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DHV-tested Equipment

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TECHNICAL DATA

DHV TESTREPORT LTF

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



UP K2 5 38

Type designation	UP K2 5 38
Type test reference no	DHV GS-01-3052-26
Holder of certification	UP International GmbH
Manufacturer	UP International GmbH
Classification	B
Winch towing	Yes
Number of seats min / max	1, 2 / 1, 2
Accelerator	No
Trimmers	Yes



	BEHAVIOUR AT MIN WEIGHT IN FLIGHT (95KG)	BEHAVIOUR AT MAX WEIGHT IN FLIGHT (195KG)
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Test pilots		
	Harald Buntz	Mario Eder

	No release	No release
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Inflation/take-off	A	B
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Rising behaviour	Smooth, easy and constant rising	Easy rising, some pilot correction is required
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Special take off technique required	No	No
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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

Not carried out because the glider is not equipped with an accelerator

Pitch stability operating controls during accelerated flight

Not carried out because the glider is not equipped with an accelerator

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	B
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Initial response of glider (first 180°)	Immediate reduction of rate of turn	en : keine unmittelbare Reaktion
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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	A	A
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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 0° to 30°	Dive forward 0° to 30°
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Change of course	Keeping course	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	A
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Entry	Rocking back less than 45°	Rocking back less than 45°
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Recovery	Spontaneous in 3 s to 5 s	Spontaneous in less than 3 s
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Dive forward angle on exit	Dive forward 30° to 60°	Dive forward 0° to 30°
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Change of course	Keeping course	Keeping course
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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)

Not carried out because the glider is not equipped with an accelerator

Exiting deep stall (parachutal stall)		A	B
Deep stall achieved		Yes	Yes
Recovery		Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit		Dive forward 0° to 30°	Dive forward 30° to 60°
Change of course		Changing course less than 45°	Changing course less than 45°
Cascade occurs		No	No
High angle of attack recovery		A	A
Recovery		Spontaneous in less than 3 s	Spontaneous in less than 3 s
Cascade occurs		No	No
Recovery from a developed full stall		A	B
Dive forward angle on exit		Dive forward 0° to 30°	Dive forward 30° to 60°
Collapse		No collapse	No collapse
Cascade occurs (other than collapses)		No	No
Rocking back		Less than 45°	Less than 45°
Line tension		Most lines tight	Most lines tight
Small asymmetric collapse		A	A
Change of course until re-inflation		Less than 90°	Less than 90°
Maximum dive forward or roll angle		Dive or roll angle 0° to 15°	Dive or roll angle 15° to 45°
Re-inflation behaviour		Spontaneous re-inflation	Spontaneous re-inflation
Total change of course		Less than 360°	Less than 360°
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)
Twist occurs		No	No
Cascade occurs		No	No
Folding lines used		no	no
Large asymmetric collapse		B	B
Change of course until re-inflation		90° to 180°	90° to 180°
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°	Dive or roll angle 15° to 45°
Re-inflation behaviour		Spontaneous re-inflation	Spontaneous re-inflation
Total change of course		Less than 360°	Less than 360°
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)
Twist occurs		No	No
Cascade occurs		No	No
Folding lines used		no	no
Small asymmetric collapse accelerated			
Not carried out because the glider is not equipped with an accelerator			
Large asymmetric collapse accelerated			
Not carried out because the glider is not equipped with an accelerator			
Directional control with a maintained asymmetric collapse		A	A
Able to keep course		Yes	Yes
180° turn away from the collapsed side possible in 10 s		Yes	Yes
Amount of control range between turn and stall or spin travel		More than 50 % of the symmetric control	More than 50 % of the symmetric control travel
Trim speed spin tendency		A	A
Spin occurs		No	No
Low speed spin tendency		A	A
Spin occurs		No	No
Recovery from a developed spin		B	A
Spin rotation angle after release		Stops spinning in 90° to 180°	Stops spinning in less than 90°
Cascade occurs		No	No
B-line stall			
Not carried out because the manoeuvre is excluded in the user's manual			
Big ears		A	A
Entry procedure		Standard technique	Standard technique
Behaviour during big ears		Stable flight	Stable flight
Recovery		Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit		Dive forward 0° to 30°	Dive forward 0° to 30°
Big ears in accelerated flight			
Not carried out because the glider is not equipped with an accelerator			
Alternative means of directional control		A	A
180° turn achievable in 20 s		Yes	Yes
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			