



Storage meets intelligence  
**and reliability**

Nedcon is an international Group engaged in the design, production and installation of industrial racking systems.

Storage meets intelligence: Our solutions support your company strategy and organization. As our customer, you will be able to take advantage of the worldwide experience we have acquired since 1969, our knowledge in business, and our solution-focused design and engineering.

In addition to offices in several European countries and the US, Nedcon also benefits from a large reseller organization.



### **Nedcon racking inspection**

Safety, durability and reliability; issues that play an increasingly big role in the manner you make use of your warehouse. As a strategic partner Nedcon will support her customers to address these important topics. Our trained inspectors are your reliable source for professional support on maintaining your warehouse.



## Today's practice

The speed and volume of the material flow within warehouses is growing day by day. Supplies have to be taken on stock quicker and at the same time the efficiency has to be increased. 24 hour logistic is no strange notion for today's warehouse manager. You fully rely on the functionality of your storage rack and will do everything you can to safeguard this functionality.

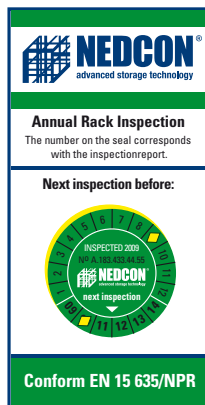


Unfortunately it is impossible for you to prevent damages to occur to the rack from every day operation. In these cases you can benefit from the expertise of the Nedcon Inspectors to help you to identify possible hazards and risks of malfunctions and advise the necessary steps to prevent failure of the racking. The warehouse is your tool and maintenance on a regular basis combined with inspections can reduce costly down time and financial damage caused by failures.

## European legislation

In the past years several countries have applied national rules and regulations following the European Council Directive 89/655/EEC "Concerning the Minimum Safety Health Requirements for the Use of

Work Equipment by Workers at Work". This directive has been translated both on a European and national level into practical norms and codes, for instance the FEM Codes of Practice.



On this same European level we have seen, in collaboration with universities and other expert institutes, the development of branch standards. In the European standards like the EN (pr) 15635 are the procedures prescribed how to execute rack inspections and directions for classification of the identified damages.

Specifically this standard makes it able for the employer to fulfill his obligations. It states that in case the racking supplier does not apply any special requirements concerning the use or inspection of the racking the norm must be applied. Companies and warehouse management are expected to have a system in place for users to be able to report damages. Frequent inspections are also mandatory with a minimum of one annual inspection per year for manually operated racking.

For automated warehouses applies a different and more customized inspection sequence. Furthermore these inspections have to be conducted by a qualified and certified person. The regulation also addresses the importance of damage evaluation. Because as the saying goes: "Prevention is better than the cure".



## Structural integrity is essential

It is no secret that practically all manufacturers of static steel rack have put the technical developments to good use these past years. Rack design is optimized using sophisticated computer models and often completely customized. New developments in calculation and design software, flexible roll forming machines, and improved steel qualities have led cost savings and reduction of production costs. This is noticed mostly in the optimization of profile shapes and reduction of steel thickness.

At the upright the part that is most crucial to the structural integrity a small damage can already affect the load bearing capacity. This possible instability constitutes a big hazard to people, machines and goods.



## Inspection by who?

In the European standard as well as in the current legislation the attributions of the person conducting an inspection are clearly specified. The inspector assesses the condition of your racking and his judgment bears significant importance. Although the standard doesn't say the inspection needs to be carried out by the manufacturer or supplier of the racking your Nedcon inspector is fully aware of the design specifications of your warehouse. He has access to the original drawings, long term experience and extensive knowledge of the applied materials. You can be sure his qualifications easily meet the requirements.

Besides extensive experience in building and or construction racking the Nedcon inspector has followed intensive internal training. Here above the inspectors do receive multiple day training at the renowned Dr Moll Institute in Darmstad. If completed successfully the inspector receives his official status and certification. We feel safe to say that the Nedcon Inspector is the best choice to evaluate the integrity of your warehouse.



## Inspections

The focus of our inspection program is at the manual served steel static racks. Automated warehouse racks are not excluded from inspections but due to the lower risk level the required frequency of inspection is lower. Inspection of such racking also has a much larger impact on the activity of the warehouse and consequently the arrangements for inspecting such racking systems are always highly customized.

### Regular inspections apply to:

- Pallet racking
- Hanging garments
- Drive-in racking
- Flow lanes
- Small goods storage
- Multi level mezzanines





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In most cases the warehouse can remain fully operative during the inspection as the inspector conducts his visual inspection from ground level. In some cases this can pose some constraint but usually the parts that are in sight are most likely to be damaged. It is the expertise of your Nedcon inspector that makes it possible for him to recognize significant details and pass judgment.



In some cases it is necessary to take a closer look at positions situated at higher levels and your assistance is required in committing a stacker crane, forklift truck or servicing platform.

## Finalization and report

The inspector draws up an inspection report with mention of all his findings, necessary actions to be taken or repairs to be carried out. The racking and report are fixed with matching inspection marks bearing corresponding numbers. These numbers are to enhance traceability of your maintenance history, (last inspector and prior inspection reports).



In conclusion of the inspection the inspector takes you through his report and hands over the proof of inspection. When applicable you will receive a proposal from Nedcon within 10 days on repairs and new parts.



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