

Displacement Piles with B175XP carrier

PROJECT DESCRIPTION

- New terminal of airport, Venice, ITALY
- Project description: Piles as foundation of new buildings
- Schedule of foundations: 2018

PROJECT QUANTITIES AND GENERAL DATA

- Type of piles: Displacement Piles
- Diameter: 620 mm
- Quantity: n° 155 piles
- Depth: 18 m
- Reinforcement: fully caged

SOIL FEATURES

- 0 ÷ 1 m: backfill of gravel for soil consolidation
- 1 ÷ 18 m: white silty clay - from loose to very compact – wide variability in the site

PRODUCTION DATA

- Average productivity: 6 piles / day (10 hours)
- Productivity: min 3 - max 8 piles/day according to the soil conditions

EQUIPMENT

- Casagrande B175XP equipped in Displacement Piles arrangement for:
 - 19,5 m maximum drilling depth with 6 m kelly extension
 - 280 kN / 280 kN- nominal extraction / crowd force
 - H18 rotary head – up to 175 kNm nominal torque
 - 194 kW power by QSB 6.7 Cummins engine - Exhaust emission EU Stage 4
 - Dialog – Jean Lutz instrumentation for monitoring and recording drilling data