



Renewal Weir Platzspitz (CH) Permeation/Sealing Grouting

Country	Switzerland
Type	Hydraulic structure, dam, weir, embankment
Client	Canton Zurich, AWEL
Main Contractor	JV-River (Marti Zurich, Grund u. Tiefbau AG, Marti Solothurn)
Execution of the work	Renesco AG
Designer	IUB Engineering AB
Construction Period	2026

Project Description

The Platzspitz weir, situated at the confluence of the river Limmat and river Sihl, serves to regulate Lake Zurich and facilitate hydropower generation.

The two roof-mounted gates, which date from 1950, no longer meet current operational safety requirements and must be replaced. Furthermore, the gates cannot be controlled with sufficient flexibility in the event of flooding. The canton is therefore carrying out a comprehensive refurbishment of the weir in collaboration with the City of Zurich, to be completed by mid-2028.

The project also includes a new weir bridge across the Limmat upstream of the dam, new dam beams, modifications to the control building, compensatory measures in the adjacent section of the river Sihl using guide groynes, and a new bridge.

As part of the refurbishment of the Platzspitz weir, also a fish ladder is being constructed in the dam between the Limmat downstream of the weir and the inlet channel to the Letten power station (known as the power station's headrace). The fish ladder must be constructed in dry conditions. For this reason, the water level in the canal between the weir and the power station has been lowered to a depth of around one meter. The water level will remain lowered until summer 2026.

- Flood discharge HQ100: 350 m³/s
- Width of weir fields: 2 x 25 m
- Height of the embankment: 3.75 m

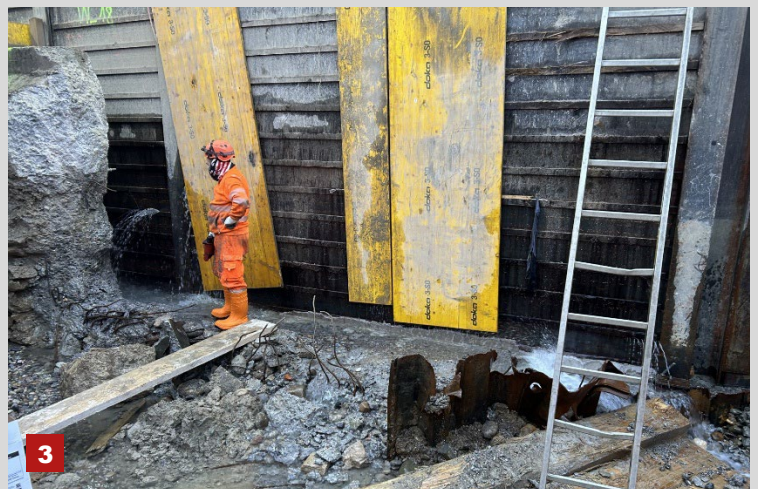
Platzspitz Bridge:

- Total length: 55 m
- Total width: 5.50 m
- Fish pass, height difference: 3.66 m, 18 basins

Scope of Service

Permeation/ Sealing grouting of the area beneath the base slab of the weir towards the keeper's house with a non-foaming silicate injection resin, approved to use for drinking water.

For sealing against flowing and pressurized water in the foundation, we used a fast-curing, permanently sealing PU injection resin.



1. Weir, dam
2. Impression from the site
3. Sealing works