

# quobba®

## NEXT LEVEL FIN DESIGN.

Quobba fins have been working on a radical and innovative new approach to fin design.

Our goal has been to substantially improve speed, control and responsiveness on powerfull waves and barrels.



# Why Quobba fins?

*"I really like the fins, especially in punchy beach breaks or powerful reef breaks. The base technology makes the fins and my board feel very powerful and I am able to push extremely hard and project forward. The wobble that the board can get from choppy conditions was stabilised from the fin technology."*

Kai Lenny.

*"I had memorable session where there were some good barrels and the fins really shined in the barrel, with the hold factor giving stability in critical, sucky sections. I am happy to report that Quobbas are part of my fin quiver now."*

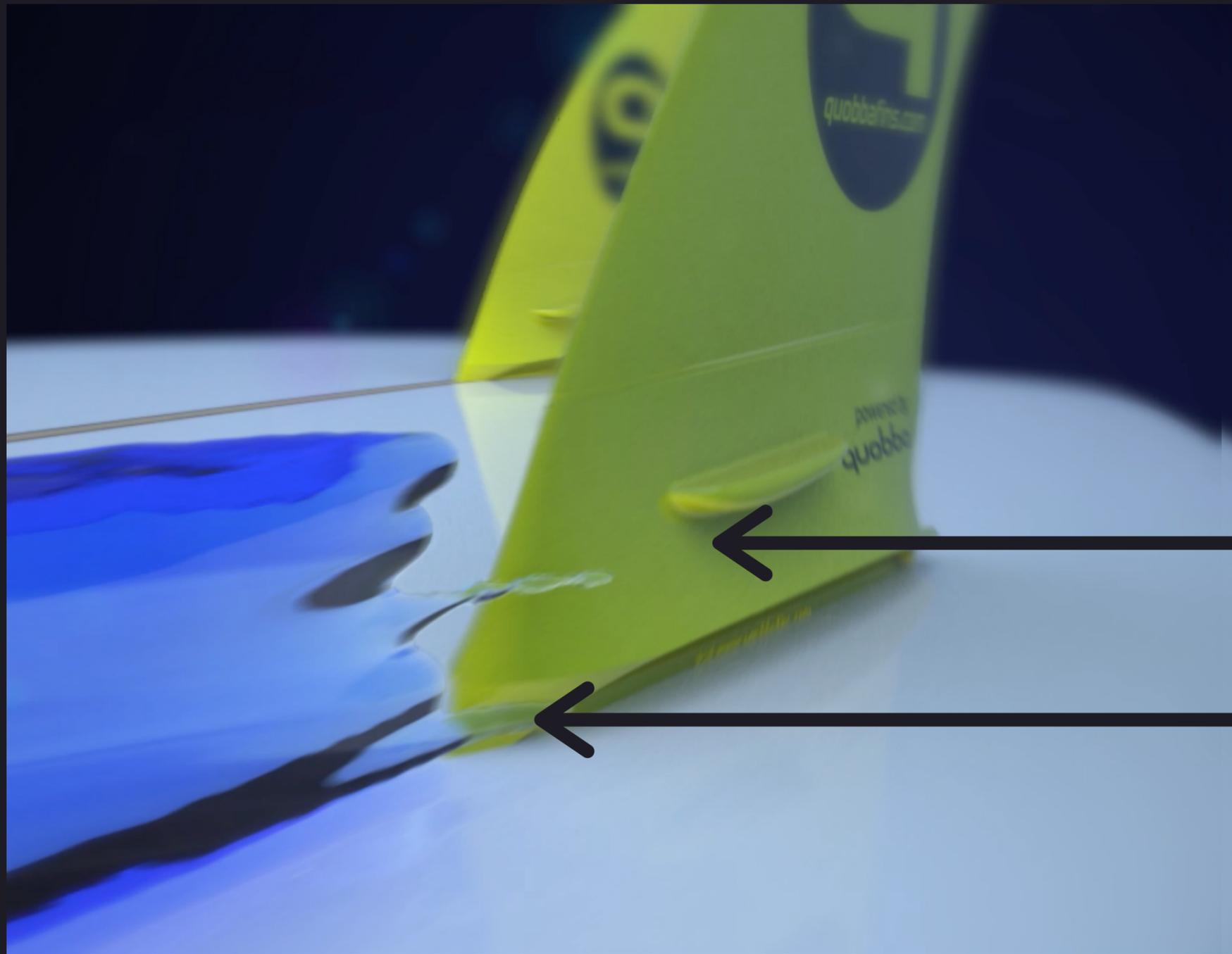
Dave Macaulay.

*"the drive and hold in the barrel is next level, makes easier to ride on the foam ball. The hold to do carvings is amazing, i can push it harder on turns then normal foil fins."*

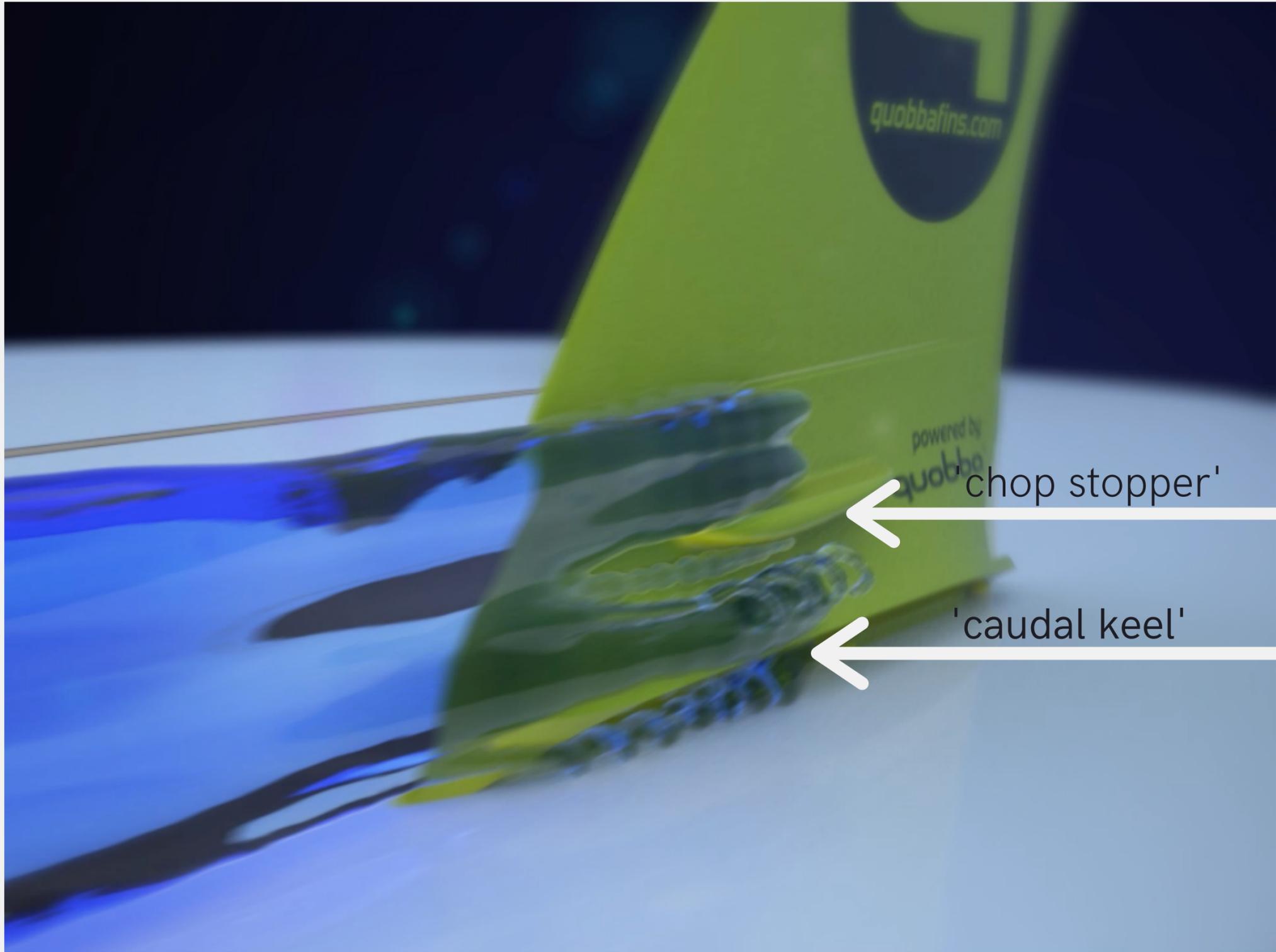
Jano Belo.



How it all works?



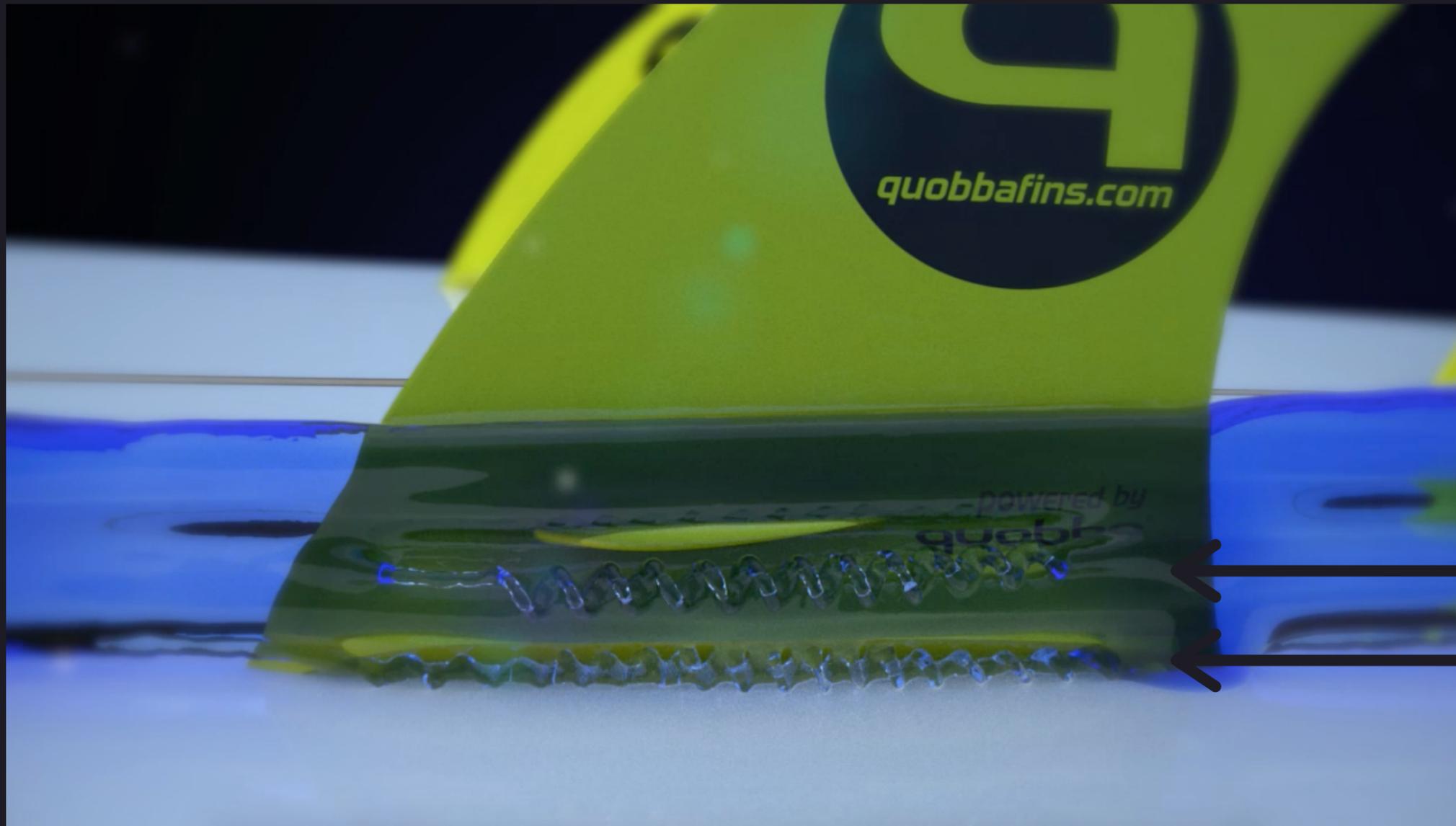
The water is pulled towards these two areas on the fin.



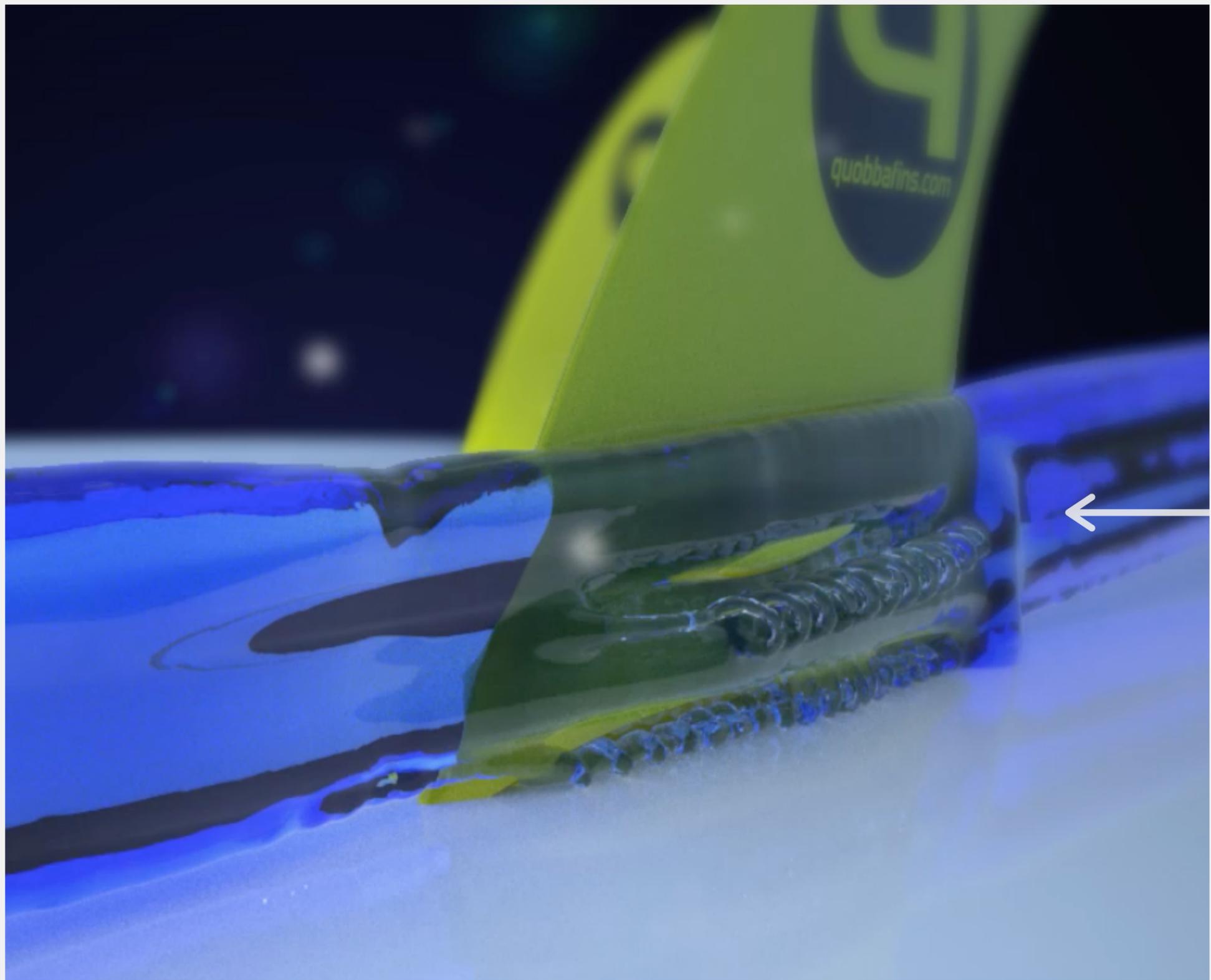
'chop stopper'

'caudal keel'

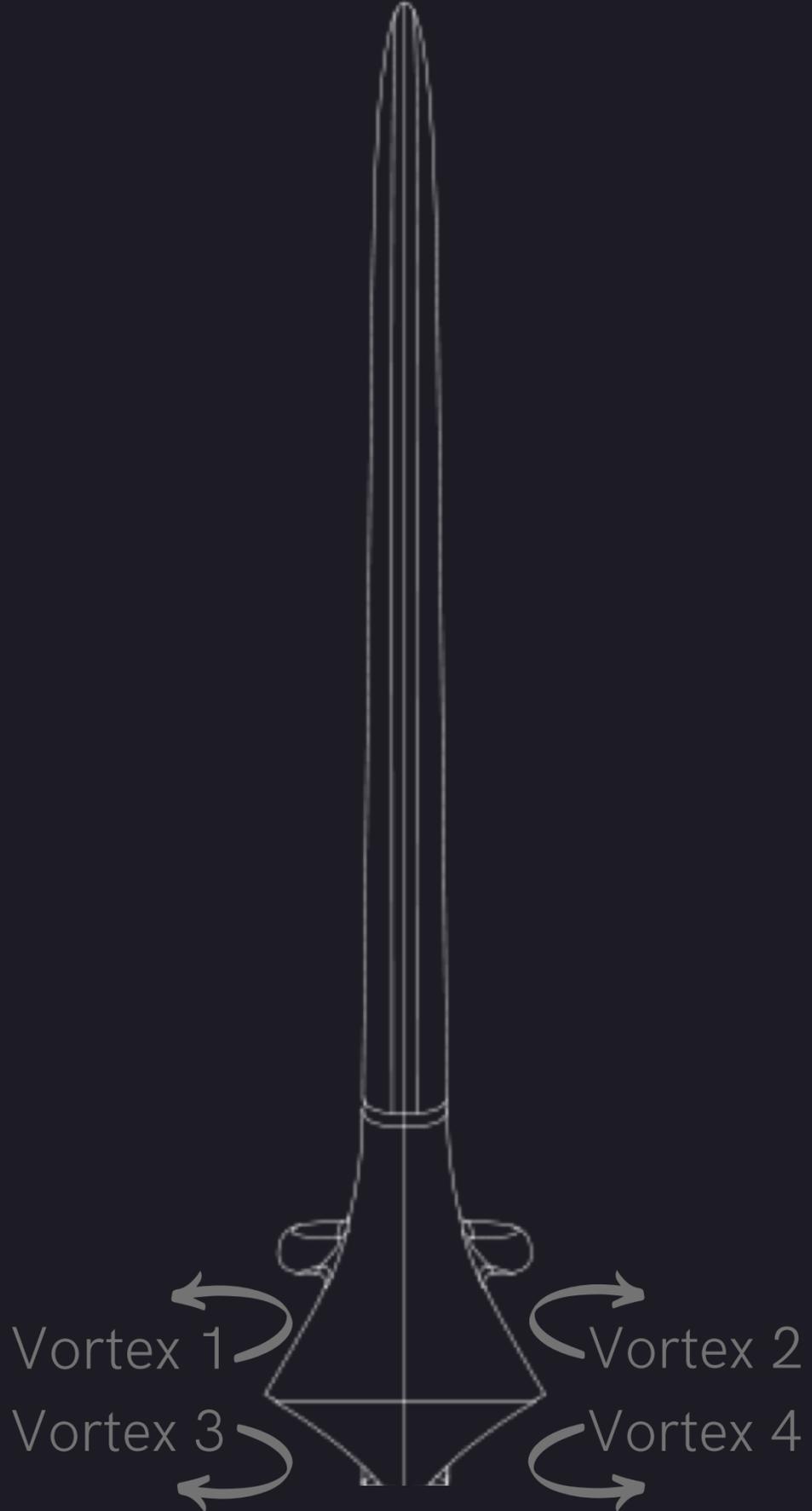
The water hits the 'chop stopper' and 'caudal keel' and starts to spin.



Two vortices  
are formed on each  
side of the fin.



As the water leaves the rear of the fin, the trailing vortice is lessened, thus reducing drag.



Quobba fins technology is all about increasing the vortices on the fin (gives lift), and reducing the trailing vortices.

Quobba say:

"Vortices on a foil or fin are gold" -*Give lift*-

"Vortices trailing a fin are poison" -*Cause drag*-

Why has Quobba changed the 'standard fin' design?



Computational Fluid  
Dynamics Investigation by  
Anthony Livanos.

*Faculty of Engineering  
University of W.A.*

On standard fins,  
approximately 80% of the  
trailing vortex drag is from the  
base of the fin, and not the  
tip, as previously thought.

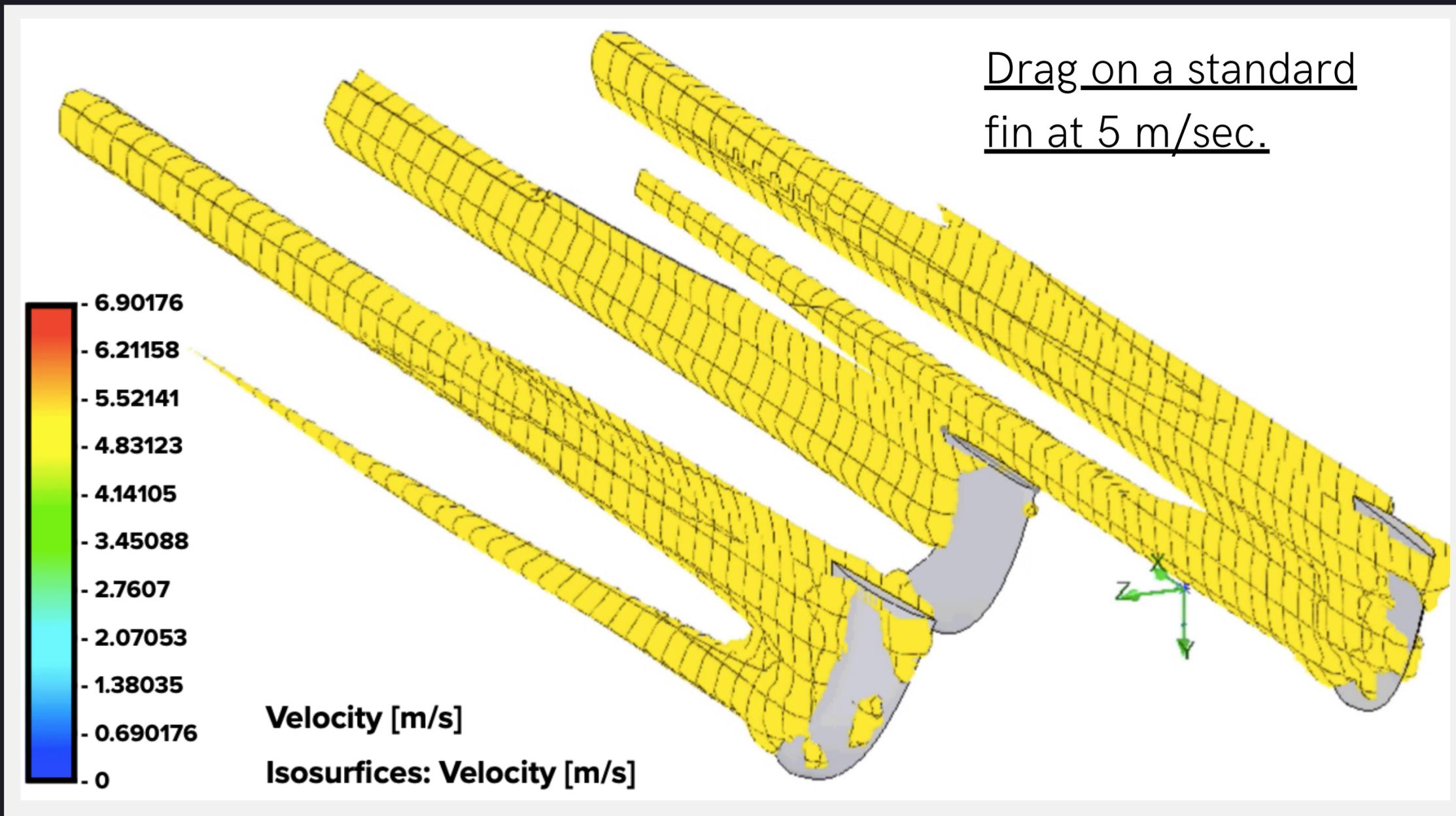


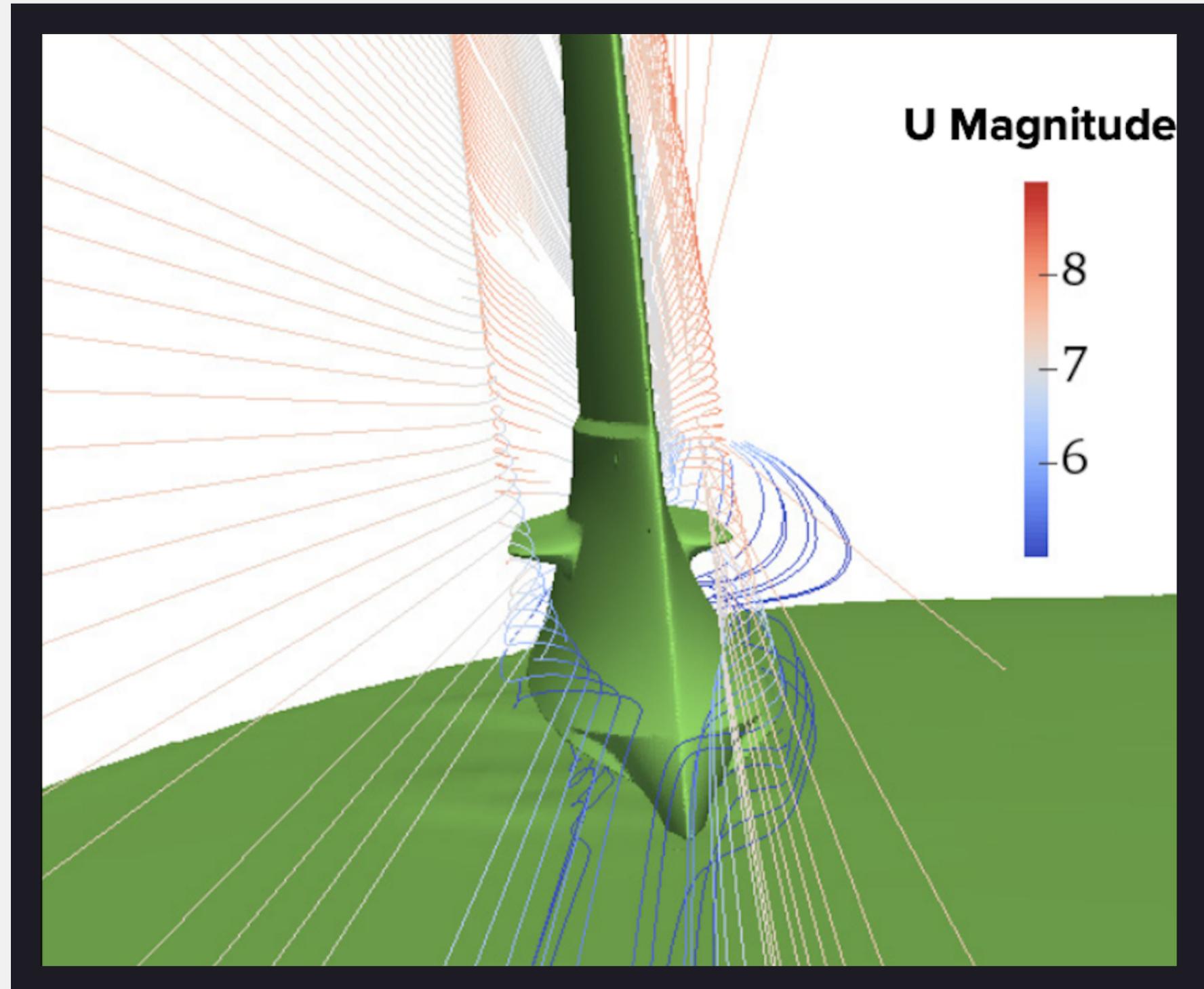
Figure 15. Velocity isosurfaces depicting the formation of trailing vortices.

CFD analysis by  
Aurora Offshore Engineering  
Pty Ltd ('Aurora')

Quobba Fins engaged 'Aurora' to compare a Quobba fin against a similar sized fin without Quobba technology.

Conclusion:

*"The results of the CFD modelling show a significant change in the flow of water immediately adjacent to the board and downstream of the fins. These flow changes are potential causes for the observed speed and stability increases for boards with Quobba fins technology."*



# Technical specifications

Q medium size ' Quobba Glass' series.



Q Plus large size ' Quobba Glass' series.



Medium	Side Fins	Rear Fin
Area	8928 mm <sup>2</sup>	8928 mm <sup>2</sup>
Height	113 mm	113 mm
Base	110 mm	110 mm
Weight	94 g	96 g
Foil	Flat (inside)	Symmetric

Large	Side Fins	Rear Fin
Area	10282.5 mm <sup>2</sup>	10282.5 mm <sup>2</sup>
Height	121 mm	121 mm
Base	113.25 mm	113.25 mm
Weight	100 g	102 g
Foil	Flat (inside)	Symmetric

\*Available in FCS & Futures configuration.



## What are Quobba fins 'Glass series' made from?

Quobba fins are made of Grivory, a patented glass fiber material created by a Swiss company. It's also known as 'metal replacement technology'.

Grivory GV-5H is a 50% glass-fibre reinforced engineering thermoplastic material based on a combination of semicrystalline Polyamide with partially aromatic copolyimide.

Grivory has exceptional characteristics and has been a revolutionary material used mainly in the marine and automotive industry, as well as mechanical engineering uses.

Quobba believe our revolutionary design technology success is due to our performance advantage, however, the grivory material we are using is a huge success also!

# Q medium compared to Q Plus Large



# Size comparison with conventional fins

- Quobba fins 'Glass series' medium are similar to AM 1
- Quobba fins 'Glass series' Q Plus large are similar to AM 2

# Marketing plan

- Photos and videos of our fins and riders.
  - Customized video for the shop.
  - Fins for team riders of the shop.
  - Graphic material for the shop.
- \*We are open to support your projects and campaigns.



Quobba fins are a premium surf hardware accessory.  
We are excited to work with you.

Please contact [info@quobbafins.com](mailto:info@quobbafins.com)



Quobbafins



Quobba fins