



Rack Protection

Storage Equipment Manufacturers Association www.sema.org.co.uk

Minimising the possibility of damage to pallet racking is one of the most important challenges facing the storage industry and SEMA are very active in promoting the safe use of storage equipment.

The SEMA "Code of Practice for The Design And Use Of Racking Protection" provides a great deal of useful guidance on the specification and provision of rack protection.

The SEMA "Code of Practice for the Use of Static Pallet Racking SEMA 2010" provides useful guidance on the responsibilities of Employers and Employees. A complimentary copy of this code is available from SEMA for all End Users.

The SEMA Users Code has various requirements which will minimise damage including: -

Person responsible for racking safety

The User should nominate a competent person to be responsible for racking safety (PRRS). The PRRS is responsible for ensuring that the racking is used, inspected, and maintained in accordance with the appropriate regulations and guidelines.

Operator training

The User shall ensure that the operators are trained in the appropriate use and limitations of the storage equipment. Comprehensive and effective driver training will minimise the possibility of any accidents.

Rack protection

End frame protectors are recommended, in truck operated racking, for all end frames between a gangway and an aisle and also for all end frames between a bridge bay and an aisle. Other racking protection requirements should be considered as identified by the risk assessment. The User should be aware of the implications of retrofitting protection devices which reduce operating clearances and can, in some circumstances, lead to an increase in the amount of damage.

Inspection requirements

It is the responsibility of the User to inspect the racking. The inspection should follow a hierarchical approach using 3 levels of inspection as follows: -

1. Damage inspection by warehouse operatives
2. Weekly inspections as a visual check from ground level
3. Annual or bi-annual inspection by a 'technically competent' person

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Maintenance

It is the responsibility of the User to maintain the racking in safe condition.

Any damaged component should be taken out of use in accordance with SEMA guidelines and repaired or replaced by suitably trained personnel.

The SEMA Rack Protection code has various recommendations which will minimise damage including: -

1. The specification
2. The installation
3. The defined responsibilities of the person responsible for racking safety
4. The training of the operatives
5. The inspection procedure
6. The maintenance procedure

Provision of rack protection should consider:-

1. The type of damage to be protected against
2. Whether other methods of protection are more appropriate
3. The type of protector required
4. Whether the protector will reduce clearances, potentially leading to more damage
5. Whether the protector may hide potentially serious damage
6. Whether the protector may lead to less reporting of damage
7. Whether the protector may result in operatives using the protector as a buffer

Rack protectors should be regarded as a 'last resort' means of avoiding damage and other methods of damage prevention should be considered before taking the decision to use rack protectors.

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HSG76

Another important document regarding the safe use of pallet racking is the HSE document 'HSG76, Warehousing and storage. A guide to health and safety.' This can be downloaded free from the HSE website.

HSG76 includes the following paragraphs on rack protection: -

639 Where racking is likely to be struck by lift trucks and other vehicles, it should be protected. Generally, such damage is at the lower levels of the racking – use renewable column guards to minimise the risk of damage from accidental impact. Corner uprights in a run of racking are especially at risk and should be suitably provided with a protective device in a conspicuous colour.

640 Retrofitting upright protection devices to an existing aisle where they have never been provided can have the effect of reducing the available clearances for fork-lift truck manoeuvres, which can in some circumstances increase the amount of damage caused. Such situations need consideration on a case-by-case basis.

Unfortunately clause 639 is being interpreted that all racking uprights are likely to be hit and should therefore be protected by rack protectors and even that it's the Law in the UK. This is an incorrect interpretation of the clause.

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