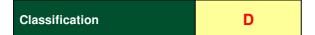
FTR - Flight Test Report Dieser Prüfbericht darf ohne schriftliche Zustimmung der EAPR nicht, auch nich

Manufacturer	AIRDESIGN	Type testing No.	EAPR-GS-0625/17	
	AIRDESIGN GmbH Rhombergstraße 9 A-6967 Absam	serial number	XD2WSM1PP170804	
Model	Hero SM	Location	Achensee	
		Location	Schruns	



Rev. 2.3 - 26.11.2014 EAPR GmbH - Marktstr. 11 D-87730 Bad Grönenbach - Germany

Date of testing	20.03.2017	Minimum take off w 80 kg	reight	Maximum take off weight 95 kg			
Testpilot		Mike Küng		Johannes Tschofen			
Harness		EAPR-Equipment	Messen Profes Bewerten	EAPR Equipment			
Pilot's take off weight		80 kg		95 kg			





est-criteria		Minimum take off weight	Evaluation	Maximum take off weight	Evaluation		
1. Inflation / take-off - 4.4.1							
ising behavior		Easy rising, some pilot correction is required	В	Easy rising, some pilot correction is required	В		
Special take off technique required		No	Α	No	Α		
2. Landing - 4.4.2							
Special landing technique required		No	l A	No	А		
3. Speeds in straight flight - 4.4.3		1.0		1.0	А		
Trim speed more than 30km/h		Yes	Α	l V	Λ .		
,				Yes	Α		
Speed range using the controls larger than 10km/h	1	Yes	Α	Yes	Α		
Minimum speed		25 km/h to 30 km/h	В	25 km/h to 30 km/h	В		
4. Control movement - 4.4.4							
Max. weight in flight up to 80kg			-		-		
Max. weight in flight 80 to 100kg		Increasing 45cm - 60cm	С	Increasing 45cm - 60cm	С		
Max. weight in flight greater than 100kg			-		-		
5. Pitch stability exiting accelerated flight - 4.4	1.5						
Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°	Α		
Collapse occurs		No	Α	No	Α		
6. Pitch stability operating controls during acc	elerated	flight - 4.4.6					
Collapse occurs		No	Α	No	Α		
7. Roll stability and damping - 4.4.7							
Oscillations		Reducing	A	Reducing	Α		
8. Stability in gentle spirals - 4.4.8			<u> </u>	-			
Tendency to return to straight flight		Spontaneous exit	A	Spontaneous exit	А		
9. Behaviour exiting a fully developed spiral di	ve - 4.4.				, ,,		
Initial response of glider (first 180°)	itial response of glider (first 180°)		В	Immediate reduction of rate in turn	Α		
Tendency to return to straight flight		Spontaneous exit	Α	Spontaneous exit	Α		
Turn angle to recover normal flight		Less than 720°, spontaneous recovery	Α	720° to 1080°, spontaneous recovery	В		
10. Symmetric front collapse - 4.4.10							
Folding lines used		Yes	D	Yes			
Entry	trim speed ~ 30%	Rocking back less than 45°	Α	Rocking back less than 45°	Α		
Recovery		Spontaneous in less than 3 sec	Α	Spontaneous in 3 to 5 sec	В		
Dive forward angle on exit	ds E	30° - 60° Entering a turn of less than 9		0° - 30° Keeping course	Α		
Cascade occurs		No	Α	No	Α		
Entry	> 20%	Rocking back less than 45°	Α	Rocking back less than 45°	Α		
Recovery	g < peeds	Spontaneous in 3 to 5 sec	В	Spontaneous in 3 to 5 sec	В		
Dive forward angle on exit	ė.	30° - 60° Entering a turn of less than 9		30° - 60° Entering a turn of less than 90°	В		
Cascade occurs	Σ	No	Α	No	Α		
Entry	20%	Rocking back less than 45°	Α	Rocking back greater than 45°	С		
Recovery	accelerated > 50 %	Spontaneous in 3 to 5 sec	В	Spontaneous in 3 to 5 sec	В		
Dive forward angle on exit	xeler	30° - 60° Entering a turn of less than 9		60° - 90° Entering a turn of less than 90°	D		
Cascade occurs		No	Α	No	Α		
11. Exiting deep stall (parachutal stall) - 4.4.11							
Deep stall achieved		Yes		Yes			
Recovery		Spontaneous in less than 3 sec	Α	Spontaneous in less than 3 sec			
Dive forward angle on exit		30° - 60°	В	30° - 60°	В		
Change of course		Changing course less than 45°	Α	Changing course less than 45°	Α		
Cascade occurs		No	Α	No			

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Recovery Cascade occurs 13. Recovery from a developed full stall - 4.4 Dive forward angle on exit Collapse Cascade accurs (atter than collapse)	.13	Spontaneous in	less than 3 sec		Α	Spontaneous in	less than 3 sec		
Recovery from a developed full stall - 4.4 Dive forward angle on exit Collapse	.13	No				operitario e e e	Α		
Recovery from a developed full stall - 4.4 Dive forward angle on exit Collapse	.13		No			No			A
Collapse		THO .		А	110				
	Dive forward angle on exit				В	30° - 60°			В
			ipse		C	No collapse			A
Cascade occurs (other than collapse) Rocking backward		No Less than 45°			A	No Greater than 45	5°		A C
Line tension		Most lines tight			Α	Most lines tight			A
14. Asymmetric collapse (trim speed) - 4.4.14									
Folding lines used		Yes		1	D	Yes	1	ı	D
Change of course until re-inflation	esd	90° - 180°	Dive or roll angle	15° - 45°	В	< 90°	Dive or roll angle	15° - 45°	Α
Re-inflation behavior	trim speed, max 50% collapse	Spontaneous re	e-inflation	•	Α	Spontaneous re	e-inflation		Α
Total change of course	trim speed x 50% colla	Less than 360°			Α	Less than 360° No			Α
Collapse on the opposite side occurs	ax 50	No		Α	A				
Twist occurs Cascade occurs	Ĕ	No No		A	No No				
		90° - 180°	Dive or roll angle	45° - 60°		90° - 180°	Dive or roll angle	15° - 45°	A B
Change of course until re-inflation	bse	90" - 180"	Dive or roll angle	45" - 60"	С	90* - 180*	Dive or roll angle	15" - 45"	В
Re-inflation behavior	trim speed, max 75% collapse	Spontaneous re	e-inflation		Α	Spontaneous re	e-inflation		Α
Total change of course	trim speed x 75% colls	Less than 360°		Α	Less than 360° No			Α	
Collapse on the opposite side occurs	tri ax 7	No No		A				A	
Twist occurs Cascade occurs	=	No No		A	No No			A A	
		ı						l I	
Change of course until re-inflation	9SG	90° - 180°	Dive or roll angle	45° - 60°	С	< 90°	Dive or roll angle	15° - 45°	Α
Re-inflation behavior	accelerated, max 50% collapse	Spontaneous re	e-inflation		Α	Spontaneous re	e-inflation		Α
Total change of course	accelerated, x 50% colla	Less than 360°			Α	Less than 360°			Α
Collapse on the opposite side occurs	ax 5i	No			Α	No			Α
Twist occurs Cascade occurs	Ε	No No			A	No No			A A
		180° - 360°	Dive or roll angle	45° - 60°		< 90°	Dive or roll angle	45° - 60°	
Change of course until re-inflation	bse	180" - 360"	Dive or roll angle	45" - 60"	С	< 90"	Dive or roll angle	45* - 60*	С
Re-inflation behavior	accelerated, max 75% collapse	Spontaneous re	e-inflation		Α	Spontaneous re	e-inflation		Α
Total change of course	29ler	Less than 360°			Α	Less than 360°			Α
Collapse on the opposite side occurs	aco	No No No			A	No No			A
Twist occurs Cascade occurs	۲				A	No No		A A	
15. Directional control with a maintained asym	metric co					1.10			- / .
Able to keep course straight		Yes			Α	Yes			Α
180° turn away from the collapsed side possible i	n 10 sec	Yes		Α	Yes			Α	
		25% to 50% of the symmetric control travel							
Amount of control range between turn and stall or	spin	25% to 50% of	the symmetric cor	ntrol travel	С	More than 50%	of the symmetric	control travel	Α
16. Trim speed spin tendency - 4.4.16									
Spin occurs		No			Α	No	Α		
17. Low speed spin tendency - 4.4.17		No		Ι Λ	No			Λ.	
Spin occurs 18. Recovery from a developed spin - 4.4.18		INO			Α	140			Α
		0				01		T	0
Spin rotation angle after release		Stops spinning in less than 90°		Α	Stops spinning in 90° to 180°			С	
Cascade occurs		No		Α	No			Α	
19. B-line-stall - 4.4.19 Change of course before release		Changing cours	a loss than 45°		A	Changing cours	a lose than 45°	T	Α
Behaviour before release		Changing course less than 45°		C	Changing course less than 45°				
Deliaviour Deloie lelease		Remains stable without straight span		U	Remains stable with straight span			Α	
Recovery		Spontaneous in less than 3 sec		Α	Spontaneous in 3 to 5 sec			В	
Dive forward angle on exit		30° - 60°		Α	30° - 60°			Α	
Cascade occurs		No			Α	No			Α
20. Big ears - 4.4.20		1						- 1	
Entry procedure		Standard technique		Α	Special device required			Α	
Behaviour during big ears		Unstable flight		С	Stable flight			Α	
Recovery		Spontaneous in 3 to 5 sec			В	Recovery through pilot action in less than a furth			В
Dive forward angle on exit		0° - 30°			Α	3 sec 0° bis 30°			Α
21. Big Ears in accelerated flight - 4.4.21									
Entry procedure		Standard technique		Α	Special device required			Α	
Behaviour during big ears		Unstable flight		C	Stable flight			A	
Recovery		Spontaneous in 3 to 5 sec		A	Recovery through pilot action in less than a further			В	
•		0° - 30°			3 sec				
Dive forward angle on exit Behaviour immediately after releasing the accelarator while				Α	0° bis 30°			Α	
maintaining big ears		Stable flight			Α	Unstable flight			С
23. Alternative means of directional control -	4.4.22								
		Yes			Α	Yes			Α
180° turn achievable in 20 sec		No			Α	No			A
180° turn achievable in 20 sec Stall or spin occurs									
	ration des	cribed in the use	r's manual - 4.4.	23					
Stall or spin occurs 23. Any other flight procedure and/or configue Procedure works as descibed	ration des	cribed in the use	r's manual - 4.4.	23	NA				NA
Stall or spin occurs 23. Any other flight procedure and/or configu	ration des	cribed in the use	r's manual - 4.4.	23	NA				NA
Stall or spin occurs 23. Any other flight procedure and/or configu Procedure works as descibed Procedure suitable for novice pilots	ration des	cribed in the use	r's manual - 4.4.	23					