

Manufacturing Check Sheet for Paragliders

Piece Check

Glider Type: UP XA45XS Ascent XS -DHV	Serial No.:
Rev. No.: 1	Date: 03.05.2007

Line lengths [cm]

R. No.	Area																																
	A										B										C												
		Left					Right						Left					Right						Left					Right				
	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm
1	664,5											655,5											659,0										
2	656,0											647,0											650,5										
3	656,5											647,5											651,0										
5	656,5											647,5											650,5										
6	660,0											651,5											654,5										
8	656,0											649,5											652,0										
9	653,5											646,0											649,0										
11	651,0											644,0											646,0										
12	652,0											645,0											645,5										
14	644,0											636,0											635,0										
15	638,5											632,0											631,0										
17	632,0											624,5											624,0										
18	628,5											622,0											621,0										
19	626,0																																
20	605,0											599,5											599,0										
21	587,0																						588,5										

Total line length in cm from riser quick link to canopy including line loops, following DHV measuring method. Line load is 5 daN.

on new wings the center A- and B-lines can be shorter appr. 0,5-1cm. as the center of wing has the most load the lines will fit themself during use to the nominal lengt

Rib numbering starts in the center of the wing. Wing sides in flight direction, seen from top.

Measurements are rounded to the next 0,5 cm. Please mark measurements relative to nominal by crossing X

R. No.	Area																				rib no. brakes											
	D										E											Brake										
		Left				Right					Left				Right					Left				Right								
	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm				
1	670,5											678,5											762,0						1			
2	663,0											671,5											731,5						3			
3	663,0											671,5											713,5						5			
5	663,0											671,0											703,0						7			
6	666,0											673,5											691,0						9			
8	663,5											671,5											681,5						11			
9	660,0											667,0											677,5						13			
11	655,0											661,0											677,0						15			
12	654,5											658,5											670,0						17			
14	646,5																						657,5						19			
15	640,5																						645,5						21			
17	631,0																															
18	626,5																															
19																																
20	603,0																						brakes measured inkl.10cm-loop									



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Single Line Lengths

Glider Type: UP XA45XS Ascent XS

Rev. No.: 1

Serial No.:

Date: 03.05.2007

Line no.	Quantity	Length [cm]	Diameter [mm]	colour
ao1	2	80,0	1,1	pink
ao2	2	71,5	1,1	pink
ao3	2	72,0	1,1	pink
ao4	2	72,0	1,1	pink
ao5	2	75,5	1,1	pink
ao6	2	72,0	1,1	pink
ao7	2	69,5	1,1	pink
ao8	2	67,0	1,1	pink
ao9	2	68,0	1,1	pink
ao10	2	60,5	1,1	pink
ao11	2	55,0	1,1	pink
ao12	2	48,5	1,1	pink
ao13	2	45,0	1,1	pink
ao14	2	111,5	1,1	pink
ao15	2	90,5	1,1	pink
ao16	2	72,5	1,1	pink
bo1	2	71,0	1,1	blue
bo2	2	62,5	1,1	blue
bo3	2	63,0	1,1	blue
bo4	2	63,0	1,1	blue
bo5	2	67,0	1,1	blue
bo6	2	65,5	1,1	blue
bo7	2	62,0	1,1	blue
bo8	2	60,0	1,1	blue
bo9	2	61,0	1,1	blue
bo10	2	52,5	1,1	blue
bo11	2	48,5	1,1	blue
bo12	2	41,0	1,1	blue
bo13	2	38,5	1,1	blue
bo14	2	85,0	1,1	blue
co1	2	75,5	1,1	yellow
co2	2	67,0	1,1	yellow
co3	2	67,5	1,1	yellow
co4	2	67,0	1,1	yellow
co5	2	71,0	1,1	yellow
co6	2	68,5	1,1	yellow
co7	2	65,5	1,1	yellow
co8	2	62,5	1,1	yellow
co9	2	62,0	1,1	yellow
co10	2	88,5	1,1	yellow
co11	2	84,5	1,1	yellow
co12	2	77,5	1,1	yellow
co13	2	74,5	1,1	yellow
co14	2	84,5	1,1	yellow
co15	2	74,0	1,1	yellow

Line no.	Quantity	Length [cm]	Diameter [mm]	colour
do1	2	88,0	1,1	yellow
do2	2	80,5	1,1	yellow
do3	2	80,5	1,1	yellow
do4	2	80,5	1,1	yellow
do5	2	83,5	1,1	yellow
do6	2	81,0	1,1	yellow
do7	2	77,5	1,1	yellow
do8	2	72,5	1,1	yellow
do9	2	72,0	1,1	yellow
do10	2	100,0	1,1	yellow
do11	2	94,0	1,1	yellow
do12	2	84,5	1,1	yellow
do13	2	80,0	1,1	yellow
do14	2	88,5	1,1	yellow
eo1	2	96,0	1,1	yellow
eo2	2	89,0	1,1	yellow
eo3	2	89,0	1,1	yellow
eo4	2	88,5	1,1	yellow
eo5	2	91,0	1,1	yellow
eo6	2	89,0	1,1	yellow
eo7	2	84,5	1,1	yellow
eo8	2	78,5	1,1	yellow
eo9	2	76,0	1,1	yellow
aou1	12	156,5	1,3	pink
bou1	12	156,5	1,3	blue
cou1	8	156,5	1,3	yellow
cou2	4	119,5	1,3	yellow
dou1	8	156,5	1,3	yellow
A1	2	427,5	1,5	red
A2	2	427,5	1,5	red
A3	2	427,5	1,5	red
B1	2	427,5	1,5	blue
B2	2	427,5	1,5	blue
B3	2	427,5	1,5	blue
C1	2	427,5	1,5	yellow
C2	2	427,5	1,5	yellow
C3	2	427,5	1,5	yellow
D1	2	427,5	1,5	yellow
D2	2	427,5	1,5	yellow
Stabi-brk	2	197,0	1,3	pink
Stabi	2	515,0	1,5	red

Brake no.	Quantity	Length [cm]	Diameter [mm]	colour
brk1	2	215,5	1,1	pink
brk2	2	185,0	1,1	pink
brk3	2	167,0	1,1	pink
brk4	2	156,5	1,1	pink
brk5	2	144,5	1,1	pink
brk6	2	135,0	1,1	pink
brk7	2	131,0	1,1	pink
brk8	2	130,5	1,1	pink
brk9	2	123,5	1,1	pink
brk10	2	111,0	1,1	pink
brk11	2	109,0	1,1	pink
brkou	10	156,5	1,3	pink
brkuu	6	211,5	1,5	red
Brk Main	2	169,0	2,3 *)	orange

*) 2,3 Dyneema

line material:

1,1 = cousin ultimate 989 1,1mm

1,3 = cousin ultimate 989 1,3mm

1,5 = cousin ultimate 989 1,5mm

total length	no. of lines
33968	246

average line length (A to Brk.)
138,08

Line Check Sheet for Paragliders

Piece Check

Glider Type: UP XA45S Ascent S -DHV	Serial No.:
Rev. No.: 1	Date: 1.12.2006

Line lengths [cm]

R. No.	Area																													
	A										B										C									
	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm		
1	696,5										687,0											690,0								
2	688,0										677,5											681,0								
3	688,5										678,5											681,5								
5	688,5										678,0											681,0								
6	692,0										682,5											685,5								
8	686,5										679,0											681,5								
9	683,5										675,5											678,5								
11	680,5										673,5											675,5								
12	681,5										674,5											675,0								
14	672,0										664,0											664,0								
15	666,5										659,5											659,5								
17	659,5										653,0											652,0								
18	656,0										650,5											649,5								
19	653,5																													
20	631,5										626,0											625,5								
21	613,0																					615,0								

Total line length in cm from riser quick link to canopy including line loops, following DHV measuring method. Line load is 5 daN.

on new wings the center A- and B-lines can be shorter appr. 0,5-1cm. as the center of wing has the most load the lines will fit themself during use to the nominal lengt

Rib numbering starts in the center of the wing. Wing sides in flight direction, seen from top.

Measurements are rounded to the next 0,5 cm. Please mark measurements relative to nominal by crossing X

R. No.	Area										E										Brake										rib no. brakes		
	D																																
			Left			Right							Left			Right							Left			Right							
	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm
1	702,0											710,5											800,0										1
2	694,0											703,0											768,5										3
3	694,0											703,0											749,5										5
5	694,0											702,5											738,5										7
6	697,5											705,0											726,0										9
8	693,5											702,0											716,0										11
9	690,0											697,5											712,5										13
11	684,5											691,0											712,0										15
12	684,0											688,5											704,0										17
14	675,5																						691,0										19
15	668,5																						679,0										21
17	659,5																																
18	654,5																																
19																																	
20	629,5																						brakes measured inkl.10cm-loop										

Single Line Lengths

Glider Type: UP XA45S Ascent S

Rev. No.: 1

Serial No.:

Date: 1.12.2006

Line no.	Quantity	Length [cm]	Diameter [mm]	colour
ao1	2	85,5	1,1	pink
ao2	2	77,0	1,1	pink
ao3	2	77,5	1,1	pink
ao4	2	77,5	1,1	pink
ao5	2	81,0	1,1	pink
ao6	2	76,0	1,1	pink
ao7	2	73,0	1,1	pink
ao8	2	70,0	1,1	pink
ao9	2	71,0	1,1	pink
ao10	2	62,0	1,1	pink
ao11	2	56,5	1,1	pink
ao12	2	49,5	1,1	pink
ao13	2	46,0	1,1	pink
ao14	2	116,0	1,1	pink
ao15	2	94,0	1,1	pink
ao16	2	75,5	1,1	pink
bo1	2	76,0	1,1	blue
bo2	2	66,5	1,1	blue
bo3	2	67,5	1,1	blue
bo4	2	67,0	1,1	blue
bo5	2	71,5	1,1	blue
bo6	2	68,5	1,1	blue
bo7	2	65,0	1,1	blue
bo8	2	63,0	1,1	blue
bo9	2	64,0	1,1	blue
bo10	2	54,0	1,1	blue
bo11	2	49,5	1,1	blue
bo12	2	43,0	1,1	blue
bo13	2	40,5	1,1	blue
bo14	2	88,5	1,1	blue
co1	2	80,0	1,1	yellow
co2	2	71,0	1,1	yellow
co3	2	71,5	1,1	yellow
co4	2	71,0	1,1	yellow
co5	2	75,5	1,1	yellow
co6	2	71,5	1,1	yellow
co7	2	68,5	1,1	yellow
co8	2	65,5	1,1	yellow
co9	2	65,0	1,1	yellow
co10	2	92,5	1,1	yellow
co11	2	88,0	1,1	yellow
co12	2	80,5	1,1	yellow
co13	2	78,0	1,1	yellow
co14	2	88,0	1,1	yellow
co15	2	77,5	1,1	yellow

Line no.	Quantity	Length [cm]	Diameter [mm]	colour
do1	2	93,0	1,1	yellow
do2	2	85,0	1,1	yellow
do3	2	85,0	1,1	yellow
do4	2	85,0	1,1	yellow
do5	2	88,5	1,1	yellow
do6	2	84,5	1,1	yellow
do7	2	81,0	1,1	yellow
do8	2	75,5	1,1	yellow
do9	2	75,0	1,1	yellow
do10	2	104,0	1,1	yellow
do11	2	97,0	1,1	yellow
do12	2	88,0	1,1	yellow
do13	2	83,0	1,1	yellow
do14	2	92,0	1,1	yellow
eo1	2	101,5	1,1	yellow
eo2	2	94,0	1,1	yellow
eo3	2	94,0	1,1	yellow
eo4	2	93,5	1,1	yellow
eo5	2	96,0	1,1	yellow
eo6	2	93,0	1,1	yellow
eo7	2	88,5	1,1	yellow
eo8	2	82,0	1,1	yellow
eo9	2	79,5	1,1	yellow
aou1	12	163,5	1,3	pink
bou1	12	163,5	1,3	blue
cou1	8	163,5	1,3	yellow
cou2	4	125,0	1,3	yellow
dou1	8	163,5	1,3	yellow
A1	2	447,0	1,5	red
A2	2	447,0	1,5	red
A3	2	447,0	1,5	red
B1	2	447,0	1,5	blue
B2	2	447,0	1,5	blue
B3	2	447,0	1,5	blue
C1	2	447,0	1,5	yellow
C2	2	447,0	1,5	yellow
C3	2	447,0	1,5	yellow
D1	2	447,0	1,5	yellow
D2	2	447,0	1,5	yellow
Stabi-brk	2	205,5	1,3	pink
Stabi	2	538,0	1,5	red

Brake no.	Quantity	Length [cm]	Diameter [mm]	colour
brk1	2	229,0	1,1	pink
brk2	2	197,5	1,1	pink
brk3	2	178,5	1,1	pink
brk4	2	167,5	1,1	pink
brk5	2	155,0	1,1	pink
brk6	2	145,0	1,1	pink
brk7	2	141,5	1,1	pink
brk8	2	141,0	1,1	pink
brk9	2	133,0	1,1	pink
brk10	2	120,0	1,1	pink
brk11	2	118,0	1,1	pink
brkou	10	163,5	1,3	pink
brkuu	6	221,0	1,5	red
Brk Main	2	177,0	2,3 *)	orange

*) 2,3 Dyneema

line material:

1,1 = cousin ultimate 989 1,1mm

1,3 = cousin ultimate 989 1,3mm

1,5 = cousin ultimate 989 1,5mm

total length	no. of lines
35638	246

average line length (A to Brk.)
144,87

Manufacturing Check Sheet for Paragliders

Piece Check

Glider Type: UP XA45 Ascent M (DHV)	Serial No.:
Rev. No.: 2	Date: 01.12.2006

Line lengths [cm]

R.	Area																													
No.	A										B										C									
		Left				Right					Left				Right					Left				Right						
	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm		
1	724,5											714,5											717,5							
2	715,5											705,0											708,5							
3	716,0											706,0											709,0							
5	716,0											705,5											708,5							
6	720,0											710,0											713,0							
8	714,0											706,5											709,0							
9	711,0											702,5											706,0							
11	708,0											700,5											702,5							
12	709,0											701,5											702,0							
14	699,0											690,5											691,0							
15	693,5											686,0											686,0							
17	686,0											679,0											678,5							
18	682,5											676,5											675,5							
19	680,0																													
20	657,5											651,5											651,0							
21	638,0																						640,0							

Total line length in cm from riser quick link to canopy including line loops, following DHV measuring method. Line load is 5 daN.

On new wings the center A- and B-lines can be shorter appr. 0.5-1cm. as the center of wing has the most load the lines will fit themself during use to the nominal length. Rib numbering starts in the center of the wing. Wing sides in flight direction, seen from top.

Measurements are rounded to the next 0,5 cm. Please mark measurements relative to nominal by crossing **X**

[illegible]

Single Line Lengths

Glider Type: UP XA45 Ascent M (DHV)

Rev. No.: 2

Serial No.:

Date: 01.12.2006

Line no.	Quantity	Length [cm]	Diameter [mm]	colour
ao1	2	89,0	1,1	pink
ao2	2	80,0	1,1	pink
ao3	2	80,5	1,1	pink
ao4	2	80,5	1,1	pink
ao5	2	84,5	1,1	pink
ao6	2	79,0	1,1	pink
ao7	2	76,0	1,1	pink
ao8	2	73,0	1,1	pink
ao9	2	74,0	1,1	pink
ao10	2	64,5	1,1	pink
ao11	2	59,0	1,1	pink
ao12	2	51,5	1,1	pink
ao13	2	48,0	1,1	pink
ao14	2	120,5	1,1	pink
ao15	2	98,0	1,1	pink
ao16	2	78,5	1,1	pink
bo1	2	79,0	1,1	blue
bo2	2	69,5	1,1	blue
bo3	2	70,5	1,1	blue
bo4	2	70,0	1,1	blue
bo5	2	74,5	1,1	blue
bo6	2	71,5	1,1	blue
bo7	2	67,5	1,1	blue
bo8	2	65,5	1,1	blue
bo9	2	66,5	1,1	blue
bo10	2	56,0	1,1	blue
bo11	2	51,5	1,1	blue
bo12	2	44,5	1,1	blue
bo13	2	42,0	1,1	blue
bo14	2	92,0	1,1	blue
co1	2	83,0	1,1	yellow
co2	2	74,0	1,1	yellow
co3	2	74,5	1,1	yellow
co4	2	74,0	1,1	yellow
co5	2	78,5	1,1	yellow
co6	2	74,5	1,1	yellow
co7	2	71,5	1,1	yellow
co8	2	68,0	1,1	yellow
co9	2	67,5	1,1	yellow
co10	2	96,5	1,1	yellow
co11	2	91,5	1,1	yellow
co12	2	84,0	1,1	yellow
co13	2	81,0	1,1	yellow
co14	2	91,5	1,1	yellow
co15	2	80,5	1,1	yellow

Line no.	Quantity	Length [cm]	Diameter [mm]	colour
do1	2	96,5	1,1	yellow
do2	2	88,5	1,1	yellow
do3	2	88,5	1,1	yellow
do4	2	88,5	1,1	yellow
do5	2	92,0	1,1	yellow
do6	2	88,0	1,1	yellow
do7	2	84,0	1,1	yellow
do8	2	78,5	1,1	yellow
do9	2	78,0	1,1	yellow
do10	2	108,0	1,1	yellow
do11	2	101,0	1,1	yellow
do12	2	91,5	1,1	yellow
do13	2	86,5	1,1	yellow
do14	2	95,5	1,1	yellow
eo1	2	105,5	1,1	yellow
eo2	2	98,0	1,1	yellow
eo3	2	98,0	1,1	yellow
eo4	2	97,0	1,1	yellow
eo5	2	100,0	1,1	yellow
eo6	2	96,5	1,1	yellow
eo7	2	92,0	1,1	yellow
eo8	2	85,5	1,1	yellow
eo9	2	82,5	1,1	yellow
aou1	12	170,0	1,3	pink
bou1	12	170,0	1,3	blue
cou1	8	170,0	1,3	yellow
cou2	4	130,0	1,3	yellow
dou1	8	170,0	1,3	yellow
A1	2	465,0	1,5	red
A2	2	465,0	1,5	red
A3	2	465,0	1,5	red
B1	2	465,0	1,5	blue
B2	2	465,0	1,5	blue
B3	2	465,0	1,5	blue
C1	2	465,0	1,5	yellow
C2	2	465,0	1,5	yellow
C3	2	465,0	1,5	yellow
D1	2	465,0	1,5	yellow
D2	2	465,0	1,5	yellow
Stabi-brk	2	214,0	1,3	pink
Stabi	2	560,0	1,5	red

Brake no.	Quantity	Length [cm]	Diameter [mm]	colour
brk1	2	238,5	1,1	pink
brk2	2	205,5	1,1	pink
brk3	2	186,0	1,1	pink
brk4	2	174,5	1,1	pink
brk5	2	161,5	1,1	pink
brk6	2	151,0	1,1	pink
brk7	2	147,0	1,1	pink
brk8	2	146,5	1,1	pink
brk9	2	138,5	1,1	pink
brk10	2	125,0	1,1	pink
brk11	2	123,0	1,1	pink
brkou	10	170,0	1,3	pink
brkuu	6	230,0	1,5	red
Brk Main	2	184,0	2,3 *)	orange

*) 2,3 Dyneema

line material:

1,1 = cousin ultimate 989 1,1mm

1,3 = cousin ultimate 989 1,3mm

1,5 = cousin ultimate 989 1,5mm

total length	no. of lines
37075	246

average line length (A to Brk.)
150,71

Manufacturing Check Sheet for Paragliders

Piece Check

Glider Type: UP XA45L Ascent L - DHV	Serial No.:
Rev. No.: 1	Date: 1.12.2006

Line lengths [cm]

R. No.	Area																																
	A										B										C												
		Left					Right						Left					Right						Left					Right				
	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm
1	753,5											743,0											747,5										
2	744,5											733,5											738,0										
3	745,0											734,5											738,5										
5	745,0											734,0											738,0										
6	749,0											738,5											742,5										
8	743,0											735,5											738,0										
9	740,0											731,5											735,0										
11	737,0											729,0											731,5										
12	738,0											730,0											730,5										
14	727,5											719,0											719,5										
15	722,0											714,0											714,0										
17	714,0											707,0											706,5										
18	710,5											704,0											703,5										
19	707,5																																
20	684,0											677,5											677,0										
21	663,5																						666,0										

Total line length in cm from riser quick link to canopy including line loops, following DHV measuring method. Line load is 5 daN.

on new wings the center A- and B-lines can be shorter appr. 0,5cm. as the center of wing has the most load the lines will fit themselves during use to the nominal length.

Rib numbering starts in the center of the wing. Wing sides in flight direction, seen from top.

Measurements are rounded to the next 0,5 cm. Please mark measurements relative to nominal by crossing X

R. No.	Area										E										Brake										rib no. brakes	
	D																															
		Left				Right					Left				Right					Left				Right								
	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm				
1	761,0											770,0											865,5						1			
2	752,5											762,5											831,5						3			
3	752,5											762,5											811,0						5			
5	752,5											761,5											799,0						7			
6	756,0											764,5											785,5						9			
8	751,5											760,5											774,5						11			
9	747,5											755,5											770,5						13			
11	741,5											749,0											770,0						15			
12	741,0											746,0											761,5						17			
14	731,5																						747,5						19			
15	724,0																						735,5						21			
17	714,0																															
18	709,0																															
19																																
20	681,5																						brakes measured inkl.10cm-loop									



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Single Line Lengths

Glider Type: UP XA45L Ascent L - DHV

Rev. No.: 1

Serial No.:

Date: 1.12.2006

Line no.	Quantity	Length [cm]	Diameter [mm]	colour
ao1	2	92,5	1,1	pink
ao2	2	83,5	1,1	pink
ao3	2	84,0	1,1	pink
ao4	2	84,0	1,1	pink
ao5	2	88,0	1,1	pink
ao6	2	82,0	1,1	pink
ao7	2	79,0	1,1	pink
ao8	2	76,0	1,1	pink
ao9	2	77,0	1,1	pink
ao10	2	67,0	1,1	pink
ao11	2	61,5	1,1	pink
ao12	2	53,5	1,1	pink
ao13	2	50,0	1,1	pink
ao14	2	125,5	1,1	pink
ao15	2	102,0	1,1	pink
ao16	2	81,5	1,1	pink
bo1	2	82,0	1,1	blue
bo2	2	72,5	1,1	blue
bo3	2	73,5	1,1	blue
bo4	2	73,0	1,1	blue
bo5	2	77,5	1,1	blue
bo6	2	74,5	1,1	blue
bo7	2	70,5	1,1	blue
bo8	2	68,0	1,1	blue
bo9	2	69,0	1,1	blue
bo10	2	58,5	1,1	blue
bo11	2	53,5	1,1	blue
bo12	2	46,5	1,1	blue
bo13	2	43,5	1,1	blue
bo14	2	95,5	1,1	blue
co1	2	87,0	1,1	yellow
co2	2	77,5	1,1	yellow
co3	2	78,0	1,1	yellow
co4	2	77,5	1,1	yellow
co5	2	82,0	1,1	yellow
co6	2	77,5	1,1	yellow
co7	2	74,5	1,1	yellow
co8	2	71,0	1,1	yellow
co9	2	70,0	1,1	yellow
co10	2	100,5	1,1	yellow
co11	2	95,0	1,1	yellow
co12	2	87,5	1,1	yellow
co13	2	84,5	1,1	yellow
co14	2	95,0	1,1	yellow
co15	2	84,0	1,1	yellow

Line no.	Quantity	Length [cm]	Diameter [mm]	colour
do1	2	101,0	1,1	yellow
do2	2	92,5	1,1	yellow
do3	2	92,5	1,1	yellow
do4	2	92,5	1,1	yellow
do5	2	96,0	1,1	yellow
do6	2	91,5	1,1	yellow
do7	2	87,5	1,1	yellow
do8	2	81,5	1,1	yellow
do9	2	81,0	1,1	yellow
do10	2	112,5	1,1	yellow
do11	2	105,0	1,1	yellow
do12	2	95,0	1,1	yellow
do13	2	90,0	1,1	yellow
do14	2	99,5	1,1	yellow
eo1	2	110,0	1,1	yellow
eo2	2	102,5	1,1	yellow
eo3	2	102,5	1,1	yellow
eo4	2	101,5	1,1	yellow
eo5	2	104,5	1,1	yellow
eo6	2	100,5	1,1	yellow
eo7	2	95,5	1,1	yellow
eo8	2	89,0	1,1	yellow
eo9	2	86,0	1,1	yellow
aou1	12	177,0	1,3	pink
bou1	12	177,0	1,3	blue
cou1	8	177,0	1,3	yellow
cou2	4	135,5	1,3	yellow
dou1	8	177,0	1,3	yellow
A1	2	484,0	1,5	red
A2	2	484,0	1,5	red
A3	2	484,0	1,5	red
B1	2	484,0	1,5	blue
B2	2	484,0	1,5	blue
B3	2	484,0	1,5	blue
C1	2	484,0	1,5	yellow
C2	2	484,0	1,5	yellow
C3	2	484,0	1,5	yellow
D1	2	484,0	1,5	yellow
D2	2	484,0	1,5	yellow
Stabi-brk	2	222,5	1,3	pink
Stabi	2	582,5	1,5	red

Brake no.	Quantity	Length [cm]	Diameter [mm]	colour
brk1	2	248,0	1,1	pink
brk2	2	214,0	1,1	pink
brk3	2	193,5	1,1	pink
brk4	2	181,5	1,1	pink
brk5	2	168,0	1,1	pink
brk6	2	157,0	1,1	pink
brk7	2	153,0	1,1	pink
brk8	2	152,5	1,1	pink
brk9	2	144,0	1,1	pink
brk10	2	130,0	1,1	pink
brk11	2	128,0	1,1	pink
brkou	10	177,0	1,3	pink
brkuu	6	239,5	1,5	red
Brk Main	2	191,5	2,3 *)	orange

*) 2,3 Dyneema

line material:

1,1 = cousin ultimate 989 1,1mm

1,3 = cousin ultimate 989 1,3mm

1,5 = cousin ultimate 989 1,5mm

total length	no. of lines
38602	246

average line length (A to Brk.)
156,92

Line Check Sheet for Paragliders

Piece Check

Glider Type: UP XA45XL Ascent XL	Serial No.:
Rev. No.: 1	Date: 15.02.2007

Line lengths [cm]

R. No.	Area																													
No.	A										B										C									
	Nom.	Left				Right				Nom.	Left				Right				Nom.	Left				Right						
		-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm		+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm		-1 cm	0 cm	+1 cm	+2 cm							
1	785,5									775,0										778,5										
2	776,0									764,5										769,0										
3	776,5									765,5										769,5										
5	778,0									766,5										770,5										
6	782,5									771,5										775,0										
8	778,5									770,0										774,0										
9	775,0									765,5										770,5										
11	771,5									763,5										766,5										
12	773,0									764,5										766,0										
14	763,0									753,5										754,5										
15	757,0									748,5										749,0										
17	748,5									741,0										740,5										
18	745,0									738,5										737,5										
19	742,0																													
20	717,5									711,0										710,5										
21	696,0																			698,5										

Total line length in cm from riser quick link to canopy including line loops, following DHV measuring method. Line load is 5 daN.

Rib numbering starts in the center of the wing. Wing sides in flight direction, seen from top.

Measurements are rounded to the next 0,5 cm. Please mark measurements relative to nominal by crossing X

R. No.	Area										E										Brake										rib no. brakes		
	D																																
	Left					Right					Left					Right					Left					Right							
	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	Nom.	-2 cm	-1 cm	0 cm	+1 cm	+2 cm	-2 cm	-1 cm	0 cm	+1 cm	+2 cm
1	792,0											802,0											907,5									1	
2	783,5											794,0											871,5									3	
3	783,5											794,0											850,0									5	
5	785,0											794,5											837,5									7	
6	789,0											797,5											823,0									9	
8	787,5											796,5											812,0									11	
9	783,0											792,0											807,5									13	
11	777,0											784,5											807,0									15	
12	776,5											781,5											798,0									17	
14	767,0																						783,5									19	
15	759,0																						771,0									21	
17	749,0																																
18	743,5																																
19																																	
20	714,5																						brakes measured inkl.10cm-loop										



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Single Line Lengths

Glider Type: UP XA45XL Ascent XL

Rev. No.: 1

Serial No.:

Date: 15.02.2007

Line no.	Quantity	Length [cm]	Diameter [mm]	colour
ao1	2	92,0	1,1	pink
ao2	2	82,5	1,1	pink
ao3	2	83,0	1,1	pink
ao4	2	84,5	1,1	pink
ao5	2	89,0	1,1	pink
ao6	2	85,5	1,1	pink
ao7	2	82,0	1,1	pink
ao8	2	78,5	1,1	pink
ao9	2	80,0	1,1	pink
ao10	2	70,5	1,1	pink
ao11	2	64,5	1,1	pink
ao12	2	56,0	1,1	pink
ao13	2	52,5	1,1	pink
ao14	2	131,5	1,1	pink
ao15	2	107,0	1,1	pink
ao16	2	85,5	1,1	pink
bo1	2	81,5	1,1	blue
bo2	2	71,0	1,1	blue
bo3	2	72,0	1,1	blue
bo4	2	73,0	1,1	blue
bo5	2	78,0	1,1	blue
bo6	2	77,0	1,1	blue
bo7	2	72,5	1,1	blue
bo8	2	70,5	1,1	blue
bo9	2	71,5	1,1	blue
bo10	2	61,0	1,1	blue
bo11	2	56,0	1,1	blue
bo12	2	48,5	1,1	blue
bo13	2	46,0	1,1	blue
bo14	2	100,5	1,1	blue
co1	2	86,0	1,1	yellow
co2	2	76,5	1,1	yellow
co3	2	77,0	1,1	yellow
co4	2	78,0	1,1	yellow
co5	2	82,5	1,1	yellow
co6	2	81,5	1,1	yellow
co7	2	78,0	1,1	yellow
co8	2	74,0	1,1	yellow
co9	2	73,5	1,1	yellow
co10	2	105,5	1,1	yellow
co11	2	100,0	1,1	yellow
co12	2	91,5	1,1	yellow
co13	2	88,5	1,1	yellow
co14	2	100,0	1,1	yellow
co15	2	88,0	1,1	yellow

Line no.	Quantity	Length [cm]	Diameter [mm]	colour
do1	2	100,5	1,1	yellow
do2	2	92,0	1,1	yellow
do3	2	92,0	1,1	yellow
do4	2	93,5	1,1	yellow
do5	2	97,5	1,1	yellow
do6	2	96,0	1,1	yellow
do7	2	91,5	1,1	yellow
do8	2	85,5	1,1	yellow
do9	2	85,0	1,1	yellow
do10	2	118,0	1,1	yellow
do11	2	110,0	1,1	yellow
do12	2	100,0	1,1	yellow
do13	2	94,5	1,1	yellow
do14	2	104,0	1,1	yellow
eo1	2	110,5	1,1	yellow
eo2	2	102,5	1,1	yellow
eo3	2	102,5	1,1	yellow
eo4	2	103,0	1,1	yellow
eo5	2	106,0	1,1	yellow
eo6	2	105,0	1,1	yellow
eo7	2	100,5	1,1	yellow
eo8	2	93,0	1,1	yellow
eo9	2	90,0	1,1	yellow
aou1	12	185,5	1,3	pink
bou1	12	185,5	1,3	blue
cou1	8	185,5	1,3	yellow
cou2	4	142,0	1,3	yellow
dou1	8	185,5	1,3	yellow
A1	2	507,5	1,5	red
A2	2	507,5	1,5	red
A3	2	507,5	1,5	red
B1	2	507,5	1,5	blue
B2	2	507,5	1,5	blue
B3	2	507,5	1,5	blue
C1	2	507,5	1,5	yellow
C2	2	507,5	1,5	yellow
C3	2	507,5	1,5	yellow
D1	2	507,5	1,5	yellow
D2	2	507,5	1,5	yellow
Stabi-brk	2	233,5	1,3	pink
Stabi	2	611,0	1,5	red

Brake no.	Quantity	Length [cm]	Diameter [mm]	colour
brk1	2	260,5	1,1	pink
brk2	2	224,5	1,1	pink
brk3	2	203,0	1,1	pink
brk4	2	190,5	1,1	pink
brk5	2	176,0	1,1	pink
brk6	2	165,0	1,1	pink
brk7	2	160,5	1,1	pink
brk8	2	160,0	1,1	pink
brk9	2	151,0	1,1	pink
brk10	2	136,5	1,1	pink
brk11	2	134,0	1,1	pink
brkou	10	185,5	1,3	pink
brkuu	6	251,0	1,5	red
Brk Main	2	201,0	2,3 *)	orange

*) 2,3 Dyneema

line material:

1,1 = cousin ultimate 989 1,1mm

1,3 = cousin ultimate 989 1,3mm

1,5 = cousin ultimate 989 1,5mm

total length	no. of lines
40242	246

average line length (A to Brk.)
163,59