

ATHENS – HANGAR OLYMPIC AIRWAYS

DESCRIPTION

The parallel 300 metres, longitudinally oriented twin trusses, supported on three main transversal box girders, are positioned with a relative separation of 9115 metres. The trusses have a parabolic curved top flange, with a height varying from 3.5 metres at the ends to 12.5 metres at the centre, and a bottom horizontal flange (fig.3). The upper chord geometry facilitates rain drainage.

Two couples of twin trusses are then both connected, with vertical and horizontal braces, in order to finally obtain a self out of plane stabilizing spatial frame.

Five reticular spatial frames, forming the principal structural system (fig.4), are supported on transversal oriented frames formed by 4 box-section concrete columns and steel box-section continuous beams, with three spans of 27.5 metres each (85 metres long), positioned along the two lateral gable walls and the symmetrical axis of the Hangar.

Service provided: Preliminary, final and executive structural design

Client: Tecnodomiki

Year: 2000

Surface: 25.000 m²

Amount of works: € 4.131.655,19

