



EPSILON DLS

Product presentation

INTERMEDIATE PARAGLIDER





EPSILON DLS

Discover your Potential

The Classic Intermediate EPSILON has now become a DLS product. This opens a complete spectrum of new possibilities for the very well-proven EPSILON Fun-Allrounder, now in its 10th generation. The EPSILON DLS has better performance, is even safer, and offers a noticeably rounder flying experience.

DLS stands for DURABLE LIGHTWEIGHT STRUCTURE and was introduced at the beginning of 2022 with the IOTA DLS. The new EPSILON DLS, weighing from 3.45* kg, is up to 850 gm lighter than the previous Epsilon, and now belongs in the light paraglider category as a function of its weight. Thanks to DLS technology its robustness and lifespan continue the tradition of earlier models.

The EPSILON series has been supporting improvers for 30 years; helping them develop their flying skills in the process. Climb higher, stay in the air longer, fly further: the EPSILON is the wing for the so many who have left their home site for the first time, and set out on the rewarding journey that is cross country flying. This Basis-Intermediate is the right partner for revealing a pilot's potential: perfect for exploring the whole spectrum of paraglider piloting.

* Size 22 with optional light risers

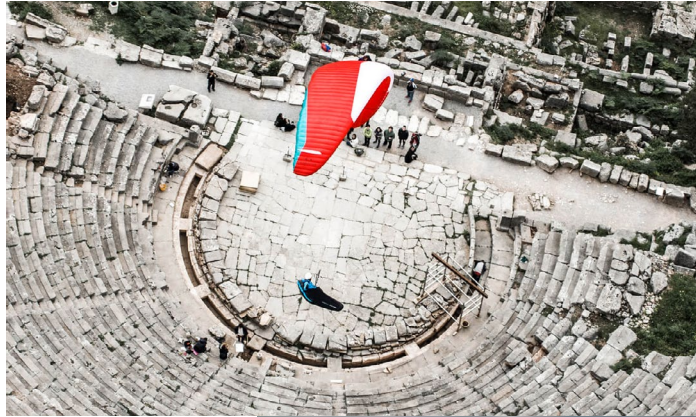




ADVANCE

Pioneering spirit and Swiss precision Our story

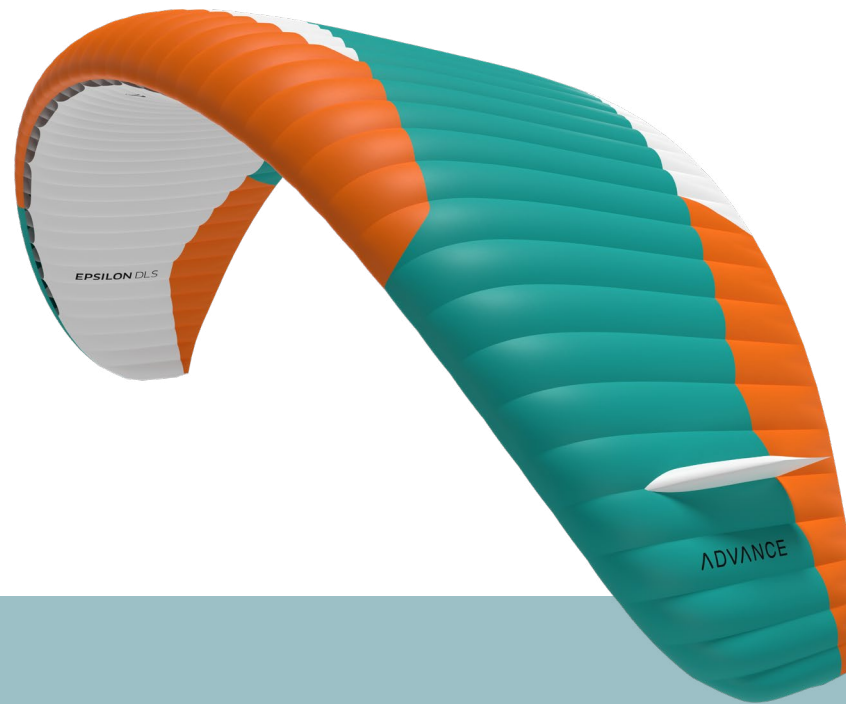
Putting our ideas into the air. That's what we can do. For more than 30 years, ADVANCE have kept the needs and wishes of our pilots at the forefront. With Swiss precision we refine model after model. Highest quality and absolute reliability have our top priority, in the air and in our customer service. So from pioneers we have become perfectionists, and a leading worldwide comprehensive service provider.





EPSILON DLS

Discover your Potential



INTUITIVE



LIGHT & DURABLE



EXPLORATIONAL



EPSILON DLS

Quick Facts

- **DLS means even more variety of use.** Weight reduced by up to 850 gm makes this wing better for Hike to Fly and travel.
- **Improved stability in direction and roll.** Gives a steadier flight, especially in bumpy air.
- **Uncomplicated and intuitive.** Well-damped feedback from the canopy, with improved turbulence absorption.
- **Compact pack.** Better for light reversible harnesses like the EASINESS 3.
- **Optional light risers now available.** Up to 180 gm lighter, with Softlinks.



EPSILON DLS

Pilots requirements

The EPSILON DLS is a Basic-Intermediate certified EN/LTF B. EPSILON pilots already have initial experience of flying in thermals and will have acquired a well-practised, active flying style. They can recognise the onset of a collapse and resist this without overreaction. Assuming this preparation, extended thermal flights with the EPSILON DLS represent pure piloting pleasure.



DLS

DURABLE LIGHTWEIGHT STRUCTURE

DLS COMBINES STRUCTURAL INVENTIVENESS WITH A UNIQUE COMBINATION OF FABRICS. THIS FORWARD-LOOKING DEVELOPMENT PHILOSOPHY INCLUDES A WHOLE HOST OF SMALL BUT EFFECTIVE DECISIONS, WHICH TOGETHER RESULT IN SIGNIFICANT WEIGHT REDUCTION. ROBUSTNESS AND DURABILITY REMAIN AT THE USUAL HIGH LEVEL.

More info: www.advance.swiss/en/dls

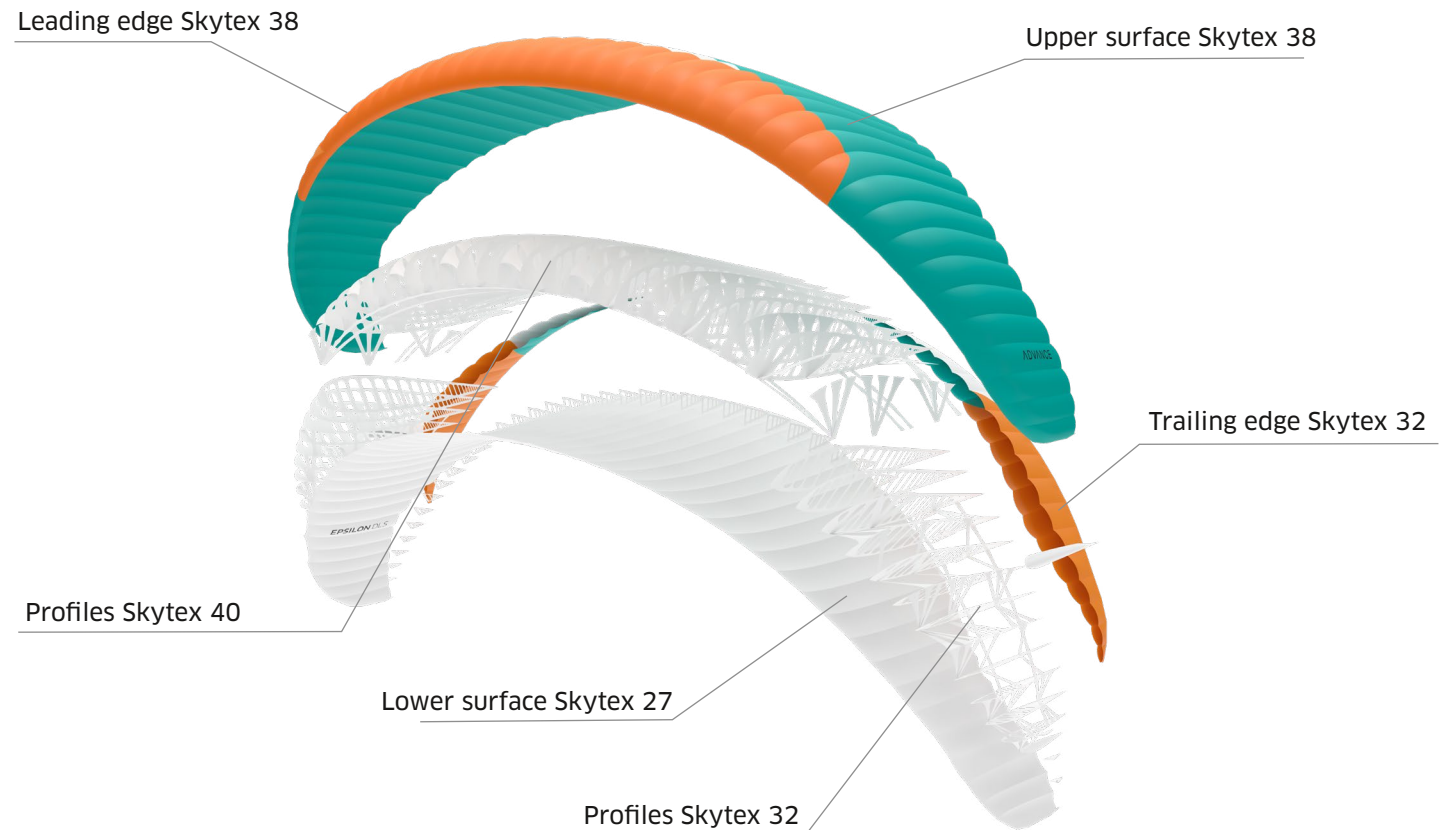


EPSILON DLS

DLS Philosophy

A SMART MIXTURE OF FABRICS

Highly stressed components such as leading edge, wing upper surface and more stressed profiles are made of a robust, low-stretch material mix. A relatively lighter material is used for less stressed areas, such as the wing lower surface.



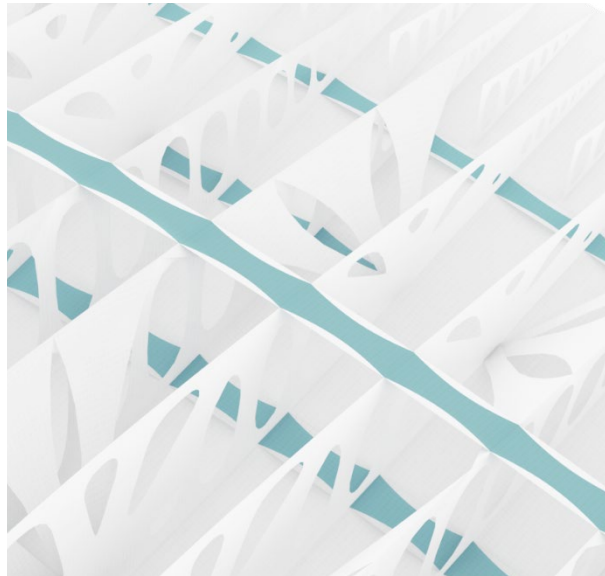


EPSILON DLS

DLS Philosophy

OPTIMISED INTERIOR

A whole host of very selective fabric economies in the internal structure add up to an impressive weight reduction without affecting structural strength. These geometric optimizations are the result of the magic of computer-aided analyses and deformation calculations.



Bone-Shaped tensioning straps



Perforated Mini-Ribs



EPSILON DLS

DLS Philosophy

LIGHT ADD-ONS

DLS also makes our risers and accessories lighter. Weight savings also apply, but again maintain our traditions of daily ruggedness and long life.



Light risers incl. softlinks



LIGHTPACK DLS



COMPRESSBAG DLS



EPSILON DLS

ADVANCE Brandfaces

"DLS MEETS THE NEEDS OF THE TIMES. MANY WANT LIGHTWEIGHT, BUT STILL ROBUST PRODUCTS. THEY DON'T WANT ULTRA-LIGHT GLIDERS BECAUSE THEY DON'T COMPLETELY FULFIL THEIR DESIRED LEVEL OF DURABILITY AND REQUIRE SPECIAL CARE."

Michael Maurer
Lead Testpilot R&D Team ADVANCE





EPSILON DLS

Features

CHOOSE YOUR RISERS

On request the EPSILON DLS can be ordered with light risers. These are 180 gm lighter and, as well as their specific materials differ from standard risers as follows:

- Softlinks replace quick links
- Poppers instead of magnets
- Ceramic rings replace pulleys
- A3 runners instead of Quick-Snap



Standard risers



Optional light risers



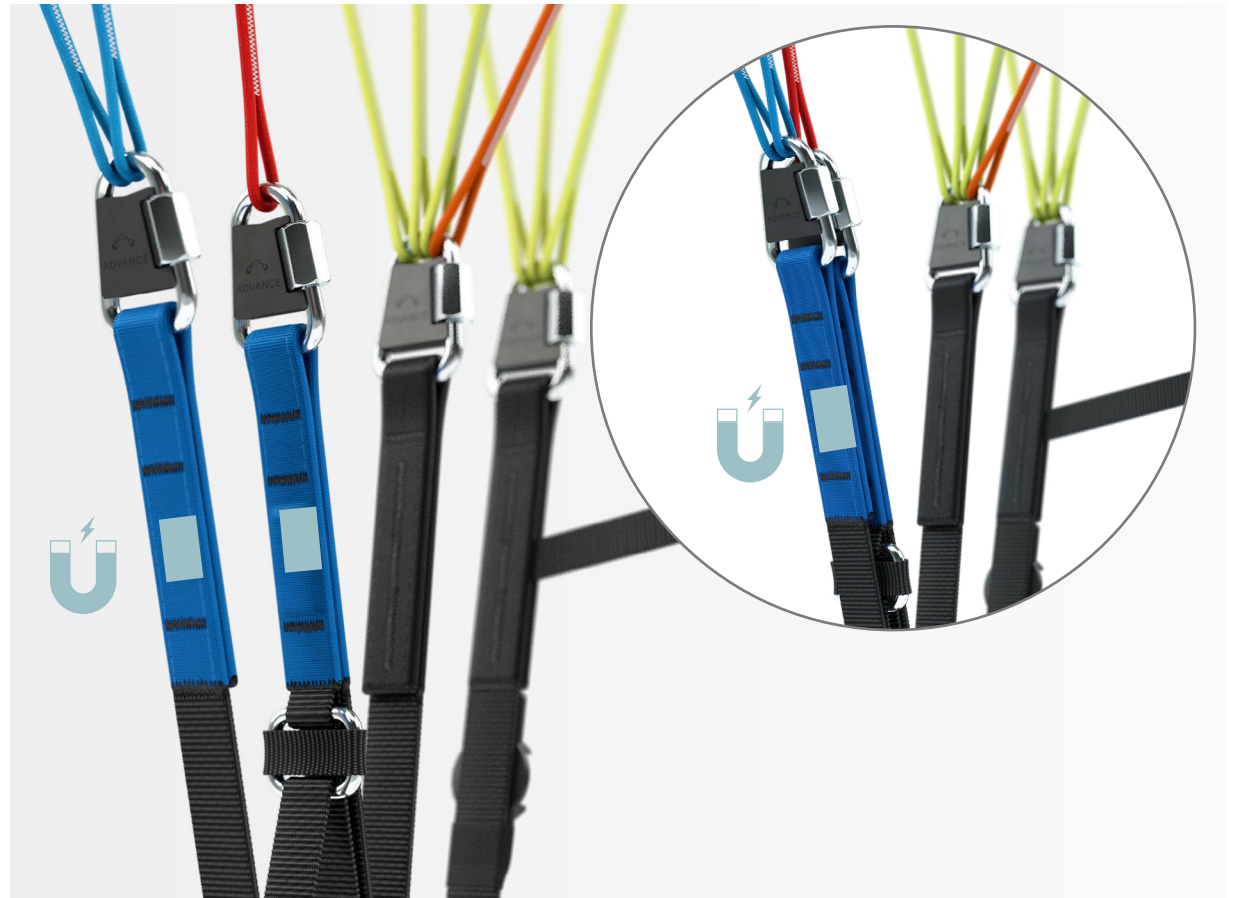


EPSILON DLS

Features

RISERS WITH SPLIT A RISERS (QUICK-SNAP)

Big ears made easy. A separated, easy to reach A riser make for easy and efficient EPSILON DLS big ears. The EPSILON DLS is easiest to take off using all A lines, and a “Quick-Snap” magnet system connects both A risers each side on the ground. Line sorting is child’s play. After takeoff the risers automatically separate and assume their normal position under flying loads.





EPSILON DLS

Features

HYBRID LINE ARRAY

Simple and easy-to-see sorting plus maximum performance: the EPSILON DLS has an intelligent line mix of covered Liros Dyneema base lines, with robust, uncovered Edelrid Aramid gallery lines.



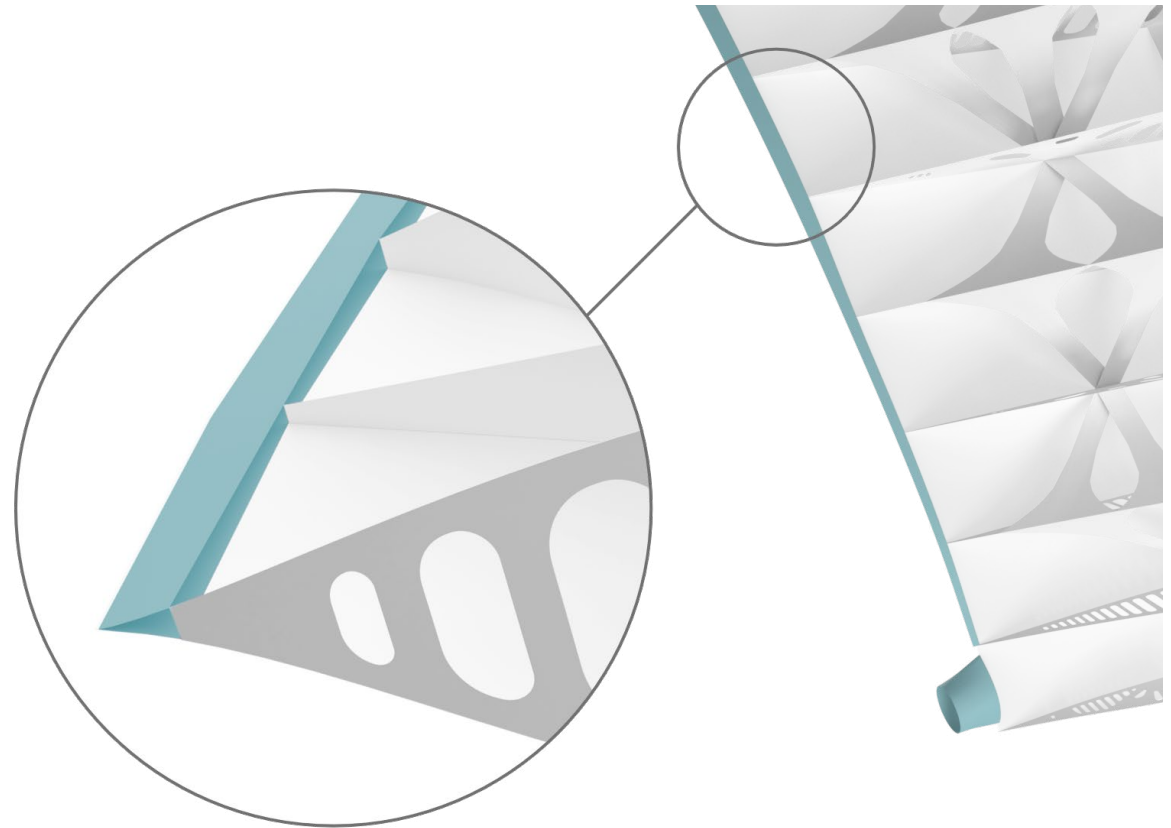


EPSILON DLS

Features

AUTOMATIC DUST REMOVER

The EPSILON DLS has a continuous, cross-cell dust removal channel along its trailing edge. Foreign bodies and substances such as dust, sand and melting snow can be emptied as required. Dirt can be either removed by shaking out on the ground, or passively airflowed out during flight.





EPSILON DLS PARAMOTOR

Certification

Its exceptional take off character and pronounced damping in all axes make the EPSILON DLS ideally suited to paramotor flying. Probably all 5 sizes will have DGAC paramotor certification. Paramotor risers with trimmers will then be available as an option, and the trimmers can be stowed away in the main carabiners for free flight.

The final weight ranges will be published soon!





EPSILON DLS

ADVANCE Brandfaces



"THE EPSILON DLS ABSORBS
TURBULENCE EVEN BETTER:
FOR YOU THIS MEANS MORE
REALISTIC PERFORMANCE
AND BETTER GLIDE RATIO."

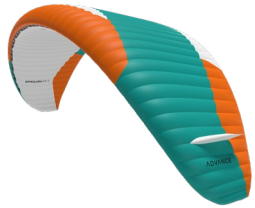
Christian Proschek

Lead Designer R&D Team ADVANCE and Flying instructor

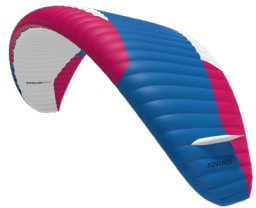


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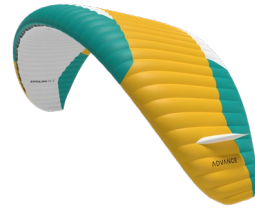
Colours



Spectra



Royal



Gold



Fire



EPSILON DLS

Scope of delivery



COMPRESSBAG DLS



REPAIR KIT



MINI WINDSOCK

Options



LIGHTPACK DLS



Light risers



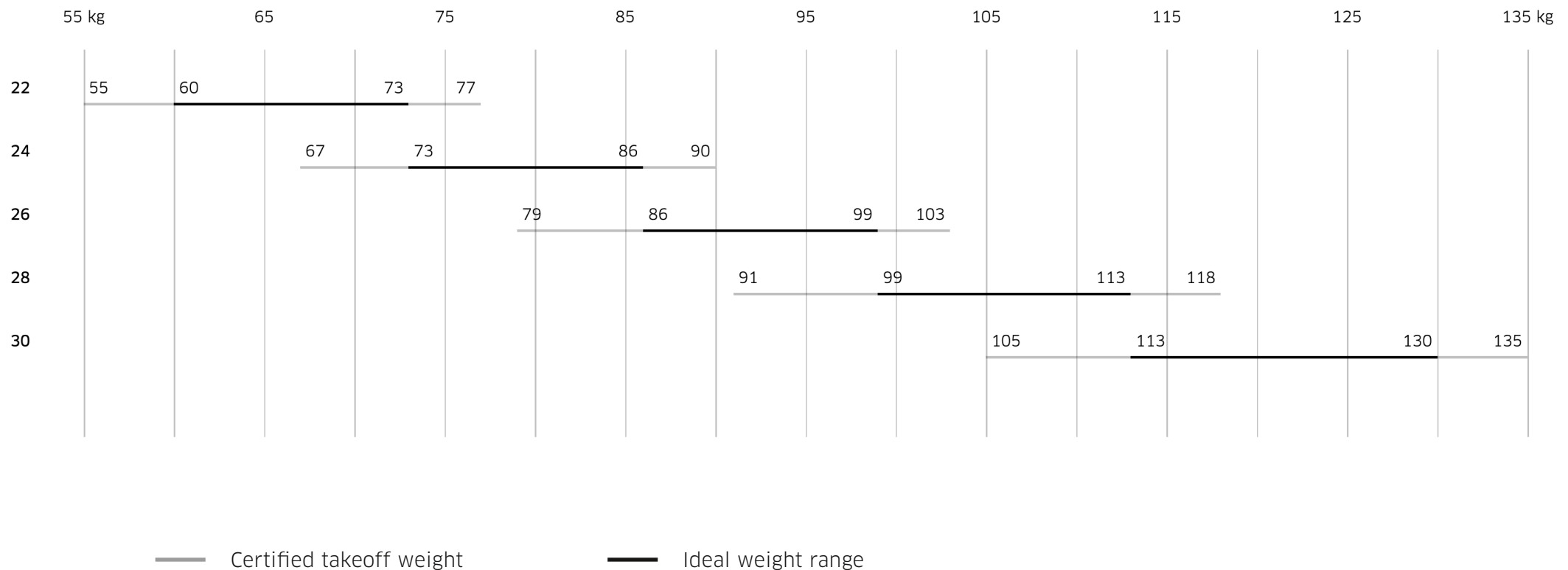
Paramotor risers



EPSILON DLS

Seamless Weight Ranges

The EPSILON DLS was designed with Seamless Weight Ranges in mind. This provides a continuous choice from one size to another for any pilot weight, taking into account preference of use. In the relevant ideal take-off weight range, the EPSILON DLS delivers the best balance of flying speed and climb performance for all flight conditions.





EPSILON DLS

Technical data

EPSILON DLS		22	24	26	28	30
Flat surface	m²	22	23.7	25.7	27.6	29.6
Projected surface	m²	18.5	20	21.7	23.3	24.9
Ideal weight range	kg	60-73	73-86	86-99	99-113	113-130
Certified takeoff weight	kg	55-77	67-90	79-103	91-118	105-135
Weight	kg	3.65	3.85	4.10	4.35	4.60
Weight with light risers	kg	3.45	3.65	3.90	4.15	4.40
Span	m	10.63	11.05	11.50	11.92	12.34
Projected span	m	8.23	8.56	8.91	9.23	9.56
Aspect ratio		5.14	5.14	5.14	5.14	5.14
Projected aspect ratio		3.67	3.67	3.67	3.67	3.67
Max. chord	m	2.59	2.70	2.81	2.91	3.01
Number of cells		47	47	47	47	47
Certification		EN/LTF B	EN/LTF B	EN/LTF B	EN/LTF B	EN/LTF B



EPSILON DLS

Materials

Leading edge	Skytex 38 universal, 39 g/m ²
Upper surface	Skytex 38 universal, 39 g/m ²
Lower surface	Skytex 27 classic 2, 29 g/m ²
Trailing edge	Skytex 32 universal, 32 g/m ²
Profiles	Skytex 40 hard finish, 40 g/m ² Skytex 32 hard finish, 33 g/m ²
Unsuspended profiles	Skytex 40 hard finish, 40 g/m ² Skytex 32 hard finish, 33 g/m ²
Diagonals	Skytex 40 hard finish, 40 g/m ² Skytex 32 hard finish, 33 g/m ²

Main lines	PPSLS 260, 200, 125
Galery lines	A-8001-190, -130, -090, -070, -050
Brake lines	A-8001-090, -070, -050
Steering lines	A-8001-190, A-7850-240
Risers	PES/Technora 12mm
Quick links	MR Delta 3.5mm / S12



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