

# Swing Speedriding Wing Guide

## The Right Wing

The Swing Speedflying Team wanted to develop an advanced wing, for riders who have progressed over the years on their spitfire. We came up with the Mirage. The Mirage works exactly the way we wanted it, except the fact that it is actually easier than we thought. We have realized the Mirage is not only a wing for advanced Pilots, it is a wing nearly everybody can fly. It does not replace the Spitfire at all, both wings have their advantages.

We see the Mirage as the greatest all-round wing, with the biggest range ever available. It can be used for talented beginners with the bigger sizes, but also for advanced and competition pilots. It's biggest advantage is the huge range, which makes it so versatile and at the same time gives you a lot of confidence, because it's glide always takes you to your planed flight route.

The Spitfire is still the weapon of choice for beginners but also for hardcore speedriders, wanting to ski every single bit snow on the mountain without worrying about the glider. The spitfire offers more stability for pilots who often want to fly fast in very turbulent air. To get an idea, have a look at the chart below, but best still is you go out and try both wings!

	<b>Spitfire</b>	<b>Mirage</b>
Total glide range	Big	Biggest of all
Best glide trimms closed (ca.40% brake)	Good	1 Point more L/D ! than Spitfire
Best glide trimms open (ca. 40% brake)	Good	Much better than Spitfire
Dive straight flight	Steep	Same as Spitfire
Max. dive in a steep turn (Altitude loss in a turn)	Big	Same as Spitfire
Flatturn possibility (eg. for soaring)	Good	Better than Spitfire
Speed trimms open, straight flight	Fast	A bit faster than Spitfire
Speed in a steep turn	Fast	Faster than Spitfire
Minimum Speed	Slow	Same as Spitfire
Low speed riding ability (slow skiing)	Easy	More difficult
Ground sticking (Lift during skiing)	Great, nearly no lift	Good, a little more lift
Energy Conversion (Speed into lift)	Great	Unbelievable!
Riding stability	Great	Great
Rider tracking (Intuitive follow from the rider)	Perfect	More input necessary
Direct steering feeling (Go kart Feeling)	Very direct	Direct
Barrel rolls ability	Good	Same as Spitfire
Influence of weightshifting	High	Same as Spitfire
Swooping distance	Far	Forever
Swooping difficulty	Easy	Very easy
Trimm operation	Easy	Same as Spitfire
Stability in turbulent air with closed trims	Great	Nearly as great
Stability in turbulent air with open trims	Great	Good-more demanding
No wind take off with skis	Very easy	Easy
Strong wind handling	Very easy	More difficult
Take off distance	Short	Very short
Line handling	Easy	Very Easy

## The Right Size

After you know which wing you like, you need to order the correct size. The correct size depends on your weight, your skills and what you like to do with your wing. Ask your Swing Dealer for Support, to have the right size. Don't choose a too small wing! A too small wing can put you in danger and also keep you off from progression.

Spitfire vs Mirage, which size Mirage?

If you have flown a Spitfire in the past and you would like to change to a Mirage you should know:

- A Mirage has a better glide and more lift while skiing.
- A Mirage converts your speed even better in altitude-> This can mean more safety margin. But keep in mind, the dive will follow!
- A Mirage has a bigger projected area than a Spitfire would have at the same size. Thanks to those factors, the Swing Speedflying Team recommends to take the Mirage a size smaller than a spitfire. Most likely you want to downsize anyway, so one size smaller is perfect for you. If you would like to Speedride the same way you always did, but have the option of a much better glide, choose the 0.5m bigger Mirage.

Progressive Style:

15m Spitfire->13.5m Mirage  
13m Spitfire->11.5m Mirage  
11m Spitfire->9.5m Mirage  
9m Spitfire->8.5m Mirage  
8m Spitfire->Mirage Comp

Want to have a much better glide:

15m Spitfire->17m Hybrid  
13m Spitfire->13.5m Mirage  
11m Spitfire->11.5m Mirage  
9m Spitfire->9.5m Mirage  
8m Spitfire->8.5m Mirage

Please be aware, that the Mirage Comp is only available to selected pilots with approval from the Swing Speedriding Team. This is due to the demanding properties of this special Comp Wing.