

AIR TURQUOISE SA certified by



Flight test report: EN

Manufacturer Address	Gin Gliders Inc. 285-1 Galdam-Ri, Mohyun- Myun, 449-855 YongIn-City, Kyunggi-Do Korea	Certification number Date of flight test	PG_0512.2011 16. 01. 2012	
Representative	Gin Seok Song	Place of test	Villeneuve	
Glider model	BoomerangX M	Classification	D	
Trimmer	no			

-	Thurnheer Claude Gin Gliders - Gingo II M 100		Berruex Gilles Gin Gliders - Gingo 2 L 110	
1. Inflation/Take-off	С			
Rising behaviour	Overshoots, shall be slowed down to avoid a front collapse	С	Overshoots, shall be slowed down to avoid a front collapse	С
Special take off technique required	No	А	No	A
2. Landing	Α			
Special landing technique required	No	А	No	А
3. Speed in straight flight	В			
Trim speed more than 30 km/h	Yes	А	Yes	А
Speed range using the controls larger than 10 km/h	Yes	А	Yes	А
Minimum speed	25 km/h to 30 km/h	В	25 km/h to 30 km/h	В
4. Control movement	С			
Max. weight in flight up to 80 kg				
Symmetric control pressure / travel	not available	0	not available	0
Max. weight in flight 80 kg to 100 kg				
Symmetric control pressure / travel	Increasing / 45 cm to 60 cm	С	not available	0
Max. weight in flight greater than 100 kg				
Symmetric control pressure / travel	not available	0	Increasing / 50 cm to 65 cm	С
5. Pitch stability exiting accelerated flight	Α			
Dive forward angle on exit	Dive forward less than 30°	А	Dive forward less than 30°	А
Collapse occurs	No	А	No	А
6. Pitch stability operating controls during accelerated flight	Α			
Collapse occurs	No	А	No	А
7. Roll stability and damping	Α			
Oscillations	Reducing	А	Reducing	А
8. Stability in gentle spirals	Α			
Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	А
9. Behaviour in a steeply banked turn	В			
Sink rate after two turns	More than 14 m/s	В	More than 14 m/s	В
10. Symmetric front collapse	D			
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Recovery through pilot action between a further 3 s to 5 s	D	Recovery through pilot action in less than a further 3 s	D
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 30° to 60° / Keeping course	В
Cascade occurs	No	А	No	Α

With accelerator				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Recovery through pilot action between a further 3 s to 5 s	D	Recovery through pilot action in less than a further 3 s	D
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 30° to 60° / Keeping course	В
Cascade occurs	No	А	No	А
11. Exiting deep stall (parachutal stall)	D			
Deep stall achieved	Yes	А	Yes	А
Recovery	Recovery through pilot action in less than a further 5 s	D	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	D			
Recovery	Recovery through pilot action in less than a further 3 s	D	Recovery through pilot action in less than a further 3 s	D
Cascade occurs	No	А	No	А
13. Recovery from a developed full stall	C			
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 30° to 60°	в
Collapse	No collapse	А	No collapse	А
Cascade occurs (other than collapses)	No	А	No	А
Rocking back	Less than 45°	А	Greater than 45°	С
Line tension	Most lines tight	А	Most lines tight	А
14. Asymmetric collapse	D		5	
With 50% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	А	Less than 90° / Dive or roll angle 15° to 45°	А
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	А	No	А
Twist occurs	No	Α	No	A
Cascade occurs	No	Α	No	A
With 75% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	180° to 360° / Dive or roll angle 60° to 90°	D	180° to 360° / Dive or roll angle 60° to 90°	D
Re-inflation behaviour	Spontaneous re-inflation	A	Inflates in less than 3 s from start of pilot action	С
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 50% collapse and accelerator				
, Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour	Spontaneous re-inflation	A	Inflates in less than 3 s from start of pilot action	С
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 75% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle greater than 90°	D	180° to 360° / Dive or roll angle 60° to 90°	D
Re-inflation behaviour	Spontaneous re-inflation	A	Inflates in less than 3 s from start of pilot action	С
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А

	Ma a	
		A
		A
	control travel	A
A	No	A
D	Yes	D
-		A
A	No	A
		•
		0
		0
		0
		0
lable 0	not available	0
	.	
•	·	A
0	v	A
n a further 3 s	less than a further 3 s	В
ward 0° to 30° A	Dive forward 0° to 30°	A
d technique A	Standard technique	A
·	Stable flight	A
	Recovery through pilot action in less than a further 3 s	В
ward 0° to 30° A	Dive forward 0° to 30°	А
ight A	Stable flight	A
neous exit A	Spontaneous exit	А
	Less than 720°, spontaneous recovery	A
	19	
А	Yes	А
А	No	А
lable 0	not available	0
lable 0	not available	0
lable 0	not available	0
	B-Line stall is not recommanded in users manual	
anforderungen von D. Nach Auskunft des ers und bestätigt durch Festflüge richtet sich ichirm ausschließlich an ahrene Wettkampf- PWC-Niveau) und hicht das Klasse D d-Gleitschirmmodell des	This glider meets the minimum requirements of EN/LTF class D. According to the manufacturer and confirmed by our own testing this glider addresses highly experienced comp-pilots (PWC level) exclusively and is no replacement for the standard D- class-glider of the same manufacturer.	
	D pinning in 180° to 360° D lable 0 d technique A n a further 3 s B ward 0° to 30° A light A n a further 3 s B ward 0° to 30° A light A na 720°, spontaneous A y A lable 0 lable 0 lable 0	AYesan 50 % of the ric control travelAMore than 50 % of the symmetric control travelANoDYesbinning in 180° to 360°DStops spinning in less than 90° Alable0not availablelable0not availablelightBRecovery through pilot action in less than a further 3 sm 720°, spontaneousASpontaneous exit A Less than 720°, spontaneous recovery 19lable0not availablelable0not availablelable0not availablelable0not availablelable0not availablelable0not availablelable0not availablelable0not available