

## PRODUCT CERTIFICATE

### ADJUSTABLE PALLET RACKING

Arestant, S.A. (AR Racking) is member of the FEM-AEM and participates regularly in the development of new EN- and FEM- standards.

#### *Relevant standards and recommendations for adjustable pallet racking:*

- EN 15512 Steel static storage systems - Principles for structural design
- EN 15620 Adjustable pallet racking - tolerances, deformations, clearances
- EN 15629 Adjustable pallet racking - guidelines for specification
- EN 15635 Adjustable pallet racking - guidelines for safe use
- EN 16681 Adjustable pallet racking systems - Principles for seismic design

EN 15629 clearly identifies the responsibilities of the supplier, the specifier and the user. The user and the specifier must provide and check all data relevant to the racking supplier, in particular the installation environment, the details of unit loads, the seismic conditions and the local regulations where applicable.

EN 15512 specifies the structural design requirements applicable to all types of adjustable beam pallet rack systems fabricated from steel members intended for the storage of unit loads and subjected predominantly to static loads.

The technical characteristics of the profiles and connections have been determined by analytical methods and tests in the most recognized laboratories and universities (ISIB Dr Möll, University of Barcelona -UPC, TGR...). Tests are according to EN 15512:2009.



The design of the pallet racking is based on a detailed second order finite element analysis.

All materials are according to EN standards.

Considering the above mentioned, AR Racking certifies that the racking design is made according to EN 15512. Test records, certificates of material characteristics for each manufacturing order, and technical reports according to the EN15512 are available on request.

All materials are epoxy polyester or galvanised coated. The characteristics of the manufactured materials are checked during the several controls carried out under the Quality Management System in the different production phases.

*Arestant, S.A. is certified according to the following standards:*

- ISO 9001
- ISO 14001
- OHSAS 18001
- ISO 3834-2
- EN 1090-1:2009+A1:2011



*Arestant, S.A. is member of:*

- FEM-AEM (Spanish Association Member of the FEM)
- CESOL (Spanish Welding Association)
- AEC (Spanish Quality Association)
- AEFEM (Spanish Association of racking manufacturers)
- ADL (Spanish Association of Logistic Development)
- ATEG (Technical Spanish Galvanizers Association)

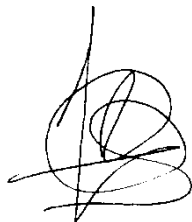
*Arestant, S.A. has a collaboration agreement with Mondragon University:*

AR Racking and Mondragon University have a collaboration agreement materialized in a testing laboratory. The test bench called AR Lab is a room where basic and applied research programs, doctoral theses and specialized training are developed. The classroom is also equipped with a laboratory for experimental tests suitable to carry out, on one hand, systematic product tests for standard compliance, and on the other, virtual tests oriented to the simulation and generation of new knowledge.



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