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AirDesign GmbH

test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Manufacturer



Certification number PG\_2517.2025

## Flight test report: EN 926-2:2013+A1:2021\* and NfL 2-565-20

	Manufacturer	Airbesign Gillbri		Certification num	DEI	PG_2317.2023		
	Address Rhombergstraße 9, 4 6067 Absam		Stock	Flight test		29.01.2025		
		Austria						
	Glider model	HERO XPED S		Classification		D		
	Serial number XD59S1KPP2450016		Р	Representative		None		
	Trimmer	no		Place of test		Villeneuve		
	Folding lines used	yes						
	Test pilot	-		Victor Chinen Cirilli		Alexandre Jofresa		
	Harness		Advance Thun AG Success 4 M			Advance Thun AG Success 4 M		
	Harness to risers di	stance [cm]	43			43		
	Distance between ri		44			44		
	[							
	Total weight in fligh	t [kg]	84			98		
	1. Inflation/Take-off		С					
	Rising behaviour		Overshoots, shall be slicollapse	owed down to avoid a front	С	Easy rising, some pilot correction is required	В	
	Special take off technique	required	No		Α	No	Α	
	2. Landing		A					
	Special landing technique	required	No		Α	No	Α	
	3. Speed in straight flight		В					
	Trim speed more than 30 k	km/h	Yes		Α	Yes	Α	
	Speed range using the controls larger than 10 km/h		Yes		Α	Yes	Α	
	Minimum speed		Less than 25 km/h		Α	25 km/h to 30 km/h	В	
	4. Control movement		С					
	Max. weight in flight up to	o 80 ka						
	Symmetric control pressure		not available		0	not available	0	
Se Tr Fc Te Hi Hi Di Tc 1. Ri Sr Sr Mi 4. Mi Sy		Max. weight in flight 80 kg to 100 kg						
	Symmetric control pressure	e / travel	Increasing / 45 cm to 6	0 cm	С	Increasing / 45 cm to 60 cm	С	
	Max. weight in flight grea	_	والموازم بمورد		0		0	
	Symmetric control pressure	e / travel	not available		0	not available	0	
	5. Pitch stability exiting a	accelerated flight	Α					
	Dive forward angle on exit		Dive forward less than	30°	Α	Dive forward less than 30°	Α	
	Callanaa aaauma		No		Α	No	٨	
	Collapse occurs				A	NO	Α	
6. Pitch stability operating controls during accelerated flight		Α						
	Collapse occurs		No		Α	No	Α	
	7. Roll stability and damp	ping	Α					
	Oscillations		Reducing		Α	Reducing	Α	
	O Otabilita in a di		^					
8. Stability in gentle spirals  Tondoney to return to straight flight		A Spontaneous exit		Α	Spontaneous exit	Α		
Tendency to return to straight flight		Sportanious exit		А	ороналючи оли	^		

9. Behaviour exiting a fully developed spiral dive	D			
Initial response of glider (first 180°)	No immediate reaction	В	No immediate reaction	В
Tendency to return to straight flight	Turn remains constant (g force constant, rate of turn constant)	D	Spontaneous exit (g force decreasing, rate of turn decreasing)	A
Turn angle to recover normal flight	With pilot action	D	720° to 1 080°, spontaneous recovery	В
10. Symmetric front collapse Approximately 30 % chord	D			
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in 3 s to 5 s	В
Dive forward angle on exit Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	Yes (Only if asked)	D	Yes (Only if asked)	D
At least 50% chord	Dagking book loss than 45°	٨	Dealing heat loss than 45°	٨
Entry	Rocking back less than 45°  Spontaneous in less than 3 s	A	Ç	A B
Recovery	·	A		
Dive forward angle on exit / Change of course	Dive forward 30° to 60° / Keeping course  No	В	Dive forward 30° to 60° / Keeping course  No	B A
Cascade occurs		D	Yes (Only if asked)	D
Folding lines used	Yes (Only if asked)	D	res (Only II askeu)	D
With accelerator	Post inches and assessment AFO	0	Deal to a least less than 450	•
Entry	Rocking back greater than 45°	С	•	Α
Recovery	Spontaneous in less than 3 s	А	Spontaneous in 3 s to 5 s	В
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 30° to 60° / Keeping course	В
Cascade occurs	No	Α	No	Α
Folding lines used	Yes (Only if asked)	D	Yes (Only if asked)	D
11. Exiting deep stall (parachutal stall)	A Yes	٨	Yes	۸
Deep stall achieved	Spontaneous in less than 3 s	A		A A
Recovery				
Dive forward angle on exit	Dive forward 0° to 30°		Dive forward 0° to 30°	Α
Change of course	Changing course less than 45°	А	Changing course less than 45°	Α
Cascade occurs	No	Α	No	Α
12. High angle of attack recovery Recovery	A Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	Α
Cascade occurs	No No		No .	A
13. Recovery from a developed full stall	C			
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Collapse	No collapse	Α	No collapse	Α
Cascade occurs (other than collapses)	No	Α	No	Α

Rocking back	Greater than 45°	С	Less than 45°	Α
Line tension	Most lines tight	Α	Most lines tight	Α
14. Asymmetric collapse Small asymmetric collapse	D			
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15°	Α	Less than 90° / Dive or roll angle 15° to 45°	Α
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	Yes (Only if asked)	D	Yes (Only if asked)	D
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 15° to 45°	В	90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	Yes (Only if asked)	D	Yes (Only if asked)	D
Small asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	Α	Less than 90° / Dive or roll angle 15° to 45°	Α
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	Yes (Only if asked)	D	Yes (Only if asked)	D
Large asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 15° to 45°	В	90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α

A   Parameter	Folding lines used	Yes (Only if asked)	D	Yes (Only if asked)	D
Able to keep course  Yes  A Yes  A Yes  A Yes  A Now the collapsed side possible in 10 a  Amount of control range between turn and stall or spin  More then 50 % of the symmetric control travel  A Now then 50 % of the symmetric control travel  A Subscripting in less than 50 % of the symmetric control travel  A Subscripting in less		A			
Amount of control range between turn and stall or spin  16. Trim speed spin tendency		Yes	Α	Yes	Α
16. Trim speed spin tendency Spin occurs No No A	180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	Α
Spin occurs  No A No A No A No A  17. Low speed spin tendency Spin coccus No A No A No A No A  18. Recovery from a developed spin A Spin rotation angle after release Dops spinning in less than 90° A Stops spinning in less than 90° A No A No A  19. B-line stall O Change of course before release not available O Change of course before release not available O Change of course before release not available O Change of course before release No available O No not avail	Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	Α	More than 50 % of the symmetric control travel	Α
The content of the	16. Trim speed spin tendency	A			
Spin occurs No A No A No A  18. Recovery from a developed spin A Spin rotation angle after release Stops spinning in less than 90" A Stops spinning in less than 90" A  19. B-line stall O Change of course before release not available 0 not	Spin occurs	No	Α	No	Α
Spin rotation angle after release  No No A No A  19. B-line stall  Change of course before release  not available  not available  of not available  not available  not available  of not availab			А	No	Α
Spin rotation angle after release  No No A No A  19. B-line stall  Change of course before release  not available  not available  of not available  not available  not available  of not availab	18 Recovery from a developed spin	A			
Change of course before release not available 0 not available			Α	Stops spinning in less than 90°	Α
Change of course before release not available 0 not available	Cascade occurs	No	Α	No	Α
Behaviour before release not available 0 not a	19. B-line stall				
Recovery not available 0 not a	Change of course before release	not available	0	not available	0
Dive forward angle on exit not available 0 not	Behaviour before release	not available	0	not available	0
Cascade occurs  not available  not available  0 not available	Recovery	not available	0	not available	0
20. Big ears Entry procedure Dedicated controls A Dedicated controls A Stable flight A Dive forward uning big ears Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A Dive forward 0° to 30° A Dedicated controls A Dive forward 0° to 30° A Dive forward 0° to 30° A Dedicated controls A Dedicated controls A Stable flight A Stab	Dive forward angle on exit	not available	0	not available	0
Entry procedure  Dedicated controls  A Dedicated controls  A Stable flight  A Dive forward 0° to 30°  A Dedicated controls  B Dive forward angle on exit  Dive forward 0° to 30°  Dive forward angle on exit  Dive forward 0° to 30°  A Dive forward 0° to 30°  A Dedicated controls  A Dive forward 0° to 30°  A Dive forward 0	Cascade occurs	not available	0	not available	0
Behaviour during big ears  Stable flight  A Stable flight  A Stable flight  Recovery  Spontaneous in less than 3 s  A Spontaneous in 3 s to 5 s  B  Dive forward angle on exit  Dive forward 0° to 30°  A Dive forward 0° to 30°  A Dive forward 0° to 30°  A Dedicated controls  A Dedicated controls  A Dedicated controls  A Stable flight  A Stable fl	20. Big ears	В			
Recovery Spontaneous in less than 3 s A Spontaneous in 3 s to 5 s B  Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A  21. Big ears in accelerated flight A Entry procedure Dedicated controls A Dedicated controls A  Behaviour during big ears Stable flight A Recovery Spontaneous in less than 3 s A Spontaneous in 3 s to 5 s A  Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A  Behaviour immediately after releasing the accelerator while maintaining big ears  22. Alternative means of directional control A  Stall or spin occurs No A No A No A  23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described not available 0	Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Dive forward angle on exit  Dive forward 0° to 30°  A Dedicated controls  A Dedicated controls  A Dedicated controls  A Dedicated controls  A Stable flight  A Stable flight  A Stable flight  A Stable flight  A Dive forward angle on exit  Dive forward 0° to 30°  A Dive forward 0	Behaviour during big ears	Stable flight	Α	Stable flight	Α
21. Big ears in accelerated flight Entry procedure Dedicated controls A Behaviour during big ears Stable flight A Recovery Spontaneous in less than 3 s A Spontaneous in 3 s to 5 s A Dive forward angle on exit Dive forward 0° to 30° A Behaviour immediately after releasing the accelerator while maintaining big ears  22. Alternative means of directional control A 180° turn achievable in 20 s Yes A Stall or spin occurs No A No A No A C C C C C C C C C C C C C C C C C C	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in 3 s to 5 s	В
Entry procedure  Dedicated controls  A Dedicated controls  A Stable flight  A Dive forward on to 30 t	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Behaviour during big ears  Stable flight  A Stable flight  A Stable flight  A Spontaneous in less than 3 s  A Spontaneous in 3 s to 5 s  A Dive forward angle on exit  Dive forward or to 30 A  Behaviour immediately after releasing the accelerator while maintaining big ears  22. Alternative means of directional control  180° turn achievable in 20 s  Yes  A Yes  A Stable flight  A Yes  A Yes  A Yes  A No  A No  A Poocedure suitable for novice pilots  A No available  O not available  O not available  O not available	21. Big ears in accelerated flight	Α			
Recovery  Spontaneous in less than 3 s  A Spontaneous in 3 s to 5 s  A  Dive forward angle on exit  Dive forward 0° to 30°  A Dive forward 0° to 30°  A Behaviour immediately after releasing the accelerator while maintaining big ears  22. Alternative means of directional control  A  180° turn achievable in 20 s  Yes  A Yes  A Stable flight  A Yes  A  Stall or spin occurs  No  A No  A  23. Any other flight procedure and/or configuration described in the user's manual  Procedure works as described  not available  0 not available  0 not available  0 not available  0	Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Dive forward angle on exit  Dive forward 0° to 30°  A Dive forward 0° to 30°  A Dive forward 0° to 30°  A Behaviour immediately after releasing the accelerator while maintaining big ears  22. Alternative means of directional control  180° turn achievable in 20 s  Yes  A Yes  A Stable flight  A Stable flight  A Stable flight  A Yes  A Pes  A Pes  A Pes  Procedure suitable procedure and/or configuration described in the user's manual  Procedure works as described  Not available  O not available  O not available  O not available  O	Behaviour during big ears	Stable flight	Α	Stable flight	Α
Behaviour immediately after releasing the accelerator while maintaining big ears  22. Alternative means of directional control 180° turn achievable in 20 s  No A  Stall or spin occurs  No A  No A  No A  23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described  not available  not available  0 not available  0 not available  0 not available  0	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in 3 s to 5 s	Α
while maintaining big ears  22. Alternative means of directional control  180° turn achievable in 20 s  Yes  A  Yes  A  Stall or spin occurs  No  No  A  No  A  No  A  23. Any other flight procedure and/or configuration described in the user's manual  Procedure works as described  not available  o  not available	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
180° turn achievable in 20 s  Yes  A Yes  A Stall or spin occurs  No  No  A No  A  No  A  23. Any other flight procedure and/or configuration described in the user's manual  Procedure works as described  not available  0		Stable flight	Α	Stable flight	Α
Stall or spin occurs  No A No A  23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described  not available  0 not available 0 not available 0 not available 0	22. Alternative means of directional control				
23. Any other flight procedure and/or configuration described in the user's manual  Procedure works as described not available 0 not available 0 not available 0 not available 0	180° turn achievable in 20 s	Yes	Α	Yes	Α
configuration described in the user's manual       Procedure works as described     not available     0 not available     0       Procedure suitable for novice pilots     not available     0 not available     0	Stall or spin occurs	No	Α	No	Α
Procedure suitable for novice pilots not available 0 not available 0	23. Any other flight procedure and/or configuration described in the user's manual	0			
	Procedure works as described	not available	0	not available	0
Cascade occurs not available 0 not available 0	Procedure suitable for novice pilots	not available	0	not available	0
	Cascade occurs	not available	0	not available	0