DIN EN 958:2017-05 (E)

Mountaineering equipment - Energy absorbing systems for use in klettersteig (via ferrata) climbing - Safety requirements an d test methods

Contents

Page

European foreword 3

1 Scope 4

2 Normative references 4

3 Terms and definitions 4

4 Safety requirements 6
4.1 Design 6
4.1.1 Construction 6
4.1.2 Connecting device 6
4.1.3 Connection to the safety line 6
4.1.4 Initial arrangement 6
4.1.5 Rest attachment point 6
4.2 Operation of the EAS 6
4.2.1 General 6
4.2.2 Force to initiate operation 7
4.2.3 Dynamic performance 7
4.2.4 Dynamic strength of the EAS under wet conditions 7
4.3 Static strength of the energy absorbing system 7
4.3.1 General 7
4.3.2 Static strength of the whole system 8
4.3.3 Breaking strength of the components of elasticated arms 8
4.3.4 Breaking strength of the textile components of non-elasticated arms and harness attachment point 8
4.3.5 Energy absorber initiation force 8
4.3.6 Breaking strength of the rest attachment point 8

5 Test methods 9
5.1 Design 9
5.1.1 General 9
5.1.2 Measurement of the distance between the two arm extremities 9
5.1.3 Measurement of the overall length of the EAS 9
5.2 Operation tests 9
5.2.1 General 9
5.2.2 Conditioning and test conditions for energy absorbing systems with textile components 9
5.2.3 Apparatus 9
5.2.4 Procedure 10
5.3 Strength test 12
5.3.1 Determination of static strength of the whole system 12
5.3.2 Fatigue test for elasticated arms 12
5.3.3 Breaking strength of the textile components of non-elasticated arms 13
5.3.4 Breaking test of the rest attachment point 13

6 Marking 14

7 Information supplied by the manufacturer 14

Annex A (informative) Standards on mountaineering equipment 16

Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 89/686/EEC aimed to be covered 18