

# DIN EN 958:2017-05 (E)

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

---

<b>Contents</b>		<b>Page</b>
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