

Contents

Page

European foreword.....	4
Introduction	5
1 Scope	6
2 Normative references.....	6
3 Terms and definitions	6
4 Requirements	9
4.1 General requirements for all Types	9
4.1.1 Anchor lines	9
4.1.2 Compatibility	9
4.1.3 Edge design.....	9
4.1.4 Corrosion resistance.....	9
4.1.5 Marking and information	9
4.2 Overview of the specific requirements for each type of rope adjustment devices	9
4.3 Specific requirements for Type A rope adjustment devices.....	10
4.3.1 Connecting elements.....	10
4.3.2 Free movement.....	10
4.3.3 Static strength	11
4.3.4 Dynamic performance.....	11
4.3.5 Dynamic strength and residual strength.....	11
4.4 Specific requirements for Type B rope adjustment devices.....	11
4.4.1 Free movement.....	11
4.4.2 Release prevention function	11
4.4.3 Minimum working performance	11
4.4.4 Dynamic strength and residual strength.....	12
4.5 Specific requirements for Type C rope adjustment devices	12
4.5.1 Hands-free locking element	12
4.5.2 Minimum working performance	12
4.5.3 Static strength	12
4.5.4 Dynamic strength and residual strength.....	12
4.5.5 Descent velocity and panic locking.....	12
4.5.6 Temperature rise	13
5 Test methods	13
5.1 Test apparatus.....	13
5.2 Conditioning and setup before testing	13
5.2.1 General conditioning	13
5.2.2 Conditioning to heat.....	13
5.2.3 Conditioning to wet.....	13
5.2.4 Conditioning to very cold	14
5.2.5 Conditioning to wet and cold	14
5.3 General tests	14
5.3.1 Test samples	14
5.3.2 Compatibility	14
5.3.3 Edge design.....	14
5.3.4 Corrosion resistance	15

5.4 Specific tests 15

5.4.1 Length of connecting elements 15

5.4.2 Movement test 15

5.4.3 Release prevention test for Type B rope adjustment devices 16

5.5 Static tests 17

5.5.1 Test samples 17

5.5.2 Minimum working performance test for Type B and Type C rope adjustment devices..... 17

5.5.3 Static strength test for Type A and Type C rope adjustment devices..... 18

5.6 Dynamic tests 19

5.6.1 Test samples 19

5.6.2 Dynamic performance for Type A rope adjustment devices..... 19

5.6.3 Dynamic strength and residual strength for Type A rope adjustment devices 20

5.6.4 Dynamic strength and residual strength for Type B and Type C rope adjustment devices 22

5.7 Descent test for Type C rope adjustment devices 25

5.7.1 General 25

5.7.2 Test samples 26

5.7.3 Test arrangement 26

5.7.4 Velocity, locking and temperature rise 26

6 Marking 27

7 Manufacturer’s instructions and information 28

Annex A (informative) List of useful information 29

A.1 General 29

A.2 Maintenance of rope adjustment devices within the user’s reach 29

A.3 Anticipation of emergency situations 29

A.4 Care when selecting anchor lines 29

Annex B (informative) Background and rationale about the changes between this document and EN 12841:2006..... 30

Annex C (informative) Significant changes between this document and EN 12841:2006 34

Annex ZA (informative) Relationship between this European Standard and the essential requirements of Regulation 2016/425 aimed to be covered 38

Bibliography 40