ISO 10406-2:2008-12 (E)

Fibre-reinforced polymer (FRP) reinforcement of concrete - Test methods - Part 2: FRP sheets

Contents

Page

Foreword v

1 Scope 1

2 Normative references 1

3 Definitions and symbols 1
3.1 Definitions 1
3.2 Symbols 4

4 General provision concerning test pieces 5

5 Test method for determining tensile properties 5
5.1 Test pieces 5
5.2 Testing machine and measuring devices 9
5.3 Test method 9
5.4 Calculation and expression of test results 10
5.5 Test report 11

6 Test method for overlap splice strength 12
6.1 Test pieces 12
6.2 Testing machine 14
6.3 Test method 14
6.4 Calculation and expression of test results 14
6.5 Test report 15

7 Test method for determining bond properties of fibre-reinforced polymer (FRP) sheets to concrete 16
7.1 Test pieces 16
7.2 Testing machine and measuring devices 20
7.3 Test method 20
7.4 Calculation and expression of test results 21
7.5 Test report 22

8 Test method for direct pull-off strength of FRP sheets with concrete 23
8.1 Test pieces 23
8.2 Testing machine and measuring devices 24
8.3 Test method 24
8.4 Calculation and expression of test results 25
8.5 Test report 25

9 Test method for freeze/thaw resistance 26
9.1 Test pieces 26
9.2 Testing machine and measuring devices 26
9.3 Test method 27
9.4 Calculation and expression of test results 27
9.5 Test report 28

10 Test method for exposure to laboratory light sources 29
10.1 Test pieces 29
10.2 Testing machine and measuring devices 29

10.3 Test method 30
10.4 Calculation and expression of test results 30
10.5 Test report 31
11 Test method for durability 32
11.1 Types of test methods for durability 32
11.2 Test piece 32
11.3 Test method 32
11.4 Calculation and expression of test results 34
11.5 Test report 34