

DIN 4093:2015-11 (E)

Design of strengthened soil - Set up by means of jet grouting, deep mixing or grouting

Contents

	Page
Foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions and symbols	5
3.1 Terms and definitions	5
3.2 Symbols	6
4 Soil solidification	7
4.1 General requirements	7
4.2 Classification into geotechnical categories	8
4.3 Action and effects of actions	8
4.3.1 General	8
4.3.2 Actions specific to foundation engineering	9
4.3.3 Dynamic actions	9
4.3.4 Characteristic effects of actions	9
4.3.5 Design values of effects of actions	9
4.4 Resistances	9
4.4.1 General	9
4.4.2 Characteristic strength	9
4.4.3 Deformation behaviour	11
4.4.4 Design value of strength	11
4.4.5 Anchoring in jet grouted slabs	12
4.4.6 Geometrical dimensions of solidified soil	13
4.5 Durability	14
4.6 Bearing capacity verification	14
4.7 Serviceability verification	14
4.8 Testing and controls	14
Annex A (normative) Strength testing	15
Annex B (normative) Creep testing	16
B.1 General	16
B.2 Soil solidification with cement	16
B.3 Soil solidification with silica gel	17