DIN EN 795:2012-10 (E)

Personal fall protection equipment - Anchor devices

Contents

Page

Foreword 5

Introduction 6

1 Scope 7

2 Normative references 7

3 Terms and definitions 7

4 Requirements 14
4.1 General 14
4.2 Materials 14
4.2.1 Metal parts 14
4.2.2 Rope and webbing 14
4.2.3 Connectors 15
4.3 Design and ergonomics 15
4.4 Specific requirements 15
4.4.1 Type A anchor devices 15
4.4.2 Type B anchor devices 15
4.4.3 Type C anchor devices 15
4.4.4 Type D anchor devices 16
4.4.5 Type E anchor devices 16
4.5 Marking and information 17

5 Test methods 17
5.1 General 17
5.2 Test arrangement and apparatus 18
5.2.1 Test lanyard and determination of free fall distance 18
5.2.2 Dynamic strength and integrity test apparatus for types A, B, C and D anchor devices 19
5.2.3 Static strength test apparatus 19
5.2.4 Dynamic performance test apparatus for type E anchor devices 19
5.3 Type A anchor devices 20
5.3.1 General 20
5.3.2 Deformation 20
5.3.3 Dynamic strength and integrity 20
5.3.4 Static strength 21
5.4 Type B anchor devices 21
5.4.1 General 21
5.4.2 Deformation 21
5.4.3 Dynamic strength and integrity 21
5.4.4 Static strength 24
5.5 Type C anchor devices 26
5.5.1 General 26
5.5.2 Deformation 27
5.5.3 Dynamic strength and integrity 27
5.5.4 Static strength 31
5.6 Type D anchor devices 31
5.6.1 General 31
5.6.2 Deformation 31
5.6.3 Dynamic strength and integrity 31
5.6.4 Static strength 33

5.7 Type E anchor devices 33
5.7.1 Deformation 33
5.7.2 Dynamic performance 33
5.7.3 Post arrest suspension 34
5.7.4 Static strength 34
5.8 Corrosion resistance 34

6 Marking 35

7 Information supplied by the manufacturer 35

Annex A (informative) Information on installation documentation and periodic examination 37

A.1 Information on installation to be supplied by the manufacturer 37
A.2 Guidance on documentation to be supplied after an installation 37
A.3 Guidance on periodic examination procedure 40

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 Directive 89/686/EEC 43

Bibliography 44

Figures Figure 1 -- Examples of anchor systems that include an anchor device 8

Figure 2 -- Examples of anchor systems that are not covered by this European Standard 9

Figure 3 -- Example of a type A anchor device with a structural anchor 11

Figure 4 -- Example of a type A anchor device with a fixing element 11

Figure 5 -- Examples of type B anchor devices 12

Figure 6 -- Example of a type C anchor device 13

Figure 7 -- Example of a type D anchor device 13

Figure 8 -- Example of a type E anchor device 13

Figure 9 -- Bowline knot 18

Figure 10 -- Test lanyard for dynamic strength and integrity tests and dynamic performance tests . 19

Figure 11 -- Example of a dynamic performance test apparatus for type E anchor devices 20

Figure 12 -- Dynamic test for type B anchor devices with legs (e.g. a tripod) and an anchor point(s) not on a leg 23

Figure 13 -- Dynamic test for type B anchor devices with legs (e.g. a tripod) and an anchor point on a leg 24

Figure 14 -- Static strength test for type B anchor device with legs (e.g. a tripod) and a central anchor point 25

Figure 15 -- Static strength test for type B anchor device with legs (e.g. a tripod) and an anchor point on a leg26 Figure 16 -- Example of a single-span type C anchor device test arrangement 28

Figure 17 -- Example of a multi-span type C anchor device test arrangement without a corner 30

Figure 18 -- Example of a multi-span type C anchor device test arrangement with a corner 30

Figure 19 -- Example of a type D anchor device test arrangement including a cantilever 32

Figure 20 -- Example of a type D anchor device test arrangement including a rigid anchor line joint or junction and a corner anchor 33

Figure A.1 -- Example of an installation plan 39

Figure A.2 -- Example of periodic examination procedure 40

Tables Table B.1 -- Significant technical changes 41

Table ZA.1 -- Correspondence between this European Standard and Directive 89/686/EEC 43