SPEED

The recent Luderitz Speed Challenge proved that much higher speeds are still possible in windsurfing. In marginal conditions, with just a 40kt average wind speed, windsurfers easily exceeded the 50kt barrier and even hit top speeds of over 100km/h with 5.5m sails. Such impressive results lead us on to the question, what exactly will happen when the wind starts blowing over 50kts? Equipment will undoutedly play an important part and PATRIK not only has the right shapes to go fast, but also the knowledge to support each and every speed sailor on their journey to breaking that next target.

PATRIK Speed: Join the 40kt and 50kt clubs. And, do what humans have loved doing for centuries - go as fast as you can!

DIMENSIONS	Length [mm]	Width [mm]	Volume [litre]	Tail Width at 300 [mm]	Nose Width at 2000 [mm]	Weight (+/-6%) [kg]	Strap Options & Insert Holes	Strap Quantity	Fin Box	Approved Series
Speed 39	2275	395	51	TBC	TBC	TBC	3x4	3	Tuttle	ISAF
Speed 43	2280	430	61	268	307	4	4x4	4	Tuttle	ISAF
Speed 48	2290	480	71	293	357	4.5	4x4	4	Tuttle	ISAF
Speed 53	2300	530	81	314	394	5	4x4	4	Tuttle	ISAF

SHAPE DETAILS	Size	Description
Scoop Rocker Line	All	As low a nose as possible to maintain the flattest curve, which reduces friction to an absolute minimum.
Outline	All	Narrow in the tail to minimise the wetted surface area for maximum speeds and a forward wide point for early planing and control. Not too short in length to enable early planing and to allow the rider to use the smallest board possible.
Bottom Shape	39	TBC
	43, 48, 53	Slight vee with double concave and side flats in the nose area and under the mast track for a smoother ride. Slight flat vee in the tail area for maximum acceleration, speed and control.
Deck Shape	All	A very extreme S-deck shape with a low back foot area, high front foot area and low mast track position to provide the most comfortable and controlled downwind sailing position.
Rail Shape	All	Thin at the nose and at the mid section to reduce weight. Very boxy rails at the front strap prevent water sucking up the rail and allow the rider to stand tall. Thin and low rails at the back foot enable the rider to stand lower and have the best water release possible.

RANGE OF USE	Sailor Type (Weight & Size)			Sailor Skills			Ideal Wind Strength / Sailor Type			Water Conditions			Best Sail Size [m2]	Sail Range [m2]	Rec. Fin Size [mm]	Fin Range [mm]
	S	M	L	Entry	Advanced	Pro	Low	Med	High	Flat	Chop	Wave				
	< 70kg / < 170cm	70-90kg / 170-190cm	> 90kg / > 190cm	uphaul, gliding all reaches	waterstart, strap & harness, first jibes	moves, waves, speed	< 15 knt	15-25 knt	> 25 knt	flatwater / chop: < 1m	chop / wind waves: < 2.5m	wind waves / swell: > 2.5m				
Speed 43	●	●	●			●		S	S/M/L	●			4.5-6.0	3.5-6.3	170 "wide" / 240 "pointer"	150-200 "wide" / 20-280 "pointer"
Speed 43	●	●	●			●		S	S/M/L	●			5.0-6.5	4.0-6.8	190 "wide" / 260 "pointer"	160-210 "wide" / 220-300 "pointer"
Speed 48	●	●	●			●		S/M	S/M/L	●			6.0-7.0	4.5-7.3	210 "wide" / 280 "pointer"	170-220 "wide" / 240-320 "pointer"
Speed 53	●	●	●			●	S	S/M/L	S/M/L	●			6.5-7.5	5.0-7.8	230 "wide" / 300 "pointer"	180-230 "wide" / 260-340 "pointer"

CONSTRUCTION	Speed All Sizes	
Intro	Small boards such as speed guns appear to be so light, compact and stiff already that they don't require any exotic materials to improve their performance. However, when you need to accelerate from planing speed to over 50kts in the space of 100-150m, then every kilo counts and the lighter, the better! Using a board in just flat water wouldn't put too much stress on the constrcution, but you can't gurantee it'll just be glass flat - the route back upwind at most venues is often extremely choppy and it is this that could cause damage. To reduce twist as much as possible yet maintain some flex for a controlled ride, we use Biax-Carbon on the deck. To ensure a soft and even more controllable ride we use glass on the bottom (just like our slalom boards). To maintain our uniform graphic identity, the glass on the bottom is laminated with black resin, finished with a white coat and sanded back by around 75%.	
Application	Technology	Composite Semi Custom Sandwich
	Core Material	EPS (Styrofoam)
	Sandwich Material	PVC Sheet
	Final Lamination	Deck: Full Carbon Biax 45°-45° / Bottom: Full Glass 90°-90° (Black Resin)