

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