ISO 1920-4:2020-01 (E)

Testing of concrete - Part 4: Strength of hardened concrete

Contents

Page

Foreword ..... **iv**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 Determination of compressive strength **1**
- 4.1 Test specimens 1
- 4.2 Apparatus 2
- 4.3 Age at test 2
- 4.4 Number of specimens 2
- 4.5 Procedure 2
  - 4.5.1 Preparation and positioning of specimens 2
  - 4.5.2 Loading 3
  - 4.5.3 Assessment of type of failure 3
- 4.6 Test results 6
- 4.7 Test report 6

5 Determination of flexural strength **6**
- 5.1 Test specimens 6
- 5.2 Age at test 6
- 5.3 Number of specimens 6
- 5.4 Apparatus 7
- 5.5 Force application 7
- 5.6 Procedures 8
  - 5.6.1 Preparation and positioning of specimens 8
  - 5.6.2 Loading 9
  - 5.6.3 Assessment of type of fracture 9
- 5.7 Test results 10
- 5.8 Test report 11

6 Determination of tensile splitting strength **11**
- 6.1 Specimens 11
- 6.2 Apparatus 11
- 6.3 Age at test 13
- 6.4 Number of specimens 13
- 6.5 Procedure 13
  - 6.5.1 Condition of specimen at the time of testing: 13
  - 6.5.2 Marking 13
  - 6.5.3 Specimen positioning 14
  - 6.5.4 Loading 14
  - 6.5.5 Examination of specimen 14
- 6.6 Test results 15
- 6.7 Test report 15

7 Test report **15**

Annex A (informative) **Precision data for measurements of compressive strength** **17**

Annex B (normative) **Adjustment of test specimens for the compressive strength test** **18**

Annex C (informative) **Examples of test reports** **27**

Bibliography **30**