



Service documents

Freeway 3

V07/09/2021

Service manual

The latest version of service manual is available at:

<https://dudek.eu/en/przeglady-i-naprawy/>

Inspections

Full Inspection is recommended every 24 months or every 150 hours whatever comes first, if not advised otherwise by the inspecting person due to paraglider's condition.

In case of paragliders used commercially (e.g. in schools or tandem flying) a Full Inspection is recommended every 12 months after first 24 months from purchase date or every 100 hours airtime (whatever comes first).

A paraglider can be officially inspected only by the manufacturer or a dealer (authorised to do so).

Zero Inspection

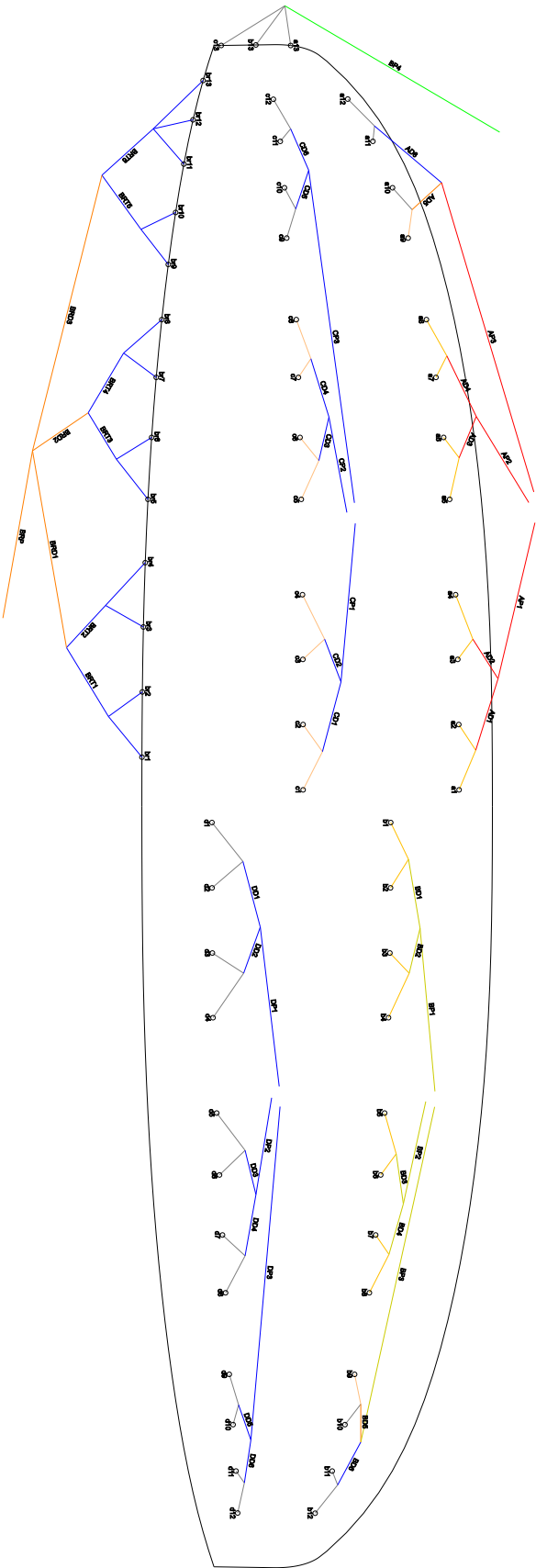
It is usually valid for 24 months from the date of manufacture of the wing. For some wings, the period of validity of this inspection is shorter – it is specified in the data sticker sewn into the wing.

Freeway 3

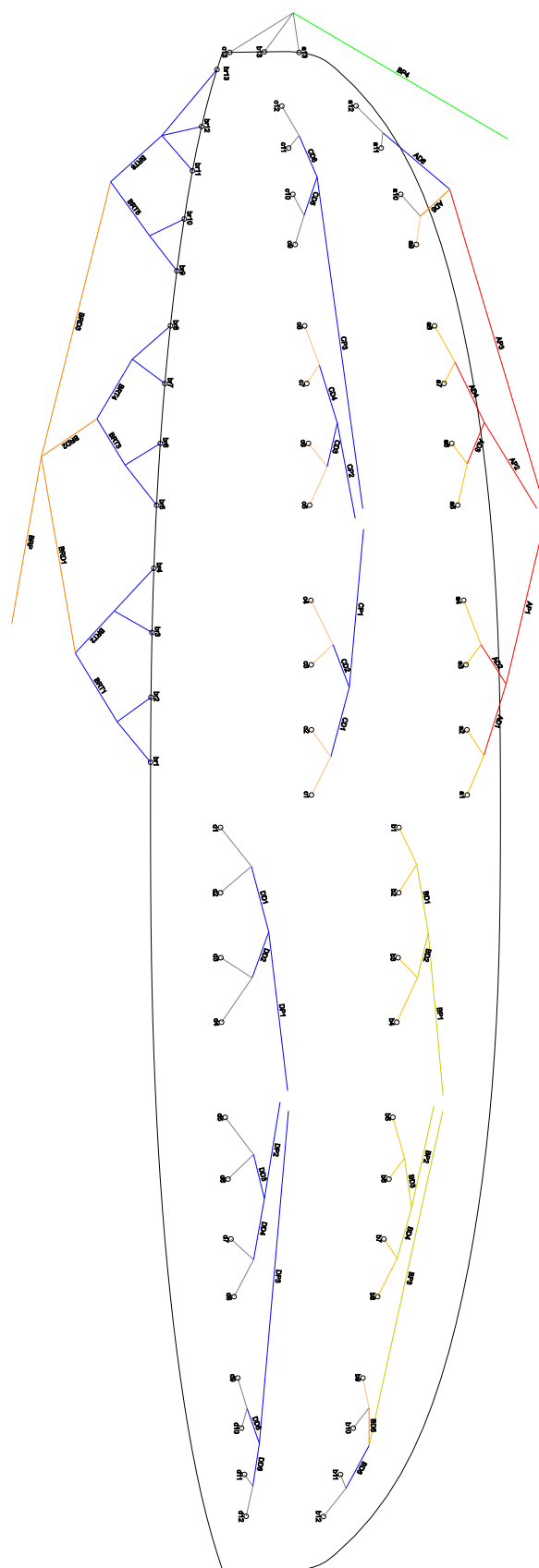
	18	20	22
Load certification EN:926-1	yes	yes	yes
Number of cells	55	55	55
Surface area (flat) [m ²]	18,00	20,00	22,00
Surface area (projected) [m ²]	15,84	17,60	19,36
Span (flat) [m]	9,68	10,20	10,70
Span (projected) [m]	8,11	8,55	8,96
Aspect Ratio (flat)	5,20		
Aspect Ratio (projected)	4,15		
Max. cord [mm]	2227,00	2346,00	2461,00
Min. cord [mm]	752,00	792,00	831,00
Distance pilot to wing [m]	7,29	7,68	8,05
Total line lenght [m]	315,29	333,11	350,01
Total take-off weight [kg]	58 – 104	64 – 116	71 – 120
Weight [kg]	4,88	5,33	5,82
Lines	Edelrid A-8000U: 070; 090; 130; / 7343: 90; 140; 190; 280; 380		
Fabric	Porcher Sport Universal 38 g/m ²		
	Porcher Sport Universal 32 g/m ²		
	Dominico 20 DMF 34 g/m ²		
	Porcher Sport Hard 40 g/m ²		
Risers	PASAMON - Bydgoszcz, Polska		



Size: 18, 22



Size: 20



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Tabele / The tables / Tables / Tabelle:

Długości i rodzaj poszczególnych linek

The individual lengths and type of line

La longueur et le type de chaque ligne

Die einzelnen Leinlängen und Art.

	a	b	c	d	br
1	1083	1078	1039	971	1043
2	989	985	933	863	857
3	1043	1038	993	925	1056
4	1059	1054	1020	950	1013
5	1026	1018	982	919	1007
6	956	952	907	840	922
7	945	929	886	831	915
8	946	934	902	841	924
9	855	820	751	735	845
10	755	724	649	621	771
11	805	732	636	616	943
12	770	701	601	561	883
13	847	821	856		891

	AD	BD	CD	DD	BRT
1	1081	1075	887	975	1213
2	997	993	794	881	881
3	1083	1065	872	965	978
4	1060	1057	864	939	914
5	895	827	683	662	1015
6	770	750	623	578	794

	AP	BP	CP	DP	BRD
1	4541	4470	4735	4824	2604
2	4446	4395	4657	4725	2424
3	4575	4615	4875	4973	2340
4		5027			

BRP 2345

Sumaryczna długość linek (z taśmami)

The total lengths (with risers)

Longueur des suspentes (avec élévateurs)

Gesamtlänge der Leinen (mit Tragegurten)

	a	b	c	d	br
1	7284	7197	7240	7360	7215
2	7190	7105	7136	7254	7029
3	7158	7079	7105	7220	6902
4	7177	7094	7132	7244	6857
5	7136	7055	7092	7200	6762
6	7064	6989	7019	7119	6678
7	7030	6958	6992	7087	6605
8	7032	6961	7007	7097	6616
9	6909	6846	6901	6958	6550
10	6812	6753	6797	6844	6481
11	6737	6687	6725	6760	6434
12	6701	6654	6690	6703	6375
13	6469	6446	6478		6382

Technora A 8000U-070: XXXX

Technora A 8000U-090: XXXX

Technora A 8000U-130: XXXX

Technora 7343-90: XXXX

Technora 7343-140: XXXX

Technora 7343-190: XXXX

Technora 7343-280: XXXX

Technora 7343-340: XXXX

Total suspension lines length, measured from the lower surface of the canopy to the inside edge of the main carabiner (tolerancy +/- 10 mm)

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Tabele / The tables / Tables / Tabelle:

Długości i rodzaj poszczególnych linek

The individual lengths and type of line

La longueur et le type de chaque ligne

Die einzelnen Leinlängen und Art.

	a	b	c	d	br
1	1141	1136	1095	1024	1099
2	1044	1039	985	911	907
3	1099	1093	1046	974	1108
4	1117	1112	1075	1002	1069
5	1082	1073	1035	969	1061
6	1009	1004	957	886	974
7	995	979	934	875	964
8	997	985	951	887	975
9	901	864	792	775	891
10	796	763	685	654	814
11	848	772	670	649	987
12	811	739	633	592	933
13	893	865	903		984

Sumaryczna długość linek (z taśmami)

The total lengths (with risers)

Longueur des suspentes (avec élévateurs)

Gesamtlänge der Leinen (mit Tragegurten)

	a	b	c	d	br
1	7675	7583	7639	7753	7580
2	7572	7486	7528	7639	7390
3	7541	7458	7497	7603	7252
4	7562	7479	7525	7632	7209
5	7520	7437	7486	7587	7114
6	7445	7368	7409	7504	7027
7	7409	7336	7374	7464	6939
8	7408	7342	7393	7478	6951
9	7287	7210	7257	7319	6881
10	7185	7109	7148	7196	6805
11	7103	7041	7071	7106	6753
12	7066	7009	7034	7047	6701
13	6822	6792	6832		6742

	AD	BD	CD	DD	BRT
1	1138	1132	933	1027	1277
2	1052	1048	839	931	934
3	1141	1122	919	1017	1049
4	1118	1115	911	990	966
5	944	872	720	697	991
6	811	791	657	610	768

Technora A 8000U-070:

XXXX

Technora A 8000U-090:

XXXX

Technora A 8000U-130:

XXXX

Technora 7343-90:

XXXX

	AP	BP	CP	DP	BRD
1	4809	4740	5023	5113	2764
2	4712	4664	4944	5013	2564
3	4850	4889	5155	5261	2557
4		5330			

Technora 7343-140:

XXXX

Technora 7343-190:

XXXX

Technora 7343-280:

XXXX

BRP 2440

Technora 7343-340:

XXXX

Total suspension lines length, measured from the lower surface of the canopy to the inside edge of the main carabiner (tolerancy +/- 10 mm)

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Tabele / The tables / Tables / Tabelle:
Długości i rodzaj poszczególnych linek
The individual lengths and type of line
La longueur et le type de chaque ligne
Die einzelnen Leinlängen und Art.

	a	b	c	d	br
1	1197	1192	1149	1074	1180
2	1096	1091	1034	956	953
3	1152	1146	1097	1021	1177
4	1172	1167	1128	1051	1122
5	1135	1125	1085	1016	1113
6	1059	1053	1004	929	1022
7	1044	1027	979	918	1010
8	1046	1033	998	931	1023
9	945	907	831	813	935
10	835	801	718	686	855
11	889	810	703	681	1035
12	851	775	664	621	980
13	937	907	946		998

	AD	BD	CD	DD	BRT
1	1192	1186	977	1075	1338
2	1105	1101	882	977	983
3	1196	1177	963	1066	1078
4	1173	1171	956	1040	1015
5	990	914	755	731	1039
6	851	830	689	640	791

	AP	BP	CP	DP	BRD
1	5084	4996	5291	5386	2904
2	4985	4921	5212	5285	2729
3	5131	5168	5446	5572	2674
4		5608			

BRP 2675
Sumaryczna długość linek (z taśmami)
The total lengths (with risers)
Longueur des suspentes (avec élévateurs)
Gesamtlänge der Leinen (mit Tragegurten)

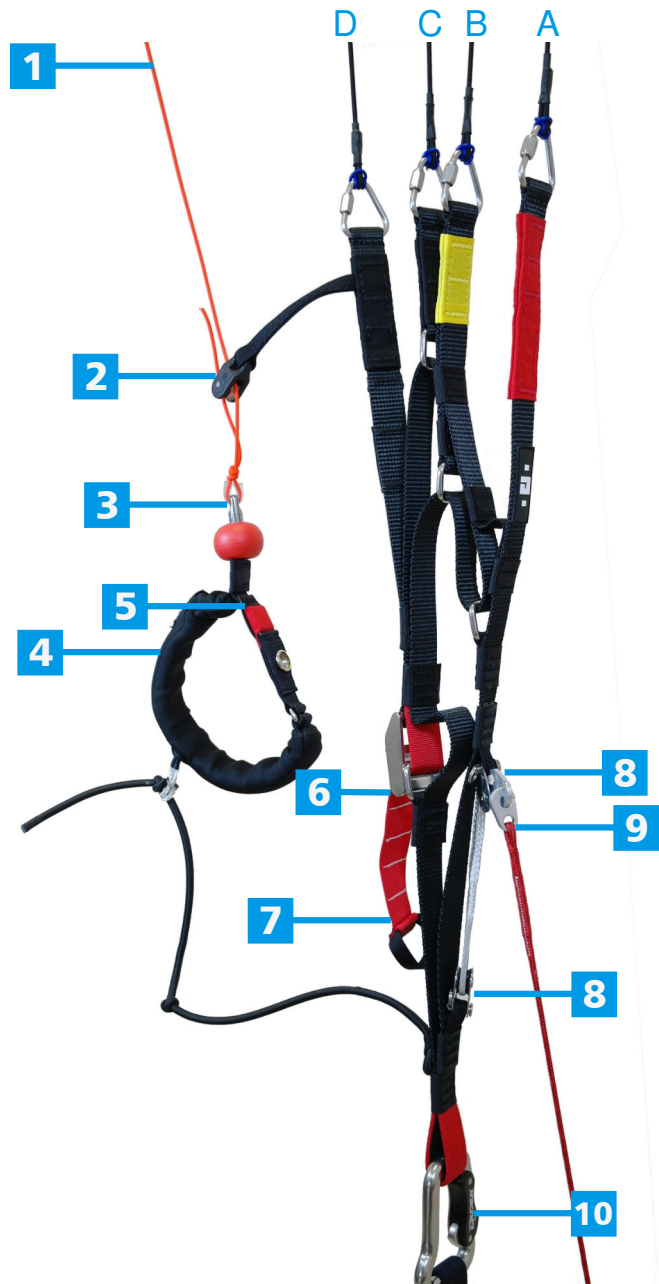
	a	b	c	d	br
1	8049	7947	7998	8126	8109
2	7946	7848	7887	8005	7882
3	7917	7819	7856	7974	7750
4	7938	7839	7886	8001	7698
5	7891	7801	7842	7954	7608
6	7815	7729	7762	7870	7516
7	7781	7694	7734	7829	7444
8	7782	7700	7753	7847	7458
9	7652	7571	7623	7705	7337
10	7544	7472	7511	7577	7257
11	7459	7401	7431	7486	7190
12	7422	7366	7391	7421	7136
13	7144	7115	7157		7156

Technora A 8000U-070: XXXX
Technora A 8000U-090: XXXX
Technora A 8000U-130: XXXX
Technora 7343-90: XXXX
Technora 7343-140: XXXX
Technora 7343-190: XXXX
Technora 7343-280: XXXX
Technora 7343-340: XXXX

Total suspension lines length, measured from the lower surface of the canopy to the inside edge of the main carabiner (tolerancy +/- 10 mm)



- 1** Steering line
- 2** Pulley
- 3** Covered swivel
- 4** Steering handle
- 5** Easy Keeper magnets with naps
- 6** Trimmer buckle
- 7** Trimmer strap
- 8** Speed system pulleys
- 9** Speed system hoooks
- 10** Carabiner



Other informations:

Number of risers: 4

Trimmers: YES

Slow mode

Trimmers completely closed

Speed inactive

- slowest speed
- minimum sink
- take off position

Risers' length*:

A- 585

B- 585

C- 585

D- 585

* lengths of the risers incl. maillons,
length tolerance +/- 5mm.



Fast mode

Trimmers completely closed (0)

Speed active

- increased speed
- Increased sink

Risers' length*

A- 465

B- 485

C- 535

D- 585

* lengths of the risers incl. maillons,
length tolerance +/- 5mm.



Accelerated mode

Trimmers off

Speed inactive

- increased speed
- Increased sink

Risers' length*:

A- 585

B- 600

C- 617

D- 635

* lengths of the risers incl. maillons,
length tolerance +/- 5mm.



Full speed mode

Trimmers completely closed (0)

Speed active

- maximum speed
- maximum sink

Risers' length*

A- 465

B- 485

C- 560

D- 635

* lengths of the risers incl. maillons,
length tolerance +/- 5mm.



Name of product	Dimension	Supplier	Location of use								
			Others	Top surface front	Top surface	Bottom surface front	Bottom surface	Ribs suspended	Ribs unsuspended	Diagonals	Vector – stripes
<u>CANOPY</u>											
Porcher 09017 1580 E25	38gr	NCV industries	x	x	x		x				
Porcher 09092 1580 E29A	45gr	NCV industries						x		x	x
Porcher 70032 1580 E3W	32gr	NCV industries									
Dominico DOKDO-20DMF(WR)	34gr	Domico Textile				x	x				
Nylon Fibre 2,0mm	fi 2,0mm	Zarys	Reinforcements on ribs								
Nylon Fibre 2,4mm	fi 2,4mm	Zarys	Reinforcements on ribs								
Porcher 09017 1520 YET	80gr	NCV industries	Reinforcements								
Porcher 02420 1450 X15	180gr	NCV industries	Reinforcements								
Webbing 57 501/12,5	12,5mm	GUTH & WOLF	Suspension points				&	Edging on intake			
Machine thread Durafix size 60	60	Durak	Canopy sewing								
<u>LINES</u>			Others	Main	Brake						
Technora A-7343-090	1,2mm/90 daN	Edelrid	x		x						
Technora A-7343-140	1,3mm/140 daN	Edelrid	x	x	x						
Technora A-7343-280	1,8mm/280 daN	Edelrid		x							
Technora A-7343-190	1,5mm/190 daN	Edelrid	x	x							
Technora A-7343-340	2,1mm/340 daN	Edelrid			x						
Technora A-8000/U-070	0,7mm/70 daN	Edelrid	x								
Technora A-8000/U-090	0,8mm/90 daN	Edelrid	x								
Technora A-8000/U-130	1,0mm/130 daN	Edelrid	x								
Machine thread Durafix size 60	60	Durak	Lines sewing								
<u>RISERS & METAL PARTS</u>											
Line D-pro 3,0	fi 3,0mm	Liros	Accelerator line								
Neodymium magnet 17x17x3[N38]	17x17x3mm	Anfeng Magnet	Brake handle magnet								
DUDEK Smart Pulley	fi 16mm	Fixi / Dudek	Accelerator pulley				&	Brake pulley			
Delta Inox MRDI03.5	fi 3,5mm	Pequet	Maillon								
Brummel Hook Be 180	25mm	Finsterwalder	Accelerator hook								
Rectangle inox - welded	20/4mm	Sow-Yacht	Riser constraction								
Rectangle inox - welded	25/4mm	Sow-Yacht	Riser constraction								
Buckle regulator 25mm	25mm	NINGBO	Buckle trimer								
Machine thread Durafix size 20	20	Durak	Riser sewing								
Rubber O-rings 14x2mm	14x2mm	ABS Serwis	For lines protection								
Webbing TE216/20D	20mm	Pasamon	Riser main								
Webbing TS548/20	20mm	Pasamon	Trimer tape								
Webbing TS548/25	25mm	Pasamon	Trimer tape								
Webbing TS548/10	10mm	Pasamon	Suspension for accelerator pulley					Suspension for brake pulley			
Webbing TS555/20	20mm	Pasamon	Suspension for accelerator pulley					Suspension for brake pulley			
Webbing TS555/25	25mm	Pasamon	Suspension for accelerator pulley								