

Manufacturing Check Sheet for Paragliders

Piece Check

Glider Type: UP Summit 2 S (XC02 S)	Serial No.:
Rev. No.: 2	Date: 11.03.2003

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		-2 cm	-1 cm	0 cm	+1 cm	+2 cm					
2	669,0										662,5										669,0												
3	664,0										658,5										664,5												
6	659,5										654,0										660,0												
7	661,5										656,0										662,0												
10	657,0										651,5										657,0												
11	652,5										648,0										653,0												
14	649,0										644,5										649,0												
15	649,5										645,5										650,0												
18	646,0										642,5										648,0												
19	641,5										639,0										643,5												
22	633,5										631,0										635,5												
23	631,5										629,5										633,5												
26	627,5										626,0										630,5												
27	625,5										624,5										627,0												
29	602,0										598,0										601,5												
31	584,5																				588,0												

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																																
	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	-2 cm	-1 cm	0 cm	+1 cm	+2 cm
2	677,5																						745,0										
3	673,0																						729,5										
6	669,5																						720,0										
7	670,5																						716,0										
10	666,5																						708,0										
11	662,5																						696,0										
14	658,5																						690,5										
15	659,0																						692,0										
18	655,0																						693,0										
19	650,0																						684,5										
22	639,5																						679,5										
23	637,0																						675,0										
26	634,0																						672,0										
27	629,0																						667,5										
25																							667,0										



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Single Line Lengths

Glider Type: UP Summit 2 S (XC02 S)	Serial No.:
Rev. No.: 2	Date: 11.03.2003

Line no.	Quantity	Length [cm]	Diameter [mm]
ao1	2	67,5	1,1
ao2	2	62,5	1,1
ao3	2	58,0	1,1
ao4	2	60,0	1,1
ao5	2	55,5	1,1
ao6	2	51,0	1,1
ao7	2	47,5	1,1
ao8	2	48,0	1,1
ao9	2	44,5	1,1
ao10	2	40,0	1,1
ao11	2	32,0	1,1
ao12	2	30,0	1,1
ao13	2	26,0	1,1
ao14	2	24,0	1,1
ao15	2	77,0	1,1
ao16	2	59,5	1,1
bo1	2	61,0	1,1
bo2	2	57,0	1,1
bo3	2	52,5	1,1
bo4	2	54,5	1,1
bo5	2	50,0	1,1
bo6	2	46,5	1,1
bo7	2	43,0	1,1
bo8	2	44,0	1,1
bo9	2	41,0	1,1
bo10	2	37,5	1,1
bo11	2	29,5	1,1
bo12	2	28,0	1,1
bo13	2	24,5	1,1
bo14	2	23,0	1,1
bo15	2	73,0	1,1
co1	2	67,5	1,1
co2	2	63,0	1,1
co3	2	58,5	1,1
co4	2	60,5	1,1
co5	2	55,5	1,1
co6	2	51,5	1,1
co7	2	47,5	1,1
co8	2	48,5	1,1
co9	2	46,5	1,1
co10	2	42,0	1,1
co11	2	34,0	1,1
co12	2	32,0	1,1
co13	2	29,0	1,1
co14	2	25,5	1,1
co15	2	76,5	1,1
co16	2	63,0	1,1

Line no.	Quantity	Length [cm]	Diameter [mm]
do1	2	76,0	1,1
do2	2	71,5	1,1
do3	2	68,0	1,1
do4	2	69,0	1,1
do5	2	65,0	1,1
do6	2	61,0	1,1
do7	2	57,0	1,1
do8	2	57,5	1,1
do9	2	53,5	1,1
do10	2	48,5	1,1
do11	2	38,0	1,1
do12	2	35,5	1,1
do13	2	32,5	1,1
do14	2	27,5	1,1
aou	14	172,0	1,7
bou	14	172,0	1,7
cou	14	172,0	1,1
dou	12	172,0	1,1
A1	2	430,0	2,15
A2	2	430,0	2,15
A3	2	430,0	2,15
B1	2	430,0	2,15
B2	2	430,0	2,15
B3	2	430,0	2,15
C1	2	430,0	1,7
C2	2	430,0	1,7
C3	2	430,0	1,7
D1	2	430,0	1,7
D2	2	430,0	1,7
Stabi	2	525,0	1,7

Brake no.	Quantity	Length [cm]	Diameter [mm]
brk1	2	155,5	1,1
brk2	2	140,0	1,1
brk3	2	130,5	1,1
brk4	2	126,5	1,1
brk5	2	118,5	1,1
brk6	2	106,5	1,1
brk7	2	101,0	1,1
brk8	2	102,5	1,1
brk9	2	103,5	1,1
brk10	2	95,0	1,1
brk11	2	90,0	1,1
brk12	2	85,5	1,1
brk13	2	82,5	1,1
brk14	2	78,0	1,1
brk15	2	77,5	1,1
brkou	14	115,0	1,1
brkuu	6	285,0	1,7
Brk Main	2	190,0	2,3 *)

*) 2,3 Dyneema

total length	no. of lines
32473	252

average line length (A to Brk.)
654,66



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Manufacturing Check Sheet for Paragliders

Piece Check

Glider Type: UP Summit 2 (XC 02 (M))	Serial No.:
Rev. No.: 1	Date: 14.11.2002

Line lengths [cm]

R. No.	Area																															
	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									
2	700,5										694,0										700,5											
3	695,5										689,5											696,0										
6	691,0										685,0											691,5										
7	693,0										687,0											693,5										
10	688,0										682,5											688,0										
11	683,5										678,5											684,0										
14	679,5										675,0											679,5										
15	680,5										676,0											681,0										
18	676,5										673,0											678,0										
19	672,0										669,5											673,5										
22	663,5										661,0											665,0										
23	661,5										659,5											663,0										
26	657,0										655,5											660,0										
27	655,0										654,0											658,0										
29	631,0										627,0											630,0										
31	613,0																					616,0										

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 D										Area E										Brake												
	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
2	710,0																						775,5										
3	705,5																						761,0										
6	701,5																						752,0										
7	703,0																						749,0										
10	698,5																						741,5										
11	694,5																						729,5										
14	690,0																						724,5										
15	691,0																						725,5										
18	687,0																						725,5										
19	682,0																						716,0										
22	671,0																						709,5										
23	668,5																						705,0										
26	665,5																						701,5										
27	660,5																						697,0										
25																							696,5										



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Single Line Lengths

Glider Type: UP Summit 2 (XC 02 (M))	Serial No.:
Rev. No.: 1	Date: 14.11.2002

Line no.	Quantity	Length [cm]	Diameter [mm]
ao1	2	71,0	1,1
ao2	2	66,0	1,1
ao3	2	61,5	1,1
ao4	2	63,5	1,1
ao5	2	58,5	1,1
ao6	2	54,0	1,1
ao7	2	50,0	1,1
ao8	2	51,0	1,1
ao9	2	47,0	1,1
ao10	2	42,5	1,1
ao11	2	34,0	1,1
ao12	2	32,0	1,1
ao13	2	27,5	1,1
ao14	2	25,5	1,1
ao15	2	81,0	1,1
ao16	2	63,0	1,1
bo1	2	64,5	1,1
bo2	2	60,0	1,1
bo3	2	55,5	1,1
bo4	2	57,5	1,1
bo5	2	53,0	1,1
bo6	2	49,0	1,1
bo7	2	45,5	1,1
bo8	2	46,5	1,1
bo9	2	43,5	1,1
bo10	2	40,0	1,1
bo11	2	31,5	1,1
bo12	2	30,0	1,1
bo13	2	26,0	1,1
bo14	2	24,5	1,1
bo15	2	77,0	1,1
co1	2	71,0	1,1
co2	2	66,5	1,1
co3	2	62,0	1,1
co4	2	64,0	1,1
co5	2	58,5	1,1
co6	2	54,5	1,1
co7	2	50,0	1,1
co8	2	51,5	1,1
co9	2	48,5	1,1
co10	2	44,0	1,1
co11	2	35,5	1,1
co12	2	33,5	1,1
co13	2	30,5	1,1
co14	2	28,5	1,1
co15	2	80,0	1,1
co16	2	66,0	1,1

Line no.	Quantity	Length [cm]	Diameter [mm]
do1	2	80,5	1,1
do2	2	76,0	1,1
do3	2	72,0	1,1
do4	2	73,5	1,1
do5	2	69,0	1,1
do6	2	65,0	1,1
do7	2	60,5	1,1
do8	2	61,5	1,1
do9	2	57,5	1,1
do10	2	52,5	1,1
do11	2	41,5	1,1
do12	2	39,0	1,1
do13	2	36,0	1,1
do14	2	31,0	1,1
aou	14	180,0	1,7
bou	14	180,0	1,7
cou	14	180,0	1,1
dou	12	180,0	1,1
A1	2	450,0	2,15
A2	2	450,0	2,15
A3	2	450,0	2,15
B1	2	450,0	2,15
B2	2	450,0	2,15
B3	2	450,0	2,15
C1	2	450,0	1,7
C2	2	450,0	1,7
C3	2	450,0	1,7
D1	2	450,0	1,7
D2	2	450,0	1,7
Stabi	2	550,0	1,7

Brake no.	Quantity	Length [cm]	Diameter [mm]
brk1	2	156,0	1,1
brk2	2	141,5	1,1
brk3	2	132,5	1,1
brk4	2	129,5	1,1
brk5	2	122,0	1,1
brk6	2	110,0	1,1
brk7	2	105,0	1,1
brk8	2	106,0	1,1
brk9	2	106,0	1,1
brk10	2	96,5	1,1
brk11	2	90,0	1,1
brk12	2	85,5	1,1
brk13	2	82,0	1,1
brk14	2	77,5	1,1
brk15	2	77,0	1,1
brkou	14	120,0	1,1
brkuu	6	300,0	1,7
Brk Main	2	200,0	2,3 *)

*) 2,3 Dyneema

total length	no. of lines
33978	252

average line length (A to Brk.)
685,57



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Manufacturing Check Sheet for Paragliders

Piece Check

Glider Type: UP Summit 2 L (XC02 L)	Serial No.:
Rev. No.: 2	Date: 11.03.2003

Line lengths [cm]

R. No.	Area																																
	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		-2 cm	-1 cm	0 cm	+1 cm	+2 cm					
2	731,0										724,5											731,5											
3	726,0										719,5											727,0											
6	721,5										715,0											722,5											
7	723,5										717,0											724,5											
10	718,0										712,5											718,5											
11	713,5										708,0											714,5											
14	709,5										704,5											710,0											
15	710,5										705,5											711,5											
18	706,0										702,0											708,0											
19	701,5										698,5											703,5											
22	692,5										689,5											694,5											
23	690,5										688,0											692,5											
26	685,5										683,5											688,5											
27	683,5										682,0											686,5											
29	659,0										655,0											658,5											
31	640,5																					644,0											

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 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	-2 cm	-1 cm	0 cm	+1 cm
2	740,0																						810,5									
3	735,5																						795,5									
6	731,0																						786,0									
7	733,0																						783,0									
10	728,0																						775,0									
11	724,0																						762,5									
14	719,0																						757,0									
15	720,5																						758,5									
18	716,0																						758,5									
19	711,0																						748,5									
22	699,0																						741,5									
23	696,5																						737,0									
26	693,0																						733,0									
27	688,0																						728,5									
25																							728,0									



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Single Line Lengths

Glider Type: UP Summit 2 L (XC02 L)	Serial No.:
Rev. No.: 2	Date: 11.03.2003

Line no.	Quantity	Length [cm]	Diameter [mm]
ao1	2	73,5	1,1
ao2	2	68,5	1,1
ao3	2	64,0	1,1
ao4	2	66,0	1,1
ao5	2	60,5	1,1
ao6	2	56,0	1,1
ao7	2	52,0	1,1
ao8	2	53,0	1,1
ao9	2	48,5	1,1
ao10	2	44,0	1,1
ao11	2	35,0	1,1
ao12	2	33,0	1,1
ao13	2	28,0	1,1
ao14	2	26,0	1,1
ao15	2	84,0	1,1
ao16	2	65,5	1,1
bo1	2	67,0	1,1
bo2	2	62,0	1,1
bo3	2	57,5	1,1
bo4	2	59,5	1,1
bo5	2	55,0	1,1
bo6	2	50,5	1,1
bo7	2	47,0	1,1
bo8	2	48,0	1,1
bo9	2	44,5	1,1
bo10	2	41,0	1,1
bo11	2	32,0	1,1
bo12	2	30,5	1,1
bo13	2	26,0	1,1
bo14	2	24,5	1,1
bo15	2	80,0	1,1
co1	2	74,0	1,1
co2	2	69,5	1,1
co3	2	65,0	1,1
co4	2	67,0	1,1
co5	2	61,0	1,1
co6	2	57,0	1,1
co7	2	52,5	1,1
co8	2	54,0	1,1
co9	2	50,5	1,1
co10	2	46,0	1,1
co11	2	37,0	1,1
co12	2	35,0	1,1
co13	2	31,0	1,1
co14	2	29,0	1,1
co15	2	83,5	1,1
co16	2	69,0	1,1

Line no.	Quantity	Length [cm]	Diameter [mm]
do1	2	82,5	1,1
do2	2	78,0	1,1
do3	2	73,5	1,1
do4	2	75,5	1,1
do5	2	70,5	1,1
do6	2	66,5	1,1
do7	2	61,5	1,1
do8	2	63,0	1,1
do9	2	58,5	1,1
do10	2	53,5	1,1
do11	2	41,5	1,1
do12	2	39,0	1,1
do13	2	35,5	1,1
do14	2	30,5	1,1
aou	14	188,0	1,7
bou	14	188,0	1,7
cou	14	188,0	1,1
dou	12	188,0	1,1
A1	2	470,0	2,15
A2	2	470,0	2,15
A3	2	470,0	2,15
B1	2	470,0	2,15
B2	2	470,0	2,15
B3	2	470,0	2,15
C1	2	470,0	1,7
C2	2	470,0	1,7
C3	2	470,0	1,7
D1	2	470,0	1,7
D2	2	470,0	1,7
Stabi	2	575,0	1,7

Brake no.	Quantity	Length [cm]	Diameter [mm]
brk1	2	163,0	1,1
brk2	2	148,0	1,1
brk3	2	138,5	1,1
brk4	2	135,5	1,1
brk5	2	127,5	1,1
brk6	2	115,0	1,1
brk7	2	109,5	1,1
brk8	2	111,0	1,1
brk9	2	111,0	1,1
brk10	2	101,0	1,1
brk11	2	94,0	1,1
brk12	2	89,5	1,1
brk13	2	85,5	1,1
brk14	2	81,0	1,1
brk15	2	80,5	1,1
brkou	14	125,0	1,1
brkuu	6	315,0	1,7
Brk Main	2	208,0	2,3 *)

*) 2,3 Dyneema

total length	no. of lines
35419	252

average line length (A to Brk.)
715,67



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