

DIN EN ISO 15630-2:2019-05 (E)

Steel for the reinforcement and prestressing of concrete - Test methods - Part 2: Welded fabric and lattice girders (ISO 15630-2: 2019)

Contents		Page
European foreword		4
Foreword		5
Introduction		6
1 Scope		7
2 Normative references		7
3 Terms, definitions and symbols		7
4 General provisions concerning test pieces		8
5 Tensile test		9
5.1 Test piece		9
5.2 Test equipment.....		9
5.3 Test procedure.....		9
6 Bend test on welded intersection of welded fabric		11
6.1 Test piece		11
6.2 Test equipment.....		11
6.3 Test procedure.....		11
6.4 Interpretation of test results.....		12
7 Shear test		12
7.1 Determination of the weld shear force of welded fabric (F_S)		12
7.1.1 Test piece.....		12
7.1.2 Test equipment.....		12
7.1.3 Test procedure.....		16
7.2 Lattice girders.....		17
7.2.1 Shear test on weld points.....		17
7.2.2 Shear test on clamped joints.....		18
7.2.3 Test apparatus.....		21
7.2.4 Test piece.....		21
7.2.5 Test procedure.....		21
8 Axial force fatigue test of welded fabric		22
8.1 Principle of test.....		22
8.2 Test piece		22
8.3 Test equipment.....		22
8.4 Test procedure.....		23
8.4.1 Provisions concerning the test piece.....		23
8.4.2 Upper force (F_{up}) and force range (F_R).....		23
8.4.3 Stability of force and frequency.....		23
8.4.4 Counting of force cycles.....		23
8.4.5 Frequency.....		23
8.4.6 Temperature.....		23
8.4.7 Validity of the test.....		23
9 Chemical analysis		23

10	Measurement of the geometrical characteristics	24
10.1	Welded fabric.....	24
10.1.1	Test piece.....	24
10.1.2	Test equipment.....	24
10.1.3	Test procedure.....	24
10.2	Lattice girders.....	24
10.2.1	Test piece.....	24
10.2.2	Test equipment.....	24
10.2.3	Measuring procedure.....	24
11	Specialized tests	24
11.1	Tensile test at elevated temperature.....	24
11.1.1	General.....	24
11.1.2	Test piece.....	24
11.1.3	Test equipment.....	25
11.1.4	Test procedure.....	25
11.2	Tensile test at low temperature.....	25
11.2.1	General.....	25
11.2.2	Test piece.....	25
11.2.3	Test equipment.....	25
11.2.4	Test procedure.....	25
11.3	Cyclic inelastic load test.....	25
11.3.1	Principle of the test.....	25
11.3.2	Test piece.....	26
11.3.3	Test equipment.....	26
11.3.4	Test procedure.....	26
12	Test report	27
	Annex A (informative) Options for agreement between the parties involved	28
	Bibliography	29