NHV	DHV-tested Equipment	Flying Equipment Database	Manufacturers / Dealers	Flying Schools	Clubs	
DHV Databases						
TECHNICAL DATA DHV TESTREPORT		OPERATING INSTRUCTION				 DHY
DRV IESIKEPOKI LIF						
SKYWALK ARAK AIR M						

Manufacturer	Skywalk GmbH & Co. KG Skywalk GmbH & Co. KG	
Classification Winch towing Number of seats min / max	Yes	and the second second
Accelerator Trimmers		
	BEHAVIOUR AT MIN WEIGHT IN	BEHAVIOUR AT MAX WEIGHT
Test pilots	FLIGHT (85KG)	IN FLIGHT (110KG)
		ADD
	Josef Bauer No release B	Sebastian Mackrodt No release A
Rising behaviour Special take off technique required	Easy rising, some pilot correction is required No	Smooth, easy and constant rising No
Landing Special landing technique required	A No	A No
<u>Speeds in straight flight</u> Trim speed more than 30 km/h	<b>A</b> Yes	A Yes
Speed range using the controls larger than 10 km/h Minimum speed	Yes Less than 25 km/h	Yes Less than 25 km/h
	A	A
Symmetric control pressure Symmetric control travel	Greater than 60 cm	Increasing Greater than 65 cm
Pitch stability exiting accelerated flight Dive forward angle on exit Collapse occurs		A Dive forward less than 30° No
<u>Pitch stability operating controls during</u> accelerated flight	Α	Α
Collapse occurs Roll stability and damping	No	No
<u>Roll stability and damping</u> Oscillations		Reducing
<u>Stability in gentle spirals</u> Tendency to return to straight flight	A Spontaneous exit	A Spontaneous exit
Behaviour exiting a fully developed spiral dive Initial response of glider (first 180°)		B en : keine unmittelbare Reaktion
Tendency to return to straight flight	Spontaneous exit (g force decreasing, rate of turn decreasing)	Spontaneous exit (g force decreasing rate of turn decreasing) Less than 720°, spontaneous recover
Symmetric front collapse	A Rocking back less than 45°	<b>B</b> Rocking back less than 45°
Recovery Dive forward angle on exit	Spontaneous in less than 3 s Dive forward 0° to 30°	Spontaneous in less than 3 s Dive forward 30° to 60°
Change of course Cascade occurs Folding lines used	No	Keeping course No no
<u>Unaccelerated collapse (at least 50 % chord)</u> Entry	<b>A</b> Rocking back less than 45°	A Rocking back less than 45°
-	Spontaneous in less than 3 s Dive forward 0° to 30°	Spontaneous in less than 3 s Dive forward 0° to 30° Keeping course
Change of course Cascade occurs Folding lines used	No	Keeping course No no
	<b>B</b> Rocking back less than 45°	<b>B</b> Rocking back less than 45°
-	Spontaneous in less than 3 s Dive forward 30° to 60°	Spontaneous in less than 3 s Dive forward 30° to 60° Keeping course
Cascade occurs Folding lines used	No	No
Exiting deep stall (parachutal stall) Deep stall achieved	A Yes	A Yes
Dive forward angle on exit	Spontaneous in less than 3 s Dive forward 0° to 30° Changing course less than 45°	Spontaneous in less than 3 s Dive forward 0° to 30° Changing course less than 45°
Cascade occurs		No
	Spontaneous in less than 3 s	Spontaneous in less than 3 s No
<u>Recovery from a developed full stall</u> Dive forward angle on exit	A Dive forward 0° to 30°	A Dive forward 0° to 30°
	No collapse No	No collapse No Less than 45°
Line tension	Most lines tight	Most lines tight
Small asymmetric collapse Change of course until re-inflation Maximum dive forward or roll angle		Less than 90° Dive or roll angle 0° to 15°
Re-inflation behaviour Total change of course Collapse on the opposite side occurs	•	Spontaneous re-inflation Less than 360° No (or only a small number of
	with a spontaneous re inflation)	collapsed cells with a spontaneous re inflation) No
Cascade occurs Folding lines used		No no
Large asymmetric collapse Change of course until re-inflation Maximum dive forward or roll angle		A Less than 90° Dive or roll angle 15° to 45°
Re-inflation behaviour Total change of course	Spontaneous re-inflation Less than 360°	Spontaneous re-inflation Less than 360°
	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) No
Cascade occurs Folding lines used	No	No
Small asymmetric collapse accelerated Change of course until re-inflation	A Less than 90°	A Less than 90°
Maximum dive forward or roll angle Re-inflation behaviour Total change of course	Spontaneous re-inflation	Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360°
	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 reinflation)
Twist occurs Cascade occurs Folding lines used	No	No No no
Large asymmetric collapse accelerated Change of course until re-inflation	A Less than 90°	A Less than 90°
Maximum dive forward or roll angle Re-inflation behaviour	Dive or roll angle 15° to 45° Spontaneous re-inflation	Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360°
	Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation)	
Twist occurs Cascade occurs Folding lines used	No	No No no
Directional control with a maintained	A	A
Able to keep course 180° turn away from the collapsed side possible in	Yes	Yes Yes
10 s 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
<u>Trim speed spin tendency</u> Spin occurs	<b>A</b> No	A No
Low speed spin tendency	Α	A
Spin occurs <u>Recovery from a developed spin</u>	No A	No
Spin rotation angle after release Cascade occurs		Stops spinning in less than 90° No
Change of course before release		A Changing course less than 45°
Recovery Dive forward angle on exit		Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°
Cascade occurs		No
Entry procedure Behaviour during big ears	Standard technique Stable flight	Standard technique Stable flight
	Recovery through pilot action in less than a further 3 s Dive forward 0° to 30°	Spontaneous in 3 s to 5 s Dive forward 0° to 30°
	<b>B</b> Standard technique	A Standard technique
Behaviour during big ears Recovery	-	Standard technique Stable flight Spontaneous in 3 s to 5 s
Dive forward angle on exit Behaviour immediately after releasing the	Dive forward 0° to 30° Stable flight	Dive forward 0° to 30° Stable flight
accelerator while maintaining big ears		
	Α	Α