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RISK ENGINEERING  
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Inspired Solutions LLC is the preferred network partner for Risk Engineering Associates and the reference for outsourced Risk Engineering Services for the international insurance market.

Inspired Solutions is your trusted network partner delivering highly flexible, effective and efficient Risk Engineering services.

Inspired Solutions offers a wide range of services geared towards the insurance market. The associates provide a broad spectrum of network management support, field services and training.

The team comprises a network of self-employed Risk Engineering Associates with a minimum of 20 years of working experience in the insurance industry, with proven competences and skills.



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**Storage Rack Inspection  
Program  
Risk Engineering**

Consulting  
Risk Engineering  
Risk Management  
Training



# Storage Rack Inspection Program

## IMPLEMENT A RACK STORAGE INSPECTION PROGRAM

Collapse of storage racking in a warehouse as a result of damaged elements is not an uncommon event and can have potentially devastating consequences for staff on site, the goods stored and the business interruption associated with the loss of the storage capacities.

Periodical checks and inspections of the racking configuration could prevent serious injuries and business loss.

Where repetitive damages are noted, rack protection should be considered, along with guidelines for forklift truck traffic, good housekeeping and sound lighting.

Safe storage arrangements and racking can reduce downtime lost to accidents and faulty equipment and eliminate the risk of fines for non-compliance. Moreover, it can improve business profitability.

## TRAINING AND AWARENESS

Prior to implementing a storage and rack inspection program, training should be provided, and awareness should be created for all staff involved.

Training should include ways how to identify damaged storage rack elements and how to react, but also how problems with e.g. broken pallets can be eliminated at the source.

Safety awareness is a day-to-day routine for all staff, both fixed and temporary.

## ‘The perception of risk is driven by experience’

### REDUCING LOSSES

Sound forklift truck handling is key to prevent damages to happen in the first place. Automatic guided vehicles (AGV) could prevent damages to storage racking by eliminating human error or human interference.

### INSPECTING DAMAGE

Familiarization with the racking systems should be arranged to determine the difference between regular wear and tear and actual damages in order to eliminate potentially hazardous situations.

Recurring safety and damage issues should be shared with staff to find possible solutions.

Regular visual inspections should be carried out and documented, so that any damage can be quickly resolved. On finding damaged racking, a written report must be submitted and damage repaired.

### CHECKLIST DRIVEN APPROACH

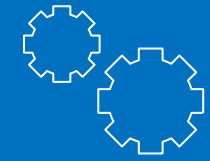
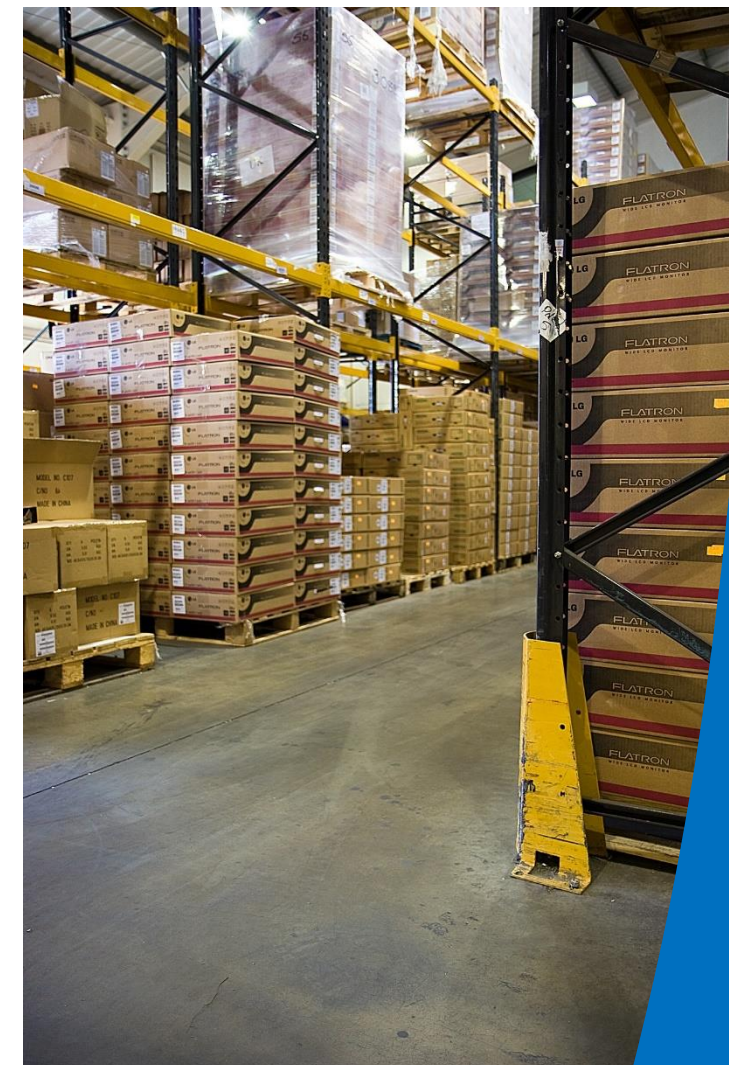
The initial installation of storage racking should be compliant with OEM instructions and checked in the design stage already. A designated checklist for the design, installation and commissioning phase is key.

For day-to-day operations a checklist with benchmark criteria could support the inspection round. The checklist should include:

- Cross-sectional profile of the main load beam
- Straightness of beams, bracing, and uprights
- Welds, joints, bolts, clips, pallet stops, end connectors and safety locks
- Bends are judged against a 1000mm straight edge with set limits

Identifying overload of any section is key. Any damaged part identified should be replaced; repairs are not recommended.

Source: Storage Equipment Manufacturers' Association (SEMA).



**RISK ENGINEERING**  
Inspired Solutions offers hands-on risk engineering services comprising field-oriented services, distant interactive assessment (DIA), plan and project review, risk improvement follow-up and account engineering.



**RISK MANAGEMENT**  
The risk management services of Inspired Solutions include Business Continuity related services such as defining the Strategic Risk Management approach, Business Impact Analysis, Hazard Analysis and Total Risk Profiling.



**TRAINING**  
The training package of Inspired Solutions can be tailored to the needs of an organization and ranges from basic risk engineering activities to detailed risk management support for top management.