TECHNICAL DATA DHV TESTREPORT LTF DHV TESTREPORT EN DATASHEET PRINT







## TESTREPORT EN 926-2:2013+A1:2021

**ZOOM XA LT 75** 

Inflation/take-off

Type designation ZOOM XA LT 75

Type test reference no DHV GS-01-2975-25

Holder of certification Papesh GmbH

Manufacturer Papesh GmbH

**Classification** A

Winch towing Yes

Number of seats min / max 1/1

**Accelerator** Yes

Trimmers No



WEIGHT IN FLIGHT (90KG)

Smooth, easy and constant rising

BEHAVIOUR AT MIN WEIGHT IN FLIGHT (55KG) **Test pilots** 



No release

No release

Josef Bauer

Rising behaviour Smooth, easy and constant rising

Juliette Schönsee

Special take off technique required No

No

Yes

Landing Α

Special landing technique required No

Speeds in straight flight A

Trim speed more than 30 km/h Yes

Minimum speed Less than 25 km/h

Speed range using the controls larger than 10 Yes km/h

Less than 25 km/h

Control movement A

Symmetric control pressure Increasing

**Symmetric control travel** Greater than 55 cm Greater than 60 cm

Pitch stability exiting accelerated flight

Dive forward less than 30°

Collapse occurs No

Pitch stability operating controls during

**Dive forward angle on exit** Dive forward less than 30°

accelerated flight

Collapse occurs No

Roll stability and damping

**Oscillations** Reducing Reducing

Stability in gentle spirals A

Tendency to return to straight flight Spontaneous exit Spontaneous exit

Behaviour exiting a fully developed spiral dive A

Initial response of glider (first 180°) Immediate reduction of rate of turn Tendency to return to straight flight Spontaneous exit (g force decreasing,

rate of turn decreasing)

Turn angle to recover normal flight Less than 720°, spontaneous recovery

Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous recovery

Symmetric front collapse	A	A
Entry	Rocking back less than 45°	Rocking back less than 45°
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°
Change of course	Keeping course	Keeping course
Cascade occurs	No	No
Folding lines used	no	no
Unaccelerated collapse (at least 50 % chord)	A	Α
Entry	Rocking back less than 45°	Rocking back less than 45°
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°
Change of course	Keeping course	Keeping course
Cascade occurs	No	No
Folding lines used	no	no
Accelerated collapse (at least 50 % chord)	A	A
Entry	Rocking back less than 45°	Rocking back less than 45°
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	•	Dive forward 0° to 30°
Change of course	Keeping course	Keeping course
Cascade occurs		No
Folding lines used	no	no
Exiting deep stall (parachutal stall)	A	lA.
	i	Yes
Deep stall achieved	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	•	Dive forward 0° to 30°
_	Changing course less than 45°	Changing course less than 45°
Cascade occurs		No
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Recovery Cascade occurs	Spontaneous in less than 3 s	.4
Recovery Cascade occurs Recovery from a developed full stall	Spontaneous in less than 3 s No	Spontaneous in less than 3 s No
Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit	Spontaneous in less than 3 s No  A  Dive forward 0° to 30°	Spontaneous in less than 3 s No  A  Dive forward 0° to 30°
Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse
Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses)	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse No	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse No
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Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse No Less than 45° Most lines tight	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse No Less than 45° Most lines tight
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Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension Small asymmetric collapse Change of course until re-inflation Maximum dive forward or roll angle	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse No Less than 45° Most lines tight  A  Less than 90°	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No  Less than 45°  Most lines tight  A  Less than 90°
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Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension Small asymmetric collapse Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No  Less than 45°  Most lines tight  A  Less than 90°  Dive or roll angle 0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous re inflation)  No  No	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No Less than 45°  Most lines tight  A  Less than 90°  Dive or roll angle 0° to 15°  Spontaneous re-inflation Less than 360°  No (or only a small number of collapsed cells with a spontaneous re inflation)
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Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension Small asymmetric collapse  Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs  Twist occurs Cascade occurs Folding lines used	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No  Less than 45°  Most lines tight  A  Less than 90°  Dive or roll angle 0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous re inflation)  No  No  No  No  No  Less than 90°	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse No Less than 45° Most lines tight  A  Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneo re inflation) No No No
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Twist occurs No No
Cascade occurs No No
Folding lines used no no

Folding lines used	l no	no
Small asymmetric collapse accelerated	A	A
Change of course until re-inflation	Loca than 000	Less than 90°
_		
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°
	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course		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	s No	No
Cascade occurs	s No	No
Folding lines used	no	no
Large asymmetric collapse accelerated	A	A
Change of course until re-inflation	Less than 90°	Less than 90°
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°
	Spontaneous re-inflation	Spontaneous re-inflation
	•	Less than 360°
Total change of course		2000 1.10.1 000
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	s No	No
Cascade occurs	: No	No
Folding lines used	no	no
Directional control with a maintained asymmetric collapse	A	А
Able to keep course	Yes	Yes
180° turn away from the collapsed side	Yes	Yes
possible in 10 s	:	
Amount of control range between turn and	More than 50 % of the symmetric control	More than 50 % of the symmetric
stall or spin		control travel
stall or spin	travel	control travel
stall or spin	travel	control travel
stall or spin  Trim speed spin tendency  Spin occurs	kravel A No	A No
Stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs	iravel A No No No	Control travel  A  No  A  No
Stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin	A No A No	Control travel  A  No  No  A
Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release	Kravel  A  No  A  No  Solution  A  Stops spinning in less than 90°	control travel  A  No  A  No  Stops spinning in less than 90°
Stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin	Kravel  A  No  A  No  Solution  A  Stops spinning in less than 90°	Control travel  A  No  No  A
Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release  Cascade occurs	A  No  A  No  A  Stops spinning in less than 90°  No	control travel  A  No  A  No  Stops spinning in less than 90°  No
Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release  Cascade occurs	A No A No A Stops spinning in less than 90° No	Control travel  A  No  A  No  A  Stops spinning in less than 90°  No
Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release  Cascade occurs  B-line stall  Change of course before release	A No A No A Stops spinning in less than 90° No A Changing course less than 45°	Control travel  A  No  A  No  Stops spinning in less than 90°  No
Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release  Cascade occurs  B-line stall  Change of course before release	A No A No A Stops spinning in less than 90° No	Control travel  A  No  A  No  A  Stops spinning in less than 90°  No
Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release  Cascade occurs  B-line stall  Change of course before release  Behaviour before release	A No A No A Stops spinning in less than 90° No A Changing course less than 45°	control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°
Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release  Cascade occurs  B-line stall  Change of course before release  Behaviour before release	A  No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s	Control travel  A  No  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span
Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery	A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s  Dive forward 0° to 30°	Control travel  A  No  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s
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Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs	A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°  No  A  Standard technique	control travel  A  No  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°  No  A  Standard technique
Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure Behaviour during big ears	A  No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A  Standard technique Stable flight	control travel  A  No  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s  Dive forward 0° to 30°  No  A  Standard technique Stable flight
Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure Behaviour during big ears Recovery	A  No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A  Standard technique Stable flight Spontaneous in less than 3 s	control travel  A  No  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s  Dive forward 0° to 30°  No  A  Standard technique Stable flight Spontaneous in less than 3 s
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Dive forward angle on exit Dive forward 0° to 30°

Behaviour immediately after releasing the Stable flight accelerator while maintaining big ears

Stall or spin occurs No

Dive forward 0° to 30°

Stable flight

No

Alternative means of directional control A

180° turn achievable in 20 s Yes

Yes

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