DIN EN 926-2:2022-02 (E)

Paragliding equipment - Paragliders - Part 2: Requirements and test methods for classifying flight safety characteristics (includes Amendment A1:2021)

Contents

Page

European foreword ... 4

1 Scope ... 5

2 Normative references ... 5

3 Terms and definitions ... 5

4 Requirements ... 9
4.1 Paraglider classes ... 9
4.2 Classification of flight characteristics ... 9
4.3 Failure ... 9
4.4 Flight characteristics ... 9
4.4.1 Inflation/take-off ... 9
4.4.2 Landing ... 10
4.4.3 Speeds in straight flight ... 11
4.4.4 Control movement ... 12
4.4.5 Pitch stability exiting accelerated flight ... 12
4.4.6 Pitch stability operating controls during accelerated flight ... 13
4.4.7 Roll stability and damping ... 14
4.4.8 Stability in gentle spirals ... 14
4.4.9 Behaviour exiting a fully developed spiral dive ... 14
4.4.10 Symmetric front collapse ... 15
4.4.11 Exiting deep stall (parachutal stall) ... 17
4.4.12 High angle of attack recovery ... 19
4.4.13 Recovery from a developed full stall ... 19
4.4.14 Asymmetric collapse ... 20
4.4.15 Directional control with a maintained asymmetric collapse ... 23
4.4.16 Trim speed spin tendency ... 23
4.4.17 Low speed spin tendency ... 24
4.4.18 Recovery from a developed spin ... 24
4.4.19 B-line stall ... 25
4.4.20 Big ears ... 26
4.4.21 Big ears in accelerated flight ... 28
4.4.22 Alternative means of directional control ... 29
4.4.23 Any other flight procedure and/or configuration described in the user's manual ... 30
4.4.24 Folding lines ... 31

5 Flight tests ... 31
5.1 General ... 31
5.2 Apparatus ... 31
5.2.1 Test pilot equipment ... 31
5.2.2 Ground equipment ... 32
5.3 Test specimen ... 32
5.3.1 Selection ... 32
5.3.2 Marking ... 32
5.3.3 Additional lines ... 33
5.3.4 Control extensions ... 34
5.4 Test conditions ... 34
5.5 Procedure ... 35

5.5.1 General **35**
5.5.2 Trimmers **35**
5.5.3 Other adjustable or removable devices **35**
5.5.4 Video documentation **35**
5.5.5 Radio documentation **36**
5.5.6 Harness dimensions **36**
5.5.7 Ballast **37**
5.5.8 Sitting position **37**
5.5.9 Controls in hand **37**
5.5.10 Wraps **37**
5.5.11 Timing when starting test measurements **37**
5.5.12 Timing when exiting stalled flight conditions **38**
5.5.13 Exiting developed spin rotation **38**
5.5.14 Pitch angles **38**
5.5.15 Keep course **38**
5.5.16 Twist **38**
5.5.17 Collapse on the opposite side **38**
5.5.18 Details of test manoeuvres to be carried out **38**

6 Test files **45**
6.1 Test file information **45**
6.2 Items accompanying the test files **46**

7 User's manual **46**

8 Manufacturing record **49**

9 Marking **49**

Annex A (normative) **Measuring suspension line lengths** **51**