

YWALK TONIC 14		
Type designation	Skywalk Tonic 14	
Type test reference no	DHV GS-01-2033-13	
Holder of certification	Skywalk GmbH & Co. KG	
Manufacturer	Skywalk GmbH & Co. KG	
Classification	C	ALL ALL
Winch towing	No	
Number of seats min / max	1 / 1	
Accelerator	Yes	
Trimmers	No	
	BEHAVIOUR AT MIN WEIGHT IN Flight (55kg)	BEHAVIOUR AT MAX WEIGHT IN FLIGHT (91KG)
Test pilots	Gudrun Öchsl	Harald Buntz

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Rising behavio	ur Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off technique requir		No
Landing	Å	Å
Special landing technique requir	ed No	No
Speeds in straight flight	<b>A</b>	B
Trim speed more than 30 km	<b>/h</b> Yes	Yes
Speed range using the controls larger than km		Yes
Minimum spe	<b>ed</b> Less than 25 km/h	25 km/h to 30 km/h
Control movement	B	¦c
Symmetric control pressu	re Approximately constant	Increasing
Symmetric control trav	el Greater than 55 cm	45 cm to 60 cm
Pitch stability exiting accelerated flight	<b>A</b>	A
Dive forward angle on ex	<b>xit</b> Dive forward less than 30°	Dive forward 30° to 60°
Collapse occu	Irs No	No
Pitch stability operating controls during accelerated flight	A	A
Collapse occu	I <b>rs</b> No	No
Roll stability and damping	Å	Å
Oscillatio	<b>ns</b> Reducing	Reducing
Stability in gentle spirals	Å	¦A
Tendency to return to straight flig	ht Spontaneous exit	Spontaneous exit
Behaviour in a steeply banked turn 🔔	। • В	'B
Sink rate after two tur	<b>ns</b> More than 14 m/s	More than 14 m/s
Symmetric front collapse	B	  B
Ent	<b>ry</b> Rocking back less than 45°	Rocking back less than 45°

Recovery	$\prime$ Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exi	t Dive forward 30° to 60°	Dive forward 30° to 60°
Change of course	e Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occurs	s No	No
Symmetric front collapse in accelerated flight	B	В
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 exi	t Dive forward 30° to 60°	Dive forward 30° to 60°
Change of course	e Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occurs	s No	No
Exiting deep stall (parachutal stall)	A	B
Deep stall achieved	1 Yes	Yes
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exi		Dive forward 30° to 60°
	Changing course less than 45°	Changing course less than 45°
Cascade occurs		No
High angle of attack recovery	A	A
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Cascade occurs	-	No
Recovery from a developed full stall	C	c
Dive forward angle on exi	t Dive forward 30° to 60°	Dive forward 60° to 90°
	Symmetric collapse	No collapse
Cascade occurs (other than collapses)		No
	Less than 45°	Less than 45°
-		
	<b>1</b> Most lines tight	Most lines tight
	n Most lines tight	Most lines tight
Asymmetric collapse 45-50%	n Most lines tight	Most lines tight
	Å	¦c
Change of course until re-inflation	A Less than 90°	Less than 90°
Change of course until re-inflation Maximum dive forward or roll angle	A Less than 90° Dive or roll angle 15° to 45°	Less than 90° Dive or roll angle 60° to 90°
Maximum dive forward or roll angle Re-inflation behaviou	A Less than 90° Dive or roll angle 15° to 45° r Spontaneous re-inflation	Less than 90° Dive or roll angle 60° to 90° Spontaneous re-inflation
Change of course until re-inflation Maximum dive forward or roll angle	A Less than 90° Dive or roll angle 15° to 45° r Spontaneous re-inflation Less than 360°	Less than 90° Dive or roll angle 60° to 90°

Twist occurs		No
Cascade occurs	S NO	No
Asymmetric collapse 70-75%	B	c
Change of course until re-inflation		180° to 360°
Maximum dive forward or roll angle	e Dive or roll angle 15° to 45°	Dive or roll angle 45° to 60°
Re-inflation behaviou	<b>r</b> Spontaneous re-inflation	Spontaneous re-inflation
Total change of course	<b>e</b> Less than 360°	Less than 360°
Collapse on the opposite side occurs	s No	No
Twist occurs	s No	No
Cascade occurs	s No	No
Asymmetric collapse 45-50% in accelerated	A	c
flight		
Change of course until re-inflation	1 Less than 90°	Less than 90°
Maximum dive forward or roll angle	e Dive or roll angle 15° to 45°	Dive or roll angle 60° to 90°
Re-inflation behaviou	<b>r</b> Spontaneous re-inflation	Spontaneous re-inflation
Total change of course	e Less than 360°	Less than 360°
Collapse on the opposite side occurs	s No	No
Twist occurs	s No	No
Cascade occurs	s No	No
Asymmetric collapse 70-75% in accelerated	B	c
flight		<u>.</u>
Change of course until re-inflation		180° to 360°
Maximum dive forward or roll angle	e Dive or roll angle 15° to 45°	Dive or roll angle 45° to 60°
Re-inflation behaviou	<b>r</b> Spontaneous re-inflation	Spontaneous re-inflation
Total change of course	<b>e</b> Less than 360°	Less than 360°
Collapse on the opposite side occurs	s No	No
Twist occurs	s No	No
Cascade occurs	s No	No
Directional control with a maintained asymmetric collapse	c	c
Able to keep course	2 Yes	Yes
180° turn away from the collapsed side possible in 10 s		Yes

Amount of control range between turn and stall or spin	-	25 % to 50 % of the symmetric control travel
Trim speed spin tendency	Α	A
Spin occurs		No
Spin occurs		
Low speed spin tendency	Α	A
Spin occurs	No	No
Recovery from a developed spin	Α	A
Spin rotation angle after release	Stops spinning in less than 90°	Stops spinning in less than 90°
Cascade occurs	No	No
		l C
Change of course before release		Changing course less than 45°
	Remains stable with straight span	Remains stable without straight span
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit		Dive forward 30° to 60°
Cascade occurs	No	No
Din	•	
		A
Entry procedure		Dedicated controls
Behaviour during big ears		Stable flight
-	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°
Big ears in accelerated flight	Α	  A
Entry procedure	Dedicated controls	Dedicated controls
Behaviour during big ears	Stable flight	Stable flight
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°
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Stable flight
Behaviour exiting a steep spiral	A	A
Tendency to return to straight flight	Spontanoous ovit	Spontaneous exit

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Less than 720°, spontaneous recovery	Less than 720°, spontaneous recovery
14	14
A	A
yes	Yes
s No	No
described in the user's manual	
the user's manual	
I L	 
Kleine Fläche, hohe Aufsetzgeschwindigkeit und Dynamik	Very direct handling, short brake travel, small area, high dynamics.
	14 <b>A</b> Yes No <b>described in the user's manual</b> the user's manual Kleine Fläche, hohe Aufsetzgeschwindigkeit

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