

Fishcon lock Schwarzmühl weir on the river Alm in Austria

The Fishcon lock Schwarzmühl weir on the Alm was built to the right of a new residual water power plant. After installation, the Fishcon lock was covered with gravel and is therefore barely visible.

Facts:

- *Fish region: metarhithral*
- *Lead fish: river trout 50 cm*
- *Height difference: about 3.7 m*
- *Attraction flow rate: 100 l/s*
- *Water saving: 140 l/s compared to slot pass*
- *Fishcon lock: DN900 with throttle*



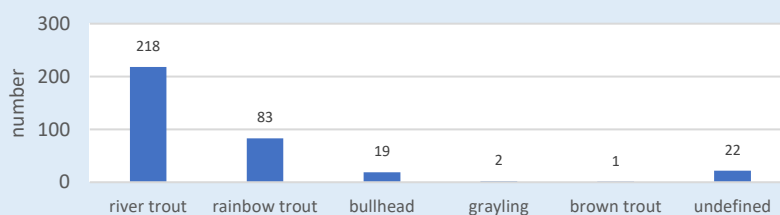
Monitoring:

In autumn 2023, a video monitoring was carried out at the Fishcon lock Schwarzmühle, which was evaluated by the technical office "Umweltgutachten Petz OG". **The Fishcon lock was rated as fully functional with the best grade according to Woschitz et al. 2003.**

In addition to the total of 345 fish ascents, 43 fish descents were also documented in the study period of approx. 50 days, despite a poor fish population of around 10 kg/ha in the river. The largest fish migrated was a river trout with a length of 465 mm. The largest fish caught at the electrical fishing was 350 mm long. The migration of all fish species identified during fishing and monitoring could be demonstrated. The following species migrated in corresponding numbers:

fish ascents at Fishcon lock Alm - Schwarzmühl weir

(final result after 50 days)



- *fish ascents: 345 individuals*
- *longest fish: river trout 465 mm*
- *number of fish species: 5*
- *rating: fully functional*

➔ **fully functional**