

Flight test report: EN 926-2:2013

Address	ADVANCE Thun AG Uttigenstrasse 87	Certification number Date of flight test		PG_0982.2015 21. 09. 2015	
	3600 Thun Switzerland				
Glider model	Epsilon 8 25	Classification		В	
	63928	Representative		Kari Eisenhut	
_ .	no	Place of test		Villeneuve	
				villeneuve	
Test pilot		Dupont Philippe		Bourdilloud Elie	
Harness		Supair - Access M		Advance - Success M	
Harness to risers dist	tance (cm)	42		43	
Distance between ris		40		44	
	· · ·				
Total weight in flight	(Kg)	70		90	
1. Inflation/Take-off		Α			
Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
Special take off technique re	equired	No	А	No	А
2. Landing		Α			
Special landing technique re	equired	No	Α	No	A
3. Speed in straight flight		Α	_		
Trim speed more than 30 km		Yes	A	Yes	A
Speed range using the contr	rols 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		Α			
Max. weight in flight up to	80 kg				
Symmetric control pressure		Increasing / greater than 55 cm	A	not available	0
Max. weight in flight 80 kg	to 100 kg				
Symmetric control pressure	/ travel	not available	0	Increasing / greater than 60 cm	A
Max. weight in flight greate	_				
Symmetric control pressure		not available	0	not available	0
5. Pitch stability exiting ac	celerated flight	Α			
Dive forward angle on exit		Dive forward less than 30°	Α	Dive forward less than 30°	A
Collapse occurs		No	Α	No	A
flight	controls during accelerated	Α			
Collapse occurs		No	Α	No	A
7. Roll stability and dampin	ng	A		_ · · ·	
Oscillations		Reducing	A	Reducing	A
8. Stability in gentle spirals		A Spontonogua avit	^	Spontonogua ovit	٨
Tendency to return to straigh	-	Spontaneous exit	A	Spontaneous exit	A
9. Behaviour exiting a fully		B No immediate reaction	D	Immediate reduction of rate of turn	٨
Initial response of glider (firs Tendency to return to straight		Spontaneous exit (g force	B A	Spontaneous exit (g force	A A
rendency to return to straigr	it ingrit	decreasing, rate of turn decreasing)	A	decreasing, rate of turn decreasing)	A
Turn angle to recover norma	al flight	720° to 1 080°, spontaneous recovery	В	Less than 720°, spontaneous recovery	А

10. Symmetric front collapse

Α

Approximately 30 % chord				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping course	A	Dive forward 0° to 30° Keeping course	A
Cascade occurs	No	А	No	А
Folding lines used	No	A	No	A
		~		
At least 50% chord				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	А
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	А
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	Α	No	А
Folding lines used	No	Α	No	Α
With accelerator				
Entry	Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	A	No	A
Folding lines used	No	A	No	A
11. Exiting deep stall (parachutal stall)	A			
Deep stall achieved	Yes	Α	Yes	A
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	А
Change of course	Changing course less than 45°	A	Changing course less than 45°	A
Cascade occurs	No	A	No	A
12. High angle of attack recovery	A			
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Cascade occurs	No	A	No	A
13. Recovery from a developed full stall	A		D , () D , ()	
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Collapse	No collapse	A	No collapse	A
Cascade occurs (other than collapses)	No	A	No	A
Rocking back	Less than 45°	A	Less than 45°	A
Line tension	Most lines tight	A	Most lines tight	A
14. Asymmetric collapse	A			
Small asymmetric collapse				
Change of course until re-inflation / Maximum dive forv roll angle	ward or 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	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
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)	A
Twist occurs	No	А	No	А
Cascade occurs	No	A	No	A
Folding lines used	No	A	No	A
			-	
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forv roll angle	ward or Less than 90° / Dive or roll angle 15° to 45°	A	Less than 90° / Dive or roll angle 15° to 45°	A
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А

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)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
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°	A	Less than 90° / Dive or roll angle 0° to 15°	A
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
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)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
I are according a lange with fully activated accoloratory				
Large asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or	Less than 90° / Dive or roll angle	А	Less than 90° / Dive or roll angle	А
roll angle	15° to 45°	A	15° to 45°	~
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
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)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
15. Directional control with a maintained asymmetric collapse	Α			
Able to keep course	Yes	А	Yes	А
180° turn away from the collapsed side possible in 10 s	Yes	А	Yes	А
Amount of control range between turn and stall or spin	More than 50 % of the	А	More than 50 % of the symmetric	А
16. Trim speed spin tendency	symmetric control travel		control travel	
Spin occurs	No	А	No	А
17. Low speed spin tendency	Α	7.		,,
Spin occurs	No	А	No	А
18. Recovery from a developed spin	A			
Spin rotation angle after release	Stops spinning in less than 90°	А	Stops spinning in less than 90°	А
Cascade occurs	No	А	No	А
19. B-line stall	Α			
Change of course before release	Changing course less than 45°	А	Changing course less than 45°	А
Behaviour before release	Remains stable with straight span	A	Remains stable with straight span	A
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Cascade occurs	No	А	No	А
20. Big ears	Α			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	Α	Stable flight	А
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
21. Big ears in accelerated flight	A De dia sta di sentrale		Dediteded as to b	
Entry procedure	Dedicated controls	A	Dedicated controls	A
Behaviour during big ears	Stable flight	A	Stable flight	A
Recovery	Spontaneous in less than 3 s Dive ferward 0° to 30°	A	Spontaneous in less than 3 s	A A
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A

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24. Comments of test pilot

Comments



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Glider model Serial number Trimmer	Epsilon 8 25 63928 no	Classification Representative Place of test		B Kari Eisenhut Villeneuve	
Test pilot Harness Harness to risers di Distance between ri Total weight in fligh	isers (cm)	Dupont Philippe Supair - Access M 42 40 70		Zoller Alain Gin Gliders - Gingo 2 L 43 46 100	
1. Inflation/Take-off Rising behaviour Special take off technique	required	A Smooth, easy and constant rising No	A A	Smooth, easy and constant rising No	A A
2. Landing Special landing technique	required	A No	A	No	А
3. Speed in straight fligh Trim speed more than 30 Speed range using the con Minimum speed	km/h	A Yes Yes Less than 25 km/h	A A A	Yes Yes Less than 25 km/h	A A A
4. Control movement <i>Max. weight in flight up</i> a	to 90 kg	Α			
Symmetric control pressur		Increasing / greater than 55 cm	А	not available	0
<i>Max. weight in flight 80 I</i> Symmetric control pressur		not available	0	Increasing / greater than 60 cm	А
<i>Max. weight in flight grea</i> Symmetric control pressur	e / travel	not available	0	not available	0
5. Pitch stability exiting a Dive forward angle on exit Collapse occurs		A Dive forward less than 30° No	A A	Dive forward less than 30° No	A A
flight	ng controls during accelerated	A	A	No	٨
Collapse occurs 7. Roll stability and dam Oscillations	ping	A Reducing	A		A
8. Stability in gentle spir Tendency to return to stra	ight flight	A Spontaneous exit	A	Spontaneous exit	A
9. Behaviour exiting a fu Initial response of glider (f Tendency to return to stra	irst 180°) ight flight	B No immediate reaction Spontaneous exit (g force decreasing, rate of turn decreasing)	B A	Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing)	A A
Turn angle to recover norr	nainight	720° to 1 080°, spontaneous recovery	В	Less than 720°, spontaneous recovery	A

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Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping course	A	Dive forward 0° to 30° Keeping course	A
Cascade occurs	No	А	No	А
Folding lines used	No	A	No	A
		~		
At least 50% chord				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	А
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	А
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Cascade occurs	No	Α	No	А
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With accelerator				
Entry	Rocking back less than 45°	A	Rocking back less than 45°	A
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Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	A	No	A
Folding lines used	No	A	No	A
11. Exiting deep stall (parachutal stall)	A			
Deep stall achieved	Yes	Α	Yes	A
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	A
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Large asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or	Less than 90° / Dive or roll angle	А	Less than 90° / Dive or roll angle	А
roll angle	15° to 45°	A	15° to 45°	~
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
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)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
15. Directional control with a maintained asymmetric collapse	Α			
Able to keep course	Yes	А	Yes	А
180° turn away from the collapsed side possible in 10 s	Yes	А	Yes	А
Amount of control range between turn and stall or spin	More than 50 % of the	А	More than 50 % of the symmetric	А
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Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	Α	Stable flight	А
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Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A

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24. Comments of test pilot

Comments