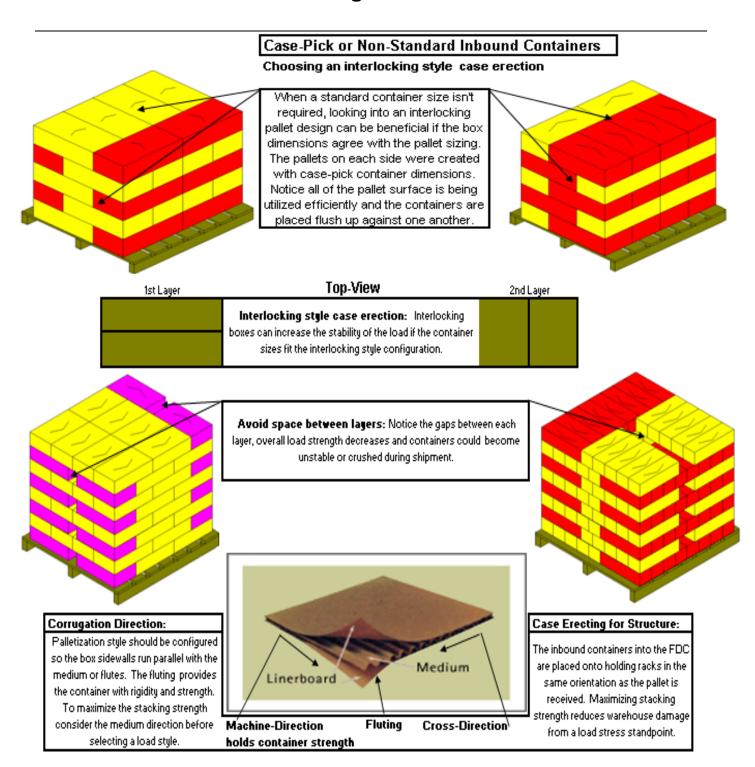
## Interlocking stacking method cons:

- 1. When set-up improperly, interlocked boxes do not take full advantage of pallet load strength.
- 2. Placing oblong containers in separate directions reduces pallet stability.
- 3. More Complex pack-out methods could increase labor time.

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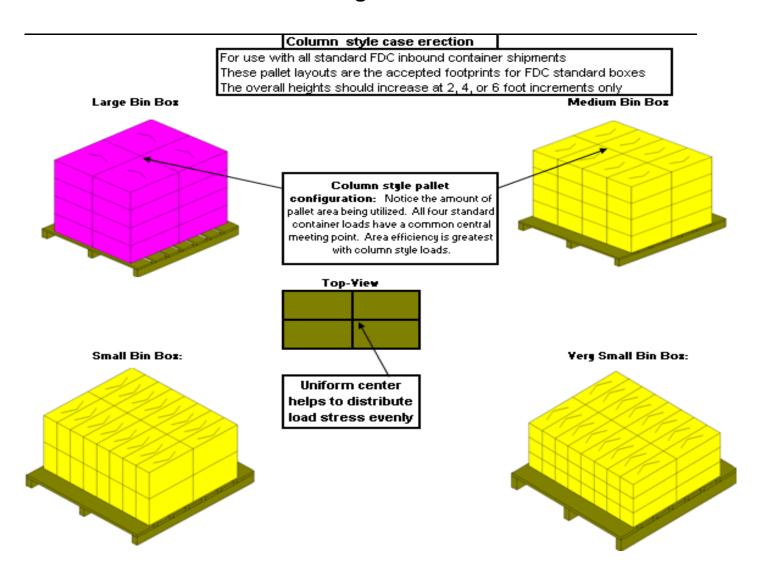


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