



Demountable flood defence system Bad Kissingen on the River Fränkische Saale

January 2003: land flooded in Bad Kissingen. The one hundred-year flood caused a good deal of damage in Bad Kissingen. The Rose Garden and the spas were flooded, normal functioning of the health resort was out of the question. Accordingly immediate flood defence plans were initiated.



Rose Garden behind the demountable flood defence barrier

The official inauguration took place in June 2007 in the presence of the Bavarian Environment Minister Dr. Werner Schnappauf. The costs amounted to just short of 14 million euros, 65% of which was claimed from the Free State of Bavaria and the EU. The town contributed 35%. Steel posts are mounted on the concrete base approx. every 2.5 metres, between which aluminium dam beams are stacked horizontally to varying heights.



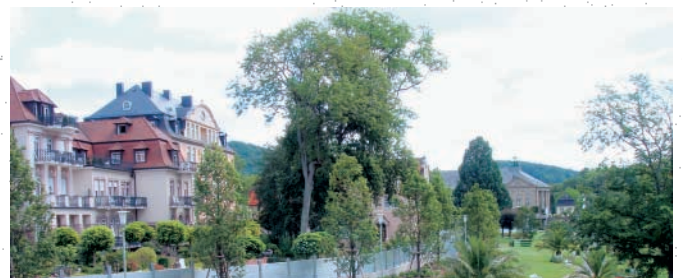
View from the foyer to the Luitpoldsteg

Client: Town Bad Kissingen
Authorising Body: Wasserwirtschaftsamt Schweinfurt
Protection Height: HQ100 + 1,0 m Freeboard
Design Criteria: Hydrostatic Water Pressure + 15 kN single load
Heights: 0,6 m up to 2,7 m
Length of the defence line/Area: 720 m/875 m²



Rose Garden without demountable flood defence barrier

Civil Works had already been started by autumn 2005 and a flood defence barrier was built across the health spa area. In an emergency, however, only the concrete base of the defence barrier is visible, and this blends well into the natural scenery and is designed to look attractive.



Rose Garden from the Schweizerhaussteg

When all the dam beams are in use, the maximum height of defence is one meter above the one hundred-year flood of 2003. The defence barrier is then 2.60 metres high. The assembly time takes approx. 3–4 hours.



Northern area of the Lindesmühlpromenade