H V Е R 0 0

SKYWALK P O I S O N 3

Type designation Skywalk Poison3 XS

Type test reference no DHV GS-01-1933-11

Holder of certification Skywalk GmbH & Co. KG Manufacturer Skywalk GmbH & Co. KG

Classification D

Winch towing Yes

Number of seats min / max $\ 1\ /\ 1$

Accelerator Yes

Trimmers No



Test pilots





	Beni Stocker	Harry Buntz
Inflation/take-off	A	A
Rising behaviour	Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off technique required	. , ,	No
·		
Landing	A	A
Special landing technique required	No	No
Special failuring technique required	No	110
Speeds in straight flight	A	A
Trim speed more than 30 km/h		Yes
Speed range using the controls larger than 10		Yes
km/h		165
Minimum speed	Less than 25 km/h	Less than 25 km/h
Control movement	c	С
Symmetric control pressure	Increasing	Increasing
Symmetric control travel		45 cm to 60 cm
,		
Pitch stability exiting accelerated flight	A	A
Dive forward angle on exit	Dive forward less than 30°	Dive forward less than 30°
Collapse occurs		No
conapse occars	110	110
Pitch stability operating controls during accelerated flight	A	A
Collapse occurs	No	No
conapse occurs	No	110
Roll stability and damping	A	A
Oscillations	Reducing	Reducing
Stability in gentle spirals	A	A
		<u> </u>
Tendency to return to straight flight	Spontaneous exit	Spontaneous exit
Behaviour in a steeply banked turn	A	A
Sink rate after two turns	12 m/s to 14 m/s	12 m/s to 14 m/s
	12, 5 to 1, 5	12, 5 to 1, 5
Symmetric front collapse	В	С
	Rocking back less than 45°	Rocking back greater than 45°
·	Spontaneous in 3 s to 5 s	Spontaneous in 3 s to 5 s
Dive forward angle on exit	•	Dive forward 30° to 60°
	Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occurs	-	No
	·	<u> </u>
Symmetric front collapse in accelerated flight	В	С
	Profiles had been the a 450	Profite had a sale that 450

Pasausanu	Constanceus in 2 c to F c	Constance is less than 2 c
Dive forward angle on exit	Spontaneous in 3 s to 5 s Dive forward 30° to 60°	Spontaneous in less than 3 s Dive forward 30° to 60°
_	Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occurs	•	No
Exiting deep stall (parachutal stall)	A	A
Deep stall achieved	Yes	Yes
· · · · · · · · · · · · · · · · · · ·	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	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	В	В
Dive forward angle on exit	Dive forward 30° to 60°	Dive forward 30° to 60°
	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
Asymmetric collapse 45-50%	В	c
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°
Re-inflation behaviour	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course		Less than 360°
Collapse on the opposite side occurs	No	Yes, no turn reversal
Twist occurs		No
Cascade occurs	No	No
	_	12
Asymmetric collapse 70-75%	D	¦D
Change of course until re-inflation		90° to 180°
Maximum dive forward or roll angle	-	Dive or roll angle 45° to 60°
Re-inflation behaviour	·	Spontaneous re-inflation
Total change of course		Less than 360°
Collapse on the opposite side occurs	· · · · · · · · · · · · · · · · · · ·	Yes, causing turn reversal
Twist occurs Cascade occurs		No No
Cascade occurs	NO	No
Asymmetric collapse 45-50% in accelerated flight	D	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°
Re-inflation behaviour	-	Spontaneous re-inflation
Total change of course	•	Less than 360°
Collapse on the opposite side occurs	Yes, causing turn reversal	Yes, causing turn reversal
Twist occurs	No	No
Cascade occurs	No	No
Asymmetric collapse 70-75% in accelerated flight	D	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 45° to 60°
Re-inflation behaviour		Spontaneous re-inflation
Total change of course		Less than 360°
Collapse on the opposite side occurs		Yes, causing turn reversal
Twist occurs		No
Cascade occurs	NO	No
Directional control with a maintained asymmetric collapse	A	A
Able to keep course	Yes	Yes
180° turn away from the collapsed side possible		Yes
in 10 s		
	More than 50 % of the symmetric control	More than 50 % of the symmetric control travel
in 10 s Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	control travel
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in 10 s Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	control travel
in 10 s Amount of control range between turn and stall or spin Trim speed spin tendency Spin occurs	More than 50 % of the symmetric control travel A	control travel
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in 10 s Amount of control range between turn and stall or spin Trim speed spin tendency Spin occurs Low speed spin tendency Spin occurs	More than 50 % of the symmetric control travel A No No	control travel A No No
in 10 s Amount of control range between turn and stall or spin Trim speed spin tendency Spin occurs Low speed spin tendency Spin occurs	More than 50 % of the symmetric control travel A No	control travel A No

Cascade occurs	No	No
		,
B-line stall	c	A
Change of course before release	Changing course less than 45°	Changing course less than 45°
Behaviour before release	Remains stable without straight span	Remains stable with straight span
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°
Cascade occurs	No	No
<u>Big ears</u>	В	c
Entry procedure	Standard technique	Standard technique
Behaviour during big ears	Stable flight	Unstable flight
Recovery	Recovery through pilot action in less than a further 3 $\ensuremath{\text{s}}$	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	В	c
Entry procedure	Standard technique	Standard technique
Behaviour during big ears	Stable flight	Unstable flight
Recovery	Recovery through pilot action in less than a further 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
Behaviour immediately after releasing the accelerator while maintaining big ears		Stable flight
Behaviour exiting a steep spiral	A	A
Tendency to return to straight flight	Spontaneous exit	Spontaneous exit
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Less than 720°, spontaneous recovery
Sink rate when evaluating spiral stability [m/s]	14	14
		,
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	

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