



Image source: Gross Generalunternehmung AG (www.gross-ag.ch)

Project report

GERO[®]therm[®] VARIO geothermal probes

Mattenhof 3, Zürich
8051 Zürich



84 high-quality new apartments with the required infrastructure for age-friendly, accessible living are planned for the third phase of the Mattenhof residential complex construction project (Mattenhof 3)

at Dübendorfstrasse 333-339, Zürich. The housing cooperative will reserve the ground floor for commercial and ancillary use (gym, recreation room, office). The new building is a large, coherent

structure that exploits the full potential of the site, with the residential mix providing the perfect complement to the existing housing in Mattenhof 1+2.



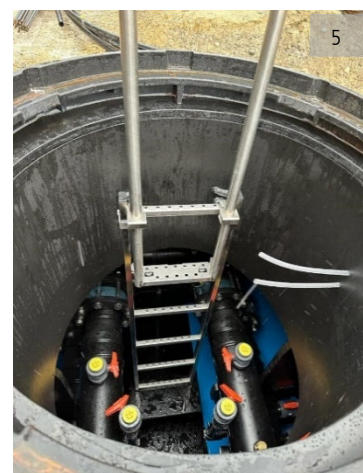
1. Building façade (image source: www.sunnigehof.ch)
2. The project team at the foundation stone laying ceremony, from left to right: Igor Pelivan, Christian Stöckli (Project Manager, Gross Generalunternehmung AG), Katrin Gondeck (Head of Construction, Sunnige Hof), Bersanti Mozzetti, Snezana Blickenstorfer (Members of the Board of Directors, Sunnige Hof) and Lars Henze (Chief Architect, Galli Rudolf Architekten) (image source: www.sunnigehof.ch)
3. Mattenhof Zürich construction site photo (image source: Isorol Tacker AG)
4. GEROtherm® manhole Type 4 (image source: Isorol Tacker AG)
5. GEROtherm® manhole Type 4 access ladder (image source: Isorol Tacker AG)
6. GEROtherm® VARIO being sunk (image source: Isorol Tacker AG)
7. Mattenhof Zürich construction site photo (image source: Isorol Tacker AG)

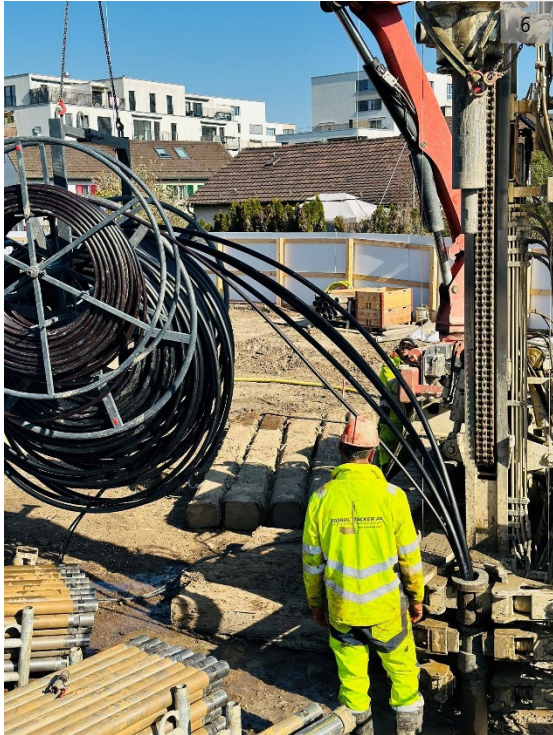
28 GEROtherm® VARIO geothermal probes were used for the probe array. Pressure loss on the conical, pressure-optimised GEROtherm® VARIO geothermal probes is significantly reduced in comparison with a PN20 geothermal probe, resulting in lower energy requirements for the circulation pump. Geothermal drilling specialists Isorol Tacker AG were on site with the drilling

equipment required to drill the boreholes, which were then backfilled. Each geothermal probe was tested and the results recorded using a measuring device for pressure and flow tests (in accordance with standard SIA 384/6 of the Swiss Society of Engineers and Architects).

The probes were connected using our GEROtherm® manhole Type 4, a plastic manhole equipped with a

plastic ball shut-off valve, a filling and emptying valve, and flow regulating valves. This allows the optimal integration of each geothermal probe into the probe network and correct hydraulic matching of the various circuits to each other to achieve the best performance.





Project details

Construction site

Mattenhof 3
Dübendorfstrasse 333-339
8051 Zürich, Switzerland

General contractor

GROSS

Gross Generalunternehmung AG
8304 Wallisellen, Switzerland
www.gross-ag.ch

Client



SUNNIGE HOF

Siedlungsgenossenschaft Sunnige Hof
Mattenhof 25
8051 Zürich, Switzerland
www.sunnigehof.ch

HVAC engineers

CONCEPT

GEBAUDETECHNIK AUF MASS

Concept-G AG

8400 Winterthur, Switzerland

Architects

GALLI | RUDOLF

Galli Rudolf Architekten AG
8003 Zürich, Switzerland

Drilling company



Isorol Tacker AG
Motorenstrasse 34
8620 Wetzikon, Switzerland
www.isorol-tacker.ch

Products used

- 28x GEROtherm® VARIO geothermal probes, de (outer diameter) 40 mm, length 265 metres
- 1x GEROtherm® manhole Type 4, 28 x 50, incl. access ladder
- 28x GEROtherm®, initial weight 19 kg



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