

SKIN 4 P

Technical *specifications*

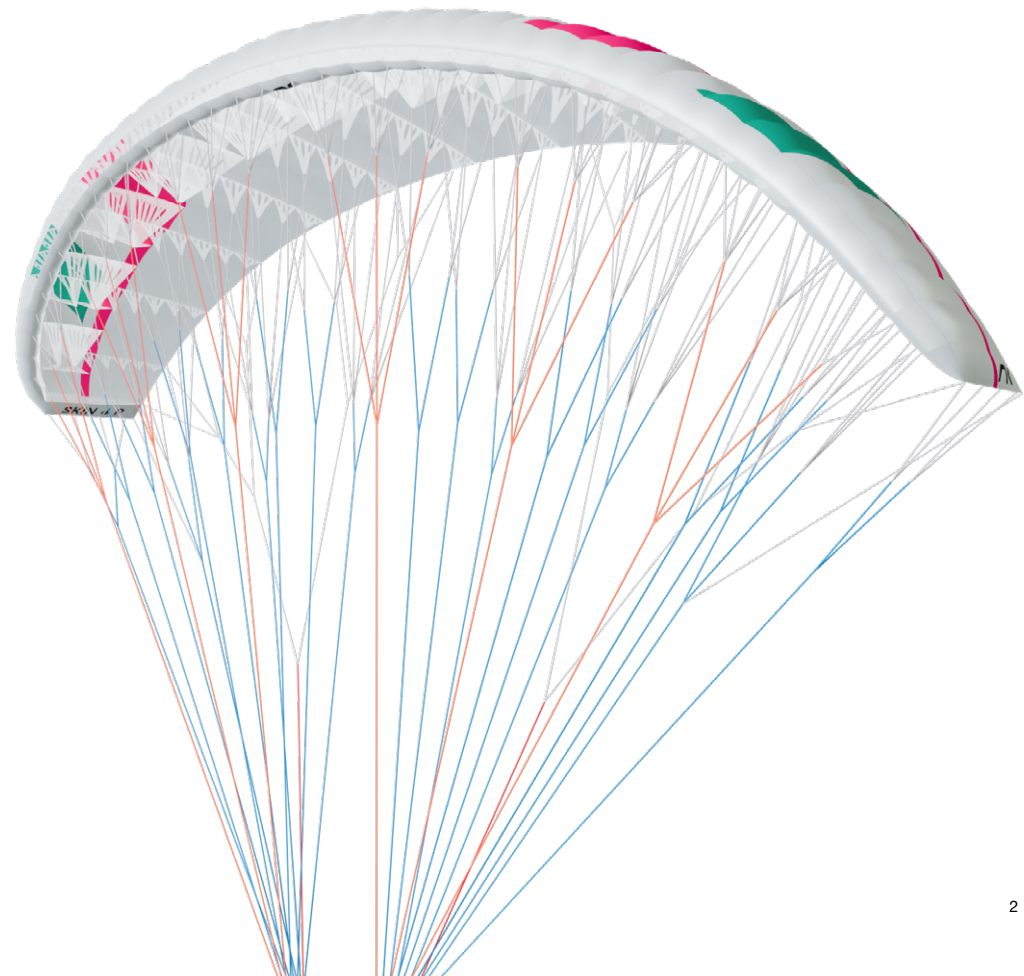


PIVIUK BEYOND
THE GLIDE

TECHNICAL SPECIFICATIONS

			14	16	18	20
Cells	Number		39	39	39	39
Aspect Ratio	Flat		4,90	4,90	4,90	4,90
	Projected		3,93	3,93	3,93	3,93
Area	Flat	m2	14	16	18	20
	Projected	m2	11,84	13,53	15,22	16,91
Span	Flat	m	8,28	8,85	9,39	9,90
Chord	Max	m	2,02	2,16	2,30	2,42
Lines	Total	m	287	308	328	346
	Main		3/4/6	3/4/6	3/4/6	3/4/6
Risers	Number		A/B/C	A/B/C	A/B/C	A/B/C
Glider weight		kg	0,95*	1,09	1,19	1,29
Total weight in flight	Min-max	kg	50-80	60-85	70-90	85-110
Glider volume		L	4,4	5,20	6,15	7,10
Certification			EN/NfL C	EN/NfL B	EN/NfL B	EN/NfL B

*Pending confirmation.
The total weight of the wing may differ ±2% due to variations in the weight of the fabric supplied by the manufacturers.



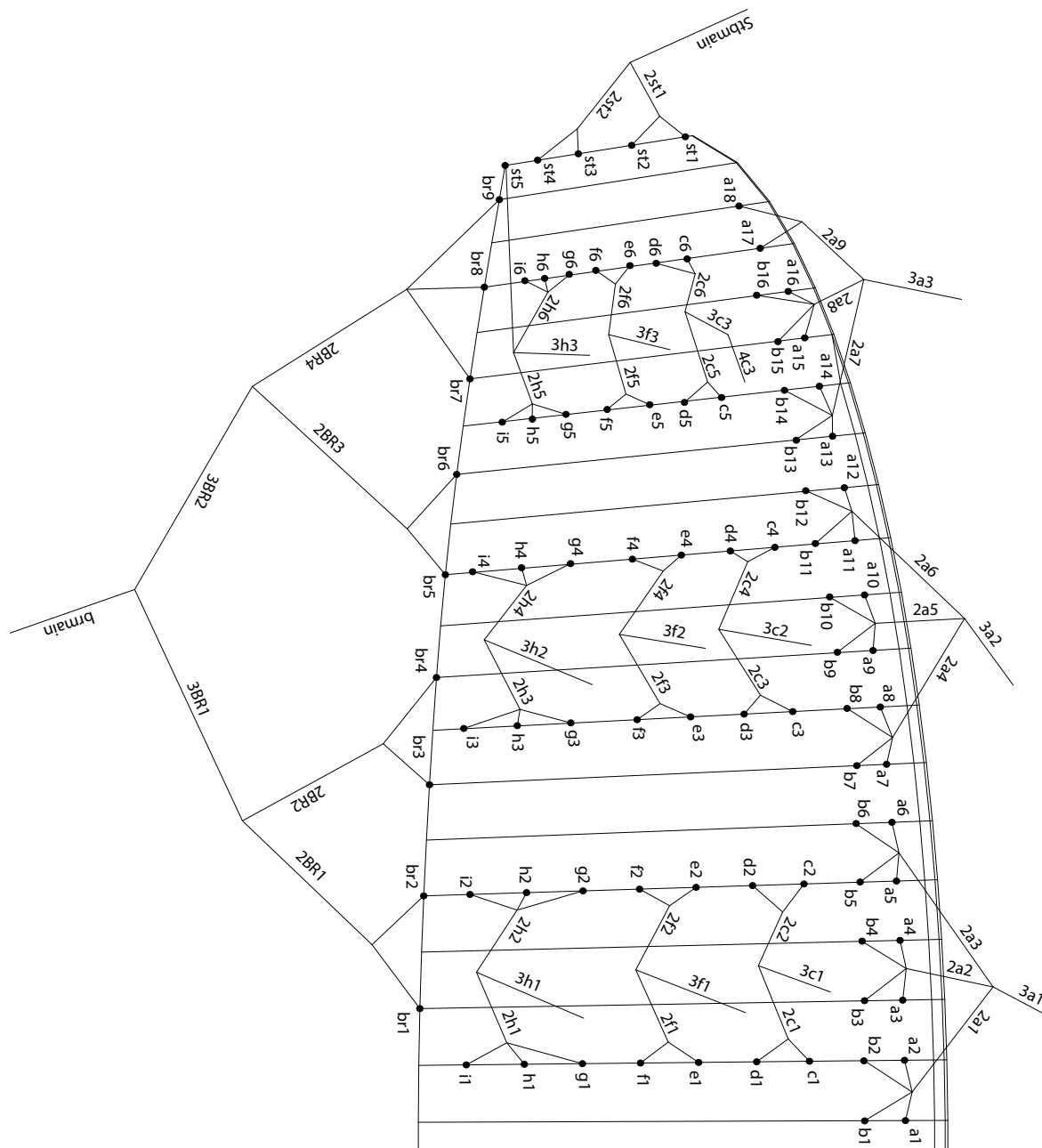
MATERIALS

CANOPY	FABRIC CODE	SUPPLIER
UPPER SURFACE	D10-22	DOMINICO TEX CO (KOREA)
BOTTOM SURFACE	D10-22	DOMINICO TEX CO (KOREA)
RIBS	70000 E91	PORCHER IND (FRANCE)
	D10-22	DOMINICO TEX CO (KOREA)
LOOPS	LKI - 10	KOLON IND. (KOREA)
REINFORCEMENT LOOPS	9017	PORCHER IND (FRANCE)
TRAILING EDGE REINFORCEMENT	MYLAR 20	D-P (GERMANY)
RIB REINFORCEMENT	LTN-0.5 STICK	SPORTWARE CO. (CHINA)
THREAD	SERAFIL 60	AMAN (GERMANY)

SUSPENSION LINES	FABRIC CODE	SUPPLIER
UPPER CASCADES	DC - 40	LIROS GMHB (GERMANY)
UPPER CASCADES	DC - 60	LIROS GMHB (GERMANY)
MIDDLE CASCADES	DC - 60	LIROS GMHB (GERMANY)
MIDDLE CASCADES	8001/U - 50	EDELRID (GERMANY)
MIDDLE CASCADES	8001/U - 70	EDELRID (GERMANY)
MIDDLE CASCADES	8001/U - 90	EDELRID (GERMANY)
MIDDLE CASCADES	8001/U - 130	EDELRID (GERMANY)
MAIN	DC - 60	LIROS GMHB (GERMANY)
MAIN	8001/U - 90	EDELRID (GERMANY)
MAIN	8001/U - 130	EDELRID (GERMANY)
MAIN	8001/U - 140	EDELRID (GERMANY)
MAIN	8001/U - 190	EDELRID (GERMANY)
MAIN	TNL - 140	EDELRID (GERMANY)
STAB MAIN	8001/U - 50	EDELRID (GERMANY)
MAIN BREAK	TARAX - 200	EDELRID (GERMANY)
THREAD	SERAFIL 60	AMAN (GERMANY)

RISERS	FABRIC CODE	SUPPLIER
MATERIAL	10148	LIROS GMHB (GERMANY)
COLOR INDICATOR	PAD	TECNI SANGLES (FRANCE)
THREAD	V138	COATS (ENGLAND)

LINE PLAN



LINE REPLACEMENT

The use of new high performance materials in modern wings is now common. The advantages of using these materials in terms of performance are widely acknowledged as part of our sport's evolution. However, along with those technological advances come additional responsibilities which cannot be avoided. As a result, line inspection and replacement must be carried out more frequently. That increased frequency appears to be encouraging some pilots to try to perform line replacement themselves.

WE STRONGLY RECOMMEND ANY LINE REPLACEMENT IS PERFORMED BY AN AUTHORISED SPECIALIST ONLY.

Ultimately, if the pilot decides to perform any line replacement without professional oversight they therefore assume all responsibility. In this case, these guidelines will have to be followed.

BEFORE REMOVING ANY LINES, CHECK:

- That the line plan is correct according to the glider model and size.
- That the line kit is complete and correct.
- Never assume but always check each individual line for the correct specification.

AFTER CONFIRMING THAT ALL LINES ARE CORRECT:

- Fit the new line(s) WITHOUT removing the label.
- Once replaced, measure each line length to confirm the correct measurement.
- Inflate the wing to check for any irregularities.
- The line labels may then be removed but NOT BEFORE completion of the line replacement.

Niviuk strongly recommends for any line replacement to be carried out by an authorised professional only, and will not accept responsibility for any damage or injury caused as a result of incorrect re-assembly.

RISER PLAN



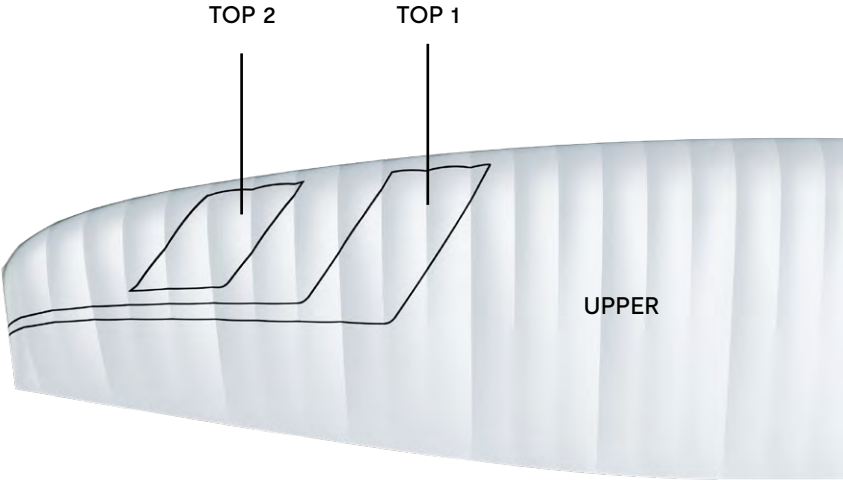
COLORS



SWAN	UPPER	WHITE	LOWER	WHITE
	TOP 1	PINK		
	TOP 2	SPECTRA GREEN		



HALO	UPPER	DARK BRICK	LOWER	DARK BRICK
	TOP 1	WHITE		
	TOP 2	DARK		



WING LOAD

SKIN 4 P

14			16			18			20		
P.T.V.		KG/M2	P.T.V.		KG/M2	P.T.V.		KG/M2	P.T.V.		KG/M2
50	=	3,57	60	=	3,75	70	=	3,89	85	=	4,25
51	=	3,64	61	=	3,81	71	=	3,94	86	=	4,30
52	=	3,71	62	=	3,88	72	=	4,00	87	=	4,35
53	=	3,79	63	=	3,94	73	=	4,06	88	=	4,40
54	=	3,86	64	=	4,00	74	=	4,11	89	=	4,45
55	=	3,93	65	=	4,06	75	=	4,17	90	=	4,50
56	=	4,00	66	=	4,13	76	=	4,22	91	=	4,55
57	=	4,07	67	=	4,19	77	=	4,28	92	=	4,60
58	=	4,14	68	=	4,25	78	=	4,33	93	=	4,65
59	=	4,21	69	=	4,31	79	=	4,39	94	=	4,70
60	=	4,29	70	=	4,38	80	=	4,44	95	=	4,75
61	=	4,36	71	=	4,44	81	=	4,50	96	=	4,80
62	=	4,43	72	=	4,50	82	=	4,56	97	=	4,85
63	=	4,50	73	=	4,56	83	=	4,61	98	=	4,90
64	=	4,57	74	=	4,63	84	=	4,67	99	=	4,95
65	=	4,64	75	=	4,69	85	=	4,72	100	=	5,00
66	=	4,71	76	=	4,75	86	=	4,78	101	=	5,05
67	=	4,79	77	=	4,81	87	=	4,83	102	=	5,10
68	=	4,86	78	=	4,88	88	=	4,89	103	=	5,15
69	=	4,93	79	=	4,94	89	=	4,94	104	=	5,20
70	=	5,00	80	=	5,00	90	=	5,00	105	=	5,25
71	=	5,07	81	=	5,06				106	=	5,30
72	=	5,14	82	=	5,13				107	=	5,35
73	=	5,21	83	=	5,19				108	=	5,40
74	=	5,29	84	=	5,25				109	=	5,45
75	=	5,36	85	=	5,31				110	=	5,50

LINES

SKIN 4 P - 14

ref. mat. kg color mm					ref. mat. kg color mm					ref. mat. kg color mm					ref. mat. kg color mm					ref. mat. kg color mm					ref. mat. kg color mm					ref. mat. kg color mm					ref. mat. kg color mm					ref. mat. kg color mm																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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a1	DC	40	WHITE	471	b1	DC	40	WHITE	553	c1	DC	60	WHITE	970	d1	DC	60	WHITE	960	e1	DC	40	WHITE	975	f1	DC	40	WHITE	986	g1	DC	40	WHITE	1.540	h1	DC	40	WHITE	1.564	i1	DC	40	WHITE	1.612	br1	DC	40	WHT	856																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
a2	DC	40	WHITE	404	b2	DC	40	WHITE	497	c2	DC	60	WHITE	944	d2	DC	60	WHITE	934	e2	DC	40	WHITE	950	f2	DC	40	WHITE	960	g2	DC	40	WHITE	1.502	h2	DC	40	WHITE	1.524	i2	DC	40	WHITE	1.569	br2	DC	40	WHT	625																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
a3	DC	40	WHITE	438	b3	DC	40	WHITE	524	c3	DC	60	WHITE	895	d3	DC	60	WHITE	886	e3	DC	40	WHITE	899	f3	DC	40	WHITE	910	g3	DC	40	WHITE	1.420	h3	DC	40	WHITE	1.442	i3	DC	40	WHITE	1.487	br3	DC	40	WHT	733																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
a4	DC	40	WHITE	415	b4	DC	40	WHITE	505	c4	DC	60	WHITE	820	d4	DC	60	WHITE	815	e4	DC	40	WHITE	826	f4	DC	40	WHITE	835	g4	DC	40	WHITE	1.311	h4	DC	40	WHITE	1.327	i4	DC	40	WHITE	1.365	br4	DC	40	WHT	739																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
a5	DC	40	WHITE	398	b5	DC	40	WHITE	487	c5	DC	60	WHITE	715	d5	DC	60	WHITE	712	e5	DC	40	WHITE	718	f5	DC	40	WHITE	730	g5	DC	40	WHITE	1.213	h5	DC	40	WHITE	1.232	i5	DC	40	WHITE	1.269	br5	DC	40	WHT	636																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
a6	DC	40	WHITE	422	b6	DC	40	WHITE	508	c6	DC	60	WHITE	572	d6	DC	60	WHITE	575	e6	DC	40	WHITE	576	f6	DC	40	WHITE	586	g6	DC	40	WHITE	982	h6	DC	40	WHITE	994	i6	DC	40	WHITE	1.020	br6	DC	40	WHT	536																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
a7	DC	40	WHITE	450	b7	DC	40	WHITE	528	st1	DC	40	WHITE	575																														br7	DC	40	WHT	1.053																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
a8	DC	40	WHITE	392	b8	DC	40	WHITE	480	st2	DC	40	WHITE	561																														br8	DC	40	WHT	1.022																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
a9	DC	40	WHITE	415	b9	DC	40	WHITE	494	st3	DC	40	WHITE	562																														br9	DC	40	WHT	1.075																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
a10	DC	40	WHITE	388	b10	DC	40	WHITE	473	st4	DC	40	WHITE	626																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
a11	DC	40	WHITE	372	b11	DC	40	WHITE	452	st5	DC	40	WHITE	1719																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
a12	DC	40	WHITE	376	b12	DC	40	WHITE	457																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
a13	DC	40	WHITE	417	b13	DC	40	WHITE	479																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
a14	DC	40	WHITE	341	b14	DC	40	WHITE	415																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
a15	DC	40	WHITE	390	b15	DC	40	WHITE	448																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
a16	DC	40	WHITE	330	b16	DC	40	WHITE	399																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
a17	DC	40	WHITE	373																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
a18	DC	40	WHITE	346																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
2A1	8001/U	90	ORANGE	1.403						2C1	8001/U	130	BLUE	792						2F1	8001/U	90	BLUE	697										2H1	8001/U	70	BLUE	359								2BR1	DC	60	WHT	1.006																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
2A2	8001/U	90	ORANGE	1.332						2C2	8001/U	130	BLUE	761						2F2	8001/U	90	BLUE	669											2H2	8001/U	70	BLUE	343									2BR2	DC	60	WHT	720																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
2A3	8001/U	90	ORANGE	1.349						2C3	8001/U	130	BLUE	787						2F3	8001/U	90	BLUE	678											2H3	8001/U	70	BLUE	347									2BR3	DC	60	WHT	1.202																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
2A4	8001/U	90	ORANGE	1.308						2C4	8001/U	130	BLUE	793						2F4	8001/U	90	BLUE	691											2H4	8001/U	70	BLUE	396									2BR4	DC	60	WHT	601																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
2A5	8001/U	90	ORANGE	1.250						2C5	8001/U	130	BLUE	740						2F5	8001/U	90	BLUE	650											2H5	8001/U	70	BLUE	706																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
2A6	8001/U	90	ORANGE	1.253						2C6	8001/U	130	BLUE	737						2F6	8001/U	90	BLUE	649											2H6	8001/U	70	BLUE	795																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
2A7	8001/U	90	ORANGE	1.199						2st1	8001/U	50	BLUE	558																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
2A8	8001/U	90	ORANGE	1.092						2ST2	8001/U	50	BLUE	584																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
2A9	8001/U	70	ORANGE	1.030						3C3	8001/U	130	BLUE	2.457																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
3A1	8001/U	190	ORANGE	3.095						3C1	8001/U	190	BLUE	3.054						3F1	8001/U	130	BLUE	3.132											3H1	8001/U	130	BLUE	2.932									3BR1	DC	60	WHT	1.706																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
3A2	8001/U	190	ORANGE	3.079						3C2	8001/U	190	BLUE	3.022						3F2	8001/U	130	BLUE	3.120											3H2	8001/U	130	BLUE	2.956										3BR2	DC	60	WHT	1.200																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
3A3	8001/U	190	ORANGE	3.026						4C3	TNL	140	RED	606						3F3	8001/U	90	BLUE	3.152										3H3	8001/U	90	BLUE	2.623																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
										STB-MAIN	8001/U	50	BLUE	3.143																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

LINES

SKIN 4 P - 16

[illegible]

LINES

SKIN 4 P - 18

[illegible]

LINES

SKIN 4 P - 20

[illegible]

LINE MEASUREMENTS

SKIN 4 P - 14

LINES HEIGHT + RISER mm											
	A	B	C	D	E	F	G	H	I	br	Stab
1	5413	5495	5264	5254	5252	5263	5279	5303	5352	5557	4728
2	5346	5439	5207	5197	5198	5208	5226	5247	5293	5327	4714
3	5309	5396	5151	5143	5145	5156	5172	5195	5240	5148	4741
4	5286	5377	5083	5077	5084	5093	5113	5129	5166	5154	4805
5	5286	5375	4962	4959	4968	4980	4993	5012	5048	5048	4797
6	5310	5396	4816	4819	4824	4835	4850	4862	4888	4948	
7	5280	5359								4884	
8	5222	5311								4853	
9	5187	5267								4905	
10	5160	5246									
11	5148	5227									
12	5152	5233									
13	5086	5147									
14	5010	5083									
15	4952	5010									
16	4891	4960									
17	4875										
18	4848										

RISERS LENGHT mm			
A	B	C	
480	480	480	STANDARD

SKIN 4 P - 16

LINES HEIGHT + RISER mm											
	A	B	C	D	E	F	G	H	I	br	Stab
1	5782	5871	5630	5618	5617	5629	5646	5672	5724	5974	5066
2	5712	5812	5572	5562	5563	5574	5593	5615	5664	5729	5052
3	5674	5768	5516	5507	5509	5521	5538	5562	5610	5540	5081
4	5651	5749	5445	5439	5446	5456	5477	5494	5534	5548	5149
5	5652	5748	5317	5314	5323	5336	5349	5370	5408	5414	5136
6	5679	5772	5161	5165	5170	5181	5197	5210	5238	5308	
7	5653	5737								5221	
8	5592	5687								5188	
9	5555	5641								5246	
10	5527	5619									
11	5514	5600									
12	5520	5607									
13	5450	5516									
14	5368	5448									
15	5306	5368									
16	5242	5317									
17	5224										
18	5195										

RISERS LENGHT mm			
A	B	C	
480	480	480	STANDARD

LINE MEASUREMENTS

SKIN 4 P - 18

LINES HEIGHT + RISER mm											
	A	B	C	D	E	F	G	H	I	br	Stab
1	6133	6228	5973	5961	5960	5972	5991	6018	6073	6357	5384
2	6061	6168	5916	5904	5906	5917	5937	5961	6013	6099	5369
3	6021	6121	5859	5849	5851	5864	5882	5907	5958	5900	5400
4	5998	6103	5785	5779	5786	5796	5818	5837	5879	5910	5472
5	6000	6103	5651	5647	5657	5670	5684	5706	5747	5769	5456
6	6030	6129	5486	5489	5495	5506	5523	5537	5566	5658	
7	6003	6093								5566	
8	5939	6041								5532	
9	5900	5993								5594	
10	5872	5970									
11	5859	5951									
12	5865	5958									
13	5791	5862									
14	5706	5790									
15	5639	5705									
16	5572	5651									
17	5552										
18	5522										

RISERS LENGHT mm			
A	B	C	
480	480	480	STANDARD

SKIN 4 P - 20

LINES HEIGHT + RISER mm											
	A	B	C	D	E	F	G	H	I	br	Stab
1	6465	6567	6298	6285	6284	6297	6317	6345	6404	6720	5685
2	6390	6504	6240	6229	6230	6242	6263	6289	6343	6449	5669
3	6349	6456	6183	6172	6175	6188	6207	6234	6288	6240	5701
4	6326	6437	6107	6100	6108	6118	6141	6161	6205	6251	5778
5	6330	6439	5966	5962	5972	5986	6001	6024	6067	6104	5757
6	6362	6467	5793	5796	5802	5814	5831	5846	5877	5988	
7	6334	6430								5892	
8	6267	6375								5858	
9	6227	6325								5924	
10	6198	6302									
11	6185	6282									
12	6192	6290									
13	6115	6189									
14	6024	6114									
15	5954	6024									
16	5884	5968									
17	5863										
18	5830										

RISERS LENGHT mm			
A	B	C	
480	480	480	STANDARD

SUSPENSION

MATERIAL CODE		DC	DC	8001/U	8001/U	8001/U	8001/U	TNL	A-8001/U	A-8000/U	TARAX
STRENGTH CODE		40	60	50	70	90	130	140	190	280	200
DIAMETER mm	ø	0,5	0,6	0,5	0,7	0,8	0,9	1,4	1,1	1,3 x 1,7	1,7
CORE MATERIAL		DYNEEMA	DYNEEMA	ARAMID	ARAMID	ARAMID	ARAMID	TECHNORA	ARAMID	ARAMID	DYNEEMA
SLEEVE MATERIAL		NO	NO	NO	NO	NO	NO	Polyester	NO	NO	Polyester
WEIGHT G/M	TOTAL	0,19	0,24	0,3	0,4	0,5	0,8	1,2	1,1	1,7	2
BREAKING STRENGTH daN	MINIMUM	40	60	50	70	90	130	140	190	280	200
	MAXIMUM	48	84	59	78	110	144	160	211		
STRENGTH AFTER 5.000 BENDING CYCLES											
	TEST EN	33	74	26	39	49	88	76,1	52		
ELONGATION AT	5 daN en %			0,4	0,5	0,4	0,4	0,2	0,4	0,15	0,1-0,3
	10 daN en %		0,43	0,7	0,7	0,6	0,6	0,3	0,6	0,25	0,2-0,6
	15 daN en %			1,1	1	0,8	0,8	0,5	0,7	0,35	0,3-0,7
	20 daN en %			1,5	1,3	1	0,9	0,6	0,9	0,4	0,3-0,9
	25 daN en %			1,9	1,5	1,3	1	0,8	1	0,5	0,4-1
	30 daN en %		1,2	3,3	2,8	2,3	1,8	1,5	1,6	0,9	
	75 daN en %				3,7	3,2	3,1	2,3	2,7	1,3	0,8-1,7
	100 daN en %							2,7	2,6	1,6	1,2-2
	125 daN en %							3,2	3,5		
	150 daN en %								4,3	2,2	1,6-2,4
	175 daN en %										
	200 daN en %									3,1	2-2,8
	250 daN en %									3,8	
ELONGATION MAX. BREAKING STRENGTH %			3,2	3,8	3,9	4,3	4	3,4	4,4		

THREAD

WING MAKING	
NAME	SERAFIL
N° OF REFERENCE	60
MATERIAL	POLYESTER
TYPE OF FINISH	SILK
LINEAR DENSITY	NM 61 / 3 (DTEX 163 * 3)
BREAKING STRENGTH	3,000 CN
ELONGATION	17,00%

QUALITIES SERAFIL	
SOLIDITY ARTIFICIAL LIGTH	ISO 105 B02 > 5 - 6
SOLIDITY SWEAT	ISO 105 E04 > 4
SOLIDITY WASHING	ISO 105 C04 > 3
SOLIDITY GRAZE IN DRY	ISO 105 X12 > 4
SOLIDITY WASHING IN DRY	ISO 105 D01 > 3 - 4
TREATMENT WATER REPELLENT	WR

RISERS MAKING	
NAME	COATS BONDED C.F.P.
N° OF REFERENCE	V138
MATERIAL	POLYESTER
TYPE OF FINISH	SILK
BREAKING STRENGTH	9,5 KG
ELONGATION	19%

RISERS

RISERS	
N° OF REFERENCE	10148
MATERIAL	DYNEEMA
WIDTH	5/6 mm
THICKNESS	1,5 mm
WEIGHTH	5 G* L.M.
COLOR	316 CARBON

COLOR INDICATOR	
N° OF REFERENCE	IC-G 1-2
MATERIAL	POLYESTER
WIDTH	70 mm
THICKNESS	0,80 mm
BREAKING STRENGTH	130 DN
ELONGATION	35 %
WEIGHTH	32 G * L.M.
COLOR	GREEN

LOOPS	
N° OF REFERENCE	LKI - 10
MATERIAL	NYLON
WIDTH	10 mm
BREAKING STRENGTH	84 KG
ELONGATION	30 %
WEIGHTH	5,5 g/m
COLOR	WHITE



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