STONEWAYS VPRS

2024 Rating Certificate

Yacht	***Zelus***	Rig	***Bermudian Sloop***
Sail number	***IRL1540***	Design	***Cork 1720 OD***
TCC	***1.008***	Series / built	***1994***
TCC 2	*0.956 with no downwind H/S*	Crew limit	***6 people***

Performance indicators

Mainsail area	***24.79*** m^2	Mizzen / mizzen staysail area	***0.00*** m^2 / ***0.00*** m^2
Upwind headsail area	***17.10*** m^2	Displacement / length	***116***
Flying headsail area	***69.37*** m^2	Sail area / wetted surface	***3.20*** *(upwind sails)*
Spinnaker area	***0.00*** m^2	Sail area / displacement	***28.89*** *(upwind sails)*

Hull & appendages

				source
Hull Length	*LH*	***8.00***	*m*	*P*
Bow overhang	*BO*	***0.24***	*m*	*D*
Stern overhang	*SO*	***0.56***	*m*	*D*
Waterline length	*LWL*	***7.20***	*m*	*C*
Stern height	*Y*	***0.07***	*m*	*D*
Beam	*MB*	***2.41***	*m*	*P*
Topside overhang	*TSO*	***0.25***	*m*	*D*
Freeboard at mast	*FBI*	***0.80***	*m*	*D*
Draught	*T*	***1.61***	*m*	*P*
Empty weight	*EW*	***1350***	*kg*	*P*
Fixed ballast weight	*KW*	***630***	*kg*	*P*
Moveable ballast		***None***		
Keel type		***H2H5L1N1***		
Keel depth	*KD*	***1.39***	*m*	*P*
Keel chord	*KC*	***0.50***	*m*	*D*
Rudder type		***Transom hung***		
Rudder depth	*RD*	***1.22***	*m*	*D*
Rudder chord	*RC*	***0.30***	*m*	*D*
Propeller type		***None***		
Propeller blades	*PRN*			
Propeller diameter	*PRD*		*m*	

Mizzen staysail

Staysail luff length	*LLY*		*m*
Staysail luff perp	*LPY*		*m*

Flying headsail (downwind headsail)

FH luff length	*FHLU*	***12.95***	*m*	***P***
FH leech length	*FHLE*	***11.10***	*m*	***P***
FH half width	*FHHW*	***7.00***	*m*	***P***
FH foot width	*FHFL*	***6.75***	*m*	***P***
* **OR ...** Area	*FHA*		m^2	***C***

Rig

				source
Spar material		***Aluminium alloy***		
Forestay length	*FL*	***10.11***	*m*	*P*
Foretriangle base	*J*	***3.10***	*m*	*P*
Flying h/sail tack length	*FHTL*	***5.10***	*m*	*P*
Spinnaker pole length	*SPL*		*m*	*P*
Mainsail hoist	*P*	***10.00***	*m*	*P*
Mainsail outhaul	*E*	***4.04***	*m*	*P*
Boom above sheer	*BAS*	***1.00***	*m*	*E*
Mizzen hoist	*PY*		*m*	
Mizzen outhaul	*EY*		*m*	

Main sail

Half width	*MHW*	***2.78***	*m*	*P*
Three quarter width	*MTW*	***1.67***	*m*	*P*
Upper width	*MUW*	***0.91***	*m*	*P*
Construction		***Laminated***		
Reefing		***Slab***		

Upwind headsail

Luff length	*HLU*	***9.95***	*m*	*P*
Luff perpendicular	*HLP*	***3.19***	*m*	*P*
Half width	*HHW*	***1.79***	*m*	*P*
Three quarter width	*HTW*	***1.00***	*m*	*P*
Foot height	*HFH*	***0.02***	*m*	*E*
Construction		***Laminated***		
Reefing		***Change Sail***		

Spinnaker (downwind headsail)

* Luff length	*SLU*		*m*
* Leech length	*SLE*		*m*
* Half width	*SHW*		*m*
* Foot width	*SFL*		*m*
* **OR ...** Area	*SPA*		m^2

***Measurement source*: A**=Authenticated; **O**=Owner measured; **S**=Sister vessel; **P**=Published; **C**=Calculated

***System data source:* D**=Database derived; **E**=Estimated **TCC calculated** on 14/03/2024 at 15:29:47

IMPORTANT: ***see notes on page 2 for appropriate use and validity***

Certificate notes

1. Correct use of the published ratings

Multiply the elapsed time by the TCC to obtain corrected time.

The TCC is calculated for the declared sail plan, which may or may not include a downwind headsail. For boats without a downwind headsail the words "(no downwind H/S)" appear after the TCC.

Boats with a full sailplan also have a "TCC 2" which excludes all downwind headsails. Strictly this is for use only when racing in a class specifically for boats without downwind headsails..

If boats with and without downwind headsails race together, the boats without downwind sails will have an advantage on upwind legs, and a disadvantage off the wind.

2. Data quality

The fairest ratings will result from accurate measurement; ratings calculated using a significant amount of estimated and published data are far more likely to be out of line with expectations than those using measured and sister ship data. Owners must notify the rating office of any changes or errors in the rating data.

3. Applicability

This certificate is issued for the sole purpose of correcting elapsed times recorded in yacht races. It is not to be used for any other purpose.

4. Validity

Unless stated to the contrary, or superseded, this certificate is valid until the end of the calendar year in which it was issued. The validity can be checked by referring to the certificates published at: www.vprs.org/ratings.html

5. Additional information

6. Stability

An SSS base value provides a guide to the stability of a boat but does not guarantee safety or freedom of risk from capsize or sinking. The safety of a boat is the sole responsibility of the skipper who must ensure that the boat is fully found, thoroughly seaworthy, and operated by a crew sufficient in number and experience who are physically fit to face bad weather. The SSS base value does not constitute any warranty as to the seaworthiness of any boat or the safety of any gear and shall not limit the absolute responsibility of the skipper of the boat.

Guard rails fitted	No	
Dayboat	Yes	
SSS base value	**6**	Valid only for data on this certificate.