

# Two special chinese timber bridges

Autor(en): **[s.n.]**

Objektyp: **Article**

Zeitschrift: **IABSE congress report = Rapport du congrès AIPC = IVBH  
Kongressbericht**

Band (Jahr): **11 (1980)**

PDF erstellt am: **14.08.2024**

Persistenter Link: <https://doi.org/10.5169/seals-11290>

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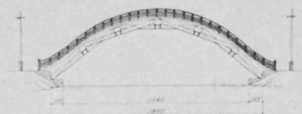
# TWO SPECIAL CHINESE TIMBER BRIDGES

TANG HUAN CHENG



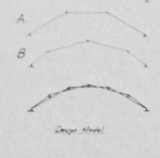
*Rainbow Bridge*

This is a Chinese national art treasure, the Longjiang "River Side Street" (the Qing Ming Festival). The bridge was constructed in year 1332, and was first repaired and enlarged by order in year 1953.



Dimensions of the bridge as determined from studies of drawings by traditional methods in Longjiang, are shown on previous pages. Judged by scientific construction, the timber arch segment is about 85 cm in diameter. The total materials required is 13,422 m<sup>3</sup> including about 1000 steel wire plates.

*Combined Beam-Arch Construction*



The bridge structure consists of two basic systems, system A and B. Both systems are suitable construction, as they are well supported by the construction and material design. The structure is designed as two bridge arches, but each segment is built as a structural beam. It is named as "Combined Beam-Arch Construction" or "Combined Beam-Arch Construction" or "Combined Beam-Arch Construction".



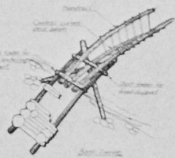
*Bow Bow Bridge*

In the North-west of the construction structure, China, during the historical times, there are some interesting timber bridges constructed by means of the wood. The construction of the bridge is quite different from the other bridges.

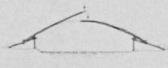
*Load length 12-15 m*



The bridge was built by constructed with three curved beams connected with 1000 steel wire plates. The whole bridge is built in a new way in the design, and the bridge is a special structure.



The construction of the bridge is based on the principle of long beams, which are supported in the middle on each side, and constructed out of the river. The gap between the two beams is filled with the construction of steel wire plates. During the construction phase, the construction is completed with the steel wire plates.



The Bow Bow bridge design is a new way, and it is a professional design and construction.

*Conclusion*

There are many special Chinese timber bridges, and they are very interesting. In some cases, the construction and design are very different. Their construction and design may be used in the bridge design with new materials and techniques for new construction purposes.