

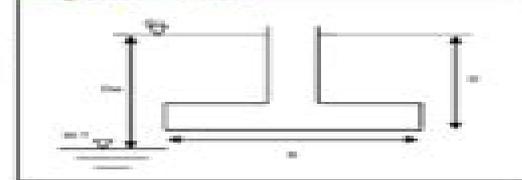
Design Formula for Foundation Design (IStructE Part III Examination)

Founding Materials	Parameter Given	Footing Scheme
CLAY	Undrained Shear Strength, C_u	<p>Quick calculation for allowable bearing capacity, q_a.</p> <ol style="list-style-type: none"> $q_u = 2C_u$ (if Cohesion, C is given) $q_u = C_u N_c / F$ <p>C_u - undrained shear strength N_c - 5.4 (Meyerhof's bearing capacity factors for a shallow strip footing) - 5.0 (min) for square and circle (By Skempton) F - Factor of Safety (i.e. take 3)</p>
SAND	Angle of shear resistance ϕ or SPT 'N'	<p>Quick calculation for allowable bearing capacity, q_a.</p> <ol style="list-style-type: none"> $q_u = 10 \times 'N'$ value in KPa. ($D_w > B = D$) $q_u = 5 \times 'N'$ value in KPa. ($D_w < B = D$) <p>Notes: The settlement is assumed to be less than 25mm and a factor of safety of 3 is applied in the q_u calculated from above equation. - Terzaghi & Peck</p> <ol style="list-style-type: none"> ϕ is given ($\phi > 30^\circ$) $\phi = 27 + 0.3 'N'$ $\rightarrow 'N'$ is calculated $\rightarrow q_u$ is calculated from (1) <p>Notes: The soil should be designed as clay if $\phi < 30^\circ$ and $C_u = 4 \times 'N'$ (kPa)</p>

TIPS

- GO TO PILE DESIGN IF...
- 1) Size of footing $> 1.2 \times$ Col Spacing
 - 2) Swelling Clay
 - 3) Substantially thick compressive soil strata
 - 4) SO_c and μH value of soil

Diagram of Footing



Foundation Design - Footing

Founding Materials	Parameter Given	Pile Scheme
CLAY	Undrained Shear Strength, C_u	<p>Quick calculation for pile foundation, Q_u. - (By Skempton)</p> <ol style="list-style-type: none"> $Q_u = (Q_s + Q_t) / F$ $Q_s = (\pi D L) \times \alpha$ α = average of (C_u) $Q_t = C_{ub} N_c \times A_c$ (N_c take 9 for deep pile) <p>α - Adhesion factor (take 0.5 for bored pile) D - Diameter of pile L - Length of pile C_{ub} - Undrained shear strength at the base of pile Average of C_u = The average of C_u at top and bottom of pile i.e. $[C_u(\text{Top}) + C_u(\text{Bottom})] \times 0.5$</p> <p>$F$ - Factor of Safety (i.e. take 2.5) A_c - Cross-sectional area of pile</p>
SAND	Angle of shear resistance ϕ or SPT 'N'	<p>Quick calculation for pile foundation, Q_u. - (By Tomlinson)</p> <ol style="list-style-type: none"> $Q_u = (Q_s + Q_t) / F$ (F take 2.5) $Q_s = (\pi D L) \times$ average of $(\alpha_c) \times k \tan \phi$ Average of $(\alpha_c) = 0.5 \times \alpha_c = 0.5 \times \gamma' \times L$ $k \tan \phi = 0.25$ where $(k = 0.3 \text{ \& } \phi = 0.5\phi)$ $(\phi = 27 + 0.3 'N')$ $Q_t = \alpha_c \times N_c \times A_c$ (N_c is derived as a function of ϕ and D/B from chart in Tomlinson) <p>Note: For tension pile, $Q_u = Q_s$ and $Q_t = Q_u/3$</p>

TIPS

- PRACTICE in UK...
- 1) Common size of Bored Pile is around 1m - 1.5m

TIPS

- Other Design Requirement....
- 1) Group Reduction Factor 0.85 for 5 piles or more
 - 2) Pile spacing $> 3D$
 - 3) 0.4% min reinforcement
 - 4) Min. Grade 600 concrete
 - 5) Shaft stress $< 0.25f_{ck}$
 - 6) Min. cover = 75mm

Foundation Design - Piling

Istructe Past Papers

Chao Zhang



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The Structural Engineer, 2006 *Steel Designers' Manual* SCI (Steel Construction Institute), 2016-06-27 In 2010 the then current European national standards for building and construction were replaced by the EN Eurocodes a set of pan European model building codes developed by the European Committee for Standardization The Eurocodes are a series of 10 European Standards EN 1990 EN 1999 that provide a common approach for the design of buildings other civil engineering works and construction products The design standards embodied in these Eurocodes will be used for all European public works and are set to become the de facto standard for the private sector in Europe with probable adoption in many other countries This classic manual on structural steelwork design was first published in 1955 since when it has sold many tens of thousands of copies worldwide For the seventh edition of the Steel Designers Manual all chapters have been comprehensively reviewed revised to ensure they reflect current approaches and best practice and brought in to compliance with EN 1993 Design of Steel Structures the so called Eurocode 3 **The Consulting Engineers Who's who & Year Book**, 1987 Association of Consulting Engineers Who's who & Year Book, 1990 **Structural Design of Buildings** Feng Fu, David Richardson, 2024-07-25 Structural Design of Buildings Holistic Design is the essential reference for structural engineers involved in the design of buildings and other structures It forms part of the Structural Design of Buildings series and introduces the concepts and principles involved in holistic structural design of a building **New Civil Engineer**, 1978 Who's who of British Engineers, 1980 *Seismic Design of Buildings to Eurocode 8* Ahmed Elghazouli, 2016-12-19 This book focuses on the seismic design of building structures and their foundations to Eurocode 8 It covers the principles of seismic design in a clear but brief manner and then links these concepts to the provisions of Eurocode 8 It addresses the fundamental concepts related to seismic hazard ground motion models basic dynamics seismic analysis siting considerations structural layout and design philosophies then leads to the specifics of Eurocode 8 Code procedures are applied with the aid of walk through design examples which where possible deal with a common case study in most chapters As well as an update throughout this second edition incorporates three new and topical chapters dedicated to specific seismic design aspects of timber buildings and masonry structures as well as base isolation and supplemental damping There is renewed interest in the use of sustainable timber buildings and masonry structures still represent a popular choice in many areas Moreover seismic isolation and supplemental damping can offer low damage solutions which are being increasingly considered in practice The book stems primarily from practical short courses on seismic design which have been run over a number of years and through the development Eurocode 8 The contributors to this book are either specialist academics with significant consulting experience in seismic design or leading practitioners who are actively engaged in large projects in seismic areas This experience has provided significant insight into important areas in which guidance is required Solving Problems in Solid Mechanics Sydney Allandale Urry, Peter John Turner, 1986 *The Motorway Achievement* Ron Bridle, John Porter, 2002-09-30

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