



# eternity<sup>LTF/EN A</sup>

**WE PACKED SAFETY LIGHT,  
SO YOUR ADVENTURES  
HAVE NO LIMITS.**







# ETERNITY

## Safety packed light

The ETERNITY is a middle A glider with optimized performance weight. The light wing is offering an enormous safety cushion with a sportive handling. That turns him into a perfect all-round talent for every adventure. Not only beginners will enjoy the ETERNITY - the mistake forgiving behavior will definitely bring sustainable flight fun for ambitious XC pilots and alpinists as well.

The new LTF A class wing was designed under the hard criteria of uncompromising passive safety and still the exact handling should not be cut short. Therefore the ETERNITY offers an easy start for students when first flying high, as well as extended fun moments for experienced pilots. The ETERNITY transforms control pulses precisely and combines A class appropriate tolerance with dynamics. The sweet-tempered flying behavior is encouraged through the light weight of the canopy among other things. The reactions are therefore subdued

accordingly. The markedly outstanding glide- and rise ability is especially coming into effect in weak thermal lift and efficiently turns that into height.

During the development especially much attention was paid to an easy

start behavior. Through a multitude of constructive optimizations these were perfected. Particularly in difficult conditions the ETERNITY simplifies the start to every pilot. The light canopy rises reliably, even at zero wind with little effort required, over the pilot. Additionally the exceptional slow flight features of the wing are causing a low take off speed and much control time during the start.

The ETERNITY is based on the newest knowledge of the flow simulation. Chief designer Ernst Strobl developed a wing profile that combines a high tolerance spectrum with glide features full of buoyancy. Elaborate calculations of the

The ETERNITY offers safety with optimized performance weight. It is not only aimed at beginners, who want to start with small pack size and little weight, but the modern wing also guarantees sustainable fun for ambitious pilots.

High Pressure Crossport Design (DPCD) are not only providing the weight reduction but are also maximizing the transverse aeration of the cross ports. How efficiently this system works, is already manifested while the glider is rising. It provides a very fast pressure build up and gives the wing a balanced internal pressure during the flight. The 3D shaping and the optimized pre-tensioning of the wing as well as the Precision Profile Nose System (PPN) are enabling the perfect flow around the profile. Mini-ribs and the Brake Gathering System (BGS) are helping the profile to more form fidelity at the rear end and precisely transfer the control pulses to the wing. A very overseeable line concept with few main lines is providing an easy handling and a good overview during ground handling. The risers are equipped with the Pilot Assistant (PAS) where besides the color coding, icons are offering a better orientation on the line levels.

In the material mix also only high tech materials which meet the high expectation of the long term endurance were used. So selectively used material strengths of the top materials Dokdo 30 and 20 as well as Skytex 27 offer the optimized performance weight with very high durability and form fidelity. The used light material with double coating is clearly superior in the matter of porosity in comparison to heavy materials. That is now also confirmed by long term results and disproves the myth according to which heavier materials achieve better check results.

The ETERNITY offers safety with optimized performance weight. It is not only aimed at beginners, who want to start with small pack size and little weight, but the modern wing also guarantees sustainable fun for ambitious pilots. The size XL additionally has the tandem certification and therefore offers a light alternative for the double flight fun with matchless direct handling.

The ETERNITY is available in 3 attractive color combinations and in six LTF A certified sizes from XS (60-80 kgs) up to XL (120-150 kg / with tandem certification). The allround talent offers much safety with little weight. Let yourself get inspired by the safe lightness!

For more information visit [www.u-turn.de](http://www.u-turn.de)

# ETERNITY



## LTF/EN-A ALLROUNDER / LIGHTWEIGHT

XS 23 / S 25,5 / SM 28,5 / M 30 / L 31,5 / XL 35

	XS	S	SM	M	L	XL
<b>Recommended Start weight ****</b> Empfohlenes Startgewicht ****	60-70 kg	60-85 kg	80-95 kg	85-105 kg	100-120 kg	120-140 kg
<b>Extended Start weight ***</b> Erweitertes Startgewicht ***	60-80 kg	60-95 kg	80-110 kg	85-115 kg	100-130 kg	120-150 kg
<b>Flat area</b> Fläche ausgelegt	23 m <sup>2</sup>	25,5 m <sup>2</sup>	28,5 m <sup>2</sup>	30 m <sup>2</sup>	31,5 m <sup>2</sup>	35 m <sup>2</sup>
<b>Projected area</b> Fläche projiziert	19,119 m <sup>2</sup>	21,197 m <sup>2</sup>	23,691 m <sup>2</sup>	24,938 m <sup>2</sup>	26,184 m <sup>2</sup>	29,51 m <sup>2</sup>
<b>Flat wingspan</b> Spannweite ausgelegt	10,724 m	11,292 m	11,937 m	12,247 m	12,55 m	13,323 m
<b>Projected wingspan</b> Spannweite projiziert	8,273 m	8,711 m	9,209 m	9,449 m	9,682 m	10,278 m
<b>Flat AR</b> Streckung ausgelegt	5	5	5	5	5	5
<b>Projected AR</b> Streckung projiziert	3,58	3,58	3,58	3,58	3,58	3,58
<b>Chord: center / wingtip</b> Flügeltefe: Mitte / Stabulo	2,550 m / 0,721 m	2,686 m / 0,769 m	2,849 m / 0,805 m	2,913 m / 0,823 m	3,008 m / 0,850 m	3,186 m / 0,901 m
<b>V-trim</b> V-Trim	~ 37-39 km/h	~ 37-39 km/h	~ 37-39 km/h	~ 37-39 km/h	~ 37-39 km/h	~ 37-39 km/h
<b>V-max</b> V-Max.	52 + km/h	52 + km/h	52 + km/h	52 + km/h	52 + km/h	52 + km/h
<b>Bridle height</b> Abstand Trägegurt-Kappe	6,649 m	7,001 m	7,401 m	7,593 m	7,781 m	8,26 m
<b>Nr. of cells</b> Zellenanzahl	36	36	36	36	36	36
<b>Glider weight</b> Gewicht	3,45 kg	3,75kg	3,95 kg	4,25kg	4,55 kg	4,85 kg
<b>Bridle length</b> Gesamt Leinenlänge	243 m	256m	269m	279 m	286 m	304 m
<b>Line diameter</b> Leinendurchmesser	0,95 / 1,2 / 1,65 1,8 / 2,0 mm	0,95 / 1,2 / 1,65 1,8 / 2,0 mm	0,95 / 1,2 / 1,65 1,8 / 2,0 mm	0,95 / 1,2 / 1,65 1,8 / 2,0 mm	0,95 / 1,2 / 1,65 1,8 / 2,0 mm	0,95 / 1,2 / 1,65 1,8 / 2,0 mm
<b>Speed system / trimmer</b> Fuß Beschleuniger / Trimmer	Yes / No Ja / Nein	Yes / No Ja / Nein	Yes / No Ja / Nein	Yes / No Ja / Nein	Yes / No Ja / Nein	Yes / No Ja / Nein
<b>Certification</b> Zulassung	EN-A/LTF-A	EN-A/LTF-A	EN-A/LTF-A	EN-A/LTF-A	EN-A/LTF-A	EN-A/LTF-A
<b>Certified standards and procedures</b> Angewandte Testverfahren	LTF 91/09 & EN 926-1:2006, 926-2:2013	LTF 91/09 & EN 926-1:2006, 926-2:2013	LTF 91/09 & EN 926-1:2006, 926-2:2013	LTF 91/09 & EN 926-1:2006, 926-2:2013	LTF 91/09 & EN 926-1:2006, 926-2:2013	LTF 91/09 & EN 926-1:2006, 926-2:2013
<b>Folding lines used for certification</b> Faltleinen für Testflüge benutzt	No Nein	No Nein	No Nein	No Nein	No Nein	No Nein
<b>Certification No.</b> Zulassungsnummer	EAPR-GS-0458/15	EAPR-GS-0456/15	EAPR-GS-0455/15	EAPR-GS-0457/15	EAPR-GS-0453/15	EAPR-GS-0454/15



SKYTEX 27  
DOKDO 20  
DOKDO 30



COLOR 01



COLOR 02



COLOR 03

Errors and omissions expected. Subject to change without notice. Reproduction in whole or in part without written permission of U-Turn GmbH is prohibited.

Irrtümer, Druckfehler und Änderungen bleiben vorbehalten. Nachdruck auch auszugsweise, nur mit schriftlicher Genehmigung der U-Turn GmbH.

\*\*\*\* Recommended Start weight \*\*\* Extended Start weight 1. pilot, glider, equipment

\*\*\*\* Empfohlener Gewichtsbereich<sup>1</sup> für die Schulung \*\*\* Erweiterter Gewichtsbereich<sup>1</sup> mit LTF/EN-A Zulassung 1. Pilot, Schirm, Ausrüstung