

## 12. Technical Data

### Recommended pilot + harness weight (Min/Max).

This is the range of pilot + harness weights (hook-in weight) ideal for the respective hang glider.

### DHV certification weight (Min/Max).

This figure is the total recommended take-off weight (hang glider + pilot + equipment).

The minimum weight value is the weight that ensures sufficient pilot control of the glider according to DHV standards.

The maximum value is the maximum weight that can be safely borne by the hang glider and equipment, considering a loading factor of +6/-3 g.

<b>ALTO</b>	<b>UoM</b>	<b>S</b>	<b>M</b>	<b>L</b>
Wing Surface	m <sup>2</sup> - sq ft	13.75 – 148.0	14.63 – 157.5	15.25 – 164.1
Wing Surface with wingtips	m <sup>2</sup> - sq ft	13.85 – 149.1	14.73 – 158.6	15.35 – 165.2
Nose Angle	°	128	128	128
Wing Span	m - ft	9.77 – 32.1	9.98 – 32.7	10.36 – 34.0
Wing Span with wingtips	m - ft	9.89 – 32.4	10.10 – 33.1	10.48 – 34.4
Aspect Ratio		6.9	6.8	7.0
Aspect Ratio with wingtips		7.0	6.9	7.2
Double Surface	%	85%	85%	85%
Battens (Upper + Lower)	n°	16 + 4	16 + 4	16 + 4
Weight (Without glider bag)	kg - lb	27 – 59.5	28.5 – 62.8	29.5 – 65.0
Hook-in Pilot Weight (Min / Max)	kg - lb	60/85 – 132/187	70/93 – 154/205	85/109 – 187/240
DHV Certification Weight (Min/Max)	kg - lb	75/115 – 165/254	80/121 – 176/267	90/138 – 198/304
VNE	km/h - mph	90 – 56	90 – 56	90 – 56
Stall speed	km/h - mph	29 – 18	29 – 18	28 – 17
Packed Length	m - ft	4.90 – 16.1	5.15 – 16.9	5.30 – 17.4
Short Packed Length	m - ft	3.45 – 11.3	3.90 – 12.8	3.94 – 12.9
CERTIFICATION				