

Sluicer

Weerbach, Austria

Challenge

During the snowmelt season, the Weerbach intake is exposed to high sediment loads that rapidly fill the desander. Frequent cleaning was required to protect the high-head Pelton turbine from abrasive wear and maintain reliable operation.



Weerbach desander



HDPE components & combined Sluicer outlet and spillway



Solution

SediCon redesigned the desander and supplied a SediCon Sluicer integrated with a custom HDPE structure combining the Sluicer outlet, spillway and environmental flow outlet in a single unit.

The optimized design reduced civil construction costs while enabling continuous sediment removal without interrupting power production. The system removes stones and debris up to 100 mm and is designed for a service life exceeding 100 years.



Project Location

Project facts

Client: FRÖSCHLAG & Co. KG
Project: Weerbach HPP
Location: Austria
Technology: SediCon Sluicer
Installed capacity: 2.0 MW
Head: 397 m
Design discharge: 1.5 m³/s

Results and benefits

- Continuous sediment removal
- Reduced construction costs
- Combined spillway solution
- Minimal maintenance
- Design life > 100 years
- Optimized desander design

For more than 30 years, SediCon has developed and supplied proprietary sediment handling technologies from Trondheim, Norway. Our solutions for reservoirs, intakes, desanders and tunnels have been successfully implemented in hydropower projects in more than 20 countries across five continents.