## STONEWAYS VPRS

# Rating Certificate

Yacht	Midnight Express	Rig	Bermudian Sloop
Sail number	GBR2717L	Design	Dehler 32
тсс	0.973	Series / built	2009 / 2011
TCC 2	0.920 with no downwind H/S	Crew limit	8 people

#### **Performance indicators**

Mainsail area	<b>32.11</b> m <sup>2</sup>	Mizzen / mizzen staysail area	<b>0.00</b> m <sup>2</sup>	2 /	0.00 m <sup>2</sup>
Upwind headsail area	<b>24.70</b> m <sup>2</sup>	Displacement / length	171		
Flying headsail area	<b>0.00</b> $m^2$	Sail area / wetted surface	<b>2.40</b> (up	owind sails	;)
Spinnaker area	<b>89.01</b> m <sup>2</sup>	Sail area / displacement	<b>18.41</b> (up	owind sails	;)

Hull & appendages			source
Hull Length	LH	<b>9.80</b> m	D
Bow overhang	ВО	<b>0.13</b> m	Α
Stern overhang	SO	<b>0.22</b> m	Α
Waterline length	LWL	<b>9.45</b> m	С
Stern height	Υ	<b>0.03</b> m	Α
Beam	MB	<b>3.25</b> m	D
Topside overhang	TSO	<b>0.33</b> m	D
Freeboard at mast	FBI	<b>1.20</b> m	D
Draught	T	<b>1.76</b> m	D
Empty weight	EW	<b>4645</b> kg	Α
Fixed ballast weight	KW	<b>1480</b> kg	P
Moveable ballast		None	
Keel type		R2R2R1N1	
Keel depth	KD	<b>1.33</b> m	D
Keel chord	KC	<b>1.01</b> m	D
Rudder type		Spade	
Rudder depth	RD	<b>1.50</b> m	D
Rudder chord	RC	<b>0.42</b> m	D
Propeller type		Folding	
Propeller blades	PRN	2	
Propeller diameter	PRD	<b>0.38</b> m	0

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

Flying headsail (downwind headsail)				
FH It	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		Aluminium	alloy
Forestay length	FL	<b>13.15</b> m	0
Foretriangle base	J	<b>3.60</b> m	0
Flying h/sail tack length	FHTL	m	
Spinnaker pole length	SPL	<b>4.20</b> m	0
Mainsail hoist	P	<b>12.67</b> m	0
Mainsail outhaul	E	<b>4.55</b> m	0
Boom above sheer	BAS	<b>1.27</b> m	E
Mizzen hoist	PY	m	
Mizzen outhaul	FY	m	

Main sail			
Half width	MHW	<b>2.71</b> m	Α
Three quarter width	MTW	<b>1.49</b> m	Α
Upper width	MUW	<b>0.81</b> m	Α
Construction		Laminated	
Reefing		Slab	

Upwind headsail			
Luff length	HLU	<b>12.56</b> m	Α
Luff perpendicular	HLP	<b>3.96</b> m	Α
Half width	HHW	<b>1.95</b> m	Α
Three quarter width	HTW	<b>0.98</b> m	Α
Foot height	HFH	<b>0.20</b> m	E
Construction		Laminated	
Reefing		Change Sail	
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Spinnaker (downwind headsail)						
* Lu	iff length	SLU	14.50	m	Α	
* Leed	h length	SLE	14.50	m	Α	
* H	alf width	SHW	7.43	m	Α	
* Fc	oot width	SFL	7.26	m	Α	
* 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 17/05/2024 at 17:25:23

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** 27 Valid only for data on this certificate.