

ISO 22477-2:2023-07 (E)

Geotechnical investigation and testing - Testing of geotechnical structures - Part 2: Testing of piles: Static tension load testing

| Contents | | Page |
|---|---|-------------|
| Foreword | | iv |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms, definitions and symbols | 1 |
| 3.1 | Terms, definitions | 2 |
| 3.2 | Symbols | 2 |
| 4 | Equipment | 3 |
| 4.1 | General | 3 |
| 4.2 | Reaction device | 3 |
| 4.3 | Force Input | 4 |
| 4.3.1 | General | 4 |
| 4.3.2 | Specifications of force input | 5 |
| 4.4 | Measurement of pile head displacements | 5 |
| 4.5 | Measurement of pile load | 6 |
| 4.6 | Pile instrumentation | 6 |
| 5 | Test procedure | 7 |
| 5.1 | Test preparation | 7 |
| 5.1.1 | Protections | 7 |
| 5.1.2 | Construction of a test pile | 7 |
| 5.1.3 | Test date | 8 |
| 5.2 | Loading procedure | 8 |
| 5.2.1 | General | 8 |
| 5.2.2 | Load step sequence and duration of load steps for one cycle procedure | 8 |
| 5.2.3 | Load step sequence and duration of load steps for multiple cycle procedure | 9 |
| 5.2.4 | Maximum test load F_p | 10 |
| 5.2.5 | Measuring intervals | 10 |
| 6 | Test report | 11 |
| 6.1 | General | 11 |
| 6.2 | General information | 11 |
| 6.3 | Data report | 12 |
| 6.4 | Interpretative report | 13 |
| Annex A (informative) Critical creep load in tension | | 18 |
| Bibliography | | 19 |