

DIN EN 12390-4:2025-05 (E)

Testing hardened concrete - Part 4: Compressive strength - Specification for testing machines

| Contents | | Page |
|---|---|-------------|
| European foreword | | 3 |
| Introduction | | 5 |
| 1 | Scope | 6 |
| 2 | Normative references | 6 |
| 3 | Terms and definitions | 6 |
| 4 | Construction of machines | 7 |
| 4.1 | General | 7 |
| 4.2 | Machine platens, auxiliary platens and spacing blocks | 7 |
| 4.3 | Classes of testing machines | 8 |
| 4.4 | Force measurement | 8 |
| 4.5 | Force control | 9 |
| 4.6 | Force transfer | 9 |
| 4.7 | Specimen location | 11 |
| 4.8 | Frequency of verification and calibration | 11 |
| 5 | Details to be provided by the supplier/manufacture | 11 |
| 5.1 | Specification | 11 |
| 5.2 | Installation and connection | 12 |
| 5.3 | Maintenance | 12 |
| Annex A (normative) Strain gauged column and proving procedure for compression testing machines | | 13 |
| A.1 | General | 13 |
| A.2 | The strain gauged column | 13 |
| A.3 | Strain gauged column verification procedure | 14 |
| A.4 | Procedure for verifying the self-alignment of the upper machine platen and the component parts of the machine | 15 |
| A.5 | Self-alignment of the upper machine platen | 15 |
| A.6 | Alignment of the component parts of the machine | 15 |
| A.7 | Procedure for verifying restraint on movement of the upper platen | 15 |
| A.8 | Safety requirements | 16 |
| Bibliography | | 17 |