

# Parasailor<sup>IS</sup>

内股

UCHIMATA



Redaction : Annie & Marc Bernard, ISTECH  
Réalisation : Jérémie Menardon, Uchimata Sailing Service  
Design : Pierre & Jérémie Ménardon , Uchimata Sailing Service



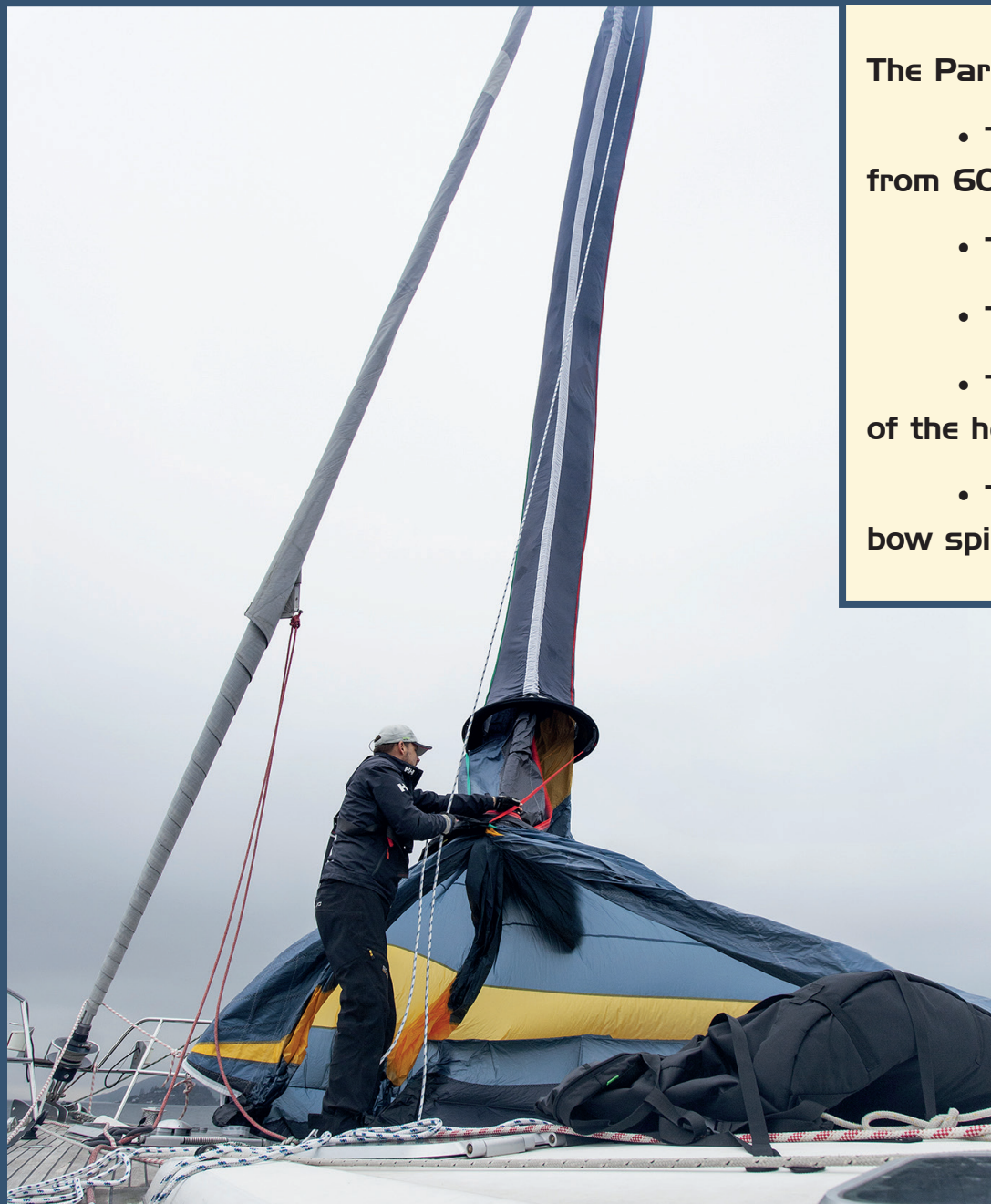




# Introduction

The Parasailor is :

- The largest range of use ever achieved by a downwind sail : from 60° to 180° of the apparent wind.
- The largest range of use in terms of wind force.
- The greatest ease of use for crew sailing. (\*lonely facility\*)
- The greatest stability downwind: relief of the bow and reduction of the heel.
- The most economical: a single sail with no spinnaker pole, no bow spirit or furling system... for all downwind sailing.



# Parasailor new generation

The shape of the sail has been completely redesigned.

The inflated wing surface is shorter, the upper sail is longer than the lower sail and forms a single sail from the rear end to the inflated wing part.

The corner reinforcements are kept and slightly refined.



ISTEC Parasailor from 2004



ISTEC Parasail from 2008  
Single Skin Wing



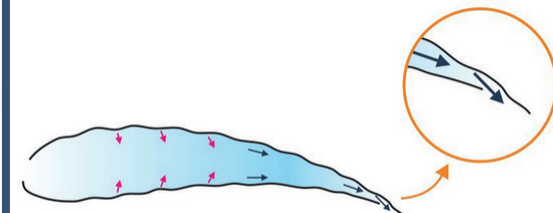
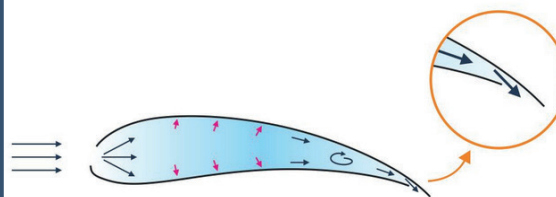
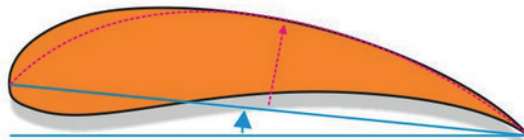
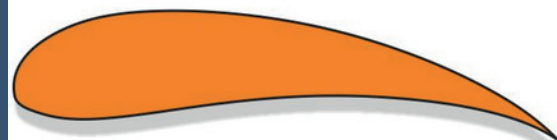
ISTEC New Generation Parasailor  
from 2019 - Hybrid Wing



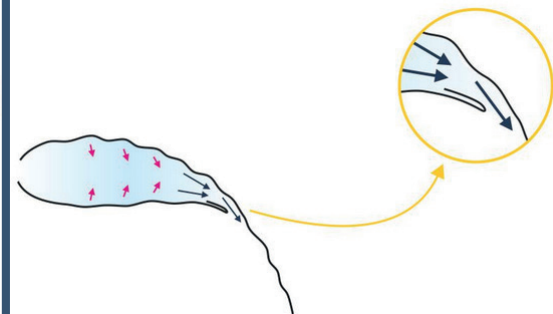
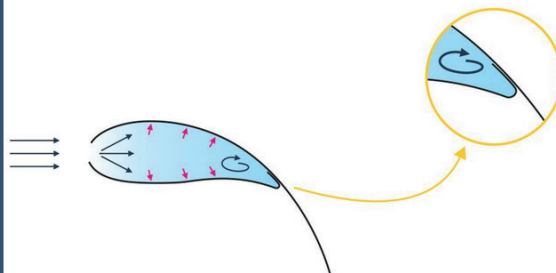
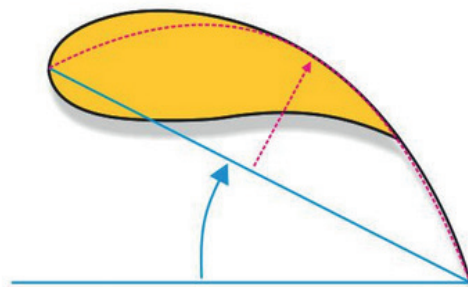
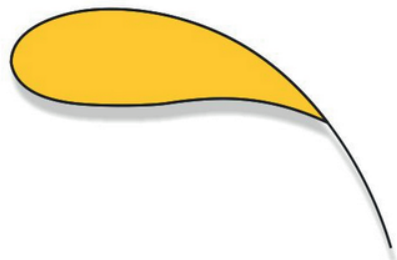


# Parasailor new generation

**Dynamic pressure wing**  
Old Parasailor



**Hybride wing**  
Parasailor New Generation



The camber is larger, the angle of attack increased, offers better lift and increased thrust.

The integrated mesh at the leading edge of the wing ensures an optimal position.

A valve flap system is added, which tightly seals the trailing edge when the wing is inflated. It is only when the wing collapses that these flaps open independently and allow the internal pressure to escape quickly.

Thanks to these new features, the Parasailor NG can be used at lower wind speeds, the hybrid wing deploys from 2 Knots.

With the shorter inflated surface, the wing volume is also smaller, resulting in a significantly better recovery performance.

The Snuffer (sock) goes much more easily on the wing, you will have to wait briefly when the funnel arrives on the wing so that the profile begins to deflate.



# Presentation of Parasailor

## The principle

From the search of a passionate sailor and paraglider, the Parasailor is the choice to combine the advantages of both.

ISTEC presents here its downwind sail resulting from the combination of the lift qualities of a paragliding wing combined with the power of a symmetrical spinnaker.

The result is successful and spectacular.

This new kind of sail is a concentrate of technologies pushed to the point of obtaining reliability, a facility and a range of use never reached by a downwind sail.





# Presentation of Parasailor

## The technic

In a conventional spinnaker, the air enters the sail and slows down its course, which increases the pressure and generates the propulsion of the boat. The pressure accumulated in the hollow of the sail but whose evacuation not channelled out then tends to escape at random from helm movements, sea formation and wind jolts.



In the Parasailor, the flow is channelled and, flowing through the air intake located in the middle of the sail is directed towards the wing to feed it with a powerful and controlled ventilation system that allows a second phenomenon of active force, lift, to be associated, thus adding a component to the thrust.

Thanks to the profile and the incidence of the wing, the air is accelerated in its upper part (extrados - suction side) which generates a strong depression which will literally suck the wing upwards (like an aircraft wing).



# Presentation of Parasailor

## The quality

An aeronautical fabric, such as a paragliding wing with hangers tied by lark knots, a symmetrical spinnaker with an air intake to channel the flow, an impeccable design, a lot of work and care... This is the recipe that has made the Parasailor a powerful tool for downwind sailing.





# Presentation of Parasailor

## The benefits

- A Parasailor alone is an excellent replacement for at least two classic downwind sails, with truly innovative qualities.
- It allows to navigate from close reaching to running without change a downwind sail during all the cruise.
- It allows to jibe very easy using only the 4 afterguys.
- It's the only symmetric spi which doesn't need spinnaker pole, neither furling system, no bow spirit. It's already equipped of its own snuffer.
- Its air-intake and its wind allow it to handle gusts, wind's changes, to cushion helm's movement and waves, wich allow at the sail to stay stable, without flap and tear.

- It brings stability and calm onboard in limiting monitoring, mavoœuvre, heel and roll.
- stem's reduction.
- The increase of the pressure on the rudder blade.
- Less risks of capsize.
- An easier departure on surfing.





# Technical detail

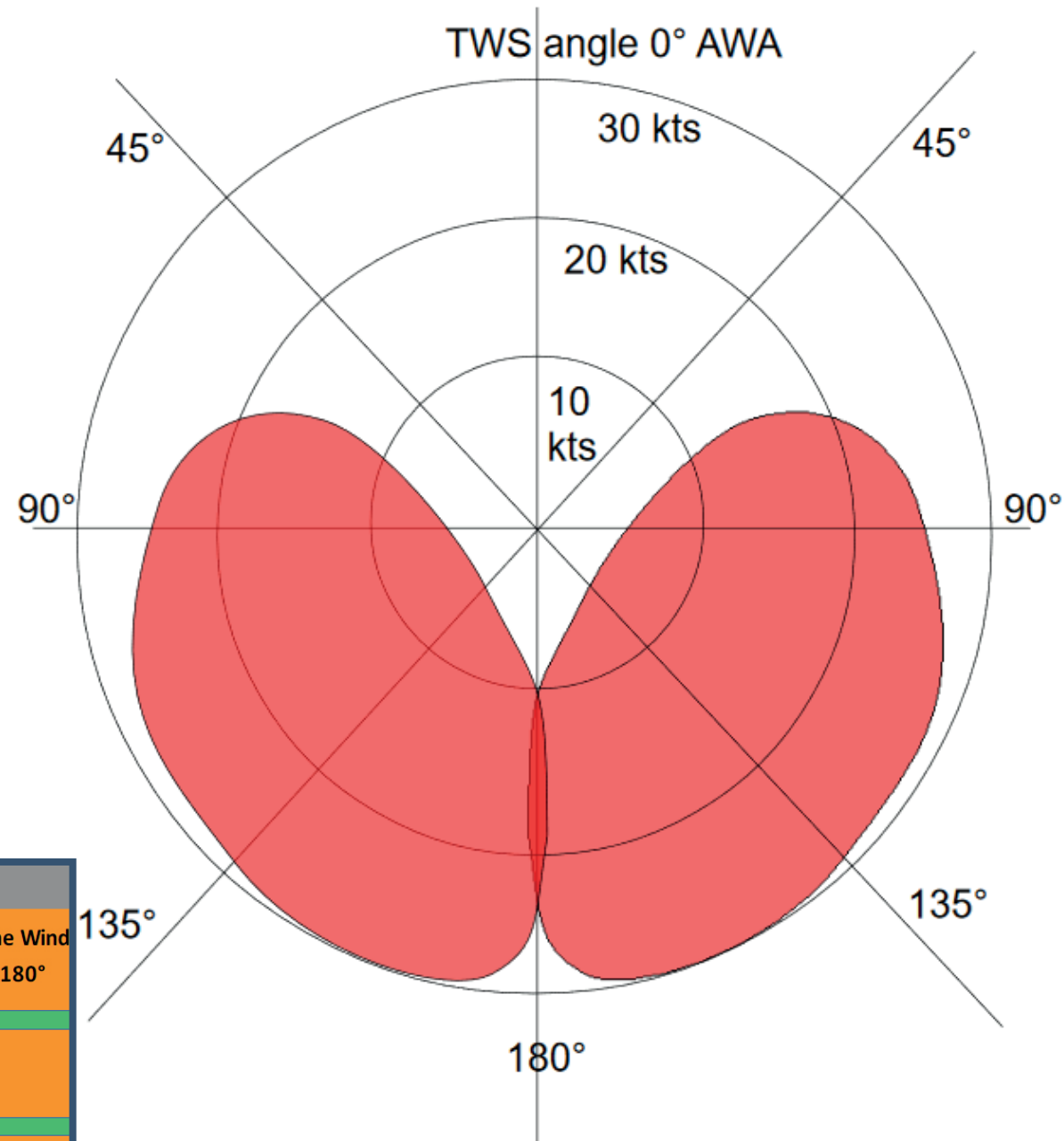




# Technical detail

The largest range of use never achieve by a downwind sail.

range of use on AWA of the Parasailor without spinnaker pole (It can depend on the boat and the use of the mainsail)



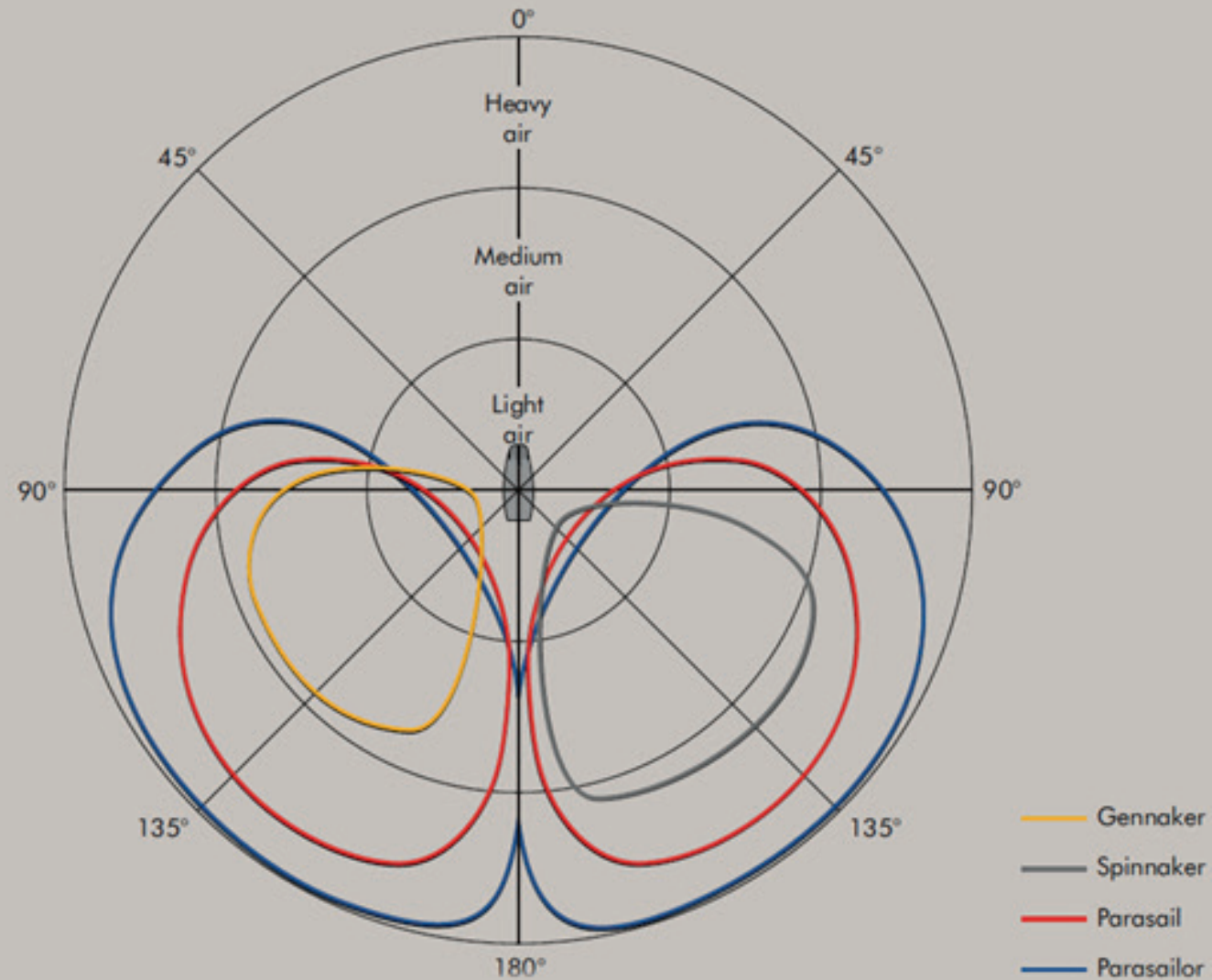
Comparison of families of downwind sails (apparent wind angle)

	Close reaching 60° à 80°	Reach Beam 80° à 110°	Reach Close 110° à 130°	Reach Broad 130° à 160°	Before The Wind 160° à 180°
Symmetric + spinnaker boom					
Asymmetric					
Parasailor					



# Technical detail

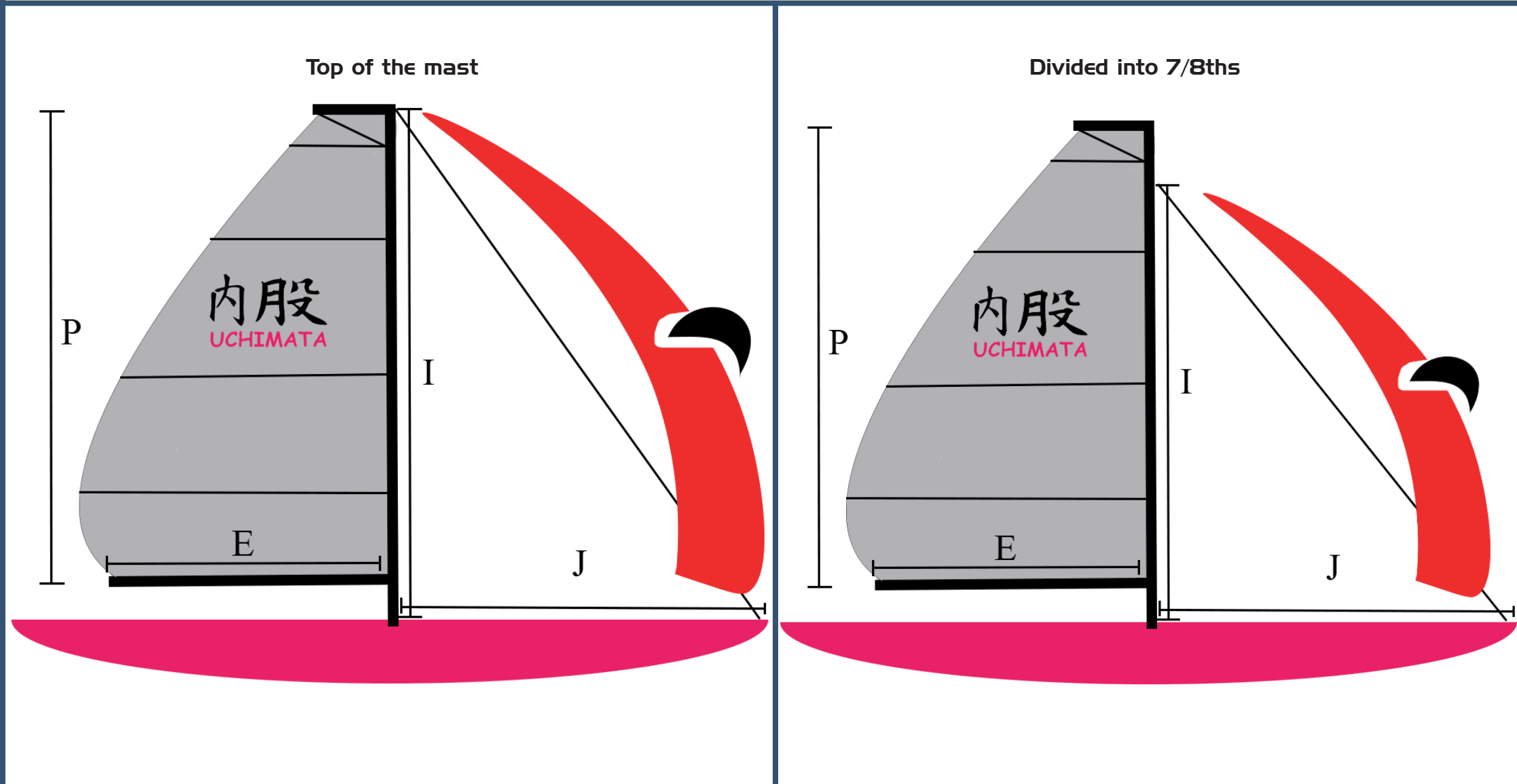
The right wing for your requirements





# Technical detail

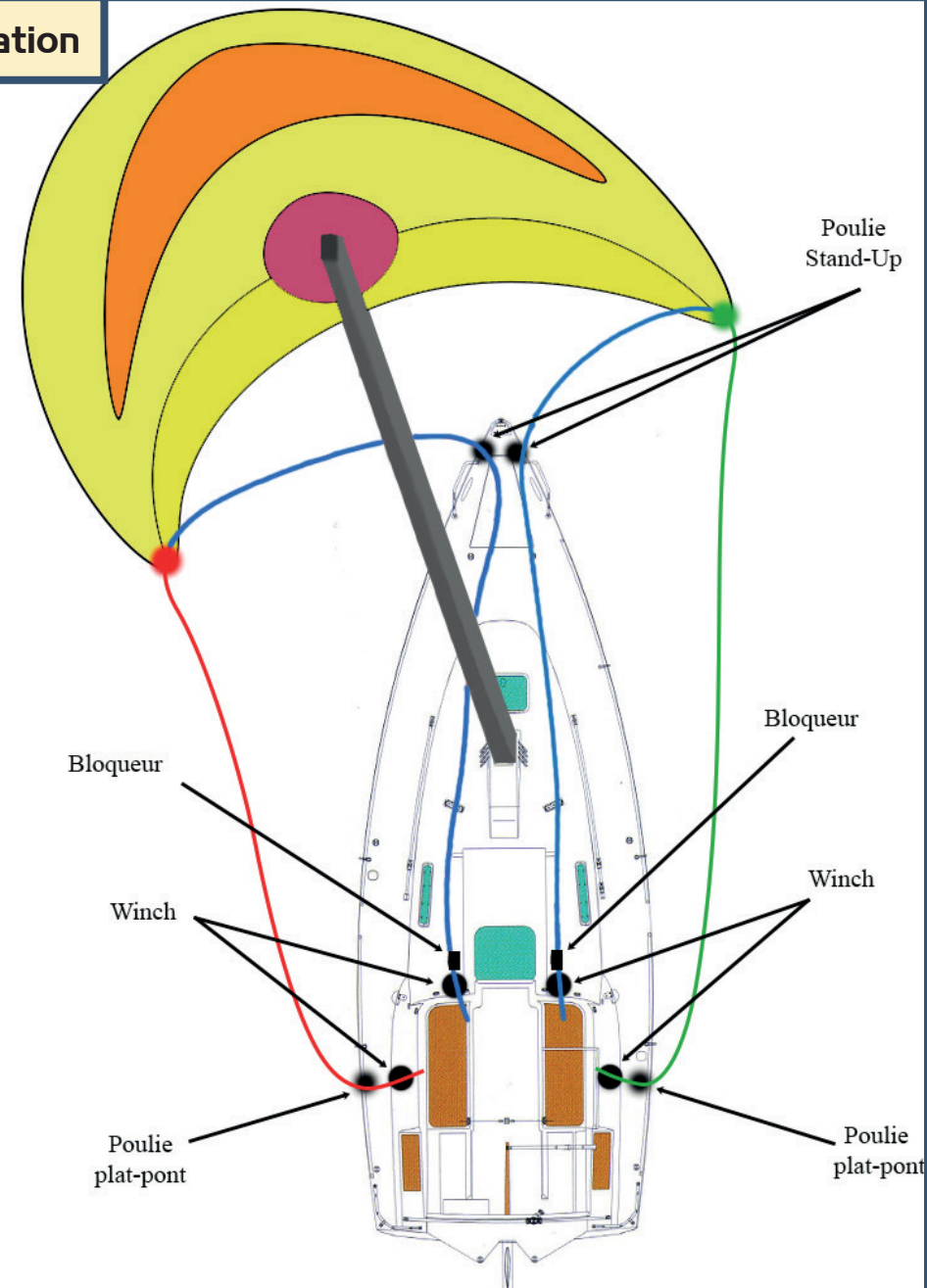
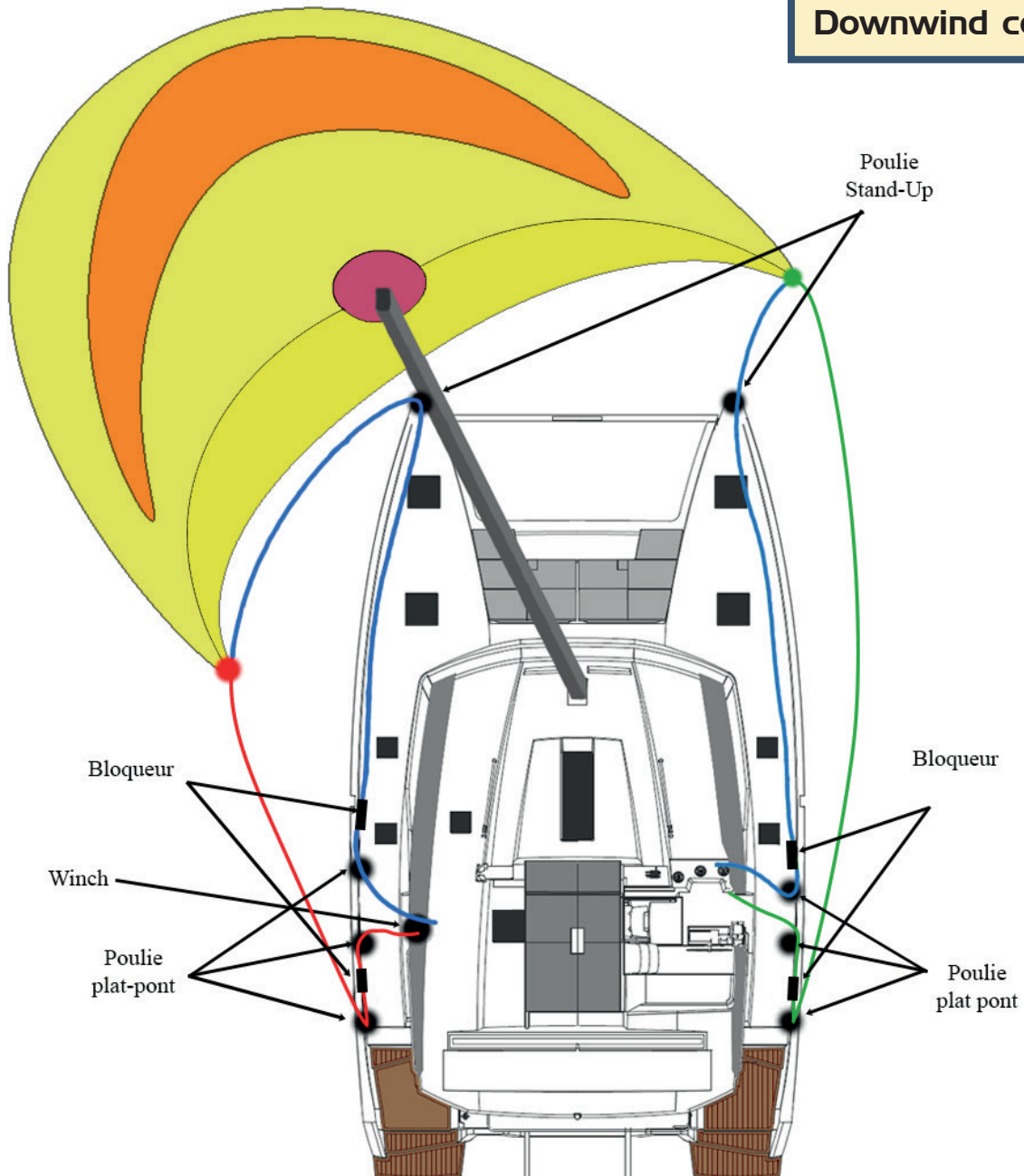
The I is the necessary measure requested to compute the surface of the sail.  
(length from mast base to forestay anchor)





# Technical detail

Downwind configuration



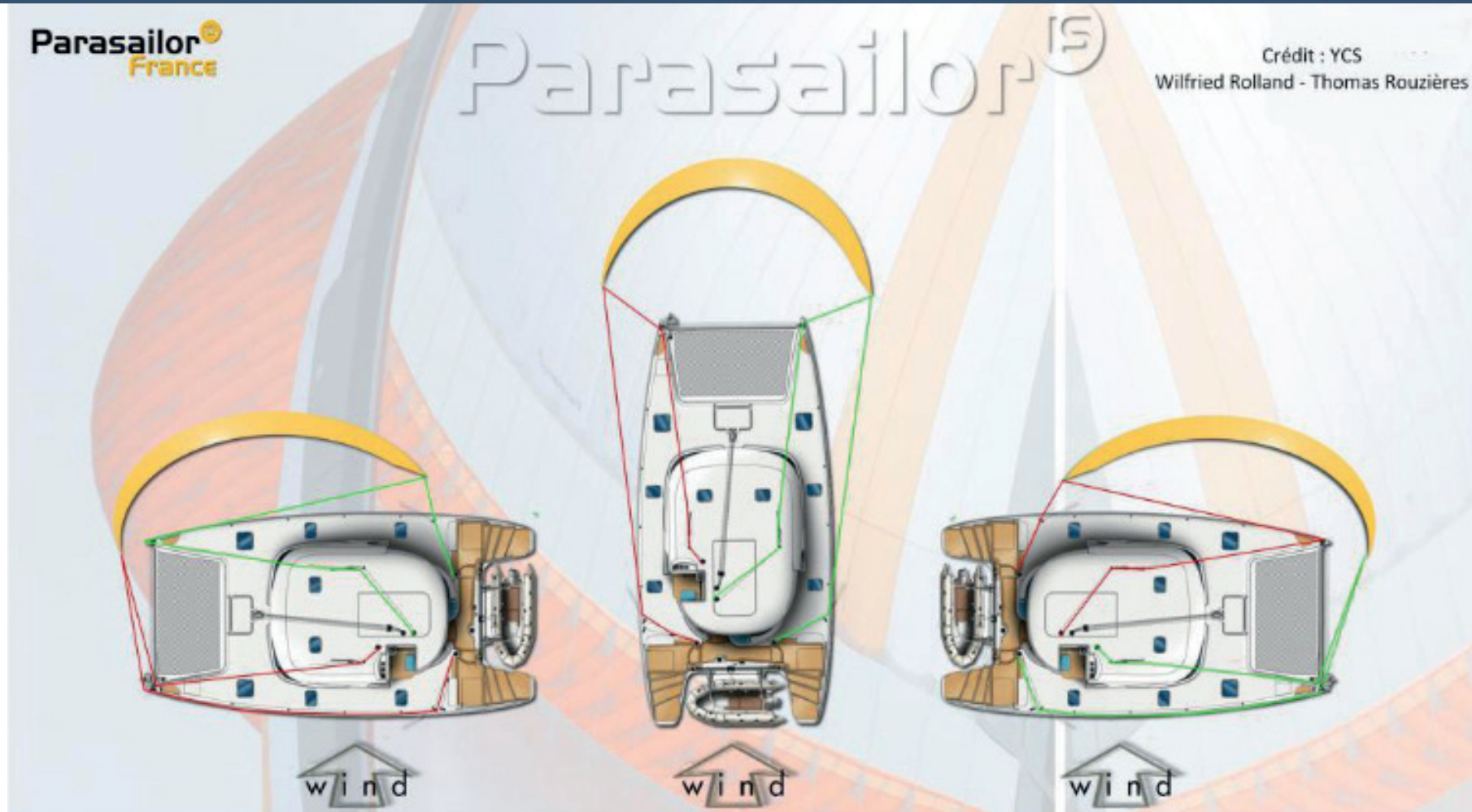


# Technical detail





# Technical detail

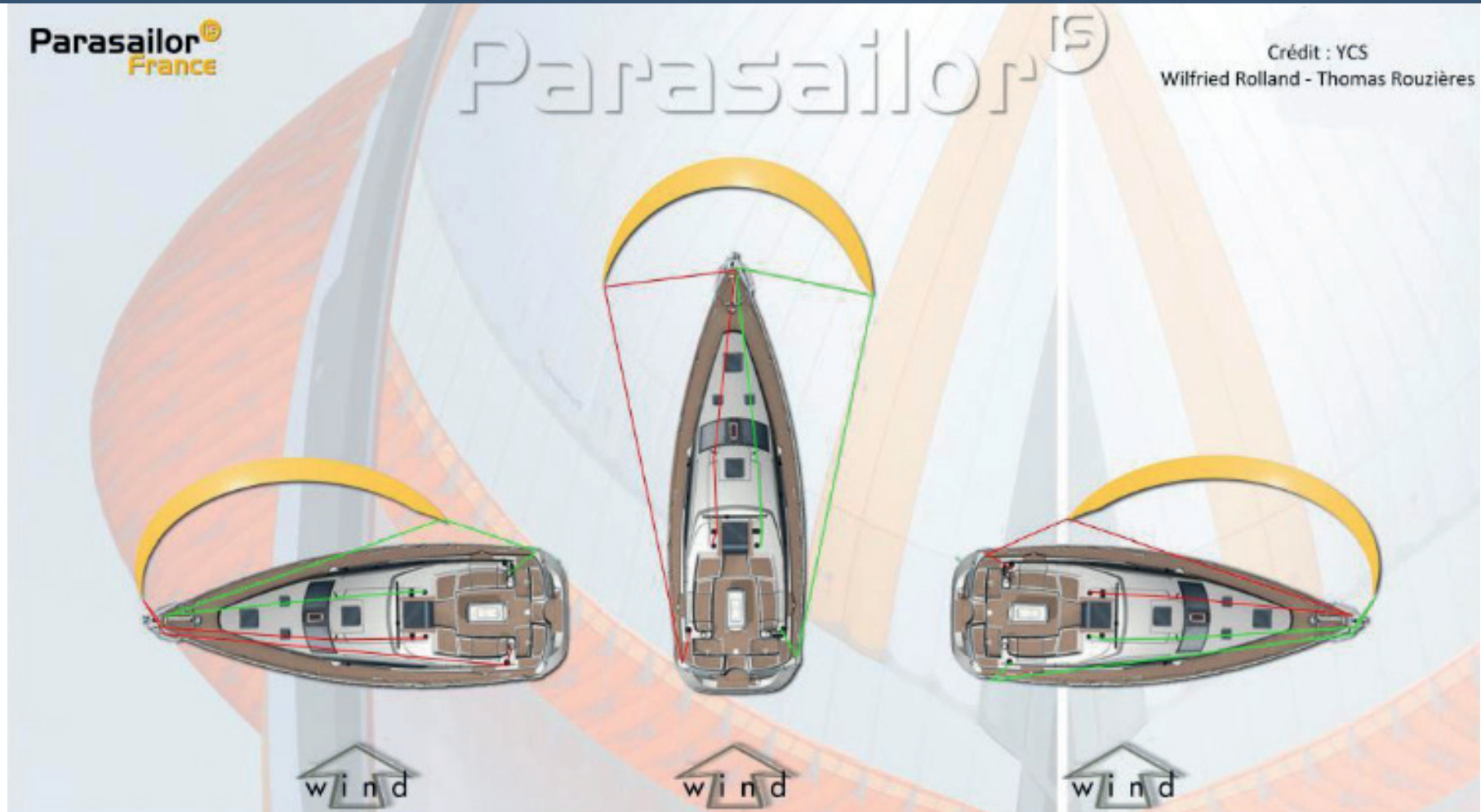


## Diagram of plan's deck of multihull / Parasailor

A halyard, the sheets and... a Parasailor. You are ready to sail at the lift with the most stable of sail and always efficient. A unique solution : simple and completed from  $-60^{\circ}$  to  $+60^{\circ}$  AWA, passing to  $180^{\circ}$  of wind.



# Technical detail



**Diagram of plan's deck of single-hulled craft / Parasailor**

A halyard, the sheets and... a Parasailor. You are ready to sail at the lift with the most stable of sail and always efficient. A unique solution : simple and completed from  $-60^{\circ}$  to  $+60^{\circ}$  AWA, passing to  $180^{\circ}$  of wind.



# Parasailor<sup>IS</sup>

bien plus qu'un spi.

Crédit : YCS  
Wilfried Rolland - Thomas Rouzières



Et si votre nouveau spi se prenait pour une aile ?

内股  
UCHIMATA

ISTEC  
the downwind company



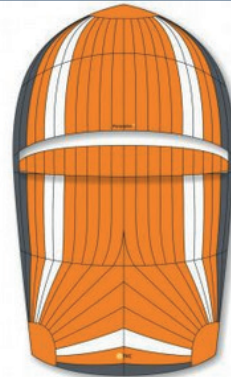
# The colours



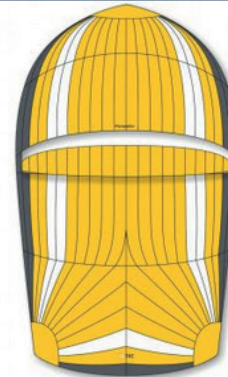
BLUE PASSION



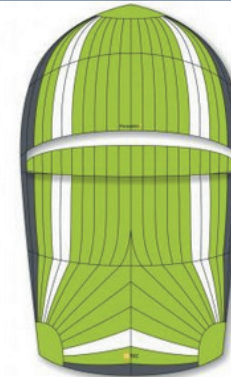
RED PASSION



ORANGE PASSION



YELLOW PASSION



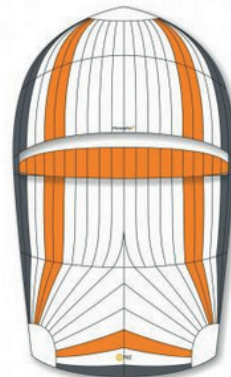
GREEN PASSION



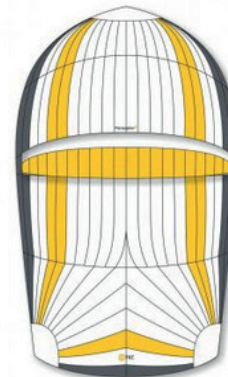
BLUE VISION



RED VISION



ORANGE VISION



YELLOW VISION



GREEN VISION



BLUE EMOTION



RED EMOTION



ORANGE EMOTION



YELLOW EMOTION



GREEN EMOTION



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05.46.52.16.42

[Pierre.Menardon@uchimata.fr](mailto:Pierre.Menardon@uchimata.fr)

Uchimata Sailing Service

Za des minimes - 3 Quai Marillac

17000 La Rochelle - France