

N-GRAVITY 6

Technical *specifications*

IVIUK BEYOND
THE GLIDE

TECHNICAL SPECIFICATIONS

			16	17	18	19
Cells	Number		49	49	49	49
Aspect ratio	Flat		5,5	5,5	5,5	5,5
	Projected		4,34	4,34	4,34	4,34
Area	Flat	m2	16	17	18	19,5
	Projected	m2	13,69	14,55	15,42	16,7
Span	Flat	m	9,47	9,76	10	10,32
Chord	Max	m	2,08	2,14	2,21	2,29
Lines	Total	m	314	324	335	349
	Main		3/3/4/3	3/3/4/3	3/3/4/3	3/3/4/3
Risers	Number	4	A/B/C/D	A/B/C/D	A/B/C/D	A/B/C/D
	Speed-bar	mm	150	150	150	150
	Trimmers	mm	No	No	No	No
Glider weight		kg	4,93	5,15	5,35	5,66
Total weight in flight	Min-Max	kg	60-90	70-100	80-110	95-120
Certification			EN 926-1	EN 926-1	EN 926-1	EN 926-1

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

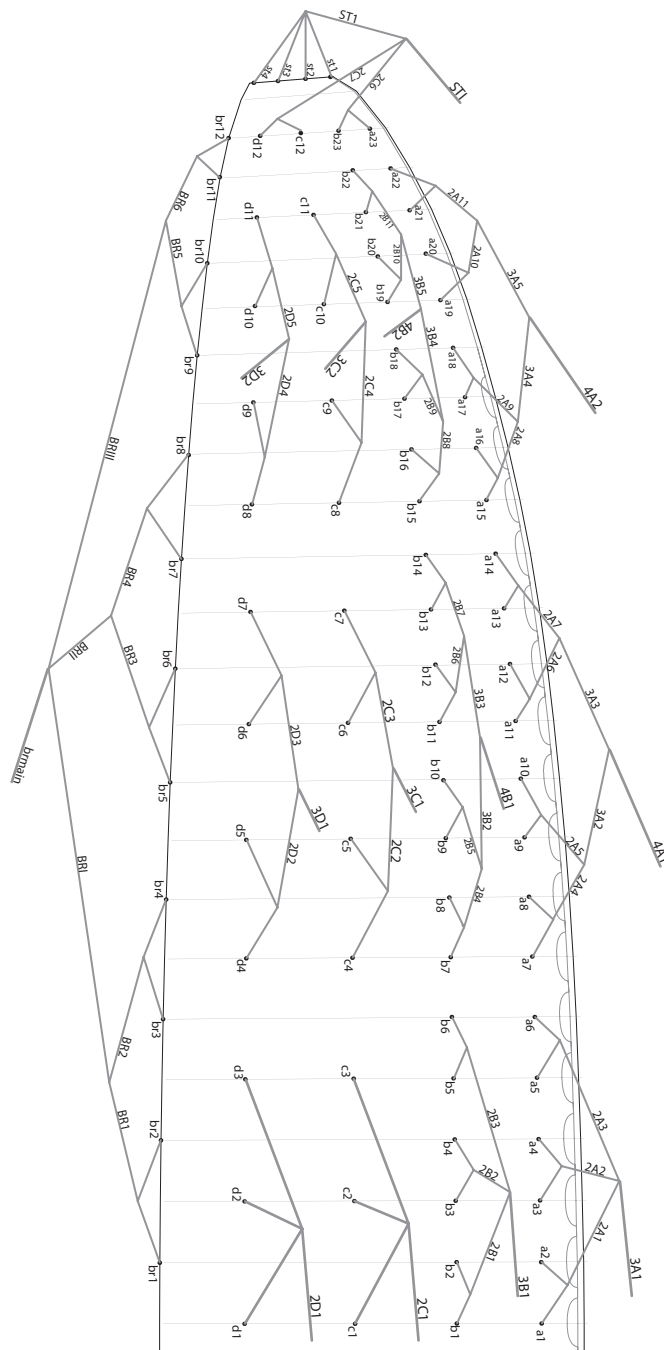
MATERIALS

CANOPY	FABRIC CODE	SUPPLIER
UPPER SURFACE	N20 DMF	DOMINICO TEX CO (KOREA)
BOTTOM SURFACE	N20 DMF	DOMINICO TEX CO (KOREA)
RIBS	30DFM	DOMINICO TEX CO (KOREA)
DIAGONALS	30DFM	DOMINICO TEX CO (KOREA)
LOOPS	LKI - 10	KOLON IND. (KOREA)
REINFORCEMENT LOOPS	W-420	D-P (GERMANY)
TRAILING EDGE REINFORCEMENT	MYLAR	D-P (GERMANY)
REINFORCEMENT RIBS	LTN-0.8 STICK	SPORTWARE CO. (CHINA)
THREAD	SERAFIL 60	AMAN (GERMANY)

SUSPENSION LINES	FABRIC CODE	SUPPLIER
UPPER CASCADES	A-8001/U-050	EDELRID (GERMANY)
UPPER CASCADES	A-8001/U-070	EDELRID (GERMANY)
MIDDLE CASCADES	A-8001/U-070	EDELRID (GERMANY)
MIDDLE CASCADES	A-8001/U-090	EDELRID (GERMANY)
MIDDLE CASCADES	A-8001/U-130	EDELRID (GERMANY)
MIDDLE CASCADES	A-8001/U-190	EDELRID (GERMANY)
MAIN	A-8001/U-130	EDELRID (GERMANY)
MAIN	A-8001/U-190	EDELRID (GERMANY)
MAIN	A-8001/U-230	EDELRID (GERMANY)
MAIN	A-8001/U-340	EDELRID (GERMANY)
MAIN BREAK	TARAX-240	EDELRID (GERMANY)
THREAD	SERAFIL 60	AMAN (GERMANY)

RISERS	FABRIC CODE	SUPPLIER
MATERIAL	G-R 22	TECNI SANGLES (FRANCE)
COLOR INDICATOR	PAD	TECNI SANGLES (FRANCE)
THREAD	V138	COATS (ENGLAND)
MAILLONS	MRI4	ANSUNG PRECISION (KOREA)
PULLEYS	S15 BB	RONSTAN (AUSTRALIA)

OK



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.

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.

- 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.

- 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

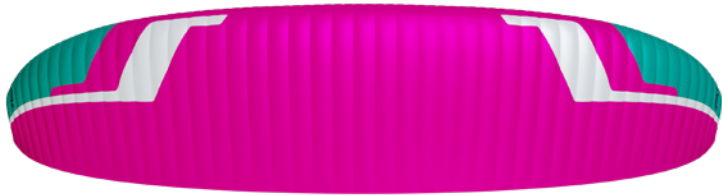
A	B	C	D
4A1	4B1	3C1	3D1
4A2	4B2	3C2	3D2
3A1	3B1	2C1	2D1
		STI	



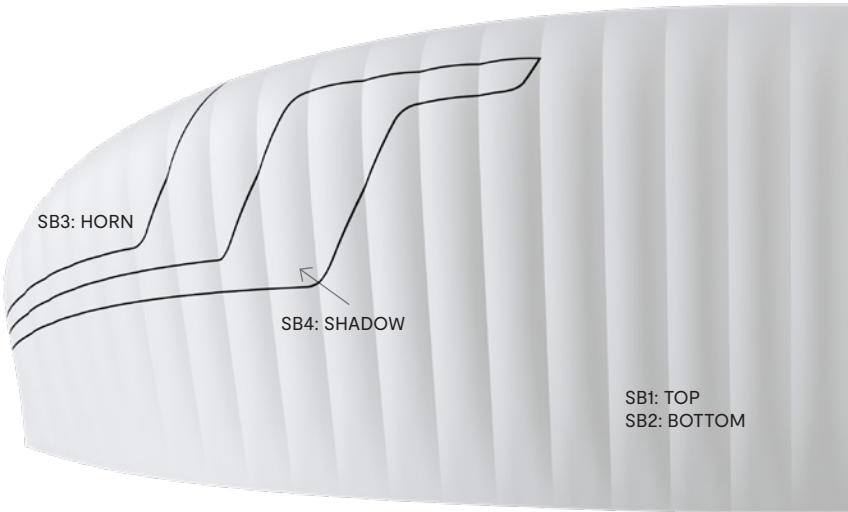
COLORS



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

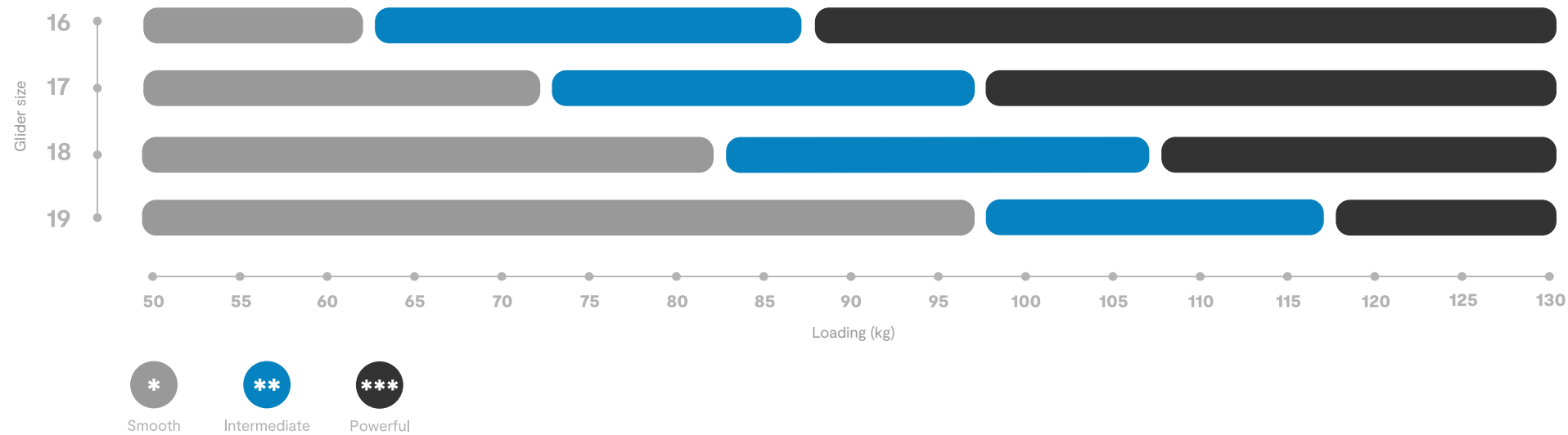


NEON	SB1	PINK	TOP	REF: 19-2047
	SB2	WHITE	BOTTOM - ALL WHITE	REF: 001
	SB3	SPECTRA GREEN	HORN	REF: 17-5335
	SB4	WHITE	SHADOW	REF: 001



WING LOAD TECHNICAL DATA

N-GRAVITY 6



N-Gravity 6 16

AK

N-Gravity 6 17

AK

LINES TECHNICAL DATA

N-Gravity 6 18

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	8001/U	70	ORG	468	b1	8001/U	70	BLUE	464	c1	8001/U	90	BLUE	1.590	D1	8001/U	70	BLUE	1.428	br1	8001/U	50	BLUE	863			
a2	8001/U	70	ORG	423	b2	8001/U	70	BLUE	419	c2	8001/U	90	BLUE	1.503	D2	8001/U	70	BLUE	1.331	br2	8001/U	50	BLUE	690			
a3	8001/U	70	ORG	461	b3	8001/U	70	BLUE	457	c3	8001/U	90	BLUE	1.516	D3	8001/U	70	BLUE	1.356	br3	8001/U	50	BLUE	797			
a4	8001/U	70	ORG	441	b4	8001/U	70	BLUE	438	c4	8001/U	90	BLUE	919	D4	8001/U	70	BLUE	794	br4	8001/U	50	BLUE	793			
a5	8001/U	70	ORG	444	b5	8001/U	70	BLUE	441	c5	8001/U	70	BLUE	781	D5	8001/U	70	BLUE	632	br5	8001/U	50	BLUE	790			
a6	8001/U	70	ORG	452	b6	8001/U	70	BLUE	449	c6	8001/U	70	BLUE	779	D6	8001/U	70	BLUE	630	br6	8001/U	50	BLUE	642			
a7	8001/U	70	ORG	455	b7	8001/U	70	BLUE	451	c7	8001/U	70	BLUE	808	D7	8001/U	70	BLUE	686	br7	8001/U	50	BLUE	683			
a8	8001/U	70	ORG	367	b8	8001/U	70	BLUE	365	c8	8001/U	70	BLUE	684	D8	8001/U	70	BLUE	620	br8	8001/U	50	BLUE	690			
a9	8001/U	70	ORG	441	b9	8001/U	70	BLUE	437	c9	8001/U	70	BLUE	549	D9	8001/U	70	BLUE	471	br9	8001/U	50	BLUE	723			
a10	8001/U	70	ORG	421	b10	8001/U	70	BLUE	419	c10	8001/U	70	BLUE	565	D10	8001/U	70	BLUE	494	br10	8001/U	50	BLUE	610			
a11	8001/U	70	ORG	433	b11	8001/U	70	BLUE	430	c11	8001/U	70	BLUE	576	D11	8001/U	70	BLUE	514	br11	8001/U	50	BLUE	297			
a12	8001/U	70	ORG	398	b12	8001/U	70	BLUE	395	c12	8001/U	70	BLUE	463	D12	8001/U	70	BLUE	512	br12	8001/U	50	BLUE	291			
a13	8001/U	50	ORG	382	b13	8001/U	70	BLUE	380	st3	8001/U	70	BLUE	1.077	ST4	8001/U	70	BLUE	1.104								
a14	8001/U	50	ORG	418	b14	8001/U	70	BLUE	415																		
a15	8001/U	70	ORG	400	b15	8001/U	70	BLUE	394																		
a16	8001/U	70	ORG	313	b16	8001/U	70	BLUE	310																		
a17	8001/U	70	ORG	373	b17	8001/U	70	BLUE	368																		
a18	8001/U	70	ORG	351	b18	8001/U	70	BLUE	348																		
a19	8001/U	70	ORG	352	b19	8001/U	70	BLUE	346																		
a20	8001/U	70	ORG	312	b20	8001/U	70	BLUE	309																		
a21	8001/U	70	ORG	311	b21	8001/U	70	BLUE	307																		
a22	8001/U	70	ORG	334	b22	8001/U	70	BLUE	324																		
a23	8001/U	70	BLUE	395	b23	8001/U	70	BLUE	375																		
st1	8001/U	70	BLUE	1068	st2	8001/U	70	BLUE	1.063																		
2A1	8001/U	130	ORG	1847	2B1	8001/U	130	BLUE	1.832	2C2	8001/U	130	BLUE	824	2D2	8001/U	130	BLUE	682	BR1	8001/U	70	BLUE	1.244			
2A2	8001/U	130	ORG	1774	2B2	8001/U	130	BLUE	1.760	2C3	8001/U	130	BLUE	763	2D3	8001/U	130	BLUE	620	BR2	8001/U	70	BLUE	1.024			
2A3	8001/U	130	ORG	1763	2B3	8001/U	130	BLUE	1.750	2C4	8001/U	130	BLUE	661	2D4	8001/U	90	BLUE	611	BR3	8001/U	70	BLUE	1.035			
2A4	8001/U	130	ORG	753	2B4	8001/U	130	BLUE	747	2C5	8001/U	90	BLUE	571	2D5	8001/U	90	BLUE	505	BR4	8001/U	70	BLUE	906			
2A5	8001/U	130	ORG	620	2B5	8001/U	130	BLUE	615	2C6	8001/U	90	BLUE	1.317						BR5	8001/U	70	BLUE	536			
2A6	8001/U	130	ORG	633	2B6	8001/U	130	BLUE	628	2C7	8001/U	90	BLUE	1.247						BR6	8001/U	70	BLUE	780			
2A7	8001/U	130	ORG	647	2B7	8001/U	130	BLUE	643	ST1	8001/U	70	BLUE	577													
2A8	8001/U	90	ORG	605	2B8	8001/U	90	BLUE	595																		
2A9	8001/U	90	ORG	483	2B9	8001/U	90	BLUE	478																		
2A10	8001/U	90	ORG	508	2B10	8001/U	90	BLUE	504																		
2A11	8001/U	90	ORG	495	2B11	8001/U	90	BLUE	491																		
3A2	8001/U	190	ORANGE	1073	3B2	8001/U	190	BLUE	1.065																		
3A3	8001/U	190	ORANGE	1011	3B3	8001/U	190	BLUE	1.004																		
3A4	8001/U	130	ORANGE	876	3B4	8001/U	130	BLUE	865																		
3A5	8001/U	130	ORANGE	797	3B5	8001/U	130	BLUE	791																		
3A1	8001/U	340	ORANGE	4487	3B1	8001/U	340	BLUE	4.460	2C1	8001/U	230	BLUE	5.215	2D1	8001/U	230	BLUE	5.498	BRMAIN	TARAX	240	RED	1.600			
4A1	8001/U	340	ORANGE	4436	4B1	8001/U	340	BLUE	4.414	3C1	8001/U	230	BLUE	4.974	3D1	8001/U	190	BLUE	5.381	POINT A:				1.400			
4A2	8001/U	230	ORANGE	4535	4B2	8001/U	230	BLUE	4.525	3C2	8001/U	230	BLUE	5.062	3D2	8001/U	130	BLUE	5.272								

N-Gravity 6 19

AK

LINE MEASUREMENTS

N-GRAVITY 6 - 16

LINES HEIGHT MM					
	A	B	C	D	br
1	6380	6338	6379	6492	6785
2	6337	6295	6295	6400	6619
3	6303	6262	6306	6422	6508
4	6284	6243	6292	6423	6501
5	6277	6236	6161	6270	6356
6	6283	6243	6101	6209	6215
7	6298	6259	6128	6261	6131
8	6215	6177	5995	6088	6138
9	6158	6120	5869	5947	5984
10	6139	6103	5798	5869	5879
11	6103	6067	5809	5887	5815
12	6069	6034	5557	5602	5810
13	6068	6034	5503	5528	
14	6101	6067			
15	6009	5975			
16	5927	5897			
17	5868	5841			
18	5848	5822			
19	5798	5774			
20	5760	5739			
21	5746	5725			
22	5768	5741			
23	5558	5539			
24	5494	5490			
RISERS LENGHT MM					
A	B	C	D		
500	500	500	500	STANDARD	
350	425	462	500	ACCELERATED	



N-GRAVITY 6 - 17

LINES HEIGHT MM					
	A	B	C	D	br
1	6592	6548	6590	6707	7006
2	6547	6504	6505	6613	6836
3	6513	6470	6517	6636	6723
4	6493	6451	6503	6638	6718
5	6486	6444	6368	6480	6570
6	6493	6452	6307	6418	6425
7	6509	6469	6335	6472	6339
8	6423	6384	6199	6294	6346
9	6364	6326	6068	6148	6187
10	6345	6308	5996	6068	6077
11	6309	6272	6006	6088	6011
12	6274	6238	5747	5793	6006
13	6273	6238	5691	5717	
14	6307	6272			
15	6213	6178			
16	6128	6097			
17	6068	6039			
18	6046	6020			
19	5995	5970			
20	5956	5934			
21	5942	5920			
22	5965	5937			
23	5749	5729			
24	5682	5678			
RISERS LENGHT MM					
A	B	C	D		
500	500	500	500	STANDARD	
350	425	462	500	ACCELERATED	

N-GRAVITY 6 - 18

LINES HEIGHT MM					
	A	B	C	D	br
1	6797	6752	6795	6916	7220
2	6751	6707	6708	6819	7047
3	6716	6672	6721	6844	6933
4	6697	6653	6708	6847	6930
5	6689	6646	6569	6684	6778
6	6697	6655	6507	6621	6629
7	6714	6672	6536	6677	6541
8	6626	6585	6396	6494	6548
9	6565	6526	6262	6344	6384
10	6546	6507	6187	6262	6270
11	6508	6470	6199	6282	6201
12	6473	6436	5931	5979	6195
13	6472	6436	5874	5901	
14	6507	6471			
15	6410	6374			
16	6323	6291			
17	6261	6232			
18	6239	6212			
19	6186	6161			
20	6146	6124			
21	6132	6109			
22	6155	6127			
23	5933	5913			
24	5865	5860			
RISERS LENGHT MM					
A	B	C	D		
500	500	500	500	STANDARD	
350	425	462	500	ACCELERATED	

LINE MEASUREMENTS

N-GRAVITY 6 - 19

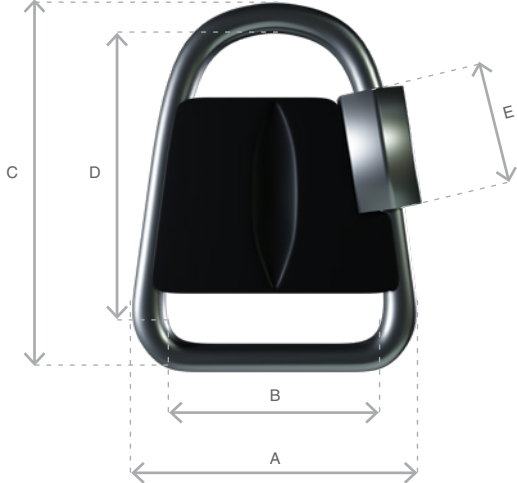
LINES HEIGHT MM					
	A	B	C	D	br
1	7094	7047	7092	7218	7530
2	7047	7001	7002	7119	7352
3	7011	6965	7017	7145	7237
4	6991	6946	7004	7149	7236
5	6984	6939	6861	6981	7080
6	6992	6948	6796	6915	6925
7	7010	6967	6827	6974	6834
8	6919	6877	6682	6784	6842
9	6856	6816	6543	6628	6669
10	6837	6796	6465	6543	6550
11	6798	6758	6477	6564	6477
12	6761	6723	6198	6249	6471
13	6760	6723	6139	6167	
14	6797	6760			
15	6697	6659			
16	6606	6572			
17	6541	6511			
18	6519	6490			
19	6464	6438			
20	6422	6399			
21	6407	6383			
22	6432	6402			
23	6201	6179			
24	6129	6125			
RISERS LENGHT MM					
A	B	C	D		
500	500	500	500	STANDARD	
350	425	462	500	ACCELERATED	

SUSPENSION

MATERIAL CODE		A-8001/U	A-8001/U	A-8001/U	A-8001/U	A-8001/U	A-8001/U	A-8001/U	TARAX
STRENGTH CODE		050	070	90	130	190	230	340	240
DIAMETER m/m	ø	0,5	0,7	0,8	0,9	1,1	1,1 x 1,4	1,4 X 1,9	1,9
CORE MATERIAL		ARAMID	ARAMID	ARAMID	ARAMID	ARAMID	ARAMID	ARAMID	Dyneema
SLEEVE MATERIAL		NO	NO	NO	NO	NO	NO	NO	Polyester
WEIGHT G/M	TOTAL	0,3	0,4	0,5	0,8	1,1	1,4	2,1	2,3
BREAKING STRENGTH daN	MINIMUM	50	70	90	130	190	230	360	240
	MAXIMUM	59	78	110	144	211	255	380	
STRENGTH AFTER 5.000 BENDING CYCLES	TEST EN	26	39	49	88	52	69	196,6	
ELONGATION AT	5 daN en %	0,4	0,5	0,4	0,4	0,4	0,3	0,2	0,1-0,3
	10 daN en %	0,7	0,7	0,6	0,6	0,6	0,5	0,3	0,2-0,4
	15 daN en %	1,1	1	0,8	0,8	0,7	0,6	0,4	0,2-0,6
	20 daN en %	1,5	1,3	1	0,9	0,9	0,7	0,5	0,3-0,7
	25 daN en %	1,9	1,5	1,3	1	1	0,8	0,6	0,4-0,8
	30 daN en %	3,3	2,8	2,3	1,8	1,6	1,3		
	75 daN en %		3,7	3,2	3,1	2,7	2,3	1,5	0,9-1,2
	100 daN en %					2,6	3,6	1,9	1,1-1,5
	125 daN en %					3,5	3,3		
	150 daN en %					4,3	3,6	2,6	1,5-2,1
	175 daN en %								
	200 daN en %							3,1	2-2,8
	250 daN en %							3,6	
ELONGATION MAX. BREAKING STRENGTH %		3,8	3,9	4,3	4	4,4	4,4		

MAILLON & PULLEY TECHNICAL DATA

DESCRIPTION	
MAILLON	DELTA
CODE	MRI4
MATERIAL	STAINLESS STEEL
SIZE	4,3 m/m
WEIGHT	12 G/PIECE
QUANTITY	8 PIECES
INSERTS	2 GREEN / 6 BLACK

TECHNICAL SPECIFICATIONS	
	DIMENSIONS
	m/m
	A 28
	B 20
	C 38
	D 30
	E 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%

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	G-R 22
MATERIAL	POLYESTER
WIDTH	22 M/M
THICKNESS	1,52 M/M
BREAKING STRENGTH	1,100DAN
ELONGATION	MAX. 15%
WEIGHTH	25 G* L.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 %
WEIGHTH	32 G * L.M.
COLOR	GREEN

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



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