

Stadion Amsterdam (user F.C. Ajax), Lift of 2,400 tonnes roof structure.

Client: Bouwcombinatie Stadion Amsterdam.

Steelwork Fabricator: Bailey Techno Group.

Erection Contractor: Van Seumeren Holland B.V.



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Before the concrete seating ellipse could be completed for Amsterdam's new football stadium two arched roof beams, each a massive 28 metres deep in triangular section, had to be pre-assembled at ground level and then lifted into place.

Two beams span 170 metres between their 60 metres high support towers and are connected by 15 metres deep trusses above each goal line. This structure, weighing 2,400 tonnes, will support a sliding roof capable of covering all or part of the stadium.

For the lift a temporary portal six metres in height supported a pair of Fagioli PSC L600 Strand Jacks on each of the four twin towers.

Initially the structure was lifted four metres in order to undersling additional steelwork and to confirm the engineers dimensions for the permanent fixings.

Four days later the stadium attracted its first big crowd (outside the gates) when the roof was lifted 65 metres and the permanent roof supports were installed before the roof was gently landed and bolted down.

The heavy lift contract was completed in seventeen days including the installation and removal of the temporary steelwork.