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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



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

Manufacturer	Davinci Products Inc.	Certification number		PG_1242.2017	
Address 53 sinchon-gil, Okcheon-		Date of flight test		04. 10. 2017	
	myeon, Yangpyeong-gun 12505 Gyeonggi-do Republic of Korea	5			
Glider model	Rhythm XS	Classification		Α	
Serial number	ART-XS170702-BLR	Representative		None	
Trimmer		Place of test		Villeneuve	
Folding lines used	no no	Flace OF lest		VIIIEIIEUVE	
Test pilot		Dupont Philippe		Thurnheer Claude	
Harness		Supair - Altiplume S		Sup' Air - Altiplume S	
Harness to risers d	istance (cm)	43		43	
Distance between r		40		40	
Total weight in fligh	it (Kg)	55		75	
1. Inflation/Take-off		A			
Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
Special take off technique	required	No	А	No	А
2. Landing		Α			
Special landing technique		No	А	No	А
3. Speed in straight fligh		Α			
Trim speed more than 30		Yes	A	Yes	A
Speed range using the co	ntrols larger than 10 km/h	Yes	A	Yes	A
Minimum speed		Less than 25 km/h	A	Less than 25 km/h	А
4. Control movement		Α			
Max. weight in flight up	to 80 kg				
Symmetric control pressu	re / travel	Increasing / greater than 55 cm	А	Increasing / greater than 55 cm	А
Mana and in the time to be					
Max. weight in flight 80 l		not available	0	not ovollable	0
Symmetric control pressur	re / travel	hot available	0	not available	0
Max. weight in flight gre	ater than 100 kg				
Symmetric control pressur	re / travel	not available	0	not available	0
5. Pitch stability exiting	accelerated flight	A			
Dive forward angle on exit	t	Dive forward less than 30°	А	Dive forward less than 30°	А
Collapse occurs		No	А	No	А
flight	ng controls during accelerated	Α			
Collapse occurs		No	A	No	A
7. Roll stability and dam	ping	Α			
Oscillations		Reducing	A	Reducing	A
8. Stability in gentle spirals Tendency to return to straight flight		A Createreau avit	•		٨
		Spontaneous exit	A	Spontaneous exit	A
9. Benaviour exiting a fu Initial response of glider (f	Illy developed spiral dive	A Immediate reduction of rate of	٨	Immediate reduction of rate of turn	А
initial response of glider (f	list 100)	turn	A		A
Tendency to return to stra	ight flight	Spontaneous exit (g force decreasing, rate of turn decreasing)	A	Spontaneous exit (g force decreasing, rate of turn decreasing)	A

Turn angle to recover normal flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	A
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	A	Dive forward 0° to 30° Keeping	A
	course		course	
Cascade occurs	No	А	No	А
Folding lines used	No		No	
At least 50% chord				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in less than 3 s	А	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		No	
With accelerator	Docking book loss that 15°	^	Deaking back loss than 45°	^
Entry	Rocking back less than 45°	A	5	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		No	
11. Exiting deep stall (parachutal stall)	A Yes	А	Yes	۸
Deep stall achieved				A
Recovery	Spontaneous in less than 3 s Dive forward 0° to 30°	A A	Spontaneous in less than 3 s Dive forward 0° to 30°	A
Dive forward angle on exit				A A
Change of course Cascade occurs	Changing course less than 45° No	A A	Changing course less than 45° No	A
12. High angle of attack recovery	A	~	INO .	A
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Cascade occurs	No	A	No	A
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	А	No	А
Rocking back	Less than 45°	А	Less than 45°	А
Line tension	Most lines tight	А	Most lines tight	А
14. Asymmetric collapse	A		-	
Small asymmetric collapse		•		
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	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		No	
Large asymmetric collapse				
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	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Total change of course	Less than 360°	A	Less than 360°	A

Calapse on the opposite side occurs No (or only a small number of collapse cells with a spontaneous reinflation) A No (or only a small number of cells with a spontaneous reinflation) A No Cascade occurs No No A No A No A No A No Cascade occurs No A No A No A No A No A No Cascade occurs No No No No A No
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Entry procedure Dedicated controls A Dedicated controls A
Behaviour during big ears Stable flight A Stable flight A Description Spentaneous in less than 2 c A Spentaneous in less than 2 c A
Behaviour during big earsStable flightAStable flightARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°A

Stable flight	A	Stable flight	A
A			
Yes	А	Yes	А
No	А	No	А
0			
not available	0	not available	0
not available	0	not available	0
not available	0	not available	0
) 	A Yes No D not available not available	A Yes A No A D not available 0 not available 0	A Yes No A No A No D not available 0 not available 0 not available

24. Comments of test pilot

Comments