

1. Record Nr.	UNISA996208438703316
Titolo	Recommendations on excavations : EAB // published by the German Geotechnical Society (Deutsche Gesellschaft fur Geotechnik e.V., DGGT)
Pubbl/distr/stampa	Berlin, Germany : , : Ernst & Sohn, , 2014 ©2014
ISBN	3-433-60400-2 3-433-60397-9 3-433-60398-7
Edizione	[Third edition.]
Descrizione fisica	1 online resource (325 p.)
Disciplina	624.152
Soggetti	Excavation Excavation - Standards
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Translation of the 5th German edition.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Cover; Title page; Members of the Working Group for Excavations; Preface; Notes for the User; Contents; 1 Introduction; 1.1 Engineering prerequisites for applying the Recommendations (R 1); 1.2 Governing regulations (R 76); 1.3 Safety factor approach (R 77); 1.4 Limit states (R 78); 1.5 Support of retaining walls (R 67); 1.6 Planning and examination of excavations (R 106); 2 Analysis principles; 2.1 Actions (R 24); 2.2 Determination of soil properties (R 2); 2.3 Earth pressure angle (R 89); 2.4 Partial safety factors (R 79); 2.5 General requirements for adopting live loads (R 3) 2.6 Live loads from road and rail traffic (R 55)2.7 Live loads from site traffic and site operations (R 56); 2.8 Live loads from excavators and lifting equipment (R 57); 3 Magnitude and distribution of earth pressure; 3.1 Magnitude of earth pressure as a function of the selected construction method (R 8); 3.2 Magnitude of total active earth pressure lead without surcharge loads (R 4); 3.3 Distribution of active earth pressure without surcharges (R 5); 3.4 Magnitude of total active earth pressure lead from live loads (R 6); 3.5 Distribution of active earth pressure from live loads (R 7) 3.6 Superimposing earth pressure components with surcharges (R 71)

3.7 Determination of at-rest earth pressure (R 18); 3.8 Earth pressure in retreating states (R 68); 4 General stipulations for analysis; 4.1 Stability analysis (R 81); 4.2 General information on analysis methods (R 11); 4.3 Determination and analysis of embedment depth (R 80); 4.4 Determination of action effects (R 82); 4.5 Modulus of subgrade reaction method (R 102); 4.6 Finite-element method (R 103); 4.7 Analysis of the vertical component of the mobilised passive earth pressure (R 9)
4.8 Analysis of the transfer of vertical forces into the subsurface (R 84)
4.9 Stability analyses for braced excavations in special cases (R 10);
4.10 Serviceability analysis (R 83); 4.11 Allowable simplifications in limit states GEO 2 or STR (R 104); 5 Analysis approaches for soldier pile walls; 5.1 Determination of load models for soldier pile walls (R 12); 5.2 Pressure diagrams for supported soldier pile walls (R 69); 5.3 Soil reactions and passive earth pressure for soldier pile walls with free earth supports (R 14); 5.4 Fixed earth support for soldier pile walls (R 25)
5.5 Equilibrium of horizontal forces for soldier pile walls (R 15)6
Analysis approaches for sheet pile walls and in-situ concrete walls; 6.1 Determination of load models for sheet pile walls and in-situ concrete walls (R 16); 6.2 Pressure diagrams for supported sheet pile walls and in-situ concrete walls (R 70); 6.3 Ground reactions and passive earth pressure for sheet pile walls and in-situ concrete walls with free earth support (R 19); 6.4 Fixed earth support for sheet pile walls and in-situ concrete walls (R 26); 7 Anchored retaining walls
7.1 Magnitude and distribution of earth pressure for anchored retaining walls (R 42)