

TEST REPORT LTF 2024-2-785 / EN 926-2:2013+A1:2021

GIN BANDIT 2 M

Type designation	GIN Bandit 2 M
Type test reference no	DHV GS-01-3055-25
Holder of certification	GIN Gliders Inc.
Manufacturer	GIN Gliders Inc.
Classification	B
Winch towing	Yes
Number of seats min / max	1 / 1
Accelerator	Yes
Trimmers	No



	BEHAVIOUR AT MIN WEIGHT IN FLIGHT (85KG)	BEHAVIOUR AT MAX WEIGHT IN FLIGHT (105KG)
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Test pilots		
	Josef Bauer	Mario Eder
	No release	No release

Inflation/take-off	:B	:B
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Rising behaviour	Easy rising, some pilot correction is required	Easy rising, some pilot correction is required
Special take off technique required	No	No

Landing	:A	:A
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Special landing technique required	No	No
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Speeds in straight flight	:A	:B
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Trim speed more than 30 km/h	Yes	Yes
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Speed range using the controls larger than 10 km/h	Yes	Yes
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Minimum speed	Less than 25 km/h	25 km/h to 30 km/h
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Control movement	:A	:A
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Symmetric control pressure	Increasing	Increasing
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Symmetric control travel	Greater than 60 cm	Greater than 65 cm
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Pitch stability exiting accelerated flight	:A	:A
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Dive forward angle on exit	Dive forward less than 30°	Dive forward less than 30°
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Collapse occurs	No	No
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Pitch stability operating controls during accelerated flight	:A	:A
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Collapse occurs	No	No
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Roll stability and damping	:A	:A
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Oscillations	Reducing	Reducing
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Stability in gentle spirals	:A	:A
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Tendency to return to straight flight	Spontaneous exit	Spontaneous exit
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Behaviour exiting a fully developed spiral dive	:A	:A
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Initial response of glider (first 180°)	Immediate reduction of rate of turn	Immediate reduction of rate of turn
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Tendency to return to straight flight	Spontaneous exit (g force decreasing, rate of turn decreasing)	Spontaneous exit (g force decreasing, rate of turn decreasing)
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Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Less than 720°, spontaneous recovery
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Symmetric front collapse	:B	:B
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Entry	Rocking back less than 45°	Rocking back less than 45°
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Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
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Dive forward angle on exit	Dive forward 30° to 60°	Dive forward 30° to 60°
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Change of course	Entering a turn of less than 90°	Keeping course
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Cascade occurs	No	No
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Folding lines used	no	no
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Unaccelerated collapse (at least 50 % chord)	:B	:B
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Entry	Rocking back less than 45°	Rocking back less than 45°
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Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
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Dive forward angle on exit	Dive forward 30° to 60°	Dive forward 30° to 60°
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Change of course	Entering a turn of less than 90°	Entering a turn of less than 90°
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Cascade occurs	No	No
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Folding lines used	no	no
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Accelerated collapse (at least 50 % chord)	:B	:B
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Entry	Rocking back less than 45°	Rocking back less than 45°
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Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
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Dive forward angle on exit	Dive forward 30° to 60°	Dive forward 30° to 60°
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Change of course	Keeping course	Entering a turn of less than 90°
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Cascade occurs	No	No
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Folding lines used	no	no
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Exiting deep stall (parachutal stall)	:B	:B
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Deep stall achieved	Yes	Yes
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Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
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Dive forward angle on exit	Dive forward 30° to 60°	Dive forward 30° to 60°
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Change of course	Changing course less than 45°	Changing course less than 45°
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Cascade occurs	No	No
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High angle of attack recovery	:A	:A
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Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
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Cascade occurs	No	No
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Recovery from a developed full stall	:B	:B
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Dive forward angle on exit	Dive forward 30° to 60°	Dive forward 30° to 60°
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Collapse	No collapse	No collapse
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Cascade occurs (other than collapses)	No	No
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Rocking back	Less than 45°	Less than 45°
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Line tension	Most lines tight	Most lines tight
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Small asymmetric collapse	:A	:A
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Change of course until re-inflation	Less than 90°	Less than 90°
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Maximum dive forward or roll angle	Dive or roll angle 15° to 45°	Dive or roll angle 15° to 45°
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Re-inflation behaviour	Spontaneous re-inflation	Spontaneous re-inflation
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Total change of course	Less than 360°	Less than 360°
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Collapse on the opposite side occurs	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)
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Twist occurs	No	No
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Cascade occurs	No	No
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Folding lines used	no	no
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Large asymmetric collapse	:B	:B
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Change of course until re-inflation	90° to 180°	90° to 180°
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Maximum dive forward or roll angle	Dive or roll angle 15° to 45°	Dive or roll angle 15° to 45°
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Re-inflation behaviour	Spontaneous re-inflation	Spontaneous re-inflation
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Total change of course	Less than 360°	Less than 360°
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Collapse on the opposite side occurs	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)
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Twist occurs	No	No
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Cascade occurs	No	No
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Folding lines used	no	no
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Small asymmetric collapse accelerated	:B	:A
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Change of course until re-inflation	90° to 180°	Less than 90°
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Maximum dive forward or roll angle	Dive or roll angle 15° to 45°	Dive or roll angle 15° to 45°
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Re-inflation behaviour	Spontaneous re-inflation	Spontaneous re-inflation
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Total change of course	Less than 360°	Less than 360°
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Collapse on the opposite side occurs	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)
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Twist occurs	No	No
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Cascade occurs	No	No
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Folding lines used	no	no
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Large asymmetric collapse accelerated	:B	:B
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Change of course until re-inflation	90° to 180°	90° to 180°
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Maximum dive forward or roll angle	Dive or roll angle 15° to 45°	Dive or roll angle 15° to 45°
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Re-inflation behaviour	Spontaneous re-inflation	Spontaneous re-inflation
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Total change of course	Less than 360°	Less than 360°
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Collapse on the opposite side occurs	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)
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Twist occurs	No	No
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Cascade occurs	No	No
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Folding lines used	no	no
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Directional control with a maintained asymmetric collapse	:A	:A
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Able to keep course	Yes	Yes
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180° turn away from the collapsed side possible in 10 s	Yes	Yes
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Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	More than 50 % of the symmetric control travel
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Trim speed spin tendency	:A	:A
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Spin occurs	No	No
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Low speed spin tendency	:A	:A
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Spin occurs	No	No
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Recovery from a developed spin	:A	:A
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Spin rotation angle after release	Stops spinning in less than 90°	Stops spinning in less than 90°
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Cascade occurs	No	No
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B-line stall	:A	:A
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Change of course before release	Changing course less than 45°	Changing course less than 45°
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Behaviour before release	Remains stable with straight span	Remains stable with straight span
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Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
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Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 30° to 60°
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Cascade occurs	No	No
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Big ears	:A	:A
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Entry procedure	Standard technique	Standard technique
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Behaviour during big ears	Stable flight	Stable flight
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Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
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Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
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Big ears in accelerated flight	:A	:A
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Entry procedure	Standard technique	Standard technique
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Behaviour during big ears	Stable flight	Stable flight
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Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
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Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
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Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Stable flight
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Alternative means of directional control	:A	:A
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180° turn achievable in 20 s	Yes	Yes
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Stall or spin occurs	No	No
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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	
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