

DIN EN 1651:2022-02 (E)

Paragliding equipment - Harnesses - Safety requirements and strength tests (includes Amendment :2020)

Contents		Page
European foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Safety requirements	5
4.1	General	5
4.2	Strength requirements	6
4.2.1	Positive symmetric load applied to the paraglider riser attachment points	6
4.2.2	Positive asymmetric load applied to the paraglider riser attachment points	7
4.2.3	Positive symmetric load applied to the emergency parachute attachment points	7
4.2.4	Negative symmetric load applied to the emergency parachute attachment points	7
4.2.5	Negative symmetric load applied to the tow attachment points	7
4.2.6	Negative symmetric load applied to the paraglider riser attachment points	7
4.2.7	Upright position load	8
4.2.8	Emergency parachute connecting element	8
4.2.9	Anti falling-out system	8
4.2.10	!Static parachute extraction test for harnesses with integrated emergency parachute container(s)	8
4.3	Vertical impact pad test requirements	8
4.4	Emergency parachute deployment test requirements	8
5	Test methods	9
5.1	Principles	9
5.2	Strength tests	9
5.3	Vertical impact test	9
5.4	Apparatus	9
5.4.1	Apparatus for strength tests	9
5.4.2	Apparatus for vertical impact test	10
5.5	Procedure	12
5.5.1	Strength test methods	12
5.5.2	Vertical impact pad test	22
5.5.3	Emergency parachute deployment from integrated container	22
6	Test files	23
6.1	Test file information	23
6.2	Items accompanying the test file	23
7	User manual	23
8	Manufacturing record	24
8.1	Manufacturing record content	24
8.2	Listing of the material	25
9	Marking	25
Annex A (informative) !Example of manufacturer's attestation for emergency parachute deployment		27