

KOYOT 6

Technical *specifications*



PIVIUK BEYOND
THE GLIDE

TECHNICAL SPECIFICATIONS

			20	22	24	26	28	30
Cells	Number		38	38	38	38	38	38
Aspect Ratio	Flat		4,70	4,70	4,70	4,70	4,70	4,70
	Projected		3,70	3,70	3,70	3,70	3,70	3,70
Area	Flat	m ²	20	22	24	26	28	30
	Projected	m ²	17,29	19,00	20,74	22,47	24,20	25,90
Span	Flat	m	9,70	10,17	10,62	11,05	11,47	11,87
Chord	Max	m	2,54	2,66	2,78	2,89	3,00	3,11
Lines	Total	m	236	248	260	271	281	291
	Main		2+1/4/3	2+1/4/3	2+1/4/3	2+1/4/3	2+1/4/3	2+1/4/3
Risers	Number		A+A'/B/C	A+A'/B/C	A+A'/B/C	A+A'/B/C	A+A'/B/C	A+A'/B/C
	Speed-bar	mm	130	130	130	130	130	130
Glider weight		kg	4,08	4,48	4,78	5,14	5,42	5,63
Total weight in flight	Min-max	kg	50-70	55-80	65-90	80-105	95-119	110-135
Certification			EN/LTF A					

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



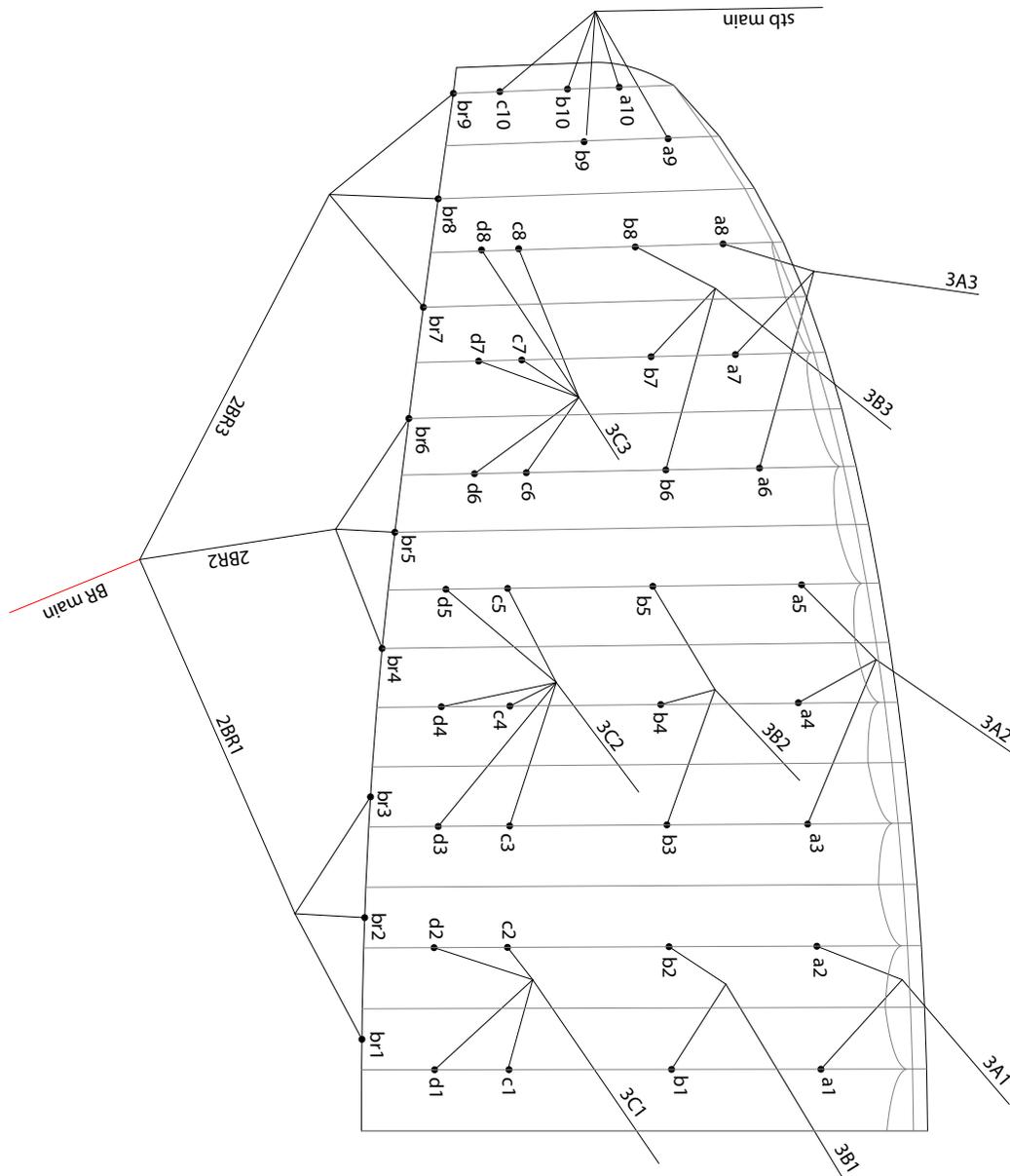
MATERIALS

CANOPY	FABRIC CODE	SUPPLIER
UPPER SURFACE	N30 DMF	DOMINICO TEX CO (KOREA)
BOTTOM SURFACE	N20 DMF	DOMINICO TEX CO (KOREA)
PROFILES	30DFM	DOMINICO TEX CO (KOREA)
DIAGONALS	30DFM	DOMINICO TEX CO (KOREA)
LOOPS	LKI - 12	KOLON IND. (KOREA)
REINFORCEMENT LOOPS	RIPSTOP	D-P (GERMANY)
TRAILING EDGE REINFORCEMENT	MYLAR	D-P (GERMANY)
RIBS REINFORCEMENT	LTN-0.8/0.5 STICK	SPORTWARE CO.CHINA
THREAD	SERAFIL 60	AMAN (GERMANY)

SUSPENSION LINES	FABRIC CODE	SUPPLIER
UPPER CASCADES	TNL - 80	TEIJIM LIMITED (JAPAN)
UPPER CASCADES	TNL - 140	TEIJIM LIMITED (JAPAN)
MIDDLE CASCADES	TNL - 80	TEIJIM LIMITED (JAPAN)
MAIN	TNL - 140	TEIJIM LIMITED (JAPAN)
MAIN	TNL - 220	TEIJIM LIMITED (JAPAN)
MAIN	TNL - 280	TEIJIM LIMITED (JAPAN)
MAIN BREAK	TARAX-200	EDELRID (GERMANY)
THREAD	SERAFIL 60	AMAN (GERMANY)

RISERS	FABRIC CODE	SUPPLIER
MATERIAL	G-R 19	TECNI SANGLES (FRANCE)
COLOR INDICATOR	210D	TECNI SANGLES (FRANCE)
THREAD	V138	COATS (ENGLAND)
MAILLONS	MRI4	ANSUNG PRECISION (KOREA)

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

A	A'	B	C
3A1	3A3	3B1	3C1
3A2		3B2	3C2
		3B3	3C3
		Stab	



COLORS



MISPEL	UPPER	DARK GOLD	LOWER	WHITE
	TOP 1	WHITE	BOTTOM 1	DARK GOLD
	TOP 2	DARK BRICK	BOTTOM 2	DARK BRICK



GUAVA	UPPER	SPECTRA GREEN	LOWER	WHITE
	TOP 1	WHITE	BOTTOM 1	SPECTRA GREEN
	TOP 2	PINK	BOTTOM 2	PINK



BLUEBERRY	UPPER	SLATE BLUE	LOWER	WHITE
	TOP 1	WHITE	BOTTOM 1	SLATE BLUE
	TOP 2	PURPLE	BOTTOM 2	PURPLE



PITAYA	UPPER	PINK	LOWER	WHITE
	TOP 1	WHITE	BOTTOM 1	PINK
	TOP 2	LIME	BOTTOM 2	LIME

WING LOAD

KOYOT 6

20		22		24		26		28		30	
P.T.V.	KG/M2										
50	= 2,50	55	= 2,50	65	= 2,71	80	= 3,08	95	= 3,39	110	= 3,67
55	= 2,75	60	= 2,73	70	= 2,92	85	= 3,27	100	= 3,57	115	= 3,83
60	= 3,00	65	= 2,95	75	= 3,13	90	= 3,46	105	= 3,75	120	= 4,00
65	= 3,25	70	= 3,18	80	= 3,33	95	= 3,65	110	= 3,93	125	= 4,17
70	= 3,50	75	= 3,41	85	= 3,54	100	= 3,85	115	= 4,11	130	= 4,33
		80	= 3,64	90	= 3,75	105	= 4,04	119	= 4,25	135	= 4,50

LINE MEASUREMENTS

KOYOT 6 - 20

LINES HEIGHT + RISER mm

	A	B	C	D	br
1	6050	5932	6008	6113	6320
2	6018	5898	5977	6082	6078
3	6020	5903	5992	6094	6006
4	5966	5852	5923	6022	5896
5	5994	5885	5982	6066	5784
6	5951	5863	5947	6018	5809
7	5830	5760	5829	5891	5760
8	5748	5709	5796	5843	5633
9	5557	5547	5615		5518
10	5446	5472			

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LINES HEIGHT + RISER mm

	A	B	C	D	br
1	6346	6221	6300	6411	6647
2	6315	6188	6270	6380	6395
3	6319	6194	6287	6393	6320
4	6263	6143	6216	6319	6205
5	6294	6187	6279	6367	6090
6	6249	6157	6244	6319	6117
7	6124	6049	6120	6185	6066
8	6038	5996	6086	6136	5934
9	5838	5827	5899		5815
10	5722	5749			

KOYOT 6 - 24

LINES HEIGHT + RISER mm

	A	B	C	D	br
1	6626,4	6496	6579	6694	6967
2	6596,4	6463	6549	6664	6704
3	6606,4	6472	6568	6680	6627
4	6546,4	6420	6496	6604	6509
5	6577,4	6467	6562	6654	6389
6	6533,5	6436	6527	6605	6419
7	6404,5	6324	6398	6466	6366
8	6316,5	6269	6363	6414	6229
9	6103,6	6092	6168		6106
10	5982,6	6011			

KOYOT 6 - 26

LINES HEIGHT + RISER mm

	A	B	C	D	br
1	6899	6762	6847	6967	7258
2	6868	6730	6818	6937	6986
3	6875	6739	6840	6956	6907
4	6816	6686	6765	6878	6785
5	6852	6728	6836	6932	6662
6	6806	6705	6800	6880	6694
7	6671	6589	6666	6736	6640
8	6578	6533	6630	6683	6498
9	6362	6349	6427		6371
10	6235	6264			

KOYOT 6 - 28

LINES HEIGHT + RISER mm

	A	B	C	D	br
1	7157,7	7013	7102	7227	7547
2	7127,7	6981	7074	7197	7265
3	7136,7	6993	7098	7218	7183
4	7076,7	6939	7022	7138	7058
5	7115,7	6984	7095	7195	6931
6	7065,5	6960	7060	7144	6965
7	6925,5	6840	6921	6995	6911
8	6830,5	6783	6884	6940	6764
9	6610,3	6597	6678		6632
10	6479,3	6509			

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LINES HEIGHT + RISER mm

	A	B	C	D	br
1	7406	7258	7353	7482	7824
2	7376	7227	7325	7453	7533
3	7386	7241	7351	7476	7450
4	7325	7186	7273	7394	7321
5	7366	7233	7351	7454	7191
6	7319	7210	7315	7402	7227
7	7175	7087	7172	7248	7172
8	7076	7028	7134	7191	7021
9	6844	6830	6914		6885
10	6708	6739			

SUSPENSION

MATERIAL CODE		TNL	TNL	TNL	TNL	TARAX
STRENGTH CODE		80	140	220	280	200
DIAMETER m/m	∅	1,1	1,4	1,6	1,8	1,7
CORE MATERIAL		Technora	Technora	Technora	Technora	Dyneema
SLEEVE MATERIAL		Polyester	Polyester	Polyester	Polyester	Polyester
WEIGHT G/M	TOTAL	1,1	1,2	1,6	2,7	2
BREAKING STRENGTH daN	MINIMUM	80	140	220	280	200
	MAXIMUM	92	160	250	320	
STRENGTH AFTER						
5.000 BENDING	TEST EN	36,7	76,1	114,2	134,7	
CYCLES						
ELONGATION AT	5 daN en %	0,3	0,2	0,2	0,2	0,1-0,3
	10 daN en %	0,5	0,3	0,3	0,3	0,2-0,6
	15 daN en %	0,7	0,5	0,5	0,4	0,3-0,7
	20 daN en %	1	0,6	0,6	0,4	0,3-0,9
	25 daN en %	1,3	0,8	0,7	0,5	0,4-1
	30 daN en %	2,3	1,5	1,2	0,9	
	75 daN en %	2,8	2,3	1,8	1,3	0,8-1,7
	100 daN en %		2,7	2,2	1,7	1,2-2
	125 daN en %		3,2	2,7	2	
	150 daN en %			3	2,3	1,6-2,4
	175 daN en %			3,3	2,7	
	200 daN en %			3,8	2,8	2-2,8
ELONGATION MAX. BREAKING STRENGTH %		3	3,4	4	4,1	5

THREAD

SAIL 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
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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	G-R 19
MATERIAL	POLYESTER
WIDTH	19 mm
THICKNESS	1,6 mm
BREAKING STRENGTH	850 kg
ELONGATION	MAX. 12%
WEIGHT	23 G/M
COLOR	BLACK

COLOR INDICATOR

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

LOOPS

N° OF REFERENCE	LKI - 12
MATERIAL	NYLON
WIDTH	10 mm
BREAKING STRENGTH	84 kg
ELONGATION	30%
WEIGHT	5,5 G/M
COLOR	WHITE



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