



The longest timber pedestrian bridge in Europe

Aslan DZHANDZHGA
Dr. Civil Engineer
Ltd Transproject
Tbilisi, Georgia
aslangeo83@gmail.com



Aslan Dzhandzhgava, born 1983, received his civil engineering degree from the Moscow State Automobile and Road Technical University. He received his Dr degree from the Georgian Technical University. He work for Consultants Company Transproject, Tbilisi, Georgia.

Summary

A timber pedestrian bridge has been constructed in Anaklia within the coastal boulevard the length of which is 504,0m. The bridge crosses Enguri River at its mouth with the Black Sea. The bridge is located in the centre of the town pedestrian zone. Pursuant to the location and purpose of the structure a huge importance was paid to its architecture. According to the Client's instructions, the structure should be of effective architecture and harmonized structure that would become the symbol of renovated Anaklia. The design was done by Georgian (LTD Transproject – General designer) and German (LTD Leonhardt Andrä und Partner, LTD HESS TIMBER, LTD Fast+Epp) engineers.

Keywords: Pedestrian Bridge, glulam timber, timber truss, cable-stayed bridge.

1. Introduction

Anaklia represents a Black Sea resort town of Georgia. Georgian Government has decided to convert Anaklia into a modern entertaining and resort centre of the country. The most scaled and important design under Anaklia infrastructure development was the construction of a pedestrian coastal boulevard. According to a new urban planning design of the town, the town expansion is planned using the joining of non-farmed territory of the right bank of Enguri River. The design coastal boulevard passes along the town, crosses Enguri River and finishes at the right bank of the river. The coastal boulevard forms the social space in the town and connects old and new parts of a town. The boulevard crosses the river using the bridge, Fig.1. Pursuant to a new planning of the town, the bridge is located in the centre of the resort area. The bridge represents the important part of the town pedestrian zone. Accordingly, huge importance was paid to the bridge architectural concept, its confluence with environment and space. Pursuant to the Client's instructions, the bridge should be of timber to become more harmonized part of the social space. It can be easily said that the timber is a construction material that is the most natural and accordingly comes very close to human and society.



Fig. 1: The timber pedestrian bridge in Anaklia

The location of the bridge on the plan was planned by the coastal boulevard planning. The boulevard crosses the river at the mouth of the Black Sea. Accordingly, the bridge is located in the river delta. The riverbed is significantly wide with low banks at this location. Enguri River represents a