BAKHTI Software Ltd
Civil engineering software development
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Project:

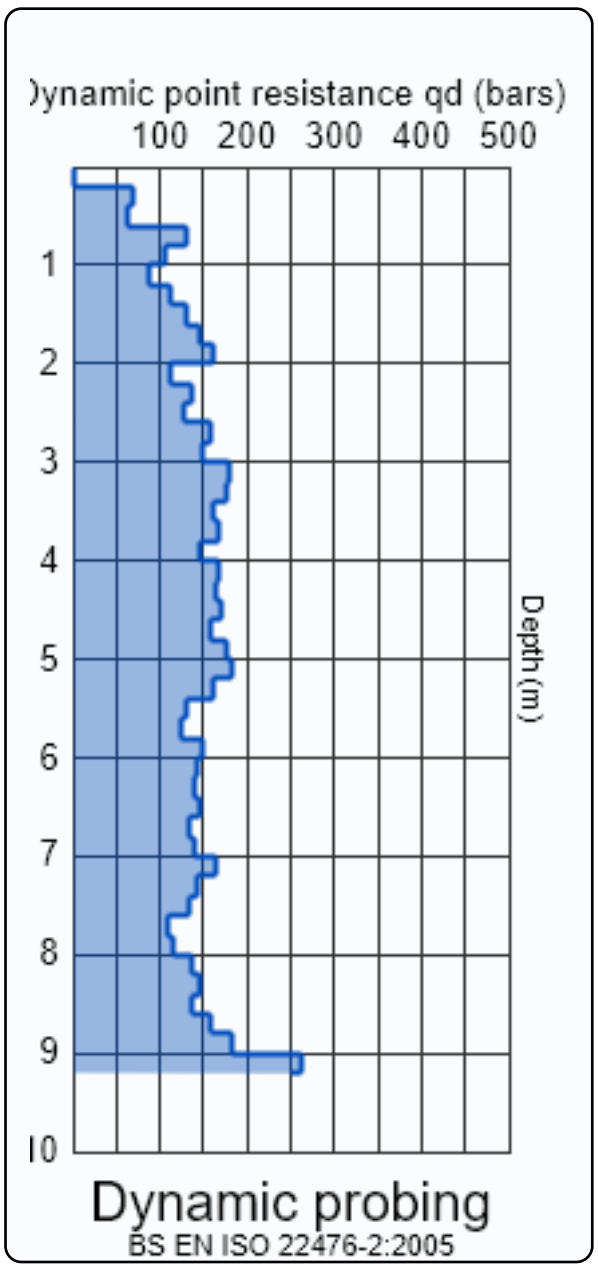
Client:
Location:
Date: 2026-09-28

Bearing capacity: Dynamic probing

Standard: DTR BC 2.331

Formulas:

$$q_{all} = \frac{q_{ult} - \gamma_1 D}{F} + \gamma_1 D \text{ With } q_{ult} = \frac{q_d^e}{\beta}$$



Detailed Calculations:

Dynamic cone resistance $(q_d^e) = 12840,99$ kPa

The soil density $(\gamma_1) = 18,00$ kN/m^3

The embedding depth $(D) = 2$ m

Safety factor ≥ 3; $F = 4$

Lift coefficient between 5 and 7; $\beta = 5$

Results:

Allowable bearing capacity: $q_{all} = 669,05$kPa ✅

Ultimate bearing capacity: $q_{ult} = 2568,20$ kPa