

Yacht	Merlin of Rhu	Rig	Bermudian Sloop
Sail number	GBR1490L	Design	Arcona 400
TCC	0.987 (no spinnaker)	Series / built	2001
No spinnaker TCC		Default crew limit	10 people

Performance indicators

Mainsail area	49.97 m ²	Sailing weight	8796 kg
Mizzen area	m ²	Displacement / length	175 (sailing weight)
Upwind headsail area	33.75 m ²	Sail area / wetted surface	2.45 (main + u/w headsail)
D/wind headsail area	m ²	Sail area / displacement	19.96 (main + u/w headsail)

Hull

			source
Hull Length	LH	12.00 m	D
Bow overhang	BO	0.51 m	D
Stern overhang	SO	0.56 m	D
Waterline length	LWL	10.93 m	C
Stern height	Y	0.10 m	D
Beam	MB	3.79 m	D
Topside overhang	TSO	0.26 m	D
Freeboard at mast	FBI	1.15 m	D
Draught	T	2.10 m	P
Empty weight	EW	7610 kg	P
Fixed ballast weight	KW	2700 kg	E
Moveable ballast		None	

Rig

			source
Spar material		Aluminium alloy	
Forestay length	FL	16.60 m	D
Foretriangle base	J	4.25 m	D
Mainsail hoist	P	15.35 m	D
Mainsail outhaul	E	5.50 m	D

Main sail

Half width	MHW	3.57 m	D
Three quarter width	MTW	2.09 m	D
Upper width	MUW	1.20 m	D
Construction		Woven	
Reefing		Slab	

Upwind headsail

Luff length	HLU	15.90 m	D
Luff perpendicular	HLP	4.25 m	D
Half width	HHW	2.12 m	D
Three quarter width	HTW	1.06 m	E
Foot height	HFH	0.20 m	E
Construction		Woven	
Reefing		Change Sail	

Downwind headsail

Tack type		None	
Pole / tack length	STL	m	
* Luff length	SLU	m	
* Leech length	SLE	m	
* Half width	SHW	m	
* Foot width	SFL	m	
* OR ... Area	SPA	m ²	

Appendages & propeller

Keel type		H2H5R1N1	
Keel depth	KD	1.58 m	D
Keel chord	KC	1.42 m	D
Rudder type		Spade	
Rudder depth	RD	1.63 m	D
Rudder chord	RC	0.49 m	D
Propeller type		Folding	
Propeller blades	PRN	2	
Propeller diameter	PRD	0.41 m	E

Mizzen

Mizzen hoist	PY	m	
Mizzen foot	EY	m	
Staysail luff length	LLY	m	
Staysail luff perp	LPY	m	

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 16/10/2023 at 18:50:56

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 (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

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	38	Valid only for data on this certificate.