AEROTECH A1 S glider (55-85 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	Brake
1	6712	6638	6763	6837	6951
2	6625	6547	6664	6737	6703
3	6660	6576	6689	6753	6526
4	6610	6516	6616	6671	6471
5	6530	6441	6531	6580	6301
6	6556	6469	6552	6586	6207
7	6464	6361	6410		6214
8	6350	6270	6303		6189
9	6290	6220	6248		6128
(brake)					6159
10	6054	6043			
11	5896	5907	5968	6064	

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

Rib	A	B	C	D	Brake
1	6185	6111	6236	6310	6951
2	6098	6020	6137	6210	6703
3	6133	6049	6162	6226	6526
4	6083	5989	6089	6144	6471
5	6003	5914	6004	6053	6301
6	6029	5942	6025	6059	6207
7	5837	5834	5883		6214
8	5723	5743	5776		6189
9	5663	5693	5721		6128
(brake)					6159
10	5527	5516			
11	5369	5380	5441	5537	

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

Risers (without quick links)

Riser	Trim speed	Full speed bar
A	500	360
A'	600	460
B	500	428
C	500	500

Line materials (flight manual)

Lines	Manufacturer	Reference
Main lines – upper level	Liros	PPSL 120 / DSL 70
Main lines – middle level	Liros	PPSL 120
Main lines – lower level	Edelrid	7343-280/230/190/140
Main lines – stabilo	Edelrid	7343-140
Brake lines – upper level	Liros	DSL 70
Brake lines – intermediate level	Liros	PPSL 120
Brake lines – lower level	Edelrid	7850X-240
Lines / risers connection	Joo-Tech	Screw links

AEROTECH A1 S glider (55-85 kg) – flight manual values

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

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

Line	Finished length (mm)
AR1	4222
AR2	4242
AR3	4346
AM1	704
AM2	520
a1	2000
a2	1913
a3	1948
a4	1880
a5	1800
a6	1826
a7	836
a8	722
a9	1349
a10	643
BR1	4145
BR2	4153
BR3	4355
BM1	714
b1	2003
b2	1912
b3	1941
b4	1875
b5	1800
b6	1828
b7	814
b8	723
b9	1370
b10	632
CR1	4289
CR2	4248
CR3	4397
CM1	1513

Line	Finished length (mm)
CM2	1419
CM3	1452
CM4	1430
CM5	1351
CM6	1380
CM7	710
c1	488
c2	483
c3	475
c4	465
c5	459
c6	451
c7	825
c8	718
c9	1356
d1	562
d2	556
d3	539
d4	520
d5	508
d6	485
STMain	4410
STMA	491
STMB	564
sta	514
stb	525
stc	513
std	609
BRmain	2402
BRM1	1911
BRM2	2294
BRM3	2982
BRMU1	1293

Line	Finished length (mm)
BRMU2	1115
br1	1407
br2	1159
br3	1160
br4	1105
br5	1653
br6	1559
br7	1566
br8	810
br9	749
br10	780

AEROTECH A1 S glider (55-85 kg) – flight manual values

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

Lines layout

