

Owner *Gemeente Houten*
 Architect *ipv Delft & Arc2 architecten*
 General Contractor *Gebr. De Koning*
 Engineering Office *Adams Bouwadviesbureau*
 Construction Period *09/2013 - 05/2014*

Streektransferium Linielanding has multiple functions. It is a resting place, landmark, viewing platform and local market. The helical road bridge takes the passenger directly from the A27 into the nature of de Nieuwe Hollandse Waterlinie. The concept of this subsidy project was to generate interest in the countryside. The landmark consists of 53 steel columns of which 23 also support the roadway. Expansion joints were only used at the land abutments. The steel-concrete deck is integrated with steel cross beams. The edge beams are massive HEA1000 that are bent in their weak axis and function as a safety barrier.

Scia Engineer was used for a 3D-model. Only a 2D-dwg was available to import. A 3D-model was necessary to optimize the construction. Innovation was required to realise the design with its total budget of €1.7 million. The modules that used were steel code check and dynamics.

The challenges presented by this project are the stability of the construction and the influence of temperature. The stability of the structure is guaranteed due to the rigid joints between the columns and the cross beams and the rigid joints between the columns and the foundations. No wind bracings were allowed between the columns. The influence of temperature was examined because of the length of the radial floor plan. The total length of the deck is 130 m without dilatations.

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We are widely experienced in the field of bridges, retaining walls, offices, housing, underground structures and schools. We primarily use Scia Engineer and Allplan for our projects.

