6

INTERNATIONAL SIX METRE CLASS

Yacht's Name	***St Kitts***		
National Letters & Sail Number	***GBR 88***	**Fleet**	***OPEN***
Designer	*Ian Howlett*	**Design Year**	*1987*
Builder	*Elephant Boatyard*	**Build Year**	*1987*
Owner	*Robin Richardson*	**World Sailing Building Plaque no.** (If built after 1 Jan 1991)	*n/a*

RATING CERTIFICATION

This yacht has been measured by the measurer(s) noted below, who is(are) approved by the yacht's Member National Authority (MNA) or by ISMA, to certify that it has been found to rate not more than 6.000:

Dated (certification start date)	*16/08/2023*
Measured by	***David Chivers/Adam Parry***
On Behalf of MNA	***RYA***
Valid until	*15/08/2027*
Supersedes	*24/04/2016*
Place & Time of Measurements	***Burseldon***
Conditions at Flotation (wind, water & ten	***Light wind with flat water***
SG (specific gravity) **of Water at Flotation**	*1.025* kg/m³
Any correction applied to flotation/freeboards due to conditions (mm)	*0* (Salt Water 1.025 kg/m³ & Immersion in salt/fresh water = 0.012m)
Loadcell details/calibration	***RYA Certified Loadcell***

Stamp of MNA (or ISMA):

RYA TECHNICAL

MNA (or ISMA) signature:

RATING CALCULATION

OVERALL LENGTH		10.463	**10.463**
Overhang Forward to L1	1.202		
Overhang Aft to L1	1.648		
Total Overhang (Subtract)	2.850		
MEASURED LENGTH (L1 to L1)		**7.613**	
Girth at Bow	0.785		
Twice vertical Height at Bow (Subtract)	0.600		
O at Bow	0.185		
Add 1 1/2 O at Bow (min 0.270 m)		**0.277**	
Girth at Stern	2.175		
Twice vertical Height at Stern (Subtract)	1.174		
O at Stern	1.001		
Add 1/3 O at Stern (min 0.200 m)		**0.333**	
Add any penalty at O2 (see Rule 3. Length - only for boats after 1 Nov 1970)		**0.000**	
Add any Beam and/or Displacement Penalty			
CORRECT LENGTH L (Sum of L1 Length and O Bow/Stern Girth Corrections)			**8.223**
Skin d to d1 Port	1.830		
Chain d to d1 Port	1.830		
d Port	0.000	0.000	
Skin d to d1 Starboard	1.834		
Chain d to d1 Starboard	1.834		
d Starboard	0.000	0.000	
Add d		0.000	
GIRTH MIDSHIP DIFFERENCES (2d)		**0.000**	
RATED LENGTH (Sum of Correct Length and Midship Girth Differences 2d)			**8.223**

(Calc. only nec. for boats after 1 Nov 1970)	Actual	Calc.
Mean Freeboard Bow O	0.849	0.843
Mean Freeboard Midship d	0.703	0.703
Mean Freeboard Stern O	0.677	0.677
Sum of Freeboards		2.223

Classic Immersion Marks d Freeboard (only for Classic Appendix A boats)	**n/a**		
Subtract F, ½ FREEBOARD (max 0.730)	0.741	**0.730**	**7.493**
Add Square root of TOTAL RATED SAIL AREA		**6.728**	
TOTAL OF MEASUREMENTS			**14.221**
Add any Tumblehome and/or Draught Penalty		0.000	**14.221**
RATING Calculation - Total of Measurements (max 14.222)/2.37 (= not more than 6.000)			**6.000**

PENALTIES

Overhang Forward to L (LWL)	1.487		
Overhang Aft to L (LWL)	1.843		
Subtract from overall length		3.330	
Add any increase to Aft L location due to Projections, Notches or Hollows		0.000	
(see Measurement Instructions M18 & M20, including for rudder flaps extending aft further than CL of rudder stock axis)			
WATERLINE LENGTH (LWL)			**7.133**
Minimum Displacement for Zero Penalty [m^3] (0.2*LWL+0.15)^3		3.914	
Minimum Weight for Zero Penalty [metric tons] (water of sg 1.025 tonne/m^3)		4.011	
DISPLACEMENT **WEIGHT [metric tons] (actual including added ballast)**			**4.095**
Equivalent LWL for Zero Penalty ((weight/1.025)$\sqrt[3]{}$-0.15)/0.2)		7.180	
Difference		0.000	
DISPLACEMENT PENALTY (add 2x to L)			**0.000**
BEAM (minimum beam at ⅓ of midship freeboard)		1.830	
Actual beam at ⅓ of midship freeboard		2.028	
Difference (if positive)		0.000	
BEAM PENALTY (add 4x to L, only for yachts laid down after Sept 1937)			**0.000**
TUMBLEHOME (max 2x 2% of Extreme Beam)		0.080	
Extreme Beam		2.028	
Beam at deck		2.028	
Difference (if positive)		0.000	
TUMBLEHOME PENALTY (add 3x excess to Rating)			**0.000**
DRAUGHT (actual at deepest point) **keel, rudder or wing tips (span not to exceed 1830mm)**		1.631	
Maximum Draught for Zero Penalty (0.16*LWL+0.5)		1.641	
Difference (if positive)		0.000	
DRAUGHT PENALTY (add 3x excess to Rating)			**0.000**

SAIL PLAN

					(max 9.750m)
Maximum Height of Sail Plan (max 13.000m above datu	13.000	**J**	3.490	**I**	9.740
Boom Height (min 400 to 1100mm from datum)	0.740	**A**	12.400	**B**	4.945
Foretraingle area (max (J or spin boom)xI/2)	17.191		Rated Mainsail Area (AxB/2)		**30.659**
Rated Foretriangle Area (85% of measured area)	**14.612**		Total Rated Sail Area (S)		**45.271**
				√S	**6.728**

Spinnaker boom (length in extension to outer end from fwd face of the mast)	3.530	110% J	3.839

Sail Limits

Mainsail	Max girth at 1/2 height (MHW 67%	**3.313**	Max girth at 3/4 height (MTW 39%)	**1.928**
Genoa	Max foot length (HFL J + 3.000m	**6.490**		
Spinnaker	Max luff SLU/leech SLE length (80% of √J+√I +2.500m)	**10.777**	Max foot breadth (SFL 250% J)	**8.725**

SPARS MEASUREMENTS

MAST CG from datum point (90mm above sheer) — Mast Weight (min 63.51kg) — Material

(CG position min 4.940m above datum) — Aluminium

	Deck (min 132.7cm²)	1/2 Height (min 147.4cm²)	Forestay (min 95cm²)	Head (min 37.4cm²)
MAST dimensions **[mm]**				
MAST sectional area **[cm²]**				
MAST section ratio **[max 1.35]**	#VALUE!	#VALUE!	#VALUE!	#VALUE!

Builder & Yr

DECK MEASUREMENTS

		Length	Aft width	Fwd width	Area m²	Distance to sheer
Cockpit dimensions:	fwd (or single) cockpit				0.000	
(max 2.700m² &	fwd keyhole				0.000	Total Area m²
sheer distance min 200mm)	aft keyhole				0.000	**0.000**
Hatch dimensions (max 0.400m² & sheer min 300mm)					**0.000**	Distance to sheer

NOTES & COMMENTS:

(include as many details as possible & all comments on measurements and/or conditions)
Eg.
Anchor just behind mast under floor boards
Re weight and floated Elephant boat yard
B amended to 4.945
J amended to 3.490