

DIN EN 131-2:2017-04 (E)

Ladders - Part 2: Requirements, testing, marking (includes Amendment A2:2017)

Contents	Page
European foreword.....	3
Introduction	4
1 Scope.....	5
2 Normative references.....	5
3 Terms and definitions	6
4 Requirements.....	7
4.1 General.....	7
4.2 Materials.....	7
4.3 Design.....	12
4.4 Surface finish	12
4.5 Hinges (turning points).....	13
4.6 Opening restraints.....	13
4.7 Rungs/steps/platforms.....	13
4.8 Platform	14
4.9 $\square_{A2}$ Ladder feet and anti-skid devices $\square_{A2}$	14
4.10 Extending and sectional ladders.....	15
5 Testing.....	15
5.1 General.....	15
5.2 $\square_{A2}$ Strength test for all ladders $\square_{A2}$	15
5.3 Bending test of the stiles.....	18
5.4 Lateral deflection test of the ladder	19
5.5 Bottom stile ends test	20
5.6 Vertical load on rungs, steps and platforms.....	21
5.7 Torsion test of rungs and steps.....	22
5.8 Test of opening restraints and hinges of standing ladders.....	23
5.9 Test for ladder rung/step hooks of extending ladders and combination ladders	24
5.10 Kick-up test of the platform of standing ladders	25
5.11 Feet pull test.....	26
5.12 Test on hand-/kneerails	28
5.13 Maximum extension of ladder	29
5.14 3-part combination ladder in A-position test	30
5.15 $\square_{A2}$ Torsion test for standing ladders $\square_{A2}$	30
5.16 Test methods for plastic ladders	33
6 Marking and user instructions.....	51
7 Certification.....	51
Annex A (normative) Test sequence	52
Annex B (informative) A-deviations.....	55
Bibliography.....	58