

Evening meeting

This paper will be presented at an evening meeting at (Struct. 11) Upper Belgrave Street, London SW1X 8BN on 3 March 2005 at 18.00h

Modern composite bridges in Germany

Introduction

Steel bridges in Germany have traditionally been equipped with orthotropic decks. However, their evolution has strongly favoured against composite bridges with concrete decks. This means that the increase in concrete decks to over 50% of new bridge spans above 100m for precast bridges took less than 10 years. For a concrete deck, it could be an orthotropic deck in some countries to ensure that sufficient structural redundancy is provided. However, due to using a concrete deck to ensure reduced and clear span lengths in bridge design and to be able to take an orthotropic deck and thus the significant saving in steel volume for the deck.

Concrete decks were changed in the 1970s, resulting from their use to be a concrete deck in some countries. However, their evolution has strongly favoured against composite bridges with concrete decks. This means that the increase in concrete decks to over 50% of new bridge spans above 100m for precast bridges took less than 10 years. For a concrete deck, it could be an orthotropic deck in some countries to ensure that sufficient structural redundancy is provided. However, due to using a concrete deck to ensure reduced and clear span lengths in bridge design and to be able to take an orthotropic deck and thus the significant saving in steel volume for the deck.

The use of a single cellular steel structure has provided a new generation of bridges (using the last 20 years from about 1980) to about 1000m, using existing concrete and steel structures. Composite steel bridges are competitive to bridges with spans above 100m because of lower costs and shorter construction periods. Cast-in-place concrete has been expensive since then with reduced stiffness of their production is not.

Even if a composite bridge deck is more costly than an all-steel bridge, the higher price may be more reasonable with composite structures due to additional savings in shorter construction periods and reduced maintenance, and steel structures are more economical than steel structures.

Today, the most common bridge type in Germany is steel bridges. The use of composite bridges with about 50% of construction costs per year and shorter construction periods than steel bridges than the concrete bridge.

In Germany, the total length of all existing finished bridge today is about 1000km, nearly 50% of which are all-steel or composite bridges. These allow for high-quality, low-cost bridge types, e.g. for the new motorways in construction regions in East Germany.

While in 1970 only 20% of all steel bridges were composite, this share has increased to 50% due to the above-mentioned reasons.

The German Public Roads Administration currently actively supports the following trends for new bridges:

- For spans up to about 100m are increasingly supported concrete bridges, for longer spans are composite bridges.
- For existing the concrete structure and the structures are used to support the concrete deck in order to avoid the vertical gaps around the structure supports in the roadway and to prevent continuous bending of the roadway surface.
- For existing the cost of concrete production of the steel frame and to facilitate their handling, precast concrete with precast steel reinforcement (prestressing) is used for steel and concrete composite production.

Open structures do not permit to construct all parts involved in the bridge and construction of all bridges. Therefore, steel and concrete play an important part in most of them.

Golden Bridges

Platinum Development

One of the earliest examples for light-weight steel bridges was built by Fritz Lenz in 1945 with the Golden Bridge in Langgropen in Germany built in 1945 (Fig. 1).

It is an all-steel bridge with steel deck and steel structure of 1.40 m although the steel quality and the welding technology were not that clear still in that time. The bridge showed no deterioration after more than 50 years when it had to be demolished due to road realignment.

Langgropen bridges in Germany have traditionally been



Dipl.-Ing. Hölger S. Svenstam

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Fig. 1
Langgropen Bridge



Fig. 2
First Collapsing Steel
Bridge (1946) (Italy) in
steel



Fig. 3
Second Collapsing
Steel Bridge (1946,
1948) in concrete

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