PROJECT SITES

Since its market launch, the spring weir has been successfully used at locations in Germany, Austria, Italy and Switzerland.

Sites	Water bodies	YOC	w (m)	h (cm)
Thale	Bode	2007	35	50
Rothenburg	Saale	2007	164	50
Dingelstädt	Unstrut	2010	3	50
Hausach	Kinzig	2012	25	65
Offenburg	Kinzig	2012	57	60
Rappenberghalde	Neckar	2013	3	60
Grunau	Striegis	2014	19	50
Wittlingen	Kander	2014	11	55
Michelbach	Nordrach	2014	8	60
Neumühle	Unt. Argen	2014	29	55
Pilsing	Url	2014	21	55
Freyburg	Unstrut	2015	80	15
Schwäbisch Gmünd	Rems	2015	13	70
Münstertal	Neumagen	2016	8	70
Meschede	Ruhr	2016	26	70
Windisch	Reuss	2016	9	70
Öblitz	Saale	2017	78	70
Achslach	Teisnach	2018	5	70
Schlechtau	Murg	2018	16	70
Jeßnitz	Mulde	2018	11	45
Weihermühle	Altmühl	2018	3	50
Enerpass	Passer	2018	18	70
Amstetten	Url	2018	24	60
Brennet	Wehra	2019	9	50
Bad Dürrenberg	Saale	2019	45	70
Hilpertsau	Murg	2020	14	70
Pinkafeld	Pinka	2020	8	60

ADDRESSES | PARTNERS

In order to provide ideal support for our locations and offer you the best possible service, we work together with various partners in Germany and Austria.

Strasser & Gruber GesmbH - Wasserkraft
Hofstädtgasse 4 | AT - 3240 Mank
www.sgw.at

Hydro-Energie Roth GmbH
Zehntstraße 2 | D - 76227 Karlsruhe
www.hydroenergie.de

Ingenieurbüro Pfeffer | Wasser-Umwelt-Energie
Stadtplatz 9 | 94209 D - Regen
www.ingenieurbuero-pfeffer.de

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OPERATING PRINCIPLE

The spring weir is a dam that raises the water level of a water body. By means of the system stiffness, the spring weir adjusts the dam height depending on the amount of water supplied.

If both forces are in a balanced state, the spring weir remains in its current state. If the applied water pressure exceeds the system stiffness, the spring weir lowers to the next state of balance. If the water pressure falls below the system stiffness, the weir rises again accordingly. Due to this movement behaviour, the spring weir keeps the water level at the spillway edge almost constant and reduces the expected rise in the water level in the headwater compared to an immobile transverse structure.

GENERAL BENEFITS

- **WATER LEVEL MAINTENANCE WITHOUT ENERGY**
- **EASY BED LOAD AND DRIFTWOOD REMOVAL**
- **VARIOUS WATER LEVELS (30–90 CM)**
- **VARIABLE MODULAR CONSTRUCION ANY LENGTH POSSIBLE**
- **LOW MAINTENANCE**

Spring weir in the event of strong overflow.

STRUCTURE

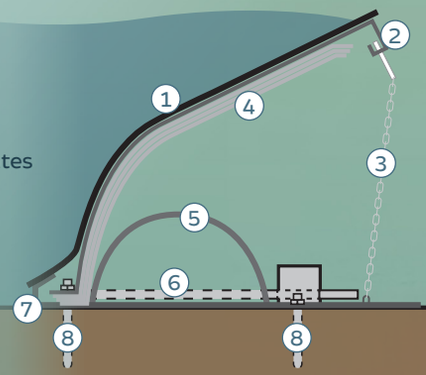
The spring weir consists of a robust baffle plate and a finely tuned spring plate package made of special spring steel. The baffle plate is additionally protected from bed load and driftwood by a rubber mat.

Two systems with different operating principles are offered. The first uses a pretensioning device to adjust the spring weir height, the second forms the pretension via a specially assembled spring package.

With the help of a chain, the spring weir can be adjusted to a desired water level, which, for example, ensures that the top of the weir is wetted with water. Adjusting the water level with the chain does not change the weir's turning behaviour and the fixed water level of the spring weir.

CONSTRUCTION UP TO A HEIGHT OF 70 CM

1. Rubber mat
2. Baffle plate
3. Chain
4. Spring steel plates
5. Pressure body
6. Threaded rod
7. Stand
8. Anchoring



Variable flow rate

All year round

Cost-effective and low-maintenance

High quality

Sustainable and environmentally friendly

VARIANTS

- As a transverse structure or lateral outlet flap
- Can be adapted to your conditions as a short or long variant
- In combination with straight or curved weirs
- Installation options on or behind an existing weir crest
- Compatible with existing weir pillars

A wide range of possible combinations with existing weirs or other hydraulic structures can be implemented.

Please contact us!