

Madame Butterfly

Facts and figures on the stage technology

Construction time The fabrication, assembly and final technical adjustment

took about ten months. Planning extended over a period

of two to three years.

Construction personnel 33 technology firms from Austria, Germany and Switzer-

land are involved in building the stage. Also 14 members of the festival's technical staff, including crane opera-

tors, are taking part in the construction.

Wooden piles The stage is erected on about 119 piles made of spruce

wood or steel and driven up to six metres deep into the

bed of the lake.

Paper sculpture The paper sculpture measures 23.2 metres at its highest

point and 33 metres at its widest point. It has a total surface area of 1,340 square metres. Of the 117 constitutent parts, the biggest is approx. 17 square metres, the smallest about six square metres in size. The paper sculpture weighs about 300 tonnes in total. The supporting structure of steel and wood accounts for about 288 tonnes of that. Some twelve tonnes are polystyrene foam and

facade plaster.

Paper boat The paper boat is made of a steel skeleton that is covered

with plywood cladding and coated with fibre-glass reinforced plastic. It measures about 6 metres at its highest point and is approximately eleven metres long. It is mo-

ved by means of a winch.

^{*} All height specifications relate to the mean water level, known as "Water Level 2", which corresponds to the Bregenz level of 416 centimetres.



Companies involved in construction of the stage

Correct as of 30 March 2022 (subject to alteration)

Construction firms (principal contractors)		
Biedenkapp Stahlbau GmbH paper sculpture	Dornbirn (A)	
Blitzschutztechnik Krottenhammer monitoring of the lightning protection system	Lauterach (A)	
Bootswerft Hartmann GmbH & Co KG paper boat	Hard (A)	
Bregenzer Festspiele GmbH	Bregenz (A)	
BSS Industry GmbH flag	Nebelberg (A)	
Edelbunt Matthias Trostberger paper sculpture	Telfs (A)	
Geiger Technik GmbH paper boat	Nenzing (A)	
Keller Grundbau GmbH paper sculpture	Wien (A)	
Kiechel & Hagleitner GmbH monitoring of electrical equipment	Bregenz (A)	
Ludwig Steurer Maschinen- und Seilbahnbau GmbH & Co KG <i>Yamadori platform</i>	Doren (A)	



Subcontractors		
Amkon Maschinenbau GmbH flag (control technology)	Hofkirchen-Garham (D)	
FE - Mechatronik Yamadori platform	Egg (A)	
Haberkorn GmbH <i>Yamadori batteries</i>	Wolfurt (A)	
i+R Gruppe Holzbau GmbH paper sculpture	Lauterach (A)	
n-power, Mobile Energy Yamadori batteries	Feldkirch (A)	
Planeta Hebetechnik GmbH flag (winch)	Ebreichsdorf (A)	
Ritter Maschinen GmbH paper boat (winch)	Zell am Harmersbach (D)	
Salzmann Hafenbau GmbH paper sculpture	Fußach (A)	
Unican GmbH paper boat (control technology)	Neuss (D)	
Artistic realisation and scenery building		
La Mimesi Frank Schulze	Berlin (D)	
Statics and planning		
Andres Geotechnik AG	St. Gallen (CH)	
DiplIng. Heinz Millner ZT GmbH	Dornbirn (A)	



Exent AG	Hüttwilen (CH)	
Gaisberger ZT GmbH	Dornbirn (A)	
Mader + Flatz Baustatik ZT GmbH	Bregenz (A)	
Markowski Straka ZT GmbH	Feldkirch (A)	
merz kley partner GmbH	Dornbirn (A)	
Planning and bidding process		
Bregenzer Festspiele GmbH	Bregenz (A)	
Rudhardt Gasser Pfefferkorn - Ziviltechniker	Bregenz (A)	
Site coordination		
Rudhardt Gasser Pfefferkorn – Ziviltechniker	Bregenz (A)	
3D visualisation		
Simon Wimmer Screenpix	Altach (A)	
Special effects		
Hummig Effects e.K.	Peißenberg (D)	
Construction partner		
Liebherr-Werk Biberach GmbH	Biberach / Riß (D)	
Industrial divers		
Laguna-Lindau Tauchsport e.U. GbR	Scheidegg (D)	
Bodenseetaucher GmbH	Wolpertswende (D)	



Cranes	
Liebherr GmbH	Rankweil (A)
Liebherr-Werk Biberach GmbH	Biberach / Riß (D)

The 2022 Bregenz Festival runs from 20 July to 21 August. For tickets and information please visit our website www.bregenzerfestspiele.com or call 0043 5574 4076.