

///D19 WAVE / FREESTYLE SAILS_



DESIGN IDEOLOGY

A sail is only as good as the material it's made of.

Our panelled sails use the absolute best materials in the industry.

Each material we use is custom designed for each specific section of the sail: lighter materials for the top of the sail to reduce swing weight, stronger materials for the high-impact foot section.

Unlike us, many sail manufacturers will use the same materials in the foot as in the head of the sail. If it is strong enough for the foot it is too heavy for the head, if it is light enough for the head it is not strong enough for the foot. So their uniform materials approach results in either heavy sails, or weak sails. Our materials technology makes lighter, stronger sails. Which one do you want?

And if you want to take it even further than that, our HyperSpider membrane sails take things to the next level; load-bearing fibres are placed EXACTLY where they are required in each sail. Fibre density is varied depending on the loads at every point across the sail – more fibre at the luff to transfer downhaul tension, fibre radiating out of the clew to disperse outhaul, plus every perimeter, batten and transverse load has a specific fibre path. The result is pro-level performance and incredible weight savings.



SAILS FOR THE REVOLUTION





PREMIUM PANELLED TECHNOLOGY
QUALITY / VALUE / PERFORMANCE

Our Premium Panelled sails combine our high-tech custom materials with traditional sailmaking cut and sew techniques to deliver acknowledged performance across a range of price points.

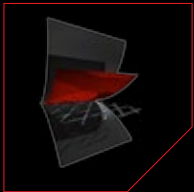


IMPACT ZONE
Heavy duty materials are kept lower in the sail, the area traditionally prone to damage from knees and harness hooks. Twisted fibres and stronger yarns are combined with thicker films for maximum durability. This extra weight is kept low in the sail so it does not affect the swing weight and lightweight feel of the sail.

HEX-PLY

HEAVY DUTY
Thicker 5mil film for improved puncture resistance, HEX-PLY uses internal printing to add the colour and graphics. This ensures long term durability. Used in high impact areas of selected sails.

/ X-PLY: DYNEEMA
/ GSM: 220GSM



HIGH LOAD LAMINATE
Based on the proven eM3 platform, the high load eM4 material features twice the amount of X-Ply fibre and increased film thickness to maximise durability. This new material allows weight reduction whilst maintaining puncture resistance and tear strength. Used in the lower impact zone in the sail.

/ SCRIM: POLYESTER
/ X-PLY: POLYESTER x 2
/ GSM: 190GSM

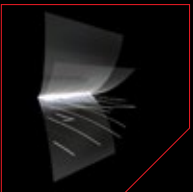


POWER ZONE
The mid section of the sail generates the sail's power and defines the vision through the window. Specific X-Ply materials are used to maximize visibility in our 100% X-Ply sails. Stronger fibres and our Twisted Fibre technology means that less fibres are required and allows for a wider spacing to give better vision.

T858

DYNEEMA WINDOW X-PLY
Wide spaced X-Ply with white colored fibres maximises vision. T858 uses flat ribbons of Dyneema to keep the film as flat as possible so that vision is not distorted. Used in the window areas of selected sails.

/ X-PLY: DYNEEMA
/ GSM: 175GSM

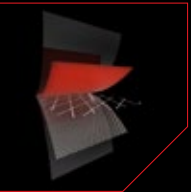


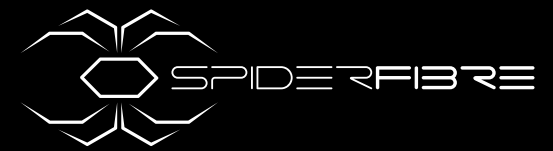
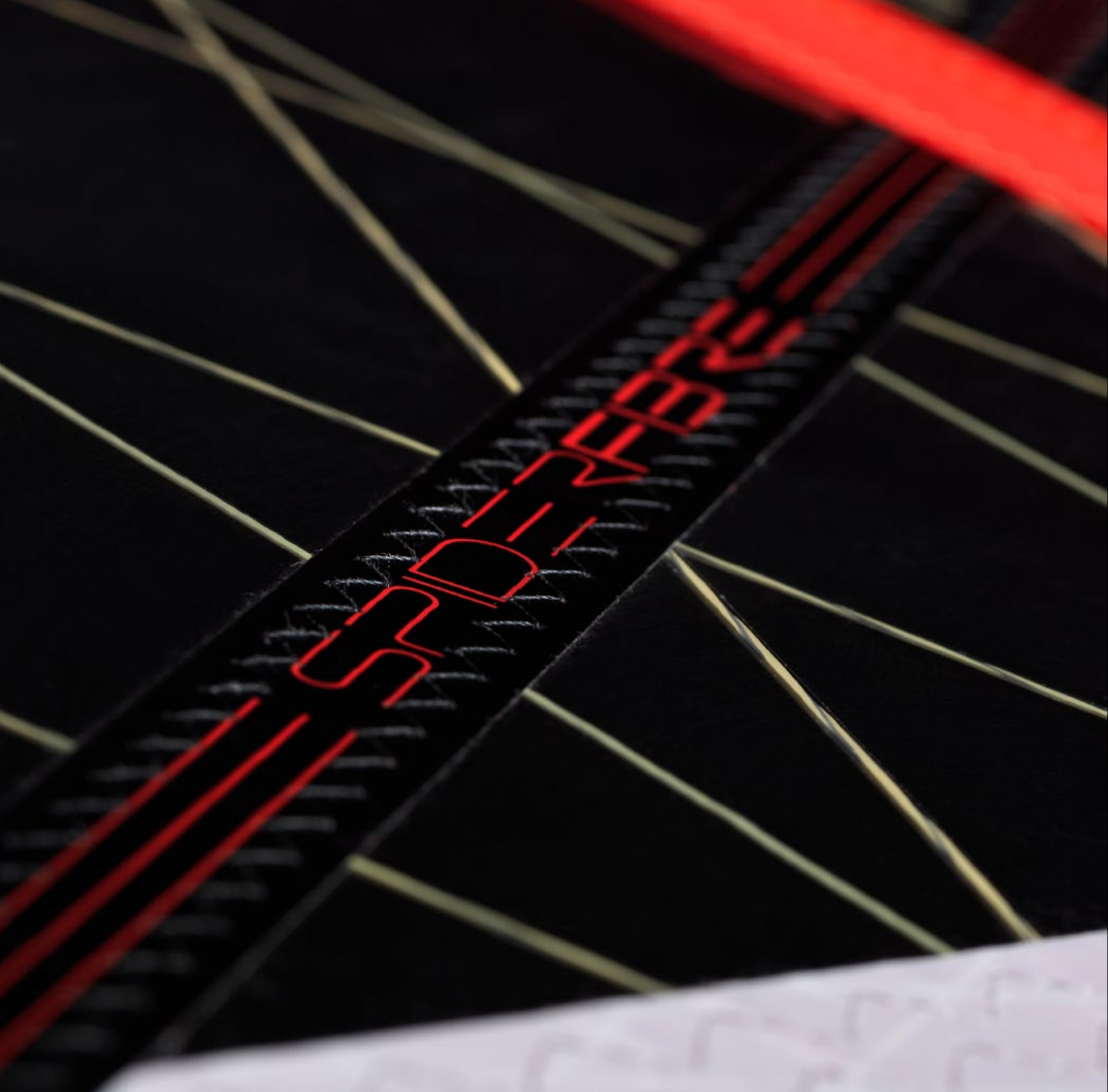
CONTROL ZONE
The upper section of the sail defines the control characteristics of the sail. To maximise the handling, we use the lightest materials in the main body, reducing both weight and swing weight.



DURABLE AND LIGHTWEIGHT
Combining the performance of the e-series materials with maximum durability. The addition of a pre-preg polyester scrim has provided unique tear resistant characteristics. Off-axis loads are carried through the 22-degree X-ply fibres. The red and new blue adhesive maintain the UV resistance and tear strength, while the reduced film thickness significantly reduces the weight. The use in the upper panels reduces not only the overall sail weight, but also the swing weight, aiding manoeuvrability and control.

/ SCRIM: POLYESTER
/ X-PLY: POLYESTER
/ GSM: 160.6GSM

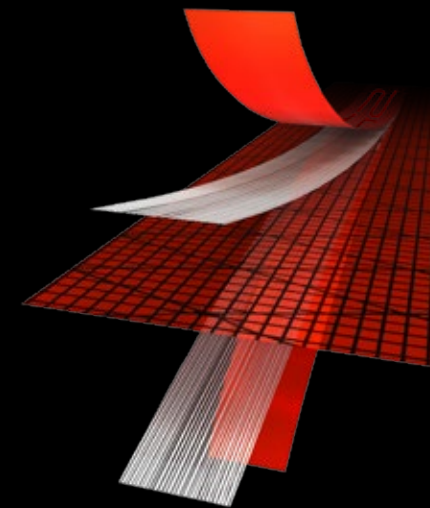




SpiderFibre is a fibreglass filament with very high tensile strength. Used to minimize weight and maximise strength.

Traditional sail-making utilizes small corner patches that diffuse the load approx 30cm, often ending before or even at a seam creating a weak spot.

We use a web of SpiderFibre that transfers the load out of the clew and across any seams to diffuse throughout the body of the sail. By using stronger, lighter fibres these radials measurably reduce weight and increase strength. Swing weight is also reduced as the clew patch weight has been replaced with lightweight vectors that extend the full width of the sail. The result: Lighter, Stronger sails.



In our quest to create a truly symmetrical sail we have developed the AERO BATTEN POCKET. Rather than add the batten pocket on one side of the sail, the panels of the sail are overlapped to create a channel for the batten. The tensioner is then loaded from both sides of the sail creating even tension across both sides of the foil.

The result is improved sail symmetry and reduced weight.



PRO LEVEL PERFORMANCE

HyperSpider is our full-color, load path membrane technology. This is the next level in reducing weight and increasing strength. Customised fibre layouts are engineered for each individual sail, and mapped to exactly follow every load trajectory. These are our most technically advanced sails yet.

An evolution of our SpiderFibre technology where we took sailcloth and added vectors of fibre to transfer load directly along the load-lines, HyperSpider does away with the sailcloth and just puts fibre down along EVERY load path. Every fibre is precisely laid to carry a specific load. All the loads and tensions in the sail are now carried by the fibre instead of the film. This makes it possible to use thinner films, which creates a much lighter, more flexible sail.

In a traditional sail, reinforcement is added as patches that are sewn on top of the panels. In a HyperSpider sail all the reinforcement is already built in, again reducing weight and increasing strength. The end result is a much lighter, stronger sail with an incredible feel.

Aligning the fibre exactly along the load paths means that stretch is able to be controlled to a level that was never possible in a panelled sail. What this means to the rider is a much bigger sweet spot: not only is the wind-range extended at both the top end AND bottom end, but the range of wind strengths where the sail feels perfect is much bigger.

The flexibility of the ultra-light membrane means that whilst the flying shape of the sail doesn't deform under load, the sail still retains a very soft, smooth feel. Feels like luxury.

HYPERSPIDER 4.0

The fourth generation of HYPERSPIDER technology consists entirely of high-tech fibres: 1100dTex Technora for the body fibre, and now 1680dTex Dyneema® for the X-Ply to further increase strength.

Dyneema® is an ideal fibre for windsurf sails: it is UV resistant, has very high initial modulus numbers (second only to high modulus Carbon fibre), superior breaking strength, and high flex strength. The larger denier fibres enhance its rip-stop capabilities.

Technora is 8 times stronger than steel, and has excellent fatigue resistance. Its low creep characteristics make it ideal to carry the main loads in the membrane.

HyperSpider is the pinnacle of windsurf sail materials.



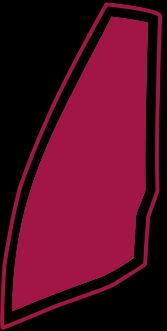
HYPERSPIDER: THE WEB

In a traditional X-ply sail, very few of the fibres are aligned with the load of the sail, this means the film takes the load, this means the film has to be thicker and heavier.

In a HYPERSPIDER sail each membrane is custom built for each sail size and model. Every fibre is aligned along its exact load paths, this means film thickness can be reduced making a lighter sail.



PRIMARY LOAD PATH
Vectors of Technora aligned along the main load lines from the tack to the head, These disperse the high downhaul loads vertically throughout the membrane.



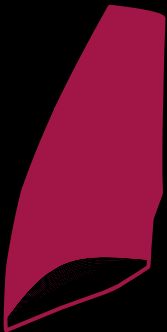
PERIMETER LOAD PATH
Technora fibre is laid down along the perimeter of the sail to control stretch and reinforce all edges.



SECONDARY LOAD PATH
Technora fibres radiate the outhaul loads out of the clew. These secondary fibres intersect the primary fibres to create the first layer of the web



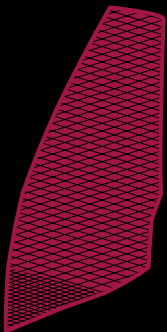
HORIZONTAL LOAD BANDS
Technora fibre is aligned exactly along the batten tension lines. This aids batten stretch control.



TERTIARY LOAD PATH
A third group of Technora fibres increases density in the high load foot area. These paths further diffuse the loads coming out of the clew and the tack.



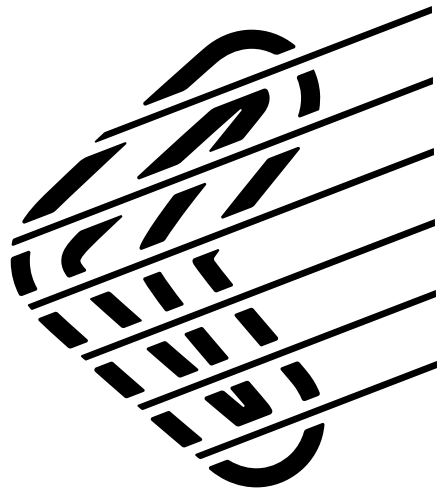
DIAGONAL LOAD BANDS
Short strips of fibre radiate out from the batten ends to control sheer and twist.



X-PLY LAYER
An Aramid X-Ply is laid down to complete the web. These fibres increase durability of the membrane.
3.0 - Increased X-Ply density in high load foot panel.



THE WEB
The combination of all these vector paths creates the web: A mesh of fibres transferring and diffusing loads throughout the membrane.



G44 PHILIP KÖSTER
BLADE PRO
PREMIUM CONTROL



SAKIS FOR THE REVOLUTION

PHILIP KÖSTER
MARGARET RIVER, WA

BLADE PRO

PHOTO: JAMIE SCOTT



BLADE PRO_ PREMIUM CONTROL

When only the best will do, there's nothing quite like the Blade Pro.

With it's performance pedigree proven by Philip Koster's multiple World titles, the BladePro is more than capable of delivering the ride of your life. Butter-smooth handling and the stability to extend both ends of the wind-range mean you enjoy every minute of your time on the water.

This year's edition has been tweaked and tuned based on Koster's feedback, and is now Cyclops-ready to get you on the water faster. Increased luff curve adds skin tension to hold the profile forward and low to maximise wind range. The control-oriented geometry sets the rake angles to maintain downforce at the mast base whilst setting the clew below shoulder height where it can be most easily managed. Stance is balanced with the upper shaping moved forward to put less pressure on the back leg and reduce fin load.

The HyperSpider membrane consists entirely of high-tech fibres: Technora for the body fibre, and now Dyneema for the X-Ply to increase strength. The pinnacle of windsurf sail materials.



UPGRADES FOR 2019

- / 4th GENERATION DYNEEMA HYPERSPIDER. IMPROVED DURABILITY.
- / INCREASED SKIN TENSION
- / CYCLOPS-READY

KEY FEATURES

- / HYPERSPIDER 4.0
- / SPIDERFIBRE
- / AERO BATTEN POCKETS

COMPARED TO

/ S-I PRO
The BLADE PRO has 5 battens.
The BLADE PRO drives power down through the board for maximum control.

/ BLADE
The BLADE PRO features HyperSpider.
The BLADE PRO is lighter.

RECOMMENDED

- / BOARD
MAKO
NANO
- / MAST
RDM RED - For ultimate performance.
RDM BLUE - High end performance with increased reliability.
BLADE PRO is recommended for RDM masts.
- / BOOM
ENIGMA - For ultimate performance.
- / EXTENSION
CYCLOPS

SIZE	LUFF	BOOM	BATTENS	WEIGHT	HEAD	RECOMMENDED MAST	COMPATIBLE MAST
4.2	TBA	TBA	5	TBA	FIXED	SEVERNE 370 WAVE	-
4.7	TBA	TBA	5	TBA	FIXED	SEVERNE 400 WAVE	-
5.0	TBA	TBA	5	TBA	FIXED	SEVERNE 400 WAVE	-
5.3	TBA	TBA	5	TBA	FIXED	SEVERNE 400 WAVE	-
5.7	TBA	TBA	5	TBA	FIXED	SEVERNE 430 WAVE	-
6.2	TBA	TBA	5	TBA	FIXED	SEVERNE 430 WAVE	SEVERNE 460 WAVE



NOT FOR SALE IN THE US





KAI20 **JAEGER STONE**
S-1 PRO
PREMIUM MANOEUVRABILITY





JAEGER STONE
MARGARET RIVER, VA

S-1 PRO

PHOTO: JAMIE SCOTT



S-1 PRO_ PREMIUM CONTROL

Developed to power Jaeger Stone's signature wave attack, the S-1 Pro is the ultimate tool for absolute wave destruction.

Design focus was on further increasing jumping control without sacrificing wave riding ability. Profile depth is now lower in the sail for control, whilst mid leech tension was increased to maintain torque for driving vertically towards the lip. Overall luff curve has been added to increase skin tension and improve wind range.

Four batten layout in all sizes means maximum manoeuvrability. And now with a Cyclops compatible tack pulley to get you on the water fast.

The HyperSpider membrane consists entirely of high-tech fibres: Technora for the body fibre, and now Dyneema for the X-Ply to increase strength. The pinnacle of windsurf sail materials.



UPGRADES FOR 2019

- / 4th GENERATION DYNEEMA HYPERSPIDER. IMPROVED DURABILITY.
- / REFINED PERFORMANCE
- / CYCLOPS-READY

KEY FEATURES

- / HYPERSPIDER 4.0
- / ULTRALIGHT WEIGHT
- / HIGHLY MANOEUVRABLE
- / INCREASED WIND RANGE
- / AERO BATTEN POCKETS

COMPARED TO

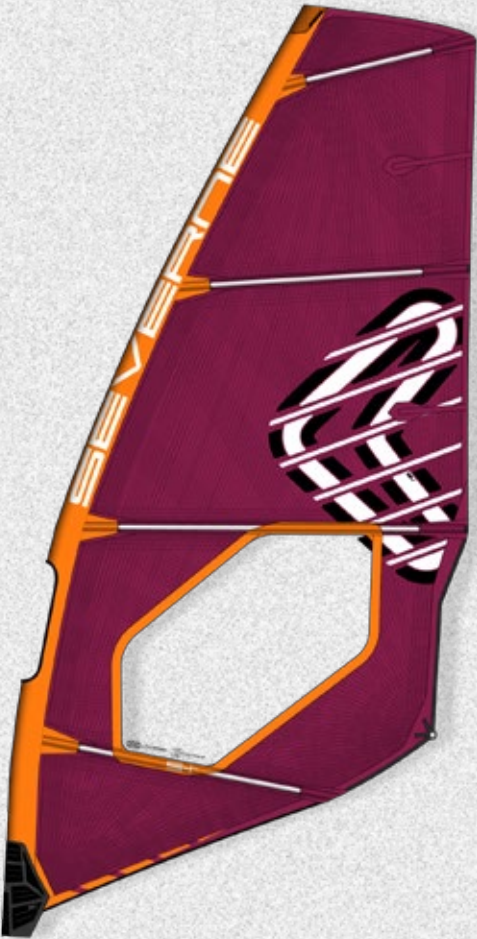
- / S-1
The S-1 PRO features HyperSpider.
The S-1 PRO is lighter.
The S-1 PRO has a wider wind range.
The S-1 PRO has increased control.

- / BLADE PRO
The S-1 PRO has 4 battens.
The S-1 PRO is lighter.
The S-1 PRO has more backhand pressure.

RECOMMENDED

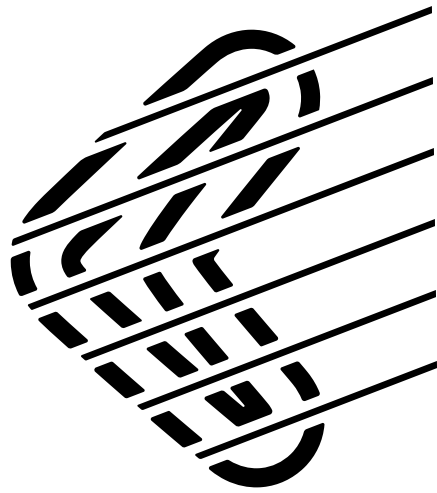
- / BOARD
MAKO.
NANO.
- / MAST
RDM RED - For ultimate performance.
RDM BLUE - High end performance with increased reliability.
S-1 PRO is compatible only with RDM masts.
- / BOOM
ENIGMA - For ultimate performance.
- / EXTENSION
CYCLOPS

SIZE	LUFF	BOOM	BATTENS	WEIGHT	HEAD	RECOMMENDED MAST	COMPATIBLE MAST
3.6	TBA	TBA	4	TBA	FIXED	SEVERNE 340 WAVE	SEVERNE 370 WAVE
4.0	TBA	TBA	4	TBA	FIXED	SEVERNE 370 WAVE	SEVERNE 340 WAVE
4.4	TBA	TBA	4	TBA	FIXED	SEVERNE 370 WAVE	
4.8	TBA	TBA	4	TBA	FIXED	SEVERNE 400 WAVE	SEVERNE 370 WAVE
5.2	TBA	TBA	4	TBA	FIXED	SEVERNE 400 WAVE	
5.6	TBA	TBA	4	TBA	FIXED	SEVERNE 400 WAVE	SEVERNE 430 WAVE



NOT FOR SALE IN THE USA








KAIBI

SCOTT MCKERCHER

BLADE

CONTROL ORIENTED WAVE





SAKES FOR THE REVOLUTION

SCOTT MCKERCHER
MARGARET RIVER, VA

BLADE

PHOTO: JAMIE SCOTT



BLADE_ CONTROL ORIENTED WAVE

The 019 Blade is a 5 batten wave sail with the perfect blend of power and control. For riders demanding dependable performance across a wide wind range you simply can't beat the stability and control that 5 battens provide. Based on this fundamental we built the Blade to be the ultimate all-rounder wave sail.

Increased luff curve adds skin tension to hold the profile forward and low to maximise wind range. A Dacron luff panel allows elastic expansion under load, furthering the draft-forward bias when conditions get extreme. The control oriented geometry sets the rake angles to maintain downforce at the mast base whilst setting the clew below shoulder height where it can be most easily managed. Stance is balanced with the upper shaping moved forward to put less pressure on the back leg and reduce fin load.

Constructed entirely out of premium X-Ply, the Blade is one of the most durable sails on the market, yet intelligent design means it's also one of the lightest. SpiderFibre technology has radically reduced swing weight whilst also creating a much stronger clew. Dyneema window X-Ply allows for unrestricted vision. Upper panels in eM3 reduce swing weight. The new highly durable yet lightweight eM4 material is used in the high load foot area. Double width seams lock every panel in place. Engineered for performance.

The 019 Blade is the sail to choose for all-round high performance.

UPGRADES FOR 2019
/ INCREASED STABILITY AND CONTROL
/ CYCLOPS-READY

KEY FEATURES
/ 100% XPLY
/ DOUBLE SEAMS EVERYWHERE.
/ BENCHMARK WAVESAIL

COMPARED TO
/ **BLADE PRO**
The BLADE is less expensive than BLADE PRO.

/ **S-1 PRO**
The BLADE has 5 battens.
The BLADE drives power down through the board for maximum control.

/ **S-1**
The BLADE has a wider wind range.
The BLADE is more control oriented.

RECOMMENDED
/ **BOARD**
MAKO
NANO
DYNO

/ **MAST**
RDM RED - For ultimate performance.
RDM BLUE - High end performance with increased reliability.
GORILLA - For durability with an unconditional 2 year limited warranty.
BLADE is recommended for RDM masts.

/ **BOOM**
ENIGMA - For ultimate performance.
METAL - For high end performance.

/ **EXTENSION**
CYCLOPS

SIZE	LUFF	BOOM	BATTENS	WEIGHT	HEAD	RECOMMENDED MAST	COMPATIBLE MAST
3.0	TBA	TBA	5	TBA	ADJ.	SEVERNE 340 WAVE	SEVERNE 370 WAVE
3.3	TBA	TBA	5	TBA	ADJ.	SEVERNE 340 WAVE	SEVERNE 370 WAVE
3.5	TBA	TBA	5	TBA	ADJ.	SEVERNE 340 WAVE	SEVERNE 370 WAVE
3.7	TBA	TBA	5	TBA	ADJ.	SEVERNE 370 WAVE	SEVERNE 400 WAVE
4.0	TBA	TBA	5	TBA	ADJ.	SEVERNE 370 WAVE	SEVERNE 400 WAVE
4.2	TBA	TBA	5	TBA	ADJ.	SEVERNE 370 WAVE	SEVERNE 400 WAVE
4.5	TBA	TBA	5	TBA	FIXED	SEVERNE 370 WAVE	
4.7	TBA	TBA	5	TBA	FIXED	SEVERNE 400 WAVE	
5.0	TBA	TBA	5	TBA	FIXED	SEVERNE 400 WAVE	
5.3	TBA	TBA	5	TBA	FIXED	SEVERNE 400 WAVE	
5.5	TBA	TBA	5	TBA	FIXED	SEVERNE 400 WAVE	SEVERNE 430 WAVE
5.7	TBA	TBA	5	TBA	FIXED	SEVERNE 430 WAVE	SEVERNE 400 WAVE
6.2	TBA	TBA	5	TBA	FIXED	SEVERNE 430 WAVE	SEVERNE 460 WAVE
6.7	TBA	TBA	5	TBA	FIXED	SEVERNE 460 WAVE	



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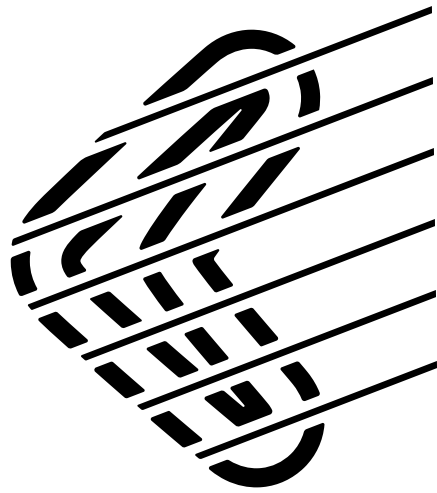


CC2



CC3





G103

MORITZ MAUCH

S-1

MANOEUVRE ORIENTED WAVE

M

M

M

M

3

4

SAKIS FOR THE REVOLUTION



MORITZ MAUCH

S-1

PHOTO: SAMUEL TOME

019

S-I

MANOEUVRE ORIENTED WAVE

The S-1 is a high performance 4 batten wave sail. A reduced batten count makes this sail light, flexible and responsive. Less structural rigidity gives the rig a bigger sweet-spot, and allows the sail to auto-correct during wave-riding by giving the draft just enough movement to ensure constant power delivery.

Developed on an identical platform as the S-1 Pro, this year's S-1 replicates the dynamic performance in a more accessible construction. With it's 3 or 4 batten interchangeability the S-1 is an extremely versatile wave sail. The convertible batten system means the S-1 can be run as either a 3 or a 4 batten sail depending on conditions and preference. The S-1's very broad range of appeal is matched only by its wind range. Shaping is located extremely low and forward in the sail, and with a 4th batten added becomes extremely stable. The dropped clew allows short boom lengths for manoeuvrability and boom rigidity.

Built in quality eM3 materials, SpiderFibre, and with a diamond shaped Dacron luff panel for smooth power delivery, this sail is engineered for performance. Now with eM4 in the lower panels to make the 019 S-1 stronger and lighter.

The S-1 is a manoeuvre oriented wave sail for the modern wave sailor.

UPGRADES FOR 2019

- / NEW BATTEN LAYOUT
- / INCREASED SKIN TENSION
- / CYCLOPS-READY

KEY FEATURES

- / CONVERTABLE BATTEN DESIGN
- / MANOEUVRE ORIENTED WAVESAIL
- / TUNABLE

COMPARED TO

- / S-I PRO
The S-I is less expensive.
The S-I has 3 or 4 battens.

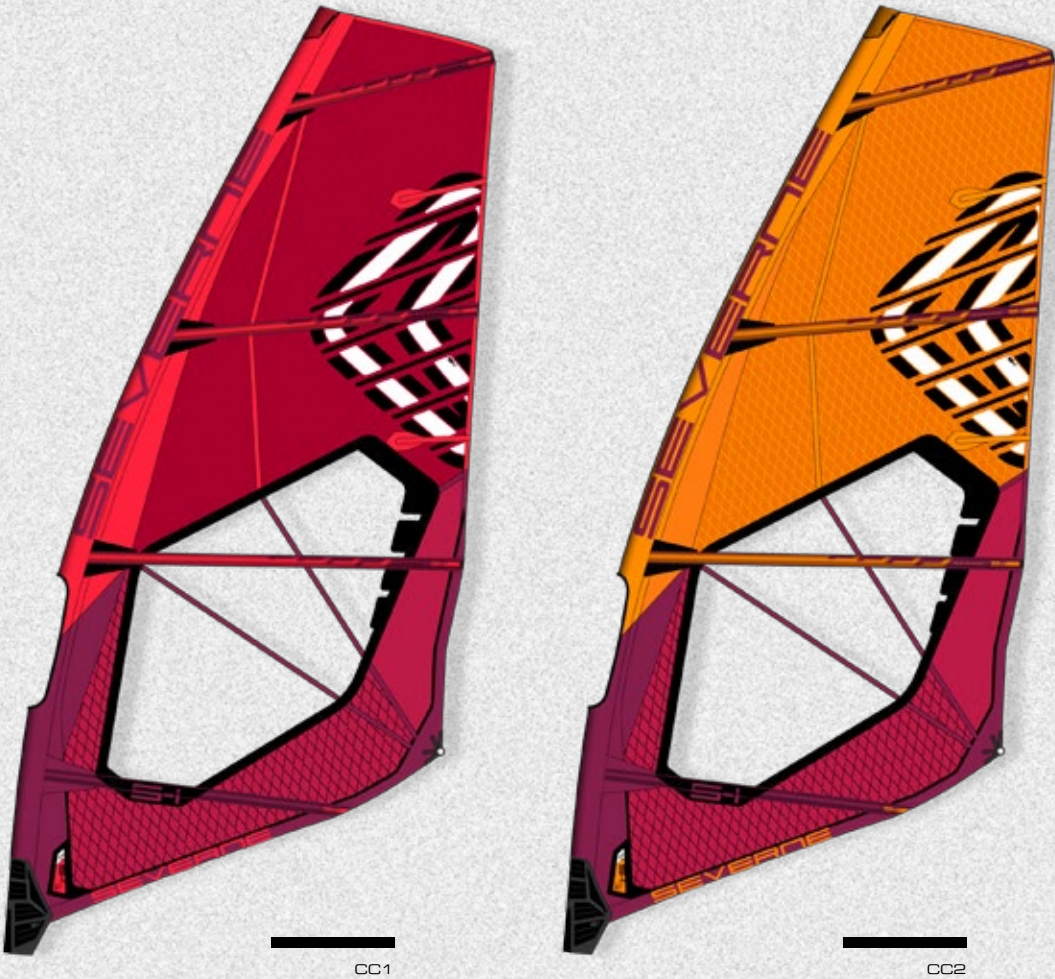
- / BLADE
The S-I has 3 or 4 battens.
The S-I is more manoeuvre oriented.
The S-I has more backhand pressure.

- / BLADE PRO
The S-I has 3 or 4 battens.
The S-I is more manoeuvre oriented.
The S-I has more backhand pressure.

RECOMMENDED

- / BOARD
MAKO.
NANO.
- / MAST
RDM RED - For ultimate performance.
RDM BLUE - High end performance with increased reliability.
GORILLA - For durability with an unconditional 2 year limited warranty.
S-1 is compatible only with RDM masts.
- / BOOM
ENIGMA - For ultimate performance.
METAL - For high end performance.
- / EXTENSION
CYCLOPS

SIZE	LUFF	BOOM	BATTENS	WEIGHT	HEAD	RECOMMENDED MAST	COMPATIBLE MAST
3.3	TBA	TBA	4	TBA	FIXED	SEVERNE 340 WAVE	-
3.6	TBA	TBA	4	TBA	ADJ.	SEVERNE 340 WAVE	SEVERNE 370 WAVE
4.0	TBA	TBA	4	TBA	FIXED	SEVERNE 370 WAVE	SEVERNE 340 WAVE
4.4	TBA	TBA	4	TBA	FIXED	SEVERNE 370 WAVE	-
4.8	TBA	TBA	4	TBA	FIXED	SEVERNE 400 WAVE	SEVERNE 370 WAVE
5.2	TBA	TBA	4	TBA	FIXED	SEVERNE 400 WAVE	-
5.6	TBA	TBA	4	TBA	FIXED	SEVERNE 400 WAVE	SEVERNE 430 WAVE









NE20

AMADO VRIESWIJK

FREEK

FREESTYLE





SAKIS FOR THE REVOLUTION

AMADO VRIESWIJK

FREEK

PHOTO: SAMUEL TOME



FREEK_

FREESTYLE

Dedicated freestyle performance. The Freek is designed to give maximum lift, stability and easy ducking. Higher aspect ratios improve lift. The 5 batten layout means more stability and wind-range, and by utilising our high-tech materials technology actually weighs less than most 4-batten sails.

A dynamic relationship between luff curve and seam shaping enables the Freek to inflate further and faster for increased power and explosive pop, whilst still going neutral for reliable duckability. The higher skin tension adds stability and extends the wind range.

Dedicated freestylers will rig the Freek with less downhaul with a tighter head for maximum lift, freestyle wave riders may use more downhaul for more control in a wider range of conditions. The 019 Freek gives maximum freestyle performance.

UPGRADES FOR 2019

- / STRONGER BATTENS IN HEAD
- / CYCLOPS-READY

KEY FEATURES

- / STABLE
- / BALANCED
- / EASY DUCKING
- / SOFT ROTATION
- / TUNABLE
- / AERO BATTEN POCKETS

COMPARED TO

/ **BLADE**
The FREEK is lighter.
The FREEK is better suited for freestyle and freestyle wave.

/ **S-I PRO**
The FREEK is better suited for freestyle and freestyle wave.
The FREEK has 5 battens.
The FREEK is less expensive.

/ **GATOR**
The FREEK is less expensive.
The FREEK is lighter.

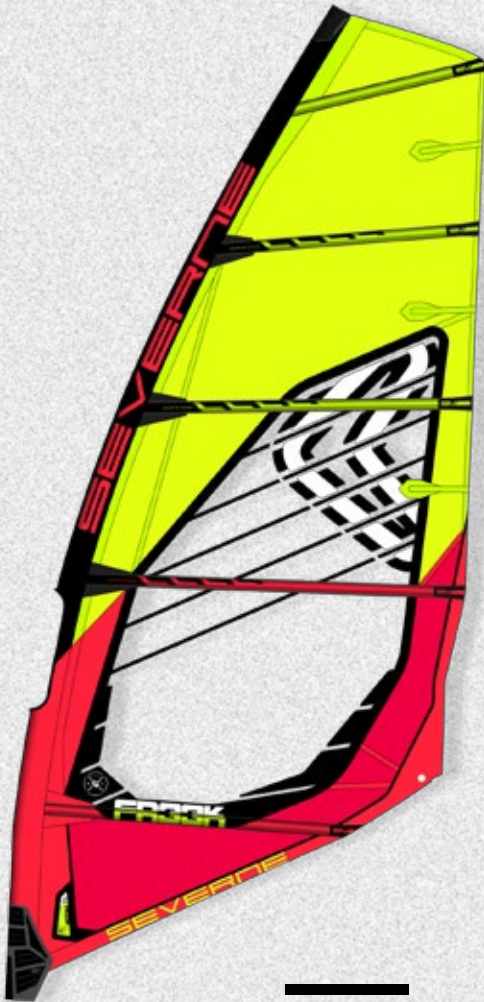
RECOMMENDED

- / **BOARD**
PSYCHO.
DYNO.
- / **MAST**
RDM RED - For ultimate performance.
RDM BLUE - High end performance with increased reliability.
GORILLA - For durability with an unconditional 2 year limited warranty.
FREEK is recommended for RDM masts.
- / **BOOM**
ENIGMA - For ultimate performance.
METAL - For high end performance.
- / **EXTENSION**
CYCLOPS

SIZE	LUFF	BOOM	BATTENS	WEIGHT	HEAD	RECOMMENDED MAST	COMPATIBLE MAST
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4.0	TBA	TBA	5	TBA	FIXED	SEVERNE 370 WAVE	SEVERNE 340 WAVE
4.4	TBA	TBA	5	TBA	FIXED	SEVERNE 370 WAVE	-
4.8	TBA	TBA	5	TBA	FIXED	SEVERNE 400 WAVE	-
5.2	TBA	TBA	5	TBA	FIXED	SEVERNE 400 WAVE	-
5.6	TBA	TBA	5	TBA	FIXED	SEVERNE 400 WAVE	SEVERNE 430 WAVE
5.9	TBA	TBA	5	TBA	FIXED	SEVERNE 430 WAVE	-
6.3	TBA	TBA	5	TBA	FIXED	SEVERNE 430 WAVE	SEVERNE 460 WAVE



CC1



CC2

