AEROTECH A42td glider (110-220 kg) – flight manual values

Lengths in mm, under 5 kg. Tolerance: as recommended by the PMA.

Overall line lengths with risers (bottom of risers → lower surface)

Rib	A	B	C	D	E	Brake
1	9101	9010	9034	9124	9226	9989
2	9026	8936	8962	9046	9158	9592
3	9003	8917	8934	9023	9135	9322
4	9051	8965	8984	9078	9175	9088
5	8996	8919	8929	9035	9110	8934
6	8851	8783	8796	8909	8989	8726
7	8784	8725	8745	8864	8941	8642
8	8824	8770	8793	8920	8986	8673
9	8576	8563	8604	8676		8595
10	8403	8409	8448	8531		8540
11	8298	8314	8340	8419		8486
12	8271	8281	8283	8361		8459
(brake)						8445
13	7994	7955	8003	8058		
14	7904	7949	7955	8064		

Overall line lengths without risers (quick link → lower surface)

Rib	A	B	C	D	E	Brake
1	8684	8593	8617	8707	8809	9989
2	8609	8519	8545	8629	8741	9592
3	8586	8500	8517	8606	8718	9322
4	8634	8548	8567	8661	8758	9088
5	8579	8502	8512	8618	8693	8934
6	8434	8366	8379	8492	8572	8726
7	8367	8308	8328	8447	8524	8642
8	8407	8353	8376	8503	8569	8673
9	8159	8146	8187	8259		8595
10	7986	7992	8031	8114		8540
11	7881	7897	7923	8002		8486
12	7854	7864	7866	7944		8459
(brake)						8445
13	7577	7538	7586	7641		
14	7487	7532	7538	7647		

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Risers (without quick links)

Riser	Trimmers closed	Trimmers released
A	420	420
A'	420	420
B	420	443
C	420	467
D	420	515

Line materials (flight manual)

Lines	Manufacturer	Reference
Main lines – upper level	Liros	PPSL 160/120 / DSL 70
Main lines – middle level	Liros	PPSL 200/160/120
Main lines – lower level	Edelrid	7343-420/280/230
Main lines – stabilo	Edelrid	7343-140
Brake lines – upper level	Liros	DSL 70
Brake lines – intermediate level	Liros	PPSL 160/120
Brake lines – lower level	Edelrid	7850X-240
Lines / risers connection	Joo-Tech	Screw links

AEROTECH A42td glider (110-220 kg) – flight manual values

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Lines – finished length loop to loop, under 5 kg (per side)

Line	Finished length (mm)
a1	629
a2	554
a3	558
a4	606
a5	1411
a6	1266
a7	1262
a8	1302
a9	996
a10	823
a11	821
a12	794
a13	566
AM1	1638
AM2	1611
AM3	1318
AM4	1255
AM5	868
AM6	765
AR1	6443
AR2	5876
AR3	5845
AR3 Bot	489
b1	629
b2	555
b3	558
b4	606
b5	1403
b6	1267
b7	1263
b8	1308
b9	980
b10	826

Line	Finished length (mm)
b11	822
b12	789
b13	527
BM1	1635
BM2	1613
BM3	1315
BM4	1261
BM5	870
BM6	779
BR1	6355
BR2	5810
BR3	6320
c1	626
c2	554
c3	554
c4	604
c5	1402
c6	1269
c7	1264
c8	1312
c9	984
c10	828
c11	821
c12	764
c13	512
CM1	1645
CM2	1617
CM3	1314
CM4	1268
CM5	885
CM6	784
CR1	6368
CR2	5818

Line	Finished length (mm)
CR3	6338
d1	836
d2	758
d3	757
d4	812
d5	707
d6	683
d7	644
d8	612
d9	980
d10	835
d11	831
d12	773
d13	567
DM1	1428
DM2	1406
DM3	815
DM4	713
DM5	747
DM6	835
DM7	961
DM8	853
DML1	1193
DML2	1153
DR1	6481
DR2	5941
e1	938
e2	870
e3	869
e4	909
e5	782
e6	763
e7	721

Line	Finished length (mm)
e8	678
STMain	6374
STMA	660
STMB	723
sta	476
stb	521
stc	464
std	573
br1	2006
br2	1609
br3	1626
br4	1392
br5	1461
br6	1253
br7	1218
br8	1249
br9	1125
br10	1070
br11	797
br12	755
br13	724
BRM1	1802
BRM2	1515
BRM3	1315
BRM4	1266
BRM5	1075
BRM6	1287
BRML1	2585
BRML2	2562
BRML3	2799
BRmain	3599

AEROTECH A42td glider (110-220 kg) – flight manual values

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Lines layout

