STONEWAYS VPRS

Rating Certificate

Yacht	Avalanche	Rig	Bermudian Sloop
Sail number	GBR541	Design	X 119
TCC	1.019	Series / built	1989 / 1989
TCC 2	0.978 with no downwind H/S	Crew limit	9 people

Performance indicators

Mainsail area	46.71 m ²	Mizzen / mizzen staysail area	0.00	m ² /		0.00 m	1 ²
Upwind headsail area	27.76 m ²	Displacement / length	182				
Flying headsail area	98.09 m ²	Sail area / wetted surface	2.66	(upwind sa	ils)		
Spinnaker area	0.00 m^2	Sail area / displacement	20.93	(upwind sa	ils)		

Hull & appendages			source
Hull Length	LH	11.99 n	n A
Bow overhang	ВО	0.83 n	n A
Stern overhang	SO	1.35 n	n A
Waterline length	LWL	9.81 n	n A
Stern height	Y	0.23 r	m A
Beam	MB	3.34 r	m A
Topside overhang	TSO	0.30 n	n O
Freeboard at mast	FBI	1.13 n	n E
Draught	T	2.03 r	n A
Empty weight	EW	5760 k	rg A
Fixed ballast weight	KW	2200 k	g P
Moveable ballast		None	
Keel type		R1R1R	2B1
Keel depth	KD	1.52 r	n A
Keel chord	KC	1.30 r	n A
Rudder type		Spade	
Rudder depth	RD	1.54 r	n A
Rudder chord	RC	0.59 r	n A
Propeller type		Folding	g
Propeller blades	PRN	2	
Propeller diameter	PRD	0.41 r	n A

Bow overhang	ВО	0.83	m	Α
Stern overhang	SO	1.35	m	Α
Waterline length	LWL	9.81	m	Α
Stern height	Y	0.23	m	Α
Beam	MB	3.34	m	Α
Topside overhang	TSO	0.30	m	0
Freeboard at mast	FBI	1.13	m	E
Draught	T	2.03	m	Α
Empty weight	EW	5760	kg	Α
Fixed ballast weight	KW	2200	kg	P
Moveable ballast		None		
Keel type		R1R1I	R2B1	
Keel depth	KD	1.52	m	Α
Keel chord	KC	1.30	m	Α
Rudder type		Spade	9	
Rudder depth	RD	1.54	m	Α
Rudder chord	RC	0.59	m	Α
Propeller type		Foldir	ng	
Propeller blades	PRN	2		
Propeller diameter	PRD	0.41	m	Α
	Stern overhang Waterline length Stern height Beam Topside overhang Freeboard at mast Draught Empty weight Fixed ballast weight Moveable ballast Keel type Keel depth Keel chord Rudder type Rudder depth Rudder chord Propeller type	Stern overhang SO Waterline length LWL Stern height Y Beam MB Topside overhang TSO Freeboard at mast FBI Draught T Empty weight EW Fixed ballast weight KW Moveable ballast Keel type Keel depth KD Keel chord KC Rudder type Rudder depth RD Rudder chord RC Propeller type Propeller blades PRN	Stern overhang SO 1.35 Waterline length LWL 9.81 Stern height Y 0.23 Beam MB 3.34 Topside overhang TSO 0.30 Freeboard at mast FBI 1.13 Draught T 2.03 Empty weight EW 5760 Fixed ballast weight KW 2200 Moveable ballast None Keel type R1R11 Keel depth KD 1.52 Keel chord KC 1.30 Rudder type Spade Rudder depth RD 1.54 Rudder chord RC 0.59 Propeller type Foldir Propeller blades PRN 2	Stern overhang SO 1.35 m Waterline length LWL 9.81 m Stern height Y 0.23 m Beam MB 3.34 m Topside overhang TSO 0.30 m Freeboard at mast FBI 1.13 m Draught T 2.03 m Empty weight EW 5760 kg Fixed ballast weight KW 2200 kg Moveable ballast None Keel type R1R1R2B1 Keel depth KD 1.52 m Keel chord KC 1.30 m Rudder type Spade Rudder depth RD 1.54 m Rudder chord RC 0.59 m Propeller type Folding Propeller blades PRN 2

Mizzen staysail			
Staysail luff length	LLY	m	
Staysail luff perp	LPY	m	

Flying headsail (downwind headsail)					
FH Iu	ıff length	FHLU	m		
FH leed	ch length	FHLE	m		
FH h	alf width	FHHW	m		
FH fo	oot width	FHFL	m		
* OR	Area	FHA	98.09 m ²	Α	

Rig				source
Spar material		Alum	iniur	n alloy
Forestay length	FL	14.55	m	Α
Foretriangle base	J	4.30	m	Α
Flying h/sail tack length	FHTL	6.10	m	Α
Spinnaker pole length	SPL		m	
Mainsail hoist	P	15.00	m	Α
Mainsail outhaul	E	5.30	m	Α
Boom above sheer	BAS	1.50	m	E
Mizzen hoist	PY		m	
Mizzen outhaul	EY		m	

Main sail			
Half width	MHW	3.40 m	Α
Three quarter width	MTW	2.00 m	Α
Upper width	MUW	1.11 m	Α
Construction		Laminated	
Reefing		Slab	

Upwind headsail			
Luff length	HLU	13.37 m	Α
Luff perpendicular	HLP	4.08 m	Α
Half width	HHW	2.09 m	Α
Three quarter width	HTW	1.09 m	Α
Foot height	HFH	0.45 m	0
Construction		Laminated	
Reefing	Change Sail		

Spinnaker (downwind headsail)				
* Lu	ff length	SLU	m	
* Leed	h length	SLE	m	
* H	alf width	SHW	m	
* Fo	oot width	SFL	m	
* OR	Area	SPA	m²	

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 28/05/2024 at 18:12:55

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.

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

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 Yes

Dayboat No

SSS base value 32 Valid only for data on this certificate.