



## Flight test report: EN 926-2:2013+A1:2021\* and NfL 2-565-20

Manufacturer	<b>Niviuk Gliders / Air Games S.L.</b>	Certification number	PG_2450.2024
Address	C. Del Ter, 6 Nave D 17165 La Cellera de Ter Girona Spain	Flight test	28.08.2024
Glider model	<b>Takoo 6 44</b>	<b>Classification</b>	<b>B</b>
Serial number	TAKOO6344	Representative	None
Trimmer	Closed	Place of test	Villeneuve
Folding lines used	no		
<b>Test pilot</b>	Claude Thurnheer	Alexandre Jofresa	
<b>Harness</b>	Advance Thun AG Bi-pro 3 M	Advance Thun AG Bi-pro 3 M	
<b>Harness to risers distance [cm]</b>	42	42	
<b>Distance between risers [cm]</b>	55	55	
<b>Length of rigid spreaders [cm]</b>	15	15	
<b>Total weight in flight [kg]</b>	140	240	
<b>1. Inflation/Take-off</b>	<b>A</b>		
Rising behaviour	Smooth, easy and constant rising	A	Smooth, easy and constant rising A
Special take off technique required	No	A	No A
<b>2. Landing</b>	<b>A</b>		
Special landing technique required	No	A	No A
<b>3. Speed in straight flight</b>	<b>B</b>		
Trim speed more than 30 km/h	Yes	A	Yes A
Speed range using the controls larger than 10 km/h	Yes	A	Yes A
Minimum speed	25 km/h to 30 km/h	B	25 km/h to 30 km/h B
<b>4. Control movement</b>	<b>A</b>		
<b>Max. weight in flight up to 80 kg</b>			
Symmetric control pressure / travel	not available	0	not available 0
<b>Max. weight in flight 80 kg to 100 kg</b>			
Symmetric control pressure / travel	not available	0	not available 0
<b>Max. weight in flight greater than 100 kg</b>			
Symmetric control pressure / travel	Increasing / greater than 65 cm	A	Increasing / greater than 65 cm A
<b>5. Pitch stability exiting accelerated flight</b>	<b>0</b>		
Dive forward angle on exit	not available	0	not available 0
Collapse occurs	not available	0	not available 0
<b>6. Pitch stability operating controls during accelerated flight</b>	<b>0</b>		
Collapse occurs	not available	0	not available 0
<b>7. Roll stability and damping</b>	<b>A</b>		
Oscillations	Reducing	A	Reducing A
<b>8. Stability in gentle spirals</b>	<b>A</b>		
Tendency to return to straight flight	Spontaneous exit	A	Spontaneous exit A

\*This standard is NOT covered by accreditation D-IS-19457-01

<b>9. Behaviour exiting a fully developed spiral dive</b>				
Initial response of glider (first 180°)	<b>B</b> Immediate reduction of rate of turn	A	No immediate reaction	B
Tendency to return to straight 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
<b>10. Symmetric front collapse</b>				
<b>Approximately 30 % chord</b>				
Entry	Rocking back less than 45°	A	Rocking back less than 45°	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	A	No	A
<b>At least 50% chord</b>				
Entry	Rocking back less than 45°	A	Rocking back less than 45°	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	A	No	A
<b>With accelerator</b>				
Entry	not available	0	not available	0
Recovery	not available	0	not available	0
Dive forward angle on exit / Change of course	not available	0	not available	0
Cascade occurs	not available	0	not available	0
Folding lines used	Not available	0	Not available	0
<b>11. Exiting deep stall (parachutal stall)</b>				
Deep stall achieved	<b>A</b> Yes	A	Yes	A
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Change of course	Changing course less than 45°	A	Changing course less than 45°	A
Cascade occurs	No	A	No	A
<b>12. High angle of attack recovery</b>				
Recovery	<b>A</b> Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Cascade occurs	No	A	No	A
<b>13. Recovery from a developed full stall</b>				
Dive forward angle on exit	<b>A</b> Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Collapse	No collapse	A	No collapse	A
Cascade occurs (other than collapses)	No	A	No	A

Rocking back	Less than 45°	A	Less than 45°	A
Line tension	Most lines tight	A	Most lines tight	A

#### 14. Asymmetric collapse

#### B

##### Small asymmetric collapse

Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	Less than 90° / Dive or roll angle 0° to 15°	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
Total change of course	Less than 360°	A	Less than 360°	A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous re-inflation)	A	No (or only a small number of collapsed cells with a spontaneous re-inflation)	A
Twist occurs	No	A	No	A
Cascade occurs	No	A	No	A
Folding lines used	No	A	No	A

##### 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°	B	Less than 90° / Dive or roll angle 15° to 45°	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
Total change of course	Less than 360°	A	Less than 360°	A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous re-inflation)	A	No (or only a small number of collapsed cells with a spontaneous re-inflation)	A
Twist occurs	No	A	No	A
Cascade occurs	No	A	No	A
Folding lines used	No	A	No	A

##### Small asymmetric collapse with fully activated accelerator

Change of course until re-inflation / Maximum dive forward or roll angle	not available	0	not available	0
Re-inflation behaviour	not available	0	not available	0
Total change of course	not available	0	not available	0
Collapse on the opposite side occurs	not available	0	not available	0
Twist occurs	not available	0	not available	0
Cascade occurs	not available	0	not available	0
Folding lines used	Not available	0	Not available	0

##### Large asymmetric collapse with fully activated accelerator

Change of course until re-inflation / Maximum dive forward or roll angle	not available	0	not available	0
Re-inflation behaviour	not available	0	not available	0
Total change of course	not available	0	not available	0
Collapse on the opposite side occurs	not available	0	not available	0
Twist occurs	not available	0	not available	0
Cascade occurs	not available	0	not available	0

Folding lines used	Not available	0	Not available	0
<b>15. Directional control with a maintained asymmetric collapse</b>	<b>A</b>			
Able to keep course	Yes	A	Yes	A
180° turn away from the collapsed side possible in 10 s	Yes	A	Yes	A
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	A	More than 50 % of the symmetric control travel	A
<b>16. Trim speed spin tendency</b>	<b>A</b>			
Spin occurs	No	A	No	A
<b>17. Low speed spin tendency</b>	<b>A</b>			
Spin occurs	No	A	No	A
<b>18. Recovery from a developed spin</b>	<b>B</b>			
Spin rotation angle after release	Stops spinning in 90° to 180°	B	Stops spinning in less than 90°	A
Cascade occurs	No	A	No	A
<b>19. B-line stall</b>	<b>0</b>			
Change of course before release	not available	0	not available	0
Behaviour before release	not available	0	not available	0
Recovery	not available	0	not available	0
Dive forward angle on exit	not available	0	not available	0
Cascade occurs	not available	0	not available	0
<b>20. Big ears</b>	<b>A</b>			
Entry procedure	Dedicated controls	A	Dedicated controls	A
Behaviour during big ears	Stable flight	A	Stable flight	A
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
<b>21. Big ears in accelerated flight</b>	<b>0</b>			
Entry procedure	not available	0	not available	0
Behaviour during big ears	not available	0	not available	0
Recovery	not available	0	not available	0
Dive forward angle on exit	not available	0	not available	0
Behaviour immediately after releasing the accelerator while maintaining big ears	not available	0	not available	0
<b>22. Alternative means of directional control</b>	<b>A</b>			
180° turn achievable in 20 s	Yes	A	Yes	A
Stall or spin occurs	No	A	No	A
<b>23. Any other flight procedure and/or configuration described in the user's manual</b>	<b>0</b>			
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