

## AERO FRICTION PURCHASE GUIDE

Whilst I could just refer you to NoPinz website for info, it can be a bit faffy going in and out of lots of product pages to try to figure out whats what – so this document is to (hopefully) help make things easier.

NoPinz do some amazing stuff – and as always critical with ZFC – extremely robust testing and proven performance. Sharing a wind tunnel with Bio Racer, NoPinz are at the cutting edge re the most aero kit you can get (oh, and also rather importantly, its UCI legal! – most of it...☺)

And without continuously puncturing holes in your expensive magnificent kit, NoPinz suits will last and look amazing after many many races.

ZFC will be building stock of the key bits of kit that go together to save you a veritable bucket load of watts. At the time of writing this guide I am at the beginning of building stock lines, so if an item is not on webstore and you covet said item, simply email me what you are after and I will have on next order post haste.

Why buy NoPinz from ZFC vs NoPinz?

- Cheaper landed to your door price as shipping is \$9.95 aud vs around \$45. Especially if getting kit with other zfc goodies.
- Much faster delivery for in stock items.
- Australian point of contact in the unlikely event of any issues.

Righto, how to select the kit that will have a lot more of your watts pushing you forwards faster vs being lost to the wind. Remember the rider is the biggest drag component by far, watts saved per \$ spent is VASTLY in favour of race suits / skin suits vs aero frame / wheels. You will save a lot more watts and at a fraction of the cost, hence why ZFC has prioritised NoPinz kit as the first step into aero friction saving products.

**ATS Trip Suit.**

Watts saved at 45kmh = 16 watts.

- Need to select either open or closed options as suits are optimised based on rider position. Simply measure centre to centre of tt bar pads. If under 16cm, then closed position, if greater than 16cm, then open position.



*(\*various colours available / will be available)*

### **Time Warp Suit**

This suit is optimised for riders who average between 49 to 60kmh in TT's. Contact me for further information and order, at this time these suits will be ordered on request vs actively stocked as have larger demographic stock lines to build stock range and depth in. The service you get from me will be as speedy as you ride! 😊



*(\*various colours available / will be available)*

### **Super Suit**

Watts saved at 45kmh = 10 watts.

A great option if looking for a versatile suit for road racing and time trials, and at a bit more budget friendly vs Trip Suit.



*(\*various colours available / will be available)*

### **Road Race 2.0**

Watts saved = TBA, but notable vs even a race fit bibs and jersey. Will match as minimum and likely exceed any other short sleeve race suit on the market, and remember – there are up to 5w to be saved just by having race number pockets vs pinned on numbers at 45kmh. Will update with official watts saved when available, till then – trust this is as good a short sleeve race suit as you can get.

If need longer sleeves on day, pair this with aero stripe arm warmers. They are summer weight with and with aero stripes. More aero than bare skin indeed.



*(\*various colours available / will be available)*

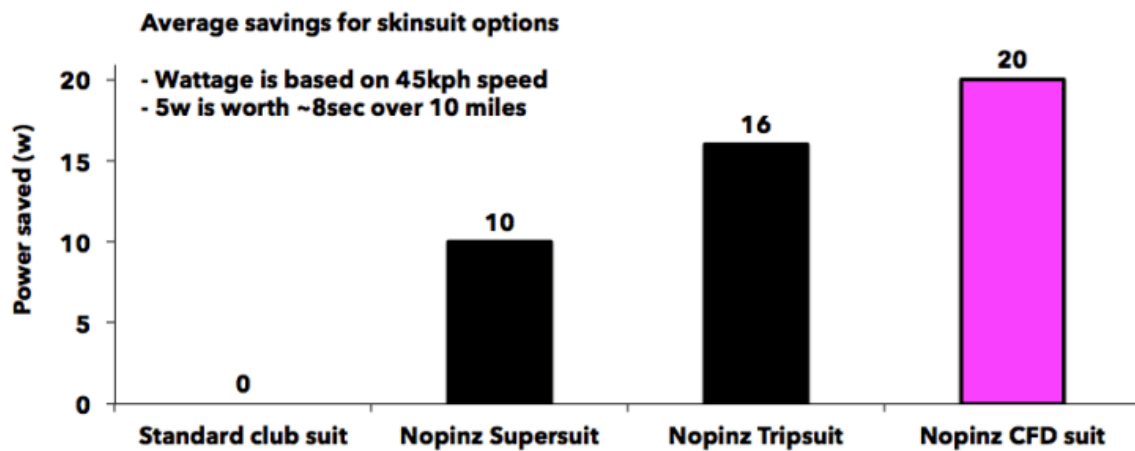


(road race suite rear pockets and NoPinz number pouches)



(Trip Suit / Time Warp Suit / Super Suit rear number pouch)

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*\*\*Note the CFD is not an actual suit, that is computer simulation re maximum possible vs the actual measured results*

Link to NoPinz site for further information re above products

<https://www.nopin.com/product/nopin-aerocoach-ats-trip-suit/>

## Speed Socks

Watts saved at 45kmh = 2.5watts.

A cheap easy 2.5watts. You have to wear socks, so you may as well wear fast ones.



### NoPinz/Aerocoach Aero Socks

Watts Saved = 4.5watts

Next level up from Speed socks. Taller but within UCI legal limits.

Saving 4.5watts just in a pair of socks is pretty cool.



### Trip Socks

Watts Saved – Not separately specified as only listed with Trip overshoes as a pairing – seeking clarification – however is the next level up again on Aero Socks, however note these are **NOT uci legal** so for triathletes only. Special order only at this stage.





## Trip Overshoes

Watts Saved at 45kmh = 8 watts

➤ **UCI LEGAL.**

Use for A priority races / TT's vs aero socks or speed socks as will cover those socks. They are the most uci legal free leg speed.

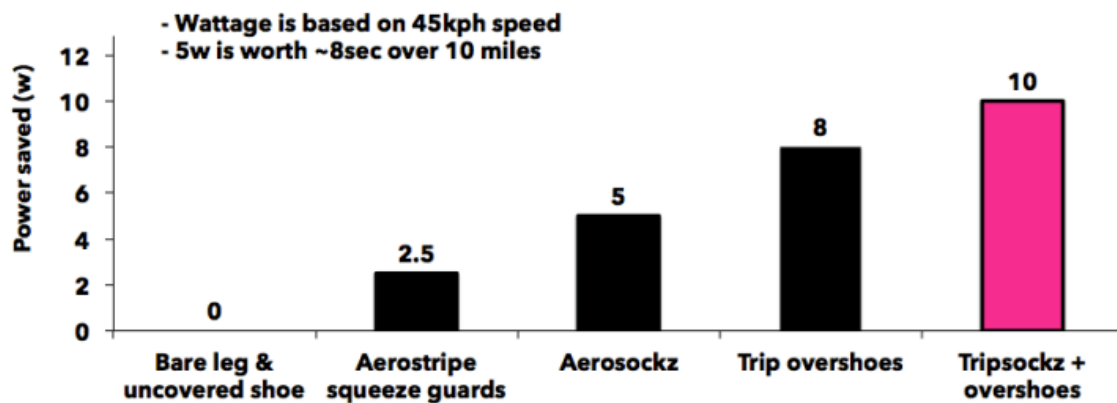
Triathletes can pair with Trip socks for a 10w saving as the trip socks continue higher than the overshoes to nearly knee height – hence why trip socks are not uci legal as breach maximum height requirements.

\*Pic below off NoPinz website shows them looking much bulkier and heavier weight than they actually are. They are actually very thin, light weight and highly breathable. I will try to get a better pic...



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### Average savings for leg aerodynamic options



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## So, what to get for huge savings;

- 1) Trip Suit and Trip overshoes =  $16 + 8 = 24$  watts.
- 2) Trip Suit and Aero Socks =  $16 + 4.5 = 20.5$ watts
- 3) Trip Suit and Speed Socks =  $16 + 2.5 = 18.5$ watts
- 4) Supersuit + Trip overshoes =  $10 + 8 = 18$  watts
- 5) Supersuit + Aero Socks =  $10 + 4.5 = 14.5$ watts.
- 6) Supersuit + Speed Socks =  $10 + 2.5 = 12.5$  watts.

Road race 2.0 expect similar to Supersuit especially if paired with aero stripe arm warmers.

Triathletes / Strava KOM & QOM'ing - 😊 Trip Suit + Trip Overshoes + Trip socks =  $16 + 10 = 26$ watts.

<https://www.nopin.com/>