



CASE STUDY

# LOGISTICS CENTRE & REGIONAL HEADQUARTERS

 **K. LIAROMATIS**  
STRUCTURAL STEELWORK





# DESCRIPTION

Affiliated company of German Group Super Market ALDI in 2008 bought from ETVA at the Industrial Area of Patras, land space of 155 acres investing important capitals over 30 millions of Euros.

The project includes storage areas of different temperatures suitable for full product line, staff facilities, plant rooms, the regional headquarters as well as parking areas. Special requirements of the project were the construction of a continuous storage space divided solely by fire curtains for faster distribution of goods, the revision of the land use plan with unification of three plots and the provisions for future extension of the office and the storage areas.

The total surface of building amounts 34.000 sq.m. with volume of 304.500 m<sup>3</sup> and dimensions:

- Length: 360m,
- Width: 90m in 6 frames of 15 m,
- Height: 7,70~8,00m.

## ALDI GROUP

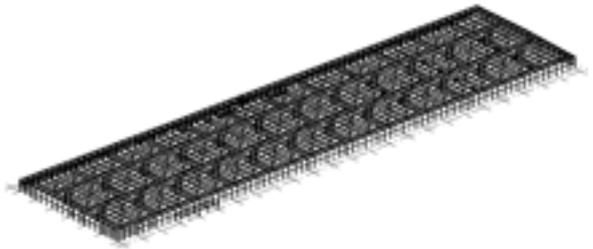
- It was created in 1948 by the brothers of Albrecht and currently numbers over 10.000 in 18 countries
- employs more than 100,000 workers
- annually has a turnover of 50 billion dollars

Particular, supermarket chain Aldi Süd, which has made investments in Greece, has a presence in many countries of the world in the form of individual regional companies as well as more than 390 Hofer-branded stores in Austria.

# STEEL BUILDINGS

## TECHNICAL SPECIFICATIONS

The cross sections were made from HEA 280, 300, 360, HEA 450, HEA 450 columns, K-bracings from circular hollow sections CHS 273,0 x 10,0mm - S 355 grade. The bolts, washers and the nuts for the connections of the individual members of the construction were galvanized, grade 8.8 according to ISO 4014 specifications.



## Paint System

A double hot dip galvanizing system according to DIN EN ISO 1461 and a C2 grade paint for internal steel constructions including a primer coat and two paint coat with a total thickness of 160 $\mu$ m, respectively for the external C5-M class according to DIN EN ISO 12944-2 one primer coat and two paint coats with a total thickness of 240 $\mu$ m. The remaining steel parts were sandblasted up to SA 2 1/2 grade, followed by epoxy Primer painting, providing the ability to subsequently accept fire resistant paint R30-90min on the site.



The welds required by certified welders following EN 25817 Standard.



## Logistics Centre



Anticorrosion protection of the steel parts was carried for reasons of industrial pollutants due to installation in the Industrial Area of Patras plus small distance from the sea.



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