# STONEWAYS VPRS

# 2024 Rating Certificate

Yacht	Witch IV	,		Rig	Berm	ıdian Sloop		
Sail number	60			Design	Hawk	20		
тсс	0.808			Series / built	1993	/ 1995		
No spinnaker TCC	0.784			Crew limit	5	people		
•					0	people		
Performance indicatorsMainsail area13.59 $m^2$ Mizzen / mizzen staysail area0.00 $m^2$ /0.00 $m^2$								
Mainsail area	<b>13.59</b> m <sup>-</sup>		MI	zzen / mizzen staysail area		m² /	<b>0.00</b> m <sup>2</sup>	
Upwind headsail area	<b>7.49</b> m <sup>2</sup>			Displacement / length	207			
Flying headsail area	0.00 m	2		Sail area / wetted surface	2.38	(upwind sails)		
Spinnaker area	<b>20.88</b> m <sup>-</sup>	2		Sail area / displacement	19.28	(upwind sails)		
Hull & appendages			source	Rig			source	
Hull Length	LH	<b>6.10</b> m	Р	Spar material		Aluminiur	n alloy	
Bow overhang	BO	<b>0.70</b> m	Е	Forestay length	FL	<b>7.08</b> m	E	
Stern overhang	SO	<b>0.20</b> m	Е	Foretriangle base	J	<b>2.12</b> m	E	
Waterline length	LWL	<b>5.20</b> m	С	Flying h/sail tack length	FHTL	т	E	
Stern height	Y	<b>0.06</b> m	Е	Spinnaker pole length	SPL	<b>2.38</b> m	E	
Beam	MB	<b>2.26</b> m	Р	Mainsail hoist	Р	<b>8.05</b> m	E	
Topside overhang	TSO	<b>0.19</b> m	Е	Mainsail outhaul	E	<b>2.89</b> m	E	
Freeboard at mast	FBI	<b>0.60</b> m	Е	Boom above sheer	BAS	<b>0.78</b> m	E	
Draught	Т	<b>1.30</b> m	Р	Mizzen hoist	PY	т		
Empty weight	EW	<b>841</b> kg	Р	Mizzen outhaul	EY	т		
Fixed ballast weight	KW	<b>392</b> kg	Р	Main sail				
Moveable ballast		None		Half width	MHW	<b>1.85</b> m	S	
Keel type		Z4P1F1S2		Three quarter width	MTW	<b>1.06</b> m	S	
Keel depth	KD	<b>1.10</b> m	Е	Upper width	MUW	<b>0.59</b> m	S	
Keel chord	КС	<b>0.35</b> m	Е	Construction		Woven		
Rudder type		Transom H	lung	Reefing		Slab		
Rudder depth	RD	<b>0.80</b> m	Е	Upwind headsail				
Rudder chord	RC	<b>0.25</b> m	Е	Luff length	HLU	<b>6.24</b> m	S	
Propeller type		None		Luff perpendicular	HLP	<b>2.39</b> m	S	
Propeller blades	PRN			Half width	HHW	<b>1.20</b> m	S	
Propeller diameter	PRD	т		Three quarter width	HTW	<b>0.61</b> m	S	
Mizzen staysail				Foot height	HFH	<b>0.20</b> m	E	
Staysail luff length	LLY	т		Construction		Woven		
Staysail luff perp	LPY	т		Reefing		Change S	ail	
Flying headsail Spinnaker								
FH luff length	FHLU	т		* Luff length	SLU	<b>6.54</b> m	S	
FH leech length	FHLE	т		* Leech length	SLE	<b>6.54</b> m	S	
FH half width	FHHW	т		* Half width	SHW	<b>3.83</b> m	S	
FH foot width	FHFL	т		* Foot width	SFL	<b>3.91</b> m	S	
* OR Area	FHA	m²		* OR Area	SPA	m²		

Measurement source:A=Authenticated;O=Owner measured;S=Sister vessel;P=Published;C=CalculatedSystem data source:D=Database derived;E=EstimatedTCC calculated on 15/01/2024 at 10:02:22

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

# 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 (spinnaker). For boats without a downwind headsail the words "(no spinnaker)" appear after the TCC.

Boats with a full sailplan also have a "no spinnaker TCC" for use only when racing in a non-spinnaker class.

If spinnaker and non-spinnaker boats race together, non-spinnaker boats 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

Empty weight includes outboard which must be carried when racing.

# 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	3	Valid only for data on this certificate.