

**Do you want to make  
your warehouse safer?**

**Rely on our expertise in racking inspection.**

** JUNGHEINRICH**



# Are your warehouse facilities subject to inspection?

**Pay close attention if that's the case.**

## **What are the statutory requirements in Ireland?**

The new European Standard draft DIN EN 15635 and the Operational Safety directive demand the regular inspection of racking installations by an expert. The Safety Inspection of your Racking and Shelving is also a requirement in Ireland under the Safety, Health & Welfare at Work Act 2005.

## **What inspections are necessary on a regular basis?**

Since August 2009, the European standard DIN EN 15635 (See [www.din.de](http://www.din.de)) has been applicable to racking. The standard explicitly states that racking is designed only for careful and proper use. No additional forces or impact loads may be introduced, such as those incurred by incorrect operation. Chapter 9 of the standard requires the operating company to carry out regular checks. A distinction is made here between immediate notification, visual inspections and expert inspections:

### **Immediate Notification**

All employees must immediately notify the safety officer of any damage they discover.

### **Visual inspections**

Visual inspections are to be undertaken weekly by trained personnel. However, alternative intervals may be selected if determined by a risk assessment. A formal, written report must be maintained.

### **Expert inspections**

An inspection is to be conducted by an expert at intervals of not more than twelve months. According to the trade association, the expert is to be qualified in accordance with the German Technical Rule for Operational Safety 1203. Or market equivalent.

### **Inspection required for all racking types.**

According to the trade association, in principle, all racking types are required to undergo inspection. These include:

- Pallet Racking
- Modular racking systems
- Multi-level systems
- Cantilever-type racking
- Drive-in and drive-through racking
- Live storage racking





# Do you want expertise and knowledge?

**We have approved rack inspectors.**

## What characterizes a qualified person?

The Technical Rule for Operational Safety 1203 requires that the qualified person must have specialist expertise. They must have acquired this expertise by completing professional training, through professional experience and through contemporary professional activity in the scope of the upcoming inspection of the item to be inspected and appropriate further training. Also, the qualified person may not be subject to any technical instructions. Or market equivalent,

## How do you benefit from this?

Technical knowledge of the specific racking system including all rack parts. This includes knowledge of dimensions, structural behavior and combination options. Inspectors must also be familiar with the proper installation and proper operation of the racking system. Access to the static calculations and knowledge of the limit states are essential.

Our approved rack inspectors receive appropriate further training in the form of a multi-day training course with a final examination. The course content was devised by the Association of Storage and Associated Equipment Manufacturers and other leading institutes. Only someone who has proven their expertise may call themselves an approved rack inspector. They must carry photo identification and be registered with the Association.

Their credentials are valid for five years, which will be extended for another five years after a refresher course is successfully completed. This ensures that the expertise of our approved rack inspectors keep step with the current state of technology. Some markets may have different professional associations. All Jungheinrich Rack Inspectors are trained and certified in accordance with the standards of DIN EN15635 and comply with all statutory requirements.



## Best be on the safe side!

If, as a warehouse operator, you want a legally compliant expert inspection with subsequent maintenance of the racking, then you cannot go wrong with our approved racking inspectors, because:

- They are well informed about all regulations such as standards, trade association requirements
- The expert inspection is carried out systematically using a standardized inspection checklist. This checklist was devised by trade association experts.
- Even if the operating company no longer has technical documentation, our approved rack inspector will as a rule still have access to the relevant documents.
- Only the approved rack inspector has an insight in the static calculation of the existing racking.
- Frequently the layouts are available to the approved rack inspector available and can be used as support during the inspection.
- Only the approved rack inspector may contact their technical back-office at any time for information about possible safety-related effects of damage.
- Our approved rack inspector is familiar with all the original parts and can identify them clearly to ensure rapid and accurate repairs.
- The product-specific expertise of our approved rack Inspector ensures that unnecessary purchasing errors are prevented.





# What should you do if damage is found?

**Ensure that legally you keep on the safe side.**

## Measures to be taken in the event of damage

In accordance with the European requirements of the trade association and as per DIN EN 15635, any confirmed damage which may be relevant to safety must be rectified immediately by qualified persons. This is irrespective of whether the damage was discovered by the forklift driver, warehouse manager or approved rack inspector.

Proceed as follows:

- Safety officer is to be immediately notified of damage discovered.
- Initiate measures to guarantee safety.
- Preparation of a written report with obligation to retain the report.
- Investigation of cause in the event of repeated occurrence of damage.
- Introduction of a damage control procedure as per DIN EN 15635, section 9.4.5.

Not all types of damage are explicitly named and described in the standard. It is therefore of great benefit to be able to rely on the expertise of our approved rack inspectors.

## Use exclusively original parts

Chapter 9.7.1 of DIN EN 15635 states:

**“(...) Repairs to damaged components shall not be allowed unless approved by the equipment supplier. (...)”**

**and it later continues:**

**“(...) damaged components should be replaced rather than repaired as effective quality control is difficult on**

**cold formed materials. (...)”**

These principles apply to all markets. Also, regarding modifications to the racking, chapter 7 of DIN EN 15635 states the following:

**“Changes in the safe carrying capacity can occur when the storage equipment is modified. In all cases of changes the supplier or an appropriate expert shall be consulted, and any advice received shall be followed before any alterations are made.**

**Changes shall be made in accordance with the supplier’s instructions which shall contain the following:**

- a) The rack shall be unloaded prior to carrying out the alterations.
- b) Additions or changes to the storage equipment by welding or bolting shall not be allowed unless specifically approved by the equipment supplier.
- c) Safe load warning notices shall be updated as necessary after all changes to rack configuration; (...)”



Racking Inspection



▲  
Your next inspection

Note: The inspection sticker does not replace the full inspection report.

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In section 5 of its building inspectorate approvals for racking systems- Provision for use, upkeep and maintenance- the supervisory building inspectorate states:

**“(...) the racking structures are to be checked within the scope of the inspection intervals specified by DIN EN 15635. Any damage discovered as a result is to be rectified as per DIN EN 15635, section 9.7.3. It is preferred that damaged components are replaced with original parts. (...)”**

A repair using original parts as a replacement is therefore the safest method. These principles apply to all markets

The Safety inspection on your racking and shelving is a requirement In Ireland under the Health & Safety at Work Act 1974. In addition, the inspection provides protection for your fellow employees, the quality of your product or service and integrity and maintenance of your storage equipment. As well as the 1974 Act, you are also fulfilling your obligations under the Management of Health & Safety at Work Regulations 1999 and the Provision and Use of Work Equipment Regulations 1998. By adopting best of practice, in accordance with these standards and health and safety legislations, it reduces the potential risk of injury to personnel, damage to goods and interruption to business.

### **Our Report**

Our report is divided into various sections as outlined below. Copies of the damage report are attached, in the form of separate sheets. The inspector will have walked through and explained his findings with an assigned person from your company after gathering information and before leaving the site. Each sheet will contain a brief description of the damage and a recommendation on what actions, if any should be undertaken by the racking operator.

### **Standard of repairs**

We detail what materials and action is required to bring the installation up to the acceptable standard. To ensure a safe structure all Amber and Red Risk Categories should be implemented within their proposed time limits.

Damaged components should be replaced like for like unless a non-conforming repair has been identified or we make a specific recommendation. All recommendations are intended to be of benefit to you in terms of increased factors of safety or economy in both the short and long term.

### **Follow up**

Following our initial safety inspection, our report will advise if repairs have or have not been undertaken. We will also refer to the standard of these repairs and as to whether they comply with the European standard of **DIN EN 15635**.

Once all repairs have been actioned from the Jungheinrich Rack Inspection Report, we would advise clients to have a walkthrough with the maintenance team who have completed the repairs before signing off on any documentation.

This will remove the risk of non-compliance by ensuring that all hazards identified have been rectified, therefore removing themselves from a possible liable situation should the uncertified hazards contribute to an accident in the future.





The Association of Storage and Associated Equipment Manufacturers [Verband LBE] has developed the “Approved Rack Inspector” training with leading institutes.

Since 1966, the leading manufacturers of storage and associated equipment have been affiliated to the Association of Storage and Associated Equipment Manufacturers (LBE). Since then, the Association has advocated the safety and quality of the products of its members. Jungheinrich is a member of this organization.

**ISO 9001**  
**ISO 14001**

The German production facilities  
in Norderstedt, Moosburg  
and Landsberg are certified.



Jungheinrich trucks  
conform to the European  
Safety Requirements.

Jungheinrich

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The Jungheinrich logo, featuring a red upward-pointing arrow above the word 'JUNGHEINRICH' in a bold, black, sans-serif font, all enclosed within a black rectangular border.

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