NOVA

XENON

Product Presentation

XENON – Pure racing spirit

The XENON (EN/LTF D) is an ultralight two-liner for experienced pilots. Excellent glide performance, simple handling and a high degree of stability guarantee extensive XC miles without the risk of fatigue.

Reliable in extreme situations

Challenging launches, long flights in changeable conditions and spot landings in rough terrain – this is what the worlds famous hike & fly races are all about. The XENON (EN/LTF D) was designed to rise to these extreme situations. It offers pilots who want to get the most out of an XC day the perfect package of performance and safety. Thanks to a clever mix of materials, the superlight XENON is also extra-ordinarily durable.

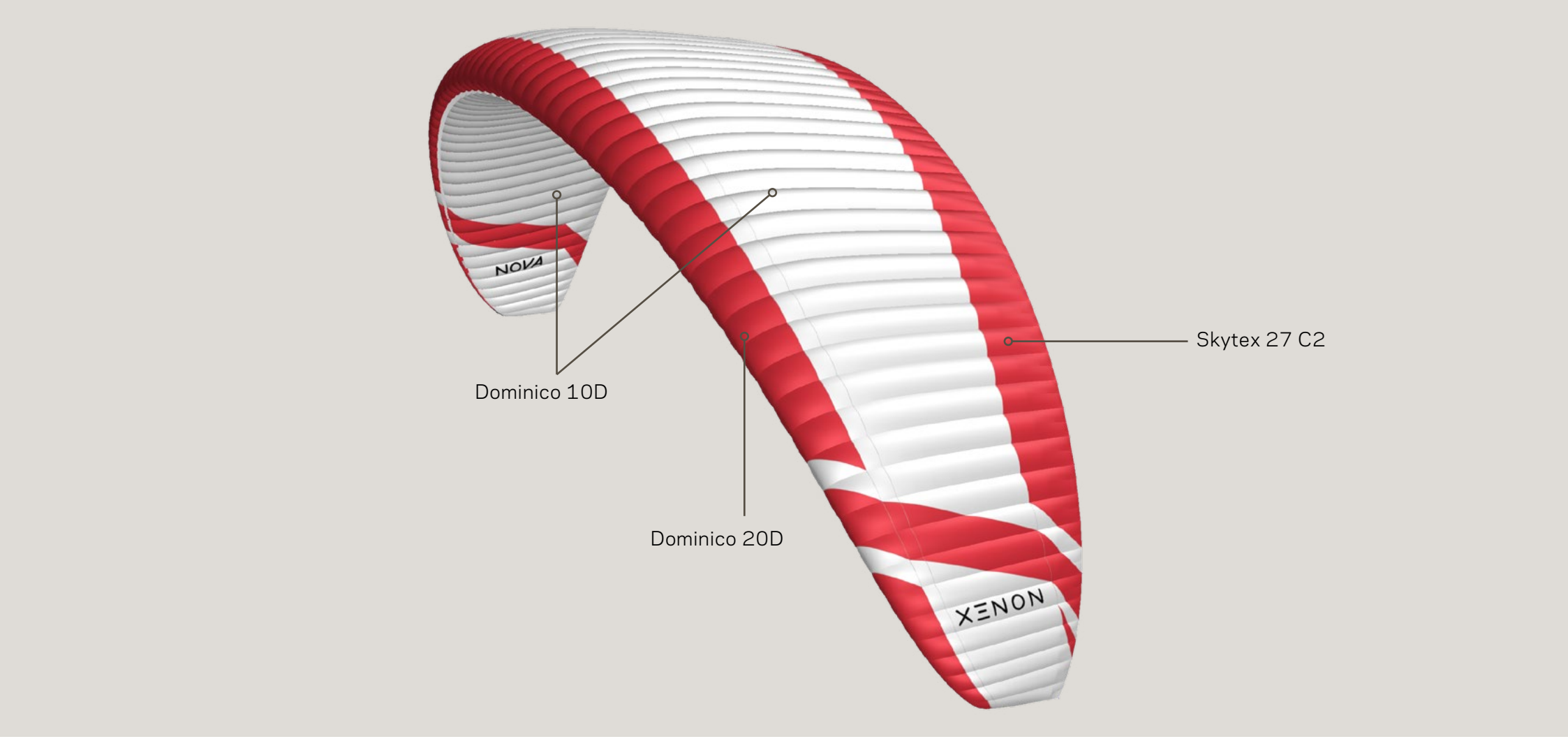
Quote from Philipp Medicus

(Head of R&D at NOVA)

"The development of the XENON was particularly exciting because we have enthusiastic XC and hike & fly pilots in the development team who are fascinated by the X-Alps and bivouac flying. From a technical point of view, the XENON is interesting because the target group demands a purist concept. You have to weigh up – literally – exactly what the glider needs and what is omitted to save weight."

Achieve top flight

Even at launch you will notice the simple handling, which ensures effortless thermalling for many hours. In accelerated straight flight, the XENON impresses with its glide performance and speed. The great stability and moderate pressure on the B-area allow this performance to be utilised in a relaxed manner, even in lively air. Therefore collapses are really rare. If the XENON does collapses, the reaction is tame for a glider of this aspect ratio. It does not tend to reopen abruptly, responds well to input during asymmetric collapses and shows no tendency to stall during a frontal.



Smart use of materials

With the XENON, we spared no effort to increase performance -including with the choice of materials. Nitinol rods fitted throughout the wing depth of the upper surface increase stability and thus performance. Nitinol is kink-resistant due to its shape memory and has better length stability than conventional nylon reinforcements. When it comes to the cloth, we rely on robust and dimensionally stable cloth in the front area of the upper surface. On the trailing edge we also dispensed with the lightest cloth available in favour of greater stability. This cloth is used for the entire undersurface and the main parts of the upper surface. Optimised in this way, the weight of the XENON is 3.15 kg in size 17.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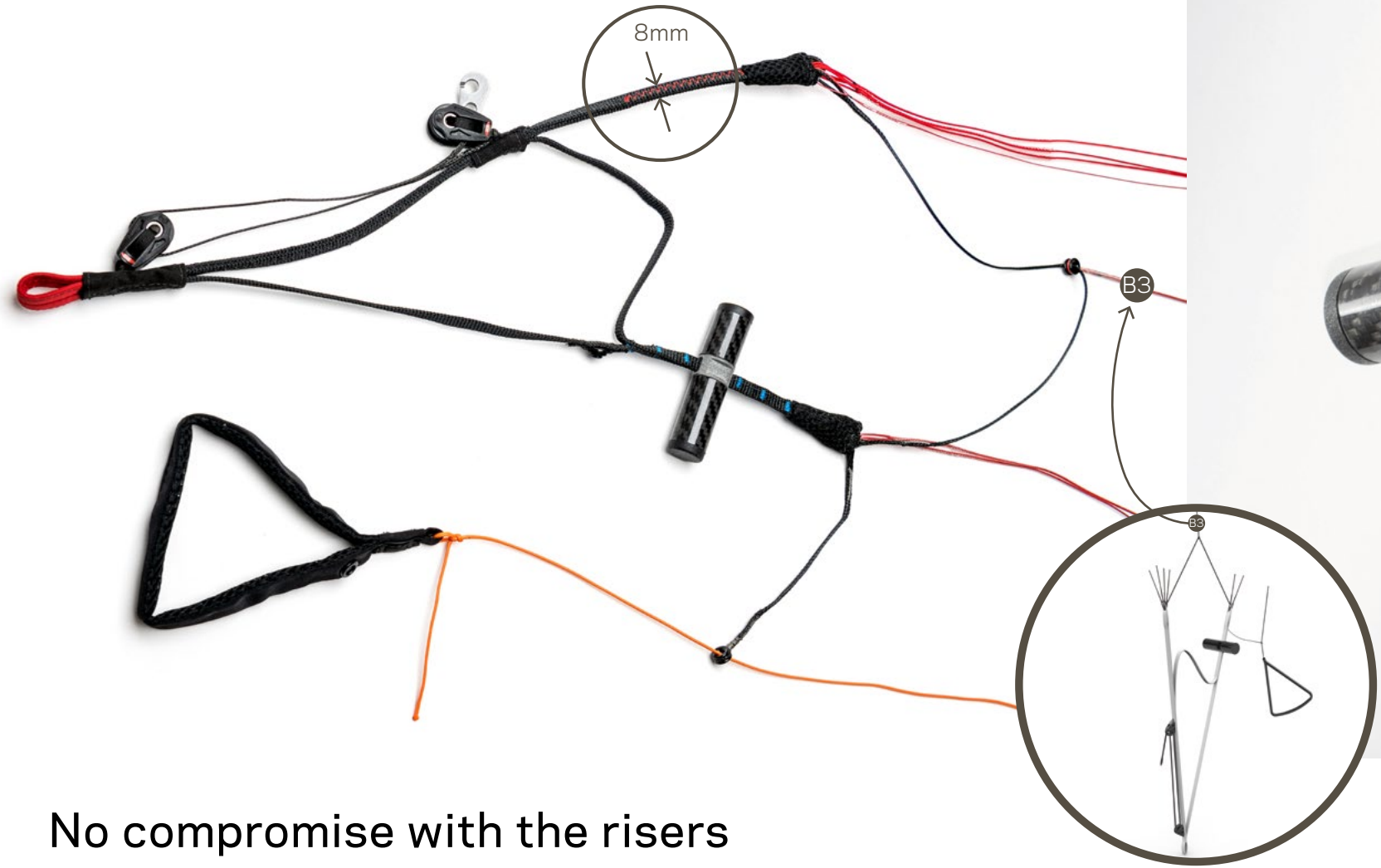
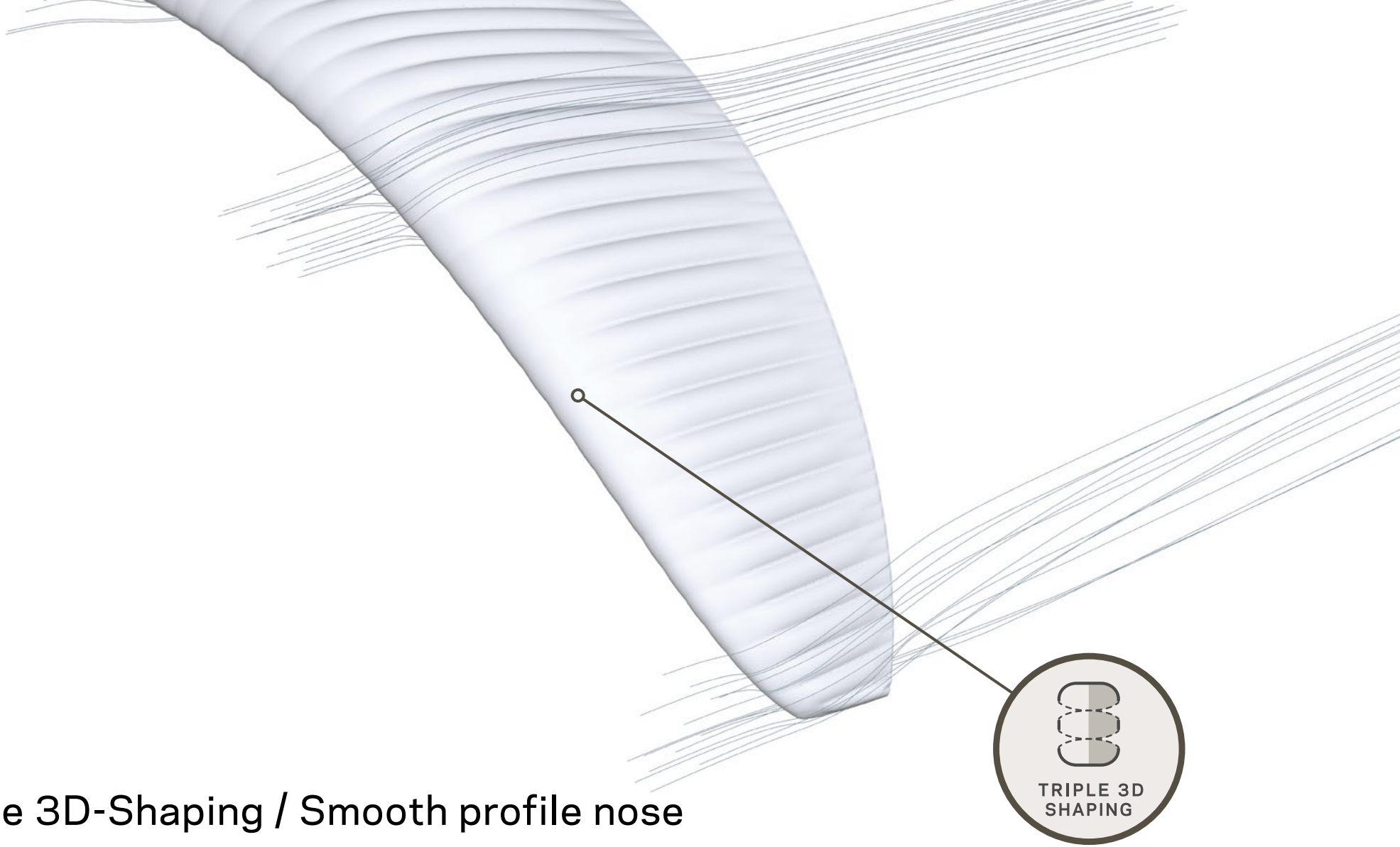


No compromise with the risers

We use 8 mm slim Kevlar webbing for the risers, which twist very little despite their narrow width. Thanks to their great length stability, the clearly arranged risers make a significant contribution to the trim stability. The Height-Adjustable B-Handles (HAB-Handles) can be adjusted to six different heights and thus optimally adapted to pilot size and harness geometry. The individual adjustment of the B-handles enables more effective glider control in accelerated flight. Due to the moveable pulley on the B3 main line, the optimum wing twist is maintained, even when pulling on the B-handles.



Triple 3D-Shaping / Smooth profile nose

Triple 3D-Shaping could be called an anti-wrinkle treatment for the nose of the wing: with three seams across the entire span of the top sail, we reduce the number of creases which are a consequence of the curvature over two axes. Two axes, because the sail cloth has to align to the profile form and the ballooning also determines a radius which the cloth also has to follow. It is as if trying to fold a piece of paper smoothly around a ball. It is impossible without creases. Triple 3D-Shaping divides the sections to be folded into smaller subsections. This allows us to get close to achieving the ideal crease-free form. The result: the creases on the profile nose are clearly reduced and this leads to better performance.

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Quote von Toni Bender

(Toni on Tour)

"To fly this glider I happily drive to Bassano for the day and then back home in the evening. It really is fun to fly. In terms of potential, the wing reminds me a little of the 1995 XENON. The 'old' XENON was by far the most successful competition glider in its day."

Pilot target group

The XENON (EN/LTF D) was designed for experienced XC pilots and hike & fly competitions. It is also perfect for those who are flying a two-liner for the first time. The XENON is as challenging as its aspect ratio of 6.7 would suggest. To meet the requirements for the pilot target group, we recommend experience in the safe control of gliders with an aspect ratio of at least 6.

XENON

FAQ

What are the advantages of a two-liner?
A two-liner has the advantage of less line drag. Even more important is the so-called B-steering, which is particularly relevant to accelerated flight. With it, you can very directly change the angle of attack of the paraglider and thus compensate for turbulence. Ultimately, this enables faster flying through turbulent air than would be possible with a three-liner.

What is B-steering?
B-steering means controlling the wing using the Height-Adjustable B-Handles (HAB Handles). As an alternative to control via the brake lines, pitch and direction control can thus be carried out in accelerated flight without deforming the airfoil in a way that reduces performance.

What is the advantage of the B3 deflector?
For even more performance, the XENON offered a special solution for the riser: pull the B-handle and the outermost B main line shortens only half as much as the two inner ones. Consequently, the B-steering has the same effect as releasing the speed-bar. The wing twist and thus the glide performance remains optimised in both cases.

Memory materials – what are they?
Rods made of Nitinol, a nickel-titanium alloy, can be bent (e.g. when packing up the equipment) but always return to their original shape. As if they could remember… This is why they are called "memory materials".

What is the difference between Nitinol and nylon?
Compared to the nylon rods often used in paraglider construction, the Nitinol rods are characterised by their shape memory and they are also particularly resistant to kinking. Nitinol is also very stable in length and lighter than nylon with the same stiffness. With these advantages, the price for Nitinol is accordingly higher.

How durable is the XENON?
Light, high performance, yet still durable. That is our aim, which we have realised in the construction of the XENON. For this reason we did not pursue lightness at all cost. In parallel we always kept an eye on the durability of the wing. This includes good UV resistance of the cloth. With the XENON we refute the cliché that an competition glider only lasts for one race. It will accompany pilots on long cross-country flights far beyond the competition. Its durability is comparable with our classic lightweight XC wings like the MENTOR Light in our EN B range. In addition, our comprehensive guarantee "NOVA Protect" also applies to the XENON.

How do I pack the XENON?
The best way to pack your XENON is to use the Concertina Bag Light which is included in the delivery. Please check the manual for more information.

_Red

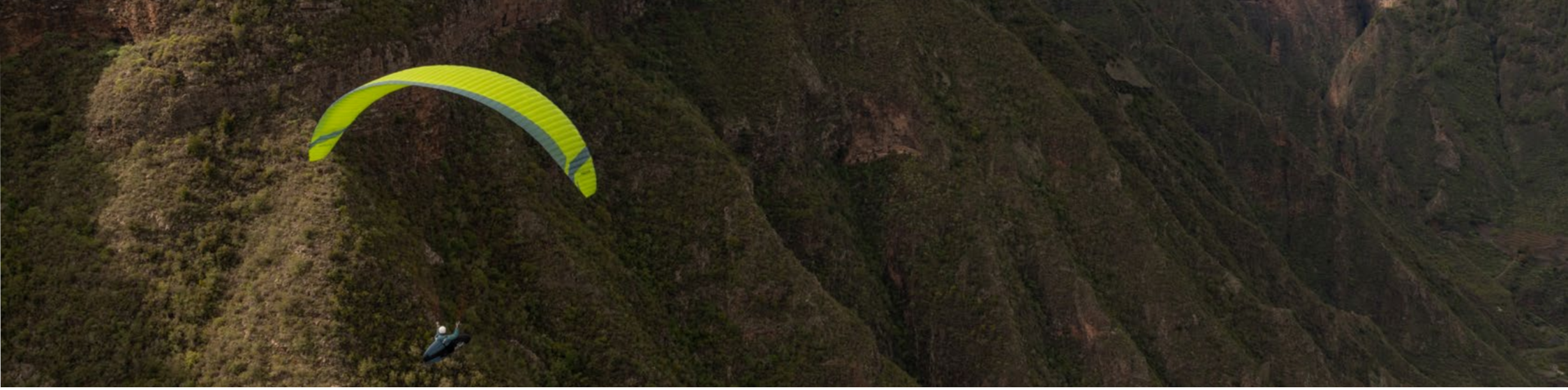
_Tapestry

_Lime

Colours

Materials

Leading edge:	Dominico 20DPS, 33 g/m²
Top surface:	Dominico 10D, 26 g/m²
	Skytex 27 C2 29g/m²
Lower sail:	Dominico 10D, 26 g/m²
Profile ribs: (suspended)	Porcher Skytex 27 Hard, 27g/m²
Profile ribs: (unsuspended)	Porcher Skytex 27 Hard, 27g/m²
Main lines:	PPSL191 / A8000U Series
Gallery lines:	A8000U Series / DC 40 / 9200-035
Brake lines:	7400 / A8000U Series / 9200-035
Risers:	Kevlar 8mm



Technical Data

XENON		17	18	20	22
Number of cells		65	65	65	65
Projected span	m	9.49	9.78	10.32	10.82
Projected area	m^2	17.35	18.42	20.47	22.50
Projected aspect ratio		5.20	5.20	5.20	5.20
Flat span	m	11.65	12.00	12.67	13.26
Flat area	m^2	20.24	21.49	23.88	26.25
Flat aspect ratio		6.70	6.70	6.70	6.70
Line diameter	mm	0.35/0.4/0.5/0.7/1.0/1.2			
Line length	m	7.22	7.44	7.85	8.22
Max. chord	m	2.16	2.23	2.35	2.46
Weight	kg	3.15	3.30	3.60	3.90
Certified take off weight*	kg	65 - 80	75 - 90	80 - 105	95 - 115
Certification (EN & LTF)		D	D	D	D

* Pilot incl. equipment and wing

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Every NOVA paraglider comes with a big package of extra services and guarantees.
When you buy the wing you get more than just the product.

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