

PALLET RACK





PALLET RACK FOR MODERN WAREHOUSE MANAGEMENT

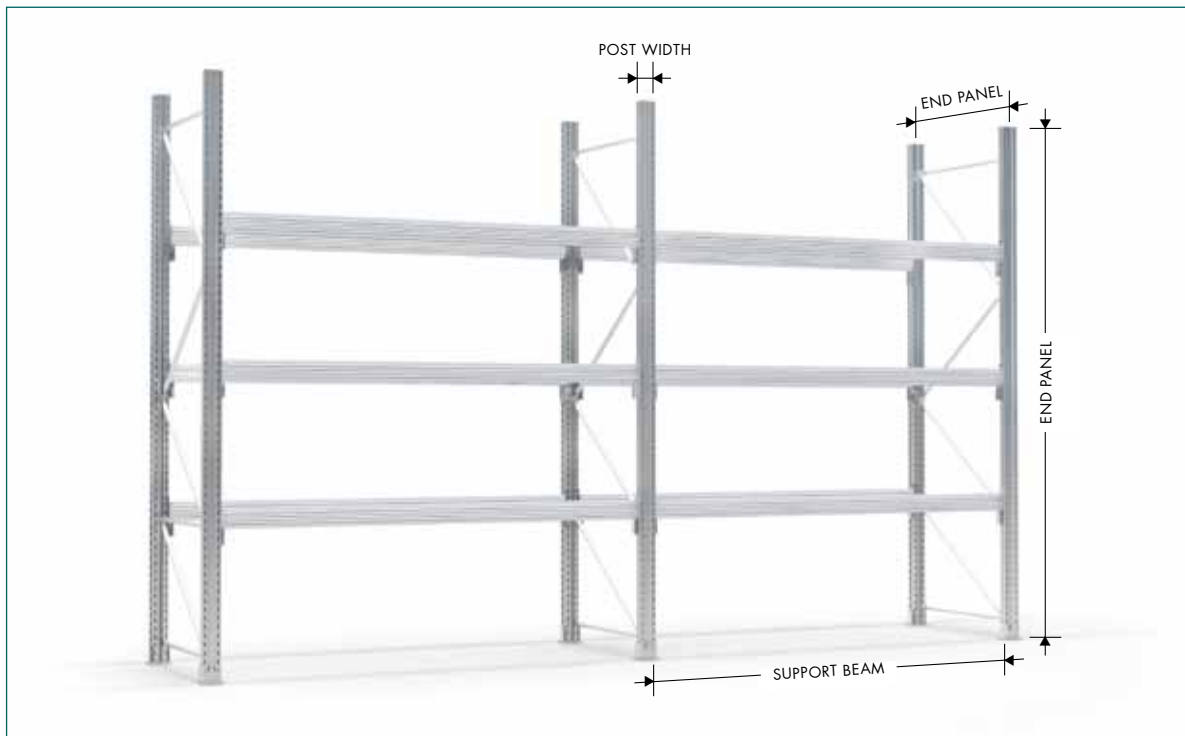
Weland Pallet Rack is designed with a focus on future requirements for rational material handling. The pallet rack's design promotes a well thought-out function with a high level of safety. Both end panel posts and support beams are made of closed profiles for the maximum bearing strength. All constituent components are hot-dip galvanised. The Weland Pallet Rack is dimensioned and tested according to SS-EN 15512:2009.

With Weland Lagersystem AB as supplier, you obtain a committed partner with wide experience and a high level of competence in efficient warehouse management. In all of our contacts with the market and users, we pay special attention to the requirements and needs that govern our development work. We provide efficient warehouse management solutions using quality products manufactured in Sweden.





DIMENSIONS AND LOADS



END PANELS

End panel depth: 500, 800 and 1100 mm. Other end panel depths are manufactured to order.

End panel height: 1500 to 13000 mm at intervals of 500 mm. Other end panel heights are manufactured to order.

Load: Alternatively, 10,000, 12,000, 13,500 or 17,500 kg/section.

Post width: 110 mm

SUPPORT BEAMS

Length: Standard lengths 1850, 2700 and 3600 mm. Other lengths are manufactured to order.

Support beam height: 80, 100, 120, 140 and 160 mm.

Load: Support beam in standard lengths 200 to 2400 kg/pallet depending on the support beam height.

Division: The support beams can be placed at height intervals of 50 mm.





STANDARDS

The harmonisation within the EU and the development of common standards has consequences for both manufacturers and users of warehouse management equipment. The official designation for pallet racks is Steel Static Storage Systems.

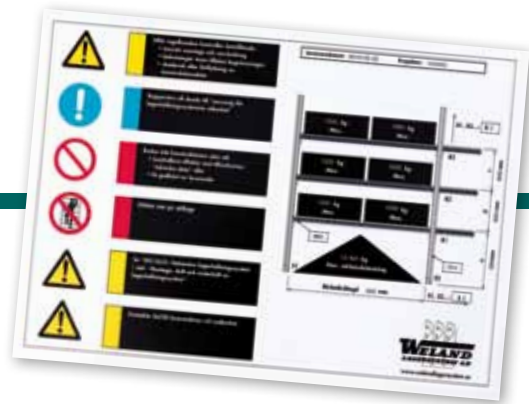
Applicable European standards for pallet racks

- Application and maintenance of storage equipment. SS-EN 15635:2008
- Tolerances, deformations and clearances. SS-EN 15620:2008
- Specification of storage equipment. SS-EN 15629:2008
- Adjustable pallet racking systems. Principles for structural design. SS-EN 15512:2009
- Terms and definitions. SS-EN 15878:2010

Significant changes

The new regulations are accompanied by extensive requirements for all parties concerned. Equipment design, assembly and use are subject in future to a much greater degree of regulation than before.

Apart from a theoretical calculation of the capacity of the pallet rack, the components must also be subjected to physical testing. Risk classes with different tolerance requirements have been introduced. The storage equipment has to have clear specifica-

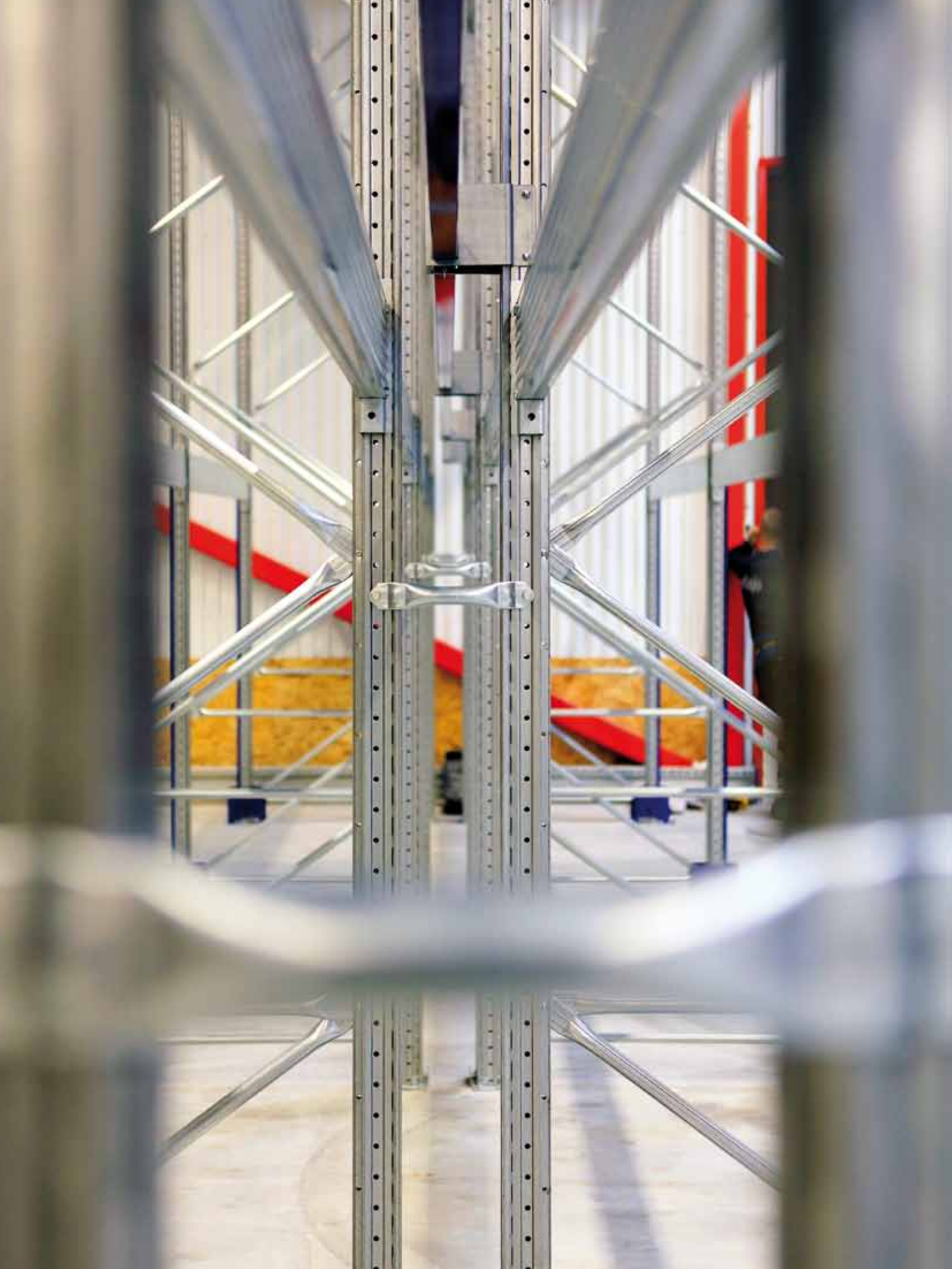


tions and a detailed user manual has to be enclosed. Safety issues are carefully regulated. User companies have to have a person responsible for storage equipment and assembly must be carried out by qualified persons. The standards contain provisions for use and risk analyses during inspections and assessment of damage.

The new European standards will increase the level of safety and promote European trade on equal terms. At Weland Lager-system AB, we are part of the project where SIS is working with "steel storage systems". Apart from pallet racks, the new standards will also affect traditional racks, cantilever racks and deep stacking.

The Swedish Work Environment Authority has also started to introduce new regulations for the use of pallet racks. In step with growing awareness of the new regulations, the requirements on manufacturers with regard to safety and information are increasing.

Contact us and we will help you sort out the concepts behind the EU standards and give you good advice as to how you have to work with pallet racks in order to be on the safe side.





STANDARD



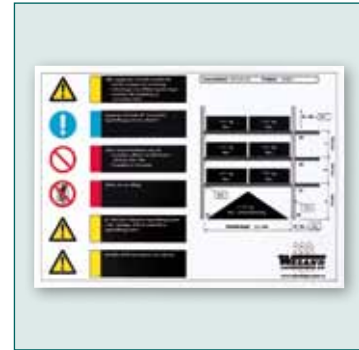
Post marking

Posts are marked with a model designation, to ensure that the right load diagram is read.



Support beams

The support beams are marked with their model and length as guidance for reading from the correct maximum load sign.



Maximum load sign

The maximum load sign must always be set up and easily visible, to prevent incorrect loading of the pallet rack.

REGULATORY REQUIREMENTS AND STANDARDS

AFS 2006:4

If risks may arise due to a collision, collision protection must be installed. Pallet racks must be equipped with protective devices that prevent the pallets from being pushed through the rack (i.e., so-called push through protection), unless this is manifestly unnecessary.

SS-EN 15512:2009

Collision protection with a height of not less than 400 mm must be placed next to the outer posts, where truck aisles cross.



ACCESSORIES



Post protection, floor model 200

It is mounted on the floor and provides effective protection against collisions with trucks. Height 200 mm.



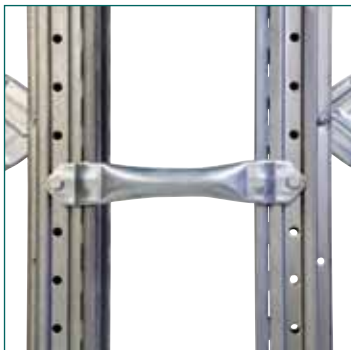
Collision protection, floor model 400

It is mounted on the floor and provides effective protection against collisions with trucks. Height 400 mm.



Post protection, post model

It is attached directly to the post and it provides good protection, without being in the way. Height 2000 mm.



End panel distance

Used in double racks and available in the following dimensions: 150, 192, 200, 250, 300, 400 and 500 mm.



SINGLE

End panel and collision protection

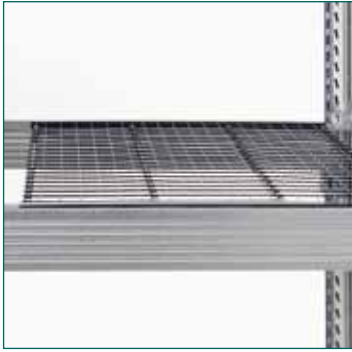
Used for both external end panels and truck aisles to prevent injuries in the event of collisions. Height 250 mm (end panel protection), 450 mm (collision protection).



DOUBLE

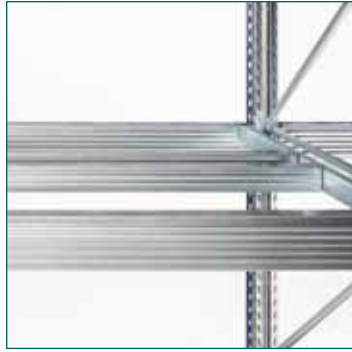
End panel and collision protection

Used in the same way as the single end panel and collision protection. Height 250 mm (end panel protection), 450 mm (collision protection).



Net beam shelf

Acts as protection against falling objects and as a shelf for lighter goods without pallet. Width 880 mm. Load: max. 1000 kg/m².



Half-pallet insert

Usually used for half-pallets but it can also be used as pallet support for heavily loaded pallets.



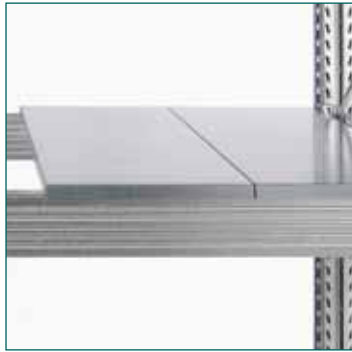
Long-side insert

Placed between the support beams for use during long-side handling.



Asphalt box

Placed under the footplates, to distribute the load. Manufactured in hot-dip galvanised sheet metal.



Sheet metal shelf

It is placed on the support beams and provides a closed shelf, e.g. for goods that do not lie on a pallet. Width 442 mm.



Grating shelf

Width 880 mm. Two load versions: max. 600 kg/m², max. 1000 kg/m².



Fork distance

Works as support for flat goods without pallets.



Barrel stop

Simplifies the handling of barrels and drums in the pallet rack.



End protection

It is installed on the rear edge of the pallet racks, to prevent the pallets from being pushed too far in.



ACCESSORIES



Fall protection, end panel

Net grating that is mounted along the end panels to prevent goods from falling out of the pallet rack.



Fall protection, long side

Net grating that is mounted along the support beams to prevent goods from falling out of the pallet rack.




Shuttle unit, floor assembly

Provides good ergonomics during direct picking from a pallet in a pallet rack. It is placed on the floor.



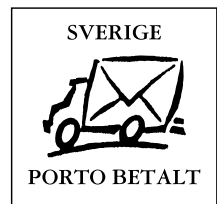
Shuttle unit, support beam assembly

Provides good ergonomics during direct picking from a pallet in a pallet rack.



At Weland Lagersystem AB we design, manufacture and market efficient storage systems. Our production and development facilities are located in Gislaved and our main product groups are vertical storage lifts, pallet racks, cantilever racks and shuttle units.

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CONDESIGN INFOCOM 04/2011 Photo: Perik Svedberg, Johnny Timgren and Condesign Infocom.

Your supplier of vertical storage lifts, pallet racks, cantilever racks and shuttle devices.



24 Anderstorpsvägen, 332 36 Gislaved, Sweden

Telephone +46 (0)371-52 30 40 | Fax +46 (0)371-328 85 | E-mail info@welandlagersystem.se

welandlagersystem.se