## STONEWAYS VPRS

# Rating Certificate

Yacht	Mahu Hau	Rig	Bermudian Sloop
Sail number	GBR3955L	Design	Beneteau First 211
TCC	0.841	Series / built	1999 / 2004
TCC 2	0.802 with no downwind H/S	Crew limit	5 people

<b>Performance</b>	indicators
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Mainsail area	13.91 m <sup>2</sup>	Mizzen / mizzen staysail area	0.00	m <sup>2</sup> /		0.00	m²
Upwind headsail area	<b>10.73</b> m <sup>2</sup>	Displacement / length	184				
Flying headsail area	$0.00 m^2$	Sail area / wetted surface	2.19	(upwind sa	ils)		
Spinnaker area	31.91 $m^2$	Sail area / displacement	19.38	(upwind sa	ils)		

Hull & appendages			source
Hull Length	LH	<b>6.20</b> m	P
Bow overhang	ВО	<b>0.15</b> m	E
Stern overhang	SO	<b>0.05</b> m	E
Waterline length	LWL	<b>6.00</b> m	P
Stern height	Υ	<b>0.01</b> m	E
Beam	MB	<b>2.48</b> m	P
Topside overhang	TSO	<b>0.21</b> m	E
Freeboard at mast	FBI	<b>0.90</b> m	E
Draught	T	<b>1.80</b> m	P
Empty weight	EW	<b>1100</b> kg	P
Fixed ballast weight	KW	<b>350</b> kg	P
Moveable ballast		None	
Keel type		Z4P1R1S1	
Keel depth	KD	<b>1.58</b> m	E
Keel chord	KC	<b>0.40</b> m	E
Rudder type		Twin spade	
Rudder depth	RD	<b>0.64</b> m	E
Rudder chord	RC	<b>0.29</b> m	E
Propeller type		None	
Propeller blades	PRN		
Propeller diameter	PRD	т	

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Propeller diameter	PRD	m	

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

Flying headsa	il (downy	wind heads	sail)	
FH Iu	ıff length	FHLU	m	
FH leed	ch length	FHLE	m	
FH h	alf width	FHHW	m	
FH foot width		FHFL	m	
* OR	Area	FHA	m²	

Rig				source
Spar material		Alumi	niur	n alloy
Forestay length	FL	8.92	m	E
Foretriangle base	J	2.40	m	P
Flying h/sail tack length	FHTL		m	P
Spinnaker pole length	SPL	2.67	m	P
Mainsail hoist	P	8.24	m	P
Mainsail outhaul	E	2.85	m	P
Boom above sheer	BAS	0.82	m	E
Mizzen hoist	PY		m	
Mizzen outhaul	EY		m	

Main sail			
Half width	MHW	<b>1.85</b> m	Ε
Three quarter width	MTW	<b>1.08</b> m	E
Upper width	MUW	<b>0.63</b> m	E
Construction		Laminated	
Reefing		Slab	

Upwind headsail			
Luff length	HLU	<b>8.29</b> m	0
Luff perpendicular	HLP	<b>2.59</b> m	0
Half width	HHW	<b>1.29</b> m	0
Three quarter width	HTW	<b>0.65</b> m	0
Foot height	HFH	<b>0.15</b> m	0
Construction		Woven	
Reefing		Roller	

Spinnaker (downwind headsail)						
* Lu	uff length	SLU	<b>8.62</b> m	0		
* Leed	ch length	SLE	<b>8.62</b> m	0		
* ⊢	lalf width	SHW	<b>4.49</b> m	0		
* F	oot width	SFL	<b>4.34</b> m	0		
* 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 17/04/2024 at 09:44:28

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** 5 Valid only for data on this certificate.