

The Ultimate Pallet Stabilization Combination

Prevent product damage by using VBoard® and stretch wrap to help ensure even weight distribution and stabilized pallet loads.

It is common to see pallets where the bottom tier of cartons is collapsing under the weight of the rest of the pallet, due to high humidity or temperature, double stacking or poor packaging techniques.

The use of VBoard in combination with pre-stretched film will relieve some of the weight bearing down on the bottom layer of cartons. This promotes even weight distribution, reducing carton compression while increasing stacking strength. Here is how it works.

Stretch film is made from linear low-density polyethylene (LLDPE), a common film that has excellent rubber band characteristics. After it is stretched and applied to the pallet, this film, because of its memory, attempts to return to its original length. This creates an even tension around all four corners of the pallet as the film "creeps" tighter. As this occurs, the pallet load stays tight and actually gets tighter over time.

If four pieces of VBoard are applied prior to the stretch-wrapping process, they will tighten around the pallet load as the film creeps tighter. This allows the film and VBoard combination to partially hold the weight of the upper tiers of boxes from bearing down on the lower tiers of boxes. Please note that this is only effective when a stretch-wrapping machine with a pre-stretch device of at least 240 percent is used.



VBoard, when used in combination with prestretched film, can stabilize a pallet load enough to suspend the top layer of boxes when the second layer (of similar weight) is removed. This results in less damage to bottom-tier packaging.

For applications where stretch film is already being applied by a stretch-wrapping machine, VBoard is the ideal packaging solution. Not only does adding VBoard to this packaging mix provide essential edge protection, it also provides the support needed to ensure load stabilization and stacking strength, saving manufacturers and distributors unnecessary costs spent on product damage.



In this demonstration, each box weighed 40 lbs., and each tier included six boxes. When one layer of boxes was removed, the VBoard/stretch wrap packaging combination provided the rigidity and stiffness to suspend the top layer—a full 240 lbs. of weight.