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TESTREPORT LTF 2014

DHV-tested Equipment | Flying Equipment Database

Manufacturers / Dealers

Flying Schools

Deutscher Hängegleiterverband e.V.

TECHNICAL DATA DHY TESTREPORT LTF DHY TESTREPORT EN DATASHEET PARTS LIST OPERATING INSTRUCTION PRINT



ZOOM X2C 105

Inflation/take-off

Landing

Type designation ZOOM X2C 105

Type test reference no DHV GS-01-2847-23

Holder of certification Papesh GmbH

Manufacturer Papesh GmbH

Classification D

Winch towing Yes

Number of seats min / max 1 / 1

Accelerator Yes

Trimmers No.



BEHAVIOUR AT MIN WEIGHT IN BEHAVIOUR AT MAX FLIGHT (85KG) **WEIGHT IN FLIGHT (107KG)**

Test pilots



No release

Rising behaviour Easy rising, some pilot correction is

required

Special take off technique required No

Mario Eder

to avoid a front collapse

No release

Overshoots, shall be slowed down

Yes

Nο

No

Special landing technique required No

В

Speeds in straight flight A

Trim speed more than 30 km/h Yes Yes

Speed range using the controls larger than 10 Yes

km/h

Minimum speed Less than 25 km/h

25 km/h to 30 km/h

Dive forward less than 30°

Control movement

Symmetric control pressure Approximately constant Increasing Symmetric control travel 45 cm to 60 cm 50 cm to 65 cm

Pitch stability exiting accelerated flight

Dive forward angle on exit Dive forward less than 30°

Collapse occurs No

Pitch stability operating controls during accelerated flight

Collapse occurs No

Roll stability and damping

Oscillations Reducing Reducina

Stability in gentle spirals A

Tendency to return to straight flight Spontaneous exit Spontaneous exit

Behaviour exiting a fully developed spiral dive B

Initial response of glider (first 180°) en : keine unmittelbare Reaktion 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

en : keine unmittelbare Reaktion Spontaneous exit (g force decreasing, rate of turn decreasing) 720° to 1 080°, spontaneous recovery

Symmetric front collapse

Entry Rocking back less than 45° Rocking back less than 45° **Recovery** Spontaneous in less than 3 s Spontaneous in 3 s to 5 s Dive forward angle on exit Dive forward 0° to 30° Dive forward 0° to 30° Change of course Keeping course Entering a turn of less than 90° Cascade occurs No Folding lines used yes Unaccelerated collapse (at least 50 % chord) D Entry Rocking back less than 45° Rocking back less than 45° **Recovery** Spontaneous in less than 3 s Spontaneous in 3 s to 5 s **Dive forward angle on exit** Dive forward 30° to 60° Dive forward 0° to 30° Change of course Keeping course Entering a turn of less than 90° Cascade occurs No Folding lines used yes Accelerated collapse (at least 50 % chord) D 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 30° to 60° Dive forward 0° to 30° Change of course Entering a turn of less than 90° Entering a turn of less than 90° Cascade occurs No. Folding lines used yes ves Exiting deep stall (parachutal stall) Deep stall achieved Yes Recovery Spontaneous in less than 3 s Spontaneous in less than 3 s Dive forward angle on exit Dive forward 30° to 60° Dive forward 0° to 30° Change of course Changing course less than 45° Changing course less than 45° Cascade occurs No High angle of attack recovery **Recovery** Spontaneous in less than 3 s Spontaneous in less than 3 s Cascade occurs No Recovery from a developed full stall B Dive forward angle on exit Dive forward 30° to 60° Dive forward 0° to 30° Collapse No collapse No collapse Cascade occurs (other than collapses) No Rocking back Less than 45° Less than 45° Line tension Most lines tight Most lines tight Small asymmetric collapse D 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° Spontaneous re-inflation Re-inflation behaviour Inflates in less than 3 s from start of pilot action Total change of course Less than 360° Less than 360° Collapse on the opposite side occurs No (or only a small number of collapsed No (or only a small number of collapsed cells with a spontaneous cells with a spontaneous re inflation) re inflation) Twist occurs No No Nο Cascade occurs No. Folding lines used yes Large asymmetric collapse D Change of course until re-inflation 90° to 180° 90° to 180° Maximum dive forward or roll angle Dive or roll angle 45° to 60° 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 No (or only a small number of cells with a spontaneous re inflation) collapsed cells with a spontaneous re inflation) Twist occurs No Nο Cascade occurs No No Folding lines used ves Small asymmetric collapse accelerated D Change of course until re-inflation Less than 90° Maximum dive forward or roll angle Dive or roll angle 15° to 45° Dive or roll angle 15° to 45° Re-inflation behaviour Inflates in less than 3 s from start of Spontaneous re-inflation pilot action Total change of course Less than 360° Less than 360° Collapse on the opposite side occurs No (or only a small number of collapsed No (or only a small number of cells with a spontaneous re inflation) collapsed cells with a spontaneous re inflation) Twist occurs No Nο Cascade occurs No No

Folding lines used yes

Large asymmetric collapse accelerated D Change of course until re-inflation 90° to 180° 90° to 180° Maximum dive forward or roll angle Dive or roll angle 45° to 60° Dive or roll angle 15° to 45° Re-inflation behaviour Inflates in less than 3 s from start of Spontaneous re-inflation pilot action Total change of course Less than 360° Less than 360° Collapse on the opposite side occurs No (or only a small number of collapsed No (or only a small number of cells with a spontaneous re inflation) collapsed cells with a spontaneous re inflation) Twist occurs No Cascade occurs No Nο Folding lines used yes yes Directional control with a maintained C asymmetric collapse Able to keep course 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 25 % to 50 % of the symmetric stall or spin travel control travel Trim speed spin tendency A Spin occurs No Low speed spin tendency A Spin occurs No Recovery from a developed spin Α Spin rotation angle after release Stops spinning in less than 90° Stops spinning in less than 90° Cascade occurs No B-line stall Not carried out because the manoeuvre is excluded in the user's manual Entry procedure Standard technique Standard technique Behaviour during big ears Stable flight Stable flight **Recovery** Spontaneous in less than 3 s Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Dive forward angle on exit Dive forward 0° to 30° Big ears in accelerated flight Entry procedure Standard technique Standard technique Behaviour during big ears Stable flight Stable flight Recovery Recovery through pilot action in less than Recovery through pilot action in less a further 3 s than a further 3 s Dive forward angle on exit Dive forward 0° to 30° Dive forward 0° to 30° Behaviour immediately after releasing the Stable flight Stable flight accelerator while maintaining big ears Alternative means of directional control 180° turn achievable in 20 s Yes Stall or spin occurs 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