

1. Record Nr.	UNINA9910142395003321
Autore	Arbeitsausschuss
Titolo	Recommendations of the committee for waterfront structures : harbours and waterways EAU 2004 // Arbeitsausschuss
Pubbl/distr/stampa	Berlin : , : Wilhelm Ernst & Sohn Verlag, , [2006] ©2006
ISBN	3-433-60144-5 1-283-43211-0 9786613432117 3-433-60141-0 3-433-60142-9 1-60119-301-7
Edizione	[8th ed.]
Descrizione fisica	1 online resource (658 p.)
Disciplina	627.58
Soggetti	Harbors - Design and construction - Standards Waterfronts Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Members of the Committee for Waterfront Structures; Preface to the 8th Revised Edition; Table of Contents; List of Recommendations in the 8th Edition; Recommendations; 0 Structural calculations; 0.1 General; 0.2 Safety concept; 0.3 Calculations for waterfront structures; 1 Subsoil; 1.1 Mean characteristic soil properties (R 9); 1.2 Layout and depth of boreholes and penetrometer tests (R 1); 1.3 Preparation of subsoil investigation reports, expert opinions and foundation recommendations for waterfront structures (R 150); 1.4 Determination of undrained shear strength cu in field tests (R 88) 1.5 Investigation of the degree of density of non-cohesive backfill for waterfront structures (R 71) 1.6 Degree of density of hydraulically filled, non-cohesive soils (R 175); 1.7 Degree of density of dumped, non-cohesive soils (R 178); 1.8 Assessment of the subsoil for the installation of sheet piles and piles and methods of installation (R 154); 2 Active and passive earth pressures; 2.0 General; 2.1 Assumed

apparent cohesion (capillary cohesion) in sand (R 2); 2.2 Assumed apparent cohesion (capillary cohesion) in sand (R 3); 2.3 Assumed angle of earth pressure and adhesion (R 4)  
2.4 Determination of the active earth pressure using the CULMANN method (R 171) 2.5 Determination of active earth pressure in a steep, paved embankment of a partially sloping bank construction (R 198); 2.6 Determination of active earth pressure in saturated, non- or partially consolidated, soft cohesive soils (R 130); 2.7 Effect of artesian water pressure under harbour bottom or riverbed on active and passive earth pressure (R 52)  
2.8 Use of active earth pressure and water pressure difference, and construction advice for waterfront structures with soil replacement and fouled or disturbed dredge pit bottom (R 110) 2.9 Effect of percolating groundwater on water pressure difference, active and passive earth pressures (R 114); 2.10 Determining the amount of displacement required for the mobilisation of passive earth pressure in non-cohesive soils (R 174); 2.11 Measures for increasing the passive earth pressure in front of waterfront structures (R 164)  
2.12 Passive earth pressure in front of sheet piles in soft cohesive soils, with rapid loading on the land side (R 190) 2.13 Effects of earthquakes on the design and dimensioning of waterfront structures (R 124); 3 Overall stability, foundation failure and sliding; 3.1 Relevant standards; 3.2 Safety against failure by hydraulic heave (R 115); 3.3 Piping (foundation failure due to erosion) (R 116); 3.4 Verification of overall stability of structures on elevated piled structures (R 170); 4 Water levels, water pressure, drainage; 4.1 Mean groundwater level (R 58) 4.2 Water pressure difference in the water-side direction (R 19)

---

## Sommario/riassunto

Since 1949 the "Committee for Waterfront Structures" has operated on honorary base as a committee of the Society for Harbour Engineering (HTG), Hamburg, and since 1951 also as working group of the German Society for Geotechnics (DGGT), Essen. Its full designation reads "Committee for Simplification and Standardization of Calculation and Construction of Waterfront Structures", which also outlines its goals. Following on from the previous joint publications, this new edition of EAU 2004 contains the safety concept with partial safety factors in accordance with the Eurocodes or the European pr

---