Aggerbogen

This project was one of the longest wooden bridges of this type in Germany that supports heavy vehicle traffic:
Approach bridges are made of spruce glulam (laminated) in form of timber-concrete composite
Construction creates a large shore area that ensures a rapid drainage in case of floods
The arch beams made of glulam fit in the natural environment

Wood is a suitable material also for big and long bridges in combination with other materials and with profound wood protection.

Innovative solutions for constructive wood protection
The arch bridge is laterally covered with larch. The upper side is covered with a titanium zinc sheet.
Concepts for the subsequent use of the wood for the bridge within the framework of cascade use of wood were established

DETAILS

ORIGIN OF WOOD

Forest

TYPE OF WOOD

Stemwood

KIND OF WOOD CONCERNED

Stemwood

IMPACT ON ENVIRONMENT & BIODIVERSITY

Positive especially in comparison with high energy consuming materials like steel

INCOME EFFECT

Positive

EXPLOITATION POTENTIAL

--

HUB

--

ECONOMIC IMPACT

High

SPECIFIC KNOWLEDGE NEEDED

High

MOBILIZATION POTENTIAL

No potential

SUSTAINABILITY POTENTIAL - VALUE

--

EASE OF IMPLEMENTATION

Difficult

EASE OF IMPLEMENTATION - EVALUATION

--

KEY PREREQUISITES

Complex project with high standards regarding static and wood building skills

TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED

--

JOB EFFECT

High – as this prestige project will increase further wood building projects

COSTS OF IMPLEMENTATION (EURO - €)

--

MORE DETAILS

CHALLENGE ADDRESSED

--

DOMAIN

Wood construction industry

TYPE OF SOLUTION

--

KEYWORDS

--

DIGITAL SOLUTION

No

INNOVATION

Yes

COUNTRY OF ORIGIN

Germany

SCALE OF APPLICATION

Regional/sub-national

START AND END YEAR

2014 - 2014

CONTACT DATA

OWNER OR AUTHOR

REPORTER

Holzbau@Schaffitzel.de

REFERENCES AND RESOURCES

MAIN WEBSITE

https://www.schaffitzel.de/unternehmen/aktuell/207-auszeichnung-holz-proklima

RESOURCES

--

PROJECT WEBSITE

--

PROJECT REFERENCE

--

PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood

POST DATE

18 Nov 2019

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 862681

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY