



Food Manufacture

Palletising

Lesson 4

Master the role of palletising in food manufacture, paying particular attention to the importance of health and safety, by completing this course.





There are five main ways of protecting products on a stack:

- Edge protectors
- Paperboards
- Bracing
- banding/strapping
- Shrink film/shrink wrap



Edge protectors are placed onto each edge of the stack.

The vertical and horizontal edge protectors help to protect against any damage during transport and stabilises the stack.





Paperboards are sheets placed on the base, top and sides of the stack to work as a protective barrier and help spread weight.





Bracing is when wood or metal is used to hold items against the pallet to prevent movement. This is not usually used for stacks of product.



Banding or strapping is when straps are placed around the stack to hold it in place on the pallet.





There are different types of banding which can be used. They are steel, nylon, polyester and polypropylene. Steel is used for heavy items as it is stronger.



How to manually use banding/strapping:

- Loop the first piece under the pallet void and over the top of the stack and secure it vertically
- Make the same loop and secure in all directions
- Make sure there is at least four straps attached
- Horizontal edge protectors can be used to stop straps damaging the edges of boxes
- Shrink wrap can be used as an extra protection



Shrink film or shrink wrap is an effective way of holding a stack in place on a pallet and protecting the stack from damage. A plastic wrap is placed around the stack to hold it.



How to shrink wrap stacks on a pallet:

- Place the leading edge of the shrink wrap securely on the base of the pallet. If it can be tucked in it will stay in place easily
- Tightly rotate the film horizontally around the stack starting at the bottom
- Move horizontally upwards making sure there is a 50% overlap on the previous layer of wrap
- Once at the top of the stack criss-cross the wrap from each corner till the top of the stack is covered
- To finish take the wrap tightly down to the bottom of the pallet and finish it off wrapped tightly around the base



Revision Activity 4

Name 3 ways to protect product on a pallet stack?