

DIN EN 1147:2010-10 (E)

Portable ladders for fire service use

Contents		Page
Foreword		4
Introduction		5
1 Scope		6
2 Normative references		6
3 Terms and definitions		6
4 Categorization		8
5 Dimensions and total masses		9
5.1 Length		9
5.2 Width between stiles		9
5.3 Mass		9
6 Rungs		9
7 Extending ladder requirements		11
7.1 Force		11
7.2 Lines		11
7.3 Cables		11
7.4 Additional safety requirements		11
7.5 Pawls		11
8 Fittings		11
8.1 Hooks		11
8.2 Feet		12
8.3 Wheels		12
9 Stabilizing means		12
10 Poles		12
11 Materials and finishes		12
12 Marking		13
13 Performance requirements		14
13.1 Deflection - All ladders		14
13.2 Deflection - Compulsory pole		15
13.3 Other tests		15
14 General test parameters		15
Annex A (normative) Deflection test: applicable to all ladders not covered by Annex B except hook ladders (non-destructive)		17
Annex B (normative) Deflection test: applicable to 3-person compulsory pole ladder (non-destructive)		20

Annex C (normative) Rung torque test: all ladders (non-destructive)	23
Annex D (normative) Pole test (non-destructive)	24
Annex E (normative) Horizontal test: applicable to all ladders not covered by Annex F except hook ladders (destructive)	25
Annex F (normative) Horizontal test: applicable to 3-person compulsory pole ladder (destructive) ..	26
Annex G (normative) Pawl test: applicable to all extension ladders (destructive)	27
Annex H (normative) Rescue ladder rung test: applicable to all rescue ladders (destructive)	28
Annex I (normative) Access ladder rung test: applicable to all access ladders (destructive)	29
Annex J (normative) Hook rung and ladder integrity test: for tip-loaded hooks (destructive)	30
Annex K (normative) Hook rung and ladder integrity test: for mid-loaded hooks (destructive)	31
Annex L (normative) Foot side strength test: ground standing ladders (destructive)	32
Annex M (informative) Recommendations for test frequency, repair, servicing and design considerations	33
M.1 Inspection and maintenance	33
M.2 Non-destructive test schedule	33
M.3 Design	34
Annex N (informative) Information and recommendations for user safety	35
Annex O (informative) A-deviations	36
Bibliography	37