


GIN ELISE XXS

Type designation	GIN Elise XXS	
Type test reference no	DHV GS-01-3026-25	
Holder of certification	GIN Gliders Inc.	
Manufacturer	GIN Gliders Inc.	
Classification	A	
Winch towing	Yes	
Number of seats min / max	1 / 1	
Accelerator	Yes	
Trimmers	No	



	BEHAVIOUR AT MIN WEIGHT IN FLIGHT (55KG)	BEHAVIOUR AT MAX WEIGHT IN FLIGHT (75KG)
Test pilots	 Juliette Schönsee	 Josef Bauer
Inflation/take-off	No release	No release
Rising behaviour	Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off technique required	No	No
Landing	No	No
Special landing technique required	No	No
Speeds in straight flight	Yes	Yes
Trim speed more than 30 km/h	Yes	Yes
Speed range using the controls larger than 10 km/h	Yes	Yes
Minimum speed	Less than 25 km/h	Less than 25 km/h
Control movement	Increasing	Increasing
Symmetric control pressure	Greater than 55 cm	Greater than 55 cm
Symmetric control travel	Greater than 55 cm	Greater than 55 cm
Pitch stability exiting accelerated flight	Dive forward less than 30°	Dive forward less than 30°
Dive forward angle on exit	No	No
Collapse occurs	No	No
Pitch stability operating controls during accelerated flight	No	No
Collapse occurs	No	No
Roll stability and damping	Reducing	Reducing
Oscillations	Reducing	Reducing
Stability in gentle spirals	Spontaneous exit	Spontaneous exit
Tendency to return to straight flight	Spontaneous exit	Spontaneous exit
Behaviour exiting a fully developed spiral dive	Immediate reduction of rate of turn	Immediate reduction of rate of turn
Initial response of glider (first 180°)	Spontaneous exit (g force decreasing, rate of turn decreasing)	Spontaneous exit (g force decreasing, rate of turn decreasing)
Tendency to return to straight flight	Less than 720°, spontaneous recovery	Less than 720°, spontaneous recovery
Turn angle to recover normal flight	Rocking back less than 45°	Rocking back less than 45°
Symmetric front collapse	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Entry	Dive forward 0° to 30°	Dive forward 0° to 30°
Recovery	Keeping course	Keeping course
Dive forward angle on exit	No	No
Change of course	no	no
Cascade occurs	no	no
Folding lines used	no	no
Unaccelerated collapse (at least 50 % chord)	Rocking back less than 45°	Rocking back less than 45°
Entry	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Recovery	Dive forward 0° to 30°	Dive forward 0° to 30°
Dive forward angle on exit	Keeping course	Keeping course
Change of course	No	No
Cascade occurs	no	no
Folding lines used	no	no
Accelerated collapse (at least 50 % chord)	Rocking back less than 45°	Rocking back less than 45°
Entry	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Recovery	Dive forward 0° to 30°	Dive forward 0° to 30°
Dive forward angle on exit	Keeping course	Keeping course
Change of course	No	No
Cascade occurs	no	no
Folding lines used	no	no
Exiting deep stall (parachutal stall)	Yes	Yes
Deep stall achieved	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Recovery	Dive forward 0° to 30°	Dive forward 0° to 30°
Dive forward angle on exit	Changing course less than 45°	Changing course less than 45°
Change of course	No	No
Cascade occurs	No	No
High angle of attack recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Recovery	No	No
Cascade occurs	No	No
Recovery from a developed full stall	Dive forward 0° to 30°	Dive forward 0° to 30°
Dive forward angle on exit	No collapse	No collapse
Collapse	No	No
Cascade occurs (other than collapses)	Less than 45°	Less than 45°
Rocking back	Most lines tight	Most lines tight
Line tension	Less than 90°	Less than 90°
Small asymmetric collapse	Dive or roll angle 15° to 45°	Dive or roll angle 0° to 15°
Change of course until re-inflation	Spontaneous re-inflation	Spontaneous re-inflation
Maximum dive forward or roll angle	Less than 360°	Less than 360°
Re-inflation behaviour	No (or only a small number of collapsed cells with a spontaneous re inflation)	No (or only a small number of collapsed cells with a spontaneous re inflation)
Total change of course	No	No
Collapse on the opposite side occurs	No	No
Twist occurs	No	No
Cascade occurs	no	no
Folding lines used	no	no
Large asymmetric collapse	Less than 90°	Less than 90°
Change of course until re-inflation	Dive or roll angle 15° to 45°	Dive or roll angle 15° to 45°
Maximum dive forward or roll angle	Spontaneous re-inflation	Spontaneous re-inflation
Re-inflation behaviour	Less than 360°	Less than 360°
Total change of course	No (or only a small number of collapsed cells with a spontaneous re inflation)	No (or only a small number of collapsed cells with a spontaneous re inflation)
Collapse on the opposite side occurs	No	No
Twist occurs	No	No
Cascade occurs	no	no
Folding lines used	no	no
Small asymmetric collapse accelerated	Less than 90°	Less than 90°
Change of course until re-inflation	Dive or roll angle 15° to 45°	Dive or roll angle 15° to 45°
Maximum dive forward or roll angle	Spontaneous re-inflation	Spontaneous re-inflation
Re-inflation behaviour	Less than 360°	Less than 360°
Total change of course	No (or only a small number of collapsed cells with a spontaneous re inflation)	No (or only a small number of collapsed cells with a spontaneous re inflation)
Collapse on the opposite side occurs	No	No
Twist occurs	No	No
Cascade occurs	no	no
Folding lines used	no	no
Large asymmetric collapse accelerated	Less than 90°	Less than 90°
Change of course until re-inflation	Dive or roll angle 15° to 45°	Dive or roll angle 15° to 45°
Maximum dive forward or roll angle	Spontaneous re-inflation	Spontaneous re-inflation
Re-inflation behaviour	Less than 360°	Less than 360°
Total change of course	No (or only a small number of collapsed cells with a spontaneous re inflation)	No (or only a small number of collapsed cells with a spontaneous re inflation)
Collapse on the opposite side occurs	No	No
Twist occurs	No	No
Cascade occurs	no	no
Folding lines used	no	no
Directional control with a maintained asymmetric collapse	Yes	Yes
Able to keep course	Yes	Yes
180° turn away from the collapsed side possible in 10 s	More than 50 % of the symmetric control travel	More than 50 % of the symmetric control travel
Amount of control range between turn and stall or spin	No	No
Trim speed spin tendency	No	No
Spin occurs	No	No
Low speed spin tendency	No	No
Spin occurs	No	No
Recovery from a developed spin	Stops spinning in less than 90°	Stops spinning in less than 90°
Spin rotation angle after release	No	No
Cascade occurs	Changing course less than 45°	Changing course less than 45°
B-line stall	Remains stable with straight span	Remains stable with straight span
Change of course before release	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Behaviour before release	Dive forward 0° to 30°	Dive forward 0° to 30°
Recovery	No	No
Dive forward angle on exit	No	No
Cascade occurs	Standard technique	Standard technique
Big ears	Stable flight	Stable flight
Entry procedure	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Behaviour during big ears	Dive forward 0° to 30°	Dive forward 0° to 30°
Recovery	Standard technique	Standard technique
Entry procedure	Stable flight	Stable flight
Behaviour during big ears	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Recovery	Dive forward 0° to 30°	Dive forward 0° to 30°
Dive forward angle on exit	Stable flight	Stable flight
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Stable flight
Alternative means of directional control	Yes	Yes
180° turn achievable in 20 s	No	No
Stall or spin occurs	No	No
Any other flight procedure and/or configuration described in the user's manual	No other flight procedure or configuration described in the user's manual	