## AIR TURQUOISE SA | PARA-TEST.COM

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test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



## Flight test report: EN 926-2:2013+A1:2021\* and NfL 2-565-20

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ManufacturerNiviuk Gliders / Air GAddressC. Del Ter, 6 Nave D17165 La Cellera de T			Certification num	ber		
			Flight test		08.11.2023	
	Spain					
Glider model	lkuma 3 P 24		Classification		В	
Serial number	IKUMA3P24FT		Representative		None	
Trimmer	no		Place of test		Villeneuve	
Folding lines used	no					
Test pilot		Victor Chinen Cirilli		Alexandre Jofresa		
Harness		Advance Thun AG Success 4 M		BGD GmbH Snug M		
Harness to risers di	istance	43			43	
(cm) Distance betw	een risers	40			44	
(cm) Total weight in	n flight (kg)	75	75		95	
1. Inflation/Take-off		В				
Rising behaviour		Easy rising, some pilo	Easy rising, some pilot correction is required B		Easy rising, some pilot correction is required	В
Special take off technique	required	No		A	No	А
2. Landing		A				
Special landing technique	required	No		A	No	А
3. Speed in straight fligh	nt	Α				
Trim speed more than 30 km/h		Yes A		Yes	А	
Speed range using the controls larger than 10 km/h		Yes A		Yes	А	
Minimum speed		Less than 25 km/h		A	Less than 25 km/h	A
4. Control movement		А				
Max. weight in flight up						
Symmetric control pressure / travel		Increasing / greater th	an 55 cm	A	not available	0
Max. weight in flight 80 kg to 100 kg						
Symmetric control pressure / travel		not available		0	Increasing / greater than 60 cm	A
Max. weight in flight gre	ater than 100 kg					
Symmetric control pressure / travel		not available		0	not available	0
5. Pitch stability exiting	accelerated flight	Α				
Dive forward angle on exit		Dive forward less than	n 30°	A	Dive forward less than 30°	А
Collapse occurs		No		A	No	A
6. Pitch stability operating controls during accelerated flight		Α				
Collapse occurs		No		A	No	А
7. Roll stability and damping		Α				
Oscillations		Reducing		A	Reducing	A
8. Stability in gentle spirals		Α				
Tendency to return to straight flight		Spontaneous exit		A	Spontaneous exit	A

\*This standard is NOT covered by accreditation D-IS-19457-01

The validation of this test report is given by the signature of the test manager on inspection certificate 91.20 Rev 07 | 04.03.2022 // ISO | 91.22 // Page 1 of 4

Initial response of glidar (first 180°)No immediate weationSo No immediate weationSoTendency to return to straight fightSepatemena cet of factor storename, and if the second of the 20° hardward and the 20° hardward and second factor 20° hardward and second 20° hardward 20° har	9. Behaviour exiting a fully developed spiral dive	В			
International and any		No immediate reaction	В	No immediate reaction	В
Componential from collapse   A     Copyroximately 30 % chord   A     Entry   Rodeing back less than 45°   A   Rodeing back less than 45°   A     Recovery   Spontameous in less than 3 s   A   Spontameous in less than 3 s   A     Dive forward angle on exit Change of course   Dive forward 0 to 30° / Keeping course   A   Dive forward 0 to 30° / Keeping course   A     Cascade occurs   No   A   No   A   No   A     Cascade occurs   No   A   No   A   No   A     A fleast 50% chord   Torking back less than 40°   A   No   A   No   A     Cascade occurs   No   A   No   A   No   A   No   A     Dive forward angle on exit / Change of course   Dive forward 0 to 30° / Keeping course   A   No   A   No   A     Cascade occurs   No   No   A   No   No   A   No     Cascade occurs   No   No   A   No   No   A   No   A     Cascade occurs   No   A <td>Tendency to return to straight flight</td> <td></td> <td>A</td> <td></td> <td>A</td>	Tendency to return to straight flight		A		A
Approximately 39 % chord   Recovery   Rooting back less than 40°   A   Rooting back less than 40°   A   Rooting back less than 3 s   A   Sportaneous in less than 3 s   A   Sportaneous in less than 3 s   A   Sportaneous in less than 3 s   A   Dive forward of 05 30° / Keeping course   A   Dive forward of 05 30° / Keeping course   A   No   A   A   A     Calcade occurs   No   No   A   No   A   A   A   A     Calcade occurs   No   No   A   No   A   A   A   A   A     Recovery   Rooting back less than 40°   A   Rooting back less than 40°   A   Sportameous in less than 3 s   A   Sportameous in less than 3 s   A   Rooting back less than 40°   A   <	Turn angle to recover normal flight	720° to 1 080°, spontaneous recovery	В	720° to 1 080°, spontaneous recovery	В
Recovery   Spontameous in leas than 3 is   A   Spontameous in leas than 3 is   A     Dive forward angle on exit Change of course   Dive forward 0 is 307 / Keeping course   A   Dive forward 0 is 307 / Keeping course   A     Cascade occurs   No   A   No   A     Folding lines used   No   A   No   A     At least 50% chord   Entry   Recovery   Spontameous in leas than 3 is   A   Spontameous in leas than 3 is   A     Probing lines used   No   No   A   Recovery   Spontameous in leas than 3 is   A   Spontameous in leas than 3 is   A     Cascade occurs   No   No   A   No   No   A     Colding lines used   No   No   A   No   A     Cascade occurs   No   A   No   A   Recovery   A     Childing lines used   No   A   No   A   Recovery   A     Cascade occurs   No   A   Rocking back less than 40°   A   Rocking back less than 40°   A     Cascade occurs   No   A   No   A <td></td> <td>A</td> <td></td> <td></td> <td></td>		A			
Dive forward angle on exit Change of courseDive forward 0° to 30° / Keeping courseANoACascade occursNoANoANoAFolding lines usedNoANoAAAt least 50% chordEntryRocking back less than 45°ARocking back less than 45°ARocking back less than 45°ARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sANoACascade occursNoANoAACascade occursNoANoACascade occursNoA <td>Entry</td> <td>Rocking back less than 45°</td> <td>A</td> <td>Rocking back less than 45°</td> <td>A</td>	Entry	Rocking back less than 45°	A	Rocking back less than 45°	A
Cascade occursNoANoAFolding lines usedNoANoAAt least 50% chord EntryRocking back less than 45°ARocking back less than 45°ARocoverySpontaneous in less than 35ASpontaneous in less than 35ADive forward angle on exit / Change of courseDive forward 0° to 30° / Keeping courseANoACascade occursNoANoANoAFolding lines usedNoANoAAWith acceleratorEEEARocking back less than 45°ARocking back less than 45°ARocking back less than 45°ANoAWith acceleratorEEEARocking back less than 45°ARocking back less than 45°ARocoverySpontaneous in less than 35ARocking back less than 45°ADive forward angle on exit / Change of courseNoANoACascade occursNoANoAADive forward angle on exitPYesANoACascade occursNoANoAAACascade occu	Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Folding lines used   No   A   No   A     At least 50% chord   Entry   Rooking back less than 45°   A   Rooking back less than 45°   A     Recovery   Spontamenus in less than 3 a   A   Spontamenus in less than 3 a   A     Dive forward angle on exit / Change of course   Dive forward 0° to 30° / Keeping course   A   No   A     Cascade occurs   No   A   No   No   A     Folding lines used   No   A   No   A     With accelerator   Entry   Rooking back less than 45°   A   A     Prive forward angle on exit / Change of course   Dive forward 0° to 30° / Keeping course   A   Rooking back less than 45°   A     Recovery   Rooking back less than 45°   A   Rooking back less than 45°   A     Recovery   No   No   A   Rooking back less than 45°   A     Recovery   No   No   A   Rooking back less than 45°   A     Recovery   No   No   A   Rooking back less than 45°   A     Recovery   No   No   A   Rooking back less than 45	Dive forward angle on exit Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
At least 50% chord   Entry   Rocking back less than 45°   A   Rocking back less than 45°   A   Rocking back less than 45°   A     Bive forward one sxit / Change of course   Dow forward 0° to 30° / Keeping course   A   Dive forward 0° to 30° / Keeping course   A     Cascade occurs   No   A   No   A     Folding lines used   No   A   No   A     With accelerator   Entry   Rocking back less than 45°   A   Rocking back less than 45°   A     Recovery   Sportaneous in less than 3 s   A   Sportaneous in less than 3 s   A     Recovery   Sportaneous in less than 3 s   A   Sportaneous in less than 3 s   A     Recovery   No   No   A   No   A     Cascade occurs   No   A   No   A     Folding lines used   No   A   No   A     Dive forward one sott   Change of exit   Yes   A   No   A     Recovery   No   A   No   A   No   A     Dive forward one sott   No   A   No   A <td< td=""><td>Cascade occurs</td><td>No</td><td>A</td><td>No</td><td>A</td></td<>	Cascade occurs	No	A	No	A
Entry   Rocking back less than 45°   A   Rocking back less than 45°   A   Rocking back less than 45°   A     Recovery   Sportaneous in less than 3 s   A   Sportaneous in less than 3 s   A   Sportaneous in less than 3 s   A     Dive forward angle on exit / Change of course   No   No   A   No   A     Folding lines used   No   A   No   No   A     With accelerator   Entry   Rocking back less than 45°   A   Rocking back less than 45°   A   Sportaneous in less than 3 s   A   Sportaneous in less than 3 s   A   No   A   A     Prive forward angle on exit / Change of course   Dive forward 0° to 30° / Keeping course   A   No   No   A   A     Cascade occurs   No   No   A   No   A   A   A     Folding lines used   No   No   A   No   A   A   A     Cascade occurs   No   A   No   A   No   A   A     Folding lines used   No   A   No   A   No   A   A	Folding lines used	No	A	No	А
Dive forward angle on exit / Change of courseDive forward 0° to 30° / Keeping courseADive forward 0° to 30° / Keeping courseACascade occursNoANoAFolding lines usedNoANoAWith acceleratorEntryRocking back less than 45°ARocking back less than 45°ARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward 0° to 30° / Keeping courseADive forward angle on exit / Change of courseDive forward 0° to 30° / Keeping courseADive forward 0° to 30° / Keeping courseACascade occursNoANoAAFolding lines usedNoANoAFolding lines usedNoANoAFolding lines usedNoANoAFolding lines usedNoAYeeAPoep stall achievedYesAYeeARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ANoAChange of courseChanging course less than 45°ASpontaneous in less than 3 sAChange of courseNoANoANoACascade occursNoANoANoACascade occursNoANoANoACascade occursNoANoANoA </td <td>_</td> <td>Rocking back less than 45°</td> <td>A</td> <td>Rocking back less than 45°</td> <td>A</td>	_	Rocking back less than 45°	A	Rocking back less than 45°	A
Cascade occurs   No   A   No   A     Folding lines used   No   A   No   A     With accelerator   Entry   Rocking back less than 45°   A   Rocking back less than 45°   A     Recovery   Spontaneous in less than 3 s   A   Spontaneous in less than 3 s   A   Dive forward 0° to 30° / Keeping course   A     Cascade occurs   No   A   No   A   No   A     Folding lines used   No   A   No   A   A     Cascade occurs   No   A   No   A     Folding lines used   No   A   No   A     Deep stall (parachutal stall)   A   Yes   A   Recovery   A     Deep stall (parachutal stall)   A   Yes   A   Recovery   A   No   A     Cascade occurs   No   No   A   No   A   A     Change of course   Changing course less than 3 s   A   Spontaneous in less than 3 s   A     Cascade occurs   No   No   A   Noedinyand 0° to 30°   A	Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	А
Folding lines used   No   A   No   A     With accelerator     Entry   Rocking back less than 45°   A   Rocking back less than 45°   A     Recovery   Spontaneous in less than 3 s   A   Spontaneous in less than 3 s   A     Dive forward angle on exit / Change of course   Dive forward 0° to 30° / Keeping course   A   Dive forward 0° to 30° / Keeping course   A     Cascade occurs   No   A   No   A     Folding lines used   No   A   No   A     Cascade occurs   No   A   No   A     Peep stall (parachutal stall)   A   Yes   A   No   A     Recovery   Spontaneous in less than 3 s   A   Spontaneous in less than 3 s   A     Change of course   Changing course less than 45°   A   Spontaneous in less than 3 s   A     Change of course   No   No   A   No   A     Cascade occurs   No   A   No   A     Recovery   A   Spontaneous in less than 3 s   A   Spontaneous in less than 3 s   A     Ca	Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
With accelerator     With accelerator     Entry   Rooking back less than 45°   A   Rooking back less than 45°   A     Recovery   Spontaneous in less than 3 s   A   Spontaneous in less than 3 s   A     Dive forward angle on exit / Change of course   Dive forward 0° to 30° / Keeping course   A   No   A     Cascade occurs   No   A   No   A   No   A     Folding lines used   No   A   No   A   A     Dive forward angle on exit   Mage course   A   Yes   A   A     Recovery   Spontaneous in less than 3 s   A   Spontaneous in less than 3 s   A   A     Dive forward angle on exit   Dive forward 0° to 30°   A   Spontaneous in less than 3 s   A   A     Cascade occurs   No   A   No   A   No   A     Cascade occurs   No   A   No   A   A   A     Cascade occurs   No   A   No   A   A   A   A     Cascade occurs   No   No   A   No   <	Cascade occurs	No	A	No	А
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RecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exit / Change of courseDive forward 0° to 30° / Keeping courseADive forward 0° to 30° / Keeping courseACascade occursNoANoAFolding lines usedNoANoA11. Exiting deep stall (parachutal stall) Deep stall achievedA YesAYesARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°AChange of courseChanging course less than 45°ADive forward 0° to 30°ACascade occursNoANoACascade occursNoANoA13. Recovery from a developed full stall Dive forward 0° to 30°ANoADive forward angle on exitADive forward 0° to 30°ANo13. RecoveryASpontaneous in less than 3 sASpontaneous in less than 3 sACascade occursNoANoANoACascade occursNoANoANoACascade occursNoANoANoACascade occursNoANoANoACascade occursNoANoANoADive forward angle on exitADive forward 0° to 30°ANoA	With accelerator				
NectorityDive forward 0° to 30° / Keeping courseADive forward 0° to 30° / Keeping courseACascade occursNoANoAFolding lines usedNoANoA <b>11. Exiting deep stall (parachutal stall)</b> Deep stall achieved <b>A</b> YesAYesARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sASpontaneous in less than 3 sADive forward or to 30°Changing course less than 4 sDive forward 0° to 30°ANoAChange of courseChanging course less than 4 sANoAACascade occursNoNoANoAA12. High angle of attack recovery RecoveryANoANoACascade occursNoNoANoAA13. Recovery from a developed full stall Dive forward 0° to 30°ADive forward 0° to 30°AADive forward angle on exitNoSontaneous in less than 3 sASpontaneous in less than 3 sA13. Recovery from a developed full stall Dive forward 0° to 30°ANoANoADive forward angle on exitNoSontaneous in less than 3 sANoACollapseNo collapseANo collapseANo collapseA	Entry	Rocking back less than 45°	A	Rocking back less than 45°	A
Cascade occursNoANoAFolding lines usedNoANoA <b>11. Exiting deep stall (parachutal stall)</b> Deep stall achieved <b>A</b> YesAYesA <b>Recovery</b> Spontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°AChange of courseChanging course less than 45°AChanging course less than 45°ACascade occursNoANoA <b>12. High angle of attack recovery</b> Recovery <b>A</b> Spontaneous in less than 3 sA <b>13. Recovery from a developed full stall</b> Dive forward 0° to 30°ANoA <b>13. Recovery from a developed full stall</b> Dive forward 0° to 30°ANoA <b>13. Recovery from a developed full stall</b> Dive forward 0° to 30°ANoA <b>13. Recovery from a developed full stall</b> Dive forward 0° to 30°ANoA <b>13. Recovery from a developed full stall</b> Dive forward 0° to 30°ANoA <b>13. Recovery from a developed full stall</b> Dive forward 0° to 30°ANoA <b>14. Bive forward 0°</b> to 30°ANoANo <b>15. Recovery from a developed full stall</b> Dive forward 0° to 30°ANoA <b>16. Bive forward 0°</b> to 30°ANoANo <b>17. Bive forward 0°</b> to 30°ANoNoA <b>17. Bive forward 0°</b> to 30°ANoNoA <td>Recovery</td> <td>Spontaneous in less than 3 s</td> <td>A</td> <td>Spontaneous in less than 3 s</td> <td>A</td>	Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Folding lines usedNoANoA <b>11. Exiting deep stall (parachutal stall)</b> Deep stall achieved <b>A</b> YesAYesARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°AChange of courseChanging course less than 45°AAChanging course less than 45°ACascade occursNoANoAA <b>12. High angle of attack recovery</b> Recovery <b>A</b> Spontaneous in less than 3 sASpontaneous in less than 3 sA <b>13. Recovery from a developed full stall</b> Dive forward 0° to 30°NoANoA <b>13. Recovery from a developed full stall</b> Dive forward 0° to 30°ADive forward 0° to 30°A <b>Collapse</b> No collapseADive forward 0° to 30°A	Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Initial lines accurate   A   Yes   A   Yes   A     Peep stall achieved   Spontaneous in less than 3 s   A   Yes   A     Recovery   Spontaneous in less than 3 s   A   Spontaneous in less than 3 s   A     Dive forward angle on exit   Dive forward 0° to 30°   A   Dive forward 0° to 30°   A     Change of course   Changing course less than 45°   A   Changing course less than 45°   A     Cascade occurs   No   A   No   A     12. High angle of attack recovery   A   Spontaneous in less than 3 s   A   Spontaneous in less than 3 s   A     Cascade occurs   No   A   No   A   Spontaneous in less than 3 s   A     Cascade occurs   No   A   Spontaneous in less than 3 s   A   Spontaneous in less than 3 s   A     Cascade occurs   No   A   No   A   No   A     13. Recovery from a developed full stall   Dive forward 0° to 30°   A   Dive forward 0° to 30°   A     Dive forward angle on exit   Dive forward 0° to 30°   A   Dive forward 0° to 30°   A	Cascade occurs	No	A	No	А
Deep stall achievedYesAYesARecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°AChange of courseChanging course less than 45°AChanging course less than 45°ACascade occursNoANoA <b>12. High angle of attack recovery</b> Recovery <b>A</b> Spontaneous in less than 3 sASpontaneous in less than 3 sACascade occursNoANoACascade occursNoANoACascade occursNoASpontaneous in less than 3 sACascade occursNoANoACascade occursNoANoACascade occursNoANoACascade occursNoANoACascade occursNoANoACascade occursNoANoACascade occursNoANoACollapseNo collapseANoA	Folding lines used	No	A	No	A
RecoverySpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°AChange of courseChanging course less than 45°AChanging course less than 45°ACascade occursNoANoA12. High angle of attack recovery RecoveryA Spontaneous in less than 3 sASpontaneous in less than 3 sA13. Recovery from a developed full stall Dive forward 0° to 30°A Dive forward 0° to 30°ANoACollapseNo collapseA No collapseA No collapseNo collapseANo			٨	Vac	٨
NeccoderyDive forward on exitDive forward on to 30°ADive forward on to 30°AChange of courseChanging course less than 45°AChanging course less than 45°ACascade occursNoANoA12. High angle of attack recovery RecoveryA Spontaneous in less than 3 sASpontaneous in less than 3 sA13. Recovery from a developed full stall Dive forward angle on exitA Dive forward on to 30°ADive forward on to 30°ACollapseNo collapseA No collapseA No collapseA No collapseA No collapseA No collapseA No collapse					
Change of courseChanging course less than 45°AChanging course less than 45°ACascade occursNoANoA12. High angle of attack recovery RecoveryA Spontaneous in less than 3 sASpontaneous in less than 3 sA13. Recovery from a developed full stall Dive forward angle on exitA Dive forward 0° to 30°ADive forward 0° to 30°ACollapseNo collapseA No collapseA No collapseA No collapseA	Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Cascade occursNoANoA12. High angle of attack recovery RecoveryA Spontaneous in less than 3 sASpontaneous in less than 3 sACascade occursNoNoANoACascade occursNoADive forward 0° to 30°ANo13. Recovery from a developed full stall Dive forward angle on exitADive forward 0° to 30°ADive forward 0° to 30°ACollapseNo collapseANo collapseANo collapseA	Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
12. High angle of attack recovery   A     Recovery   Spontaneous in less than 3 s   A   Spontaneous in less than 3 s   A     Cascade occurs   No   A   Spontaneous in less than 3 s   A   Spontaneous in less than 3 s   A     13. Recovery from a developed full stall   A   Dive forward 0° to 30°   A   Dive forward 0° to 30°   A   Dive forward 0° to 30°   A     Collapse   No collapse   A   Dive forward 0° to 30°   A   Dive forward 0° to 30°   A	Change of course	Changing course less than 45°	A	Changing course less than 45°	A
RecoverySpontaneous in less than 3 sASpontaneous in less than 3 sACascade occursNoANoA13. Recovery from a developed full stall Dive forward on exitADive forward 0° to 30°ADive forward 0° to 30°ACollapseNo collapseANo collapseANo collapseA	Cascade occurs	No	A	No	A
13. Recovery from a developed full stall A   Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A   Collapse No collapse A No collapse A No collapse A			A	Spontaneous in less than 3 s	A
Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A   Collapse No collapse A No collapse A	Cascade occurs	No	A	No	A
			A	Dive forward 0° to 30°	A
	Collapse	No collapse	A	No collapse	А
	Cascade occurs (other than collapses)	No	A	No	A

Rocking back	Less than 45°	А	Less than 45°	А
Line tension	Most lines tight	А	Most lines tight	A
14. Asymmetric collapse	В			
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°	A	Less than 90° / Dive or roll angle 0° to $15^\circ$	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	А
Total change of course	Less than 360°	A	Less than 360°	А
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	A	No	А
Cascade occurs	No	A	No	A
Folding lines used	No	A	No	А
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 15° to 45°	В	Less than 90° / Dive or roll angle 15° to 45° $$	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	А
Total change of course	Less than 360°	A	Less than 360°	A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	A	No	A
Cascade occurs	No	A	No	A
Folding lines used	No	A	No	A
Small asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	Less than 90° / Dive or roll angle 15° to 45° $$	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	А
Total change of course	Less than 360°	A	Less than 360°	A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	A	No	A
Cascade occurs	No	A	No	A
Folding lines used	No	A	No	А
Large asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	$90^\circ$ to $180^\circ$ / Dive or roll angle $15^\circ$ to $45^\circ$	В	Less than 90° / Dive or roll angle 15° to 45° $$	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	А
Total change of course	Less than 360°	A	Less than 360°	A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	A	No	A
Cascade occurs	No	A	No	A

Folding lines used	No	A	Νο	А
15. Directional control with a maintained	Α			
asymmetric collapse Able to keep course	Yes	A	Yes	А
' 180° turn away from the collapsed side possible in 10 s	Yes	А	Yes	A
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	A
<b>16. Trim speed spin tendency</b> Spin occurs	A No	A	No	A
17. Low speed spin tendency Spin occurs	A No	A	No	A
18. Recovery from a developed spin	A			
Spin rotation angle after release	Stops spinning in less than 90°	A	Stops spinning in less than 90°	А
Cascade occurs	No	A	No	A
19. B-line stall	A			
Change of course before release	Changing course less than 45°	A	Changing course less than 45°	А
Behaviour before release	Remains stable with straight span	A	Remains stable with straight span	A
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Cascade occurs	No	A	No	А
20. Big ears	A			
Entry procedure	Dedicated controls	A	Dedicated controls	А
Behaviour during big ears	Stable flight	A	Stable flight	A
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	А
21. Big ears in accelerated flight	Α			
Entry procedure	Dedicated controls	A	Dedicated controls	А
Behaviour during big ears	Stable flight	A	Stable flight	А
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A	Stable flight	A
22. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	A	Yes	A
Stall or spin occurs	No	A	No	A
23. Any other flight procedure and/or configuration described in the user's manual	0			
Procedure works as described	not available	0	not available	0
Procedure suitable for novice pilots	not available	0	not available	0
Cascade occurs	not available	0	not available	0