Heavy structures

Designing heavy and diverse industrial structures is a challenge well met by ASTRON's engineers.

This 35 ton capacity cantilevered crane projects 16m over the river Moselle in the river harbour of Mertert, Luxembourg. It was ordered by Luxport and is unique of its kind in Luxembourg.

309 tons of steel were needed for the structure, including cranerails and accessories. Essentially, the crane comprises 2 lattice-work "mega beams", each 34m long and weighing 87 tons. The three modules making up each beam, measuring 7m, 20m and 7m respectively, were bolted together on job-site and subsequently erected. The maximum allowable deflection is 10mm.

Erection took a little more than 3 hours and demanded the use of a 400 ton capacity crane.

The associated storage building has two modules, each of 35m free span. Total surface area is 4 580m^2 and the height to the ridge is 14,3m. Inside the building, an additional bridge crane, spanning 35m and with a capacity of 12,6 tons, is used for handling steel coils and other associated products.

High density 16kg/m^2 insulation was used in both the walls and in the roof.

The ASTRON PVDF coated wall panels offer excellent resistance against various chemical agents, such as acids, solvents and tar. The coating also is able to tolerate relatively high temperatures.

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Technical details:

Construction year:	1997/1998
Type:	AZM2
Dimensions:	57 m x 16.23 m
Surface:	± 4,580 m²
Peak height:	14.3 m
Roof slope:	4.0 %
Roof system:	PR/AZA
Wall system:	PA/PVAF

Advantages for the customer:

- Large free spans
- High quality coatings
- One-source supply
- Fast completion of the project
- Flexibility of internal layouts
- Good price/quality ratio
- Excellent quality
- ISO 9001 - Certification

General information:

Builder:	M.B.S., Steinsel
Customer:	Luxport Mertert

A glance at some more references

This shipyard was built by builder Agalia in Spain and has a peak height of 28m. There are two internal bridge cranes.

This 24m high, 170 ton structure was built for PRIMOREC Differdange (L). It was assembled on the ground and later lowered over the furnace in a spectacular lift in the summer of 2002.

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