

**Case studies**

## **AERMEC UPGRADES ITS RACKING SYSTEMS AND MAKES THEM EARTHQUAKE-RESISTANT**



**Client:** Aermec Spa  
**Sector:** air conditioning systems  
**Place:** Verona

Established in 1961 in Bevilacqua in the province of Verona, Aermec is one of the world's leading companies in the production of air conditioning equipment for domestic, industrial and commercial use. Part of the Giordano Riello International Group, Aermec supplies customers all over the world through its 6 foreign companies and a network of 70 international distributors. Today it has more than 700 employees.

### Objectives:

- Make the existing racking system safer
- Optimize space by making the system more versatile and suitable for storing products of different weights and sizes

### Solution:

- Earthquake-resistant pallet racking structure with retractable forklifts, designed with 4 load levels + ground
- Each load level was sized to support 2,400 kg
- The racks are equipped with protections on each upright and on the heads to prevent damage during the handling of the ULs with the forklifts

### Technical features:

- In order to increase storage versatility, the shelves of the racking were equipped with gridded surfaces suitable for managing ULs of different sizes and to create continuous support surfaces
- In consideration of the anti-seismic design, the following solutions were adopted: 1. higher performance materials were used, for example high strength steels for the uprights; 2. all structures were anchored to the floor with chemical anchors consisting of a threaded bar and resin; 3. all beams were bolted; 4. bracings were used at each level

### Added value:

- The system is now safer and, in the event of seismic events, can ensure greater resistance and resilience

#### The storage systems in figures:

System surface area:	8,600 m <sup>2</sup>
Racking system height:	8 m
Load levels:	4 + ground
Maximum UL weight:	600 kg
Earthquake-resistant storage surface:	6,000 m <sup>2</sup>







