## AIR TURQUOISE SA | PARA-TEST.COM

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test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



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

Manufacturer Address	Flow Paragliders 26 kalmia Court 4221 QLD Elanora Australia		Certification number Flight test	er	PG_2112.2023 24.05.2023	
Glider model Serial number Trimmer Folding lines used	XCRacer2 L X2L221208 no yes		Classification Representative Place of test		<b>D</b> None Villeneuve	
Test pilot Harness Harness to risers distance (cm) Distance between risers (cm) Total weight in flight (kg)		Claude Thurn Advance Thur 43 48 110	heer n AG Success 4 M		Alexandre Jofresa Dudek Zero Gravity M 43 48 125	
1. Inflation/Take-off Rising behaviour		C Overshoots, shall avoid a front colla	be slowed down to	С	Overshoots, shall be slowed down to avoid a front collapse	С
Special take off technique	Special take off technique required		No No		No	Α
2. Landing Special landing technique	ne required	A No		Α	No	Α
3. Speed in straight flig Trim speed more than 3		<b>B</b> Yes		Α	Yes	Α
Speed range using the controls larger than 10 km/h		Yes		Α	Yes	Α
Minimum speed		25 km/h to 30 km	/h	В	25 km/h to 30 km/h	В
4. Control movement  Max. weight in flight up  Symmetric control press		C not available		0	not available	
	ure / travel	not available		0		0
Max. weight in flight 80 Symmetric control press	) kg to 100 kg	not available		0	not available	0
	0 kg to 100 kg ure / travel reater than 100 kg	not available	nstant / 50 cm to 65 cm	0	not available  Increasing / 50 cm to 65 cm	
Symmetric control press  Max. weight in flight gr	O kg to 100 kg ure / travel reater than 100 kg ure / travel g accelerated flight	not available		0		0
Symmetric control press  Max. weight in flight gr Symmetric control press  5. Pitch stability exiting	O kg to 100 kg ure / travel reater than 100 kg ure / travel g accelerated flight	not available  Approximately co		0 C	Increasing / 50 cm to 65 cm  Dive forward less than 30°	0 C
Symmetric control press  Max. weight in flight gr Symmetric control press  5. Pitch stability exiting Dive forward angle on ex	O kg to 100 kg ure / travel reater than 100 kg ure / travel g accelerated flight xit	not available  Approximately co		0 C	Increasing / 50 cm to 65 cm  Dive forward less than 30°	0 C
Symmetric control press  Max. weight in flight gr Symmetric control press  5. Pitch stability exiting Dive forward angle on ex  Collapse occurs  6. Pitch stability operataccelerated flight	o kg to 100 kg ure / travel reater than 100 kg ure / travel g accelerated flight xit ting controls during	not available  Approximately co  A  Dive forward less  No  A		0 C A A	Increasing / 50 cm to 65 cm  Dive forward less than 30°  No	0 C A A

. Behaviour exiting a fully developed spiral dive	С			
nitial response of glider (first 180°)	No immediate reaction	В	No immediate reaction	
endency to return to straight flight	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α	Spontaneous exit (g force decreasing, rate of turn decreasing)	
urn angle to recover normal flight	1080° to 1440°, spontaneous recovery	С	720° to 1 080°, spontaneous recovery	
0. Symmetric front collapse approximately 30 % chord	D			
intry	Rocking back less than 45°	Α	Rocking back less than 45°	
Recovery	Recovery through pilot action in less than a further 3 s	D	Recovery through pilot action in less than a further 3 s	
live forward angle on exit Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	
ascade occurs	No	Α	No	
olding lines used	Yes (Only if asked)	D	Yes (Only if asked)	
t least 50% chord ntry	Rocking back less than 45°	Α	Rocking back less than 45°	
ecovery	Recovery through pilot action in less than a further 3 s	D	Recovery through pilot action in less than a further 3 s	
ive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	
ascade occurs	No	Α	No	
olding lines used	Yes (Only if asked)	D	Yes (Only if asked)	
/ith accelerator				
intry	Rocking back less than 45°	Α	Rocking back less than 45°	
ecovery	Recovery through pilot action in less than a further 3 s	D	Spontaneous in 3 s to 5 s	
ive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	
ascade occurs	No	Α	No	
olding lines used	Yes (Only if asked)	D	Yes (Only if asked)	
Exiting deep stall (parachutal stall)  eep stall achieved	<b>D</b> Yes	Α	Yes	
ecovery	Recovery through pilot action in less than a further 5 s	D	Spontaneous in 3 s to 5 s	
ive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	
hange of course	Changing course less than 45°	Α	Changing course 45° or more	
Sascade occurs	No	Α	No	
2. High angle of attack recovery recovery	<b>D</b> Recovery through pilot action in less than a further 3 s	D	Recovery through pilot action in less than a further 3 s	
Cascade occurs	No	Α	No	
3. Recovery from a developed full stall ive forward angle on exit	C Dive forward 0° to 30°	Α	Dive forward 0° to 30°	
ollapse	No collapse	Α	No collapse	
ascade occurs (other than collapses)	No	Α	No	

Rocking back	Greater than 45°	С	Less than 45°	Α
Line tension	Most lines tight	Α	Most lines tight	Α
14. Asymmetric collapse	D			
Small asymmetric collapse				
Change of course until re-inflation / Maximum	Less than 90° / Dive or roll angle 15° to 45°	Α	Less than 90° / Dive or roll angle 15° to 45°	Α
dive forward or roll angle Re-inflation behaviour	Inflates in less than 3 s from start of pilot	С	Inflates in less than 3 s from start of pilot	С
Total change of course	action Less than 360°	Α	action 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	Less than 90° / Dive or roll angle 15° to 45°	Α
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	С	Inflates in less than 3 s from start of pilot action	С
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	90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	С	Inflates in less than 3 s from start of pilot action	С
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	Inflates in less than 3 s from start of pilot action	С	Inflates in less than 3 s from start of pilot action	С
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
15. Directional control with a maintained asymmetric collapse	A			
Able to keep course	Yes	Α	Yes	Α
180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	Α
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
16. Trim speed spin tendency	A No	Α	No	Α
Spin occurs		٠,	110	,,
17. Low speed spin tendency Spin occurs	A No	Α	No	Α
18. Recovery from a developed spin	D Stops spinning in 180° to 360°	D	Stops spinning in 180° to 360°	D
Spin rotation angle after release				
Cascade occurs	No	Α	No	Α
19. B-line stall	onot available	0	not available	0
Change of course before release	not available	0	not available	0
Behaviour before release		U		
Recovery	not available	0	not available	0
Dive forward angle on exit	not available	0	not available	0
Cascade occurs	not available	0	not available	0
20. Big ears Entry procedure	A Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
21. Big ears in accelerated flight	A Dedicated controls	Α	Dedicated controls	Α
Entry procedure	Stable flight	Α	Stable flight	Α
Behaviour during big ears				
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Α	Stable flight	Α
22. Alternative means of directional control 180° turn achievable in 20 s	A Yes	Α	Yes	Α
	No	Α	No	Α
Stall or spin occurs	110	^	110	Λ.
23. Any other flight procedure and/or configuration described in the user's manual	Α			
Procedure works as described	Yes	Α	Yes	Α
Procedure suitable for novice pilots	Yes	Α	Yes	Α
Cascade occurs	No	Α	No	Α

24. Comments of test pilot	

\*This standard is NOT covered by accreditation D-IS-19457-01