Clubs

DI

DHV Databases

HV TESTREPORT LTF	S LIST OPERATING INSTRUCTION PRINT	
SKYWALK MESCAL 6 L Type designation	Skywalk Mescal 6 L	
Type test reference no Holder of certification	DHV GS-01-2547-20 Skywalk GmbH & Co. KG	
Manufacturer Classification	Skywalk GmbH & Co. KG A	
Winch towing Number of seats min / max		
Accelerator Trimmers		
	REHAVIOUR AT MIN WEIGHT IN	DELIANTOUR AT MAY WETCHT
	BEHAVIOUR AT MIN WEIGHT IN FLIGHT (95KG)	BEHAVIOUR AT MAX WEIGHT IN FLIGHT (135KG)
		198
	Harald Buntz	Sebastian Mackrodt
	No release	No release
Rising behaviour	Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off technique required	No	No
Landing Special landing technique required	·	A No
Trim speed more than 30 km/h	Yes	Yes
Speed range using the controls larger than 10 km/h		Yes
	Less than 25 km/h	Less than 25 km/h
Control movement Symmetric control pressure	<u> </u>	A Increasing
Symmetric control travel	-	Greater than 65 cm
	<u> </u>	A
Dive forward angle on exit Collapse occurs		Dive forward less than 30° No
Pitch stability operating controls during	A	A
accelerated flight Collapse occurs	<u> </u>	No
Roll stability and damping	A	A
Oscillations	<u> </u>	Reducing
Stability in gentle spirals	A	A
Tendency to return to straight flight	Spontaneous exit	Spontaneous exit
Behaviour exiting a fully developed spiral dive Initial response of glider (first 180°)	•	Immediate reduction of rate of turn
	Spontaneous exit (g force decreasing, rate of turn decreasing)	
Turn angle to recover normal flight	<u> </u>	Less than 720°, spontaneous recovery
		Parking hash less than 450
Recovery	Rocking back less than 45° Spontaneous in less than 3 s	Rocking back less than 45° Spontaneous in less than 3 s
_	Entering a turn of less than 90°	Dive forward 0° to 30° Keeping course
Cascade occurs Folding lines used		No no
Unaccelerated collapse (at least 50 % chord)	A	A
	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
		A
Entry	Rocking back less than 45°	Rocking back less than 45°
Dive forward angle on exit		Spontaneous in less than 3 s Dive forward 0° to 30°
Change of course Cascade occurs	Entering a turn of less than 90° No	Keeping course No
Folding lines used		no
Exiting deep stall (parachutal stall) Deep stall achieved		Yes
	Spontaneous in less than 3 s	Spontaneous in less than 3 s Dive forward 0° to 30°
_	Changing course less than 45°	Changing course less than 45° No
		A
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Cascade occurs		No :
Recovery from a developed full stall Dive forward angle on exit	•	Dive forward 0° to 30°
	No collapse	No collapse No
Rocking back		Less than 45° Most lines tight
		A
Change of course until re-inflation	Less than 90°	Less than 90°
	Spontaneous re-inflation	Dive or roll angle 15° to 45° Spontaneous re-inflation
	No (or only a small number of collapsed cells	
Twist occurs	with a spontaneous re inflation)	collapsed cells with a spontaneous re inflation) No
Cascade occurs	No	No
Folding lines used		no
Large asymmetric collapse Change of course until re-inflation	<u> </u>	Less than 90°
Maximum dive forward or roll angle Re-inflation behaviour	Dive or roll angle 0° to 15°	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 cells	Less than 360°
	with a spontaneous re inflation)	collapsed cells with a spontaneous re inflation)
Twist occurs Cascade occurs	No	No No
Folding lines used	no	no
Small asymmetric collapse accelerated Change of course until re-inflation	<u> </u>	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	Spontaneous re-initation	Spontaneous re-inflation

Collapse on the opposite side occurs No (or only a small number of collapsed cells No (or only a small number of with a spontaneous re inflation)

No (or only a small number of collapsed cells with a spontaneous re

Collapse on the opposite side occurs No (or only a small number of collapsed cells No (or only a small number of with a spontaneous re inflation)

Total change of course Less than 360°

Twist occurs No

Cascade occurs No

Maximum dive forward or roll angle Dive or roll angle 0° to 15°

Total change of course Less than 360°

Twist occurs No

Cascade occurs No

Folding lines used no

Able to keep course Yes

Amount of control range between turn and stall or More than 50 % of the symmetric control

Spin occurs No

Spin occurs No

Cascade occurs No

Spin rotation angle after release Stops spinning in less than 90°

Change of course before release Changing course less than 45°

Dive forward angle on exit Dive forward 0° to 30°

Dive forward angle on exit Dive forward 0° to 30°

Dive forward angle on exit Dive forward 0° to 30°

Cascade occurs No

Behaviour during big ears Stable flight

Behaviour during big ears Stable flight

Behaviour immediately after releasing the Stable flight

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

accelerator while maintaining big ears

No other flight procedure or configuration described in the user's manual

¦A

Entry procedure Dedicated controls

Entry procedure Dedicated controls

Α

Behaviour before release Remains stable with straight span

Recovery Spontaneous in less than 3 s

Recovery Spontaneous in less than 3 s

Recovery Spontaneous in 3 s to 5 s

spin travel

Re-inflation behaviour Spontaneous re-inflation

Folding lines used no

Change of course until re-inflation 90° to 180°

Large asymmetric collapse accelerated

Directional control with a maintained

180° turn away from the collapsed side possible in Yes

asymmetric collapse

Trim speed spin tendency

Low speed spin tendency

B-line stall

Big ears

Recovery from a developed spin

Big ears in accelerated flight

Alternative means of directional control

Less than 360°

Less than 90°

Less than 360°

inflation)

No

No

no

Yes

Yes

No

Α

No

Α

No

Α

No

control travel

Dive or roll angle 15° to 45°

collapsed cells with a spontaneous re

More than 50 % of the symmetric

Stops spinning in less than 90°

Changing course less than 45°

Spontaneous in less than 3 s

Spontaneous in less than 3 s

Spontaneous in less than 3 s

Dive forward 0° to 30°

Dive forward 0° to 30°

Dedicated controls

Dedicated controls

Stable flight

Stable flight

Α

Yes

No

Dive forward 0° to 30°

Stable flight

Remains stable with straight span

Spontaneous re-inflation

inflation)

No

No

no