Original
Composites &
Fiberglass

ULTRASPAR® 2

Next-level spar caps

Ultraspar® 2 combines the higher performance of WindStrand® 4000 with the consistency of the pultrusion process, allowing efficient, cost-effective blade design and production. High-performance glass-pultruded profiles enable lighter, longer, stronger blades that reduce the cost of wind energy.

- Produced with H² Glass, the second-generation high-modulus glass specifically designed for wind blades.
- Ultraspar® 2 is pultruded with epoxy resin and is compatible with infusion in epoxy resin systems. Contact us regarding compatibility with other resin systems.

FOR LONGER BLADES PRODUCED EFFICIENTLY

Product Benefits

Proven Performance

- 63 GPa laminate 0° tensile modulus (at 70% FVF — Fiber Volume Fraction) – true performance to enable longer, lighter blades.
- Balances increased FVF to maintain strong fatigue performance.

Consistency And Productivity

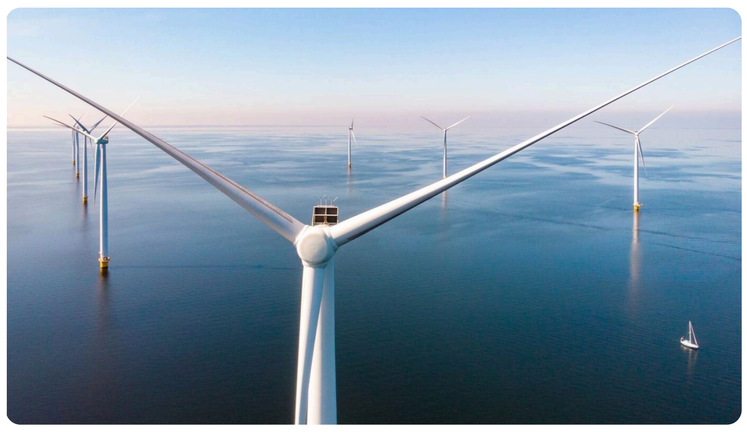
- Pultrusion delivers consistent glass content for reliable performance and eliminates on-site spar cap infusion for improved productivity.
- Low porosity enables mechanical stability and quality consistency.
- Double-sided PA66 peel ply cover with easy peel-off, enabling an ideal contact surface for excellent bonding properties.

Reliable Supply

- H² Glass is continuously produced at scale and increasing capacity, delivering reliable product supply and consistency.

Application

Ultraspar® 2 is a high-performance pultruded profile custom-designed for wind blade spar caps. Ultraspar® 2 enables blade designers to optimize the weight and maximize the length and strength of wind blades.



ULTRASPAR® 2 | PULTRUDED PLANKS | JULY 2026

Properties

CHARACTERISTIC*	TEST METHOD	STRENGTH MEAN (MPa)	MODULUS MEAN (GPa)
0° Tensile**	ISO 527-5A	1,350	63
0° Compression**	ISO 527-5B	1,250	63
90° Tensile	ISO 527-5	50	14
90° Compression	ISO 14126	140	14
V-Notched Rail Shear	ASTM D7078	55	4
Fatigue (Tension-Tension)	ISO 13003	M value = 8.5	

* Typical FVF at 70%.
** The sample piece is milled into a 2 mm thick rectangular coupon for testing.
DATA SOURCE – Above typical data from third-party laboratory testing.

Availability & Packaging

This product is currently available in China. Please contact your representative for information in your region.

Ultraspar® 2 is a custom-designed product requiring the profile dimensions of the specific design for a blade. Adequate time is needed for die preparation to properly produce the product.

Ultraspar® 2 has coiled inner diameters of at least 1,500 mm and outer diameters up to 2,300 mm.

Storage

Glass fiber products should be stored in a dry area and remain in their original packaging until use. Products should be protected from the weather and other sources of water.

MAKE MORE POSSIBLE™

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