

Züri West Musikhochschule

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1. Rainwater management

Rainwater is collected from the shed roofs to a deposit at the lowest level of the building. This water is recycled for restroom ush use and for watering. To drain effectively, a leaned pipe is attached to the side of the Music School and conducted to the rainwater tank.

2. Supply criteria

The water distribution network is connected to the public network, located on Geroldstrasse, where the existing buildings are already connected. The public network is commonly used by a connection through a valve, dispensing a main pipe for the general usage of the building as well as the system of toilets, water and support the climate system.

Supply is distributed through the elevator vertical cores and branched to each level under the new hollow floor. For hot sanitary water, heat is produced via the same geothermy system that produces heating for the school.

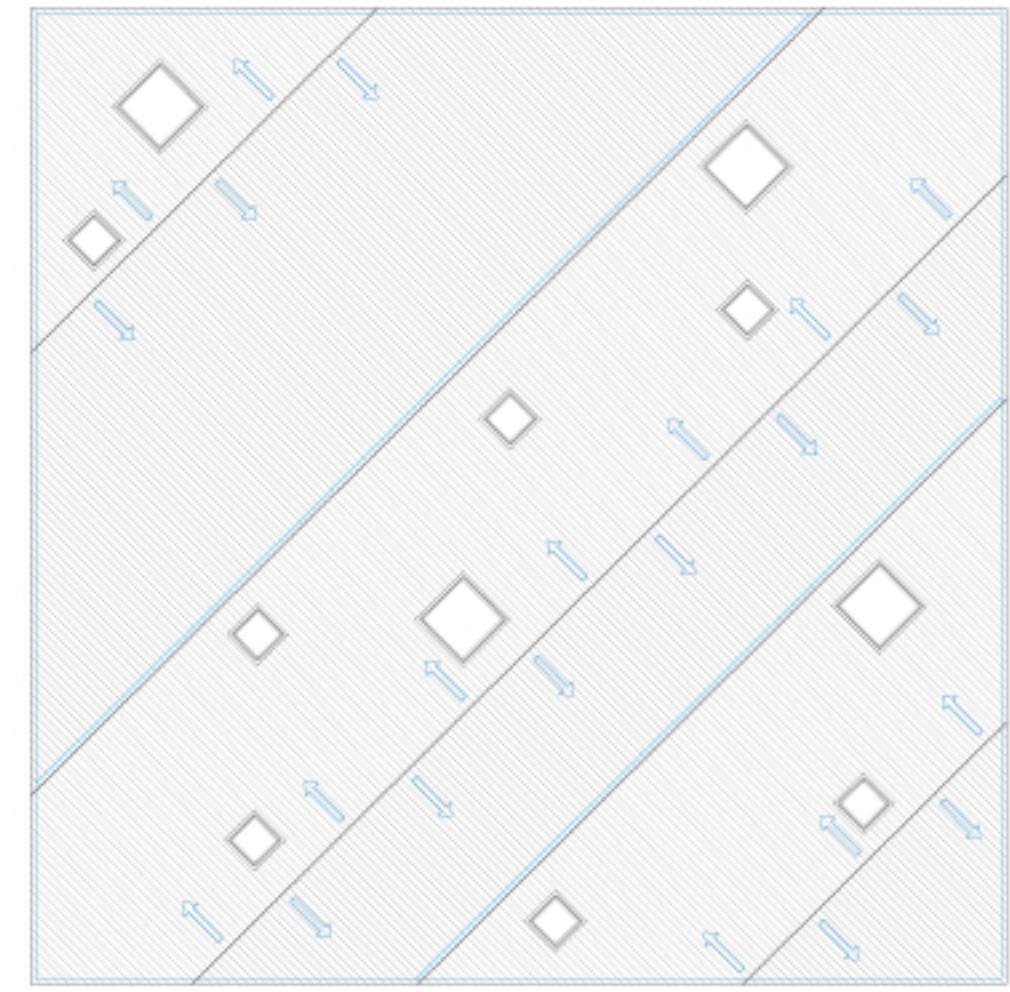
3. Drainage criteria

The building uses a separate network. Black water will be redirected directly to the main sewer. Because the building has sewage in the basement, a water pressure will be disposed to pump water from the basement to the general network. For blackwater and greywater a similar criteria to the rainwater is used, a pipe attached to the sides of the building conducts the water to a septic tank. Generally downspipes will be located within the vertical communication cores and shuttered beneath the slab.

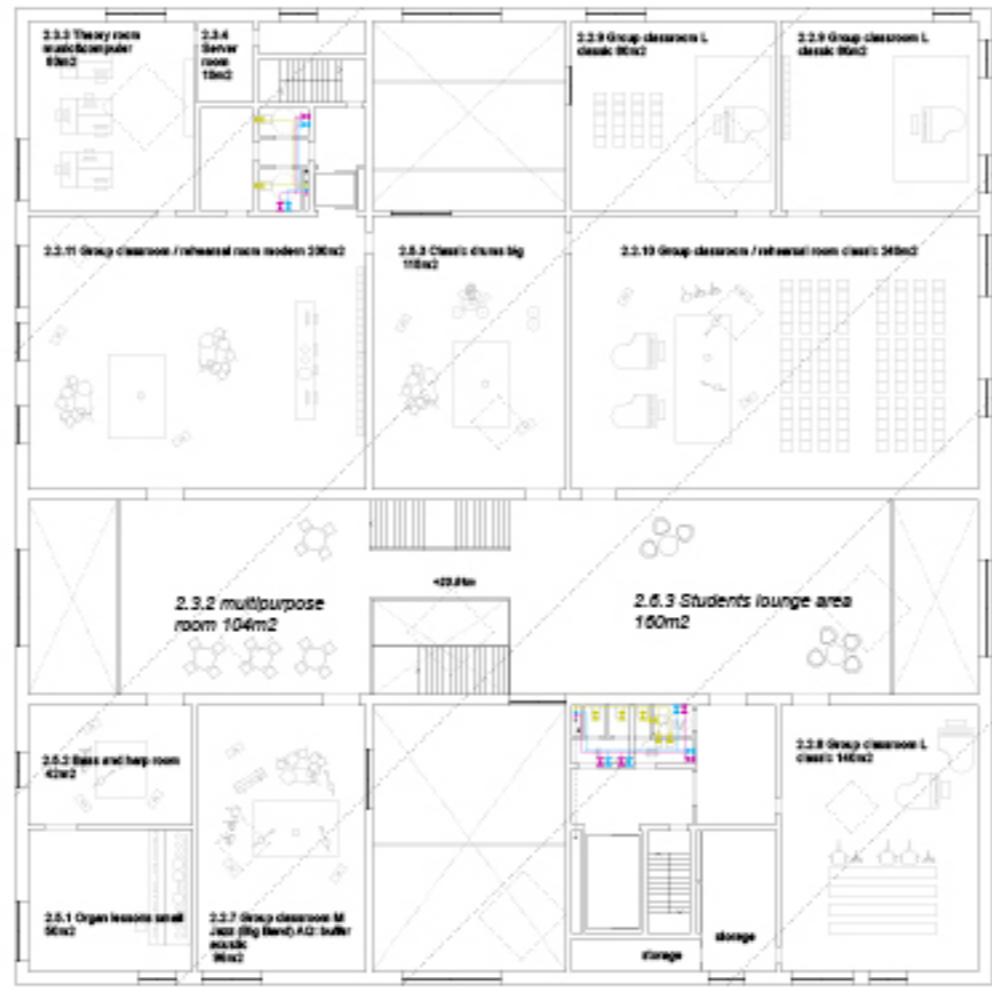
INSTANT FLOW

Sink: 0,15 - 0,20 l/s
Shower: 0,15 - 0,20 l/s
Urinary with fluor: 0,40 l/s
Urinary with collective tank: 0,05 l/s
Toilet with fluor: 1,5 l/s
Toilet with collective tank: 0,1 l/s
Fire sprinklers 0,05 l/s

- Stopcock
- Black water downpipe
- Grey water downpipe
- vertical supply pipe
- Hot water network
- Recycled water network
- Cold water network



Roof level - Shed



Fifth Floor - School rehearsal rooms

4. Pipes insulation

Both cold and hot water pipes must be thermally insulated with thicknesses indicated at IT 1.2.4.2 (RITE) in order to avoid condensations on cold pipes and heat loss on hot pipes.

5. Sanitary hot water

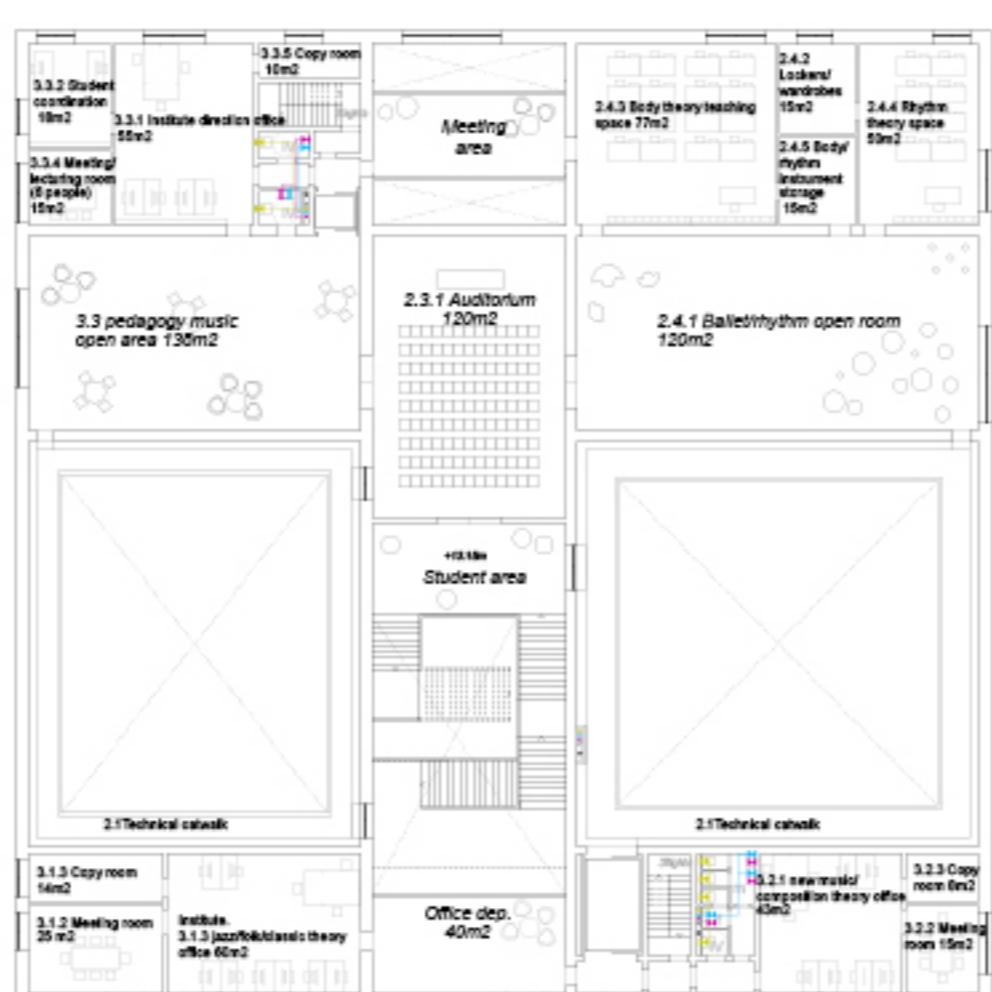
The installation of hot water will be limited to sinks and showers of the backstage and changing room spaces and the kitchen of the restaurant and cafe-bar. Systems for centralized hot water will have a limitation and regulation of the temperature distribution of the water exclusively for the showers.

6. General system

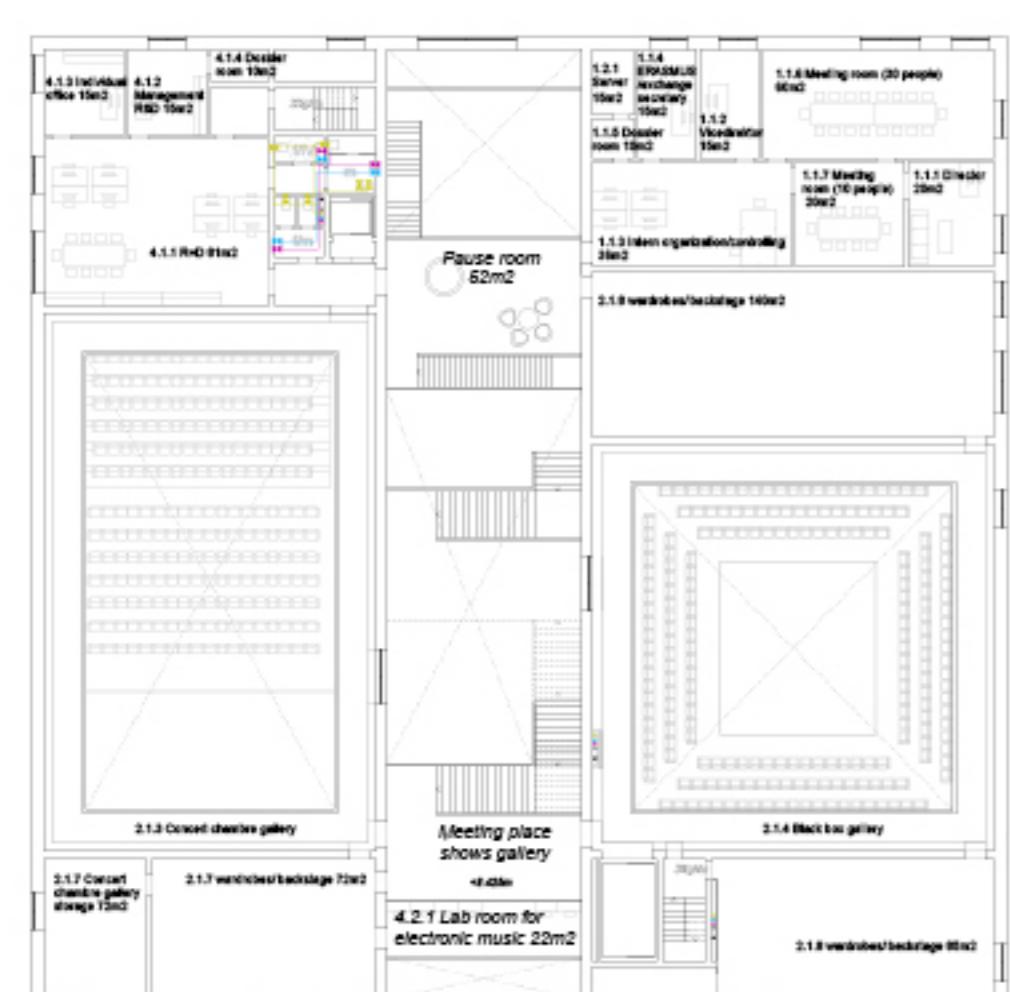
Water will be heated by the heat pump located in the basement, along with the energy from the geothermal system. The ACS water accumulator will afterwards treat the water to be distributed inside the building.



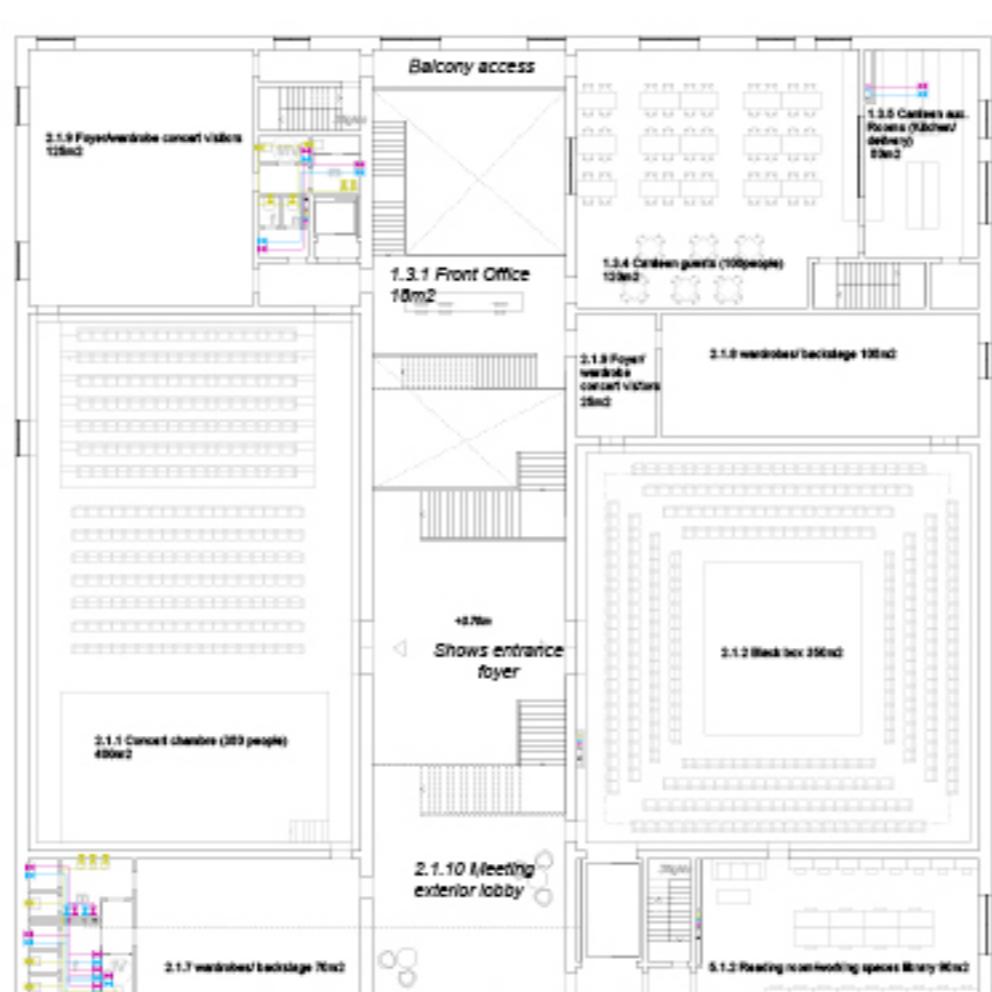
Fourth Floor - School theory rooms



Third Floor - Pedagogy/Body theory + institute departments



Second Floor - Pearl galleries/backstage + Management/Administration



First Floor

+3.900



Ground Floor - Library + Mediateche + Bar + Club + Front office



Ground Floor

-4.266