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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Flight test report: EN 926-2:2013 & NfL 2-565-20

It. LIN 320-2.2013 6					
Skywalk GmbH & Co. KG	Certification number	Р	PG_1909.2022 15.11.2021		
Windeckstr. 4 83250 Marquartstein Germany	Flight test	1			
Cumeo 2 105	Classification	В	1		
CU01 001	Representative	Ν	lone		
	•	٧/	filleneuve		
	Tidoc of test	٧	mericave		
TIO .					
	Claude Thurnheer	Α	lexandre Jofresa		
	Advance - Success 4 M	Α	dvance - Success 4 M		
tance (cm)	44	44			
ers (cm)	44	46			
` '					
(1.9)		•			
	Α				
	Smooth, easy and constant rising	Α	Smooth, easy and constant rising	Α	
equired	No	Α	No	Α	
	Α				
quired	No	Α	No	Α	
	Α				
n/h	Yes	Α	Yes	Α	
ols larger than 10 km/h	Yes	Α	Yes	Α	
	Less than 25 km/h	Α	Less than 25 km/h	Α	
	Α				
80 kg					
/ travel	not available	0	not available	0	
to 100 kg					
/ travel	Increasing / greater than 60 cm	Α	not available	0	
er than 100 kg					
/ traval			Increasing / greater than 65 cm		
		0	3 3	Α	
celerated flight	not available A		v v	Α	
		Α	Dive forward less than 30°	A	
celerated flight	A Dive forward less than 30° No	Α	v v		
	A Dive forward less than 30°	Α	Dive forward less than 30°	Α	
celerated flight	A Dive forward less than 30° No	A A	Dive forward less than 30°	Α	
celerated flight	A Dive forward less than 30° No A	A A	Dive forward less than 30° No	A A	
celerated flight controls during accelerated	A Dive forward less than 30° No A	A A	Dive forward less than 30° No	A A	
celerated flight controls during accelerated	A Dive forward less than 30° No A No A	A A	Dive forward less than 30° No	A A	
celerated flight controls during accelerated	A Dive forward less than 30° No A No A Reducing	A A	Dive forward less than 30° No	A A	
celerated flight controls during accelerated ng	A Dive forward less than 30° No A No A Reducing A	A A A	Dive forward less than 30° No No Reducing	A A A	
celerated flight controls during accelerated ng s nt flight	A Dive forward less than 30° No A No A Reducing A Spontaneous exit	A A A	Dive forward less than 30° No No Reducing	A A A	
celerated flight controls during accelerated ng s nt flight v developed spiral dive	A Dive forward less than 30° No A No A Reducing A Spontaneous exit A	A A A	Dive forward less than 30° No No Reducing Spontaneous exit	A A A	
celerated flight controls during accelerated ng s nt flight developed spiral dive t 180°)	A Dive forward less than 30° No A No A Reducing A Spontaneous exit A Immediate reduction of rate of turn Spontaneous exit (g force	A A A A A	Dive forward less than 30° No No Reducing Spontaneous exit Immediate reduction of rate of turn Spontaneous exit (g force	A A A A A	
celerated flight controls during accelerated ng s nt flight developed spiral dive t 180°) nt flight	A Dive forward less than 30° No A No A Reducing A Spontaneous exit A Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous	A A A A A	Dive forward less than 30° No No Reducing Spontaneous exit Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous	A A A A A	
controls during accelerated ng s nt flight developed spiral dive t 180°) nt flight	A Dive forward less than 30° No A No A Reducing A Spontaneous exit A Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous recovery	A A A A A	Dive forward less than 30° No No Reducing Spontaneous exit Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous	A A A A A	
controls during accelerated ng s nt flight developed spiral dive t 180°) nt flight ll flight se	A Dive forward less than 30° No A No A Reducing A Spontaneous exit A Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous recovery	A A A A A	Dive forward less than 30° No No Reducing Spontaneous exit Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous	A A A A A	
	Skywalk GmbH & Co. KG Windeckstr. 4 83250 Marquartstein Germany Cumeo 2 105 CU01 001 no no cance (cm) ers (cm) (kg) quired yh ols larger than 10 km/h 80 kg travel to 100 kg	Skywalk GmbH & Co. KG Windeckstr. 4 83250 Marquartstein Germany Cumeo 2 105 CU01 001 Representative Place of test Claude Thurnheer Advance - Success 4 M Finance (cm) A Smooth, easy and constant rising No A Quired No A Quired No A Yes Less than 25 km/h A 80 kg I travel to 100 kg I travel I Increasing / greater than 60 cm	Skywalk GmbH & Co. KG Windeckstr. 4 83250 Marquartstein Germany Cumeo 2 105 CU01 001 Representative Place of test V Claude Thurnheer Advance - Success 4 M A A Smooth, easy and constant rising A Quired No A A A Quired No A A A Quired No A A A A A A A A A A A A Book kg Veravel not available o Increasing / greater than 60 cm A A A A A A A Book kg Veravel Increasing / greater than 60 cm A A A A A A A A A A A Book kg Veravel Increasing / greater than 60 cm A A A A A A A A A A A A A	Windeckstr. 4 83250 Marquartstein Germany Cumeo 2 105 Classification B CU01 001 Representative None Place of test Villeneuve Claude Thurnheer Advance - Success 4 M Advance -	

Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping	Α	Dive forward 0° to 30° Keeping	Α
	course		course	
Cascade occurs	No	Α	No	Α
Folding lines used	No	Α	No	Α
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	Α	No	Α
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	Α	No	Α
11. Exiting deep stall (parachutal stall)	A			
Deep stall achieved	Yes	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		A
12. High angle of attack recovery	A	^	NO	^
	Spontaneous in less than 3 s	٨	Spontaneous in less than 3 s	۸
Recovery Cascade occurs	•	A	No	A
	No	Α	NO	Α
13. Recovery from a developed full stall	A	٨	Dive femaled 0° to 20°	۸
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Collapse	No collapse No	A	No collapse No	A
Cascade occurs (other than collapses) Rocking back	Less than 45°	A	Less than 45°	A
Line tension	Most lines tight	A A	Most lines tight	A A
14. Asymmetric collapse	B	^	wost lines tight	^
Small asymmetric collapse	5			
Change of course until re-inflation / Maximum dive forward or	Less than 90° / Dive or roll angle	Δ	Less than 90° / Dive or roll angle	Δ
roll angle Re-inflation behaviour	0° to 15° Spontaneous re-inflation	Α	0° to 15° Spontaneous re-inflation	A
Total change of course	Less than 360°	A	Less than 360°	A A
Collapse on the opposite side occurs	No (or only a small number of	A	No (or only a small number of	A
Collapse on the opposite side occurs	collapsed cells with a spontaneous reinflation)	۸	collapsed cells with a spontaneous reinflation)	۸
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No	Α	No	Α
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	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	Α	No	Α
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
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	Α	No	Α
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	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	Α	No	Α
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	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	В			
Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in 90° to 180°	В
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	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