

Home | Contact | Imprint | Data protection



SKYWALK ARAK S Type designation Type test reference no	-	A THE THE
Holder of certification Manufacturer	Skywalk GmbH & Co. KG Skywalk GmbH & Co. KG	
Classification Winch towing Number of seats min / max	Yes 1 / 1	
Accelerator Trimmers		BEHAVIOUR AT MAX WEIGHT
Test pilots	FLIGHT (75KG)	IN FLIGHT (100KG)
	CET.	1 a table
	Beni Stocker No release	Sebastian Mackrodt No release
<u>/</u>	Smooth, easy and constant rising	A Smooth, easy and constant rising No
	A	A
Special landing technique required Speeds in straight flight	No	No
Trim speed more than 30 km/h Speed range using the controls larger than 10	Yes Yes	Yes Yes
km/h Minimum speed	Less than 25 km/h	Less than 25 km/h
Symmetric control pressure	-	A Increasing
Symmetric control travel Pitch stability exiting accelerated flight	Greater than 55 cm	Greater than 60 cm
Dive forward angle on exit Collapse occurs		Dive forward less than 30° No
<u>Pitch stability operating controls during</u> accelerated flight	Α	Α
Collapse occurs		No
<u>Roll stability and damping</u> Oscillations	Reducing	¦ A Reducing
Stability in gentle spirals Tendency to return to straight flight	A Spontaneous exit	A Spontaneous exit
Behaviour exiting a fully developed spiral dive		Α
	Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate turn decreasing)	Immediate reduction of rate of turn of Spontaneous exit (g force decreasing rate of turn decreasing)
Turn angle to recover normal flight	57	Less than 720°, spontaneous recover
Entry	Rocking back less than 45° Spontaneous in less than 3 s	Rocking back less than 45° Spontaneous in less than 3 s
Dive forward angle on exit Change of course	Dive forward 0° to 30° Entering a turn of less than 90°	Dive forward 0° to 30° Keeping course
Cascade occurs Folding lines used	no	No no
-	Rocking back less than 45°	B Rocking back less than 45°
Dive forward angle on exit	Spontaneous in 3 s to 5 s Dive forward 30° to 60° Entering a turn of less than 90°	Spontaneous in 3 s to 5 s Dive forward 0° to 30° Entering a turn of less than 90°
Cascade occurs Folding lines used		No no
	B Rocking back less than 45°	A Rocking back less than 45°
Recovery 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 0° to 30°
Change of course Cascade occurs Folding lines used		Entering a turn of less than 90° No no
7*	Α	A
Deep stall achieved Recovery Dive forward angle on exit	Spontaneous in less than 3 s	Yes Spontaneous in less than 3 s Dive forward 0° to 30°
Change of course Cascade occurs	Changing course less than 45° No	Changing course less than 45° No
<i></i>	A Spontaneous in less than 3 s	A Spontaneous in less than 3 s
Cascade occurs	No	No
Dive forward angle on exit	A Dive forward 0° to 30° No collapse	A Dive forward 0° to 30° No collapse
Cascade occurs (other than collapses) Rocking back	No Less than 45°	No Less than 45°
	Most lines tight	Most lines tight
Change of course until re-inflation Maximum dive forward or roll angle	Dive or roll angle 15° to 45°	Less than 90° Dive or roll angle 0° to 15°
Total change of course	Spontaneous re-inflation Less than 360° No (or only a small number of collapsed ce	Spontaneous re-inflation Less than 360° ells No (or only a small number of
Twist occurs	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	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 ce with a spontaneous re inflation)	ells No (or only a small number of collapsed cells with a spontaneous re
Twist occurs Cascade occurs		inflation) No No
Folding lines used Small asymmetric collapse accelerated	no	no
Change of course until re-inflation Maximum dive forward or roll angle	Less than 90°	Less than 90° Dive or roll angle 15° to 45°
Total change of course	Spontaneous re-inflation Less than 360° No (or only a small number of collapsed ce	Spontaneous re-inflation Less than 360°
	with a spontaneous re inflation)	collapsed cells with a spontaneous re inflation)
Cascade occurs Folding lines used	No	No no
Large asymmetric collapse accelerated Change of course until re-inflation	B 90° to 180°	B 90° to 180°
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
Total change of course Collapse on the opposite side occurs	Less than 360° No (or only a small number of collapsed ce with a spontaneous re inflation)	collapsed cells with a spontaneous re
Twist occurs Cascade occurs		inflation) No No
Folding lines used		no
asymmetric collapse Able to keep course		A Yes
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or	Yes More than 50 % of the symmetric control	Yes More than 50 % of the symmetric
spin	travel	control travel
Spin occurs	No	No
<u>Low speed spin tendency</u> Spin occurs	A No	A No
/	A Stops spinning in less than 90°	A Stops spinning in less than 90°
Spin rotation angle after release Cascade occurs	No	Stops spinning in less than 90° No
Change of course before release		A Changing course less than 45°
	Remains stable with straight span Spontaneous in less than 3 s Dive forward 30° to 60°	Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°
Cascade occurs	No	No
	B Dedicated controls Stable flight	B Dedicated controls Stable flight
	Spontaneous in 3 s to 5 s	Stable flight Spontaneous in 3 s to 5 s Dive forward 0° to 30°
	A Dedicated controls	A Dedicated controls
Behaviour during big ears	Spontaneous in 3 s to 5 s	Dedicated controls Stable flight Spontaneous in 3 s to 5 s
-	•	Dive forward 0° to 30°
Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Stable flight
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Stable flight