

The below schematic is designed to help the building products industry consider safety in relation to all aspects of pallet management. It is formatted as the lifecycle of a pallet and is meant purely as guidance to aid decision making.

The key items to look out for are :

- Use a pallet specification document to check suitability of the pallet you order and receive
- Consider how often a pallet has been used and what it has been used for because this will affect it's suitability
- Prolonged extreme weather conditions will affect the way a pallet behaves
- The way product is placed on a pallet will have a consequence for the stability of the product
- Banding is essential to the integrity of the product. Shrinkwrap will not prevent the collapse of any heavy materials
- Safety issues occur when loading pallets onto the vehicle, either by poor practice from the loader, or by not giving enough consideration to the configuration of the load
- The security of the load on the vehicle is the responsibility of all parties, not just the driver
- Training your team on how to conduct a dynamic risk assessment will allow them to avoid many of the safety pitfalls associated with pallets

The person responsible for the pallet at any stage of its lifecycle should assess the risks associated at that particular point.



TEP

refore in danger of collapsing. It has probably occurred cause the customer did not check the specification



Dry (often late spring to end Summer) – Timber becomes brittle and less flexible, hence the pallet components are more likely to break. Brittle timber is difficult to identify until the pallet breaks at the point of being fully loaded.

Hot – The timber becomes dry and brittle and begins to crack - especially at the nail joints.

LOADING THE PALLET

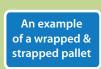
allets are normally put into the manufacturing process via an automatic balletiser conveyor system or manually by fork lift truck operators. Try to otate their use by applying a first in/first out policy.





Stack the product centrally, otherwise the load may not sit on the part of the pallet designed to withstand the load - inevitably causing pack

'**Tower stacking' -** where the product is not inter-locked - will be less stable on the pallet than stacking where the product is inter-locked.



An example of a strapped pallet



STORING THE FULL PALLET

There is a higher probability of stack collapse when pallets are loaded with "soft" or "unstable" products as there will be an element of 'settling' in the product once placed on the pallet.

WRAPPING OR BANDING THE PRODUCT ON THE PALLET

When stacking pallets, ensure that the pallets are placed centrally and uniformly. The number of pallets that can be safely stacked will differ with product type and should be risk-assessed each time.

Also, train the operatives storing the product how to conduct a dynamic risk assessment on the suitability of the ground conditions - ensuring that it won't contribute to pallet collapse.

The bottom pallet must be specified to withstand the total weight of the stack upon it.







The loaded pallet should be sufficiently secured to the trailer bed to withstand any forward or sideways force. This is the responsibility of all parties, not just the driver.

LOADING THE FULL PALLET FOR DELIVERY

Before loading the pallet onto the vehicle, check that the vehicle bed is free from contamination.

Load configuration - including the size of the void between pallets - needs careful consideration. Such items should be assessed by a competent person and policies agreed for product loading. The decision between placing the pallet on the edge of the trailer bed versus the issues caused by allowing a central void is particularly important. The loader should be fully trained in those policies and follow them in all circumstances.

When loading remember to

Be accurate. Pallet damage often occurs when a fork lift truck catches pallet components - damaging the timber sections. Such incidents are rarely reported by yard staff and are the source of many stack collapses.

Extend forks the full length of the pallet. This will avoid the risk of pallet instability during loading. Also be aware of varying pallet sizes and therefore the risk of misjudging your approach.

The loaded pallet should be sufficiently secured to the trailer bed to withstand any forward or sideways force. This is the responsibility of all parties, not just the driver.

FULL PALLET OFFLOADED BY CUSTOMER

The pallet is normally offloaded by a crane, grab or forklift. Most pallets are designed for one of these processes but not all of them. Grabs tend to put stress on the bearer sections, whereas forks put stress on the top board sections.

The spacing of the bearers to fit the grab is paramount to correctly lifting the load.

See the 'Delivering Safely' leaflet from the B.P.D.W.G for more guidance on safely delivering building products.

Within your conditions of sale, you may wish to consider at what point the transfer of ownership takes place and therefore the liability for any pallet collapse. This could be upon payment or receipt of the goods.



PALLET IS RETURNED FROM THE CUSTOMER

Be cautious if you haven't received the pallet from the original manufacturer - it may not be right for your product usage. When re-using a pallet, try to re-use it for the same product.

If you are receiving returned products, be aware that it might be on a pallet which you have not specified and therefore may be unsuitable for the product it is carrying. You may wish to train your drivers to conduct a dynamic risk assessment before collecting a pallet of returned goods.

STEP EIGHT

The Customer

...AND THEN THE CYCLE STARTS AGAIN