

Parachute Wing Loadings

Jumpers exit weight /Parachute area

New Zealand Parachute Industry Association Rules:

Persons who hold less than a B Certificate shall not jump a main canopy with a wing loading exceeding 1.1 lb. per sq ft without the written permission of a CSO. (OP.01.7)

Exit Weight kg	Canopy Size →	100	120	140	160	180
45		1.0	0.8	0.7	0.6	0.6
50		1.1	0.9	0.8	0.7	0.6
55		1.2	1.0	0.9	0.8	0.7
60		1.3	1.1	0.9	0.8	0.7
65		1.4	1.2	1.0	0.9	0.8
70		1.5	1.3	1.1	1.0	0.9
75		1.7	1.4	1.2	1.0	0.9
80		1.8	1.5	1.3	1.1	1.0
85		1.9	1.6	1.3	1.2	1.0
90		2.0	1.7	1.4	1.2	1.1
95		2.1	1.7	1.5	1.3	1.2
100		2.2	1.8	1.6	1.4	1.2
110		2.4	2.0	1.7	1.5	1.3

In your canopy choice consider:

Age,
Material,
Design,
Condition,
Experience,
Makers
Guidelines.

New Zealand Parachute Industry Association Rules:

Student's main parachute shall be ram air type, suitable for student use. (OP.03.5 (a) 1).

Student wing loading of the main or reserve shall not exceed 1.1 (OP.03.5(c)4)

Industry guidelines- student wing loading recommendation max. approx 0.85

Canopy Size →	200	220	240	260	280	300	320	340
Exit weight kg								
45	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3
50	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.3
55	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4
60	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.4
65	0.7	0.7	0.6	0.6	0.5	0.5	0.4	0.4
70	0.8	0.7	0.6	0.6	0.6	0.5	0.5	0.5
75	0.8	0.8	0.7	0.6	0.6	0.6	0.5	0.5
80	0.9	0.8	0.7	0.7	0.6	0.6	0.6	0.5
85	0.9	0.9	0.8	0.7	0.7	0.6	0.6	0.6
90	1.0	0.9	0.8	0.8	0.7	0.7	0.6	0.6
95	1.0	1.0	0.9	0.8	0.7	0.7	0.7	0.6
100	1.1	1.0	0.9	0.8	0.8	0.7	0.7	0.6
110	XXXX	1.1	1.0	0.9	0.9	0.8	0.8	0.7

Wing loading heavy Wing loading light



New Zealand Parachute Industry Association

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This poster is put out by the NZPIA for assistance to CSOs and Operators

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