## AIR TURQUOISE SA | PARA-TEST.COM

Route du Pré-au-Comte 8 🔺 CH-1844 Villeneuve 🔺 +41 (0)21 965 65 65

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



## Flight test report: EN 926-2:2013 & LTF 91/09

Manufacturer Advance Thun AG Certification number PG_1693.2020	
Address Uttigenstrasse 87 Flight test 27.10.2020 3600 Thun Switzerland	
Glider model Pi3 27 Classification A	
Serial number 85011 Representative Michi Maurer	
Trimmer no Place of test Villeneuve	
Folding lines used no	
Test pilot Claude Thurnheer Alain Zoller	
Harness Advance - Success 4 M Advance - Succes	ss 4 L
Harness to risers distance (cm) 44 44	
Distance between risers (cm) 44 48	
• •	
Total weight in flight (kg) 92 115	
1. Inflation/Take-off  A  Smooth copy and constant riging  A Smooth copy and	constant rising
Rising behaviour Smooth, easy and constant rising A Smooth, easy and	
Special take off technique required No A No  2. Landing A	Α
Special landing technique required  No  A  No	А
3. Speed in straight flight  A	A
Trim speed more than 30 km/h  Yes  A Yes	А
Speed range using the controls larger than 10 km/h  Yes  A Yes	A
Minimum speed Less than 25 km/h A Less than 25 km/h	A
4. Control movement A	, ,
Max. weight in flight up to 80 kg	
Symmetric control pressure / travel not available 0 not available	0
Max. weight in flight 80 kg to 100 kg	
Symmetric control pressure / travel Increasing / greater than 60 cm A not available	0
Max. weight in flight greater than 100 kg	
Symmetric control pressure / travel not available 0 Increasing / greate	r than 65 cm A
5. Pitch stability exiting accelerated flight A	
Dive forward less than 30° A Dive forward less than 30°	han 30° A
Collapse occurs No A No	Α
6. Pitch stability operating controls during accelerated A flight	
Collapse occurs No A No	Α
7. Roll stability and damping A	
	٨
Oscillations Reducing A Reducing	Α
8. Stability in gentle spirals A	A
8. Stability in gentle spirals A Tendency to return to straight flight Spontaneous exit A Spontaneous exit	A
8. Stability in gentle spirals  Tendency to return to straight flight  Spontaneous exit  A Spontaneous exit  9. Behaviour exiting a fully developed spiral dive  A	А
8. Stability in gentle spirals  Tendency to return to straight flight  Spontaneous exit  A Spontaneous exit  9. Behaviour exiting a fully developed spiral dive Initial response of glider (first 180°)  Immediate reduction of rate of turn  A Immediate reduction	A on of rate of turn A
8. Stability in gentle spirals  Tendency to return to straight flight  Spontaneous exit  A Spontaneous exit  9. Behaviour exiting a fully developed spiral dive  A	A on of rate of turn A g force A
8. Stability in gentle spirals  Tendency to return to straight flight  9. Behaviour exiting a fully developed spiral dive Initial response of glider (first 180°)  Tendency to return to straight flight  A Immediate reduction of rate of turn  A Immediate reduction of rate of turn  Spontaneous exit (g force  A Spontaneous exit (g	on of rate of turn A g force A turn decreasing)
8. Stability in gentle spirals  Tendency to return to straight flight  9. Behaviour exiting a fully developed spiral dive Initial response of glider (first 180°)  Tendency to return to straight flight  Spontaneous exit  A Spontaneous exit  A Immediate reduction of rate of turn  Spontaneous exit (g force decreasing, rate of turn decreasing)  Turn angle to recover normal flight  Less than 720°, spontaneous  A Less than 720°, sp	on of rate of turn A g force A turn decreasing)
8. Stability in gentle spirals  Tendency to return to straight flight  9. Behaviour exiting a fully developed spiral dive Initial response of glider (first 180°)  Tendency to return to straight flight  Spontaneous exit (g force decreasing, rate of turn decreasing)  Turn angle to recover normal flight  A Spontaneous exit (g force decreasing, rate of turn decreasing)  Less than 720°, spontaneous recovery  A Less than 720°, spontaneous recovery	on of rate of turn A g force A turn decreasing)
8. Stability in gentle spirals  Tendency to return to straight flight  9. Behaviour exiting a fully developed spiral dive Initial response of glider (first 180°)  Tendency to return to straight flight  Spontaneous exit (g force decreasing, rate of turn decreasing)  Turn angle to recover normal flight  Less than 720°, spontaneous recovery  A Spontaneous exit (g force decreasing, rate of turn decreasing)  A Less than 720°, spontaneous recovery  A Less than 720°, spontaneous recovery	on of rate of turn A g force A turn decreasing) ontaneous A

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	No		No	
At least 50% chord				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
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	No		No	
With accelerator				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
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	No		No	
11. Exiting deep stall (parachutal stall)	A			
Deep stall achieved	No	Α	Yes	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
Change of course	Changing course less than 45°	Α	Changing course less than 45°	Α
Cascade occurs	No	Α	No	Α
12. High angle of attack recovery	A		140	
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Cascade occurs	No	Α	No	Α
13. Recovery from a developed full stall	A	- 1		- 1
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
	Less than 45°	A	Less than 45°	
Rocking back Line tension	Most lines tight		Most lines tight	A A
	A	А	wost lines tight	A
14. Asymmetric collapse	A			
Small asymmetric collapse	Loop then 00° / Diverger and paralle	^	Lacathan 00° / Diva ar rall anala	^
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15°	A	Less than 90° / Dive or roll angle 0° to 15°	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
Total change of course	Less than 360°	A	Less than 360°	A
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	No		No	
Large asymmetric collapse				
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	No		No	
Small asymmetric collapse with fully activated accelerator				
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 0° to 15°	Α
Change of course until re-inflation / Maximum dive forward or		A A		A A

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	No		No	
Large 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	No		No	
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			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency	A			
Spin occurs	No	Α	No	Α
18. Recovery from a developed spin	A			
Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
Cascade occurs	No	Α	No	Α
19. B-line stall	Α			
Change of course before release	Changing course less than 45°	Α	Changing course less than 45°	Α
Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	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
Cascade occurs	No	Α	No	Α
20. Big ears	Α			
Entry procedure	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	Α			
Entry procedure	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
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Α	Stable flight	Α
22. Alternative means of directional control	A			
180° turn achievable in 20 s	Yes	Α	Yes	Α
Stall or spin occurs	No	Α	No	Α
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
Procedure suitable for novice pilots	not available	0	not available	0
Cascade occurs	not available	0	not available	0

24. Comments of test pilot

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Manufacturer	Advance Thun AG	Certification number	F	PG_1693.2020	
Address	Uttigenstrasse 87	Flight test	2	27.10.2020	
	3600 Thun				
	Switzerland				
Glider model	Pi3 27	Classification	E	3	
Serial number	85011	Representative	١	None	
Trimmer	no	Place of test		/illeneuve	
-	-	ridec or test	•	, meneuve	
Folding lines used	no				
Test pilot		Claude Thurnheer	4	Anselm Rauh	
Harness		Advance - Success 4 M		Advance - Success 4 L	
	istones (sm)				
Harness to risers d	, ,	44		14	
Distance between r	` '	44		18	
Total weight in fligh	nt (kg)	92	1	25	
1. Inflation/Take-off		A			
			٨	Crocath page and constant vising	۸
Rising behaviour	roquired	Smooth, easy and constant rising	Α	Smooth, easy and constant rising No	A
Special take off technique  2. Landing	required	No A	Α	NO	Α
Special landing technique	roquired	No No	۸	No	۸
3. Speed in straight fligh	·	A	A	NO	Α
Trim speed more than 30		Yes	Α	Yes	Α
Speed range using the co		Yes	Α	Yes	A
Minimum speed	illiois larger than 10 km/n	Less than 25 km/h	Α	Less than 25 km/h	A
4. Control movement		A		EGG Han 25 Kili/il	
Max. weight in flight up	to 80 ka				
Symmetric control pressur		not available	0	not available	0
Max. weight in flight 80 I			-		_
Symmetric control pressur	-	Increasing / greater than 60 cm	Α	not available	0
Max. weight in flight gre		5 5			
Symmetric control pressur	=	not available	0	Increasing / greater than 65 cm	Α
5. Pitch stability exiting		Α		, i	
Dive forward angle on exit		Dive forward less than 30°	Α	Dive forward less than 30°	Α
Collapse occurs		No	Α	No	Α
	ng controls during accelerated	Α			
flight					
Collapse occurs		No	Α	No	Α
7. Roll stability and dam	ping	<b>A</b>		5	
Oscillations		Reducing	Α	Reducing	Α
8. Stability in gentle spir		A Consistencia suit	۸	Constantant suit	^
Tendency to return to stra		Spontaneous exit	Α	Spontaneous exit	Α
	Illy developed spiral dive	A	۸	Immediate reduction of rate of turn	۸
Initial response of glider (f		Immediate reduction of rate of turn Spontaneous exit (g force	Α	Spontaneous exit (g force	A A
Tendency to return to stra	iigrit iiigrit	decreasing, rate of turn decreasing)	Α	decreasing, rate of turn decreasing)	
Turn angle to recover nor	mal flight	Less than 720°, spontaneous	Α	Less than 720°, spontaneous	Α
		recovery		recovery	
10. Symmetric front coll	•	Α			
Approximately 30 % cho	ord				
Entry		Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery		Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit	t 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
343044C 000413			77	110	А

Folding lines used	No		No	
At least 50% chord				_
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
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	No		No	
With accelerator				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
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	No		No	
11. Exiting deep stall (parachutal stall)	A			
Deep stall achieved	No	Α	Yes	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
Change of course	Changing course less than 45°	Α	Changing course less than 45°	Α
Cascade occurs	No	Α	No	Α
12. High angle of attack recovery	Α			
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Cascade occurs	No .	Α	No	Α
13. Recovery from a developed full stall	В			
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 30° to 60°	В
Collapse	No collapse	Α	No collapse	A
Cascade occurs (other than collapses)	No	Α	No	Α
Rocking back	Less than 45°	Α	Less than 45°	Α
Line tension	Most lines tight	Α	Most lines tight	Α
14. Asymmetric collapse	B	,,	woot into tight	, ,
Small asymmetric collapse	2			
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 0° to 15°	Α
Re-inflation behaviour	Spontaneous re-inflation	Α		Α
	•		•	
Total change of course	Less than 360°	A A	Less than 360°	A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	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	No		No	
Large asymmetric collapse				
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	No	-	No	•
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

Total account	Nie		NI-	
Twist occurs  Cascade occurs	No No	A	No	Α
	No No	Α	No	Α
Folding lines used			No	
Large asymmetric collapse with fully activated accelerato 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	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)	A
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
15. Directional control with a maintained asymmetric collapse	Α			
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	Α			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency	A			
Spin occurs	No	Α	No	Α
18. Recovery from a developed spin	Α			
Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
Cascade occurs	No	Α	No	Α
19. B-line stall	A			
Change of course before release	Changing course less than 45°	Α	Changing course less than 45°	Α
Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	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
Cascade occurs	No	Α	No	Α
20. Big ears	Α			
Entry procedure	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	Α			
Entry procedure	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
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Α	Stable flight	Α
22. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	Α	Yes	Α
Stall or spin occurs	No	Α	No	Α
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
Procedure suitable for novice pilots	not available	0	not available	0
Cascade occurs	not available	0	not available	0
04 0				

24. Comments of test pilot