FTR - Flight Test Report

Manufacturer	BRUCE GOLDSMITH DESIGN	Type testing No.	EAPR-GS-0379/15	Fct=	
	Bruce Goldsmith Design Hügelweg 12 A-9400 Wolfsberg	serial number	bg025101a	Messen Prüfen Bewerten Rev. 2.3 - 26.11.2014	
Model	Base S		Brauneck	EAPR GmbH - Marktstr. D-87730 Bad Grönenbach - Germa	
		Location	Gardasee		

gsweise, vervielfältigt werden.

Date of testing	26.02.2015	Minimum take c 60 kg	off weight	Maximum take off weight 80 kg		
Testpilot		Sepp Bauer		Mike Küng		
Harness		EAPR Testequipment	-62	EAPR-Testequipment		
Pilot's take off weigh	nt	60	kg	80 kg		

Classification B



Test-criteria	Test-criteria		Evaluation	Maximum take off weight	Evaluatio
1. Inflation / take-off - 4.4.1					
Rising behavior		Smooth, easy and constant rising, no pilot correction required A Smooth, easy and constant rising, no pilot correction required			А
Special take off technique required		No	A	No	A
2. Landing - 4.4.2					
Special landing technique required		No	А	No	А
3. Speeds in straight flight - 4.4.3		110	~		
Trim speed more than 30km/h		Yes	А	Yes	А
Speed range using the controls larger than 10km/h		Yes	A	Yes	A
Minimum speed		Less than 25 km/h	А	25 km/h to 30 km/h	В
4. Control movement - 4.4.4					
Max. weight in flight up to 80kg		Increasing > 55cm A Increasing >		Increasing > 55cm	А
Max. weight in flight 80 to 100kg			-		-
Max. weight in flight greater than 100kg		1	-		-
5. Pitch stability exiting accelerated flight -	4.4.5				
Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°	A
Collapse occurs		No	A	No	A
6. Pitch stability operating controls during	accelerated	flight - 4.4.6			
Collapse occurs		No	А	No	А
7. Roll stability and damping - 4.4.7					
Oscillations		Reducing	А	Reducing	A
8. Stability in gentle spirals - 4.4.8		reducing		Reddollig	
Tendency to return to straight flight		Spontaneous exit	А	Spontaneous exit	А
9. Behaviour exiting a fully developed spira	al dive - 4.4.		A	Spontaneous exit	A
Initial response of glider (first 180°)		No immediate reaction B No		No immediate reaction	В
Tendency to return to straight flight		Spontaneous exit	A	Spontaneous exit	Ā
Turn angle to recover normal flight		720° to 1080°, spontaneous recovery	В	Less than 720°, spontaneous recovery	A
10. Symmetric front collapse - 4.4.10					
Folding lines used		No		No	
Entry	30%	Rocking back less than 45°	А	Rocking back less than 45°	A
					A
Recovery	1	Spontaneous in less than 3 sec	A	Spontaneous in less than 3 sec	A
*	~ peed	0° - 30° Keeping course	A	Spontaneous in less than 3 sec 30° - 60° Keeping course	
Dive forward angle on exit Cascade occurs	1	0° - 30° Keeping course No	A A A	30° - 60° Keeping course No	A B A
Dive forward angle on exit Cascade occurs	trim speed ~	0° - 30° Keeping course	A	30° - 60° Keeping course	A B
Dive forward angle on exit Cascade occurs Entry	> 50% trim speed ~	0° - 30° Keeping course No	A A A	30° - 60° Keeping course No	A B A
Dive forward angle on exit Cascade occurs Entry Recovery Dive forward angle on exit	- beed > 50% trim speed ~	0° - 30° Keeping course No Rocking back less than 45° Spontaneous in less than 3 sec 0° - 30°	A A A A A A	30° - 60° Keeping course No Rocking back less than 45° Spontaneous in 3 to 5 sec 30° - 60° Entering a turn of less than 90°	A B A A B B
Dive forward angle on exit Cascade occurs Entry Recovery Dive forward angle on exit Cascade occurs	trim speed > 50% trim speed ~	0° - 30° Keeping course No Rocking back less than 45° Spontaneous in less than 3 sec 0° - 30° No Keeping course	A A A A A A A	No Keeping course No Rocking back less than 45° Spontaneous in 3 to 5 sec 30° - 60° 20° - 60° Entering a turn of less than 90° No No	A B A B B B A
Dive forward angle on exit Cascade occurs Entry Recovery Dive forward angle on exit Cascade occurs Entry	50% trim speed > 50% trim speed -	0° - 30° Keeping course No Rocking back less than 45° Spontaneous in less than 3 sec 0° - 30° No Keeping course No Rocking back less than 45°	A A A A A A A A	No Keeping course No Rocking back less than 45° Spontaneous in 3 to 5 sec 30° - 60° Bertering a turn of less than 90° No No Rocking back less than 45°	A B A A B B A A
Dive forward angle on exit Cascade occurs Entry Recovery Dive forward angle on exit Cascade occurs Entry Recovery	50% trim speed > 50% trim speed -	0° - 30° Keeping course No Rocking back less than 45° Spontaneous in less than 3 sec 0° - 30° No Keeping course No Rocking back less than 45° Spontaneous in less than 45° Spontaneous in less than 3 sec	A A A A A A A A A	No Keeping course No Rocking back less than 45° Spontaneous in 3 to 5 sec 30° - 60° 30° - 60° Entering a turn of less than 90° No Rocking back less than 45° Spontaneous in 3 to 5 sec Spontaneous in 3 to 5 sec	A B A B B A A A B
Dive forward angle on exit Cascade occurs Entry Recovery Dive forward angle on exit Cascade occurs Entry Recovery Dive forward angle on exit	50% trim speed > 50% trim speed -	0° - 30° Keeping course No Rocking back less than 45° Spontaneous in less than 3 sec 0° - 30° No Recking back less than 45° No Rocking back less than 45° Spontaneous in less than 45° 30° So Rocking back less than 45° Spontaneous in less than 3 sec 30° - 60°	A A A A A A A A B	30° - 60° Keeping course No Rocking back less than 45° Spontaneous in 3 to 5 sec 30° - 60° Entering a turn of less than 90° No Rocking back less than 45° Spontaneous in 3 to 5 sec 30° - 60° Entering a turn of less than 90°	A B A B B A A A B B B B
Dive forward angle on exit Cascade occurs Entry Recovery Dive forward angle on exit Cascade occurs Entry Recovery Dive forward angle on exit Cascade occurs	- Deeperation - 50% time speed > 50%	0° - 30° Keeping course No Rocking back less than 45° Spontaneous in less than 3 sec 0° - 30° No Keeping course No Rocking back less than 45° Spontaneous in less than 45° Spontaneous in less than 3 sec	A A A A A A A A A	No Keeping course No Rocking back less than 45° Spontaneous in 3 to 5 sec 30° - 60° 30° - 60° Entering a turn of less than 90° No Rocking back less than 45° Spontaneous in 3 to 5 sec Spontaneous in 3 to 5 sec	A B A B B A A A B
Dive forward angle on exit Cascade occurs Entry Recovery Dive forward angle on exit Cascade occurs Entry Recovery Dive forward angle on exit Cascade occurs 11. Exiting deep stall (parachutal stall) - 4.	- Deeperation - 50% time speed > 50%	0° - 30° Keeping course No Rocking back less than 45° Spontaneous in less than 3 sec 0° - 30° Vo Keeping course No Rocking back less than 45° Spontaneous in less than 3 sec 30° - 60° J0° - 60° Keeping course No Keeping course	A A A A A A A A B	No Keeping course No Rocking back less than 45° Spontaneous in 3 to 5 sec 30° - 60° 30° - 60° Entering a turn of less than 90° No Rocking back less than 45° Spontaneous in 3 to 5 sec 30° - 60° Spontaneous in 3 to 5 sec 30° - 60° Spontaneous in 3 to 5 sec 30° - 60° Bentering a turn of less than 90° No	A B A B B A A A B B B B
Dive forward angle on exit Cascade occurs Entry Recovery Dive forward angle on exit Cascade occurs Entry Recovery Dive forward angle on exit Cascade occurs 11. Exiting deep stall (parachutal stall) - 4.	- Deeperation - 50% time speed > 50%	0° - 30° Keeping course No Rocking back less than 45° Spontaneous in less than 3 sec 0° - 30° No Recking back less than 45° No Rocking back less than 45° Spontaneous in less than 45° 30° So Rocking back less than 45° Spontaneous in less than 3 sec 30° - 60°	A A A A A A A A B	30° - 60° Keeping course No Rocking back less than 45° Spontaneous in 3 to 5 sec 30° - 60° Entering a turn of less than 90° No Rocking back less than 45° Spontaneous in 3 to 5 sec 30° - 60° Entering a turn of less than 90°	A B A B B A A A B B B B
Dive forward angle on exit Cascade occurs Entry Recovery Dive forward angle on exit Cascade occurs Entry Recovery Dive forward angle on exit Cascade occurs 11. Exiting deep stall (parachutal stall) - 4. Deep stall achieved Recovery	- Deeperation - 50% time speed > 50%	0° - 30° Keeping course No Rocking back less than 45° Spontaneous in less than 3 sec 0° - 30° No Rocking back less than 45° Spontaneous in less than 3 sec 30° - 60° Gaberry Course No Yes Spontaneous in less than 3 sec	A A A A A A A A B A A	No Keeping course No Rocking back less than 45° Spontaneous in 3 to 5 sec 30° - 60° 30° - 60° Entering a turn of less than 90° No Rocking back less than 45° Spontaneous in 3 to 5 sec 30° - 60° 30° - 60° Entering a turn of less than 90° No Provide the set of th	A B B B A A B B B A A
Recovery Dive forward angle on exit Cascade occurs Entry Recovery Dive forward angle on exit Cascade occurs Entry Recovery Dive forward angle on exit Cascade occurs 11. Exiting deep stall (parachutal stall) - 4. Deep stall achieved Recovery Dive forward angle on exit Change of course	- Deeperation - 50% time speed > 50%	0° - 30° Keeping course No Rocking back less than 45° Spontaneous in less than 3 sec 0° - 30° Ves Keeping course	A A A A A A A A A A A A A A	No Keeping course No Rocking back less than 45° Spontaneous in 3 to 5 sec 30° - 60° 20° - 60° Entering a turn of less than 90° No Rocking back less than 45° Spontaneous in 3 to 5 sec 30° - 60° 30° - 60° Entering a turn of less than 90° No Yes	A B A A B B A A B B A

12. High angle of attack recovery - 4.4.12									
Recovery Spontaneous in less than 3 sec			А	Spontaneous in	A				
Cascade occurs		No		A	No			A	
13. Recovery from a developed full stall - 4.4.									
Dive forward angle on exit Collapse	0° - 30° No collapse			A	30° - 60° No collapse			B A	
Cascade occurs (other than collapse)		No			A	No			A
Rocking backward		Less than 45°			A	Less than 45°			A
Line tension 14. Asymmetric collapse (trim speed) - 4.4.14	Most lines tight			A	Most lines tight			A	
Folding lines used		No				No			
Change of course until re-inflation	n	< 90°	Dive or roll angle	15° - 45°	А	< 90°	Dive or roll angle	15° - 45°	А
Re-inflation behavior	trim speed, max 50% collapse	Spontaneous re	inflation		А	Spontonacija ra	inflation		A
Total change of course	speed, % colla	Less than 360°		A	Spontaneous re-inflation Less than 360°			A	
Collapse on the opposite side occurs	trim x 50			A	No			A	
Twist occurs	ma	No			A	No			A
Cascade occurs		No	Dive or roll angle	450 450	A	No	Dive or roll angle	450 450	A
Change of course until re-inflation	bse	90° - 180°	Dive or roll angle	15° - 45°	В	90° - 180°	Dive or roll angle	15° - 45°	В
Re-inflation behavior	trim speed, max 75% collapse	Spontaneous re	-inflation		A	Spontaneous re	-inflation		А
Total change of course	trim speed < 75% colla	Less than 360° No		A	Less than 360°			А	
Collapse on the opposite side occurs Twist occurs	tri nax			A	No No		A		
Cascade occurs		No No		Â	No			A	
Change of course until re-inflation		< 90°	Dive or roll angle	15° - 45°	А	90° - 180°	Dive or roll angle	15° - 45°	В
	d, apse			.5 +5				.5 +5	
Re-inflation behavior	accelerated, max 50% collapse	Spontaneous re	-inflation		А	Spontaneous re	-inflation		A
Total change of course	50%	Less than 360°			A	Less than 360°			A
Collapse on the opposite side occurs Twist occurs	a max	No No			A	No No			A A
Cascade occurs		No			A	No			A
Change of course until re-inflation	99	90° - 180°	Dive or roll angle	15° - 45°	В	90° - 180°	Dive or roll angle	15° - 45°	В
Re-inflation behavior	accelerated, max 75% collapse	Spontaneous re	-inflation		А	Spontaneous re	-inflation		A
Total change of course	accelerated ix 75% collaj	Less than 360°			A	Less than 360°			A
Collapse on the opposite side occurs	acc ax 7	No			A	No No No			A
Twist occurs Cascade occurs	٤	No No			A				A
15. Directional control with a maintained asym	netric col								
Able to keep course straight		Yes			А	Yes			A
180° turn away from the collapsed side possible in	10 sec	Yes		А	Yes			А	
Amount of control range between turn and stall or	spin	More than 50% of the symmetric control travel		А	More than 50% of the symmetric control travel			А	
16. Trim speed spin tendency - 4.4.16									
Spin occurs		No			A	No			A
17. Low speed spin tendency - 4.4.17									
Spin occurs		No			A	No			А
18. Recovery from a developed spin - 4.4.18		1				1			
Spin rotation angle after release		Stops spinning in less than 90°		A	Stops spinning in less than 90°			A	
Cascade occurs		No		A	No			A	
19. B-line-stall - 4.4.19 Change of course before release		Changing course	e less than 45°		A	Changing course	a less than 45°		A
Behaviour before release		Changing course less than 45° Remains stable with straight span		A	Changing course less than 45° Remains stable with straight span			A	
Recovery		Spontaneous in less than 3 sec		A	Spontaneous in less than 3 sec			A	
Dive forward angle on exit Cascade occurs		0° - 30° No		A	30° - 60° No			A	
20. Big ears - 4.4.20									
Entry procedure Standard technique			aue		А	Standard techni	que		А
Behaviour during big ears		Stable flight		A	Stable flight			A	
Recovery		Spontaneous in 3 to 5 sec		В	Spontaneous in 3 to 5 sec			В	
Dive forward angle on exit		0° - 30°		A	0° bis 30°			A	
Dive forward angle on exit 0° - 30° 21. Big Ears in accelerated flight - 4.4.21					0 0.0 00			- A	
Entry procedure	Standard technique		А	Standard technique			А		
Behaviour during big ears		Stable flight		A	Stable flight			A	
Recovery		Spontaneous in 3 to 5 sec		A	Spontaneous in 3 to 5 sec			A	
Dive forward angle on exit		0° - 30°		A	0° bis 30°			A	
Behaviour immediately after releasing the accelarator while		Stable flight		A	Stable flight			A	
maintaining big ears 23. Alternative means of directional control - 4	4 22	<u> </u>							
		Vac				Vac			
180° turn achievable in 20 sec Yes			A	Yes			A		
Stall or spin occurs 23. Any other flight procedure and/or configura	ation decr	No	r's manual - 4.4	23	A	No			A
Procedure works as described					NA				NA
Procedure suitable for novice pilots				NA				NA	
Cascade occurs				NA				NA	
24 Remarks of testpilot									
24. Remarks of testpilot:									