

ISO 22477-1:2018 (E)

Geotechnical investigation and testing — Testing of geotechnical structures — Part 1: Testing of piles: static compression load testing

Contents

	Foreword
1	Scope
2	Normative references
3	Terms, definitions and symbols
3.1	Terms and definitions
3.2	Symbols
4	Equipment
4.1	General
4.2	Reaction device
4.3	Force input
4.3.1	General
4.3.2	Specifications of force input
4.4	Measurement of pile head displacements
4.5	Measurement of pile load
4.6	Pile instrumentation
5	Test procedure
5.1	Test preparation
5.1.1	Protections
5.1.2	Construction of a test pile
5.1.3	Test date
5.1.4	Preparation of the pile cap
5.2	Loading procedure
5.2.1	General
5.2.2	Load step sequence and duration of load steps for one cycle procedure
5.2.3	Load step sequence and duration of load steps for multiple cycle procedure
5.2.4	Maximum test load F_p
5.2.5	Measuring intervals
6	Test report
6.1	General
6.2	General information
6.3	Data report
6.4	Interpretative report
Annex A	(informative) Critical creep load in compression
Annex B	(informative) Bi-directional load testing
B.1	General
B.2	Location and number of jacks
B.3	Installation of embedded jacks
B.4	Force measurement
B.5	Pile displacement measurements
B.6	Loading procedures
B.7	Test report