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* & NfL 2-565-20

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Manufacturer NOVA Vertriebsgesellschaft m.b.H.		Certification number	PG_1994.2022		
Address Auweg 14 6124 Terfens Austria		Flight test	2	21.11.2022	
Glider model Mentor 7 M		Classification	В		
Serial number 500488		Representative	Ν	None	
Trimmer no		Place of test	V	Villeneuve	
Folding lines used	no				
Test pilot		Claude Thurnheer	A	Alexandre Jofresa	
Harness		Advance - Success 4 M	D	Dudek - Zero Gravity M	
Harness to risers distance (cm)		43	4	43	
Distance between risers (cm)		44	4	48	
Total weight in flight (kg)		90		115	
1. Inflation/Take-off		В			
Rising behaviour		Easy rising, some pilot correction is required	В	Easy rising, some pilot correction is required	В
Special take off technique r	equired	No	А	No	A
2. Landing		Α			
Special landing technique r	equired	No	А	No	A
3. Speed in straight flight		В			
Trim speed more than 30 k	m/h	Yes	А	Yes	A
Speed range using the controls larger than 10 km/h		Yes	Α	Yes	A
Minimum speed		Less than 25 km/h	Α	25 km/h to 30 km/h	E
4. Control movement		В			
Max. weight in flight up to			0		,
Symmetric control pressure		not available	0	not available	(
Max. weight in flight 80 kg Symmetric control pressure	-	Increasing / greater than 60 cm	^	not available	(
Max. weight in flight great		increasing / greater than oo chi	A	not available	Ċ
Symmetric control pressure		not available	0	Approximately constant / greater than 65 cm	E
5. Pitch stability exiting a	ccelerated flight	Α			
Dive forward angle on exit	-	Dive forward less than 30°	А	Dive forward less than 30°	ł
Collapse occurs		No	А	No	1
6. Pitch stability operating flight	g controls during accelerated	A			
Collapse occurs		No	А	No	ŀ
7. Roll stability and damp	ing	Α			
Oscillations		Reducing	А	Reducing	ŀ
8. Stability in gentle spira		Α		.	
Tendency to return to straig		Spontaneous exit	A	Spontaneous exit	ŀ
9. Behaviour exiting a full		A			
Initial response of glider (fir	,	Immediate reduction of rate of turn	A	Immediate reduction of rate of turn	/
Tendency to return to straig	-	Spontaneous exit (g force decreasing, rate of turn decreasing)	A	Spontaneous exit (g force decreasing, rate of turn decreasing)	/
Turn angle to recover normal flight		Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	A
10. Symmetric front colla		В			

*This standard is NOT covered by accreditation D-IS-19457-01 Test Report generated automatically by AIR TURQUOISE SA, valid without signature Rev 07 | 04.03.2022 // ISO | 91.22 // Page 1 of 4

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 3 s to 5 s	В
Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping	A	Dive forward 0° to 30° Keeping	A
	course		course	
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
At least 50% chord				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in 3 s to 5 s	В	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	А	No	А
Folding lines used	No	А	No	А
With accelerator				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in 3 s to 5 s	В	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	А	No	А
Folding lines used	No	А	No	А
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	А	Yes	А
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
Change of course	Changing course less than 45°	А	Changing course less than 45°	А
Cascade occurs	No	А	No	А
12. High angle of attack recovery	Α			
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Cascade occurs	No	А	No	А
13. Recovery from a developed full stall	Α			
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Collapse	No collapse	А	No collapse	А
Cascade occurs (other than collapses)	No	A	No	A
Rocking back	Less than 45°	A	Less than 45°	А
Line tension	Most lines tight	A	Most lines tight	A
14. Asymmetric collapse	В			
Small asymmetric collapse				
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 15° to 45°	A
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)	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
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	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
			No (or only a small number of	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	collapsed cells with a spontaneous reinflation)	
Collapse on the opposite side occurs Twist occurs	collapsed cells with a spontaneous	A A	collapsed cells with a spontaneous	A
	collapsed cells with a spontaneous reinflation)		collapsed cells with a spontaneous reinflation)	
Twist occurs	collapsed cells with a spontaneous reinflation) No	A	collapsed cells with a spontaneous reinflation) No	A
Twist occurs Cascade occurs	collapsed cells with a spontaneous reinflation) No No	A A	collapsed cells with a spontaneous reinflation) No No	A A

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°		15° to 45°	
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
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)	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
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	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	Α			
collapse	~		×.	
Able to keep course	Yes	A	Yes	A
180° turn away from the collapsed side possible in 10 s	Yes	A	Yes	A
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	A	More than 50 % of the symmetric control travel	А
16. Trim speed spin tendency	A			
Spin occurs	No	Α	No	А
17. Low speed spin tendency	Α			
Spin occurs	No	А	No	А
18. Recovery from a developed spin	Α			
Spin rotation angle after release	Stops spinning in less than 90°	А	Stops spinning in less than 90°	А
Spin rotation angle after release Cascade occurs	Stops spinning in less than 90° No	A A	Stops spinning in less than 90° No	A A
Cascade occurs	No			
Cascade occurs 19. B-line stall	No A	A	No	A
Cascade occurs 19. B-line stall Change of course before release	No A Changing course less than 45°	A	No Changing course less than 45°	A
Cascade occurs 19. B-line stall Change of course before release Behaviour before release	No A Changing course less than 45° Remains stable with straight span	A A A	No Changing course less than 45° Remains stable with straight span	A A A
Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery	No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s	A A A	No Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s	A A A
Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit	No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°	A A A A	No Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°	A A A A
Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs	No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No	A A A A	No Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°	A A A A
Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears	No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No A	A A A A A	No Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No	A A A A A
Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure	No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No A Dedicated controls	A A A A A A	No Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No Dedicated controls	A A A A A A
Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure Behaviour during big ears	No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No A Dedicated controls Stable flight	A A A A A A A	No Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No Dedicated controls Stable flight	A A A A A A A
Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure Behaviour during big ears Recovery	No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No A Dedicated controls Stable flight Spontaneous in less than 3 s	A A A A A A A A	No Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No Dedicated controls Stable flight Spontaneous in less than 3 s	A A A A A A A A A A
Cascade occurs 19. B-line stall Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit	No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	A A A A A A A A	No Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No Dedicated controls Stable flight Spontaneous in less than 3 s	A A A A A A A A A A
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Ears done by B3