

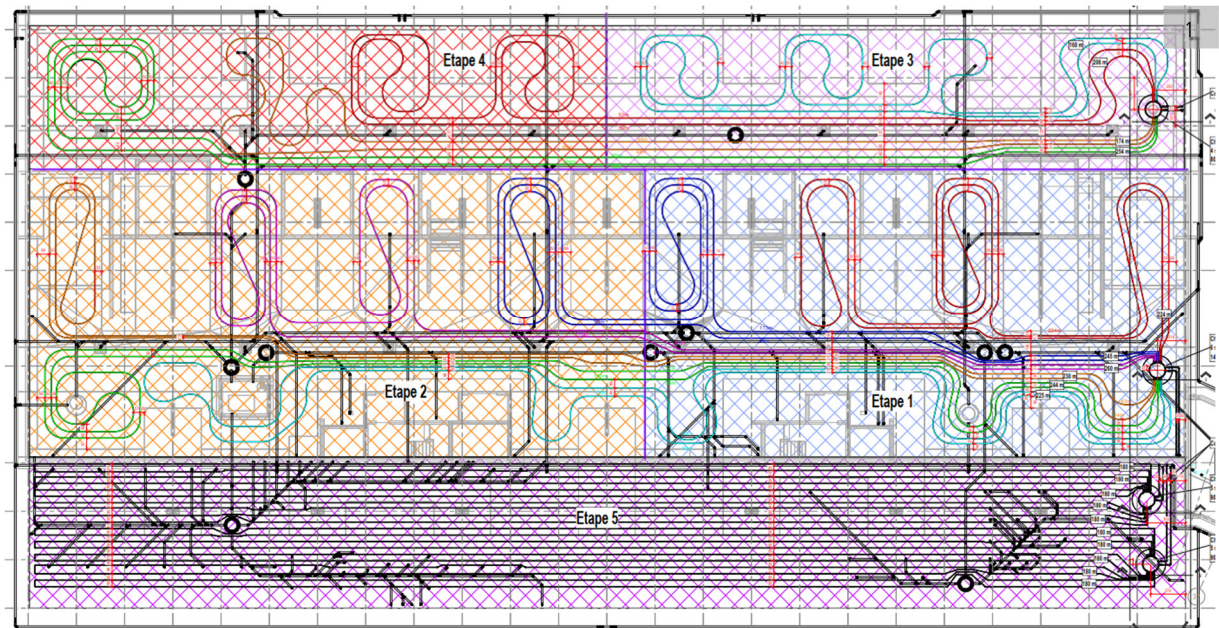


Image source: ARCINFO

Project report

GERO[®]therm[®] geostructures

VITEOS, Rue de l'Hôtel-de-Ville
2300 La Chaux-de-Fonds



VITEOS, the energy supplier of the canton of Neuchâtel, selected La Chaux-de-Fonds as the location for its brand-new building complex. Presented in January 2021, the strategic project aims to unite the majority of the workforce at a single main location in order to maximise operational efficiency and promote synergies between the different departments. The contract for the project named "Balance" was

awarded to the Zurich-based architecture firm GNWA, which won the planning competition; the design meets the criteria in terms of site integration, diversity of use and energy efficiency. As the cantonal benchmark in the energy sector and a company committed to a sustainable future, Viteos wanted to set an example for energy efficiency and reducing the CO2 footprint. The planned building is

intended to obtain both the Minergie-A certification and the Minergie-P certification. It was also decided to activate the entire area of the floor slab using a piping system, similar to the principle of underfloor heating.





1. Plan section – installation of geostructures (image source: Weinamn Energies SA)
2. Excavation pit during the installation of geostructures (image source: HakaGerodur AG)
3. GEROtherm® manhole specially developed for installation in the building foundation (image source: HakaGerodur AG)
4. GEROfit ANERGIE pipes during installation (image source: HakaGerodur AG)
5. GEROfit ANERGIE pipes during installation (image source: HakaGerodur AG)



For this project, the client commissioned Agtan SA to install the geostructure pipes. In order to maximise efficiency and heat exchange with the building, pipe registers distributed over the entire area of the floor slab were installed. A total of 4,030 metres of GEROfit ANERGIE pipes (diameter 32 mm) as well as 2,000 fastening clips were installed. The geostructure

pipework consists of pipes of the type HakaGerodur SA GEROfit ANERGIE PE 100-RC (32 mm, PN16). Thanks to their PP mechanical protection, GEROfit pipes are excellently suited for direct installation in the floor slab and are highly recommended for this purpose. For the loop connections, Agtan SA installed and connected four prefabricated

manholes specially designed for installation in the floor slab. These tailor-made manholes were completely manufactured in our workshops, guaranteeing quality in accordance with the "Swiss Made" standard.

Project details

Construction site



VITEOS
Rue de l'Hôtel-de-Ville
CH-2300 La Chaux-de-Fonds

Client



VITEOS SA
Quai Max-Petitpierre 4
2000 Neuchâtel

Engineer for HVAC and plumbing technology



WEINMANN
ENERGIES

Weinamn Energies SA
Chem. du Grésaley 4,
1040 Echallens

Executing company



Agtan SA
Ch.des Terreaux 3bis
1580 Avenches

Products used

- GEROfit ANGERGIE pipes
PE 100-RC, de 32 mm, PN16
de 43 mm, total length 4,030 metres
- 1 GEROtherm® manhole type 2+3
specially developed for installation in the
building foundation.
- 1 GEROtherm® manhole type 3+2
specially developed for installation in the
building foundation.
- 1 GEROtherm® manhole type 3+3
specially developed for installation in the
building foundation.
- 1 GEROtherm® manhole type 2+2
specially developed for installation in the
building foundation.



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