



REPORT

LARGE AND DEEP FOUNDATION PIT

SHOPING CENTER NEW SMICHOV PRAGUE 5

DIAPHRAGM WALLS, GROUND ANCHORS, SHOTCRETE, BORED PILES



In Prague next to the metro station Andel Creation Group as based on an open construction pit construction Culturally commercial centers (KOC) under the project FG Consult Ltd. Braced large pit was carried anchored diaphragm walls construction. Foundations for a 6-storey building was placed on the big-deep piles. The bedrock consists of shale at a depth of 15.5 meters, which are covered terrace sediments, gravel sites with loamy sand, the water table is 1.5 m below the foundation base. When výkopku for guiding wall was necessary to make the old foundation walls and the original masonry stabilization bailouts. Along the street Plzenska maintained perimeter walls of the former factory, as an element of cultural heritage for future generations. Masonry gable wall was horizontally reinforced and supported by a steel truss structures based on the threshold of reinforced concrete. Threshold was injected groups support the

micro. Waterproof construction of diaphragm wall with a thickness of 600 mm, was anchored by temporary 3-6 strand ground anchors in one or two levels with a total length of anchor 4356 m. The area of diaphragm walls was 9620 square meters, were excavated grabs Soilmec BH12 on media LIEBHERR 843 On the building were made pilotovací work. Drilling rigs Soilmec R12, WIRTH ECO DRILL 16 and Casagrande excavated piles O 600 to O 1800 mm. Pilot wells were bracing steel casing or bentonite slurry to the protection of the mouth of the borehole through the casing zavibrované of 6 select up to 10 m. A total of 346 pieces made piles. In the northern part of the site divided the site kept relaying Kartouzská ullice after vráceníp eložky the new routes were completed earthworks, pile foundations and anchors. The specialty of construction of the new building is not used commercially third underground floor, which is already below the level of groundwater flow in one hundred (Q100) in the Vltava

