

# ADMINISTRATIVE BUILDING

SÜDTIROLERSTRASSE

Hollow piles in steel used to harness geothermal energy



## Administrative Building

comprising of 3 towers with 7 floors and 3 sublevels

Floor space: 38.880 m<sup>2</sup>

Total volume: 150.300 m<sup>3</sup>

Completion: 2005

## Clients

Bolzano Municipal Council

Institute of Public Housing Construction of the Province of South Tyrol

Bolzano Chamber of Commerce

## Architect

Dr. Arch. Wolfgang Simmer, Bolzano

## Building services planning

Felderer-Klammsteiner Consulting Engineers, Bolzano



## Hollow Piles in Steel

340 micro-piles in steel tube, length 15 m were installed as shoring for the construction pit. Each of these piles is fitted with HDPE piping 20 x 2 mm.

Total length of piping: 20.000 m

The 111 circuits incorporated in the pile system are connected to 5 submanifolds which are in turn connected to the main manifold in the technical services room via flow and return lines.



## Ground Slab System

6.000 m<sup>2</sup> of ground slab are fitted with 23.500 linear meters of HDPE piping 25 x 2,3 mm. The 110 absorber units in the ground slab are connected to 6 submanifolds, from which the flow and return lines lead to the technical services room

## Total Capacity of the enercret installation

Cooling capacity	80 kW
Heating capacity	370 kW
Annual cooling output	134 MWh
Annual heating output	450 MWh