DIN EN 353-2:2024-11 (E)

Personal fall protection equipment - Part 2: Guided type fall arresters including a flexible anchor line

Contents

Page

European foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 7

4 Requirements 11
4.1 General 11
4.2 Materials and construction 11
4.2.1 Materials 11
4.2.2 Construction 11
4.3 Static strength 12
4.3.1 Energy dissipating element preloading 12
4.3.2 GTFA including the connection element and flexible anchor line 12
4.3.3 Flexible anchor line - man-made fibre ropes 12
4.4 Dynamic performance and function 12
4.4.1 General 12
4.4.2 Dynamic performance 13
4.4.3 Function 13
4.5 Dynamic strength and integrity 14
4.6 Dynamic performance - inclined and horizontal application 14
4.7 Dynamic strength - inclined and horizontal application 14
4.8 Corrosion resistance 15
4.9 Marking and information 15

5 Test methods 15
5.1 General examination of material and construction 15
5.1.1 Examination - GTFA including a flexible anchor line 15
5.1.2 Examination - connecting element 15
5.1.3 Function test - vertical application 15
5.1.4 Function test - inclined application 16
5.2 Static strength 17
5.2.1 Energy dissipating element preloading 17
5.2.2 GTFA including the connection element and flexible anchor line 17
5.2.3 Flexible anchor line - man-made fibre ropes 19
5.3 Dynamic performance and function tests 20
5.3.1 Apparatus 20
5.3.2 Method - dynamic performance 20
5.3.3 Method - wet condition function 21
5.3.4 Method - cold condition function 22
5.3.5 Method - minimum distance from flexible anchor line function 22
5.3.6 Method - override function 23
5.4 Dynamic strength and integrity test 25
5.4.1 Apparatus 25
5.4.2 Method 25
5.5 Dynamic tests for horizontal and inclined applications 27
5.5.1 Apparatus 27

5.5.2 Test sample 27
5.5.3 Method - dynamic performance 27
5.5.4 Method - dynamic strength and integrity 27
5.6 Corrosion resistance 31

6 Marking 32

7 Manufacturer's instructions and information 33

8 Packaging 34

Annex A (informative) Explanatory information on this edition of the standard Annex B (informative) Significant technical changes between this European Standard and the Annex ZA (informative) Relationship between this European Standard and the essential requirements of EU Regulation 2016/425 aimed to be covered 40

Bibliography 42