



Shear Power

The challenge to design a 10th anniversary signature sail for Bjorn Dunkerbeck has been met by Barry Spanier in the Z1. The rig structure, outline and aerodynamic function of this sail with it's Shear Tip work together to deliver the kind of dramatic results expected by the champion.


Z1 Ad


The Z1 is a pure race sail with excellent form stability,

superior upwind

performance, and the smoothest acceleration and control ever. During the close of the 1997 PWA World Tour the Z1 dominated the racing, winning at both the Sylt and Brazilian events by handsome margins.

» **Z1 specs**

» **Z1 features**

» **Z1 quotes**



Softness Edge



Shear Tip



Advantages of Z1

Ideal Downhaul For Moderate Wind

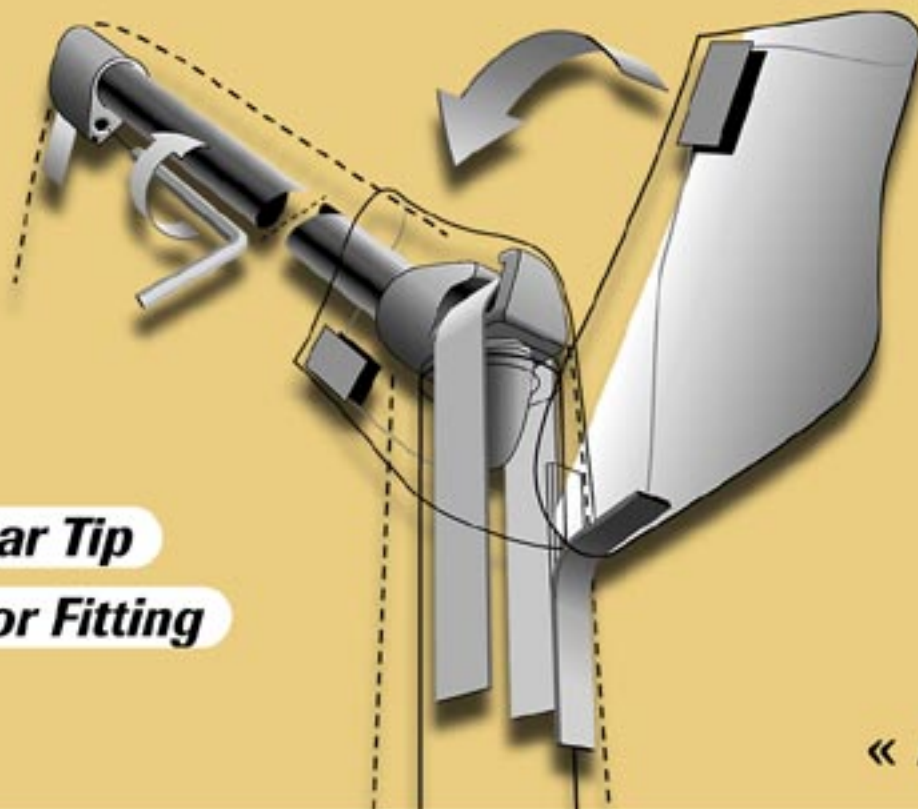
Softness edge in center of trim zone



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Trim Zone

Using a series of small dots printed on the sail as a guide - for light winds the loose section should just touch the outer dot for medium winds the center and for strong winds the inner dot.



Shear Tip

Rotor Fitting

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The Shear Tip

Barry Spanier's inspiration for the Shear Tip came from Maui Loft Manager and flying enthusiast David Starbuck whose work in light aviation and hang gliding prompted his experiments with the new concept. The deeper profile carried all the way to the head delivers the power and acceleration of lower aspect sails in a compact, manageable package that holds its shape and remains stable even at top speeds. The Shear Tip not only helps to minimize drag, it is a total system for control of leech twist and shape in the foil tip. It will redefine the planform and look of future Neil Pryde sails.

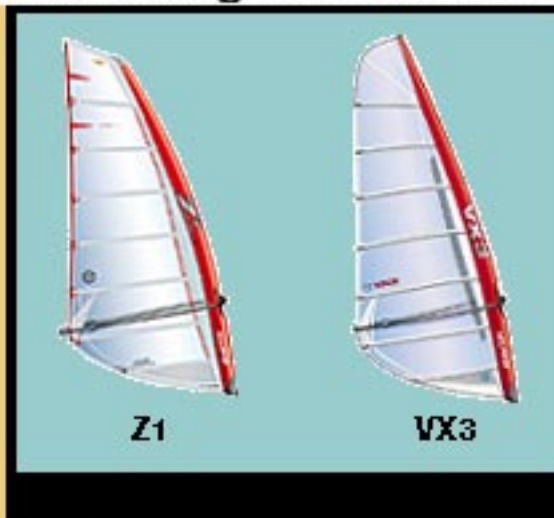
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Z1 Shear Tip

Previous VX3 Planform

Advantages of the Z1



Z1

VX3

click Δ

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Increases Stability Three Ways:

1

2

3

Doubleclick

◇ Minimizes Drag

The outline of the Shear Tip reduces drag by encouraging the air to flow off a point. This reduces the ex giving the sail superior upwind performance and control while reaching at top speeds.

◇ No Need For Specially Required M

The sails have been designed around existing Neil Pryde CK95 products.

◇ Only Four Cams

Because the Shear Tip supports the full width of the head sections the luff now sets up nicely with only four cams making it lightweight and easy to rig.

◇ The Shear Tip arm rolls up into the sail parallel to the battens so nothing has to be disconnected.

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Features

Shear Tip Rotor Fitting

Tip Arm Fairing

Shear Tip Tension Adjuster

Shear Tip Arm

Batcam III Tension System with Power Snap

Leech Chafe Protection Button

Three Position Clew

Tube/Oval Rod Batten System CNC Tapering

Lufflite 6

Benefits

Absorbs shock loads on Tip Arm to prevent mast damage.

Reduces chafe and limits water pickup. Aerodynamic.

Aerodynamic trailing edge, adjusts tension for the tip sleeve.

Stabilizes upper section of the foil, maintains leech tension.

Light and clean, no tools required to adjust batten tension.

Prevents abrasion of the sail when rigging on rough surfaces.

For maximum performance in every condition.

For ideal draft position and minimum weight.

Light, stable, strong for smooth clean leading edge.

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Features

Kevlar™ Leech Tape

Neoprene Tack Fairing

K/Ply 150/22 Foot Panel

Neil Pryde Triple Roller SuperCam System

K/Ply 100/6 Luff Panel

Vert-X Construction

Fanned Batten Geometry

Conic Luff Pocket

Trim Zone

Benefits

For maximum tear strength and minimum weight.

Gives an aerodynamic leading edge, protects feet and board.

Lightweight durability and shape stability.

Superior leading edge development and smooth rotation.

Perfect for load distribution out of both head and tack area.

Dynamic stability, soft feel, draft control.

Soft feel, best aerodynamics.

Shape stability, easy rotation, rigging and waterstarts.

Easy, visual trim guide that provides guidelines for correct tuning.

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Size	Weight	Luff	Boom	Top	Base		Mast Choice	
	kgs	+/-	+/-	Setting				
		mm	mm		Carbon	Alum.	Ideal	Compatible
5.5	4.125	4350	1800	Fixed	6	5	CK95-430	CK75-430
5.9	4.315	4440	1860	Fixed	14	15	CK95-430	CK75-430
6.3	4.500	4600	1930	Fixed	0	0	CK95-460	CK75-460
6.6	4.585	4680	1970	Fixed	8	7.5	CK95-460	CK75-460
7.0	4.720	4780	2050	Fixed	18	17.5	CK95-460	CK75-460
7.4	4.865	4900	2140	Fixed	0	0	CK95-490	CK75-490
7.8	5.010	4960	2210	Fixed	6	7.5	CK95-490	CK75-490
8.3	5.21	5090	2290	Fixed	20	20	CK95-490	CK75-490
8.7	5.45	5340	2330	Fixed	14	15	CK95-520	-
9.3		5410	2400	Fixed	22	22.5	CK95-490	-

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“We had every reason to believe the Z1 was going to be a success based on the reaction of the sailors. People were stunned at how fast Bjorn was going in Sylt, right from the beginning it was no contest. Bjorn had about an hour on the new sail and decided he’d rather be racing on the Z1 than anything else. This has given us a lot of confidence, to have the enthusiasm of the sailors driving the whole thing.”

-Barry Spanier

“I put the first Shear Tip on a small recreational sail and the ease of handling and increased performance was obvious. What was especially interesting was the improvement in control when overpowered, I knew that this would have application throughout the entire spectrum of designs. We were fortunate to have immediate success and that spurred the enthusiasm of the racers...I have been involved in hang gliding and light aviation for twenty five years so I look at sails as wings. It was recent developments in aviation and my understanding of flex wing gliders that inspired the development of the Shear Tip.”

-David Starbuck

“The Z1 is a fast, efficient sail. The twisted leach remains in constant tension right to the top and this feels like it creates more lift over the entire foil. The result is a sail that is early to plane, quicker to accelerate and more importantly for us has a faster top end.”

-Scott Fenton

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 **NEILPRYDE**

Z1 RACE SAIL



Z1

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People think the inspiration behind the Z1 had something to do with complex aerodynamic theory.

When you would expect the Z1 to have more of a sporting spirit, in the words of Peter Dinklage, it's simple. Just ask anyone

who can tell you that it's the 'head' to the 'tail' that does the Z1. As proven by not only winning outright, creating a total system for

The truth is much simpler...



and far more effective.



control of each twist and shape in the foil. So at Dinklage's side, the Z1 is an absolute world class you can be sure the Z1

will be the weapon of choice. Check out your local dealer or call Adventure Sports Inc. on 800-638-3321. **NEILPRYDE**

IF IN DOUBT GO FASTER
WINNING IS A STATE OF MIND
NEVER BE SECOND
YOU DON'T WIN SECOND PLACE
YOU LOSE FIRST
DON'T AIM TO WIN
AIM HIGHER
FIRST IN, LAST OUT... EVERYDAY
IF AT FIRST YOU DON'T SUCCEED

[enlarge left side](#)

[enlarge rightside](#)

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A man is sailing a yellow catamaran on a deep blue sea. The sail is red with a white 'Z' logo and yellow accents. The man is shirtless and wearing a yellow life vest. The water is splashing around the hulls. On the left side of the image, there is a vertical strip with the letters 'F', 'W', 'I', 'L', 'L', 'I', 'S' in a stylized font.

People think the inspiration behind the Z1 had something to do with complex aerodynamic theory.

IF IN DOUBT GO FASTER
WINNING IS A STATE OF MIND
NEVER BE SECOND
YOU DON'T WIN SECOND PLACE.
YOU LOSE FIRST

Whilst we wouldn't claim the Z1 is faster than a speeding bullet, in the hands of Bjorn Dunkerbeck it's deadly, just ask anyone

who saw him at Sytt. It's the Shear Tip that gives the Z1 its power by not only minimizing drag but creating a total system for

The truth is much simpler...



and far more effective.



DON'T AIM TO WIN
AIM HIGHER
FIRST IN, LAST OUT... EVERYDAY
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control of leech twist and shape in the foil. So as Dunkerbeck sets his sights on an eleventh world title you can be sure the Z1

will be his weapon of choice. check out your local dealer or call Adventure Sports Inc. on 805-591 3922 **NEILPRYDE**

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