

TARGET

Technical *specifications*



IVIUK BEYOND THE GLIDE

TECHNICAL SPECIFICATIONS

			20	22	24	26	28	30
Cells	Number		34	34	34	34	34	34
Aspect ratio	Flat		4,75	4,75	4,75	4,75	4,75	4,75
	Projected		3,83	3,83	3,83	3,83	3,83	3,83
Area	Flat	m2	20	22	24	26	28	30
	Projected	m2	17,58	19,34	21,09	22,85	24,61	26,37
Span	Flat	m	9,75	10,22	10,68	11,22	11,53	11,94
Chord	Max	m	2,52	2,65	2,76	2,90	2,98	3,09
Lines	Total	m	243	255	267	281	289	299
	Main		2+1/3/2	2+1/3/2	2+1/3/2	2+1/3/2	2+1/3/2	2+1/3/2
Risers	Number	3+1	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	3,58	3,82	4,04	4,34	4,56	4,88
Total weight in flight	Min-Max	kg	40-75	55-85	65-95	75-105	90-120	105-135
Certification			EN/LTF A	EN/LTF A	EN/LTF A	EN/LTF A	EN/LTF A	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.

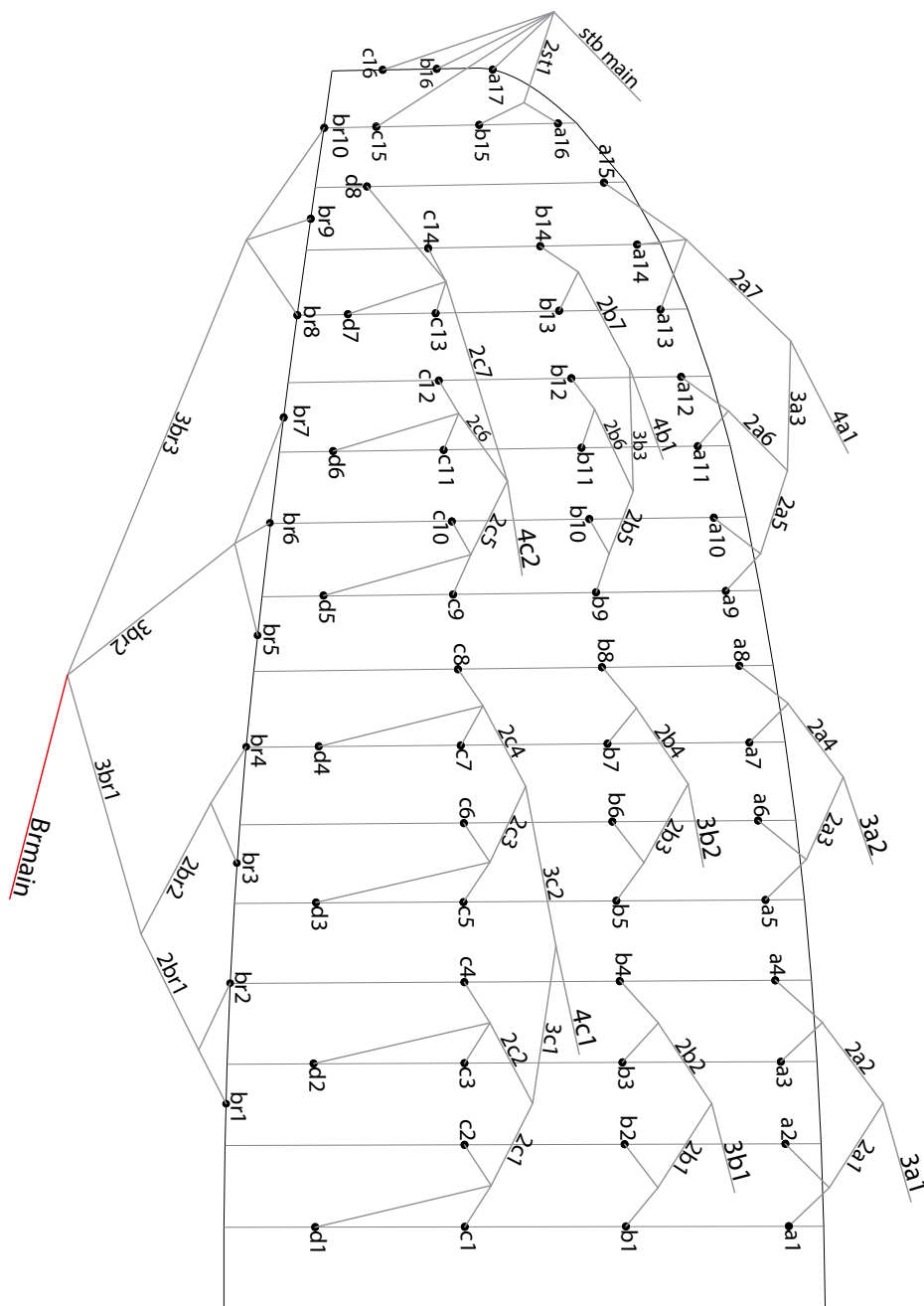
MATERIALS

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	W-420	D-P (GERMANY)
TRAILING EDGE REINFORCEMENT	MYLAR	D-P (GERMANY)
RIBS REINFORCEMENT	LTN-0.5/0.8 STICK	SPORTWARE CO.CHINA
THREAD	SERAFIL 60	AMAN (GERMANY)

SUSPENSION LINES	FABRIC CODE	SUPPLIER
UPPER CASCADES	TNL - 80	TEIJIM LIMITED (JAPAN)
MIDDLE CASCADES	TNL - 80	TEIJIM LIMITED (JAPAN)
MIDDLE CASCADES	TNL - 140	TEIJIM LIMITED (JAPAN)
MIDDLE CASCADES	TNL - 220	TEIJIM LIMITED (JAPAN)
MAIN	TNL - 140	TEIJIM LIMITED (JAPAN)
MAIN	TNL - 220	TEIJIM LIMITED (JAPAN)
MAIN	TNL - 280	TEIJIM LIMITED (JAPAN)
MAIN	TNL - 400	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.

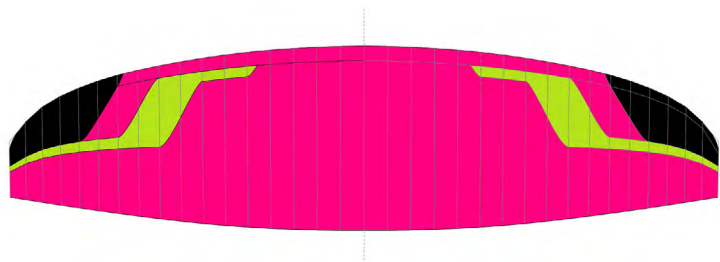
Niviuk strongly recommends for any line replacement to be carried out by an authorised professional only, and will not accept responsibility for any damage or injury caused as a result of incorrect re-assembly.

RISER PLAN

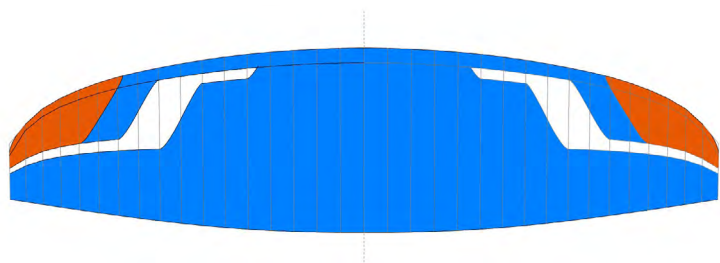
A	A'	B	C
3a1	3a3	3b1	4c1
3a2		3b2	4c2
		3b3	
		stb main	



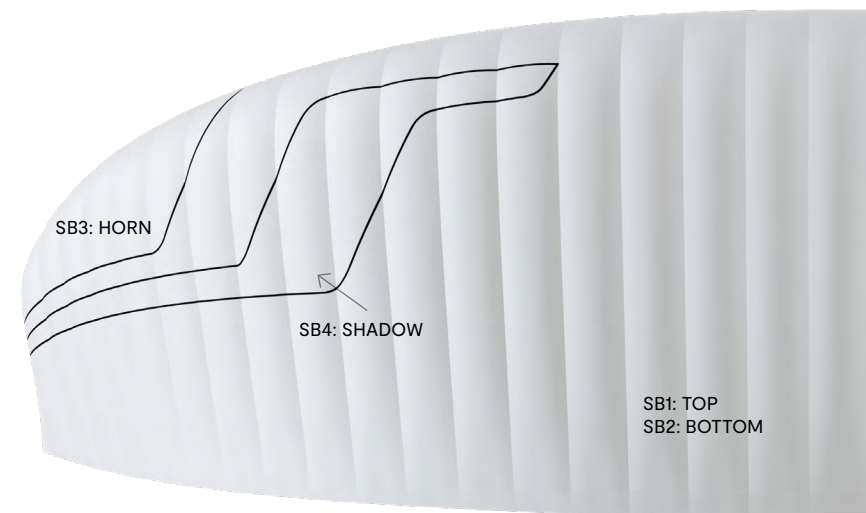
COLORS



TROIPIK	SB1	PINK	TOP	REF: 19-2047
	SB2	WHITE	BOTTOM - ALL WHITE	REF: 001
	SB3	BLACK	HORN	REF: 102
	SB4	LIMA	SHADOW	REF: 500



SKYFIRE	SB1	ROYAL BLUE	TOP	REF: 317
	SB2	WHITE	BOTTOM - ALL WHITE	REF: 001
	SB3	DARK BRICK	HORN	REF: 137
	SB4	WHITE	SHADOW	REF: 001



WING LOAD

TARGET

20		
P.T.V.	=	KG/M2
40	=	2,00
45	=	2,25
50	=	2,50
55	=	2,75
60	=	3,00
65	=	3,25
70	=	3,50
75	=	3,75

22		
P.T.V.	=	KG/M2
55	=	2,50
60	=	2,73
65	=	2,95
70	=	3,18
75	=	3,41
80	=	3,64
85	=	3,86

24		
P.T.V.	=	KG/M2
65	=	2,71
70	=	2,92
75	=	3,13
80	=	3,33
85	=	3,54
90	=	3,75
95	=	3,96

26		
P.T.V.	=	KG/M2
75	=	2,88
80	=	3,08
85	=	3,27
90	=	3,46
95	=	3,65
100	=	3,85
105	=	4,04

28		
P.T.V.	=	KG/M2
90	=	3,21
95	=	3,39
100	=	3,57
105	=	3,75
110	=	3,93
115	=	4,11
120	=	4,29

30		
P.T.V.	=	KG/M2
105	=	3,50
110	=	3,67
115	=	3,83
120	=	4,00
125	=	4,17
130	=	4,33
135	=	4,50

LINES

TARGET 26

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					
A					B					C					D					BRAKE									
a1	TNL	80	GREEN	954	b1	TNL	80	BLUE	941	c1	TNL	80	BLUE	910	d1	TNL	80	BLUE	1046	br1	TNL	80	RED	1010					
a2	TNL	80	GREEN	878	b2	TNL	80	BLUE	868	c2	TNL	80	BLUE	780	d2	TNL	80	BLUE	1051	br2	TNL	80	RED	754					
a3	TNL	80	GREEN	877	b3	TNL	80	BLUE	867	c3	TNL	80	BLUE	902	d3	TNL	80	BLUE	1021	br3	TNL	80	RED	752					
a4	TNL	80	GREEN	914	b4	TNL	80	BLUE	906	c4	TNL	80	BLUE	931	d4	TNL	80	BLUE	954	br4	TNL	80	RED	762					
a5	TNL	80	GREEN	905	b5	TNL	80	BLUE	886	c5	TNL	80	BLUE	880	d5	TNL	80	BLUE	961	br5	TNL	80	RED	1446					
a6	TNL	80	GREEN	838	b6	TNL	80	BLUE	823	c6	TNL	80	BLUE	868	d6	TNL	80	BLUE	868	br6	TNL	80	RED	1363					
a7	TNL	80	GREEN	837	b7	TNL	80	BLUE	823	c7	TNL	80	BLUE	810	d7	TNL	80	BLUE	1129	br7	TNL	80	RED	1400					
a8	TNL	80	GREEN	861	b8	TNL	80	BLUE	851	c8	TNL	80	BLUE	931	d8	TNL	80	BLUE	1106	br8	TNL	80	RED	1181					
a9	TNL	80	GREEN	764	b9	TNL	80	BLUE	751	c9	TNL	80	BLUE	827						br9	TNL	80	RED	1104					
a10	TNL	80	GREEN	658	b10	TNL	80	BLUE	656	c10	TNL	80	BLUE	763						br10	TNL	80	RED	948					
a11	TNL	80	GREEN	730	b11	TNL	80	BLUE	706	c11	TNL	80	BLUE	753															
a12	TNL	80	GREEN	713	b12	TNL	80	BLUE	697	c12	TNL	80	BLUE	729															
a13	TNL	80	GREEN	1427	b13	TNL	80	BLUE	678	c13	TNL	80	BLUE	1043															
a14	TNL	80	GREEN	1372	b14	TNL	80	BLUE	675	c14	TNL	80	BLUE	1030															
a15	TNL	80	GREEN	1371	b15	TNL	80	BLUE	628	c15	TNL	80	BLUE	1.333															
a16	TNL	80	GREEN	667	b16	TNL	80	BLUE	1250	c16	TNL	80	BLUE	1329															
a17	TNL	80	GREEN	1224																									
2a1	TNL	140	GREEN	897	2b1	TNL	140	BLUE	886	2c1	TNL	140	BLUE	530						2br1	TNL	80	RED	830					
2a2	TNL	140	GREEN	877	2b2	TNL	140	BLUE	869	2c2	TNL	140	BLUE	338						2br2	TNL	80	RED	710					
2a3	TNL	140	GREEN	853	2b3	TNL	140	BLUE	837	2c3	TNL	80	BLUE	349						3br2	TNL	80	RED	1906					
2a4	TNL	140	GREEN	832	2b4	TNL	140	BLUE	820	2c4	TNL	80	BLUE	457						3br3	TNL	80	RED	2141					
2a5	TNL	140	GREEN	954	2b5	TNL	140	BLUE	950	2c5	TNL	80	BLUE	1793						3br1	TNL	80	RED	2034					
2a6	TNL	140	GREEN	819	2b6	TNL	80	BLUE	848	2c6	TNL	80	BLUE	1737															
2a7	TNL	140	GREEN	1592	2b7	TNL	80	BLUE	1849	2C7	TNL	80	BLUE	1396															
3a3	TNL	140	GREEN	1551	3b3	TNL	140	BLUE	1021	3C1	TNL	220	BLUE	1351															
					2st1	TNL	80	BLUE	625	3C2	TNL	220	BLUE	1363															
					stb main	TNL	80	RED	4672																				
3a1	TNL	280	GREEN	4626	3b1	TNL	220	BLUE	4540	4c1	TNL	400	BLUE	3767						BRMAIN	TARAX	200	RED	3502					
3a2	TNL	280	GREEN	4643	3b2	TNL	220	BLUE	4581	4c2	TNL	140	BLUE	3699															
4a1	TNL	220	GREEN	3089	4b1	TNL	140	BLUE	3545											KNOT POINT:				3302					

LINE MEASUREMENTS

TARGET - 20

LINES HEIGHT MM

	A	B	C	D	br
1	6102	6008	6167	6286	6260
2	6036	5944	6053	6125	6040
3	6021	5932	5994	6134	5944
4	6059	5971	6025	6184	5963
5	6053	5969	6009	6131	5849
6	6002	5922	6006	6014	5787
7	5991	5914	6059	5954	5830
8	6020	5947	6172	5915	5848
9	6035	5956	6014		5765
10	5949	5881	5966		5663
11	5901	5845	5914		
12	5893	5845	5902		
13	5852	5825	5881		
14	5798	5816	5863		
15	5783	5655	5731		
16	5688	5637	5706		
17	5615				

RISERS LENGHT MM

A	A'	B	C	
470	470	470	470	STANDARD
340	340	383	470	ACCELERATED

TARGET - 22

LINES HEIGHT MM

	A	B	C	D	br
1	6398	6300	6468	6593	6584
2	6329	6233	6349	6424	6353
3	6314	6219	6287	6429	6250
4	6352	6260	6318	6477	6267
5	6344	6257	6299	6416	6141
6	6288	6204	6294	6286	6070
7	6275	6194	6345	6214	6108
8	6302	6225	6461	6171	6123
9	6314	6232	6294		6034
10	6220	6149	6239		5942
11	6166	6106	6181		
12	6153	6102	6162		
13	6104	6076	6136		
14	6046	6066	6116		
15	6031	5900	5980		
16	5936	5883	5956		
17	5860				

RISERS LENGHT MM

A	A'	B	C	
470	470	470	470	STANDARD
340	340	383	470	ACCELERATED

TARGET - 24

LINES HEIGHT MM

	A	B	C	D	br
1	6682	6578	6754	6884	6886
2	6608	6506	6628	6701	6639
3	6588	6489	6559	6695	6523
4	6622	6526	6585	6733	6531
5	6607	6514	6559	6658	6389
6	6542	6453	6547	6514	6309
7	6520	6436	6595	6437	6343
8	6543	6463	6710	6414	6359
9	6551	6466	6530		6283
10	6449	6375	6468		6218
11	6388	6326	6404		
12	6371	6318	6381		
13	6320	6292	6354		
14	6268	6289	6342		
15	6266	6146	6232		
16	6184	6152	6228		
17	6127				

RISERS LENGHT MM

A	A'	B	C	
470	470	470	470	STANDARD
340	340	383	470	ACCELERATED

LINE MEASUREMENTS

TARGET - 26

LINES HEIGHT MM

	A	B	C	D	br
1	6955	6846	7029	7165	7186
2	6879	6773	6899	6978	6930
3	6858	6755	6829	6971	6808
4	6895	6794	6858	7012	6818
5	6879	6783	6830	6937	6672
6	6812	6720	6818	6788	6589
7	6790	6703	6868	6707	6626
8	6814	6731	6989	6684	6642
9	6824	6735	6803		6565
10	6718	6640	6739		6507
11	6655	6590	6673		
12	6638	6581	6649		
13	6585	6554	6621		
14	6530	6551	6608		
15	6529	6404	6493		
16	6443	6410	6489		
17	6384				

RISERS LENGHT MM

A	A'	B	C	
470	470	470	470	STANDARD
340	340	383	470	ACCELERATED

TARGET - 28

LINES HEIGHT MM

	A	B	C	D	br
1	7216	7104	7296	7437	7476
2	7138	7028	7162	7243	7211
3	7119	7011	7089	7238	7085
4	7157	7053	7119	7281	7095
5	7142	7042	7091	7205	6944
6	7072	6977	7079	7051	6859
7	7051	6961	7133	6968	6898
8	7077	6991	7258	6944	6915
9	7088	6995	7066		6835
10	6978	6897	7000		6784
11	6913	6845	6931		
12	6895	6837	6907		
13	6840	6808	6878		
14	6783	6806	6865		
15	6783	6652	6745		
16	6693	6658	6740		
17	6632				

RISERS LENGHT MM

A	A'	B	C	
470	470	470	470	STANDARD
340	340	383	470	ACCELERATED

TARGET - 30

LINES HEIGHT MM

	A	B	C	D	br
1	7470	7352	7551	7697	7753
2	7390	7275	7413	7498	7479
3	7370	7258	7339	7494	7350
4	7410	7302	7371	7541	7362
5	7395	7291	7342	7464	7207
6	7324	7224	7331	7304	7120
7	7302	7208	7387	7218	7161
8	7330	7239	7518	7193	7179
9	7342	7245	7319		7096
10	7228	7145	7251		7050
11	7161	7092	7180		
12	7143	7083	7155		
13	7086	7053	7125		
14	7027	7051	7112		
15	7027	6892	6988		
16	6935	6898	6982		
17	6870				

RISERS LENGHT MM

A	A'	B	C	
470	470	470	470	STANDARD
340	340	383	470	ACCELERATED

SUSPENSION

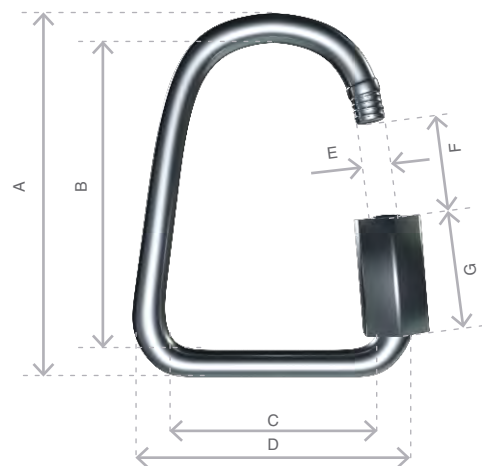
MATERIAL CODE		TNL	TNL	TNL	TNL	TNL	TARAX
STRENGTH CODE		080	140	220	280	400	200
DIAMETER m/m	∅	1,1	1,4	1,6	1,8	2,3	1,7
CORE MATERIAL		Technora	Technora	Technora	Technora	Technora	Dyneema
SLEEVE MATERIAL		Polyester	Polyester	Polyester	Polyester	Polyester	Polyester
WEIGHT G/M	TOTAL	1,1	1,2	1,6	2,7	4	2
BREAKING STRENGTH daN	MINIMUM	80	140	220	280	460	200
	MAXIMUM	92	160	250	320	470	
STRENGTH AFTER 5.000 BENDING CYCLES	TEST EN	36,7	76,1	114,2	134,7	160,1	
ELONGATION AT	5 daN en %	0,3	0,2	0,2	0,2	0,05	0,1-0,3
	10 daN en %	0,5	0,3	0,3	0,3	0,1	0,2-0,6
	15 daN en %	0,7	0,5	0,5	0,4	0,2	0,3-0,7
	20 daN en %	1	0,6	0,6	0,4	0,2	0,3-0,9
	25 daN en %	1,3	0,8	0,7	0,5	0,3	0,4-1
	30 daN en %	2,3	1,5	1,2	0,9	0,6	
	75 daN en %	2,8	2,3	1,8	1,3	0,8	0,8-1,7
	100 daN en %		2,7	2,2	1,7	1,1	1,2-2
	125 daN en %		3,2	2,7	2	1,4	
	150 daN en %			3	2,3	1,7	1,6-2,4
	175 daN en %			3,3	2,7	2	
200 daN en %			3,8	2,8	2,2	2-2,8	
ELONGATION MAX. BREAKING STRENGTH %		3	3,4	4	4,1	4,6	

MAILLON & PULLEY

DESCRIPTION

MAILLON	DELTA
CODE	MRI4
MATERIAL	STAINLESS STEEL
SIZE	4,3 m/m
WEIGHT	12 G/PIECE
QUANTITY	8 PIECES
INSERTS	4 GREEN / 4 BLACK

TECHNICAL SPECIFICATIONS



DIMENSIONS	m/m
A	38
B	30
C	20
D	28
E	4
F	4
G	11
LOAD	KG
WORKING LIMIT	150
BREAKING	750

MATERIAL AISI 304 STAINLESS STEEL

STANDARD

CLOSING APPLIED BY MANUAL & ENTIRE SCREWING OF THE NUT
TO GUARANTEE THE HIGHEST SAFETY (NO THREAD SHOULD BE OBVIOUS)

SYSTEMATIC CONTROL OF MAILLON QUICK-LINKS BEFORE EVERY FLIGHT

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%

PROPIETIES 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	G-R 19
MATERIAL	POLYESTER
WIDTH	19 M/M
THICKNESS	1,6 M/M
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 M/M
THICKNESS	0,80 M/M
BREAKING STRENGTH	130 DN
ELONGATION	35 %
WEIGHT	32 G * L.M.
COLOR	GREEN

LOOPS

N° OF REFERENCE	LKI - 12
MATERIAL	NYLON
WIDTH	12 MM
COLOR	WHITE



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